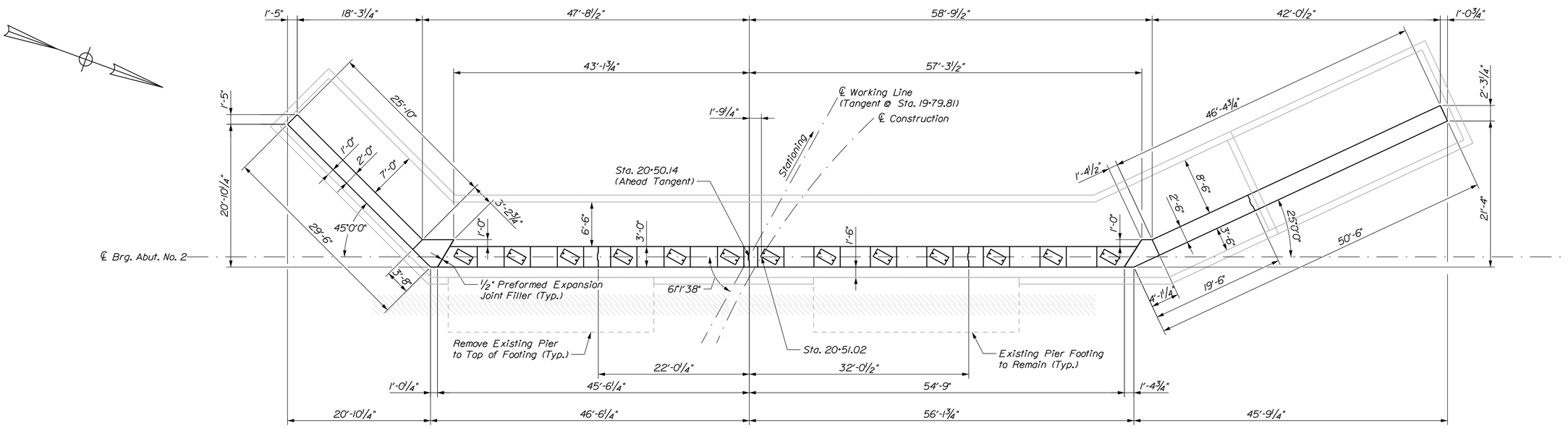
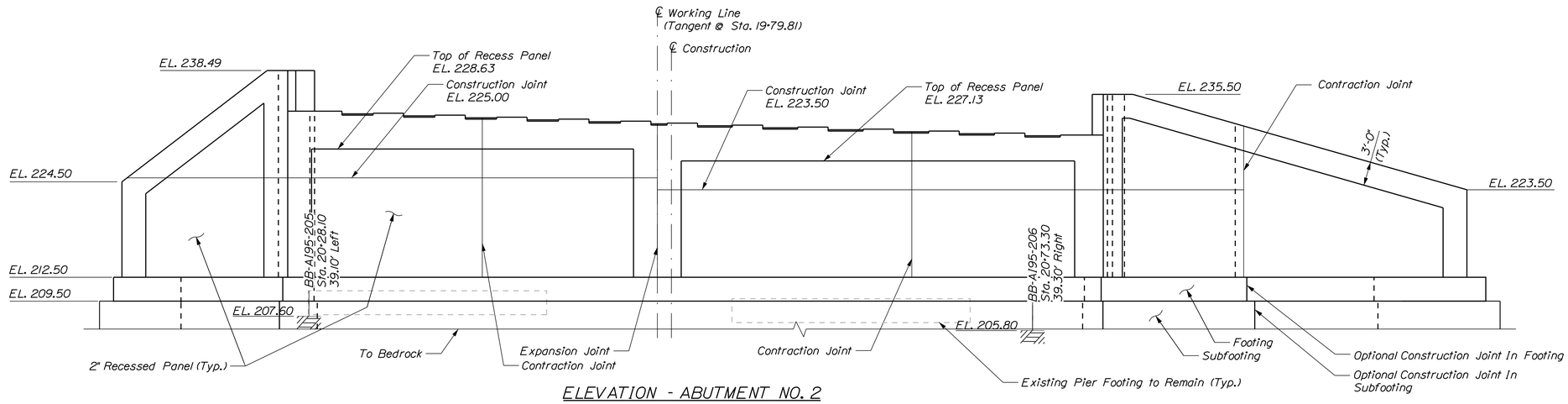


PLAN - ABUTMENT NO. 2

Curved Girder Alternate Bearing Seat Shown.
See Beam Seat Details for More Information



ELEVATION - ABUTMENT NO. 2

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS

WIN 21672.00

BRIDGE NO. 5808

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	SW	JUNE 2023	
CHECKED-REVIEWED	TEK	JUNE 2023	
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

P.E. NUMBER

SIGNATURE

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

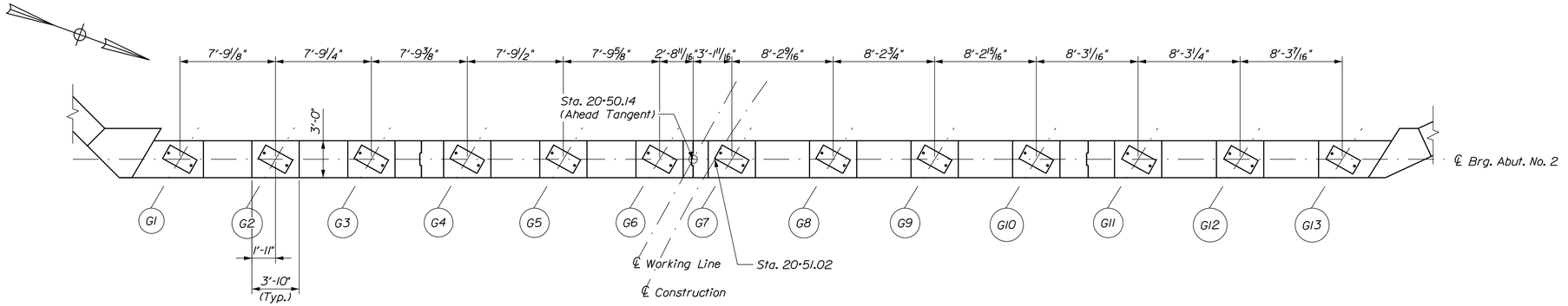
ABUTMENT NO. 2
PLAN AND ELEVATION

SHEET NUMBER

101

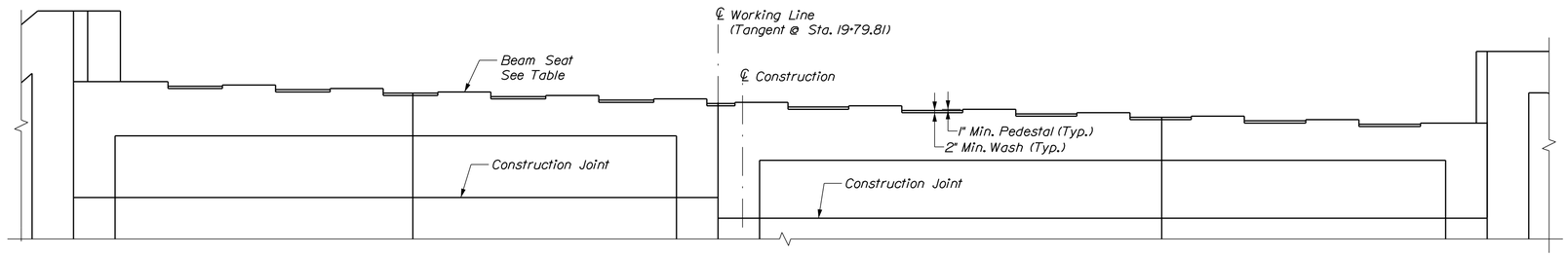
OF 190

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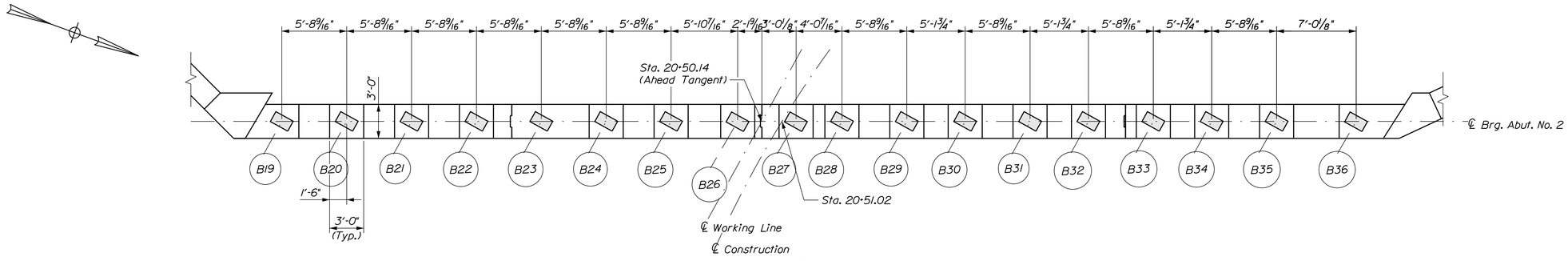
PLAN

BEAM SEAT ELEVATIONS	
G1	233.38
G2	233.13
G3	232.88
G4	232.62
G5	232.37
G6	232.12
G7	231.93
G8	231.66
G9	231.39
G10	231.12
G11	230.85
G12	230.59
G13	230.32



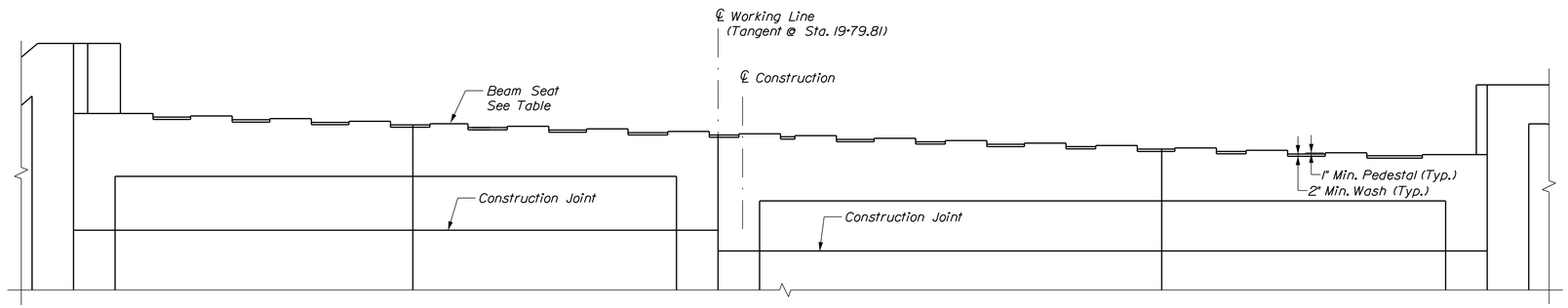
ELEVATION

ABUTMENT 2 - BEAM SEAT DETAILS - CURVED GIRDER ALTERNATE



PLAN

BEAM SEAT ELEVATIONS	
B19	233.43
B20	233.25
B21	233.06
B22	232.88
B23	232.69
B24	232.51
B25	232.32
B26	232.13
B27	231.96
B28	231.83
B29	231.64
B30	231.48
B31	231.29
B32	231.12
B33	230.94
B34	230.77
B35	230.59
B36	230.46



ELEVATION

ABUTMENT 2 - BEAM SEAT DETAILS - PBU ALTERNATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

P.E. NUMBER
DATE
SIGNATURE

	BY	DATE
PROJ. MANAGER	D. EATON	
DESIGN-DETAILED	SW	JUNE 2023
CHECKED-REVIEWED	TEK	JUNE 2023
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
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REVISIONS 4		
FIELD CHANGES		

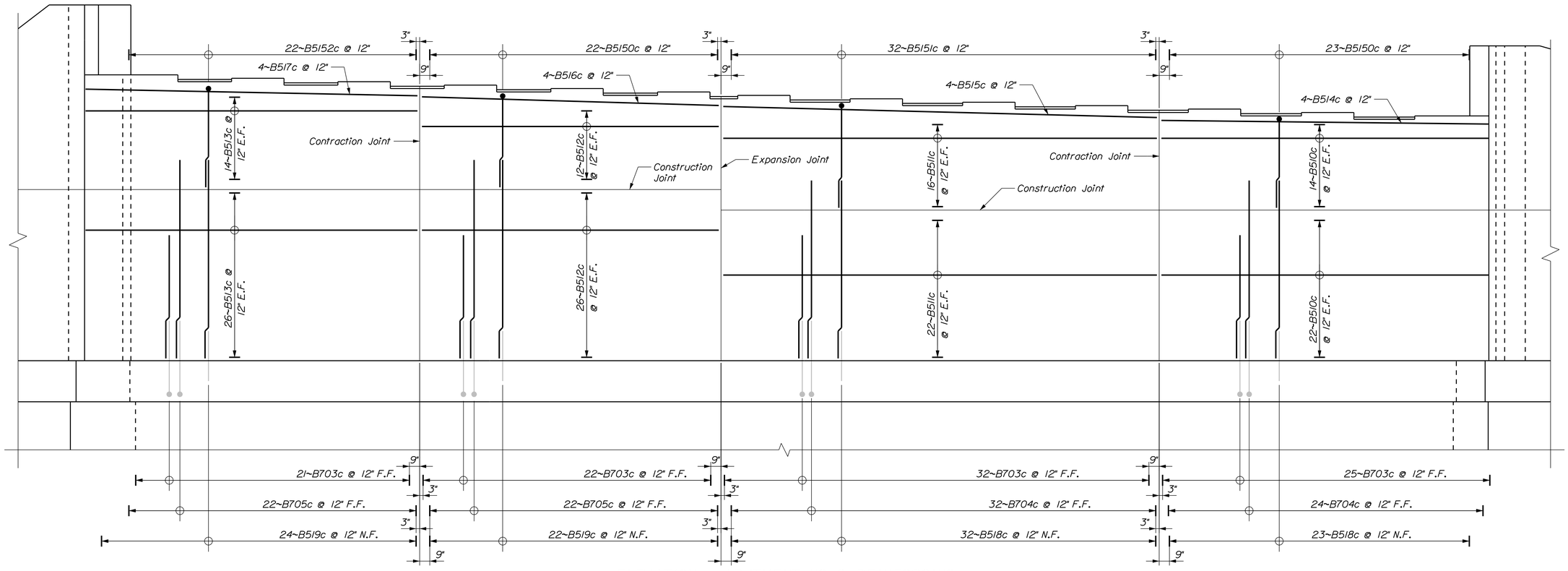
WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

ABUTMENT NO. 2
BEAM SEAT DETAILS

SHEET NUMBER
102
OF 190

Stantec

Filename: ...\MSTA_Abut_No2_Beam_Seat.dgn Division: BRIDGE Username: kwight Date:7/18/2023



ELEVATION ~ ABUTMENT NO. 2 REINFORCING

Filename: ...\MSTA_Abut_No2_Reinforcing.dgn Division: BRIDGE Username: kwight Date:7/18/2023

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00

BRIDGE NO. 5808 BRIDGE PLANS

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	SW		
CHECKED-REVIEWED	TEK		
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BY	DATE
SW	JUNE 2023
TEK	JUNE 2023

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

ABUTMENT NO. 2 REINFORCING

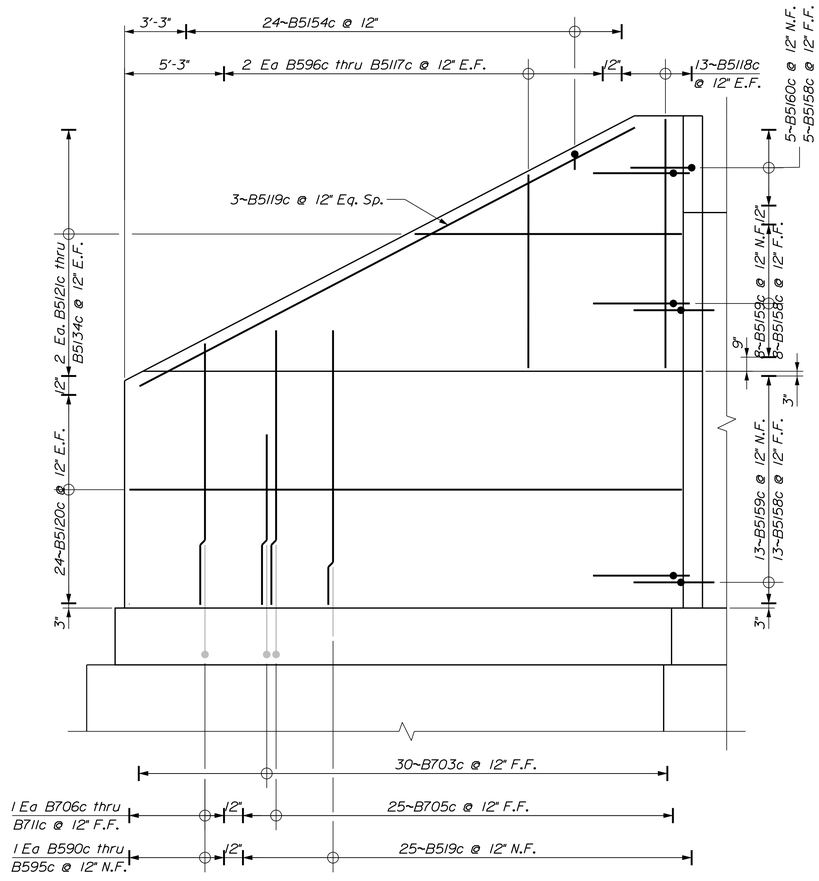
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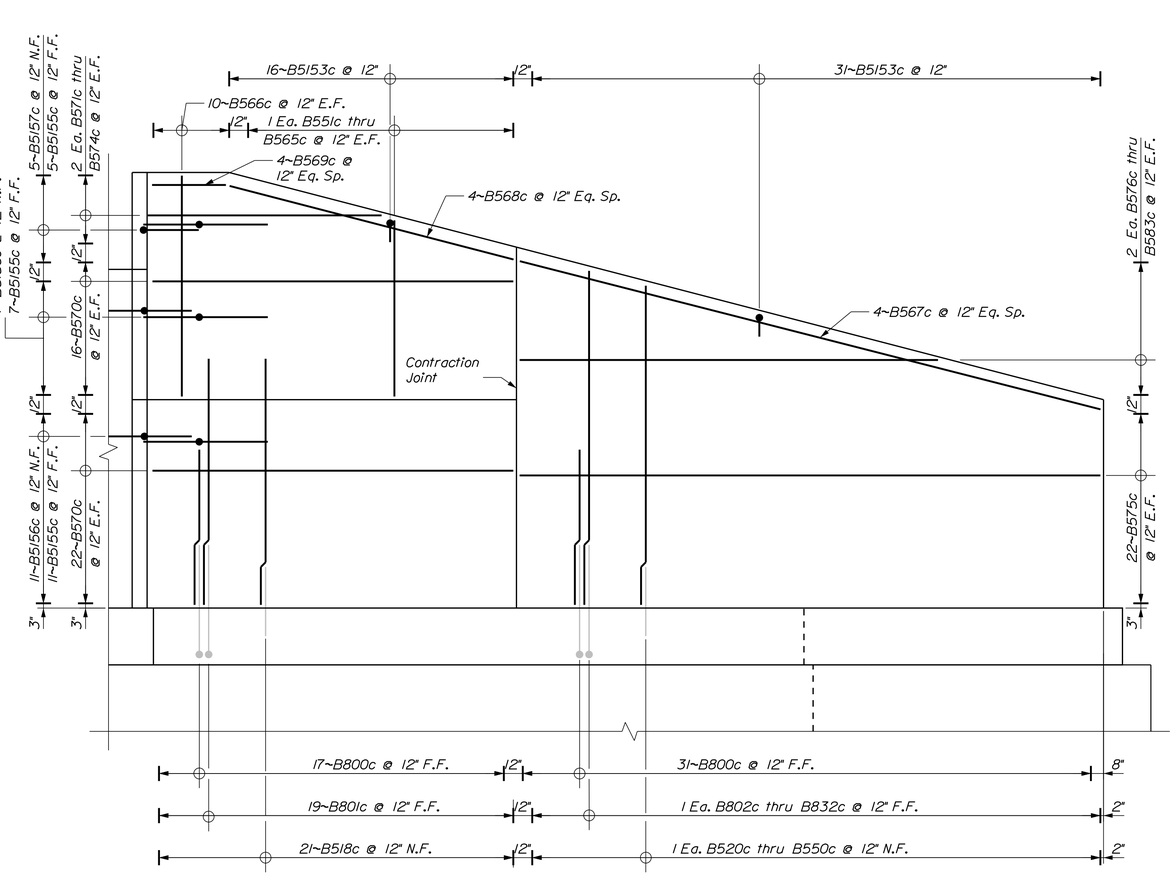
OF 190

Stantec

Filename: ..._Abut_No2_Wing_Reinforcing.dgn Division: BRIDGE Username: kwight Date:7/18/2023



ELEVATION ~ SOUTHWEST WINGWALL REINFORCING



ELEVATION ~ NORTHWEST WINGWALL REINFORCING

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 5808 **WIN 21672.00** BRIDGE PLANS

	BY	DATE
D. EATON		
DESIGNED	SW	JUNE 2023
CHECKED-REVIEWED	TEK	JUNE 2023
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

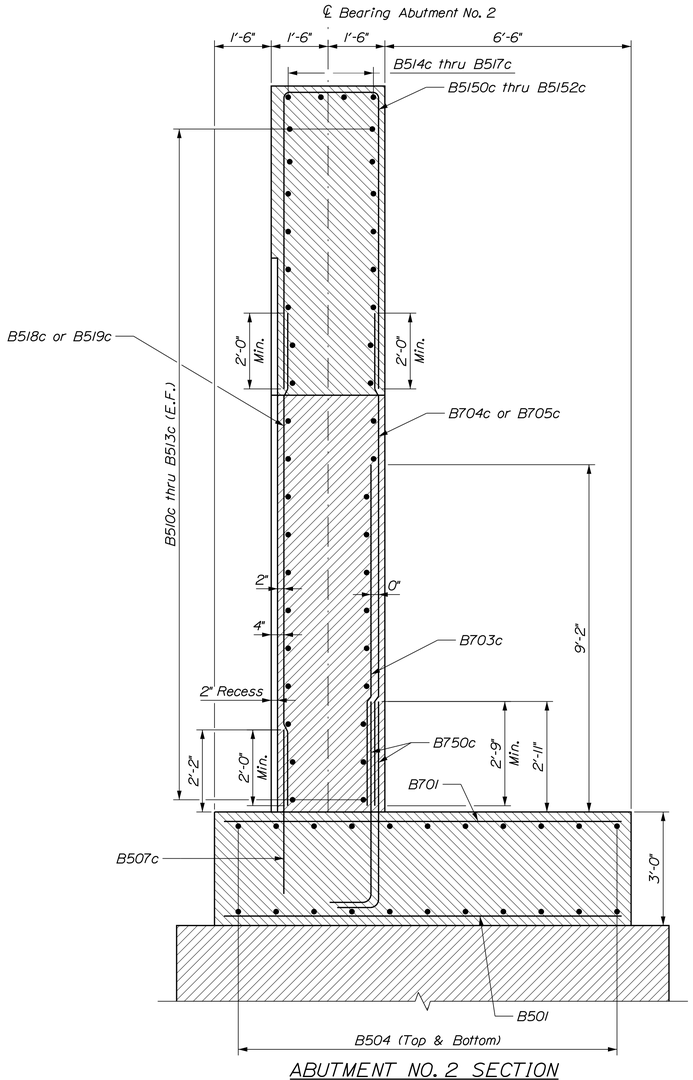
DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

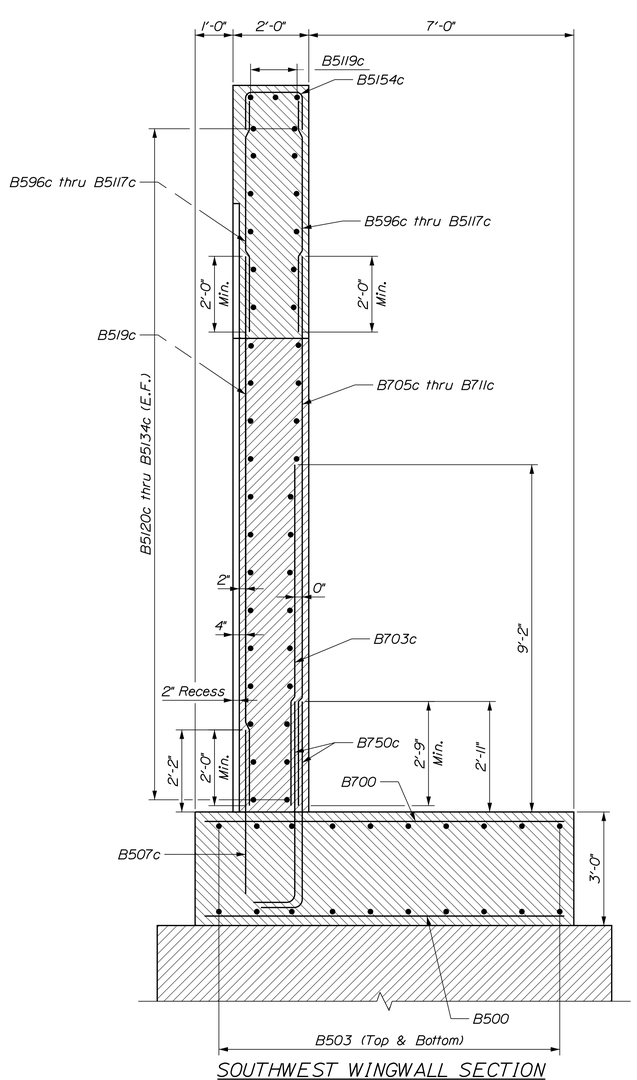
ABUTMENT NO. 2 WINGWALL REINFORCING

SHEET NUMBER
104
OF 190

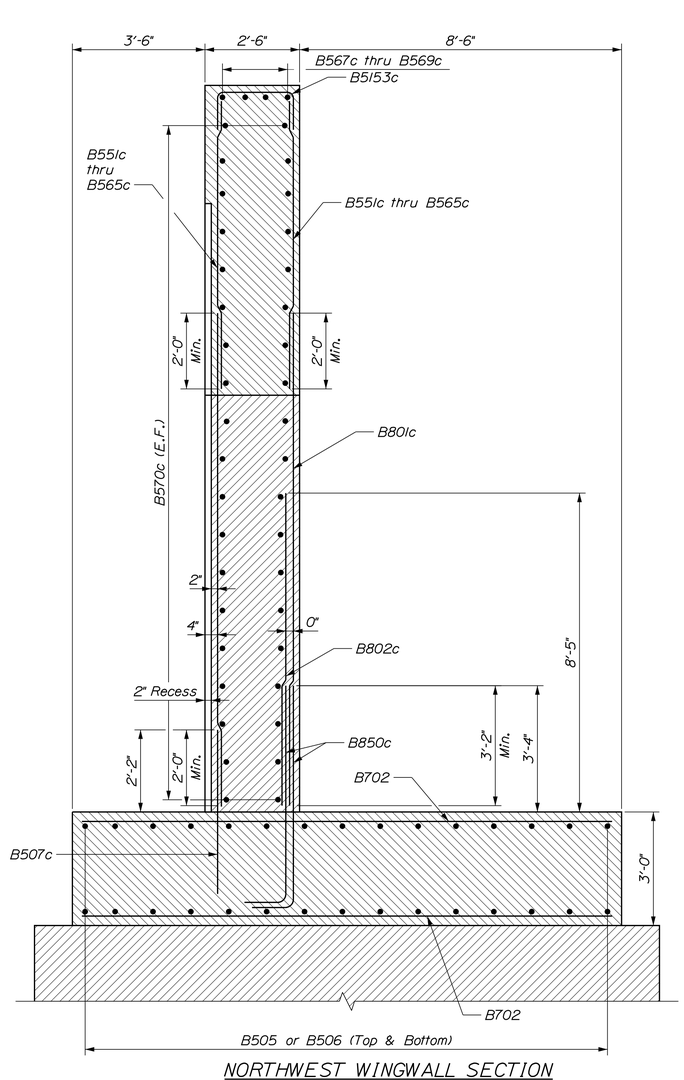
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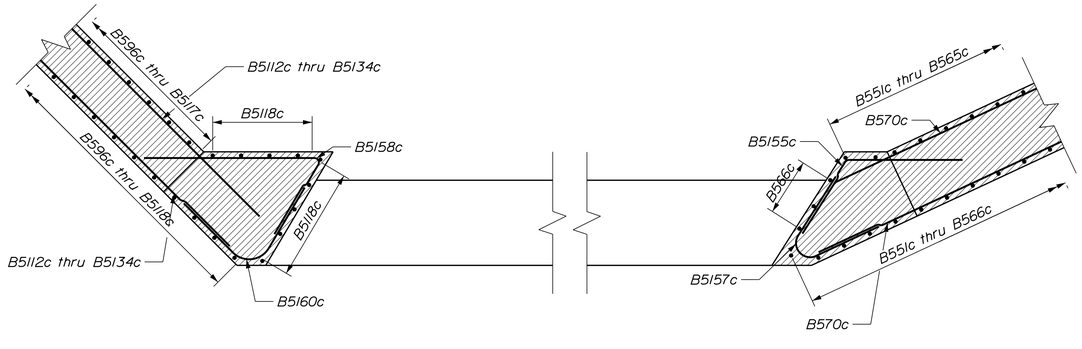
ABUTMENT NO. 2 SECTION



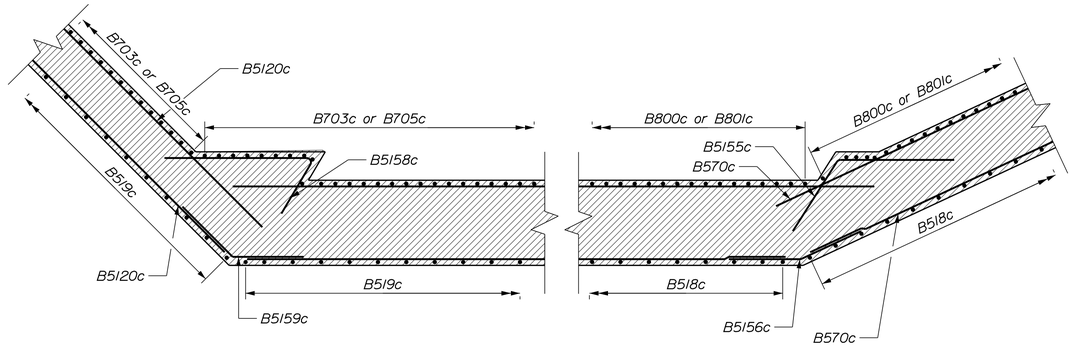
SOUTHWEST WINGWALL SECTION



NORTHWEST WINGWALL SECTION



CORNER REINFORCING ABOVE BEAM SEAT



CORNER REINFORCING BELOW BEAM SEAT

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 5808 WIN 21672.00 BRIDGE PLANS

	BY	DATE
PROJ. MANAGER	D. EATON	
DESIGN-DETAILED	SW	JUNE 2023
CHECKED-REVIEWED	TEK	JUNE 2023
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

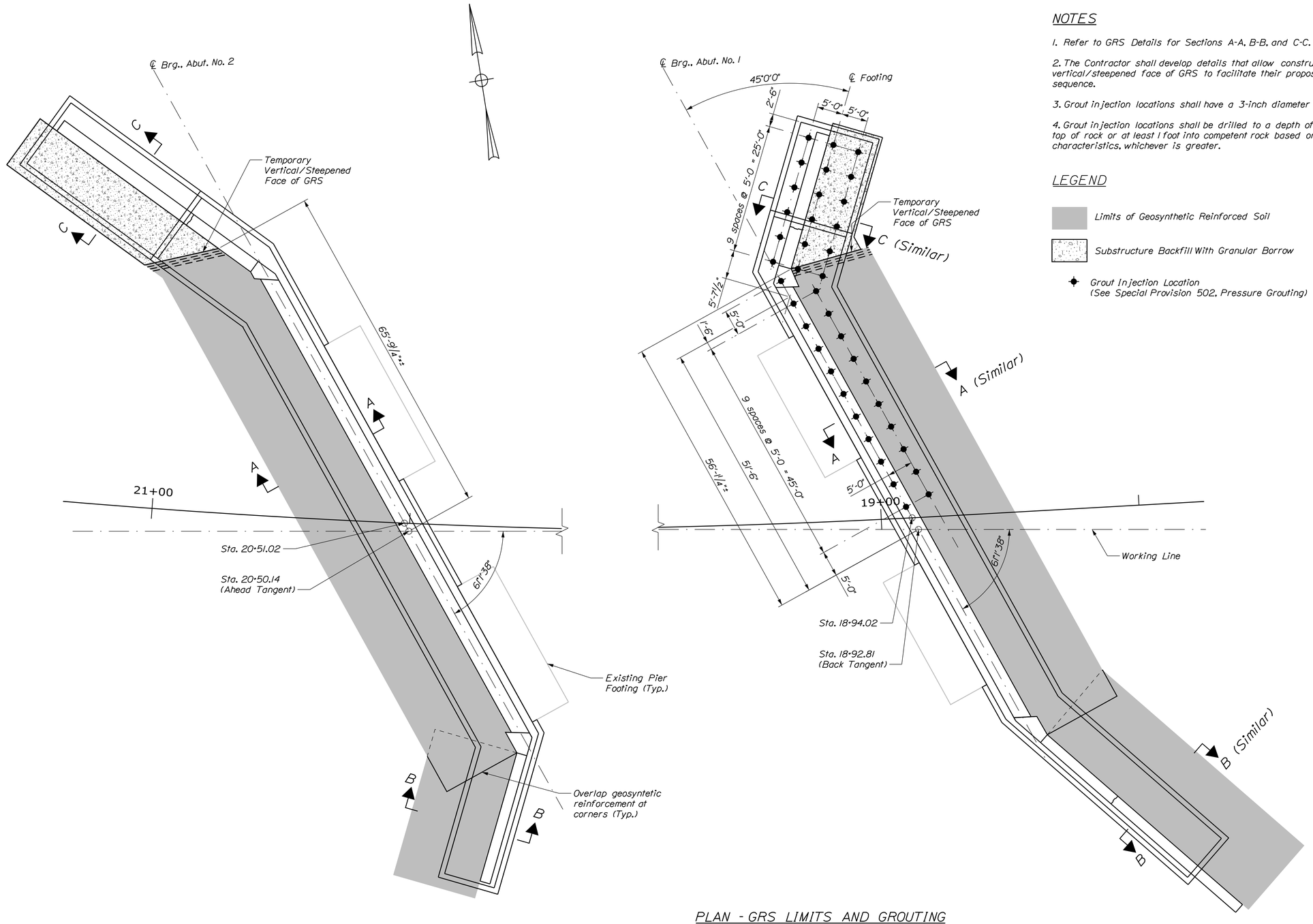
DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

ABUTMENT NO. 2 SECTIONS

SHEET NUMBER
105
OF 190

Stantec



PLAN - GRS LIMITS AND GROUTING

NOTES

1. Refer to GRS Details for Sections A-A, B-B, and C-C.
2. The Contractor shall develop details that allow construction of a temporary vertical/steepened face of GRS to facilitate their proposed construction sequence.
3. Grout injection locations shall have a 3-inch diameter drill hole.
4. Grout injection locations shall be drilled to a depth of 20 feet below the top of rock or at least 1 foot into competent rock based on drilling characteristics, whichever is greater.

LEGEND

- Limits of Geosynthetic Reinforced Soil
- Substructure Backfill With Granular Borrow
- Grout Injection Location (See Special Provision 502, Pressure Grouting)

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

STATE OF MAINE
Andrew R. Blaisdell
10957
LICENSED PROFESSIONAL ENGINEER

10957
SIGNATURE

P.E. NUMBER

05/19/2023
DATE

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	SW	DDT	JUNE 2023
CHECKED-REVIEWED	TEK	TEK	JUNE 2023
DESIGN2-DETAILED2	GZA	GZA	
DESIGN3-DETAILED3			
REVISIONS 1			
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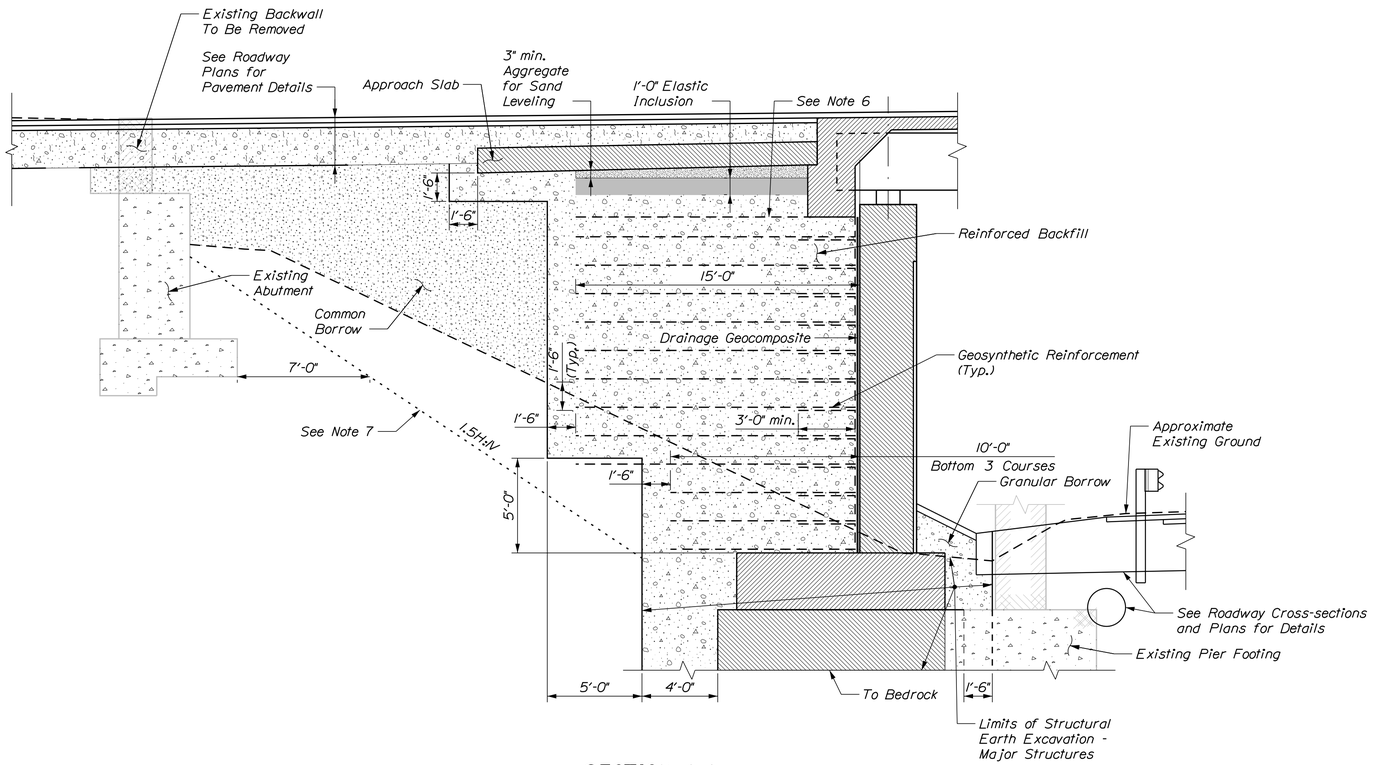
WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

GRS LIMITS AND GROUTING PLAN

SHEET NUMBER
106
OF 190

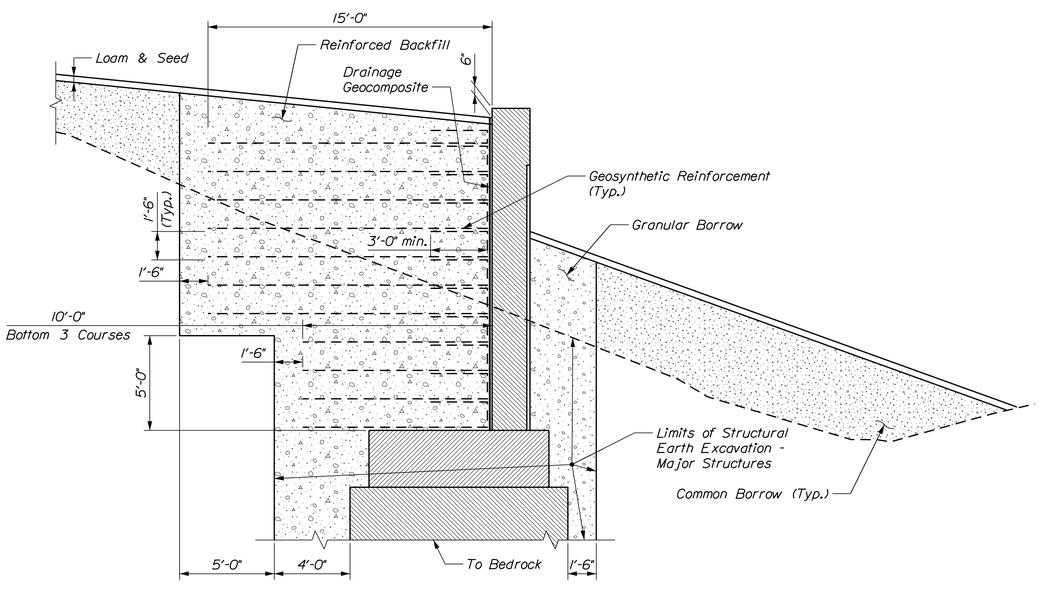
GZA Stantec

Filename: ...\00\BRIDGE\MSTA_GRS_Plan.dgn Division: BRIDGE Username: kwight Date:7/18/2023

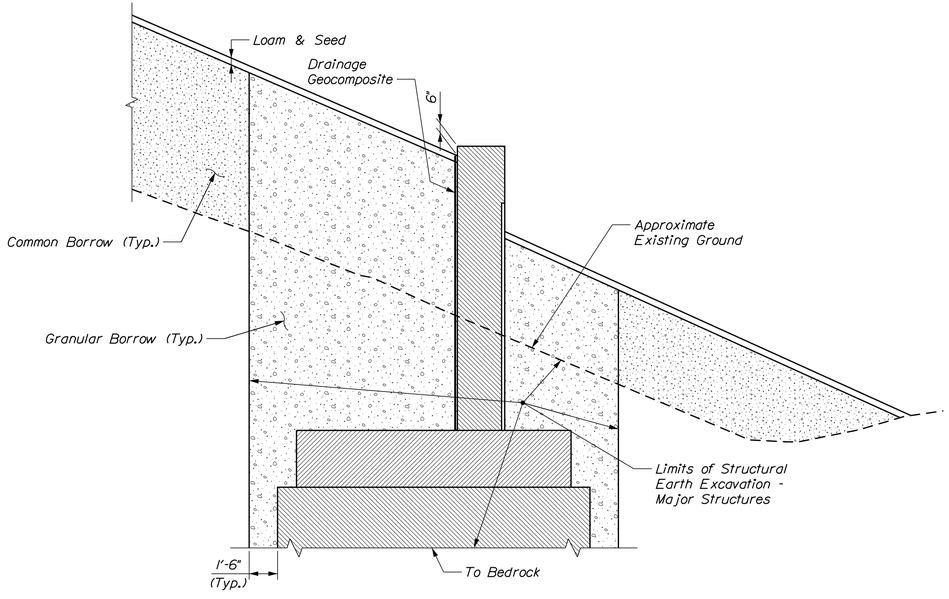


SECTION A-A

(Abutment No. 2 shown, Abutment No. 1 similar)



SECTION B-B



SECTION C-C

GRS NOTES

1. Abutments, wingwalls, and their footings shall be backfilled with Reinforced Soil Backfill per Special Provision 203, Reinforced Soil Backfill.

2. See Special Provision 620, Geosynthetic Reinforcement for material submittals, properties, and placement requirements.

3. Elastic inclusion shall consist of an elasticized expanded polystyrene material. Material properties, submittals, protection, testing, and placement requirements are provided in Special Provision 203, Excavation and Embankment (Elastic Inclusion for Approach Slab).

4. The layer of aggregate for sand leveling will not be paid for separately and will be considered incidental to Item 203.4340 Elastic Inclusion.

5. Abutments and wingwalls shall have independent full-length geosynthetic layers in accordance with the lengths shown. Reinforcement layers that intersect at the abutment and wingwalls shall be offset by a minimum of 6 inches vertically.

6. The uppermost row of geosynthetic behind abutments shall be sloped and be set at the elevation of the bottom of backwall. The maximum distance between the sloped row and next row down is 2' as shown in the detail. Additional horizontal rows shall be added when the vertical gap exceeds 2'.

7. Excavation must be kept outside of the influence zone of existing abutment footings as defined in Special Provision 524.301, Temporary Structural Supports. If this is not feasible to complete the required work, an excavation support system will be required that considers surcharge loading of the existing abutment footing.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS

WIN 21672.00

BRIDGE NO. 5808

STATE OF MAINE ★ Andrew Blaisdell 10957 LICENSED PROFESSIONAL ENGINEER ★

P.E. NUMBER 10957

SIGNATURE

05/19/2023

DATE

BY	DATE
D. EATON	JUNE 2023
DDT	JUNE 2023
TEK	
GZA	

PROJ. MANAGER	D. EATON
DESIGN-DETAILED	SW
CHECKED-REVIEWED	TEK
DESIGN2-DETAILED2	GZA
DESIGN3-DETAILED3	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

GRS DETAILS

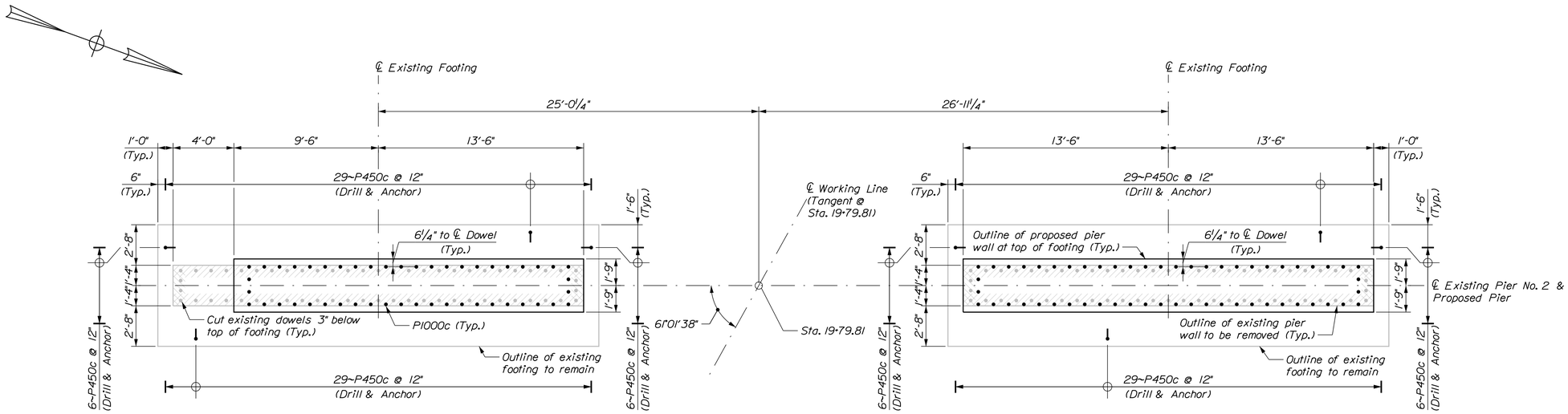
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OF 190

GZA Stantec

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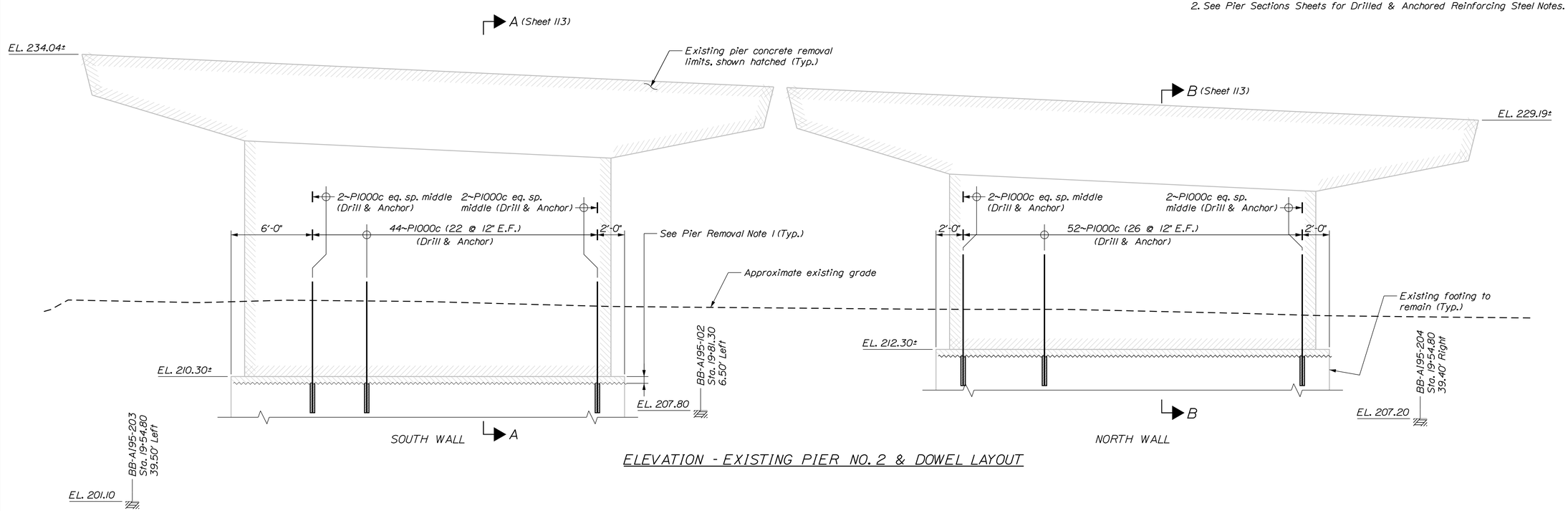


PLAN - EXISTING PIER NO. 2 FOOTINGS & DOWEL LAYOUT

EXISTING PIER NO. 2 REMOVAL NOTES

1. The top of footing shall be removed to a minimum depth of 6 inches, or to sound concrete in accordance with Section 518 for repair of upward facing surfaces. The removal of the existing pier walls and top of footings shall be included in Item 202.19 Removing Existing Bridge, including surface preparation and bonding agent for new footing concrete.

2. See Pier Sections Sheets for Drilled & Anchored Reinforcing Steel Notes.



ELEVATION - EXISTING PIER NO. 2 & DOWEL LAYOUT

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

P.E. NUMBER
DATE
SIGNATURE

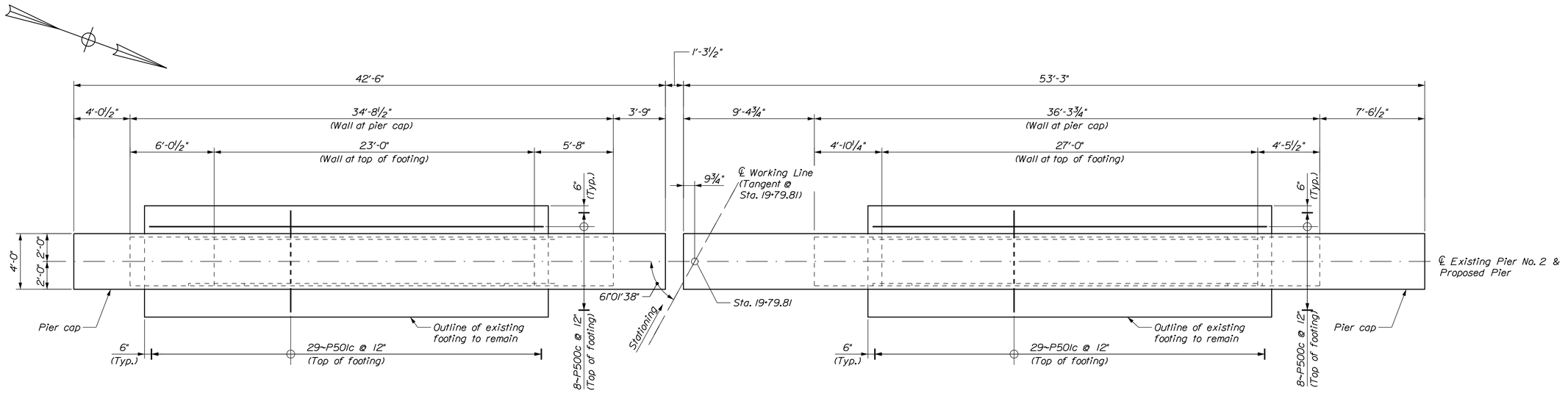
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D. EATON	BY	
PROJ. MANAGER		
DESIGN-DETAILED	IS	DDT JUNE 2023
CHECKED-REVIEWED	DDT	IS JUNE 2023
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

EXIST. PIER NO. 2 REMOVAL AND DOWEL LAYOUT

SHEET NUMBER
108
OF 190

Date:7/18/2023
Username: kwight
Division: BRIDGE
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PLAN - PROPOSED PIER & FOOTING REINFORCEMENT

PIER DESIGN CRITERIA

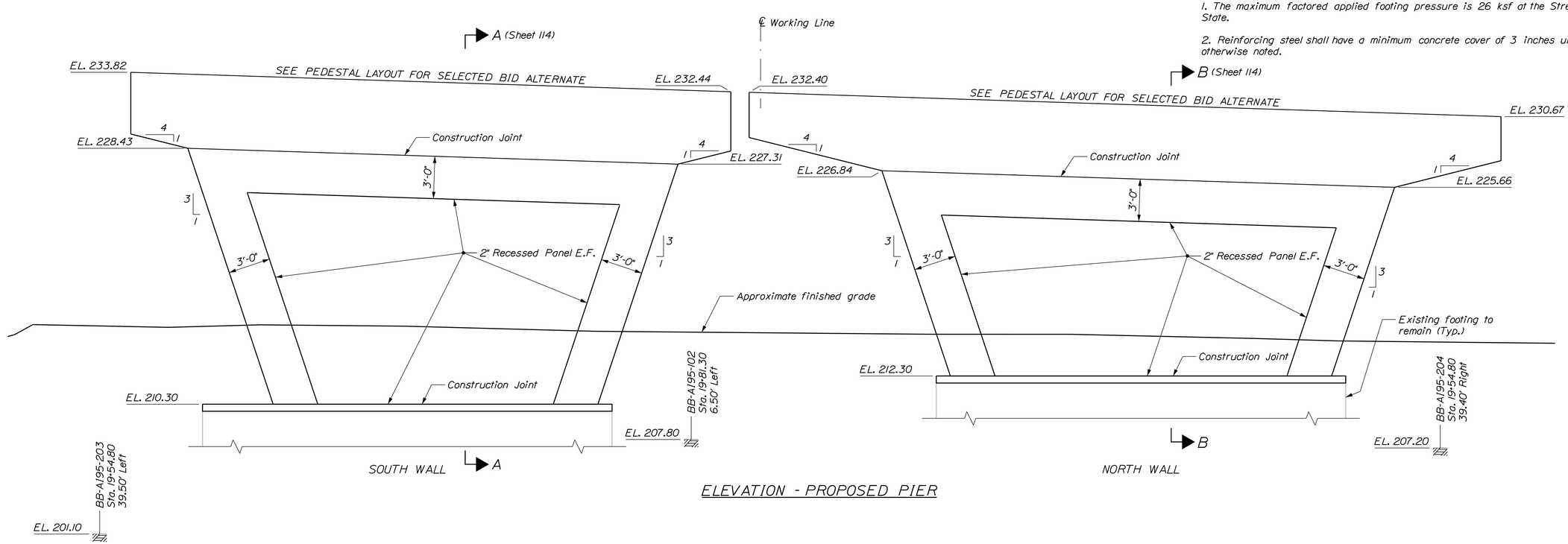
1. Controlling AASHTO Load Combination - Strength I.

2. Wind: 115 mph or 0.054 ksf - Strength III.

PIER NOTES

1. The maximum factored applied footing pressure is 26 ksf at the Strength I Limit State.

2. Reinforcing steel shall have a minimum concrete cover of 3 inches unless otherwise noted.



ELEVATION - PROPOSED PIER

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS

WIN 21672.00

BRIDGE NO. 5808

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	IS	DDT	JUNE 2023
CHECKED-REVIEWED	DDT	IS	JUNE 2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

PIER
PLAN AND ELEVATION

SHEET NUMBER

109

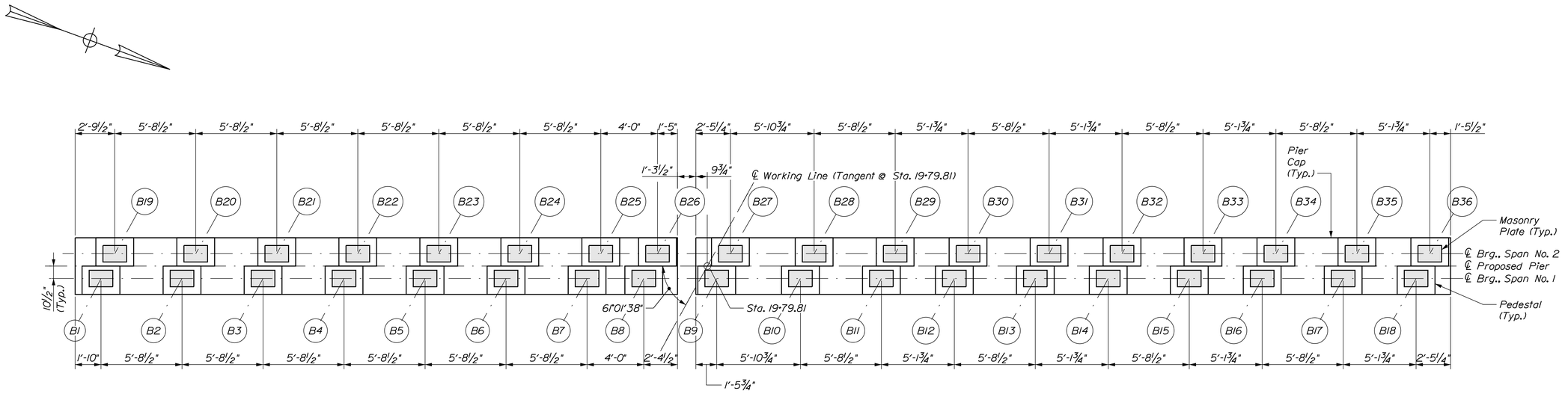
OF 190

Stantec

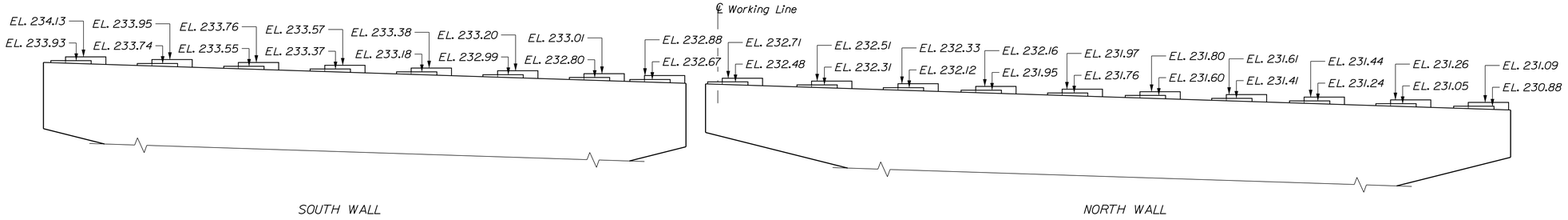
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Division: BRIDGE

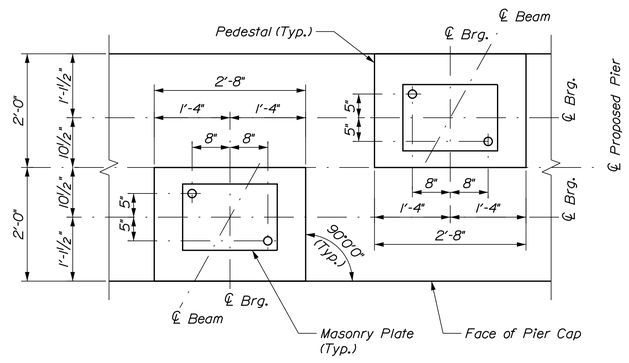
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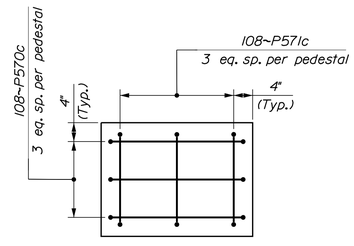
PLAN - PEDESTAL LAYOUT FOR PBU ALTERNATIVE



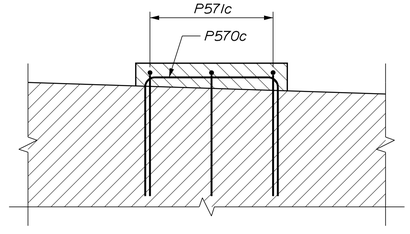
ELEVATION - PEDESTAL LAYOUT FOR PBU ALTERNATIVE



PLAN - PEDESTAL



PLAN - PEDESTAL REINFORCING



SECTION - PEDESTAL REINFORCING

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS
WIN 21672.00
BRIDGE NO. 5808

P.E. NUMBER
DATE

BY	DATE	SIGNATURE
D. EATON		
DDT	JUNE 2023	
IS	JUNE 2023	

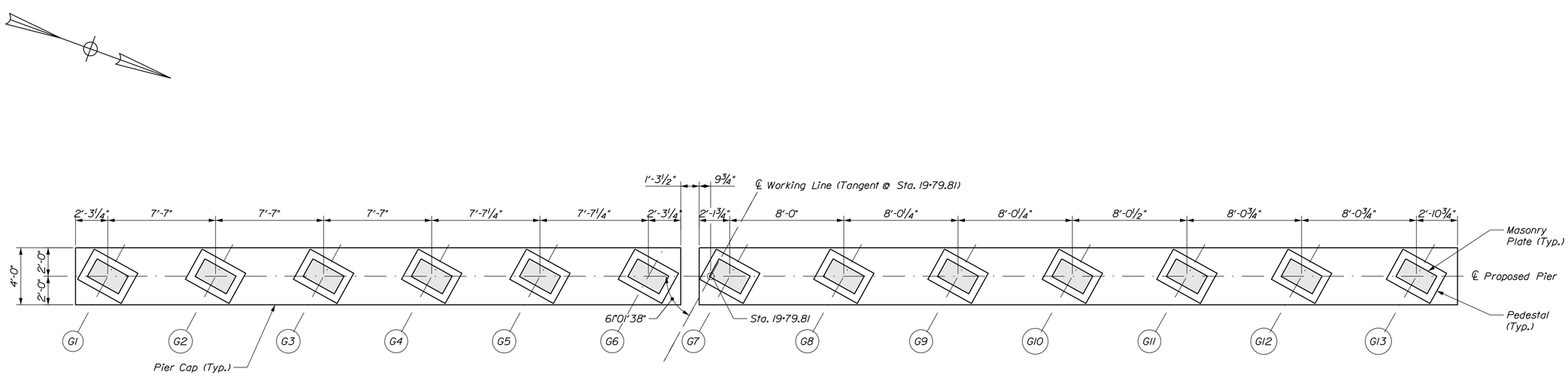
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CHECKED-REVIEWED	DDT	IS
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REVISIONS 1		
REVISIONS 2		
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REVISIONS 4		
FIELD CHANGES		

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

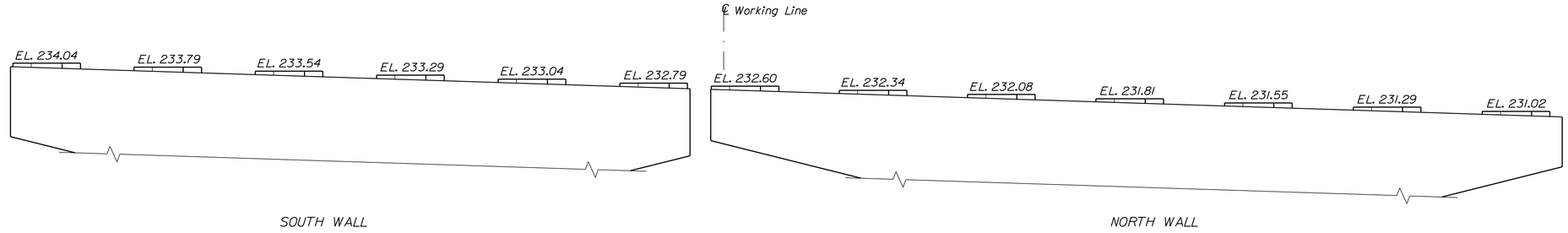
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SHEET NUMBER
110
OF 190

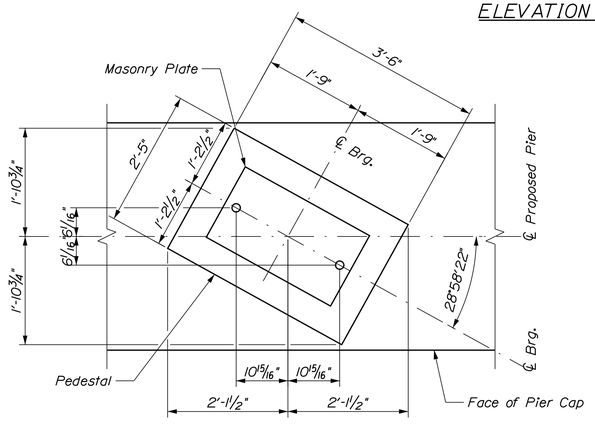
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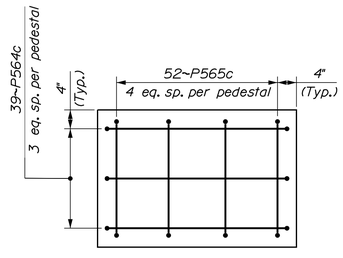
PLAN - PEDESTAL LAYOUT FOR CURVED GIRDER ALTERNATIVE



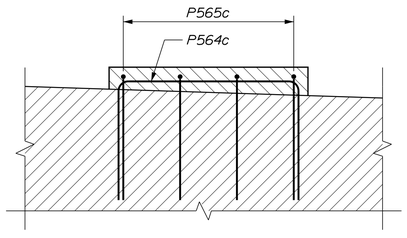
ELEVATION - PEDESTAL LAYOUT FOR CURVED GIRDER ALTERNATIVE



PLAN - PEDESTAL



PLAN - PEDESTAL REINFORCING



SECTION - PEDESTAL REINFORCING

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

P.E. NUMBER
DATE
SIGNATURE

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	IS	DDT	JUNE 2023
CHECKED-REVIEWED	DDT	IS	JUNE 2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

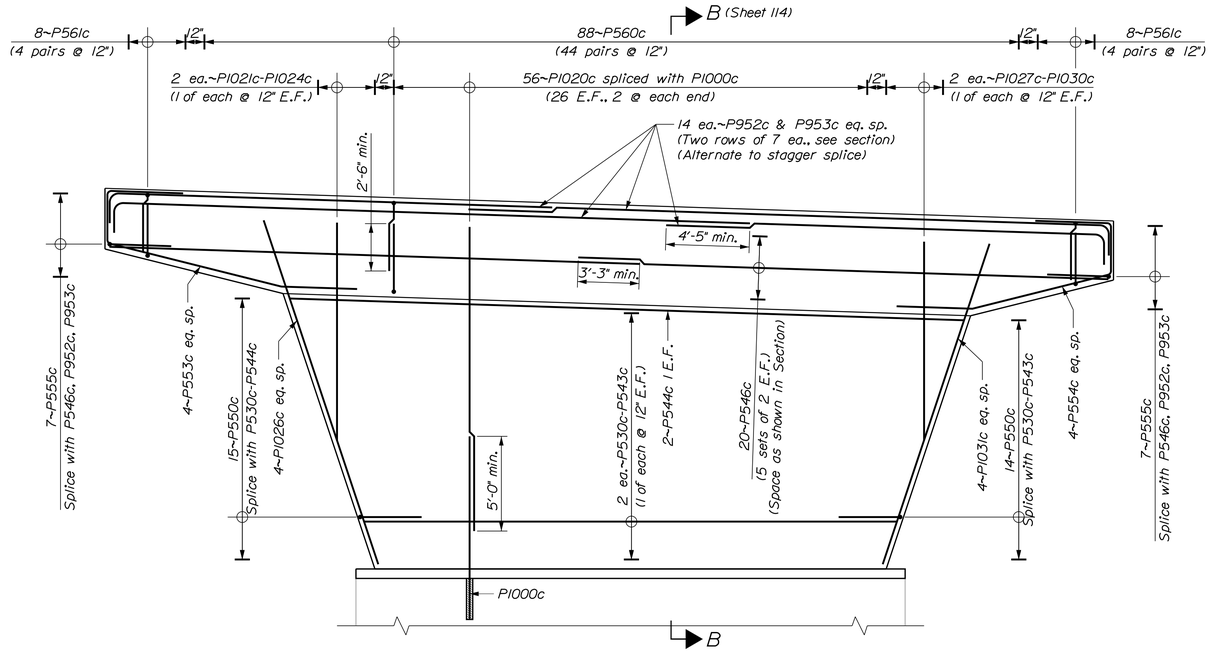
WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

PIER PEDESTALS
CURVED GIRDER ALT.

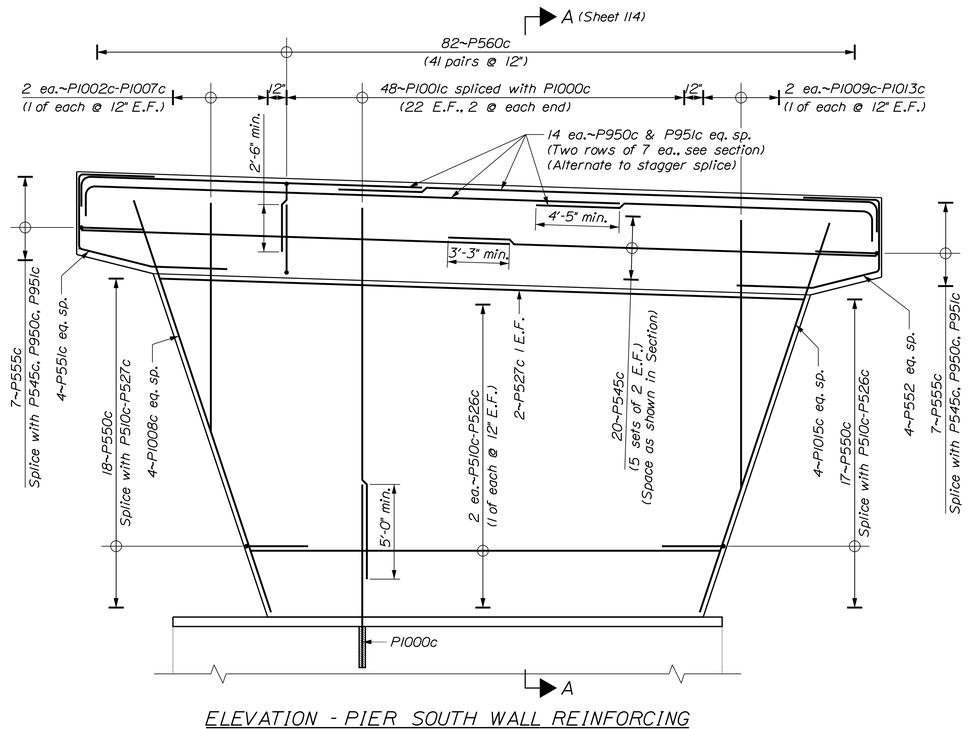
SHEET NUMBER
111
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Stantec

Filename: ...\00\BRIDGE\MSTA_Pier_3.dgn Username: kwight Division: BRIDGE Date:7/18/2023



ELEVATION - PIER NORTH WALL REINFORCING



ELEVATION - PIER SOUTH WALL REINFORCING

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00

BRIDGE NO. 5808

BRIDGE PLANS

	BY	DATE
D. EATON		
PROJ. MANAGER	DOT	JUNE 2023
DESIGN-DETAILED	IS	JUNE 2023
CHECKED-REVIEWED	DOT	
DESIGN2-DETAILED2	IS	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

PIER REINFORCING

SHEET NUMBER

112

OF 190

Filename: ...\00\BRIDGE\MSTA_Pier_7.dgn Division: BRIDGE Username: kwight Date:7/18/2023

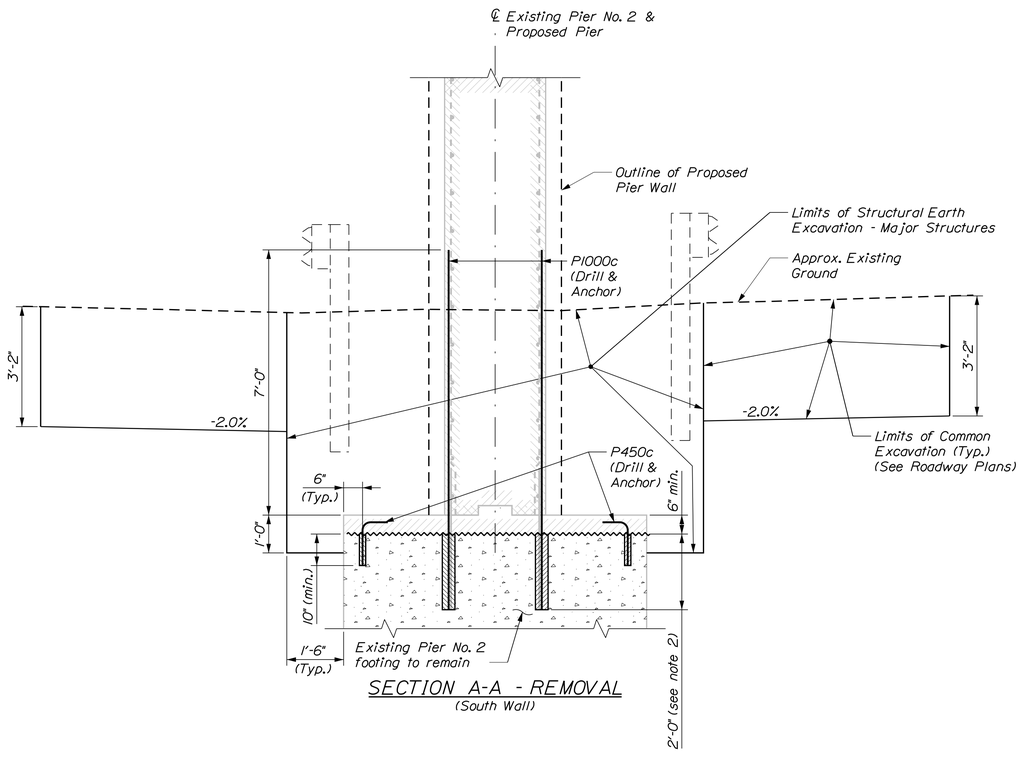
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DRILLED & ANCHORED REINFORCING STEEL NOTES

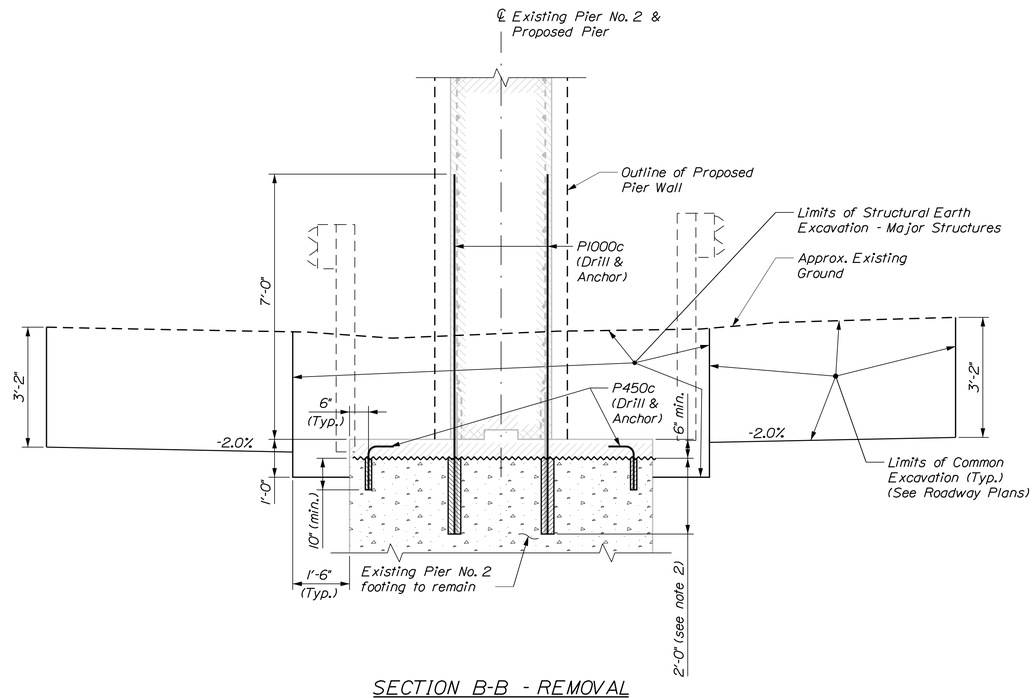
1. For drilling and anchoring reinforcing bars size #9 or larger, the anchor material chosen from the Qualified Products List, Epoxy and Resin Based Adhesive Bonding Systems, and proposed embedment depth, shall be submitted to the Resident for approval.

2. The embedment depths shown are conceptual. The selected adhesive bonding system and embedment depth shall be capable of providing a factored resistance greater than or equal to 1.25 times the yield strength of an equal sized ASTM A615 Grade 60 reinforcing bar embedded in concrete with a compressive strength of 2,500 psi.

3. Installation of drilled and anchored reinforcing shall be in accordance with Standard Specification Subsection 503.06 and basis of payment shall be as per Subsection 503.11.



SECTION A-A - REMOVAL
(South Wall)



SECTION B-B - REMOVAL
(North Wall)

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

PROJ. MANAGER	D. EATON	BY	DATE
DESIGN-DETAILED	IS	DDT	JUNE 2023
CHECKED-REVIEWED	DDT	IS	JUNE 2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

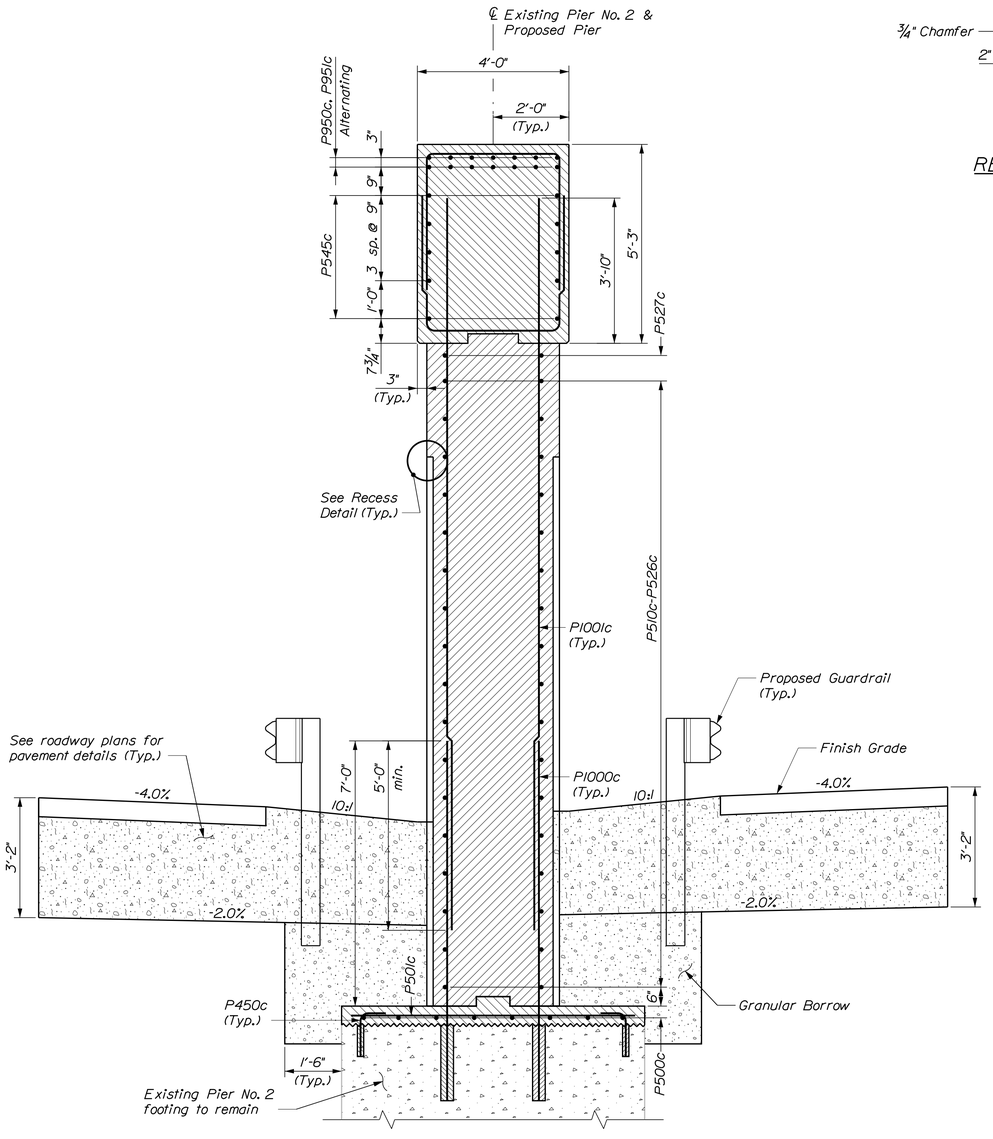
DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

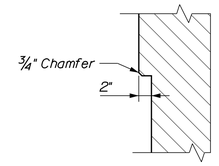
PIER SECTIONS

SHEET NUMBER
113
OF 190

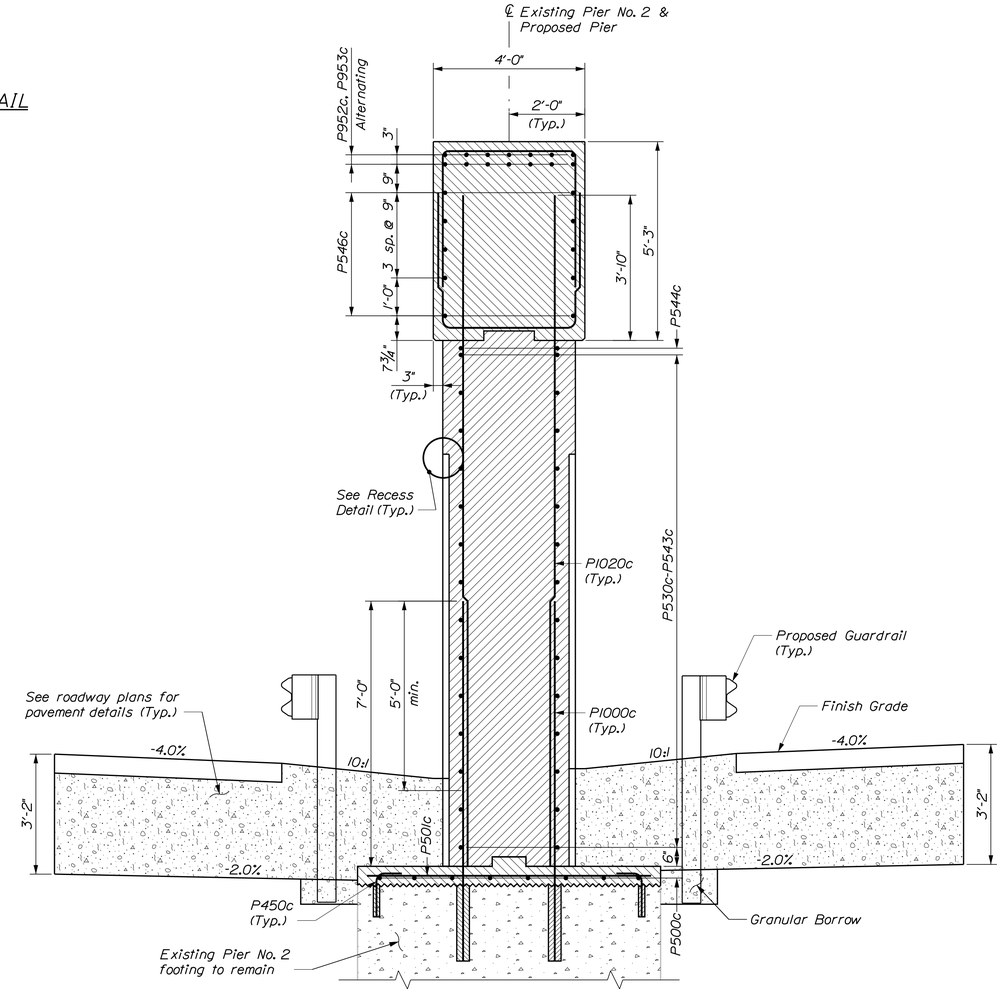
Filename: ...\00\BRIDGE\MSTA_Pier_6.dgn Division: BRIDGE Username: kwight Date:7/18/2023



SECTION A-A - RECONSTRUCTION
(South Wall)



RECESS DETAIL



SECTION B-B - RECONSTRUCTION
(North Wall)

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 5808 WIN 21672.00 BRIDGE PLANS

	D. EATON	BY	DATE
PROJ. MANAGER			
DESIGN-DETAILED	IS	DDT	JUNE 2023
CHECKED-REVIEWED	DDT	IS	JUNE 2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

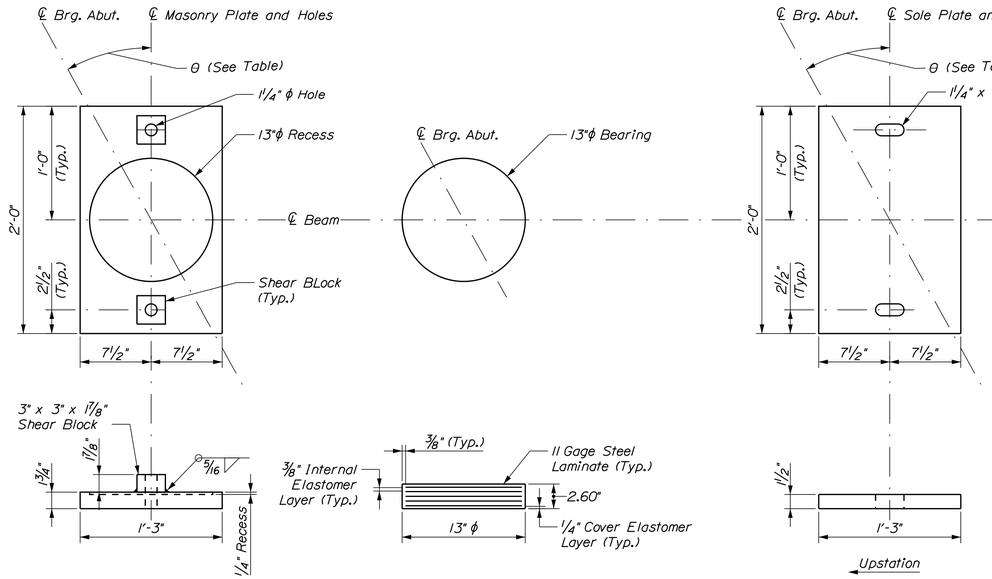
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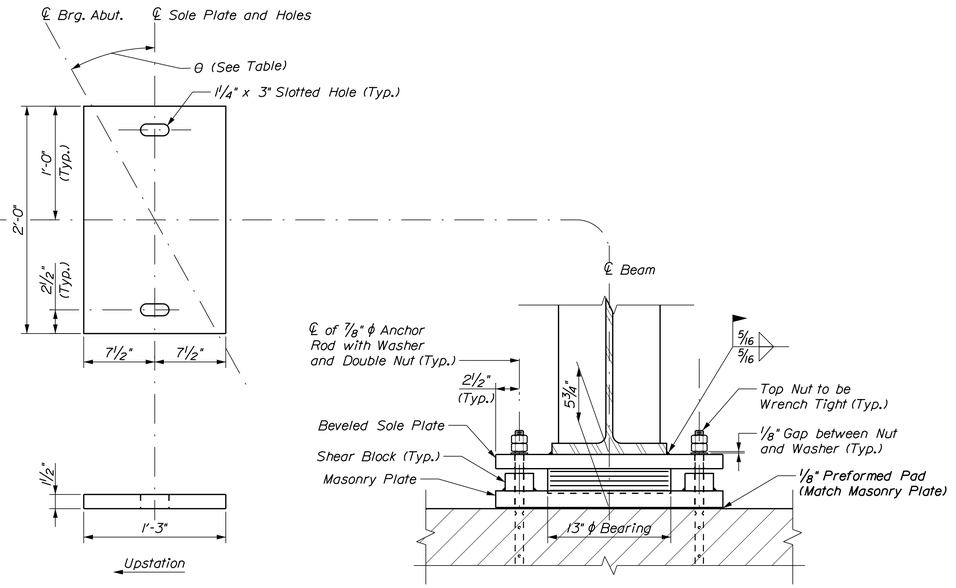
DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

PIER SECTIONS

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ELASTOMERIC BEARING NOTES

1. The shear modulus of the elastomer shall be 150 psi.

2. Vulcanization of the elastomer to the steel plates shall be done during the primary mold process. Sole plate shall be vulcanized to the elastomer.

3. Masonry plates, sole plates and shear blocks shall meet the requirements of ASTM A709, Grade 50. Anchor rods shall meet the requirements of ASTM F1554, Grade 105 and shall be swedged on the embedded portion of the rod.

4. Masonry plates shall be galvanized or metalized in accordance with Section 506. Sole plates for steel superstructures shall be treated in the same manner as the structural steel. Anchor rods, washers, nuts and shear blocks shall be galvanized to ASTM A153 or ASTM B695, Class 50, Type 1.

5. All bearings shall be marked prior to shipping. The marks shall include the bearing location on the bridge and a direction arrow that points upstation. All marks shall be permanent and shall be visible after the bearing is installed.

6. Bearings shall be covered during shipping and at any time prior to installation that the bearings may be exposed to sunlight.

7. The superstructure may be erected when the ambient air temperature is within the range of 65°F and 90°F. Bearings are designed such that the slotted holes in the sole plate are centered on the anchor rods when erected within this range. If the ambient air temperature is outside this range, the bearings shall be reset as directed by the Resident.

8. All necessary precautions shall be taken to protect bearing components from field weld flash and spatter. Heat from welding operations shall be controlled such that steel adjacent to the elastomer does not exceed 200 °F. The temperature shall be verified by the use of temperature indicating crayons or other suitable means.

9. Upset the threads on the anchor rods after assembly of the bearing.

10. The Contractor shall not weld the girders to the sole plate until after all adjustments have been made in accordance with Standard Specification Section 523.094.

11. The "Bearing Design Load" for each bearing as noted in Standard Specifications, subsection 523.23.4, is 166 kips for the expansion bearings at the abutments and 130 kips for the fixed bearings at the pier. This is the total load for the Service I load combination, without impact.

BEARING ANGLES, θ

Span	Barrel	Beam	Abutment 1	Pier	Abutment 2
Span 1	Eastbound	1	27° 30' 33"	62° 29' 27"	-
		2	28° 58' 22"	61° 01' 38"	-
		3	28° 58' 22"	61° 01' 38"	-
		4	28° 58' 22"	61° 01' 38"	-
		5	28° 58' 22"	61° 01' 38"	-
		6	28° 58' 22"	61° 01' 38"	-
		7	28° 58' 22"	61° 01' 38"	-
		8	27° 30' 33"	62° 29' 27"	-
	Westbound	9	27° 30' 33"	62° 29' 27"	-
		10	28° 58' 22"	61° 01' 38"	-
		11	28° 58' 22"	61° 01' 38"	-
		12	28° 58' 22"	61° 01' 38"	-
		13	28° 58' 22"	61° 01' 38"	-
		14	28° 58' 22"	61° 01' 38"	-
		15	28° 58' 22"	61° 01' 38"	-
		16	28° 58' 22"	61° 01' 38"	-
		17	28° 58' 22"	61° 01' 38"	-
		18	28° 58' 22"	61° 01' 38"	-
Span 2	Eastbound	19	-	61° 01' 38"	28° 58' 22"
		20	-	61° 01' 38"	28° 58' 22"
		21	-	61° 01' 38"	28° 58' 22"
		22	-	61° 01' 38"	28° 58' 22"
		23	-	61° 01' 38"	28° 58' 22"
		24	-	61° 01' 38"	28° 58' 22"
		25	-	61° 01' 38"	28° 58' 22"
		26	-	59° 44' 07"	28° 58' 22"
	Westbound	27	-	59° 44' 07"	28° 58' 22"
		28	-	61° 01' 38"	28° 58' 22"
		29	-	61° 01' 38"	28° 58' 22"
		30	-	61° 01' 38"	28° 58' 22"
		31	-	61° 01' 38"	28° 58' 22"
		32	-	61° 01' 38"	28° 58' 22"
		33	-	61° 01' 38"	28° 58' 22"
		34	-	61° 01' 38"	28° 58' 22"
		35	-	61° 01' 38"	28° 58' 22"
		36	-	59° 44' 07"	28° 58' 22"

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

	BY	DATE
DESIGN-DETAILED	EGM	JUNE 2023
CHECKED-REVIEWED	LSF	JUNE 2023
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PROJ. MANAGER: D. EATON

SIGNATURE
P.E. NUMBER
DATE

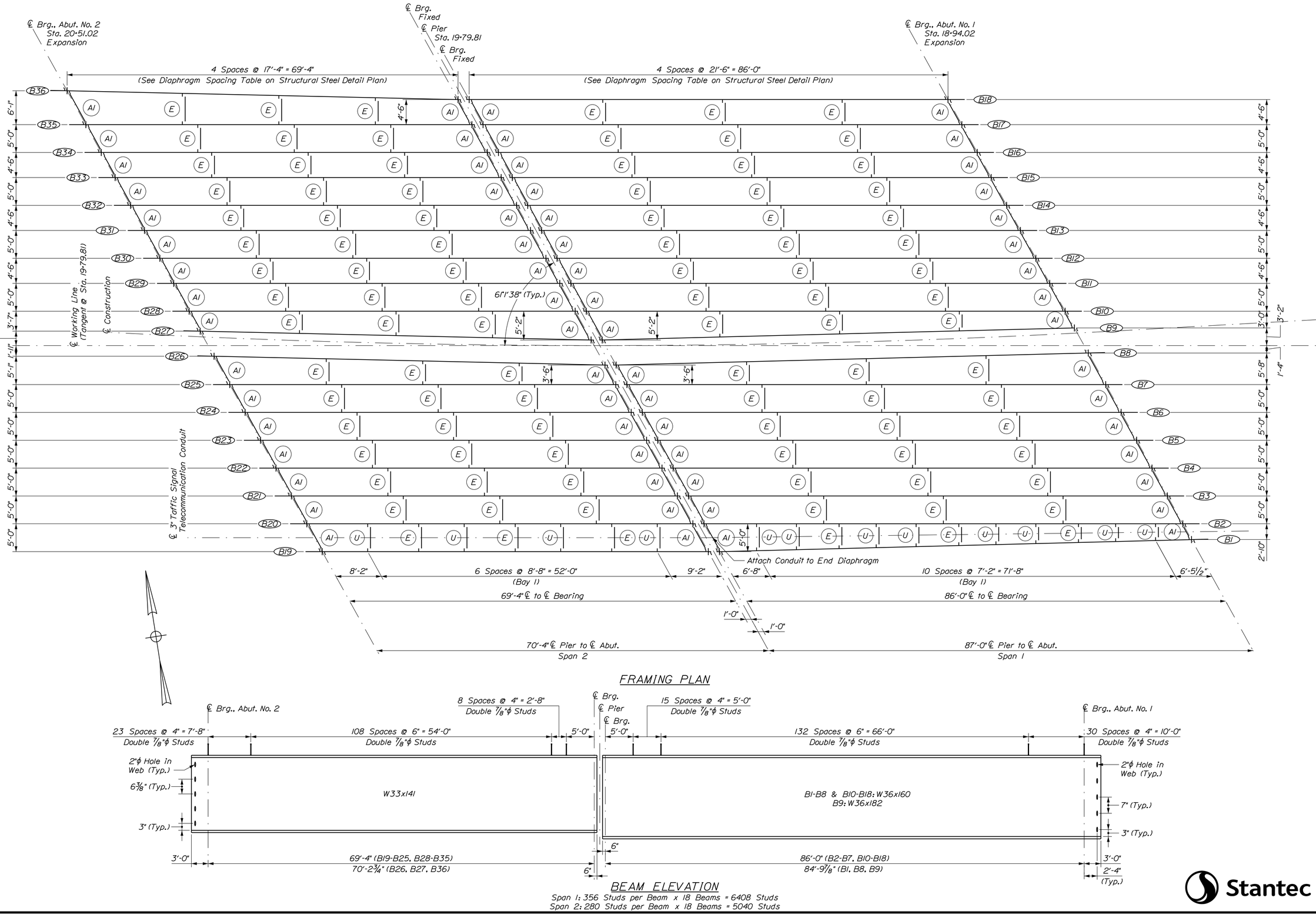
WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

BEARING DETAILS
PBU

SHEET NUMBER
115
OF 190

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Filename: ...\BRIDGE\MSTA_Framing_PBU.dgn Username: kwright Division: BRIDGE Date:7/18/2023



FRAMING PLAN

BEAM ELEVATION

Span 1: 356 Studs per Beam x 18 Beams = 6408 Studs
Span 2: 280 Studs per Beam x 18 Beams = 5040 Studs

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS

BRIDGE NO. 5808 **WIN 21672.00**

	BY	DATE
PROJ. MANAGER	D. EATON	
DESIGN-DETAILED	KLW/PAG	JUNE 2023
CHECKED-REVIEWED	PAG/SJW	JUNE 2023
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
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FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

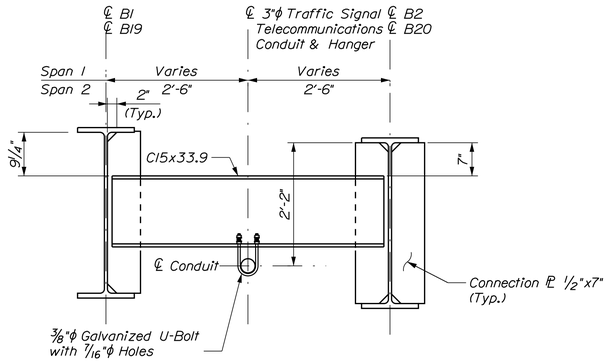
WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

FRAMING PLAN PBU

SHEET NUMBER

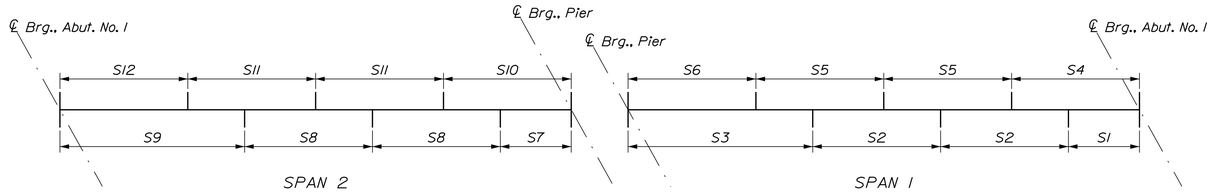
116

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DIAPHRAGM TYPE E

See 'Typical Weld Details" & Notes on Standard Detail 504(07)
Bay 1 Shown, Other Bays Similar. See Standard Detail 504(02)



DIAPHRAGM SPACING

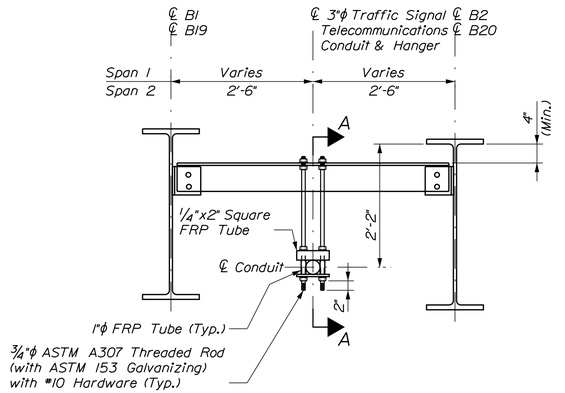
Not to Scale

Span 1 Diaphragm Spacing

Beam	S1	S2	S3	S4	S5	S6
B1	--	--	--	21'-2½"	21'-2½"	21'-2½"
B2-B7	18'-8¾"	21'-6"	24'-3 11/16"	21'-6"	21'-6"	21'-6"
B8	18'-4 7/16"	21'-6"	23'-5 5/16"	--	--	--
B9	--	--	--	20'-8⅛"	21'-6"	21'-1⅝"
B10, B12, B14, B16	18'-8¾"	21'-6"	24'-3 11/16"	21'-6"	21'-6"	21'-6"
B11, B13, B15, B17	19'-0⅛"	21'-6"	24'-3¼"	21'-6"	21'-6"	21'-6"
B18	18'-8¾"	21'-6"	24'-3 11/16"	--	--	--

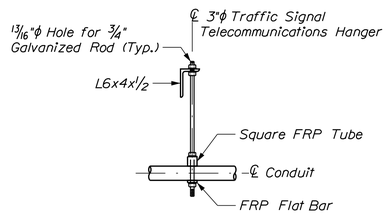
Span 2 Diaphragm Spacing

Beam	S7	S8	S9	S10	S11	S12
B19	--	--	--	17'-4"	17'-4"	17'-4"
B20-B25	14'-6¾"	17'-4"	20'-1¼"	17'-4"	17'-4"	17'-4"
B26	15'-4 13/16"	17'-4"	20'-1 13/16"	--	--	--
B27	--	--	--	17'-8½"	17'-4"	17'-10⅛"
B28, B30, B32, B34	14'-10⅛"	17'-4"	19'-9⅞"	17'-4"	17'-4"	17'-4"
B29, B31, B33, B35	14'-6¾"	17'-4"	20'-1 13/16"	17'-4"	17'-4"	17'-4"
B36	14'-10⅛"	17'-4"	20'-8 7/16"	--	--	--

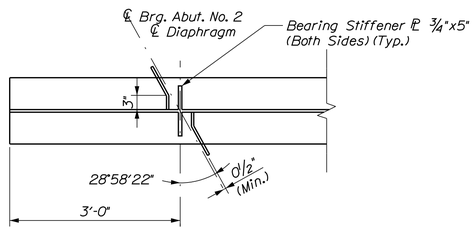


DIAPHRAGM TYPE U

See 'Typical Weld Details" & Notes on Standard Detail 504(07)

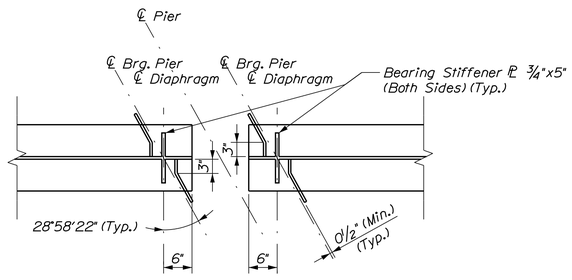


SECTION A-A



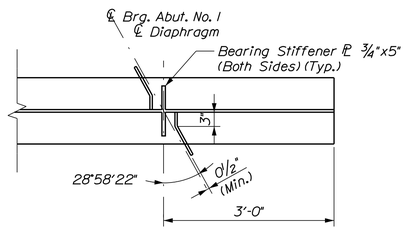
BEARING STIFFENER DETAIL

Abutment No. 2



BEARING STIFFENER DETAIL

Pier



BEARING STIFFENER DETAIL

Abutment No. 1

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS

WIN 21672.00

BRIDGE NO. 5808

P.E. NUMBER

DATE

SIGNATURE

PROJ. MANAGER	D. EATON
DESIGN-DETAILED	K.L.W
CHECKED-REVIEWED	S.J.W
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	

NO.	DESCRIPTION	BY	DATE
1	REVISIONS 1	K.L.W	JUNE 2023
2	REVISIONS 2	S.J.W/TEK	JUNE 2023
3	REVISIONS 3		
4	REVISIONS 4		
	FIELD CHANGES		

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

STRUCTURAL STEEL DETAILS PBU

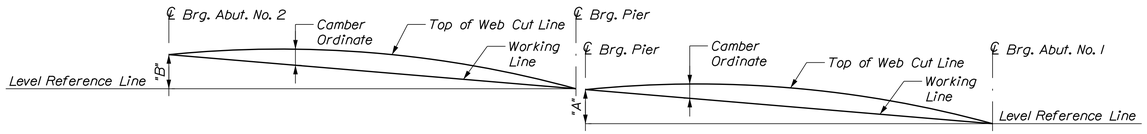
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Filename: ...\MSTA_Framing_Details_PBU.dgn Division: BRIDGE Username: kwight Date:7/18/2023



CAMBER DIAGRAM

BOTTOM OF SLAB ELEVATIONS (FT)

Beam	Abut. No. 1	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	Pier	Beam
B1	238.35	238.34	238.33	238.30	238.25	238.18	238.10	237.99	237.86	237.72	237.57	B1
B2	238.24	238.23	238.20	238.17	238.11	238.04	237.94	237.82	237.69	237.54	237.39	B2
B3	238.06	238.04	238.01	237.98	237.92	237.85	237.75	237.63	237.50	237.35	237.20	B3
B4	237.87	237.85	237.83	237.79	237.73	237.66	237.56	237.44	237.31	237.16	237.01	B4
B5	237.68	237.66	237.64	237.60	237.55	237.47	237.37	237.26	237.12	236.98	236.82	B5
B6	237.49	237.48	237.45	237.41	237.36	237.28	237.19	237.07	236.94	236.79	236.64	B6
B7	237.31	237.29	237.27	237.23	237.17	237.10	237.00	236.88	236.75	236.60	236.45	B7
B8	237.09	237.09	237.07	237.04	236.99	236.92	236.84	236.73	236.60	236.46	236.32	B8
B9	236.92	236.91	236.89	236.86	236.81	236.74	236.66	236.55	236.43	236.29	236.15	B9
B10	236.81	236.79	236.76	236.72	236.67	236.59	236.50	236.38	236.25	236.10	235.95	B10
B11	236.62	236.60	236.57	236.53	236.48	236.40	236.30	236.19	236.06	235.92	235.77	B11
B12	236.46	236.43	236.41	236.37	236.31	236.23	236.14	236.02	235.89	235.75	235.60	B12
B13	236.27	236.25	236.22	236.18	236.12	236.04	235.95	235.83	235.70	235.56	235.41	B13
B14	236.10	236.08	236.05	236.01	235.95	235.87	235.78	235.66	235.53	235.39	235.24	B14
B15	235.91	235.89	235.86	235.82	235.76	235.69	235.59	235.48	235.35	235.20	235.05	B15
B16	235.74	235.72	235.69	235.65	235.59	235.52	235.42	235.31	235.18	235.03	234.88	B16
B17	235.55	235.54	235.51	235.47	235.42	235.34	235.24	235.13	235.00	234.85	234.70	B17
B18	235.39	235.37	235.34	235.30	235.25	235.17	235.08	234.96	234.83	234.68	234.53	B18

Beam	Pier	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	Abut. No. 2	Beam
B19	237.55	237.52	237.49	237.45	237.40	237.34	237.26	237.17	237.08	236.97	236.86	B19
B20	237.36	237.34	237.30	237.26	237.21	237.15	237.07	236.99	236.89	236.78	236.67	B20
B21	237.18	237.14	237.11	237.06	237.01	236.95	236.87	236.79	236.69	236.59	236.48	B21
B22	236.99	236.96	236.92	236.88	236.82	236.76	236.69	236.60	236.50	236.40	236.30	B22
B23	236.80	236.77	236.73	236.69	236.63	236.57	236.50	236.41	236.32	236.21	236.11	B23
B24	236.61	236.58	236.54	236.50	236.45	236.38	236.31	236.22	236.13	236.03	235.92	B24
B25	236.43	236.39	236.36	236.31	236.26	236.20	236.12	236.04	235.94	235.84	235.73	B25
B26	236.29	236.26	236.21	236.16	236.10	236.03	235.95	235.86	235.76	235.65	235.54	B26
B27	236.12	236.10	236.05	236.00	235.94	235.87	235.79	235.70	235.60	235.49	235.37	B27
B28	235.93	235.90	235.87	235.82	235.77	235.71	235.63	235.55	235.45	235.35	235.24	B28
B29	235.74	235.71	235.67	235.63	235.57	235.51	235.43	235.35	235.26	235.15	235.05	B29
B30	235.57	235.54	235.50	235.46	235.40	235.34	235.27	235.18	235.09	234.99	234.88	B30
B31	235.39	235.35	235.31	235.27	235.22	235.15	235.08	234.99	234.90	234.80	234.69	B31
B32	235.22	235.18	235.15	235.10	235.05	234.98	234.91	234.82	234.73	234.63	234.52	B32
B33	235.03	235.00	234.96	234.91	234.86	234.80	234.72	234.64	234.54	234.44	234.34	B33
B34	234.86	234.83	234.79	234.74	234.69	234.63	234.55	234.47	234.37	234.27	234.17	B34
B35	234.67	234.64	234.61	234.57	234.52	234.45	234.38	234.29	234.19	234.09	233.98	B35
B36	234.50	234.47	234.43	234.38	234.32	234.26	234.17	234.08	233.98	233.87	233.75	B36

TABLE OF CAMBER ORDINATES "CO" (IN)

PBU	Abut. No. 1	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	Pier	PBU
1	0"	1 1/16"	2"	2 3/4"	3 1/4"	3 3/8"	3 1/4"	2 3/4"	2"	1 1/16"	0"	1
2	0"	1 1/16"	2"	2 11/16"	3 3/16"	3 5/16"	3 3/16"	2 11/16"	2"	1 1/16"	0"	2
3	0"	1 1/16"	2"	2 11/16"	3 3/16"	3 5/16"	3 3/16"	2 11/16"	2"	1 1/16"	0"	3
4	0"	1 1/16"	2"	2 3/4"	3 3/16"	3 3/8"	3 3/16"	2 3/4"	2"	1 1/16"	0"	4
5	0"	1"	1 5/16"	2 5/8"	3 1/16"	3 1/4"	3 1/16"	2 5/8"	1 5/16"	1"	0"	5
6	0"	1"	1 1/8"	2 5/8"	3 1/16"	3 3/16"	3 1/16"	2 5/8"	1 1/8"	1"	0"	6
7	0"	1"	1 1/8"	2 5/8"	3 1/16"	3 3/16"	3 1/16"	2 5/8"	1 1/8"	1"	0"	7
8	0"	1"	1 1/8"	2 5/8"	3 1/16"	3 3/16"	3 1/16"	2 5/8"	1 1/8"	1"	0"	8
9	0"	1 1/16"	2"	2 11/16"	3 3/16"	3 5/16"	3 3/16"	2 11/16"	2"	1 1/16"	0"	9

PBU	Pier	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	Abut. No. 2	PBU
10	0"	0 5/8"	1 1/8"	1 9/16"	1 7/8"	1 15/16"	1 7/8"	1 9/16"	1 1/8"	0 5/8"	0"	10
11	0"	0 9/16"	1 1/16"	1 7/16"	1 11/16"	1 13/16"	1 11/16"	1 7/16"	1 1/16"	0 9/16"	0"	11
12	0"	0 9/16"	1 1/16"	1 7/16"	1 11/16"	1 3/4"	1 11/16"	1 7/16"	1 1/16"	0 9/16"	0"	12
13	0"	0 9/16"	1 1/16"	1 7/16"	1 11/16"	1 3/4"	1 11/16"	1 7/16"	1 1/16"	0 9/16"	0"	13
14	0"	0 9/16"	1 1/8"	1 1/2"	1 3/4"	1 7/8"	1 3/4"	1 1/2"	1 1/8"	0 9/16"	0"	14
15	0"	0 9/16"	1"	1 3/8"	1 5/8"	1 11/16"	1 5/8"	1 3/8"	1"	0 9/16"	0"	15
16	0"	0 9/16"	1"	1 3/8"	1 5/8"	1 11/16"	1 5/8"	1 3/8"	1"	0 9/16"	0"	16
17	0"	0 9/16"	1"	1 3/8"	1 5/8"	1 11/16"	1 5/8"	1 3/8"	1"	0 9/16"	0"	17
18	0"	0 9/16"	1 1/8"	1 9/16"	1 13/16"	1 7/8"	1 13/16"	1 9/16"	1 1/8"	0 9/16"	0"	18

Beam	"A"
B1	0.62'
B2	0.69'
B3	0.70'
B4	0.70'
B5	0.70'
B6	0.69'
B7	0.69'
B8	0.60'
B9	0.57'
B10	0.69'
B11	0.68'
B12	0.68'
B13	0.68'
B14	0.68'
B15	0.68'
B16	0.68'
B17	0.67'
B18	0.67'

Beam	"B"
B19	0.50'
B20	0.49'
B21	0.49'
B22	0.49'
B23	0.49'
B24	0.48'
B25	0.48'
B26	0.54'
B27	0.52'
B28	0.48'
B29	0.48'
B30	0.47'
B31	0.47'
B32	0.48'
B33	0.47'
B34	0.47'
B35	0.46'
B36	0.42'

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

			DATE

SUPERSTRUCTURE NOTES

1. Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.

2. Form a one inch V-groove on the fascias at the horizontal joint between the curb and slab.

3. The superstructure slab concrete for each prefabricated bridge unit (PBU) shall be placed continuously and shall be kept plastic until the entire placement has been made.

4. Payment for closure pour, link slab, and end diaphragm concrete and reinforcing steel fabricated, delivered, and placed shall be considered incidental to Item 530.04 Prefabricated Bridge Structure and Assembly. See Special Provision 530 for details.

STRUCTURAL STEEL NOTES

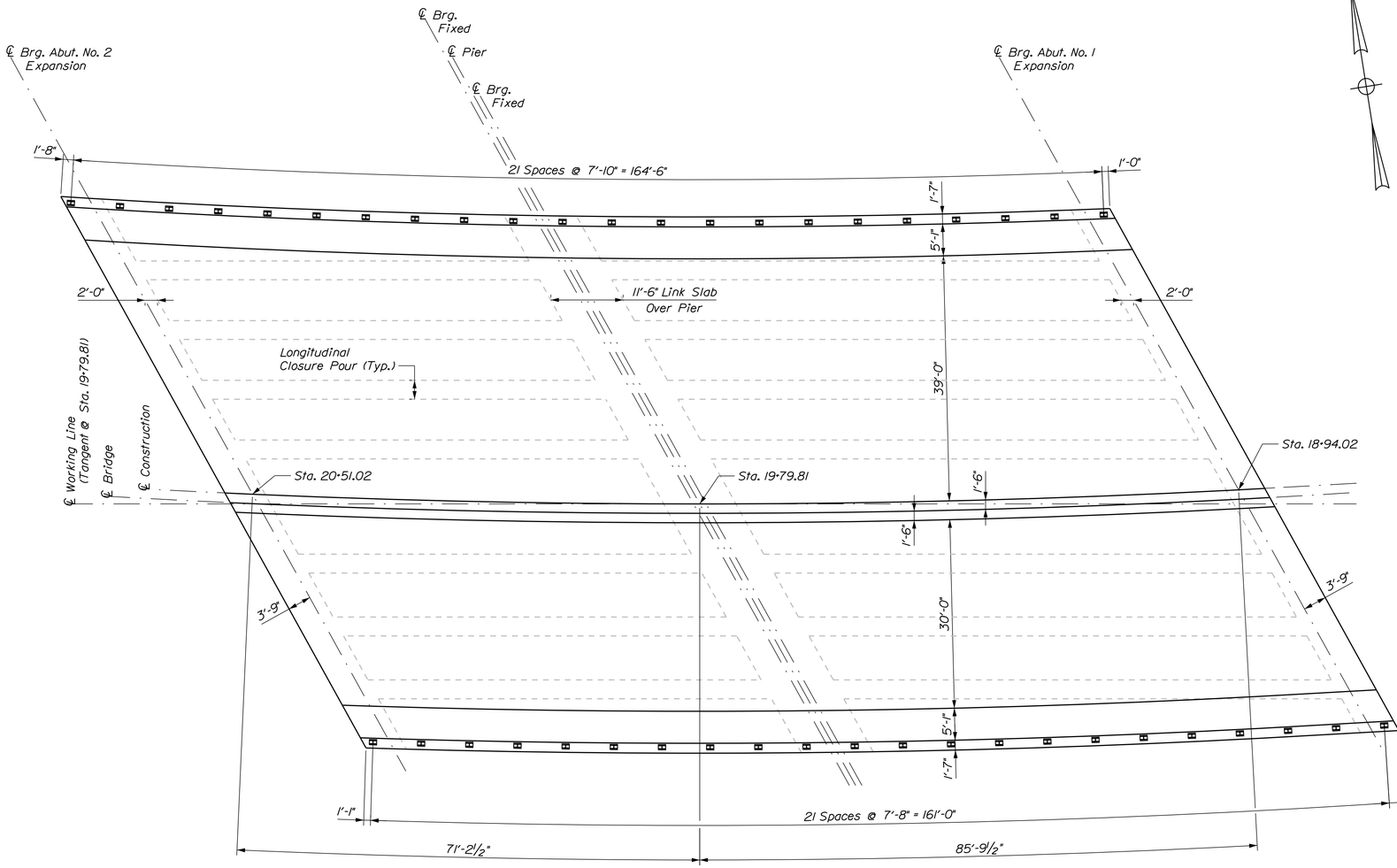
1. Camber ordinates, as shown, are computed to compensate for all dead load deflections and for the curvature of the finished grade profile.

2. The Contractor may substitute welded plate girders in place of the rolled beams shown on the plans, as approved by the Resident. The fabricator shall determine the plate thicknesses based upon the depth and moment of inertia of the rolled section.

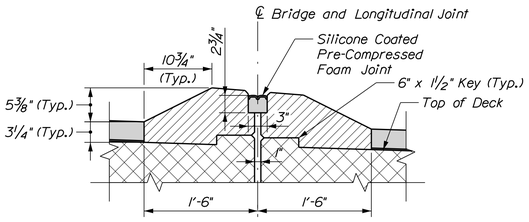
3. All bolts, nuts, and washers shall be hot dip galvanized in accordance with ASTM A153.

4. At the Contractor's option, all Structural Steel may be Hot-Dipped Galvanized in accordance with Standard Specifications Section 506, Shop Applied Protective Coating, as approved by the Resident. Double Hot-Dipped galvanizing shall be approved by the Fabrication Engineer. Payment will be considered incidental to Item 506.9104, Thermal Spray Coating (Shop Applied), no separate payment will be made.

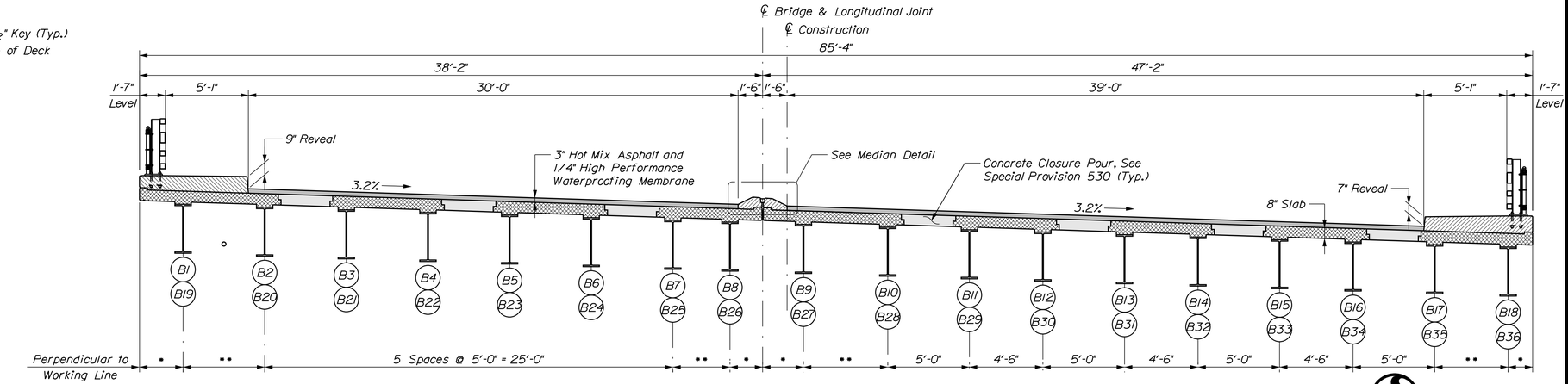
5. Bearing stiffeners shall be plumb after erection and dead loading of the structure.



PBU BID ALTERNATE SUPERSTRUCTURE PLAN



MEDIAN DETAIL



* Fascia and Median Beam Overhangs Vary (1'-6" Min., 3'-0" Max.)
** Fascia and Median Beams Splayed, Spacing Varies (2'-10" Min., 6'-1" Max.)

TRANSVERSE SECTION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS
BRIDGE NO. 5808
WIN 21672.00

	D. EATON	BY	DATE
PROJ. MANAGER			
DESIGN-DETAILED	KLW	KLW	JUNE 2023
CHECKED-REVIEWED	PAG/SJW	SJW/TEK	JUNE 2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

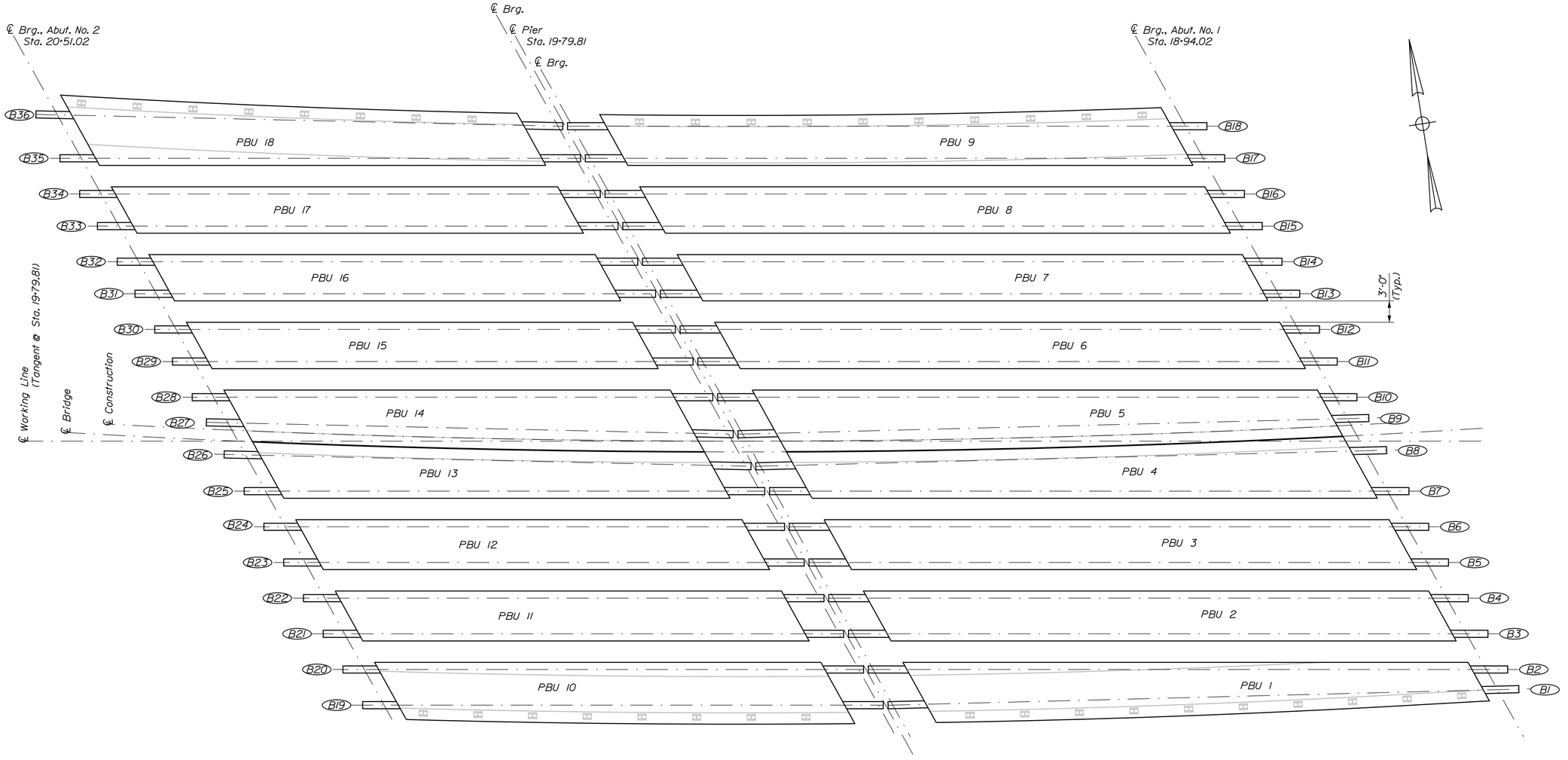
WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

SUPERSTRUCTURE PLAN
PBU

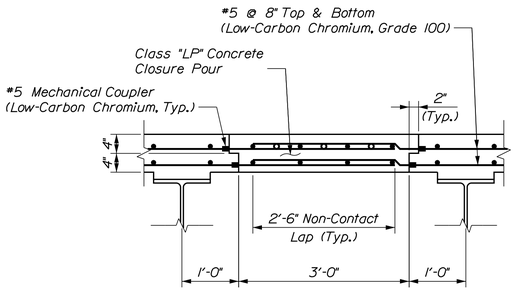
SHEET NUMBER
119
OF 190

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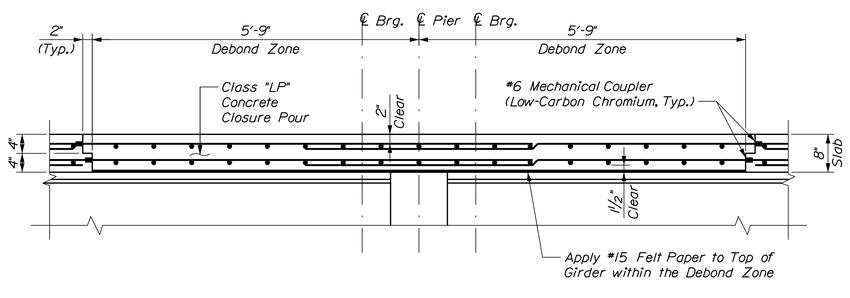
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PRECAST BRIDGE UNIT LAYOUT PLAN



PBU CLOSURE POUR
Non-Contact Laps with Staggered Bars



LINK SLAB AT PIER
Measured Along Working Line

PRECAST BRIDGE UNIT NOTES

1. See Superstructure Plan for additional notes.

2. The theoretical blocking used for the design of the structure is 2½ inches at the centerline of bearing of the abutments and pier. Refer to Standard Detail 502(03) for blocking and drip notch details.

3. The Contractor shall have the option to omit mechanical couplers and extend reinforcing into the closure pours using straight lap splices or overlapping 180 degree hooks. Payment for this reinforcing and all components of mechanical couplers shall be incidental to Item 530.04 Prefabricated Bridge Structure and Assembly. Any alternative reinforcing designs shall be submitted for review and approval.

4. Bottom of slab elevations in the table are based on the design profile shown on Sheet 9. The Contractor shall determine revised bottom of slab elevations for off-site PBU construction based upon their actual off-site working profile, layout, and conditions.

5. After the beams are erected but before the forms are built, elevations on top of the flange of the beams are to be obtained at the points indicated in the site specific bottom of slab elevation table. The difference between the elevations obtained and those shown in the table gives the actual blocking distance from the top of beam to the bottom of slab at centerline of beam.

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

	BY	DATE
PROJ. MANAGER	D. EATON	
DESIGN-DETAILED	KLW/PAG	JUNE 2023
CHECKED-REVIEWED	SJW/TEK	JUNE 2023
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

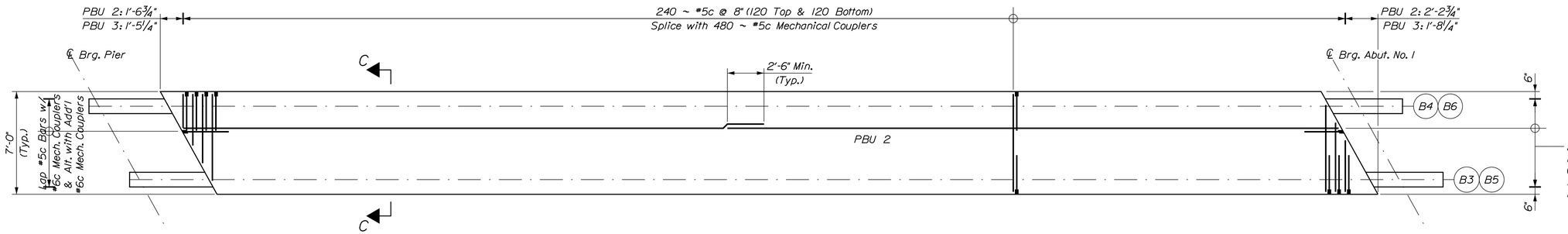
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WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

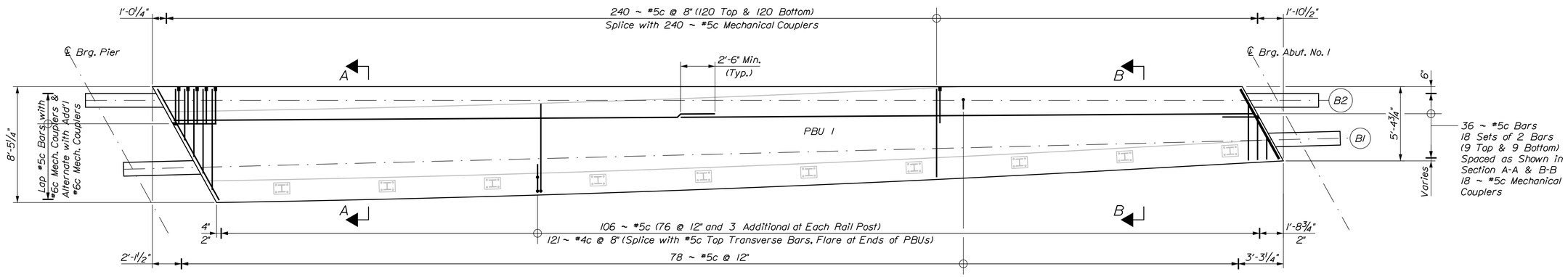
PRECAST BRIDGE UNIT LAYOUT PLAN

SHEET NUMBER
120
OF 190

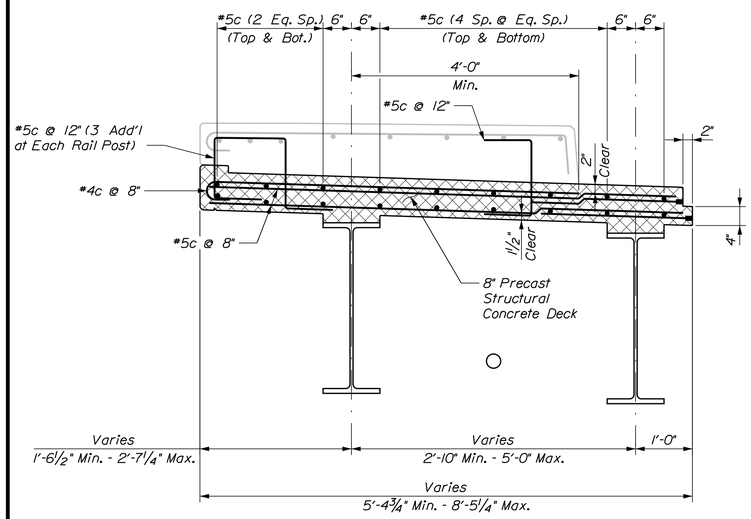
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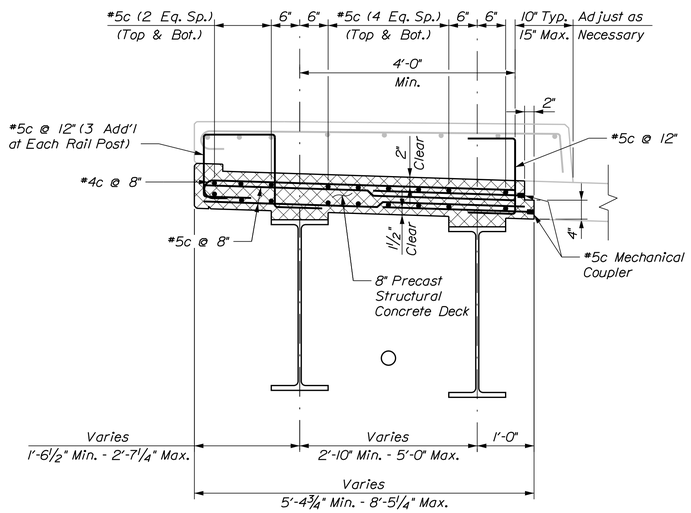
PRECAST BRIDGE UNIT 2 & 3



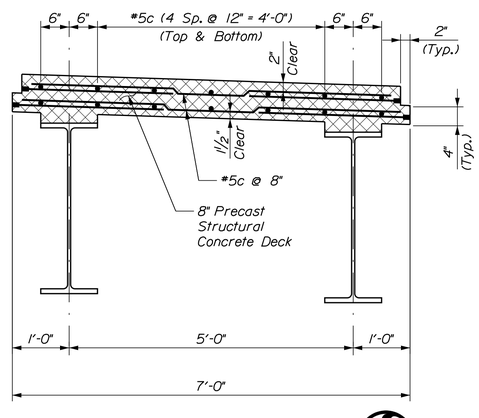
PRECAST BRIDGE UNIT 1



SECTION A-A



SECTION B-B



SECTION C-C

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00

BRIDGE NO. 5808

BRIDGE PLANS

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	KLW/EGM	KLW/EGM	JUNE 2023
CHECKED-REVIEWED	KLW/EGM	KBJ/TEK	JUNE 2023
DESIGN2-DETAILED2	PAC/KBJ		
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REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

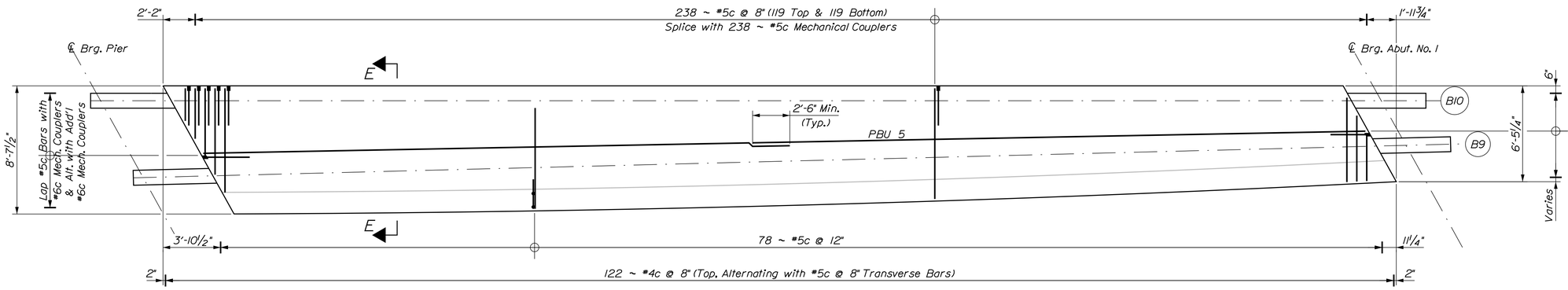
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WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

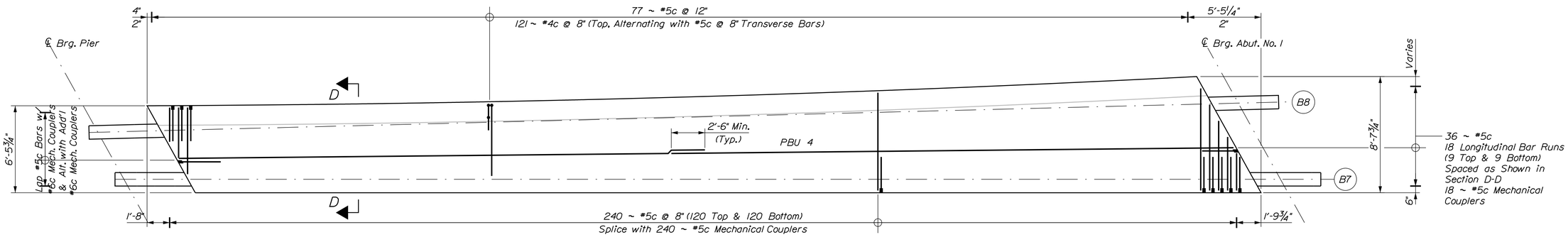
PBU DETAILS (1 OF 6)

SHEET NUMBER
121
OF 190

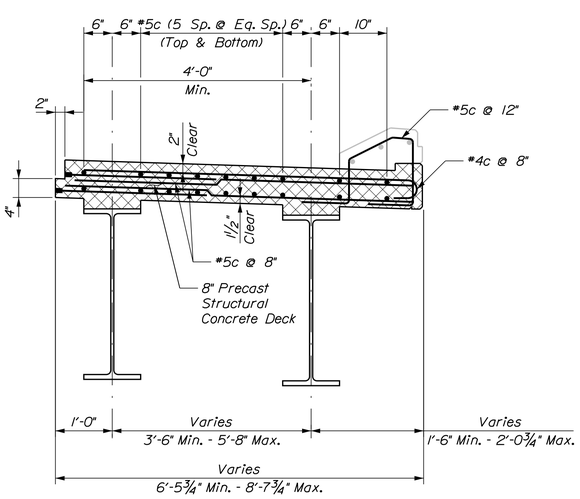
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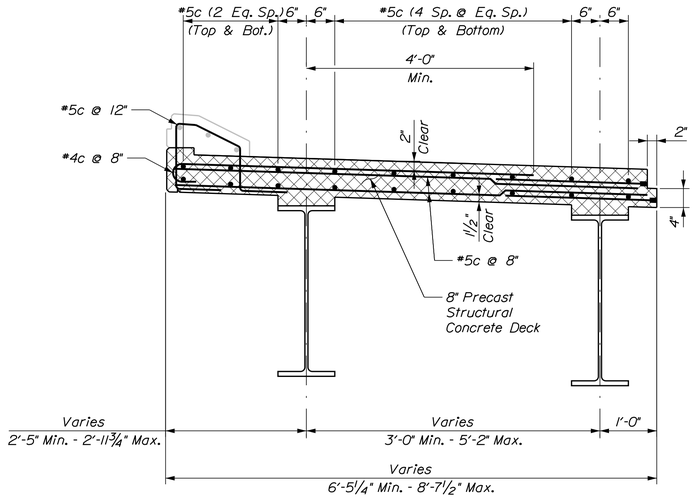
PRECAST BRIDGE UNIT 5



PRECAST BRIDGE UNIT 4



SECTION D-D



SECTION E-E

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	KLW/EGM	KLW/EGM	JUNE 2023
CHECKED-REVIEWED	PAC/KBJ	KBJ/TEK	JUNE 2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

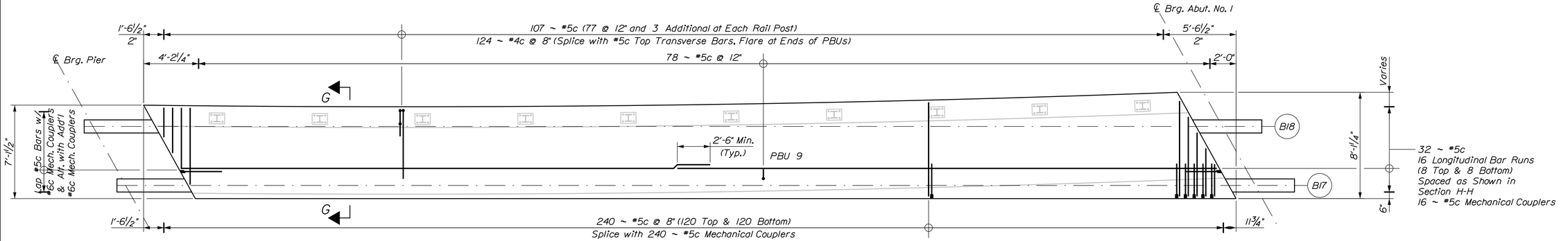
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WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

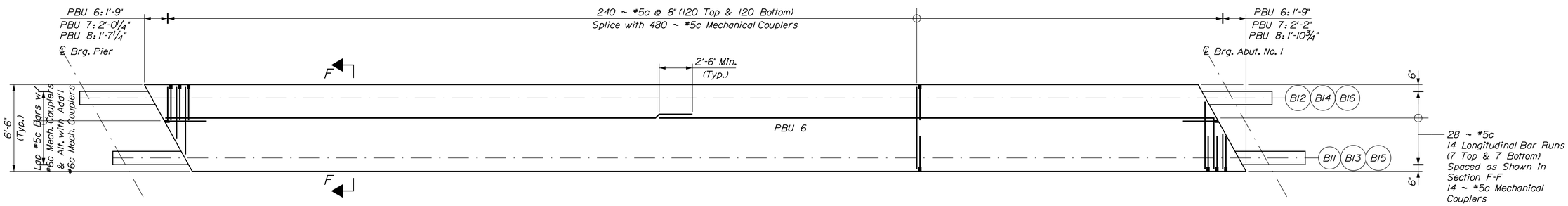
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OF 190

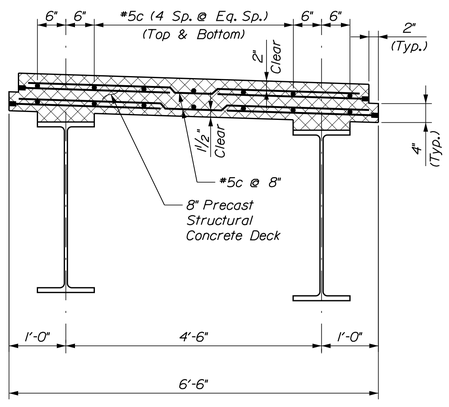
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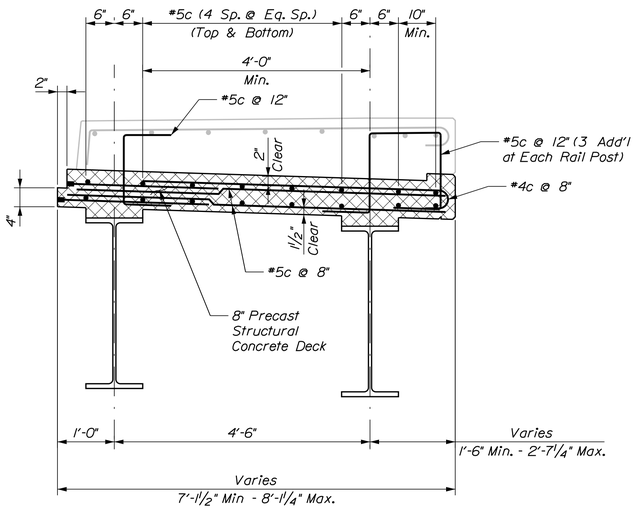
PRECAST BRIDGE UNIT 9



PRECAST BRIDGE UNIT 6, 7, & 8



SECTION F-F



SECTION G-G

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	KLW/EGM	KLW/EGM	JUNE 2023
CHECKED-REVIEWED	PAC/KBJ	KBJ/TEK	JUNE 2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

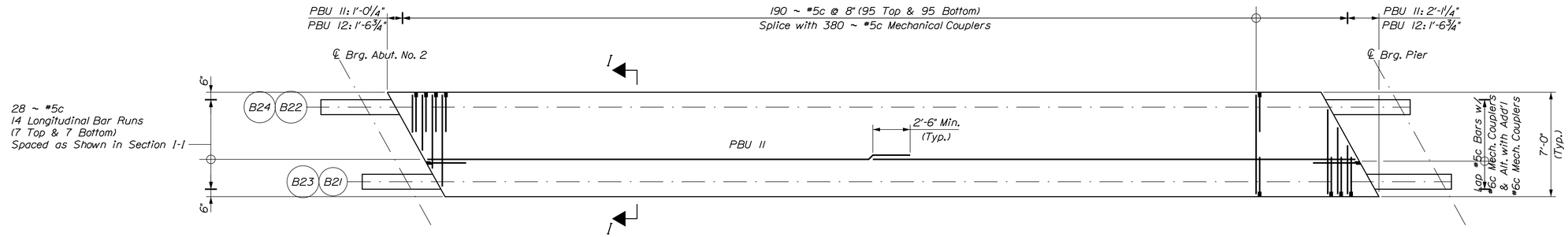
DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

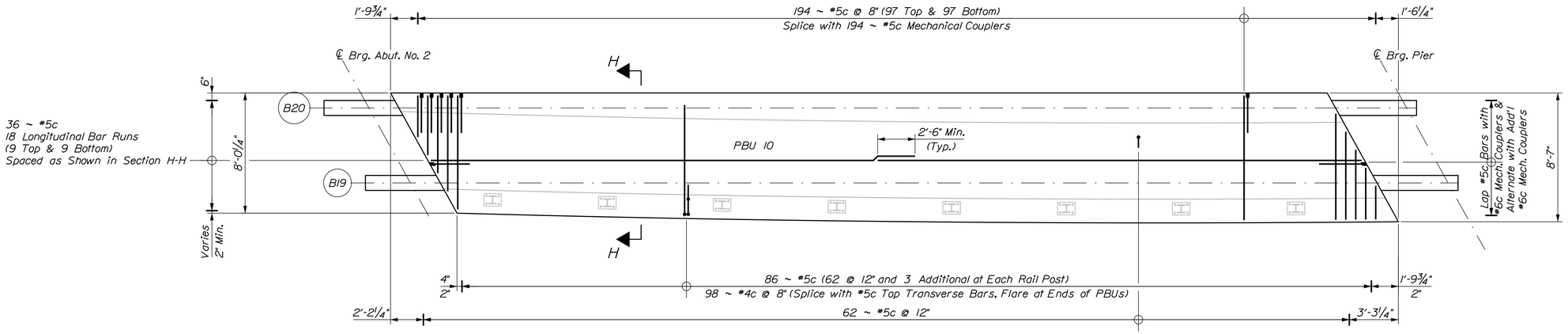
PBU DETAILS (3 OF 6)

SHEET NUMBER
123
OF 190

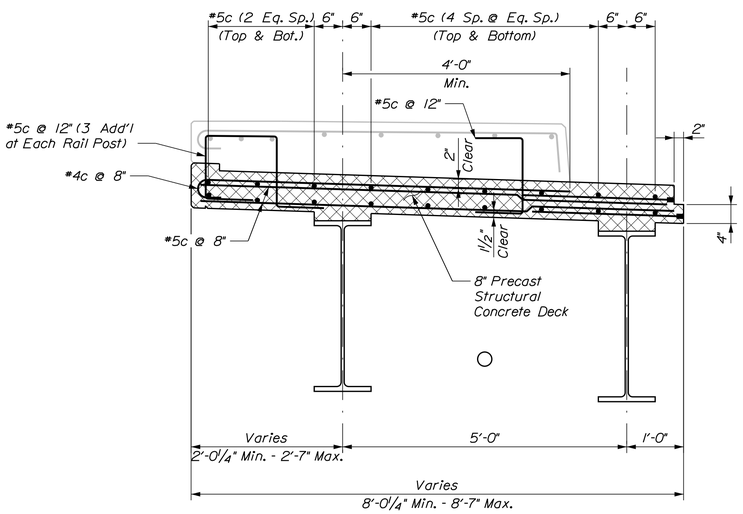
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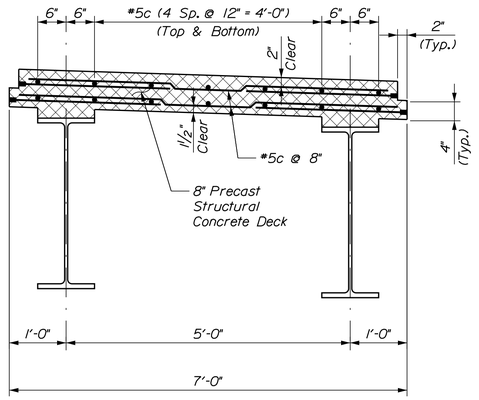
PRECAST BRIDGE UNIT 11 & 12



PRECAST BRIDGE UNIT 10



SECTION H-H



SECTION I-I

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	KLW/EGM	KLW/EGM	JUNE 2023
CHECKED-REVIEWED	PAC/KBJ	KBJ/TEK	JUNE 2023
DESIGN2-DETAILED2	PAC/KBJ		
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FIELD CHANGES			

SIGNATURE

P.E. NUMBER

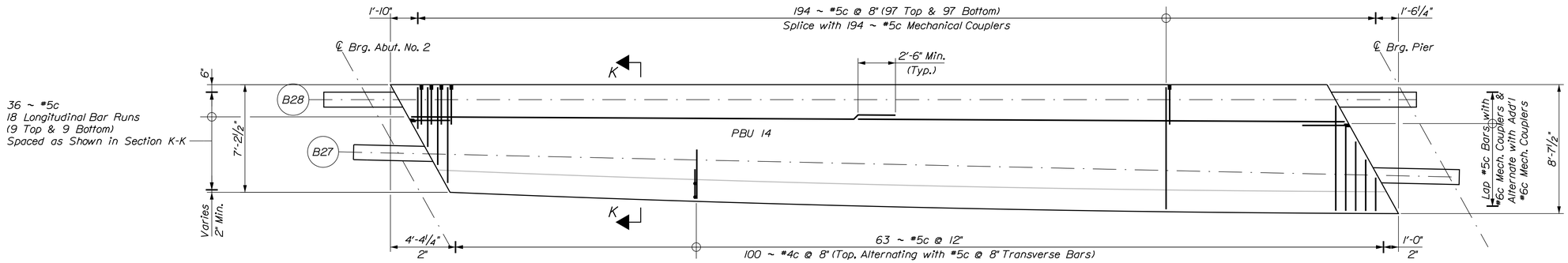
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WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

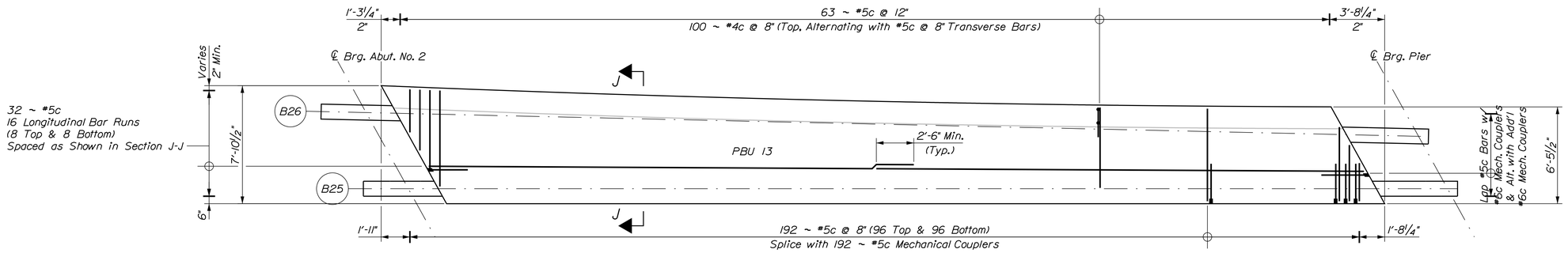
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SHEET NUMBER
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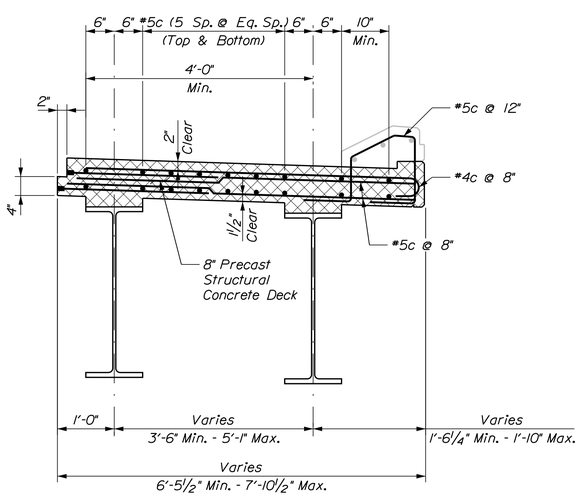
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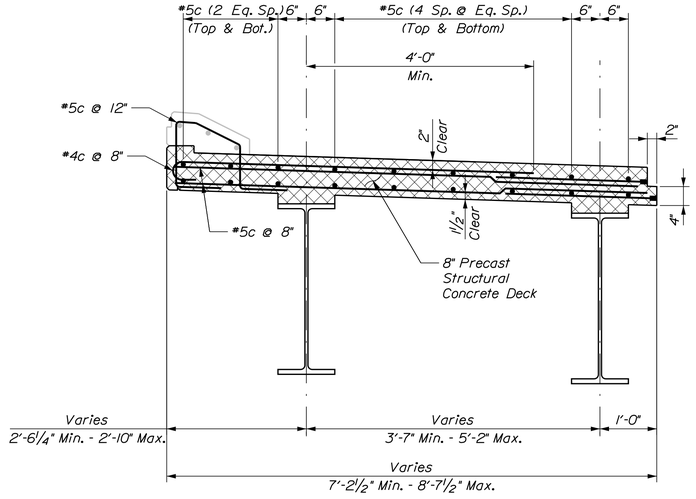
PRECAST BRIDGE UNIT 14



PRECAST BRIDGE UNIT 13



SECTION J-J



SECTION K-K

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	KLW/EGM	KLW/EGM	JUNE 2023
CHECKED-REVIEWED	PAC/KBJ	KBJ/TEK	JUNE 2023
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FIELD CHANGES			

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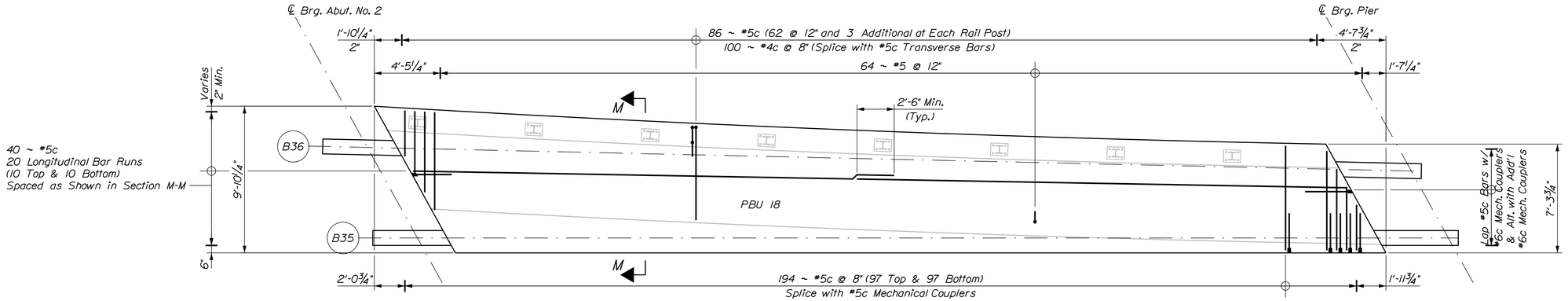
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WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

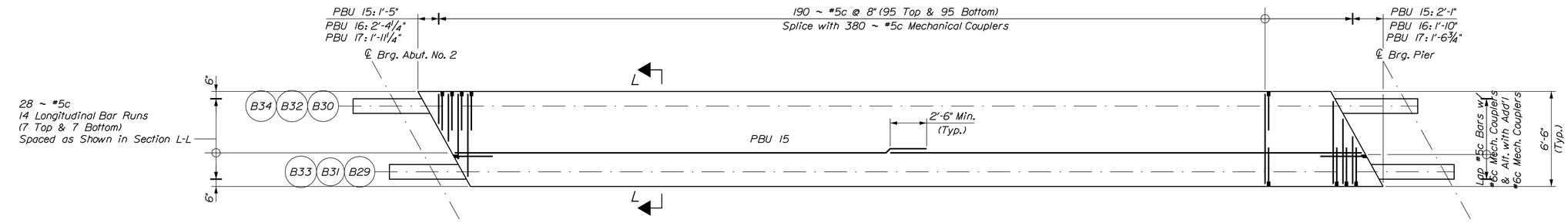
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SHEET NUMBER
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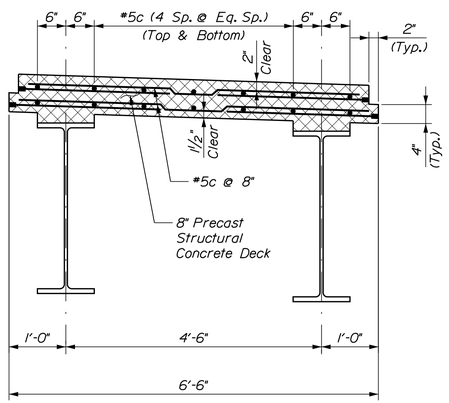
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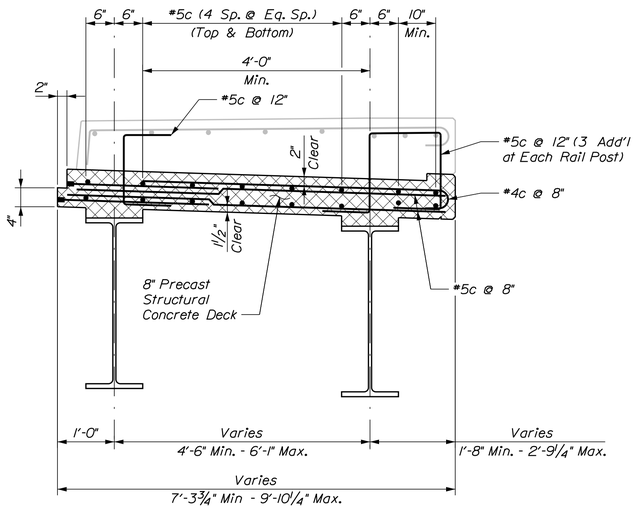
PRECAST BRIDGE UNIT 18



PRECAST BRIDGE UNIT 15, 16, & 17



SECTION L-L



SECTION M-M

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	KLW/EGM	KLW/EGM	JUNE 2023
CHECKED-REVIEWED	PAC/KBJ	KBJ/TEK	JUNE 2023
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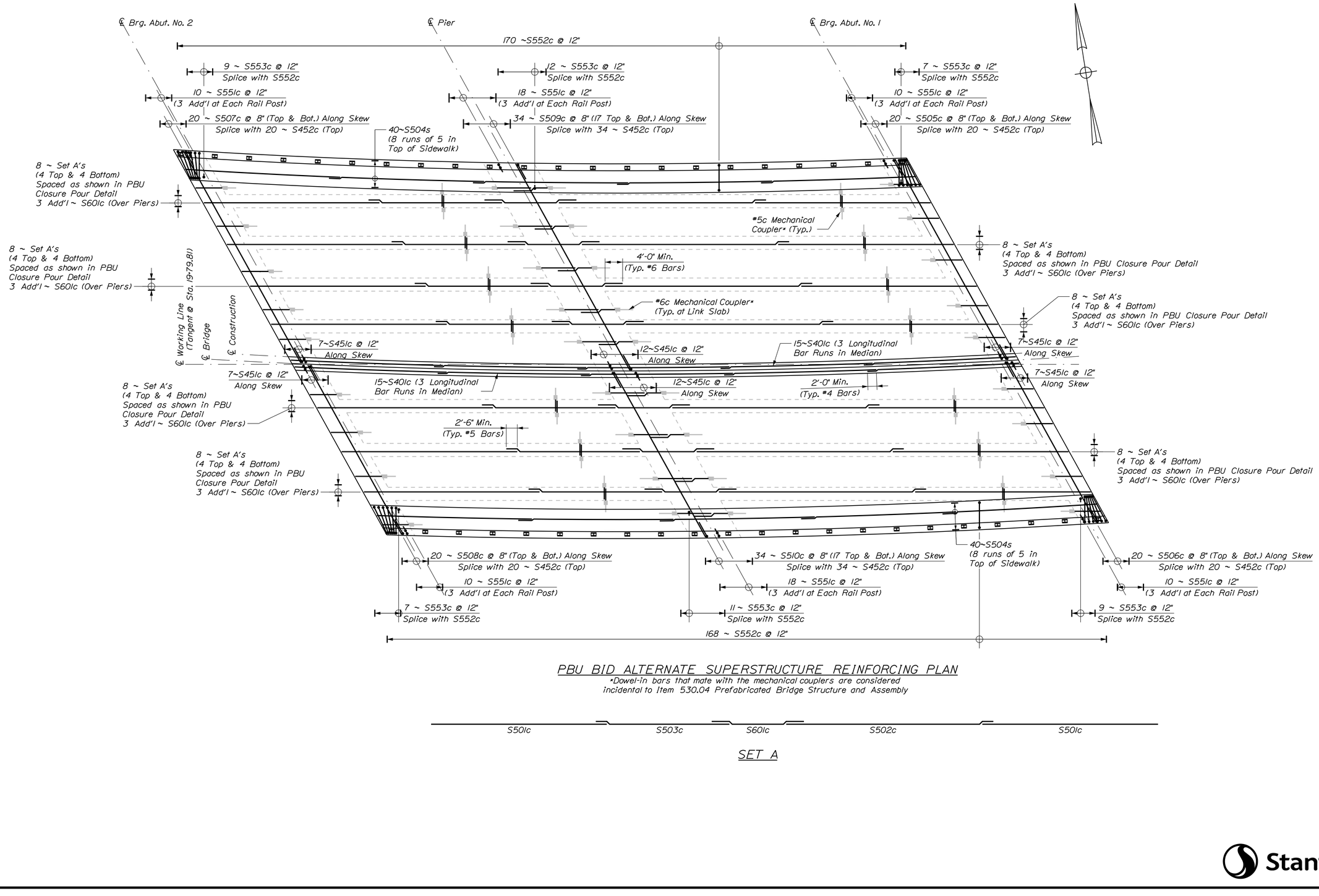
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WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

PBU DETAILS (6 OF 6)

SHEET NUMBER
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OF 190

Filename: ...\21672\00\BRIDGE\MSTA_PBU6.dgn Division: BRIDGE Username: kwight Date:7/18/2023



PBU BID ALTERNATE SUPERSTRUCTURE REINFORCING PLAN

*Dowel-in bars that mate with the mechanical couplers are considered incidental to Item 530.04 Prefabricated Bridge Structure and Assembly

S501c | S503c | S601c | S502c | S501c

SET A

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

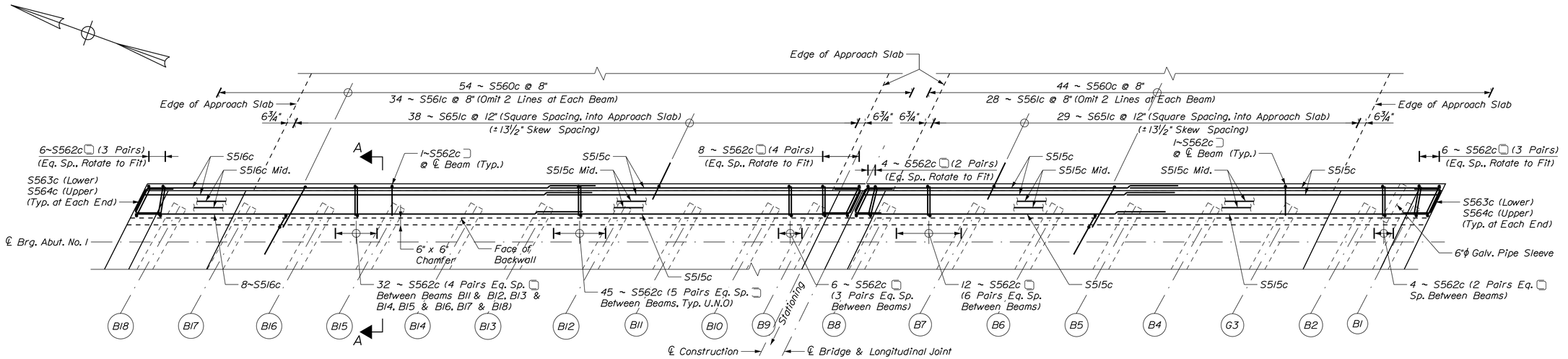
PROJ. MANAGER	D. EATON		
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REVISIONS 1			DATE
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WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

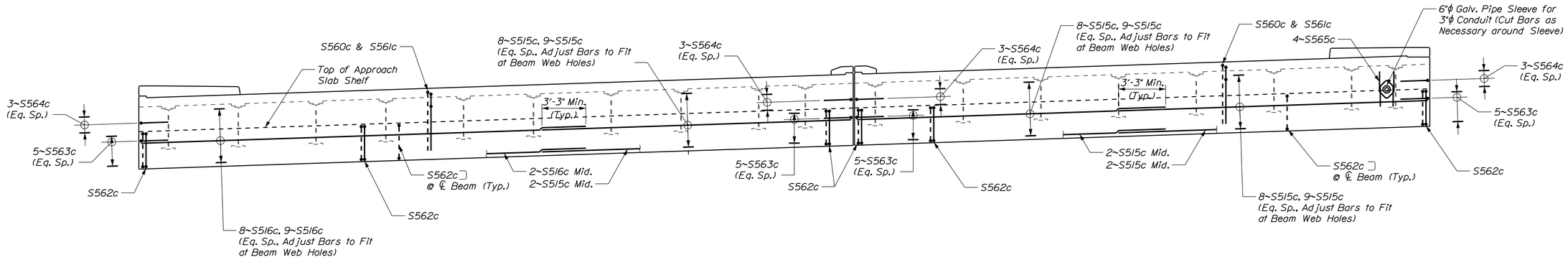
SUPER. REINFORCING PLAN
PBU

SHEET NUMBER
127
OF 190

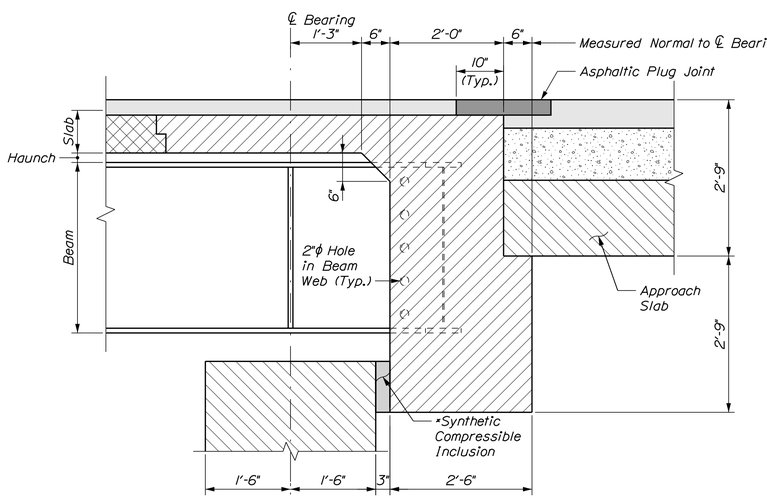
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ABUTMENT NO. 1 SEMI-INTEGRAL ABUTMENT BACKWALL PLAN

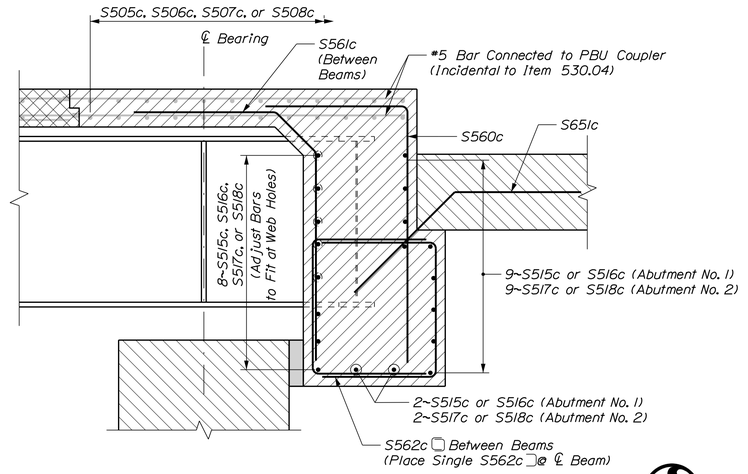


ABUTMENT NO. 1 SEMI-INTEGRAL ABUTMENT BACKWALL ELEVATION



SECTION A-A

*Refer to Special Provision Section 620



SECTION A-A - REINFORCING DETAIL

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

P.E. NUMBER

DATE

SIGNATURE

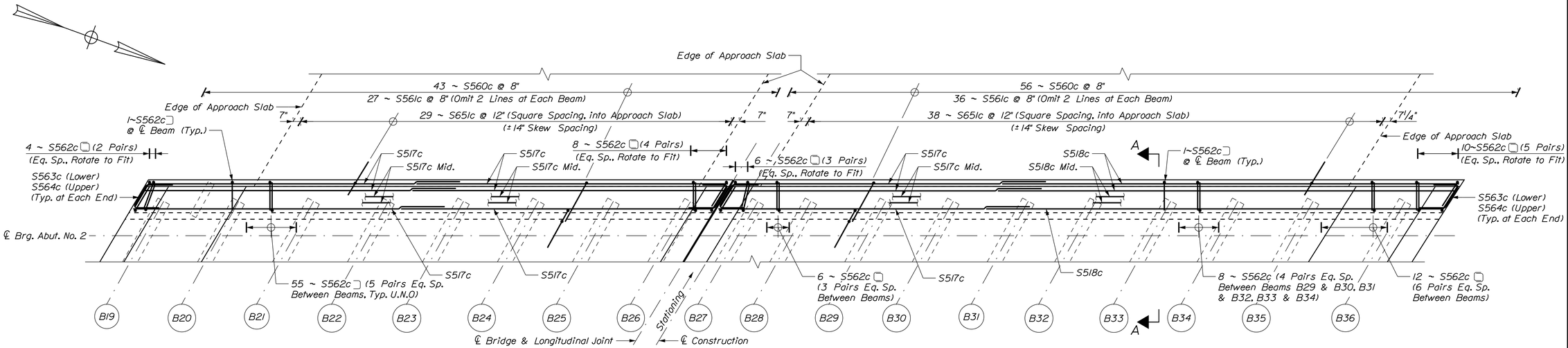
	D. EATON	DATE
PROJ. MANAGER		
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CHECKED-REVIEWED	LSF/KBJ	JUNE 2023
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

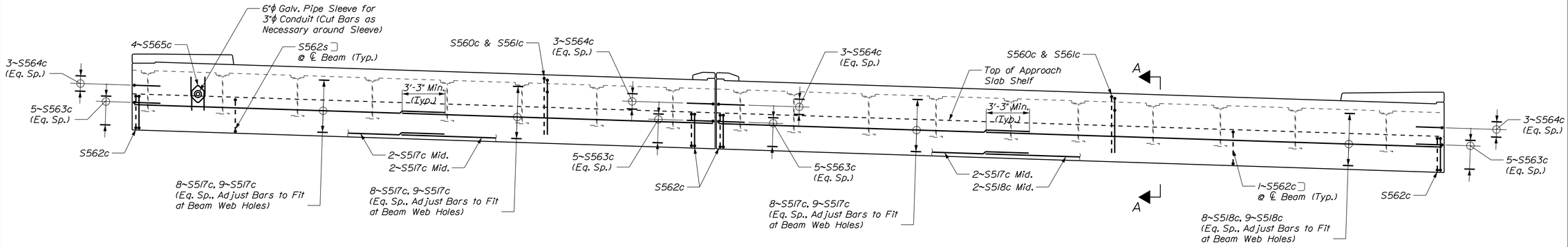
SUPERSTRUCTURE DETAILS
ABUT. NO. 1 END - PBU

SHEET NUMBER
128
OF 190

Filename: ...\MSTA_End_Diaphragm_PBU1.dgn Division: BRIDGE Username: kwright Date:7/18/2023



ABUTMENT NO. 2 SEMI-INTEGRAL ABUTMENT BACKWALL PLAN



ABUTMENT NO. 2 SEMI-INTEGRAL ABUTMENT BACKWALL ELEVATION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS

WIN 21672.00

BRIDGE NO. 5808

	BY	DATE
PROJ. MANAGER	D. EATON	
DESIGN-DETAILED	KLW/PAG	JUNE 2023
CHECKED-REVIEWED	LSF/KBJ	JUNE 2023
DESIGN2-DETAILED2		
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FIELD CHANGES		

SIGNATURE

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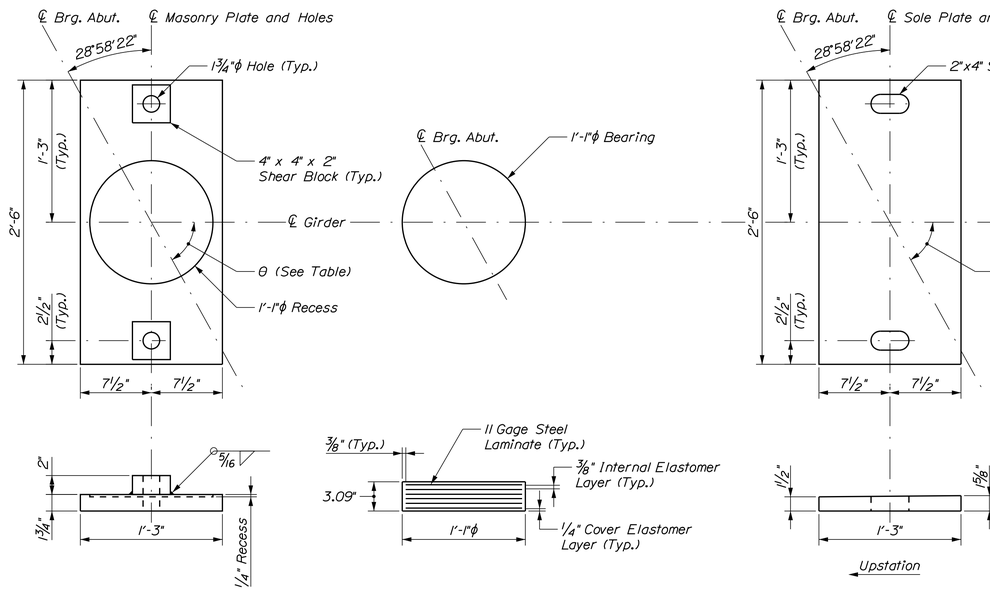
WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

SUPERSTRUCTURE DETAILS
ABUT. NO. 2 END - PBU

SHEET NUMBER
129
OF 190

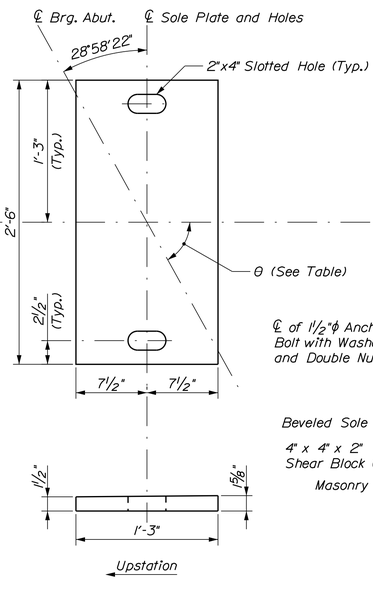
Stantec

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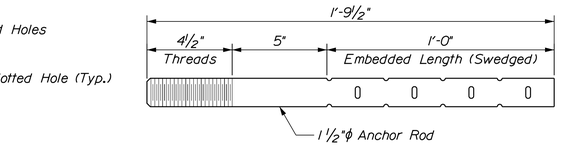


MASONRY PLATE

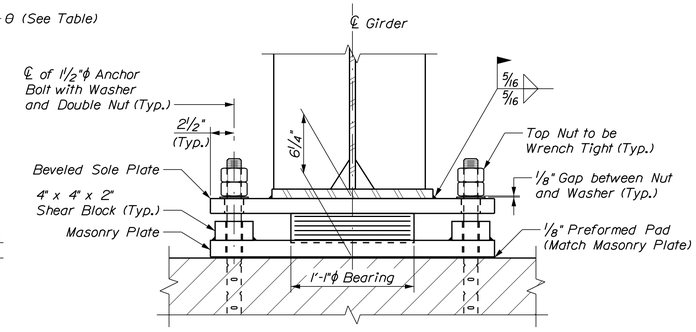
ELASTOMERIC BEARING PAD



BEVELED SOLE PLATE



ANCHOR ROD DETAIL - EXP. BEARINGS
(2 per bearing assembly)



EXPANSION BEARING ELEVATION
(26 Assemblies Required)

ELASTOMERIC BEARING NOTES

1. The shear modulus of the elastomer shall be 150 psi.

2. Vulcanization of the elastomer to the steel plates shall be done during the primary mold process. Sole plate shall be vulcanized to the elastomer.

3. Masonry plates, sole plates and shear blocks shall meet the requirements of ASTM A709, Grade 50. Anchor rods shall meet the requirements of ASTM F1554, Grade 105 and shall be swedged on the embedded portion of the rod.

4. Masonry plates shall be galvanized or metalized in accordance with Section 506. Sole plates for steel superstructures shall be treated in the same manner as the structural steel. Anchor rods, washers, nuts and shear blocks shall be galvanized to ASTM A153 or ASTM B695, Class 50, Type I.

5. All bearings shall be marked prior to shipping. The marks shall include the bearing location on the bridge and a direction arrow that points upstation. All marks shall be permanent and shall be visible after the bearing is installed.

6. Bearings shall be covered during shipping and at any time prior to installation that the bearings may be exposed to sunlight.

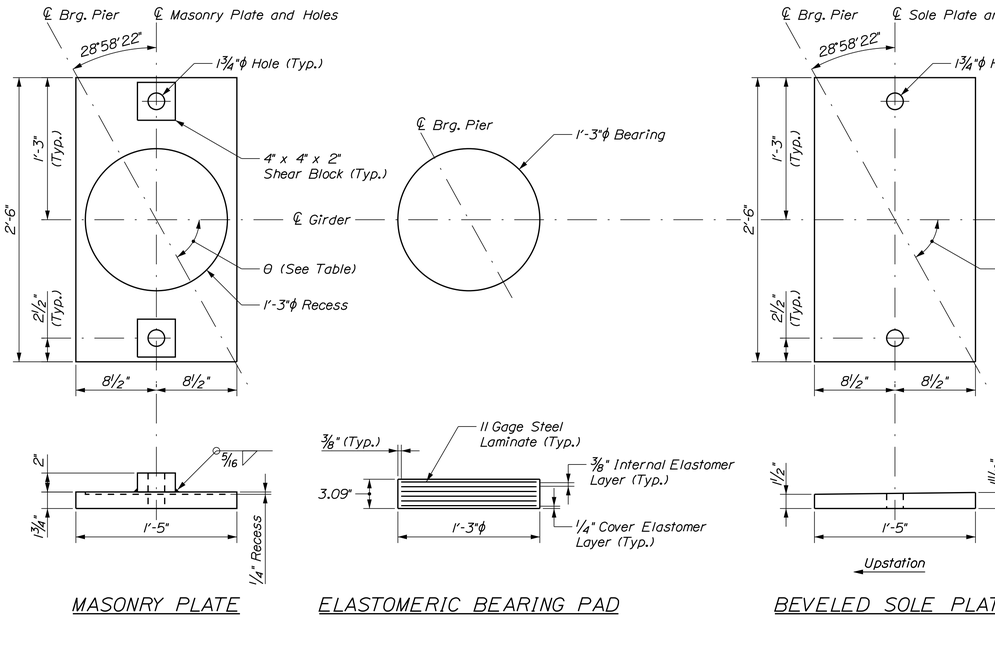
7. The superstructure may be erected when the ambient air temperature is within the range of 65° F and 90° F. Bearings are designed such that the slotted holes in the sole plate are centered on the anchor bolts when erected within this range. If the ambient air temperature is outside this range, the bearings shall be reset as directed by the Resident.

8. All necessary precautions shall be taken to protect bearing components from field weld flash and spatter. Heat from welding operations shall be controlled such that steel adjacent to the elastomer does not exceed 200° F. The temperature shall be verified by the use of temperature indicating crayons or other suitable means.

9. Upset the threads on the anchor rods after assembly of the bearing.

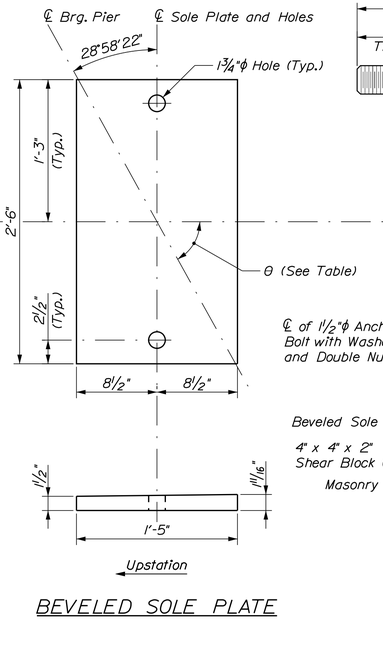
10. The Contractor shall not weld the girders to the sole plate until after all adjustments have been made in accordance with Standard Specification Section 523.094.

11. The "Bearing Design Load" for each bearing as noted in Standard Specifications, subsection 523.23.4, is 150 kips for the expansion bearings at the abutments and 235 kips for the fixed bearings at the pier. This is the total load for the Service I load combination, without impact.

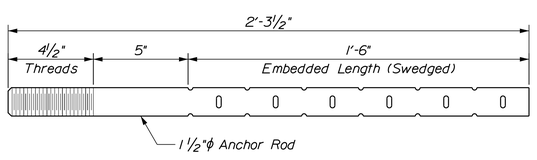


MASONRY PLATE

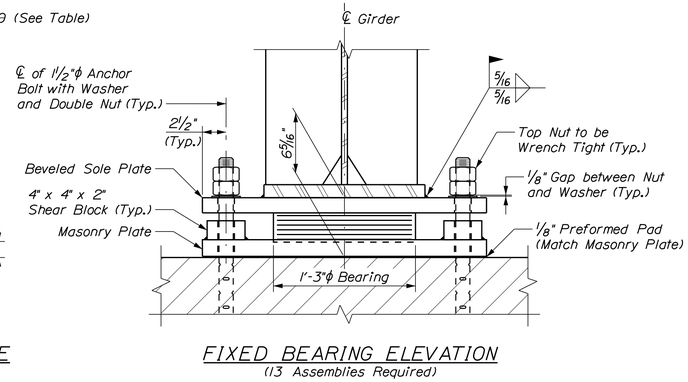
ELASTOMERIC BEARING PAD



BEVELED SOLE PLATE



ANCHOR ROD DETAIL - FIXED BEARINGS
(2 per bearing assembly)



FIXED BEARING ELEVATION
(13 Assemblies Required)

BEARING ANGLES, θ

Barrel	Girder	Abutment 1	Pier	Abutment 2
Eastbound	1	64° 38' 52"	61° 43' 45"	59° 18' 36"
	2	64° 32' 21"	61° 36' 21"	59° 10' 26"
	3	64° 25' 47"	61° 28' 53"	59° 02' 12"
	4	64° 19' 09"	61° 21' 21"	58° 53' 53"
	5	64° 12' 27"	61° 13' 45"	58° 45' 29"
	6	64° 05' 42"	61° 06' 05"	58° 37' 00"
Westbound	7	64° 00' 36"	61° 00' 17"	58° 30' 35"
	8	63° 53' 24"	60° 52' 05"	58° 21' 32"
	9	63° 46' 07"	60° 43' 48"	58° 12' 23"
	10	63° 38' 46"	60° 35' 27"	58° 03' 08"
	11	63° 31' 21"	60° 27' 00"	57° 53' 48"
	12	63° 23' 52"	60° 18' 29"	57° 44' 22"
	13	63° 16' 18"	60° 09' 52"	57° 34' 49"

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	PAG	JUNE 2023	SIGNATURE
CHECKED-REVIEWED	LSF/EGM	JUNE 2023	P.E. NUMBER
DESIGN2-DETAILED2	PAG		
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FIELD CHANGES			

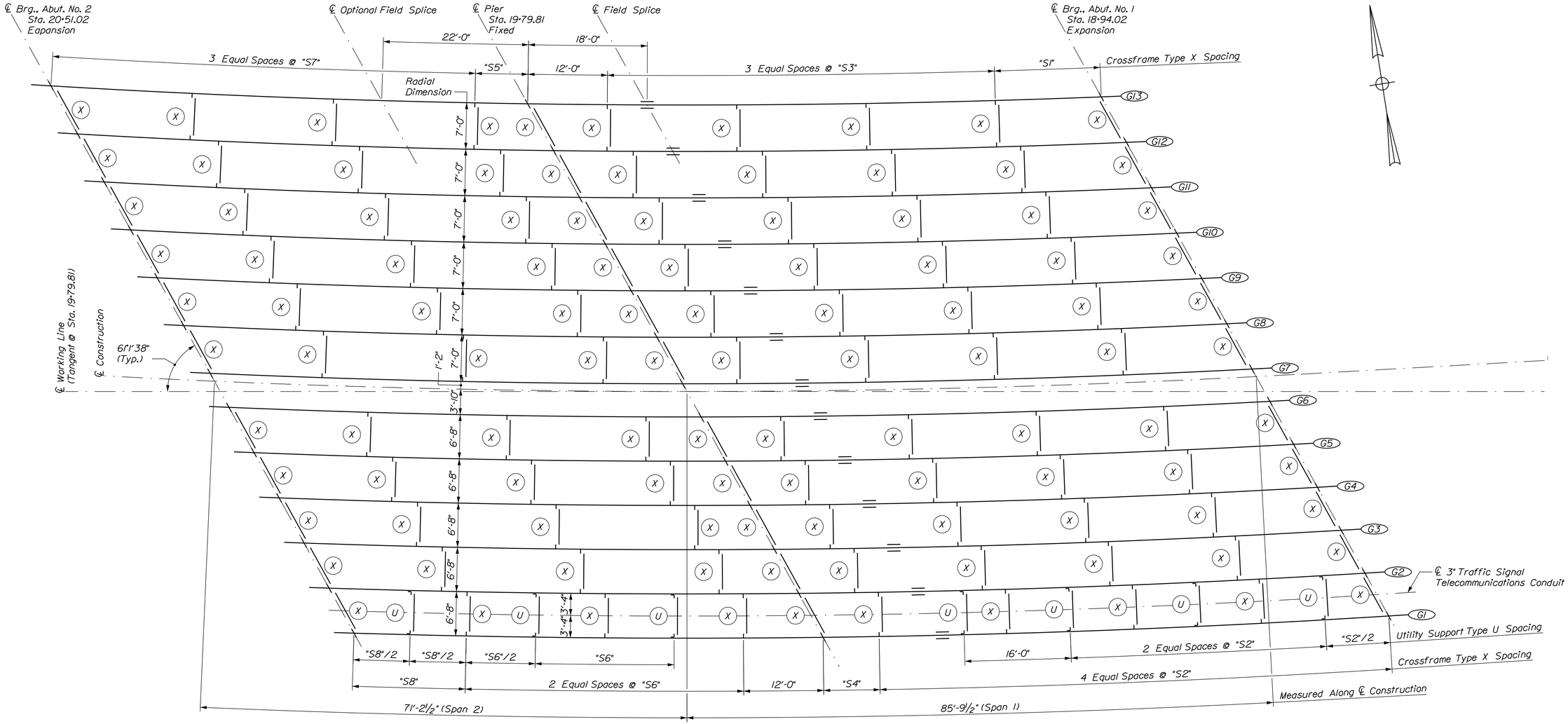
WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

BEARING DETAILS
CURVED GIRDER

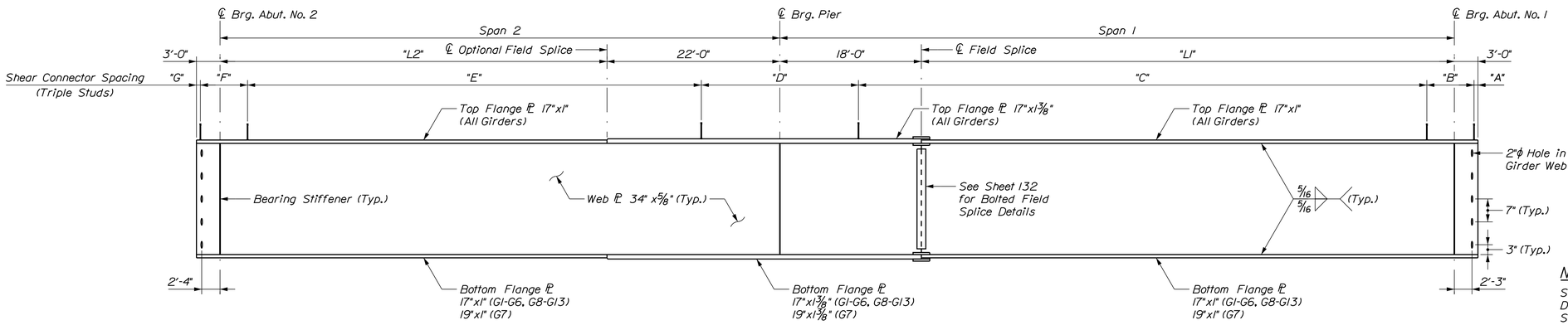
SHEET NUMBER
130
OF 190

Stantec

Filename: ...\MSTA_Bearings_curved.dgn Username: kwight Division: BRIDGE Date:7/18/2023



FRAMING PLAN



GIRDER ELEVATION

Vertical Scale Exaggerated for Clarity

NOTE

See Table on Sheet 132 for Girder Dimensions, Framing Geometry, and Shear Connector Spacing.

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00

BRIDGE NO. 5808

BRIDGE PLANS

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	PAG	BY	DATE
CHECKED-REVIEWED	LSF/EGM	TEK	JUNE 2023
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SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

FRAMING PLAN
CURVED GIRDER

SHEET NUMBER

131

OF 190

Filename: ...\MSTA_Framing_curved.dgn Division: BRIDGE Username: kwight Date:7/18/2023

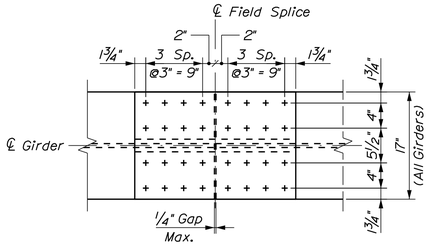
GIRDER DIMENSIONS AND FRAMING GEOMETRY

Barrel	Girder	Span 1	Span 2	Radius	L1	L2	S1	S2	S3	S4	S5	S6	S7	S8
Eastbound	1	85'-3 7/16"	70'-8 3/16"	1674'-2 1/4"	67'-3 7/16"	48'-8 3/16"	--	19'-2 1/2"	--	8'-5 3/8"	--	20'-10 5/8"	--	16'-10 5/16"
	2	85'-4 7/16"	70'-9 5/16"	1667'-6 1/4"	67'-4 7/16"	48'-9 5/16"	15'-11 11/16"	19'-2 13/16"	19'-1 5/8"	8'-5 1/8"	8'-4 3/8"	20'-11 1/16"	20'-9 5/8"	16'-11 1/8"
	3	85'-5 1/2"	70'-10 7/16"	1660'-10 1/4"	67'-5 1/2"	48'-10 7/16"	15'-11 5/16"	19'-3 1/8"	19'-1 5/16"	8'-4 5/16"	8'-4 1/8"	20'-11 9/16"	20'-10 1/16"	16'-11 5/16"
	4	85'-6 5/8"	70'-11 9/16"	1654'-2 1/4"	67'-6 5/8"	48'-11 9/16"	15'-11 5/16"	19'-3 1/2"	19'-2 1/4"	8'-4 1/16"	8'-3 15/16"	21'-0"	20'-10 9/16"	16'-11 1/2"
	5	85'-7 11/16"	71'-0 11/16"	1647'-6 1/4"	67'-7 11/16"	49'-0 11/16"	16'-0 1/16"	19'-3 13/16"	19'-2 9/16"	8'-4 7/16"	8'-3 11/16"	21'-0 1/2"	20'-11"	16'-11 11/16"
	6	85'-8 13/16"	71'-1 15/16"	1640'-10 1/4"	67'-8 13/16"	49'-1 15/16"	16'-0 3/16"	--	19'-2 7/8"	--	8'-3 7/16"	--	20'-11 7/16"	--
Westbound	7	85'-9 11/16"	71'-2 3/4"	1635'-10 1/4"	67'-9 11/16"	49'-2 3/4"	--	19'-4 15/16"	--	8'-1 3/16"	--	21'-2 1/8"	--	16'-10 7/16"
	8	85'-10 7/8"	71'-4"	1628'-10 1/4"	67'-10 7/8"	49'-4"	15'-11"	19'-5 5/16"	19'-3 15/16"	8'-1 9/16"	8'-0 3/16"	21'-2 11/16"	21'-1 1/16"	16'-10 5/8"
	9	86'-0 1/8"	71'-5 1/4"	1621'-10 1/4"	68'-0 1/8"	49'-5 1/4"	15'-11 1/8"	19'-5 11/16"	19'-4 5/16"	8'-1 5/16"	8'-0 9/16"	21'-3 3/16"	21'-1 9/16"	16'-10 7/8"
	10	86'-1 3/8"	71'-6 9/16"	1614'-10 1/4"	68'-1 3/8"	49'-6 9/16"	15'-11 1/4"	19'-6 1/16"	19'-4 11/16"	8'-1 1/16"	8'-0 1/4"	21'-3 3/4"	21'-2 1/8"	16'-11 1/16"
	11	86'-2 5/8"	71'-7 7/8"	1607'-10 1/4"	68'-2 5/8"	49'-7 7/8"	15'-11 7/16"	19'-6 7/16"	19'-5 1/16"	8'-0 3/4"	8'-0"	21'-4 5/16"	21'-2 5/8"	16'-11 5/16"
	12	86'-3 15/16"	71'-9 1/4"	1600'-10 1/4"	68'-3 15/16"	49'-9 1/4"	15'-11 9/16"	19'-6 7/8"	19'-5 7/16"	8'-0 1/2"	7'-11 11/16"	21'-4 7/8"	21'-3 1/16"	16'-11 9/16"
	13	86'-5 1/4"	71'-10 5/8"	1593'-10 1/4"	68'-5 1/4"	49'-10 5/8"	15'-11 3/4"	--	19'-5 13/16"	--	7'-11 7/16"	--	21'-3 3/4"	--

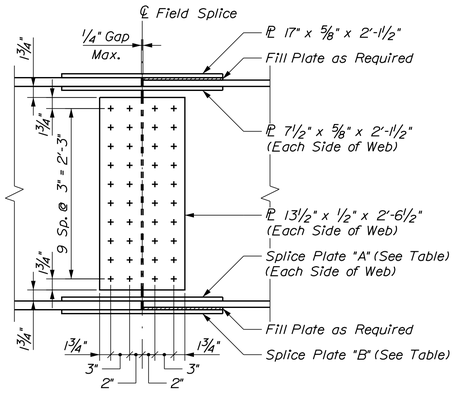
SHEAR CONNECTOR SPACING

Barrel	Girder	A	B	C	D	E	F	G	Total Studs
Eastbound	1	4 1/4"	25 Sp. @ 6" = 12'-6"	87 Sp. @ 9" = 65'-3"	40 Sp. @ 6" = 20'-0"	68 Sp. @ 9" = 51'-0"	25 Sp. @ 6" = 12'-6"	4 3/8"	738
	2	4"	323 Sp. @ 6" = 161'-6"	--	--	--	--	3 3/4"	972
	3	5"	323 Sp. @ 6" = 161'-6"	--	--	--	--	4 15/16"	972
	4	3"	324 Sp. @ 6" = 162'-0"	--	--	--	--	3 1/8"	975
	5	4 1/4"	324 Sp. @ 6" = 162'-0"	--	--	--	--	4 1/8"	975
	6	5 1/4"	25 Sp. @ 6" = 12'-6"	88 Sp. @ 9" = 66'-0"	40 Sp. @ 6" = 20'-0"	68 Sp. @ 9" = 51'-0"	25 Sp. @ 6" = 12'-6"	5 1/16"	741
Westbound	7	6 1/4"	12 Sp. @ 6" = 6'-0"	108 Sp. @ 8" = 72'-0"	40 Sp. @ 6" = 20'-0"	87 Sp. @ 8" = 58'-0"	12 Sp. @ 6" = 6'-0"	6 1/8"	780
	8	4 1/2"	325 Sp. @ 6" = 162'-6"	--	--	--	--	4 3/8"	978
	9	5 3/4"	325 Sp. @ 6" = 162'-6"	--	--	--	--	5 5/8"	978
	10	4"	326 Sp. @ 6" = 163'-0"	--	--	--	--	3 15/16"	981
	11	5 1/4"	326 Sp. @ 6" = 163'-0"	--	--	--	--	5 1/4"	981
	12	3 1/2"	327 Sp. @ 6" = 163'-6"	--	--	--	--	3 5/8"	984
	13	6"	12 Sp. @ 6" = 6'-0"	109 Sp. @ 8" = 72'-8"	40 Sp. @ 6" = 20'-0"	88 Sp. @ 8" = 58'-8"	12 Sp. @ 6" = 6'-0"	5 13/16"	786

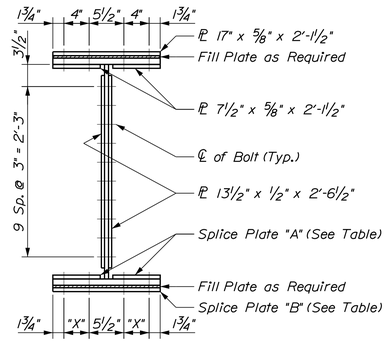
Refer to Framing Plan and Girder Elevation on Sheet 131 for values in table.



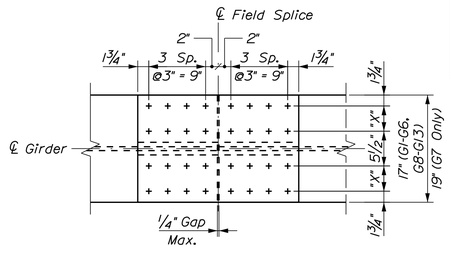
TOP VIEW



ELEVATION



SECTION



BOTTOM VIEW

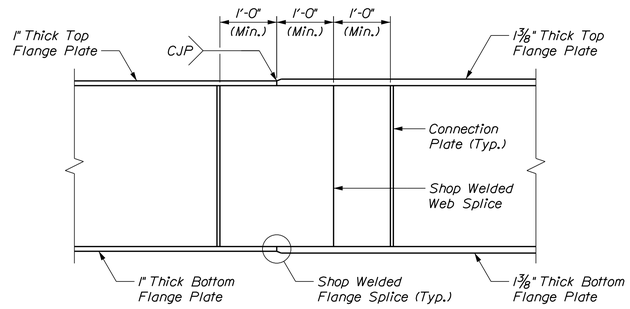
BOTTOM FLANGE SPLICE PLATE DIMENSIONS

Girder	Splice Plate "A"	Splice Plate "B"	Dim. "X"
G1-G6, G8-G13	7 1/2" x 5/8" x 2'-11/2"	17" x 5/8" x 2'-11/2"	4"
G7	8 1/2" x 5/8" x 2'-11/2"	19" x 5/8" x 2'-11/2"	5"

NOTES

1. Bolted field splice details shown here applicable to both the field splice within Span 1 and the optional field splice within Span 2 (if used).
2. + Denotes 7/8"ϕ ASTM A325 high-strength bolt in 15/16"ϕ hole.
3. See Structural Steel Notes on Sheet 134 for additional notes.

BOLTED FIELD SPLICE



WELDED SPLICE TRANSITION DETAIL

TABLE OF STRESS DIAGRAM DIMENSIONS

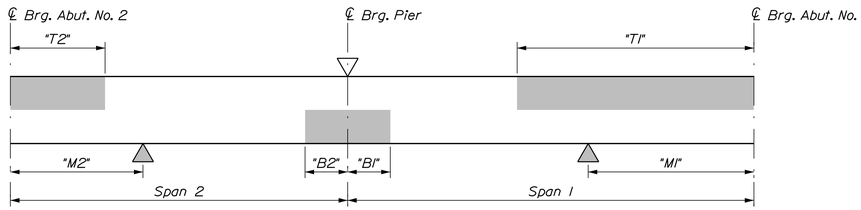
Barrel	Girder	T1	T2	B1	B2	M1	M2
Eastbound	1	48'-0"	9'-0"	9'-0"	12'-0"	38'-0"	28'-0"
	2-5	51'-0"	19'-0"	9'-0"	9'-0"	34'-0"	28'-0"
	6	45'-0"	15'-0"	12'-0"	9'-0"	34'-0"	28'-0"
Westbound	7	49'-0"	8'-0"	9'-0"	12'-0"	39'-0"	29'-0"
	8-12	52'-0"	20'-0"	9'-0"	9'-0"	35'-0"	29'-0"
	13	46'-0"	14'-0"	12'-0"	9'-0"	35'-0"	29'-0"

KEY

▽ Maximum Negative Moment

△ Maximum Positive Moment

Indicates areas always in compression. All other areas are in tension or have stress reversals.



GIRDER STRESS DIAGRAM

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

PROJ. MANAGER	D. EATON
DESIGN-DETAILED	PAG
CHECKED-REVIEWED	LSF/EGM
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	

	DATE	BY
REVISIONS 1	JUNE 2023	PAG
REVISIONS 2	JUNE 2023	TEK
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

P.E. NUMBER

SIGNATURE

DATE

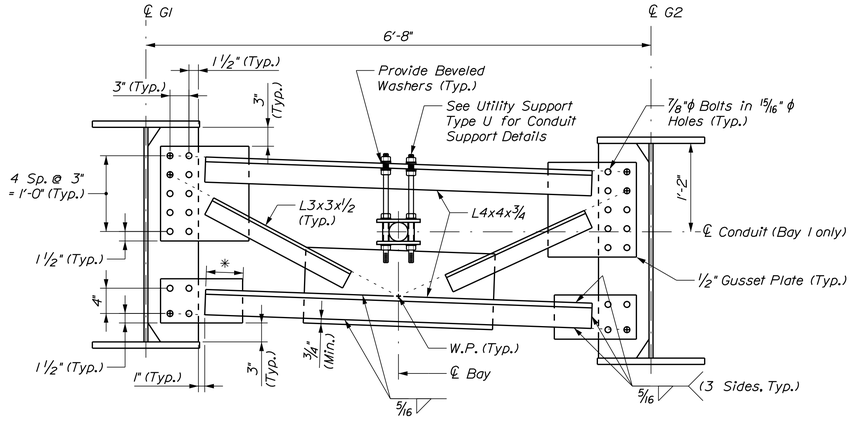
WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

STRUCTURAL STEEL DETAILS CURVED GIRDER

SHEET NUMBER
132
OF 190

Stantec

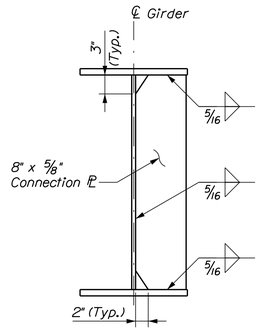
Filename: ..._Framing_Details_curved1.dgn Division: BRIDGE Username: kwright Date:7/18/2023



* - 6" Min. (Typ.)

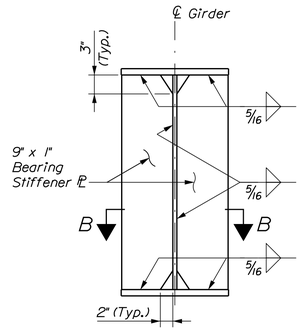
CROSSFRAME TYPE X

See Notes on Supplemental Standard Detail 504(07)
Bay 1 Shown, Other Bays Similar (no utility)
Bolt threads shall be excluded from the shear plane of crossframe connections.



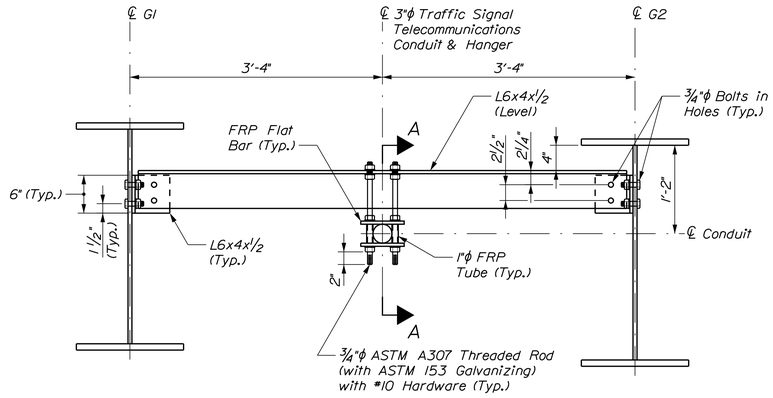
CONNECTION PLATE AT RADIAL CROSSFRAMES

(Bolt holes not shown for clarity)



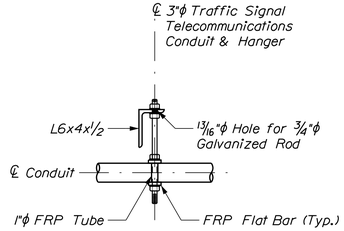
BEARING STIFFENERS AT ABUTMENTS AND PIERS

(Bolt holes not shown for clarity)

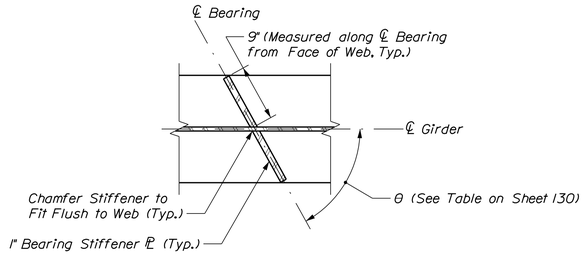


UTILITY SUPPORT TYPE U

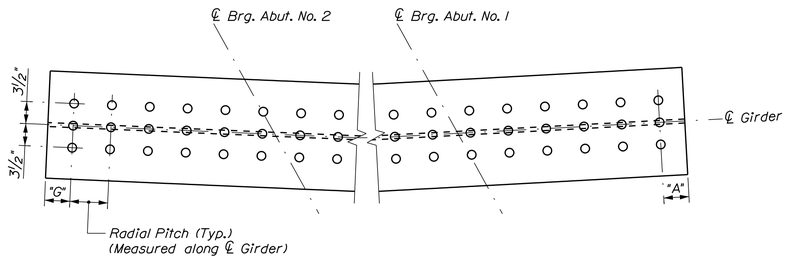
Bay 1 Only



SECTION A-A



SECTION B-B



NOTES

1. See Table on Sheet 132 for Shear Connector Spacing.
2. See Standard Detail 505(01) for additional information.

SHEAR CONNECTOR DETAIL

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	PAG	JUNE 2023	
CHECKED-REVIEWED	LSF/EGM	JUNE 2023	
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BY | DATE | SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

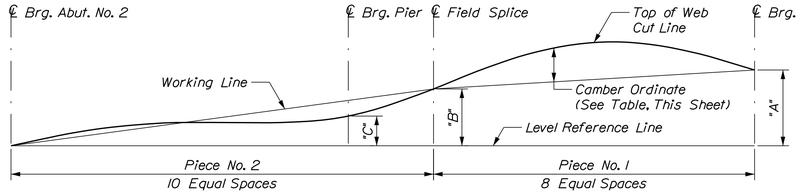
STRUCTURAL STEEL DETAILS
CURVED GIRDER

SHEET NUMBER
133
OF 190

Filename: ..._Framing_Details_curved2.dgn Division: BRIDGE Username: kwight Date:7/18/2023

CAMBER ORDINATES (IN)

Barrel	Girder	"A"	"B"	"C"	℄ Brg. Abut. 1	Piece No. 1 ~ 1/8 Points 0.125	0.250	0.375	0.500	0.625	0.750	0.875	℄ Field Splice	Piece No. 2 ~ Tenth Points 0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	℄ Brg. Abut. 2
Eastbound	1	18.33	11.10	8.29	0.00	0.51	0.93	1.20	1.29	1.19	0.90	0.49	0.00	-0.34	-0.56	-0.55	-0.40	-0.19	0.01	0.14	0.17	0.12	0.00
	2	18.41	11.16	8.34	0.00	0.51	0.94	1.21	1.30	1.19	0.91	0.49	0.00	-0.34	-0.55	-0.53	-0.37	-0.15	0.06	0.18	0.20	0.13	0.00
	3	18.50	11.22	8.38	0.00	0.51	0.94	1.21	1.30	1.19	0.91	0.49	0.00	-0.34	-0.55	-0.52	-0.35	-0.12	0.08	0.20	0.22	0.15	0.00
	4	18.59	11.27	8.43	0.00	0.51	0.93	1.20	1.29	1.18	0.90	0.48	0.00	-0.33	-0.53	-0.50	-0.33	-0.10	0.10	0.22	0.24	0.15	0.00
	5	18.68	11.31	8.47	0.00	0.49	0.90	1.16	1.24	1.14	0.87	0.46	0.00	-0.32	-0.51	-0.48	-0.31	-0.09	0.11	0.23	0.24	0.15	0.00
	6	18.78	11.34	8.52	0.00	0.46	0.85	1.09	1.17	1.07	0.81	0.44	0.00	-0.30	-0.48	-0.44	-0.28	-0.08	0.11	0.21	0.22	0.14	0.00
Westbound	7	18.86	11.41	8.55	0.00	0.51	0.93	1.21	1.30	1.19	0.91	0.49	0.00	-0.34	-0.55	-0.54	-0.39	-0.18	0.02	0.14	0.18	0.12	0.00
	8	18.96	11.48	8.60	0.00	0.53	0.97	1.25	1.34	1.23	0.94	0.51	0.00	-0.35	-0.56	-0.54	-0.37	-0.14	0.07	0.19	0.22	0.14	0.00
	9	19.07	11.55	8.65	0.00	0.54	0.99	1.28	1.37	1.26	0.96	0.51	0.00	-0.35	-0.57	-0.54	-0.36	-0.12	0.09	0.22	0.24	0.15	0.00
	10	19.18	11.61	8.70	0.00	0.55	1.00	1.29	1.38	1.27	0.97	0.52	0.00	-0.35	-0.57	-0.53	-0.35	-0.11	0.11	0.23	0.25	0.16	0.00
	11	19.29	11.66	8.75	0.00	0.54	0.99	1.28	1.37	1.26	0.96	0.51	0.00	-0.35	-0.56	-0.52	-0.34	-0.10	0.12	0.24	0.26	0.16	0.00
	12	19.40	11.70	8.81	0.00	0.53	0.96	1.24	1.33	1.22	0.93	0.49	0.00	-0.34	-0.54	-0.50	-0.32	-0.08	0.13	0.25	0.26	0.16	0.00
	13	19.51	11.71	8.86	0.00	0.50	0.90	1.17	1.25	1.15	0.87	0.46	0.00	-0.32	-0.51	-0.46	-0.29	-0.07	0.13	0.24	0.24	0.15	0.00



CAMBER DIAGRAM

BOTTOM OF SLAB ELEVATIONS

Barrel	Girder	℄ Brg. Abut. 1	Span 1 ~ Tenth Points 0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	℄ Brg. Pier	Span 2 ~ Tenth Points 0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	℄ Brg. Abut. 2
Eastbound	1	238.59	238.54	238.49	238.43	238.36	238.28	238.18	238.07	237.96	237.85	237.75	237.68	237.61	237.55	237.49	237.43	237.36	237.29	237.22	237.14	237.06
	2	238.34	238.30	238.25	238.19	238.12	238.03	237.93	237.83	237.71	237.60	237.50	237.43	237.36	237.30	237.24	237.18	237.11	237.04	236.97	236.89	236.81
	3	238.10	238.05	238.00	237.94	237.87	237.78	237.69	237.58	237.47	237.36	237.25	237.18	237.12	237.05	236.99	236.93	236.86	236.79	236.72	236.64	236.56
	4	237.85	237.81	237.76	237.70	237.62	237.54	237.44	237.33	237.22	237.11	237.01	236.93	236.87	236.80	236.74	236.68	236.61	236.54	236.47	236.39	236.30
	5	237.61	237.56	237.51	237.45	237.37	237.28	237.19	237.08	236.97	236.86	236.76	236.68	236.62	236.55	236.49	236.43	236.36	236.29	236.21	236.13	236.05
	6	237.36	237.31	237.26	237.19	237.12	237.03	236.93	236.82	236.71	236.61	236.51	236.43	236.37	236.30	236.24	236.17	236.11	236.03	235.96	235.88	235.80
Westbound	7	237.18	237.13	237.08	237.02	236.94	236.86	236.76	236.65	236.53	236.42	236.32	236.24	236.17	236.11	236.05	235.98	235.91	235.84	235.77	235.69	235.61
	8	236.92	236.87	236.82	236.76	236.69	236.60	236.50	236.39	236.27	236.16	236.06	235.98	235.91	235.85	235.78	235.72	235.65	235.58	235.50	235.42	235.34
	9	236.66	236.62	236.57	236.50	236.43	236.34	236.24	236.13	236.01	235.90	235.79	235.72	235.65	235.58	235.52	235.46	235.39	235.32	235.24	235.16	235.07
	10	236.40	236.36	236.31	236.25	236.17	236.08	235.98	235.87	235.75	235.63	235.53	235.45	235.38	235.32	235.26	235.19	235.12	235.05	234.97	234.89	234.80
	11	236.14	236.10	236.05	235.98	235.91	235.82	235.71	235.60	235.48	235.37	235.26	235.19	235.12	235.05	234.99	234.93	234.86	234.78	234.70	234.62	234.53
	12	235.88	235.84	235.78	235.72	235.64	235.55	235.45	235.34	235.22	235.10	235.00	234.92	234.85	234.79	234.72	234.66	234.59	234.51	234.44	234.35	234.27
	13	235.62	235.57	235.52	235.45	235.37	235.28	235.18	235.07	234.95	234.84	234.73	234.66	234.59	234.52	234.46	234.39	234.32	234.24	234.16	234.08	234.00

DEAD LOAD DEFLECTIONS (IN)

Barrel	Girder	Dead Load Component	℄ Brg. Abut. 1	Span 1 ~ Tenth Points 0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	℄ Brg. Pier	Span 2 ~ Tenth Points 0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	℄ Brg. Abut. 2
Eastbound	1	Steel Dead Load	0.00	0.13	0.23	0.31	0.35	0.34	0.30	0.22	0.14	0.06	0.00	-0.01	0.00	0.02	0.05	0.07	0.08	0.08	0.06	0.03	0.00
		Fluid Dead Load	0.00	0.43	0.79	1.05	1.17	1.15	1.00	0.75	0.46	0.19	0.00	-0.05	-0.02	0.05	0.13	0.20	0.24	0.24	0.19	0.11	0.00
		Superimposed Dead Load	0.00	0.05	0.09	0.12	0.14	0.13	0.12	0.09	0.05	0.02	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.03	0.02	0.01	0.00
	2	Steel Dead Load	0.00	0.12	0.23	0.30	0.34	0.33	0.29	0.22	0.13	0.05	0.00	-0.01	0.00	0.02	0.05	0.07	0.08	0.08	0.06	0.04	0.00
		Fluid Dead Load	0.00	0.44	0.81	1.07	1.19	1.17	1.01	0.76	0.47	0.19	0.00	-0.04	0.00	0.08	0.16	0.24	0.28	0.27	0.22	0.12	0.00
		Superimposed Dead Load	0.00	0.05	0.09	0.12	0.13	0.13	0.11	0.09	0.05	0.02	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.03	0.02	0.01	0.00
	3	Steel Dead Load	0.00	0.12	0.22	0.30	0.33	0.32	0.28	0.21	0.13	0.05	0.00	-0.01	0.00	0.03	0.05	0.07	0.08	0.08	0.06	0.04	0.00
		Fluid Dead Load	0.00	0.44	0.81	1.07	1.20	1.17	1.02	0.76	0.46	0.19	0.00	-0.03	0.01	0.09	0.18	0.26	0.30	0.29	0.23	0.13	0.00
		Superimposed Dead Load	0.00	0.05	0.09	0.12	0.13	0.13	0.11	0.08	0.05	0.02	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.03	0.02	0.01	0.00
	4	Steel Dead Load	0.00	0.12	0.22	0.29	0.32	0.32	0.27	0.21	0.13	0.05	0.00	-0.01	0.01	0.03	0.05	0.07	0.08	0.08	0.06	0.04	0.00
		Fluid Dead Load	0.00	0.44	0.80	1.06	1.18	1.16	1.00	0.75	0.46	0.18	0.00	-0.03	0.01	0.10	0.19	0.27	0.31	0.30	0.24	0.13	0.00
		Superimposed Dead Load	0.00	0.05	0.09	0.12	0.13	0.13	0.11	0.08	0.05	0.02	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.03	0.03	0.01	0.00
	5	Steel Dead Load	0.00	0.12	0.21	0.28	0.31	0.31	0.27	0.20	0.12	0.05	0.00	-0.01	0.01	0.03	0.06	0.08	0.09	0.08	0.07	0.04	0.00
		Fluid Dead Load	0.00	0.42	0.77	1.02	1.13	1.11	0.96	0.72	0.43	0.17	0.00	-0.03	0.02	0.10	0.19	0.27	0.31	0.29	0.23	0.13	0.00
		Superimposed Dead Load	0.00	0.05	0.09	0.12	0.13	0.13	0.11	0.08	0.05	0.02	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.03	0.03	0.01	0.00
	6	Steel Dead Load	0.00	0.11	0.20	0.27	0.30	0.29	0.25	0.19	0.11	0.05	0.00	-0.01	0.01	0.03	0.06	0.08	0.09	0.08	0.06	0.04	0.00
		Fluid Dead Load	0.00	0.39	0.72	0.95	1.05	1.03	0.89	0.66	0.40	0.16	0.00	-0.03	0.02	0.09	0.18	0.24	0.28	0.27	0.21	0.12	0.00
		Superimposed Dead Load	0.00	0.05	0.09	0.12	0.13	0.13	0.11	0.08	0.05	0.02	0.00	0.00	0.00	0.01	0.02	0.03	0.04	0.03	0.03	0.02	0.00
Westbound	7	Steel Dead Load	0.00	0.12	0.22	0.30	0.33	0.32	0.28	0.21	0.13	0.05	0.00	-0.01	0.00	0.02	0.04	0.06	0.08	0.07	0.06	0.03	0.00
		Fluid Dead Load	0.00	0.44	0.82	1.08	1.20	1.18	1.03	0.78	0.48	0.20	0.00	-0.05	-0.02	0.05	0.14	0.21	0.25	0.25	0.20	0.11	0.00
		Superimposed Dead Load	0.00	0.05	0.08	0.11	0.12	0.12	0.11	0.08	0.05	0.02	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.03	0.02	0.01	0.00
	8	Steel Dead Load	0.00	0.12	0.22	0.30	0.33	0.32	0.28	0.21	0.13	0.05	0.00	-0.01	0.00	0.02	0.05	0.07	0.08	0.08	0.06	0.04	0.00
		Fluid Dead Load	0.00	0.46	0.85	1.12	1.25	1.23	1.07	0.81	0.49	0.20	0.00	-0.04	0.00	0.08	0.18	0.26	0.30	0.29	0.23	0.13	0.00
		Superimposed Dead Load	0.00	0.04	0.08	0.11	0.12	0.12	0.11	0.08	0.05	0.02	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.03	0.02	0.01	0.00
	9	Steel Dead Load	0.00	0.12	0.23	0.30	0.33	0.32	0.28	0.21	0.13	0.05	0.00	-0.01	0.00	0.03	0.05	0.07	0.08	0.08	0.06	0.04	0.00
		Fluid Dead Load	0.00	0.47	0.88	1.16	1.29	1.26	1.10	0.82	0.50	0.20	0.00	-0.04	0.01	0.10	0.20	0.28	0.32	0.31	0.25	0.14	0.00
		Superimposed Dead Load	0.00	0.04	0.08	0.11	0.12	0.12	0.10	0.08	0.05	0.02	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.03	0.02	0.01	0.00
	10	Steel Dead Load	0.00	0.12	0.23	0.30	0.33	0.33	0.28	0.21	0.13	0.05	0.00	-0.01	0.01	0.03	0.05	0.08	0.09	0.08	0.07	0.04	0.00
		Fluid Dead Load	0.00	0.48	0.88	1.17	1.30	1.27	1.10	0.83	0.50	0.20	0.00	-0.04	0.01	0.10	0.21	0.29	0.33	0.32	0.26	0.14	0.00
		Superimposed Dead Load	0.00	0.04	0.08	0.11	0.12	0.12	0.10	0.08	0.05	0.02	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.03	0.02	0.01	0.00
	11	Steel Dead Load	0.00	0.12	0.23	0.30	0.33	0.32	0.28	0.21	0.13	0.05	0.00	-0.01	0.01	0.03	0.06	0.08	0.09	0.08	0.07	0.04	0.00
		Fluid Dead Load	0.00	0.47	0.88	1.15	1.28	1.26	1.09	0.81	0.49	0.20	0.00	-0.03	0.02	0.11	0.21	0.30	0.34	0.33	0.26	0.14	0.00
		Superimposed Dead Load	0.00	0.04	0.08	0.11	0.12	0.12	0.10	0.08	0.05	0.02	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.03	0.02	0.01	0.00
	12	Steel Dead Load	0.00	0.12	0.22	0.29	0.33	0.32	0.28	0.21	0.13	0.05	0.00	-0.01	0.01	0.03	0.06	0.08	0.09	0.09	0.07	0.04	0.00
		Fluid Dead Load	0.00	0.46	0.84	1.11	1.23	1.21	1.04	0.78	0.47	0.19	0.00	-0.03	0.02	0.11	0.21	0.29	0.33	0.32	0.26	0.14	0.00
		Superimposed Dead Load	0.00	0.04	0.08	0.11	0.12	0.12	0.10	0.08	0.05	0.02	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.03	0.03	0.01	0.00
	13	Steel Dead Load	0.00	0.12	0.21	0.28	0.31	0.30	0.26	0.20	0.12	0.05	0.00	-0.01	0.01	0.03	0.06	0.08	0.09	0.09	0.07	0.04	0.00
		Fluid Dead Load	0.00	0.42	0.78	1.03	1.14	1.12	0.97	0.72	0.44	0.17	0.00	-0.03	0.02	0.10	0.20	0.27	0.31	0.29	0.23	0.13	0.00
		Superimposed Dead Load	0.00	0.05	0.08	0.11	0.12	0.12	0.10	0.08	0.05	0.02	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.03	0.03	0.01	0.00

STRUCTURAL STEEL NOTES

1. Camber ordinates, as shown, are computed to compensate for all dead load deflections and for the curvature of the finished grade profile.

2. No transverse butt weld splices will be allowed in the flange plates or web plates within 10 feet or 10 percent of the span length (whichever is greater) from the points of maximum negative moment or maximum positive moment. Butt weld splices in flanges shall be not less than 1 foot from transverse butt welds in the web plates and no transverse web or flange butt welds shall be located within 1 foot of other transverse welds (e.g. connection plates to web welds) on either flange or web. No transverse butt weld splices will be allowed in areas of stress reversal.

3. Sections of flange plates or web plates between transverse shop splices or between a transverse shop splice and a field splice shall be at least 20 feet in length unless otherwise shown on the Plans.

4. Bearing stiffeners shall be plumb after erection and dead loading of the structure.

5. Intermediate crossframe connection plates may be either plumb or normal to the top flange.

6. All crossframes except those at bearing locations are radial.

7. Structural steel shall be detailed and fabricated for Steel Dead Load Fit.

8. Filler plates may be steel conforming to the requirements of ASTM A709, Grade 36.

9. All bolts, nuts, and washers shall be hot dip galvanized in accordance with ASTM A153.

10. Bolted field splice connections shall be made using 7/8" diameter ASTM F3125, Grade A325 Type 1 high strength bolts. Bolt hole size shall be 15/16" diameter. Field splice bolt threads shall be excluded from the shear plane.

11. The splice was designed with a Class C slip coefficient.

12. Repairs to the Thermal Spray Coating that modify the surface roughness in the area of the faying surfaces shall not be performed without the approval of the Fabrication Engineer.

13. Ends of girder webs shall be vertical under full dead load.

14. Prior to structural steel erection, the Contractor shall submit an erection sequence to the Engineer for approval.

15. All web, flange, field splice plates, and crossframe members (including connection plates) in tension or stress reversal areas shall conform to Zone 2 Charpy V-notch impact test requirements of AASHTO M270.

16. At the Contractor's option, the Diaphragms and Cross Frames may be Hot-Dipped Galvanized in accordance with Standard Specifications Section 506, Shop Applied Protective Coating, as approved by the Resident. Payment will be considered incidental to Item 506.9104, Thermal Spray Coating (Shop Applied), no separate payment will be made.

17. Structural steel was designed with a vertical construction load of 50 lb/sf and lateral wind velocity during construction of 80mph.

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE PLANS
BRIDGE NO. 5808

	BY	DATE
PROJ. MANAGER	D. EATON	
DESIGN-DETAILED	PAG	JUNE 2023
CHECKED-REVIEWED	LSF/EGM	JUNE 2023
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE
P.E. NUMBER
DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

STRUCTURAL STEEL DETAILS
CURVED GIRDER

SHEET NUMBER
134
OF 190

Filename: ..._Framing_Details_curved3.dgn Division: BRIDGE Username: kwright Date:7/18/2023

SUPERSTRUCTURE NOTES

1. The theoretical blocking used for design of the structure is 3" at the centerline of bearing of the abutments and piers. Refer to Standard Detail 502(03) for blocking details.

2. Reinforcing steel shall have a minimum concrete cover of 2 inches unless otherwise noted.

3. Form a one inch V-groove on the fascias at the horizontal joint between the curb and slab.

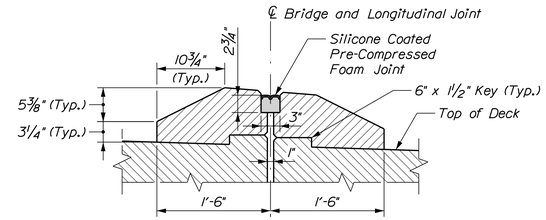
4. Anchor rods for the steel bridge rail posts shall be shortened by 1 inch to provide additional clearance between the top of the deck and bottom of the anchor rod.

5. The deck slab shall be cast to an initial thickness of 9½", which includes a nominal ½" overpour. After the deck has been cast, the bridge deck surface shall be diamond ground to achieve a grooved texture. Payment will be made under Item 202.1235. All dimensions, elevations, and clearances shown on these plans are referenced to the final top of deck surface after grinding.

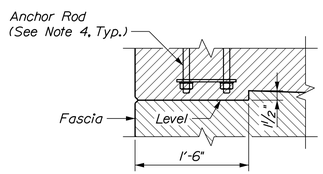
6. The superstructure slab concrete for each roadway barrel shall be separately placed. The initial placement for each roadway barrel shall proceed from Abutment No. 2 to Abutment No.1 in one continuous operation and the concrete shall be kept plastic one complete span behind the span being placed. Any proposed variation of the superstructure slab concrete placement sequence shall be approved by the Resident.

7. Precast Concrete Deck Panels are not allowed on this project.

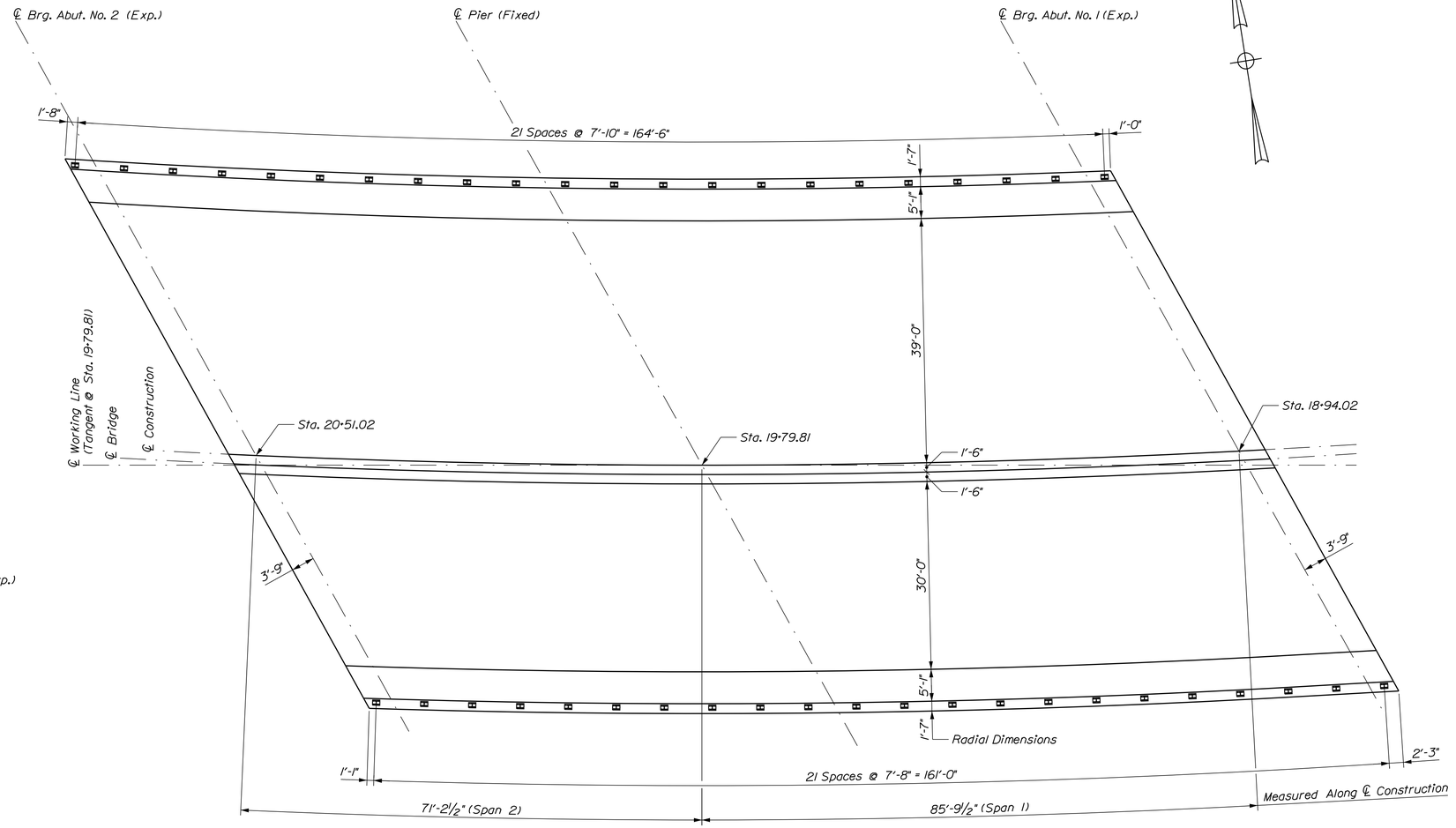
8. Finish deck to final grade or transition overpour to 0" at faces of curbs. If overpour is transitioned it shall be completely removed by grinding.



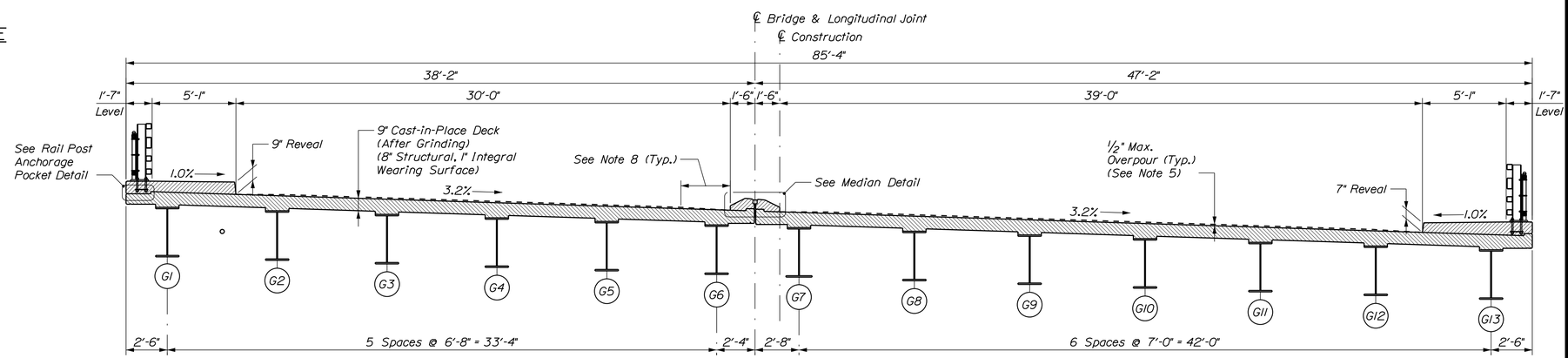
MEDIAN DETAIL



RAIL POST ANCHORAGE POCKET DETAIL



CURVED GIRDER BID ALTERNATE SUPERSTRUCTURE PLAN



TRANSVERSE SECTION
(All dimensions radial)

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 5808
WIN 21672.00
BRIDGE PLANS

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	PAG	BY	DATE
CHECKED-REVIEWED	LSF/EGM	PAG	JUNE 2023
DESIGN2-DETAILED2	LSF/EGM	TEK	JUNE 2023
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REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

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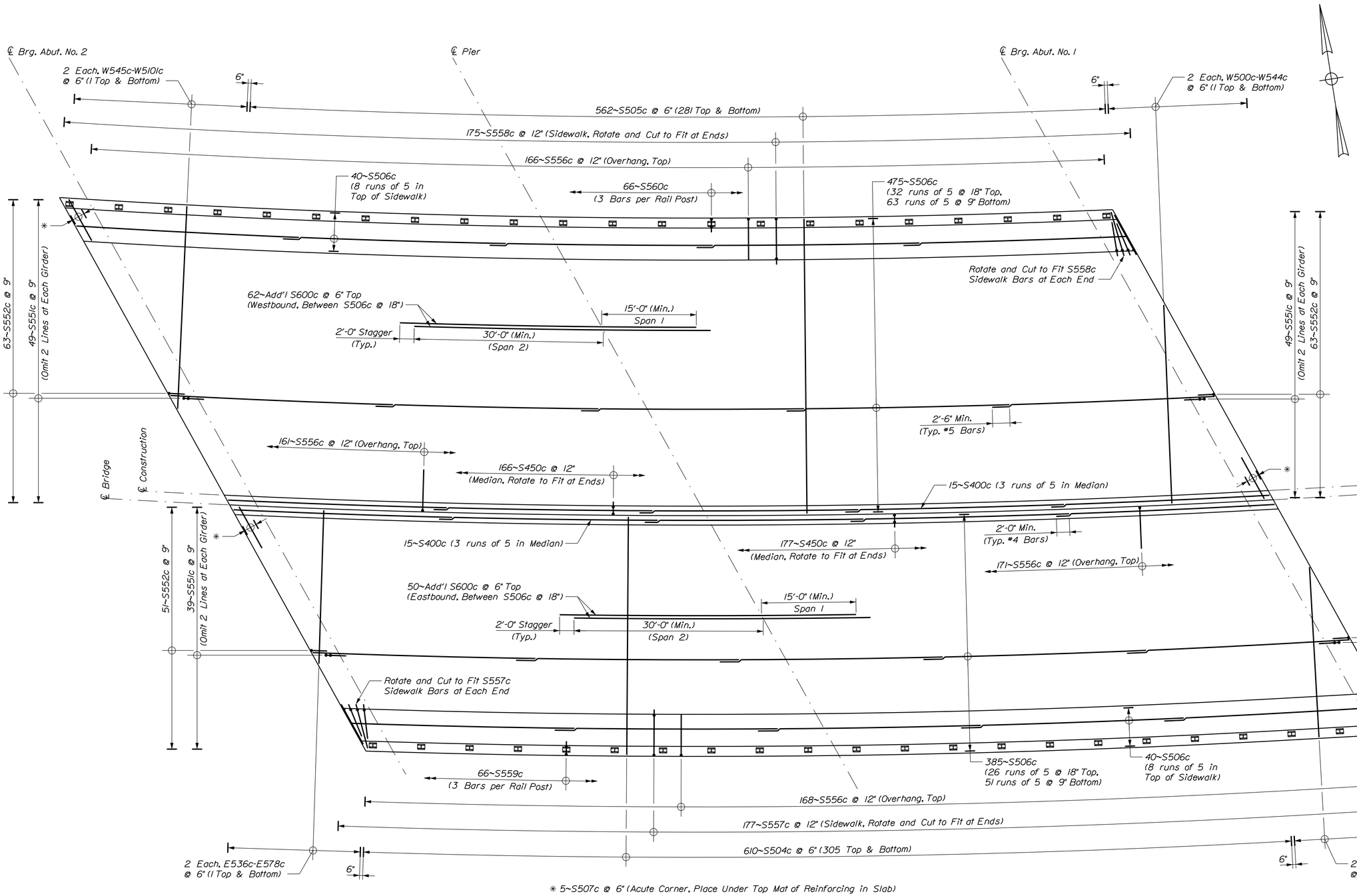
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WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

SUPERSTRUCTURE PLAN
CURVED GIRDER

SHEET NUMBER
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OF 190

Filename: ..._Superstructure_Plan_curved.dgn Division: BRIDGE Username: kwight Date:7/18/2023



CURVED GIRDER BID ALTERNATE SUPERSTRUCTURE REINFORCING PLAN

Filename: ..._Super_Plan_reinf_curved.dgn Division: BRIDGE Username: kwight Date:7/18/2023

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS

WIN 21672.00

BRIDGE NO. 5808

	BY	DATE
D. EATON	PAG	JUNE 2023
PROJ. MANAGER	TEK	JUNE 2023
DESIGN-DETAILED	PAG	
CHECKED-REVIEWED	LSF/EGM	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
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REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

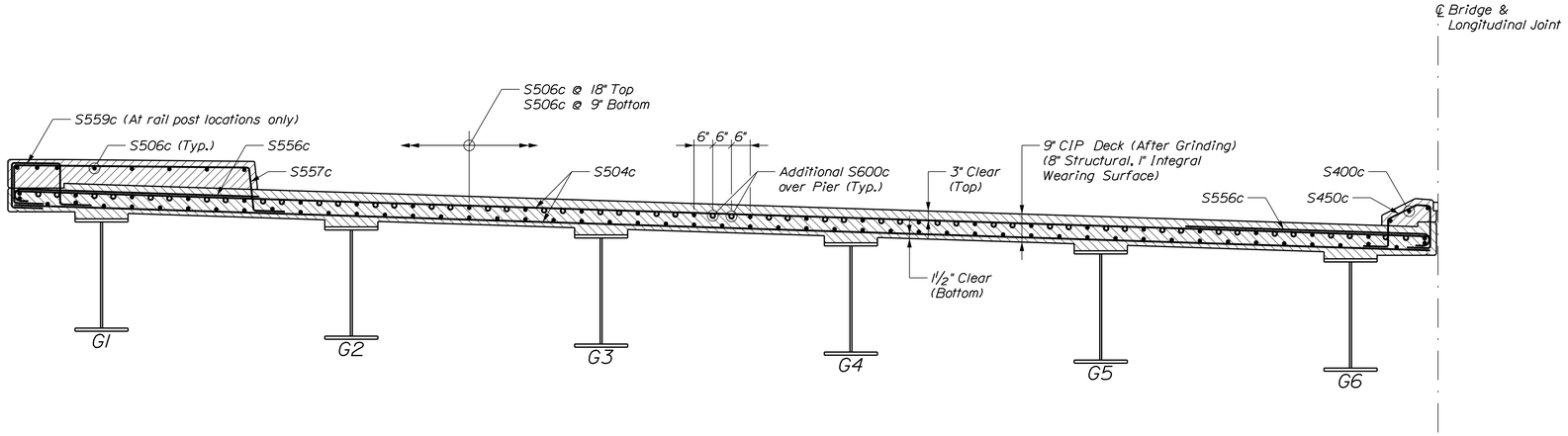
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WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

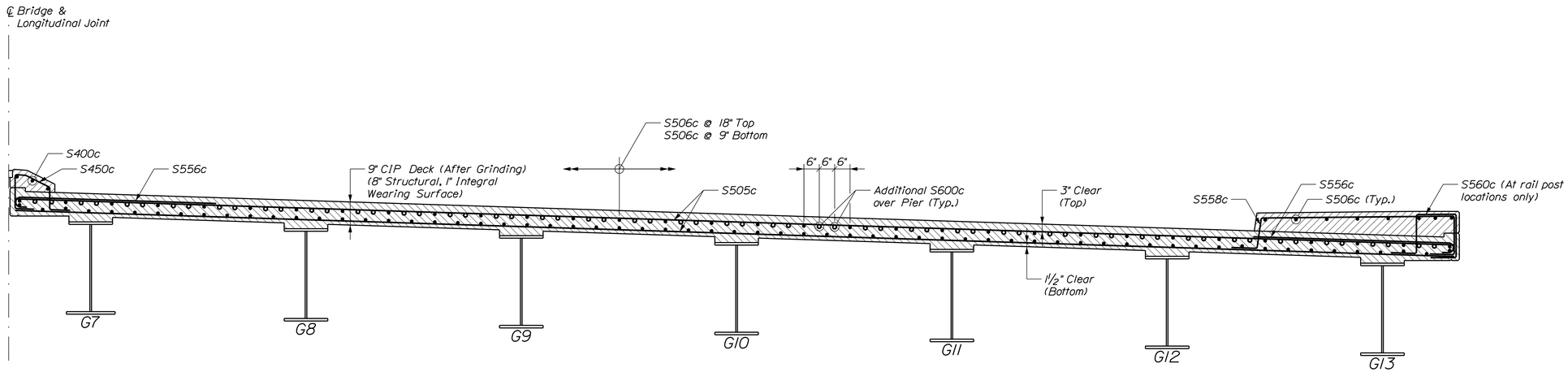
SUPER. REINFORCING PLAN
CURVED GIRDER

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SHEET NUMBER
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OF 190



EASTBOUND - REINFORCING SECTION



WESTBOUND - REINFORCING SECTION

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00

BRIDGE NO. 5808

BRIDGE PLANS

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	PAG	BY	DATE
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DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
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REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

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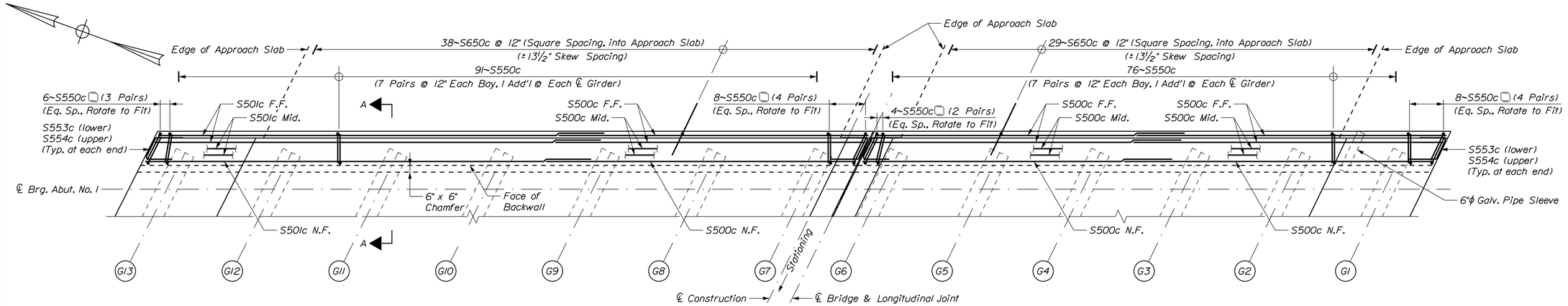
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WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

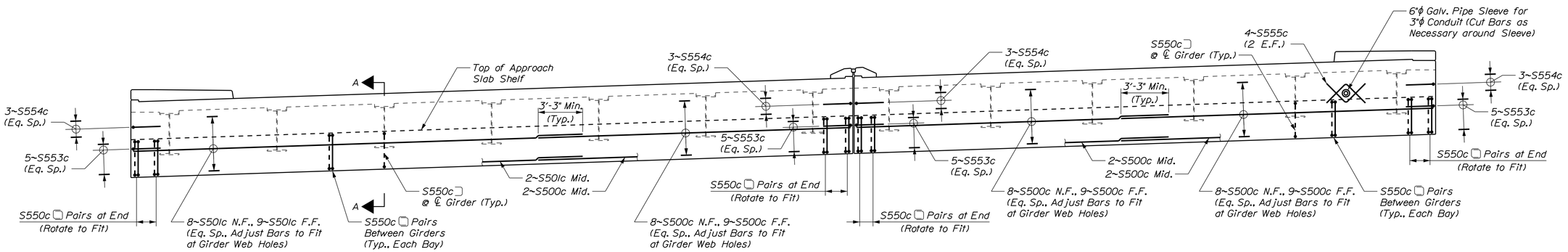
SUPER. REINFORCING SECTION
CURVED GIRDER

SHEET NUMBER
137
OF 190

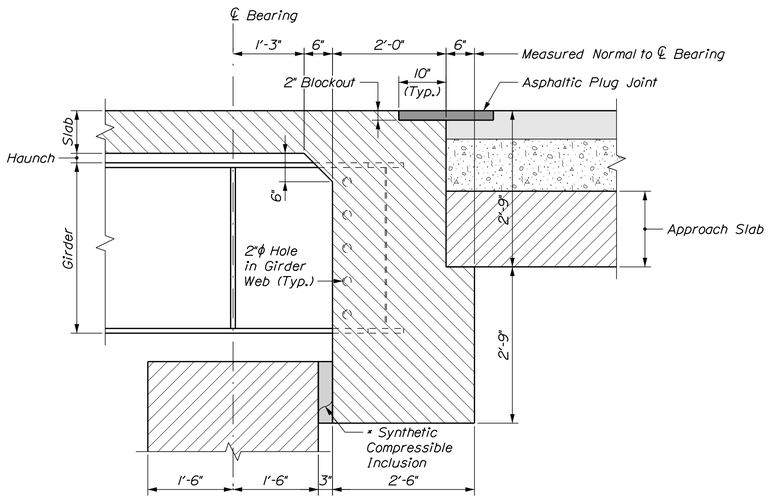
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ABUTMENT NO. 1 SEMI-INTEGRAL ABUTMENT BACKWALL PLAN

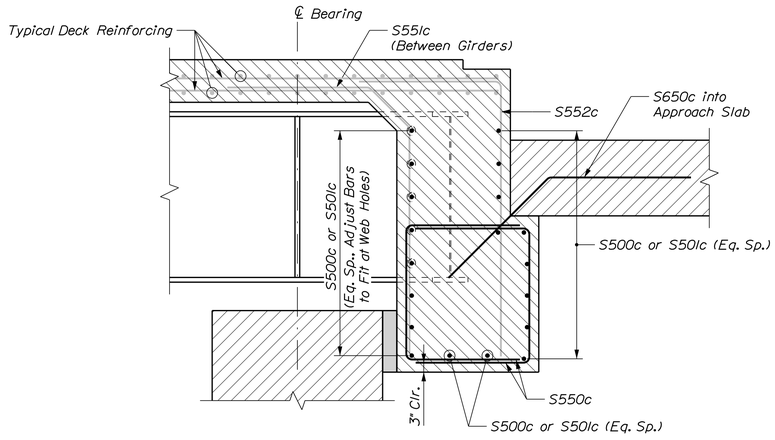


ABUTMENT NO. 1 SEMI-INTEGRAL ABUTMENT BACKWALL ELEVATION



SECTION A-A

* Refer to Special Provision Section 620



SECTION A-A - REINFORCING DETAIL

(Abutment No. 1 shown, Abutment No. 2 similar except bar marks)

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS

WIN 21672.00

BRIDGE NO. 5808

	BY	DATE
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DESIGN2-DETAILED2		
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FIELD CHANGES		

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WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

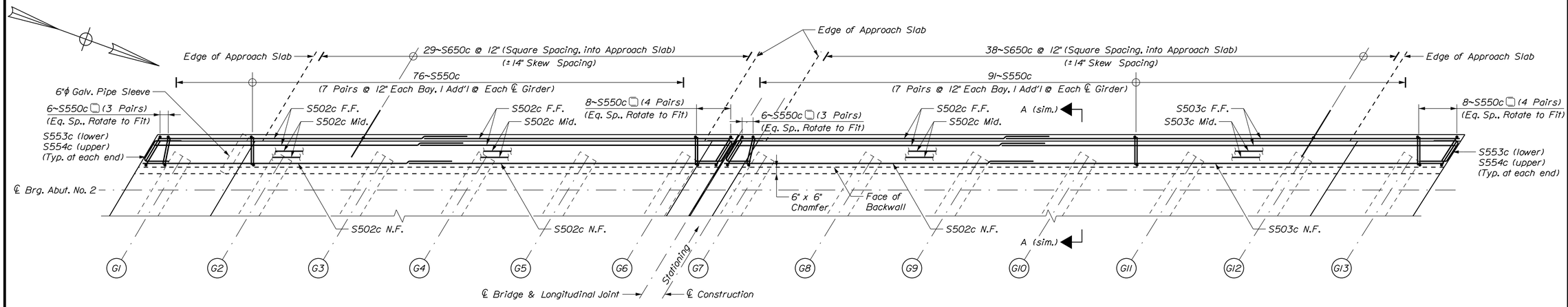
SUPERSTRUCTURE DETAILS
ABUT. NO. 1 END - CURVED

SHEET NUMBER

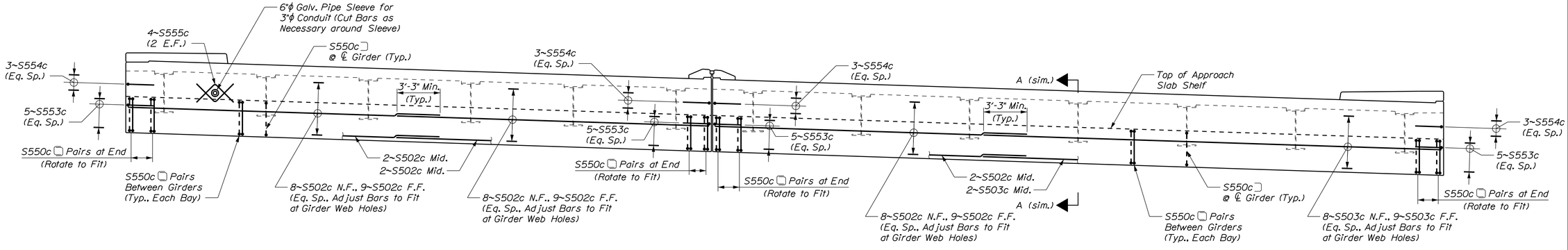
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Filename: ..._End_Diaphragm_curved1.dgn Division: BRIDGE Username: kwright Date:7/18/2023



ABUTMENT NO. 2 SEMI-INTEGRAL ABUTMENT BACKWALL PLAN



ABUTMENT NO. 2 SEMI-INTEGRAL ABUTMENT BACKWALL ELEVATION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS

WIN 21672.00

BRIDGE NO. 5808

	BY	DATE
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REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

SUPERSTRUCTURE DETAILS
ABUT. NO. 2 END - CURVED

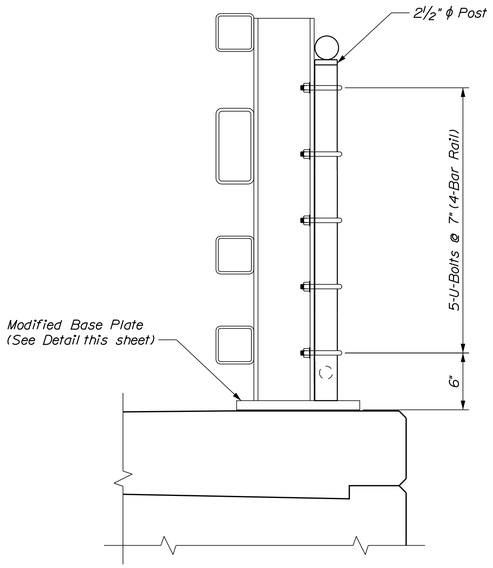
SHEET NUMBER

139

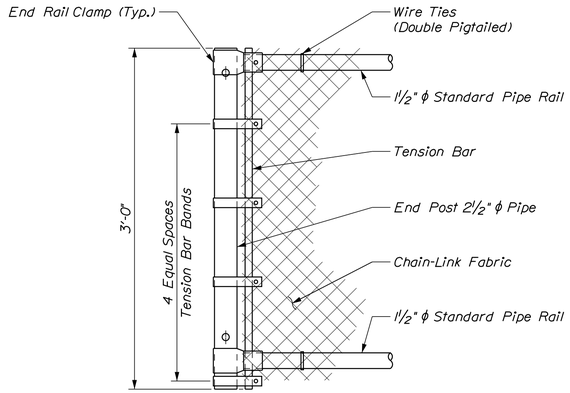
OF 190

Stantec

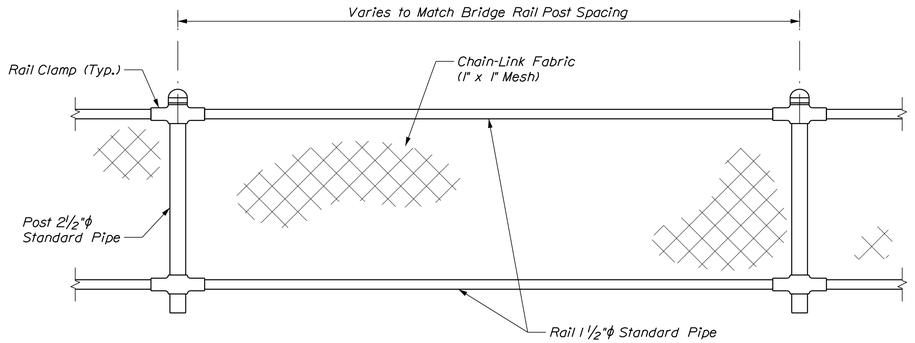
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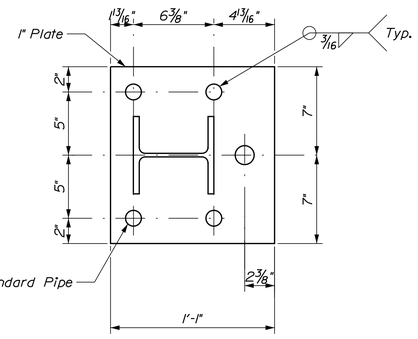
SNOW FENCE CONNECTION DETAIL



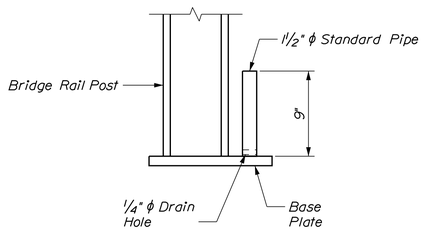
END POST DETAIL



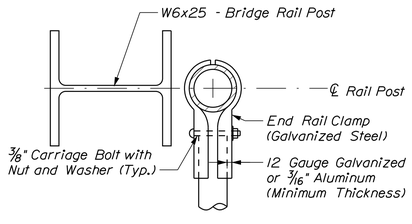
ELEVATION - SNOW FENCE



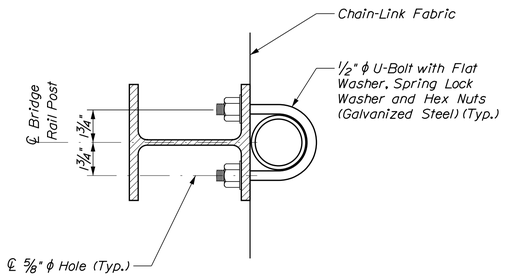
MODIFIED BASE PLATE DETAIL



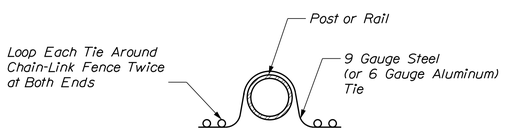
MODIFIED BASE PLATE ELEVATION



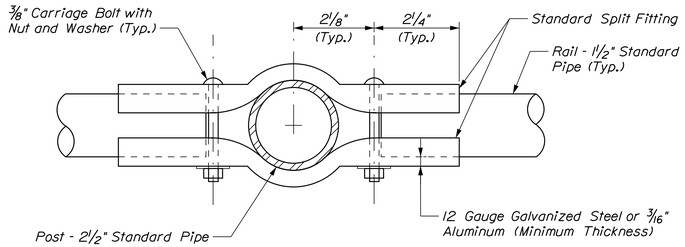
END POST DETAIL
(U-Bolt Not Shown)



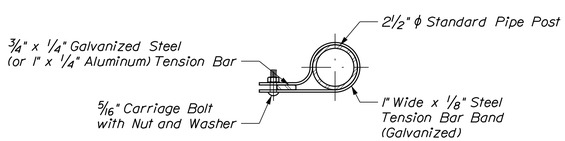
U-BOLT CONNECTION DETAIL
(At Interior Post)



DOUBLE PIGTAILED TIE



RAIL CLAMP DETAIL



TENSION BAND DETAIL

SNOW FENCE NOTES

1. Chain-link fence shall conform to Section 710.03 and Special Provision Section 607. The size of wire mesh (fabric) shall be 1".

2. Post and rail pipe shall be hot-dip galvanized. All pipe shall be schedule 40, standard weight. Normal pipe sizes are shown.

3. Tension bars, bar bands, boulevard and end rail clamps shall be steel or aluminum alloy conforming to AASHTO M181 (ASTM F626). Steel components shall be hot-dip galvanized in accordance with AASHTO M111 (ASTM A123) or AASHTO M232 (ASTM A153) as applicable.

4. All bolts and nuts shall be steel conforming to ASTM A307 and ASTM A563 Grade A respectively. Washers shall be hardened steel commercial type A plan and shall meet the dimensional requirements of ANSI B18.22. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M111 (ASTM A123) or AASHTO M232 (ASTM A153) as applicable.

5. Rail may be field cut (sawn) to fit post spacing.

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WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

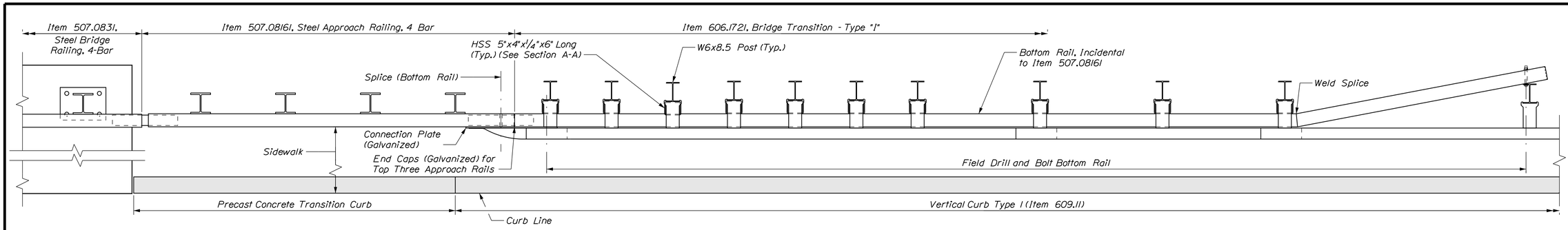
PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	MaineDOT	BY	DATE
CHECKED-REVIEWED	MaineDOT	JUNE 2023	
DESIGN2-DETAILED2	MaineDOT	JUNE 2023	SIGNATURE
DESIGN3-DETAILED3			
REVISIONS 1			P.E. NUMBER
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			DATE
FIELD CHANGES			

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

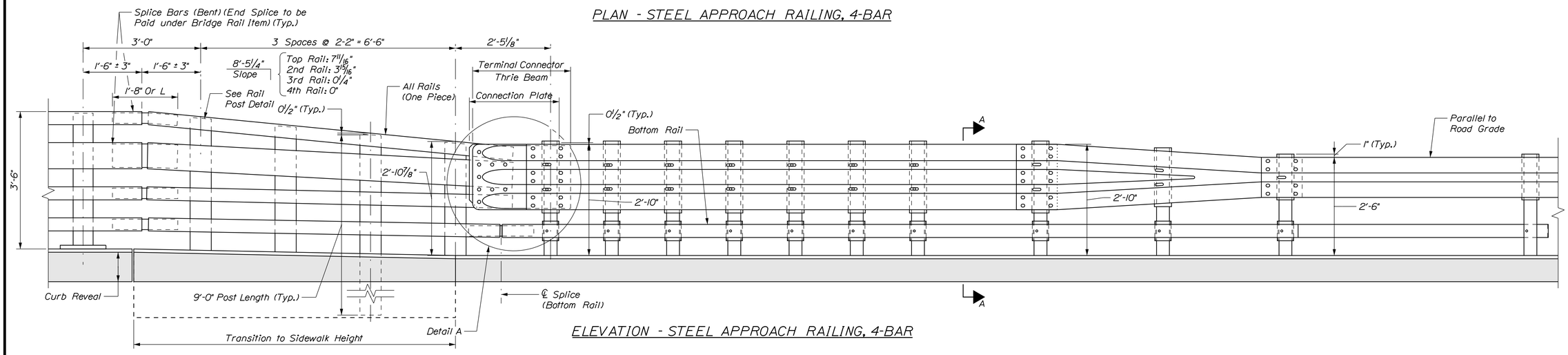
SNOW FENCE DETAILS

SHEET NUMBER
140
OF 190

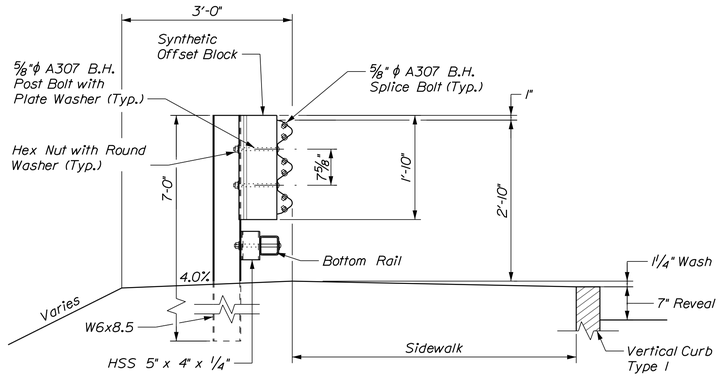
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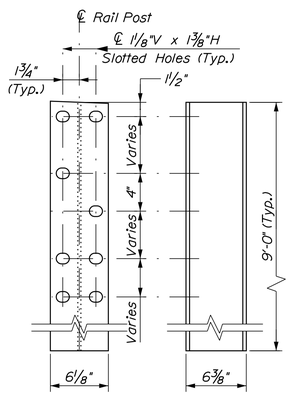
PLAN - STEEL APPROACH RAILING, 4-BAR



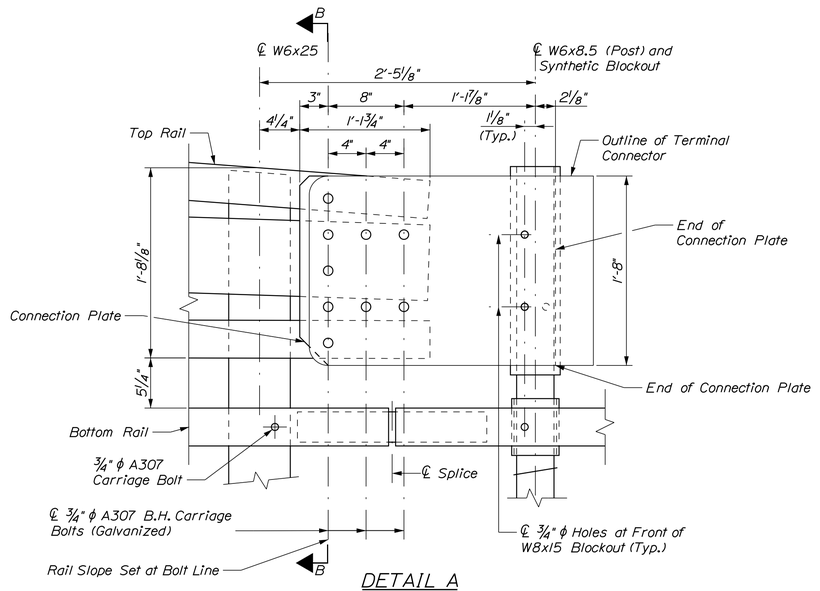
ELEVATION - STEEL APPROACH RAILING, 4-BAR



SECTION A-A (POST RAIL ASSEMBLY)



RAIL POST (W6x25)



DETAIL A

Overlapping of Double Nested Thrie-Beam Not Shown For Clarity

NOTES:

1. Refer to Steel Bridge Railing and Steel Approach Railing, 3-Bar Standard Details for additional details, notes and materials specifications. For Section B-B, refer to Standard Detail 507(24).

2. Rail bar welds shall have a minimum penetration of 80% as demonstrated by a test weld performed by the fabricator.

3. The precast concrete vertical or transition curb shall meet the provisions of Section 609 - Curbing of the Standard Specifications. The bridge end of the curb shall be saw cut in the field to fit flush against the backwall, as directed by the bridge skew angle and the profile grade. Where curbing is specified on the adjacent highway, the transition shall be modified accordingly.

4. After installation of the guard rail is complete, upset the threads on the anchor bolts in three (3) places around each bolt, at the junction of the nut and the exposed thread, with a center punch or similar tool.

5. Splice Bar (bent): Weld splice bar to fit bend. Use complete joint penetration butt weld (B-U2). End splice bars to be paid under the Bridge Railing Item.

6. Standard Bridge Transition may require longer posts to account for higher rail height. No additional payment will be made for this modification.

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DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS

WIN 21672.00

BRIDGE NO. 5808

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	MaineDOT	JUNE 2023	SIGNATURE
CHECKED-REVIEWED	MaineDOT	JUNE 2023	
DESIGN2-DETAILED2			P.E. NUMBER
DESIGN3-DETAILED3			
REVISIONS 1			DATE
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

WESTERN AVENUE BRIDGE
INTERSTATE 95 KENNEBEC COUNTY
AUGUSTA

STEEL APPROACH RAILING DETAILS

SHEET NUMBER

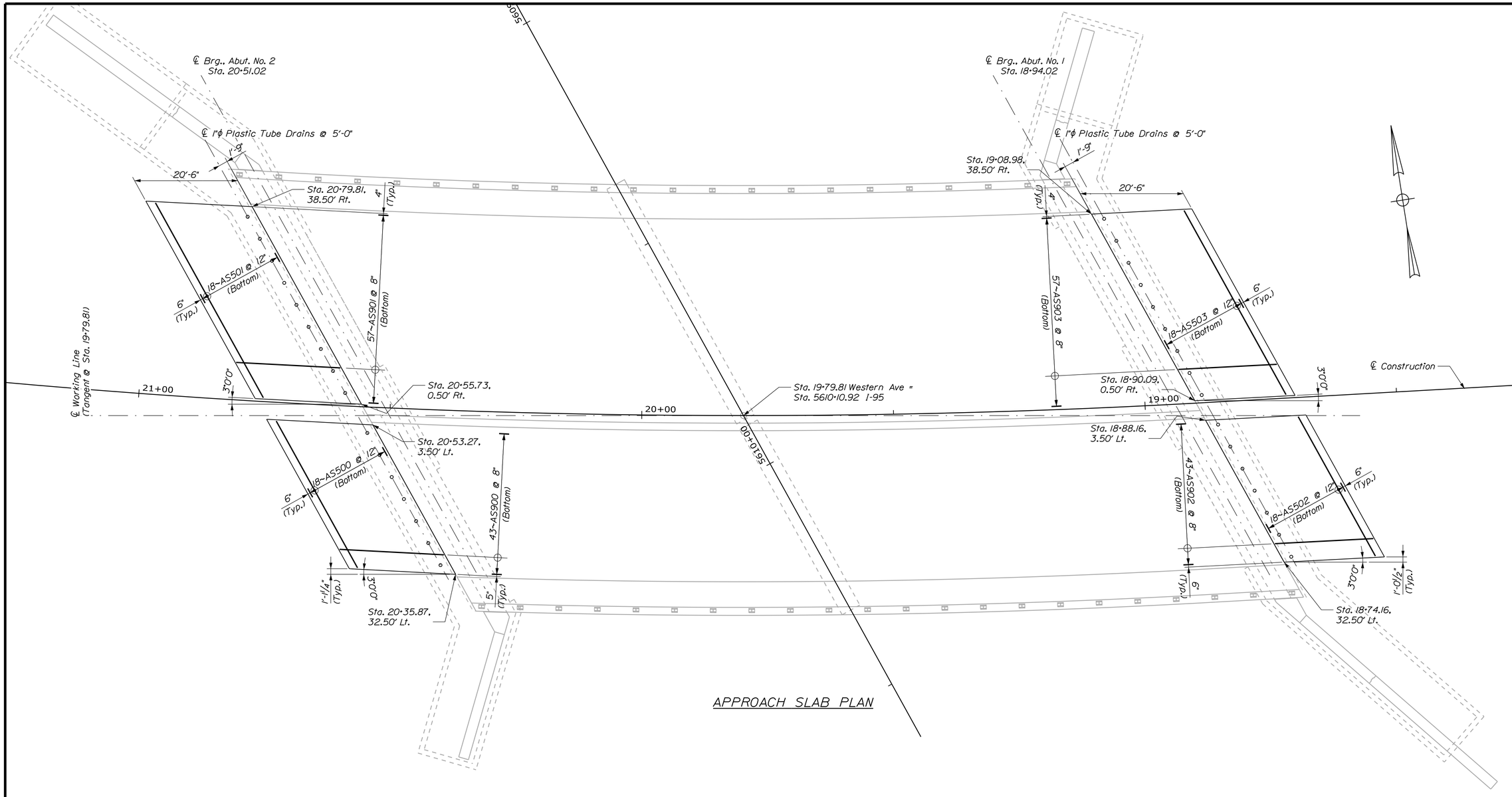
141

OF 190

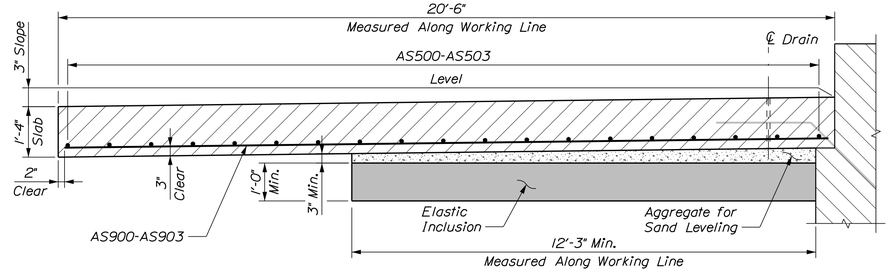
Stantec

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Filename: ...\BRIDGE\MSTA_Approach_Slab.dgn Division: BRIDGE Username: kwight Date:7/18/2023



APPROACH SLAB PLAN



APPROACH SLAB SECTION

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

	BY	DATE
D. EATON		
PROJ. MANAGER	KLW\PLP	JUNE 2023
DESIGN-DETAILED	KLW\PLP	JUNE 2023
CHECKED-REVIEWED	LEM	
DESIGN2-DETAILED2	LEM	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

APPROACH SLAB PLAN

SHEET NUMBER
142
OF 190

STRAIGHT BARS

MARK	QTY.	LENGTH	LOCATION
		ABUTMENT NO. 1	
A500	86	10'-6"	Footing
A501	48	9'-6"	Footing
A502	30	32'-6"	Footing
A503	36	34'-10"	Footing
A504	22	44'-10"	Footing
A505	30	13'-10"	Footing
A506	30	18'-7"	Footing
A507c	172	4'-4"	Footing - Vertical
A510c	38	29'-7"	Horizontal Stem
A511c	40	23'-9"	Horizontal Stem
A512c	40	21'-11"	Horizontal Stem
A513c	42	20'-2"	Horizontal Stem
A514c	4	29'-7"	Horizontal Stem
A515c	4	23'-9"	Horizontal Stem
A516c	4	21'-11"	Horizontal Stem
A517c	4	20'-2"	Horizontal Stem
A518c	66	14'-10"	Vertical Stem N.F.
A519c	67	16'-10"	Vertical Stem N.F.
A520c	1	10'-3"	Vert. Stem NF N.E. Wingwall
A521c	1	10'-9"	Vert. Stem NF N.E. Wingwall
A522c	1	11'-3"	Vert. Stem NF N.E. Wingwall
A523c	1	11'-9"	Vert. Stem NF N.E. Wingwall
A524c	1	12'-3"	Vert. Stem NF N.E. Wingwall
A525c	1	12'-8"	Vert. Stem NF N.E. Wingwall
A526c	1	13'-2"	Vert. Stem NF N.E. Wingwall
A527c	1	13'-8"	Vert. Stem NF N.E. Wingwall
A528c	1	14'-2"	Vert. Stem NF N.E. Wingwall
A529c	1	14'-8"	Vert. Stem NF N.E. Wingwall
A530c	1	15'-2"	Vert. Stem NF N.E. Wingwall
A531c	1	15'-8"	Vert. Stem NF N.E. Wingwall
A532c	1	16'-2"	Vert. Stem NF N.E. Wingwall
A533c	1	16'-8"	Vert. Stem NF N.E. Wingwall
A534c	1	17'-2"	Vert. Stem NF N.E. Wingwall
A535c	1	17'-8"	Vert. Stem NF N.E. Wingwall
A536c	1	18'-2"	Vert. Stem NF N.E. Wingwall
A537c	1	18'-8"	Vert. Stem NF N.E. Wingwall
A538c	1	19'-2"	Vert. Stem NF N.E. Wingwall
A539c	6	6'-7"	Vert. Stem FF N.E. Wingwall
A540c	8	10'-8"	Vert. Stem FF N.E. Wingwall
A542c	2	6'-11"	Vert. Stem N.E. Wingwall
A543c	2	7'-5"	Vert. Stem N.E. Wingwall
A544c	2	7'-11"	Vert. Stem N.E. Wingwall
A545c	2	8'-5"	Vert. Stem N.E. Wingwall
A546c	2	8'-11"	Vert. Stem N.E. Wingwall
A547c	2	9'-5"	Vert. Stem N.E. Wingwall
A548c	2	9'-11"	Vert. Stem N.E. Wingwall
A549c	2	10'-5"	Vert. Stem N.E. Wingwall
A550c	13	10'-11"	Vert. Stem N.E. Wingwall
A551c	22	18'-8"	Horiz. Stem N.E. Wingwall
A552c	2	16'-11"	Horiz. Stem N.E. Wingwall
A553c	2	14'-11"	Horiz. Stem N.E. Wingwall
A554c	2	12'-11"	Horiz. Stem N.E. Wingwall
A555c	2	10'-11"	Horiz. Stem N.E. Wingwall
A556c	2	8'-11"	Horiz. Stem N.E. Wingwall
A557c	2	6'-11"	Horiz. Stem N.E. Wingwall
A558c	2	4'-10"	Horiz. Stem N.E. Wingwall
A559c	2	2'-10"	Horiz. Stem N.E. Wingwall
A560c	40	11'-0"	Horiz. Stem N.E. Wingwall
A561c	2	10'-2"	Horiz. Stem N.E. Wingwall
A562c	2	8'-2"	Horiz. Stem N.E. Wingwall
A563c	2	6'-2"	Horiz. Stem N.E. Wingwall
A564c	2	4'-2"	Horiz. Stem N.E. Wingwall
A565c	4	20'-10"	Vert. Stem N.E. Wingwall
A566c	4	9'-2"	Vert. Stem N.E. Wingwall
A567c	4	2'-11"	Vert. Stem N.E. Wingwall

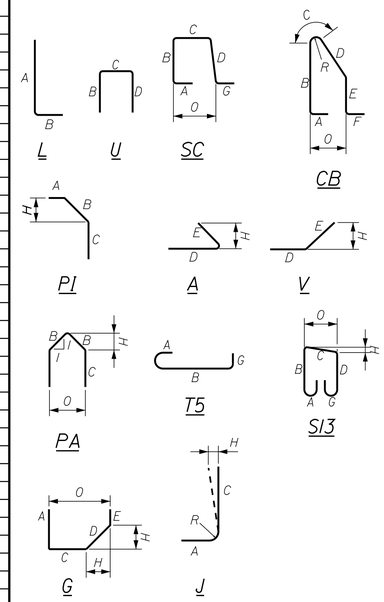
MARK	QTY.	LENGTH	LOCATION
		ABUTMENT NO. 1	
A570c	2	5'-7"	Vert. Stem S.E. Wingwall
A571c	2	5'-10"	Vert. Stem S.E. Wingwall
A572c	2	6'-4"	Vert. Stem S.E. Wingwall
A573c	2	6'-7"	Vert. Stem S.E. Wingwall
A574c	2	6'-11"	Vert. Stem S.E. Wingwall
A575c	2	7'-4"	Vert. Stem S.E. Wingwall
A576c	2	7'-8"	Vert. Stem S.E. Wingwall
A577c	2	8'-0"	Vert. Stem S.E. Wingwall
A578c	2	8'-5"	Vert. Stem S.E. Wingwall
A579c	2	8'-9"	Vert. Stem S.E. Wingwall
A580c	2	9'-2"	Vert. Stem S.E. Wingwall
A581c	2	9'-6"	Vert. Stem S.E. Wingwall
A582c	2	9'-11"	Vert. Stem S.E. Wingwall
A583c	2	10'-3"	Vert. Stem S.E. Wingwall
A584c	2	10'-7"	Vert. Stem S.E. Wingwall
A585c	2	10'-11"	Vert. Stem S.E. Wingwall
A586c	2	11'-4"	Vert. Stem S.E. Wingwall
A587c	2	11'-8"	Vert. Stem S.E. Wingwall
A588c	14	11'-10"	Vert. Stem S.E. Wingwall
A589c	1	20'-0"	Vert. Stem S.E. Wingwall
A590c	1	19'-8"	Vert. Stem S.E. Wingwall
A591c	1	19'-2"	Vert. Stem S.E. Wingwall
A592c	1	18'-11"	Vert. Stem S.E. Wingwall
A593c	1	18'-7"	Vert. Stem S.E. Wingwall
A594c	1	18'-1"	Vert. Stem S.E. Wingwall
A595c	1	17'-10"	Vert. Stem S.E. Wingwall
A596c	1	17'-6"	Vert. Stem S.E. Wingwall
A597c	1	17'-0"	Vert. Stem S.E. Wingwall
A598c	1	16'-8"	Vert. Stem S.E. Wingwall
A599c	1	16'-5"	Vert. Stem S.E. Wingwall
A5100c	1	16'-1"	Vert. Stem S.E. Wingwall
A5101c	1	15'-7"	Vert. Stem S.E. Wingwall
A5102c	1	15'-3"	Vert. Stem S.E. Wingwall
A5103c	1	15'-0"	Vert. Stem S.E. Wingwall
A5104c	1	14'-6"	Vert. Stem S.E. Wingwall
A5105c	1	14'-2"	Vert. Stem S.E. Wingwall
A5106c	1	13'-11"	Vert. Stem S.E. Wingwall
A5107c	1	13'-5"	Vert. Stem S.E. Wingwall
A5108c	1	13'-1"	Vert. Stem S.E. Wingwall
A5109c	1	12'-9"	Vert. Stem S.E. Wingwall
A5110c	2	12'-8"	Vert. Stem S.E. Wingwall
A5111c	2	12'-2"	Vert. Stem S.E. Wingwall
A5112c	2	11'-10"	Vert. Stem S.E. Wingwall
A5113c	2	11'-6"	Vert. Stem S.E. Wingwall
A5114c	2	11'-3"	Vert. Stem S.E. Wingwall
A5115c	2	10'-9"	Vert. Stem S.E. Wingwall
A5116c	2	10'-5"	Vert. Stem S.E. Wingwall
A5117c	2	10'-2"	Vert. Stem S.E. Wingwall
A5118c	2	9'-8"	Vert. Stem S.E. Wingwall
A5119c	2	9'-4"	Vert. Stem S.E. Wingwall
A5120c	2	9'-0"	Vert. Stem S.E. Wingwall
A5121c	2	8'-7"	Vert. Stem S.E. Wingwall
A5122c	42	23'-2"	Horiz. Stem S.E. Wingwall
A5123c	2	20'-4"	Horiz. Stem S.E. Wingwall
A5124c	2	17'-7"	Horiz. Stem S.E. Wingwall
A5125c	2	14'-11"	Horiz. Stem S.E. Wingwall
A5126c	2	12'-5"	Horiz. Stem S.E. Wingwall
A5127c	2	9'-6"	Horiz. Stem S.E. Wingwall
A5128c	2	6'-10"	Horiz. Stem S.E. Wingwall
A5129c	18	31'-8"	Horiz. Stem S.E. Wingwall
A5130c	2	30'-7"	Horiz. Stem S.E. Wingwall
A5131c	2	27'-10"	Horiz. Stem S.E. Wingwall
A5132c	2	25'-0"	Horiz. Stem S.E. Wingwall
A5133c	2	23'-3"	Horiz. Stem S.E. Wingwall
A5134c	2	19'-5"	Horiz. Stem S.E. Wingwall
A5135c	2	16'-8"	Horiz. Stem S.E. Wingwall
A5136c	2	13'-10"	Horiz. Stem S.E. Wingwall
A5137c	2	11'-1"	Horiz. Stem S.E. Wingwall
A5138c	2	8'-3"	Horiz. Stem S.E. Wingwall
A5139c	2	5'-6"	Horiz. Stem S.E. Wingwall
A5140c	2	2'-8"	Horiz. Stem S.E. Wingwall
A5141c	3	33'-8"	Stem S.E. Wingwall
A5142c	3	19'-2"	Stem S.E. Wingwall
A5143c	3	5'-1"	Stem S.E. Wingwall

BENT BARS

MARK	QTY.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION
						ABUTMENT NO. 1								
A5150c	27	13'-2"	U		5'-4"	2'-6"	5'-4"							Abutment Stem Cap
A5151c	24	14'-8"	U		6'-1"	2'-6"	6'-1"							Abutment Stem Cap
A5152c	23	12'-4"	U		4'-11"	2'-6"	4'-11"							Abutment Stem Cap
A5153c	19	13'-8"	U		5'-7"	2'-6"	5'-7"							Abutment Stem Cap
A5154c	29	3'-8"	U		10"	2'-0"	10"							NE Wingwall Cap
A5155c	55	3'-2"	U		10"	1'-6"	10"							SE Wingwall Cap
A5156c	24	7'-9"	A				4'-3"	3'-6"			3'-1½"			N.E Corner F.F
A5157c	19	5'-0"	V				2'-6"	2'-6"			1'-9"			N.E Corner N.F.
A5158c	5	5'-4"	J	2'-8"		2'-8"					10"		8"	N.E Corner N.F.
A5159c	27	8'-10"	V				6'-0"	2'-10"			2'-6½"			S.E Corner F.F
A5160c	22	5'-0"	V				2'-6"	2'-6"			10"			S.E Corner N.F.
A5161c	5	6'-3"	J	3'-0"		2'-8"					1'-11"		3"	S.E Corner N.F.
A750c	236	6'-10"	L	5'-8"	1'-2"									Footing
A850c	62	7'-5"	L	6'-1"	1'-4"									Footing

MARK	QTY.	LENGTH	LOCATION
A5163c	1	13'-1"	Stem S.E. Wingwall
A5164c	3	19'-2"	Stem S.E. Wingwall
A5165c	3	5'-1"	Stem S.E. Wingwall

TYPE - BENDING DIAGRAMS



All dimensions are out-to-out of bar.

Bending details and hooks shall conform to the recommendations of the current revision of ACI Standard 315 and ACI Standard 318.

Plain Reinforcing Steel:	ASTM A615, Grade 60
Stainless Steel Reinforcing:	ASTM A955, Grade 75
Glass Fiber Reinforced Polymer:	ASTM D7957
Low-Carbon Chromium Steel:	ASTM A1035, Type CS, Grade 100

GENERAL NOTES

1. The first digit(s) following the letter(s) of the mark indicate the size ofthe bar:

   Mark "A502" = bar size #5
   Mark "S650" = bar size #6
   Mark "P805" = bar size #8
   Mark "P1404" = bar size #14

2. The lower case letter following the bar number indicated the material of the bar.

   "A500b", b = (Black) Plain Steel
   "A550s", s = Stainless Steel
   "S500g", g = Glass Fiber Reinforced Polymer
   "P510c", c = Low-carbon Chromium Steel

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS

WIN 21672.00

BRIDGE NO. 5808

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	SW	KLW	JUNE 2023
CHECKED-REVIEWED	TEK	EGM	JUNE 2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

REINFORCING SCHEDULE (1 OF 4)

SHEET NUMBER

143

OF 190

Filename: ...\MSTA_Rebor_Schedule1.dgn Division: BRIDGE Username: kwight Date:7/18/2023

Filename: ...\MSTA_Rebor _Schedule2.dgn Username: kwight Division: BRIDGE Date:7/18/2023

STRAIGHT BARS

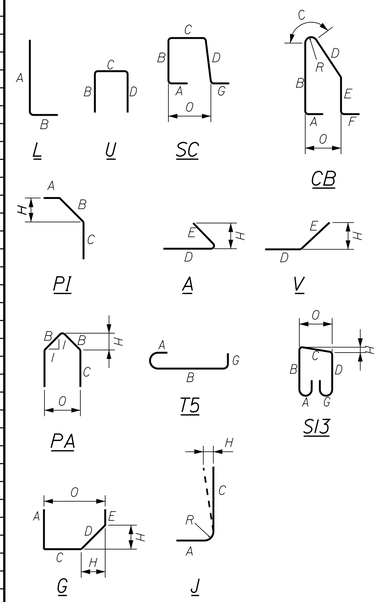
MARK	QTY.	LENGTH	LOCATION
		ABUTMENT NO. 1	
A700	138	14'-0"	Footing
A701	173	10'-6"	Footing
A702	89	9'-6"	Footing
A703c	138	9'-0"	Vert. Stem FF & SE Wing
A704c	51	14'-10"	Vert. Stem FF
A705c	67	16'-10"	Vert. Stem FF
A707c	1	20'-0"	Vert. Stem S.E. Wingwall
A708c	1	19'-8"	Vert. Stem S.E. Wingwall
A709c	1	19'-2"	Vert. Stem S.E. Wingwall
A710c	1	18'-11"	Vert. Stem S.E. Wingwall
A711c	1	18'-7"	Vert. Stem S.E. Wingwall
A712c	1	18'-1"	Vert. Stem S.E. Wingwall
A713c	1	17'-10"	Vert. Stem S.E. Wingwall
A714c	1	17'-6"	Vert. Stem S.E. Wingwall
A715c	1	17'-0"	Vert. Stem S.E. Wingwall
A716c	1	16'-8"	Vert. Stem S.E. Wingwall
A717c	1	16'-5"	Vert. Stem S.E. Wingwall
A718c	1	16'-1"	Vert. Stem S.E. Wingwall
A719c	1	15'-7"	Vert. Stem S.E. Wingwall
A720c	1	15'-3"	Vert. Stem S.E. Wingwall
A721c	1	15'-0"	Vert. Stem S.E. Wingwall
A722c	1	14'-6"	Vert. Stem S.E. Wingwall
A723c	1	14'-2"	Vert. Stem S.E. Wingwall
A724c	1	13'-11"	Vert. Stem S.E. Wingwall
A725c	1	13'-5"	Vert. Stem S.E. Wingwall
A726c	1	13'-1"	Vert. Stem S.E. Wingwall
A727c	1	12'-9"	Vert. Stem S.E. Wingwall
A800c	30	8'-0"	Vert. Stem FF N.E. Wingwall
A801c	15	12'-0"	Vert. Stem FF N.E. Wingwall
A802c	12	14'-10"	Vert. Stem FF N.E. Wingwall
A803c	2	10'-3"	Vert. Stem FF N.E. Wingwall
A804c	2	10'-9"	Vert. Stem FF N.E. Wingwall
A805c	2	11'-3"	Vert. Stem FF N.E. Wingwall
A806c	2	11'-9"	Vert. Stem FF N.E. Wingwall
		ABUTMENT NO. 2	
B500	37	9'-6"	Footing
B501	91	10'-6"	Footing
B502	12	14'-0"	Footing
B503	20	30'-9"	Footing
B504	66	37'-8"	Footing
B505	30	19'-0"	Footing
B506	30	30'-11"	Footing
B507c	179	4'-4"	Footing
B510c	36	23'-10"	Horizontal Stem
B511c	38	31'-8"	Horizontal Stem
B512c	38	21'-8"	Horizontal Stem
B513c	40	24'-3"	Horizontal Stem
B514c	4	23'-10"	Horizontal Stem
B515c	4	31'-8"	Horizontal Stem
B516c	4	21'-8"	Horizontal Stem
B517c	4	24'-3"	Horizontal Stem
B518c	76	13'-2"	Vertical Stem N.F.
B519c	71	14'-8"	Vertical Stem N.F.
B520c	1	18'-4"	Vert. Stem NF N.W. Wingwall
B521c	1	18'-1"	Vert. Stem NF N.W. Wingwall
B522c	1	17'-10"	Vert. Stem NF N.W. Wingwall
B523c	1	17'-7"	Vert. Stem NF N.W. Wingwall
B524c	1	17'-4"	Vert. Stem NF N.W. Wingwall
B525c	1	17'-1"	Vert. Stem NF N.W. Wingwall
B526c	1	16'-10"	Vert. Stem NF N.W. Wingwall
B527c	1	16'-7"	Vert. Stem NF N.W. Wingwall
B528c	1	16'-4"	Vert. Stem NF N.W. Wingwall
B529c	1	16'-0"	Vert. Stem NF N.W. Wingwall
B530c	1	15'-9"	Vert. Stem NF N.W. Wingwall
B531c	1	15'-6"	Vert. Stem NF N.W. Wingwall
B532c	1	15'-3"	Vert. Stem NF N.W. Wingwall
B533c	1	15'-0"	Vert. Stem NF N.W. Wingwall
B534c	1	14'-9"	Vert. Stem NF N.W. Wingwall
B535c	1	14'-6"	Vert. Stem NF N.W. Wingwall
B536c	1	14'-3"	Vert. Stem NF N.W. Wingwall
B537c	1	13'-11"	Vert. Stem NF N.W. Wingwall
B538c	1	13'-8"	Vert. Stem NF N.W. Wingwall
B539c	1	13'-5"	Vert. Stem NF N.W. Wingwall
B540c	1	13'-2"	Vert. Stem NF N.W. Wingwall
B541c	1	12'-11"	Vert. Stem NF N.W. Wingwall
B542c	1	12'-8"	Vert. Stem NF N.W. Wingwall
B543c	1	12'-5"	Vert. Stem NF N.W. Wingwall
B544c	1	12'-2"	Vert. Stem NF N.W. Wingwall

MARK	QTY.	LENGTH	LOCATION
		ABUTMENT NO. 2	
B545c	1	11'-11"	Vert. Stem NF N.W. Wingwall
B546c	1	11'-7"	Vert. Stem NF N.W. Wingwall
B547c	1	11'-4"	Vert. Stem NF N.W. Wingwall
B548c	1	11'-1"	Vert. Stem NF N.W. Wingwall
B549c	1	10'-10"	Vert. Stem NF N.W. Wingwall
B550c	1	10'-7"	Vert. Stem NF N.W. Wingwall
B551c	2	7'-9"	Vert. Stem N.W. Wingwall
B552c	2	8'-0"	Vert. Stem N.W. Wingwall
B553c	2	8'-3"	Vert. Stem N.W. Wingwall
B554c	2	8'-7"	Vert. Stem N.W. Wingwall
B555c	2	8'-10"	Vert. Stem N.W. Wingwall
B556c	2	9'-1"	Vert. Stem N.W. Wingwall
B557c	2	9'-4"	Vert. Stem N.W. Wingwall
B558c	2	9'-7"	Vert. Stem N.W. Wingwall
B559c	2	9'-10"	Vert. Stem N.W. Wingwall
B560c	2	10'-1"	Vert. Stem N.W. Wingwall
B561c	2	10'-4"	Vert. Stem N.W. Wingwall
B562c	2	10'-7"	Vert. Stem N.W. Wingwall
B563c	2	10'-11"	Vert. Stem N.W. Wingwall
B564c	2	11'-2"	Vert. Stem N.W. Wingwall
B565c	2	11'-6"	Vert. Stem N.W. Wingwall
B566c	10	11'-7"	Vert. Stem N.W. Wingwall
B567c	4	31'-8"	Stem N.W. Wingwall
B568c	4	15'-6"	Stem N.W. Wingwall
B569c	4	4'-2"	Stem N.W. Wingwall
B570c	38	19'-3"	Horiz. Stem N.W. Wingwall
B571c	2	18'-0"	Horiz. Stem N.W. Wingwall
B572c	2	14'-2"	Horiz. Stem N.W. Wingwall
B573c	2	10'-4"	Horiz. Stem N.W. Wingwall
B574c	2	6'-6"	Horiz. Stem N.W. Wingwall
B575c	22	30'-8"	Horiz. Stem N.W. Wingwall
B576c	2	28'-10"	Horiz. Stem N.W. Wingwall
B577c	2	25'-0"	Horiz. Stem N.W. Wingwall
B578c	2	21'-2"	Horiz. Stem N.W. Wingwall
B579c	2	17'-3"	Horiz. Stem N.W. Wingwall
B580c	2	13'-5"	Horiz. Stem N.W. Wingwall
B581c	2	9'-7"	Horiz. Stem N.W. Wingwall
B582c	2	5'-9"	Horiz. Stem N.W. Wingwall
B583c	2	1'-11"	Horiz. Stem N.W. Wingwall
B590c	1	14'-3"	Vert. Stem NF S.W. Wingwall
B591c	1	13'-9"	Vert. Stem NF S.W. Wingwall
B592c	1	13'-3"	Vert. Stem NF S.W. Wingwall
B593c	1	12'-9"	Vert. Stem NF S.W. Wingwall
B594c	1	12'-2"	Vert. Stem NF S.W. Wingwall
B595c	1	11'-9"	Vert. Stem NF S.W. Wingwall
B596c	2	1'-10"	Vert. Stem S.W. Wingwall
B597c	2	2'-4"	Vert. Stem S.W. Wingwall
B598c	2	2'-10"	Vert. Stem S.W. Wingwall
B599c	2	3'-5"	Vert. Stem S.W. Wingwall
B5100c	2	3'-11"	Vert. Stem S.W. Wingwall
B5101c	2	4'-5"	Vert. Stem S.W. Wingwall
B5102c	2	4'-11"	Vert. Stem S.W. Wingwall
B5103c	2	5'-6"	Vert. Stem S.W. Wingwall
B5104c	2	6'-0"	Vert. Stem S.W. Wingwall
B5105c	2	6'-6"	Vert. Stem S.W. Wingwall
B5106c	2	7'-0"	Vert. Stem S.W. Wingwall
B5107c	2	7'-7"	Vert. Stem S.W. Wingwall
B5108c	2	8'-1"	Vert. Stem S.W. Wingwall
B5109c	2	8'-7"	Vert. Stem S.W. Wingwall
B5110c	2	9'-1"	Vert. Stem S.W. Wingwall
B5111c	2	9'-8"	Vert. Stem S.W. Wingwall
B5112c	2	10'-2"	Vert. Stem S.W. Wingwall
B5113c	2	10'-8"	Vert. Stem S.W. Wingwall
B5114c	2	11'-2"	Vert. Stem S.W. Wingwall
B5115c	2	11'-9"	Vert. Stem S.W. Wingwall
B5116c	2	12'-3"	Vert. Stem S.W. Wingwall
B5117c	2	12'-9"	Vert. Stem S.W. Wingwall
B5118c	13	13'-1"	Vert. Stem S.W. Wingwall
B5119c	3	30'-2"	Vert. Stem S.W. Wingwall
B5120c	24	29'-2"	Horiz. Stem S.W. Wingwall
B5121c	2	28'-5"	Horiz. Stem S.W. Wingwall
B5122c	2	26'-6"	Horiz. Stem S.W. Wingwall
B5123c	2	24'-7"	Horiz. Stem S.W. Wingwall
B5124c	2	22'-8"	Horiz. Stem S.W. Wingwall
B5125c	2	20'-9"	Horiz. Stem S.W. Wingwall
B5126c	2	18'-10"	Horiz. Stem S.W. Wingwall
B5127c	2	16'-11"	Horiz. Stem S.W. Wingwall
B5128c	2	15'-0"	Horiz. Stem S.W. Wingwall
B5129c	2	13'-1"	Horiz. Stem S.W. Wingwall
B5130c	2	11'-2"	Horiz. Stem S.W. Wingwall
B5131c	2	9'-3"	Horiz. Stem S.W. Wingwall
B5132c	2	7'-4"	Horiz. Stem S.W. Wingwall
B5133c	2	5'-5"	Horiz. Stem S.W. Wingwall
B5134c	3	3'-6"	Horiz. Stem S.W. Wingwall

BENT BARS

MARK	QTY.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION
						ABUTMENT NO. 2								
B5150c	45	14'-10"	U		6'-2"	2'-6"	6'-2"							Abutment Stem Cap
B5151c	32	15'-10"	U		6'-8"	2'-6"	6'-8"							Abutment Stem Cap
B5152c	22	16'-4"	U		6'-11"	2'-6"	6'-11"							Abutment Stem Cap
B5153c	47	3'-8"	U		10"	2'-0"	10"							NW Wingwall Cap
B5154c	24	3'-2"	U		10"	1'-6"	10"							SW Wingwall Cap
B5155c	23	7'-6"	V				4'-0"	3'-6"			2'-11½"			NW Wingwall F.F
B5156c	18	5'-0"	V				2'-6"	2'-6"			1'-0½"			NW Wingwall N.F
B5157c	5	6'-2"	J	2'-6"		2'-6"					2'-1¼"		6"	NW Wingwall N.F
B5158c	26	9'-6"	A				6'-0"	3'-6"			3'-0"			SW Wingwall F.F
B5159c	21	5'-0"	V				2'-6"	2'-6"			1'-9¼"			SW Wingwall N.F
B5160c	5	6'-4"	J	2'-6"		2'-6"					7½"		9¾"	SW Wingwall N.F
B750c	261	6'-10"	L	5'-8"	1'-2"									Footing
B850c	97	7'-5"	L	6'-1"	1'-4"									Footing

TYPE - BENDING DIAGRAMS



All dimensions are out-to-out of bar.

Bending details and hooks shall conform to the recommendations of the current revision of ACI Standard 315 and ACI Standard 318.

Plain Reinforcing Steel:	ASTM A615, Grade 60
Stainless Steel Reinforcing:	ASTM A955, Grade 75
Glass Fiber Reinforced Polymer:	ASTM D7957
Low-Carbon Chromium Steel:	ASTM A1035, Type CS, Grade 100

GENERAL NOTES

1. The first digit(s) following the letter(s) of the mark indicate the size ofthe bar:

   Mark "A502" = bar size #5
   Mark "S650" = bar size #6
   Mark "P805" = bar size #8
   Mark "P1404" = bar size #14

2. The lower case letter following the bar number indicated the material of the bar.

   "A500b", b = (Black) Plain Steel
   "A550s", s = Stainless Steel
   "S500g", g = Glass Fiber Reinforced Polymer
   "P510c", c = Low-carbon Chromium Steel

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS
WIN 21672.00
BRIDGE NO. 5808

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	SW	KLW	JUNE 2023
CHECKED-REVIEWED	TEK	EGM	JUNE 2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
P.E. NUMBER
DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

REINFORCING SCHEDULE (2 OF 4)

SHEET NUMBER
144
OF 190

Filename: ...\MSTA_Rebar_Schedule3.dgn Username: kwight Division: BRIDGE Date:7/18/2023

STRAIGHT BARS

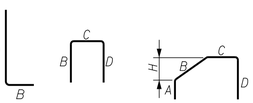
MARK	QTY.	LENGTH	LOCATION
		ABUTMENT 2	
B700	60	9'-6"	Footing
B701	183	10'-6"	Footing
B702	200	14'-0"	Footing
B703c	130	9'-0"	Vert. Stem FF
B704c	56	13'-2"	Vert. Stem FF
B705c	69	14'-8"	Vert. Stem FF
B706c	1	14'-3"	Vert. Stem NF S.W.Wingwall
B707c	1	13'-9"	Vert. Stem NF S.W.Wingwall
B708c	1	13'-3"	Vert. Stem NF S.W.Wingwall
B709c	1	12'-9"	Vert. Stem NF S.W.Wingwall
B710c	1	12'-2"	Vert. Stem NF S.W.Wingwall
B711c	1	11'-9"	Vert. Stem NF S.W.Wingwall
B800c	48	8'-3"	Vert. Stem NF N.W.Wingwall
B801c	19	13'-0"	Vert. Stem NF N.W.Wingwall
B802c	1	18'-4"	Vert. Stem NF N.W.Wingwall
B803c	1	18'-1"	Vert. Stem NF N.W.Wingwall
B804c	1	17'-10"	Vert. Stem NF N.W.Wingwall
B805c	1	17'-7"	Vert. Stem NF N.W.Wingwall
B806c	1	17'-4"	Vert. Stem NF N.W.Wingwall
B807c	1	17'-1"	Vert. Stem NF N.W.Wingwall
B808c	1	16'-10"	Vert. Stem NF N.W.Wingwall
B809c	1	16'-7"	Vert. Stem NF N.W.Wingwall
B810c	1	16'-4"	Vert. Stem NF N.W.Wingwall
B811c	1	16'-0"	Vert. Stem NF N.W.Wingwall
B812c	1	15'-9"	Vert. Stem NF N.W.Wingwall
B813c	1	15'-6"	Vert. Stem NF N.W.Wingwall
B814c	1	15'-3"	Vert. Stem NF N.W.Wingwall
B815c	1	15'-0"	Vert. Stem NF N.W.Wingwall
B816c	1	14'-9"	Vert. Stem NF N.W.Wingwall
B817c	1	14'-6"	Vert. Stem NF N.W.Wingwall
B818c	1	14'-3"	Vert. Stem NF N.W.Wingwall
B819c	1	13'-11"	Vert. Stem NF N.W.Wingwall
B820c	1	13'-8"	Vert. Stem NF N.W.Wingwall
B821c	1	13'-5"	Vert. Stem NF N.W.Wingwall
B822c	1	13'-2"	Vert. Stem NF N.W.Wingwall
B823c	1	12'-11"	Vert. Stem NF N.W.Wingwall
B824c	1	12'-8"	Vert. Stem NF N.W.Wingwall
B825c	1	12'-5"	Vert. Stem NF N.W.Wingwall
B826c	1	12'-2"	Vert. Stem NF N.W.Wingwall
B827c	1	11'-11"	Vert. Stem NF N.W.Wingwall
B828c	1	11'-7"	Vert. Stem NF N.W.Wingwall
B829c	1	11'-4"	Vert. Stem NF N.W.Wingwall
B830c	1	11'-1"	Vert. Stem NF N.W.Wingwall
B831c	1	10'-10"	Vert. Stem NF N.W.Wingwall
B832c	1	10'-7"	Vert. Stem NF N.W.Wingwall
		APPROACH SLAB	
AS500	18	33'-3"	SW Approach Slab Trans.
AS501	18	44'-3"	NW Approach Slab Trans.
AS502	18	31'-7"	SE Approach Slab Trans.
AS503	18	41'-9"	NE Approach Slab Trans.
AS900	43	20'-7"	SW Approach Slab Long.
AS901	57	20'-7"	NW Approach Slab Long.
AS902	43	19'-6"	SE Approach Slab Long.
AS903	57	19'-6"	NE Approach Slab Long.

MARK	QTY.	LENGTH	LOCATION
		PIER	
P500c	16	28'-4"	Footing
P501c	58	7'-4"	Footing
P510c	2	22'-9"	South Wall Stem
P511c	2	23'-5"	South Wall Stem
P512c	2	24'-1"	South Wall Stem
P513c	2	24'-9"	South Wall Stem
P514c	2	25'-5"	South Wall Stem
P515c	2	26'-1"	South Wall Stem
P516c	2	26'-9"	South Wall Stem
P517c	2	27'-5"	South Wall Stem
P518c	2	28'-1"	South Wall Stem
P519c	2	28'-9"	South Wall Stem
P520c	2	29'-5"	South Wall Stem
P521c	2	30'-1"	South Wall Stem
P522c	2	30'-9"	South Wall Stem
P523c	2	31'-5"	South Wall Stem
P524c	2	32'-1"	South Wall Stem
P525c	2	32'-9"	South Wall Stem
P526c	2	33'-5"	South Wall Stem
P527c	2	34'-0"	South Wall Stem
P530c	2	26'-9"	North Wall Stem
P531c	2	27'-5"	North Wall Stem
P532c	2	28'-1"	North Wall Stem
P533c	2	28'-9"	North Wall Stem
P534c	2	29'-5"	North Wall Stem
P535c	2	30'-1"	North Wall Stem
P536c	2	30'-9"	North Wall Stem
P537c	2	31'-5"	North Wall Stem
P538c	2	32'-1"	North Wall Stem
P539c	2	32'-9"	North Wall Stem
P540c	2	33'-5"	North Wall Stem
P541c	2	34'-1"	North Wall Stem
P542c	2	34'-9"	North Wall Stem
P543c	2	35'-5"	North Wall Stem
P544c	2	35'-7"	North Wall Stem
P545c	20	22'-8"	South Wall Cap
P546c	20	28'-2"	North Wall Cap
P1000c	104	9'-6"	Footing Dowel
P1001c	48	20'-2"	South Wall Stem
P1002c	2	21'-0"	South Wall Stem
P1003c	2	18'-1"	South Wall Stem
P1004c	2	15'-1"	South Wall Stem
P1005c	2	12'-1"	South Wall Stem
P1006c	2	9'-1"	South Wall Stem
P1007c	2	6'-2"	South Wall Stem
P1008c	4	23'-0"	South Wall Stem
P1009c	2	20'-3"	South Wall Stem
P1010c	2	17'-3"	South Wall Stem
P1011c	2	14'-3"	South Wall Stem
P1012c	2	11'-2"	South Wall Stem
P1013c	2	8'-2"	South Wall Stem
P1015c	4	21'-9"	South Wall Stem
P1020c	56	16'-3"	North Wall Stem
P1021c	2	17'-6"	North Wall Stem
P1022c	2	14'-6"	North Wall Stem
P1023c	2	11'-6"	North Wall Stem
P1024c	2	8'-7"	North Wall Stem
P1026c	4	19'-2"	North Wall Stem
P1027c	2	16'-7"	North Wall Stem
P1028c	2	13'-7"	North Wall Stem
P1029c	2	10'-6"	North Wall Stem
P1030c	2	7'-6"	North Wall Stem
P1031c	4	17'-11"	North Wall Stem

BENT BARS

MARK	QTY.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION
							PIER							
P450c	140	1'-10"	L	1'-2"	8"									Footing
P550c	64	9'-2"	U		3'-3"	2'-8"	3'-3"							North & South Wall Stem Ends
P551c	4	14'-4"	BS	3'-3"	3'-11"	3'-11"	3'-3"				3'-10"			South Wall Cap
P552c	4	13'-11"	BS	3'-3"	3'-8"	3'-9"	3'-3"				3'-6"			South Wall Cap
P553c	4	18'-9"	BS	3'-3"	9'-6"	2'-9"	3'-3"				9'-3"			North Wall Cap
P554c	4	16'-9"	BS	3'-3"	7'-7"	2'-8"	3'-3"				7'-4"			North Wall Cap
P555c	28	9'-10"	U		3'-3"	3'-4"	3'-3"							North & South Wall Cap
P560c	170	10'-10"	U		3'-8"	3'-6"	3'-8"							North & South Wall Cap
P561c	16	9'-2"	U		2'-10"	3'-6"	2'-10"							North Wall Cap
P564c	39	7'-0"	U		2'-0"	3'-0"	2'-0"							Curved Girder Alternate- Pedestal
P565c	52	5'-11"	U		2'-0"	1'-11"	2'-0"							Curved Girder Alternate- Pedestal
P570c	108	6'-2"	U		2'-0"	2'-2"	2'-0"							PBU Alternate - Pedestal
P571c	108	5'-6"	U		2'-0"	1'-6"	2'-0"							PBU Alternate - Pedestal
P950c	14	19'-7"	L	18'-0"	1'-7"									South Wall Cap
P951c	14	30'-1"	L	28'-6"	1'-7"									South Wall Cap
P952c	14	25'-1"	L	23'-6"	1'-7"									North Wall Cap
P953c	14	35'-7"	L	34'-0"	1'-7"									North Wall Cap

TYPE - BENDING DIAGRAMS



All dimensions are out-to-out of bar.

Bending details and hooks shall conform to the recommendations of the current revision of ACI Standard 315 and ACI Standard 318.

Plain Reinforcing Steel:	ASTM	A615, Grade 60
Stainless Steel Reinforcing:	ASTM	A955, Grade 75
Glass Fiber Reinforced Polymer:	ASTM	D7957
Low-Carbon Chromium Steel:	ASTM	A1035, Type CS, Grade 100

GENERAL NOTES

1. The first digit(s) following the letter(s) of the mark indicate the size ofthe bar:

   Mark "A502" = bar size #5
   Mark "S650" = bar size #6
   Mark "P805" = bar size #8
   Mark "P1404" = bar size #14

2. The lower case letter following the bar number indicated the material of the bar.

   "A500b", b = (Black) Plain Steel
   "A550s", s = Stainless Steel
   "S500g", g = Glass Fiber Reinforced Polymer
   "P510c", c = Low-carbon Chromium Steel

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS

WIN 21672.00

BRIDGE NO. 5808

PROJ. MANAGER	D. EATON	BY	DATE
DESIGN-DETAILED	SW/IS	KLW/KBJ	JUNE 2023
CHECKED-REVIEWED	TEK/DDT	EGM/DDT	JUNE 2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

REINFORCING SCHEDULE (3 OF 4)

SHEET NUMBER

145

OF 190

Filename: ...\MSTA_Rebor_Schedule4.dgn Division: BRIDGE Username: kwight Date:7/18/2023

STRAIGHT BARS

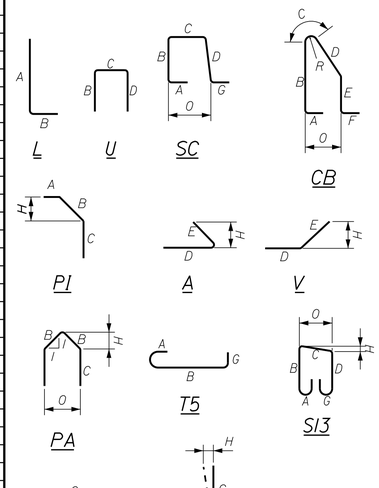
MARK	QTY.	LENGTH	LOCATION
SUPERSTRUCTURE - PBU ALTERNATE ONLY			
S401c	30	34'-8"	Longitudinal Median
S501c	112	40'-0"	Longitudinal Closure Pour
S502c	56	47'-2"	Longitudinal Closure Pour
S503c	56	30'-5"	Longitudinal Closure Pour
S504c	80	35'-4"	Longitudinal Sidewalk
S505c	20	52'-1"	Trans. - End of Deck Abut. 1
S506c	20	41'-11"	Trans. - End of Deck Abut. 1
S507c	20	55'-1"	Trans. - End of Deck Abut. 2
S508c	20	44'-0"	Trans. - End of Deck Abut. 2
S509c	34	53'-7"	Transverse - Link Slab
S510c	34	42'-11"	Transverse - Link Slab
S515c	57	22'-9"	Abut. No. 1 Backwall
S516c	19	32'-9"	Abut. No. 1 Backwall
S517c	57	23'-9"	Abut. No. 2 Backwall
S518c	19	34'-10"	Abut. No. 2 Backwall
S601c	77	21'-0"	Long. Closure Pour Link Slab

MARK	QTY.	LENGTH	LOCATION
SUPER. - CURVED GIRDER ALTERNATE ONLY			
S400c	30	34'-8"	EB & WB Median, Longitudinal
S500c	57	22'-9"	Abut. No. 1 Backwall, Horiz.
S501c	19	32'-9"	Abut. No. 1 Backwall, Horiz.
S502c	57	23'-9"	Abut. No. 2 Backwall, Horiz.
S503c	19	34'-10"	Abut. No. 2 Backwall, Horiz.
S504c	610	37'-9"	EB Deck, Transverse
S505c	562	46'-9"	WB Deck, Transverse
S506c	940	35'-4"	EB & WB Deck & Sdwk, Long.
S507c	20	7'-6"	EB & WB Deck, Acute Corners
S600c	112	47'-0"	EB & WB Deck, Long. at Pier
E500c	2	37'-0"	EB Deck, Trans. at Abut. No. 1
thru	2 Ea.	incr. = 1'-0"	EB Deck, Trans. at Abut. No. 1
E535c	2	2'-0"	EB Deck, Trans. at Abut. No. 1
E536c	2	36'-10"	EB Deck, Trans. at Abut. No. 2
thru	2 Ea.	incr. = 10"	EB Deck, Trans. at Abut. No. 2
E578c	2	1'-10"	EB Deck, Trans. at Abut. No. 2
W500c	2	46'-6"	WB Deck, Trans. at Abut. No. 1
thru	2 Ea.	incr. = 1'-0"	WB Deck, Trans. at Abut. No. 1
W544c	2	2'-6"	WB Deck, Trans. at Abut. No. 1
W545c	2	46'-5"	WB Deck, Trans. at Abut. No. 2
thru	2 Ea.	incr. = 9½"	WB Deck, Trans. at Abut. No. 2
W510lc	2	2'-1"	WB Deck, Trans. at Abut. No. 2

BENT BARS

MARK	QTY.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION
SUPERSTRUCTURE - PBU ALTERNATE ONLY														
S451c	52	4'-2¾"	CB	8"	1'-0½"	5½"	8½"	8¼"	8"			1'-1"	8"	Median
S452c	148	7'-10"	T5	6"	7'-4"					0"				Overhang
S551c	76	5'-4"	SC	10"	1'-2"	1'-4"	1'-2"			10"		1'-4"		Curb
S552c	338	7'-4"	T5	7"	6'-3"					6"				Sidewalk
S553c	55	2'-2"	U		10"	6"	10"							Sidewalk
S560c	197	7'-0"	L	4'-6"	2'-6"									Abutment Backwall
S561c	125	7'-0"	PI	2'-6"	10"	3'-8"					7"			Abutment Backwall
S562c	384	6'-4"	U		2'-0"	2'-4"	2'-0"							Abutment Backwall
S563c	40	4'-8"	SI3		1'-2"	2'-4"	1'-2"				1'-0½"	2'-2"		Abutment Backwall
S564c	24	4'-2"	SI3		1'-2"	1'-10"	1'-2"				9½"	1'-8"		Abutment Backwall
S565c	8	4'-6"	PA		9"	1'-6"					6⅜"	1'-0¾"		Conduit Blockout
S651c	134	5'-0"	V				2'-6"	2'-6"			1'-9"			Approach Slab Dowel
SUPERSTRUCTURE - CURVED GIRDER ALTERNATE ONLY														
S450c	343	4'-4"	CB	8"	10½"	7"	9"	9½"	8"			1'-1"	3"	EB & WB Median, Transverse
S550c	388	6'-8"	U		2'-2"	2'-4"	2'-2"							Abutment Backwall Stirrups
S551c	176	7'-4"	PI	2'-6"	10"	4'-0"					7"			Abut. Backwall Vertical, NF
S552c	228	7'-5"	L	4'-11"	2'-6"									Abut. Backwall Vertical, FF
S553c	40	6'-2"	U		2'-0"	2'-2"	2'-0"							Abut. Backwall Ends, Lower
S554c	24	5'-8"	U		2'-0"	1'-8"	2'-0"							Abut. Backwall Ends, Upper
S555c	8	4'-0"	L	2'-0"	2'-0"									Abutment Backwall, Utility
S556c	666	7'-1"	T5	7"	6'-6"					--				EB & WB Deck, Trans. Overhang
S557c	177	10'-2"	SC	10"	1'-0½"	6'-3"	1'-2½"			10"		6'-5"		EB Sidewalk, Transverse
S558c	175	10'-2½"	SC	10"	1'-3"	6'-3"	1'-0½"			10"		6'-5"		WB Sidewalk, Transverse
S559c	66	5'-0"	S	10"	1'-0½"	1'-3"	1'-0½"			10"				EB Sidewalk, Railing
S560c	66	5'-5"	S	10"	1'-3"	1'-3"	1'-3"			10"				WB Sidewalk, Railing
S650c	134	5'-0"	V				2'-6"	2'-6"			1'-9"			Abut. Backwall to Appr. Slab

TYPE - BENDING DIAGRAMS



All dimensions are out-to-out of bar.

Bending details and hooks shall conform to the recommendations of the current revision of ACI Standard 315 and ACI Standard 318.

Plain Reinforcing Steel:	*ASTM A615, Grade 60*
Stainless Steel Reinforcing:	*ASTM A955, Grade 75*
Glass Fiber Reinforced Polymer:	*ASTM D7957*
Low-Carbon Chromium Steel:	*ASTM A1035, Type CS, Grade 100*

GENERAL NOTES

1. *The first digit(s) following the letter(s) of the mark indicate the size ofthe bar:*

   Mark "A502" = bar size #5
   Mark "S650" = bar size #6
   Mark "P805" = bar size #8
   Mark "P1404" = bar size #14

2. *The lower case letter following the bar number indicated the material of the bar.*

   "A500b", b = (Black) Plain Steel
   "A550s", s = Stainless Steel
   "S500g", g = Glass Fiber Reinforced Polymer
   "P510c", c = Low-carbon Chromium Steel

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS

WIN 21672.00

BRIDGE NO. 5808

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	ECM	KLW	JUNE 2023
CHECKED-REVIEWED	PAC	KBJ/ECM	JUNE 2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

REINFORCING SCHEDULE (4 OF 4)

SHEET NUMBER

146

OF 190

Phase	Maximum Duration	Construction Activities	Roadway Closures	Detour Routes
Prior to 1A		- Construct Whitten Rd Connector and Begin Temporary Bridge Construction	None	None
1A	28 Days	- Construction of Temporary Bridge and Tie-Ins to Western Ave - Permanent Exit 109 NB & SB On Ramp Construction	- 109B SB Off Ramp - 109 NB & SB On Ramp from Western Ave EB	- I-95 Exit 109A SB Off Ramp to use Ramp F - Western Ave to Exit 109 On Ramp traffic to use Meadow Road / Fuller Road (cars) and Senator/Crossing Way (trucks) to reverse direction
1B	2 Nights		- 109B SB Off Ramp - 109 NB & SB Off Ramp to Western Ave WB	- I-95 Exit 109A SB Off Ramp to use Ramp F - NB & SB I-95 to Western Ave WB traffic to use Meadow Road / Fuller Road (cars) and Seantor/Crossing Way (trucks) to reverse direction.
2	8 Months	- Bridge Demolition & Proposed Bridge Construction	- Left turns for WB Western Ave Traffic	- WB Western Ave to Whitten Road Connector
	5 Nights	- Work in I-95 barrel and NB barrel	- I-95 SB	- Exit 109B SB off ramp to Western Ave/Edison Drive to reverse direction and then to Whitten Road Connector
3A	4 Day Extended Weekend	- Reconstruct Whitten Road and Whitten Road/Western Ave intersection to base pavement	- Whitten Road closed from Western Ave to Hannaford signal	- WB Western Ave to Whitten Road traffic to use Exit 109A NB and SB On Ramp (Ramp F) to Whitten Road Connector. - EB Western Ave to Whitten Road traffic to use Edison Drive and Alderwood Drive.
3B	4 Days	- Phase 3B shall commence immediately following the completion of Phase 3A. - Complete base pavement for Whitten Rd/ Western Ave intersection and construct Exit 109B SB Off Ramp and Exit 109 NB & SB Off Ramp tie ins.	- 109 NB & SB Off Ramp to Western Ave WB - Western Ave WB to Whitten Road (no left turn)	- 109A SB Off Ramp to Whitten Road Connector
After 3B	24 Days	- Finalize median work and paving on Western Ave and Whitten Road. - Deconstruct temporary bridge. - Remove Whitten Road Connector.	- 109B SB Off Ramp	None

MAINTENANCE OF TRAFFIC SHEET INDEX

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Whitten Road Connector	151-155
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Phase 1B	164-165
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MOT Sign Summary	185-187

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808 BRIDGE PLANS

			DATE
PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	PLP/KBJ	PLP/KBJ	JUNE 2023
CHECKED-REVIEWED	LEM	LEM	JUNE 2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

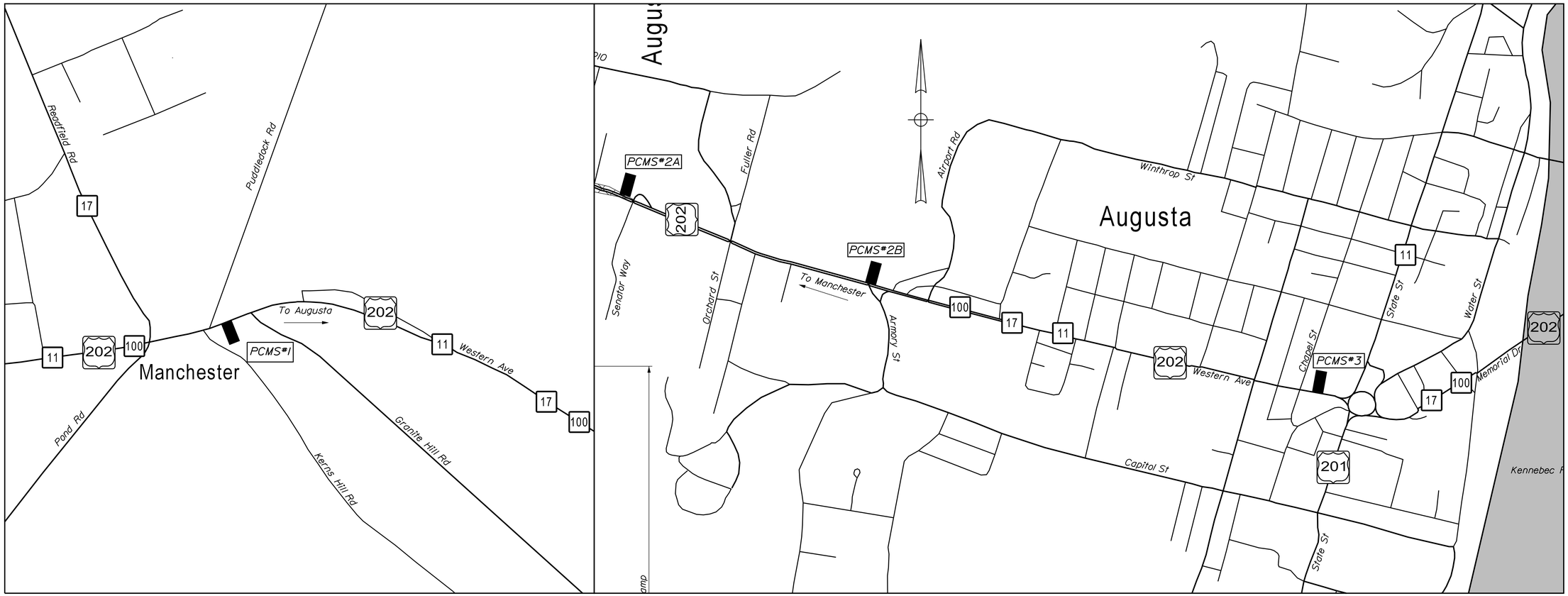
DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

MAINTENANCE OF TRAFFIC NOTES

SHEET NUMBER
147
OF 190

Stantec



PCMS #1

WESTERN AVE I-95	Screen 1
BRIDGE CLOSURE	Screen 2
XX/XX TO XX/XX	Screen 3

PCMS #2A & #2B

Phases 2, 3A & 3B		All other times
WHITTEN ROAD DETOUR	WESTERN AVE OVER I-95	Screen 1
USE RAMP	BRIDGE CLOSURE	Screen 2
	XX/XX TO XX/XX	Screen 3

PCMS #3

WESTERN AVE OVER I-95	Screen 1
BRIDGE CLOSURE	Screen 2
SEEK ALTERNATE ROUTE	Screen 3

PCMS MESSAGES

NOTES

1. Portable-Changeable Message Signs #1, #2, and #3 are to be used during the entirety of the project.

2. Contractor shall coordinate with Resident for P-CMS messages.

PLAN

500 0 500 1000

Scale of Feet

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00

BRIDGE NO. 5808 HIGHWAY PLANS

	BY	DATE
D. EATON		
PROJ. MANAGER	PLP/KBJ	JUNE 2023
DESIGN-DETAILED	PLP/KBJ	JUNE 2023
CHECKED-REVIEWED	LEM	
DESIGN2-DETAILED2	LEM	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

PCMS LOCATION PLANS (1 OF 3)

SHEET NUMBER

148

OF 190

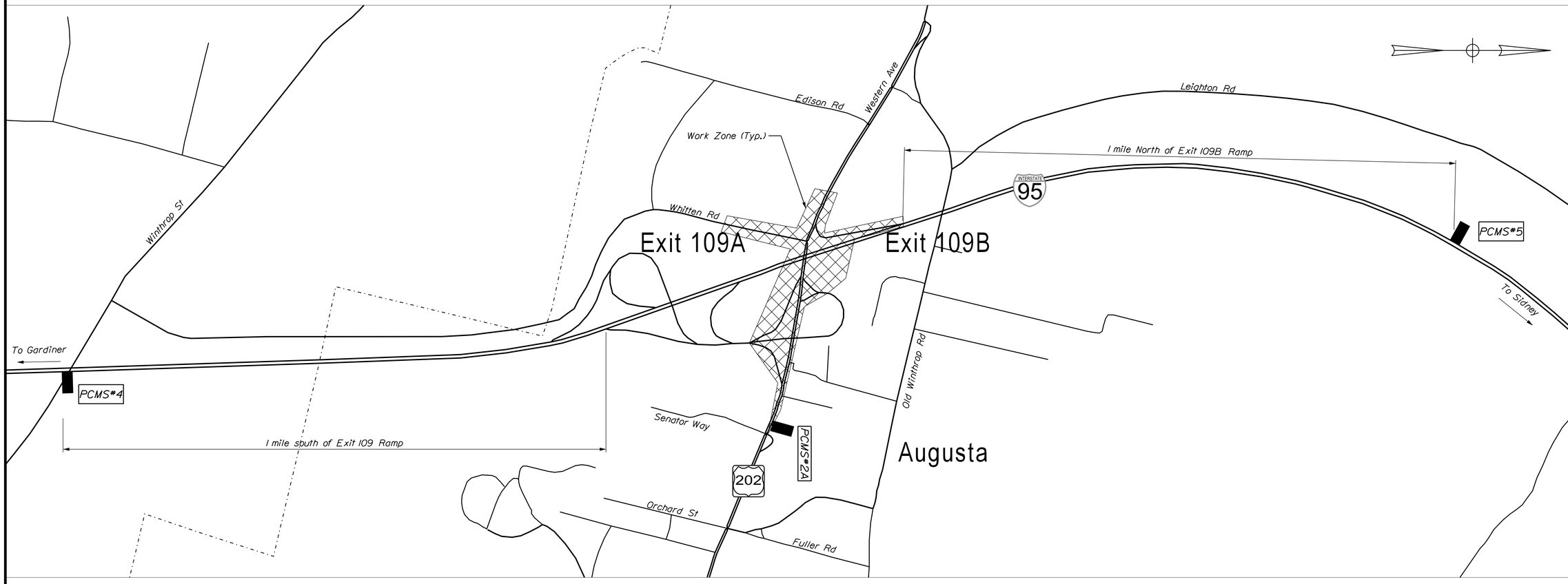
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NOTES

1. Portable-Changeable Message Signs *#4, #5, and #6 are to be used during the entirety of the project.*

2. Contractor shall coordinate with Resident for P-CMS messages.



PCMS #4

	Phase 1A	Phase 1B	Phase 2	Phase 3A	Phase 3B
Screen 1	WESTERN AVE BRIDGE CLOSED	WESTERN AVE BRIDGE CLOSED	WESTERN AVE BRIDGE CLOSED	WESTERN AVE BRIDGE CLOSED	WESTERN AVE BRIDGE CLOSED
Screen 2	SEEK ALTERNATE ROUTE	SEEK ALTERNATE ROUTE	SEEK ALTERNATE ROUTE	SEEK ALTERNATE ROUTE	SEEK ALTERNATE ROUTE

PCMS #5

	Phase 1A	Phase 1B	Phase 2	Phase 3A	Phase 3B
Screen 1	I-95 SB EXIT 109B CLOSED	I-95 SB EXIT 109B CLOSED	I-95 SB CLOSED 1 MILE	WESTERN AVE BRIDGE CLOSED	I-95 SB EXIT 109B CLOSED
Screen 2	USE I-95 EXIT 109A	USE I-95 EXIT 109A	FOLLOW DETOUR	SEEK ALTERNATE ROUTE	USE I-95 EXIT 109A

PCMS MESSAGES

PLAN

500 0 500 1000
Scale of Feet

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
HIGHWAY PLANS

	BY	DATE
D. EATON		
PROJ. MANAGER	PLP/KBJ	JUNE 2023
DESIGN-DETAILED	PLP/KBJ	JUNE 2023
CHECKED-REVIEWED	LEM	
DESIGN2-DETAILED2	LEM	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

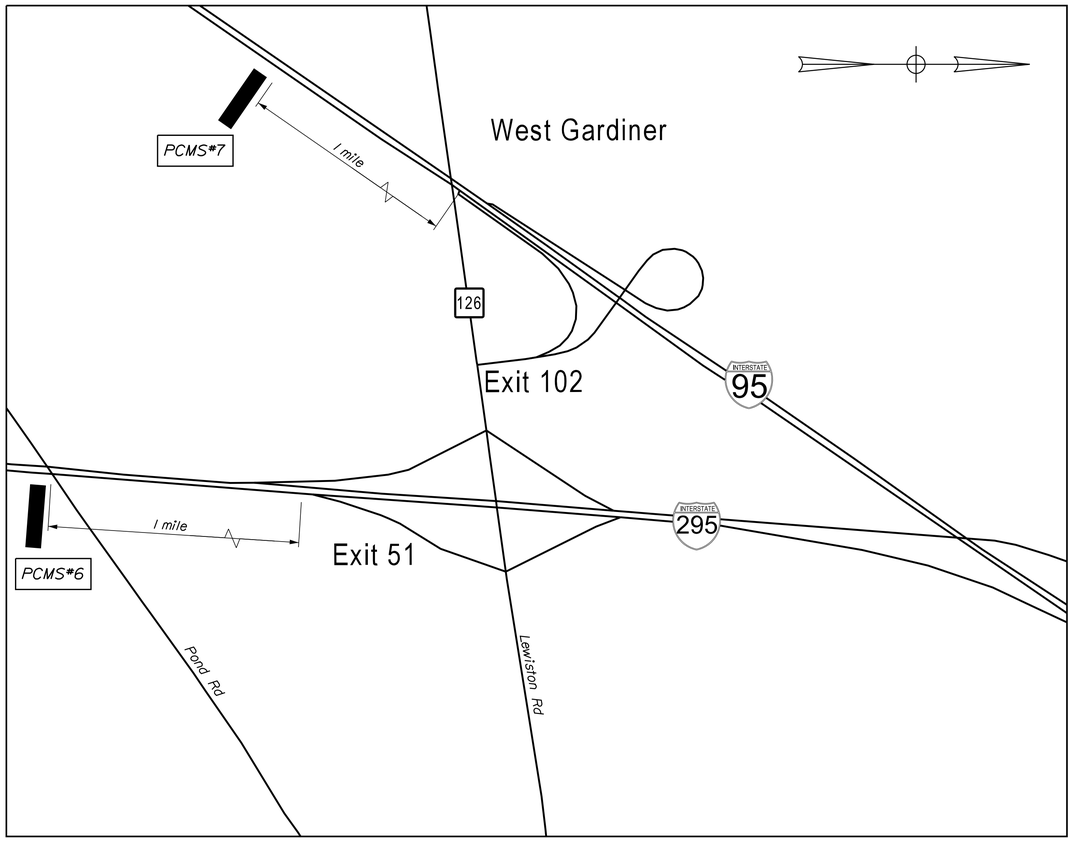
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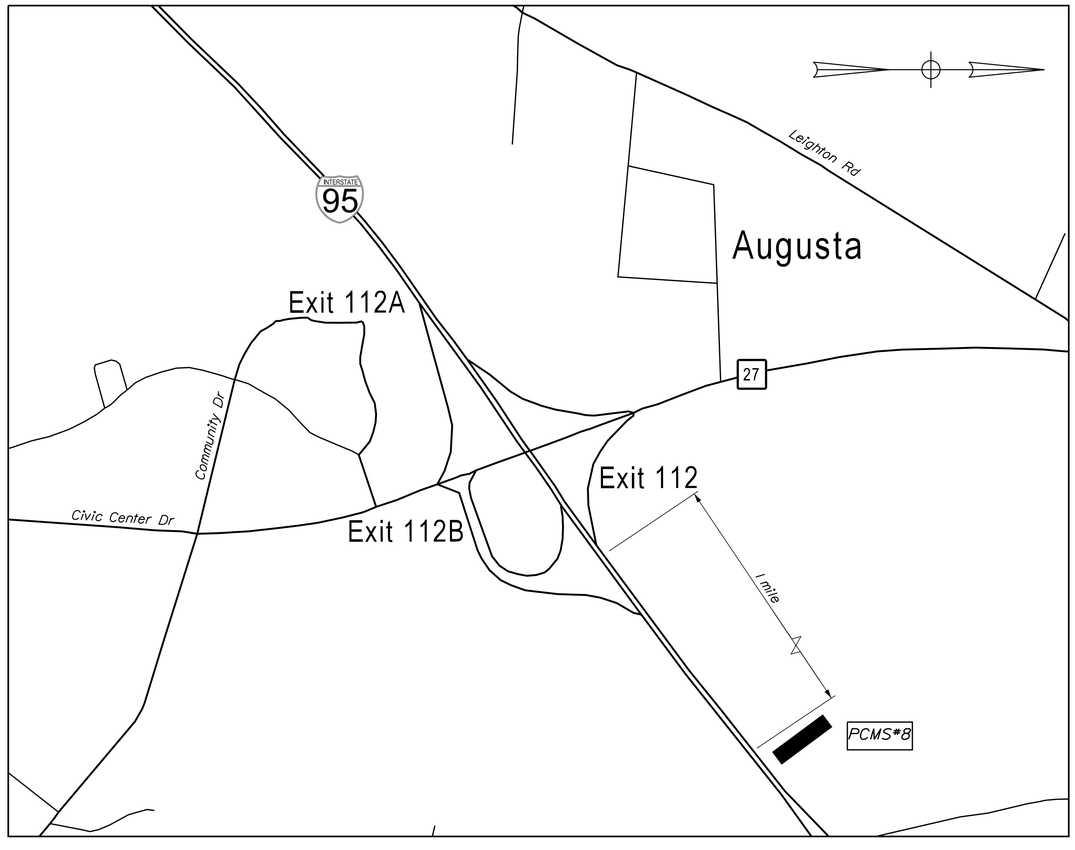
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WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

PCMS LOCATION PLANS (2 OF 3)

SHEET NUMBER
149
OF 190





PCMS #6	PCMS #7	PCMS #8
Screen 1: BRIDGE WORK EXIT 109	Screen 1: BRIDGE WORK EXIT 109	Screen 1: BRIDGE WORK EXIT 109B
Screen 2: WESTERN AVE OVER I-95	Screen 2: WESTERN AVE OVER I-95	Screen 2: WESTERN AVE OVER I-95
Screen 3: SEEK ALTERNATE ROUTE	Screen 3: SEEK ALTERNATE ROUTE	Screen 3: SEEK ALTERNATE ROUTE

PCMS MESSAGES

NOTES

1. Portable-Changeable Message Signs #6, #7, and #8 are to be used during the entirety of the project.

2. Contractor shall coordinate with Resident for P-CMS messages.

PLAN

500 0 500 1000

Scale of Feet

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00

BRIDGE NO. 5808 HIGHWAY PLANS

	BY	DATE
D. EATON		
PROJ. MANAGER	PLP/KBJ	JUNE 2023
DESIGN-DETAILED	PLP/KBJ	JUNE 2023
CHECKED-REVIEWED	LEM	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

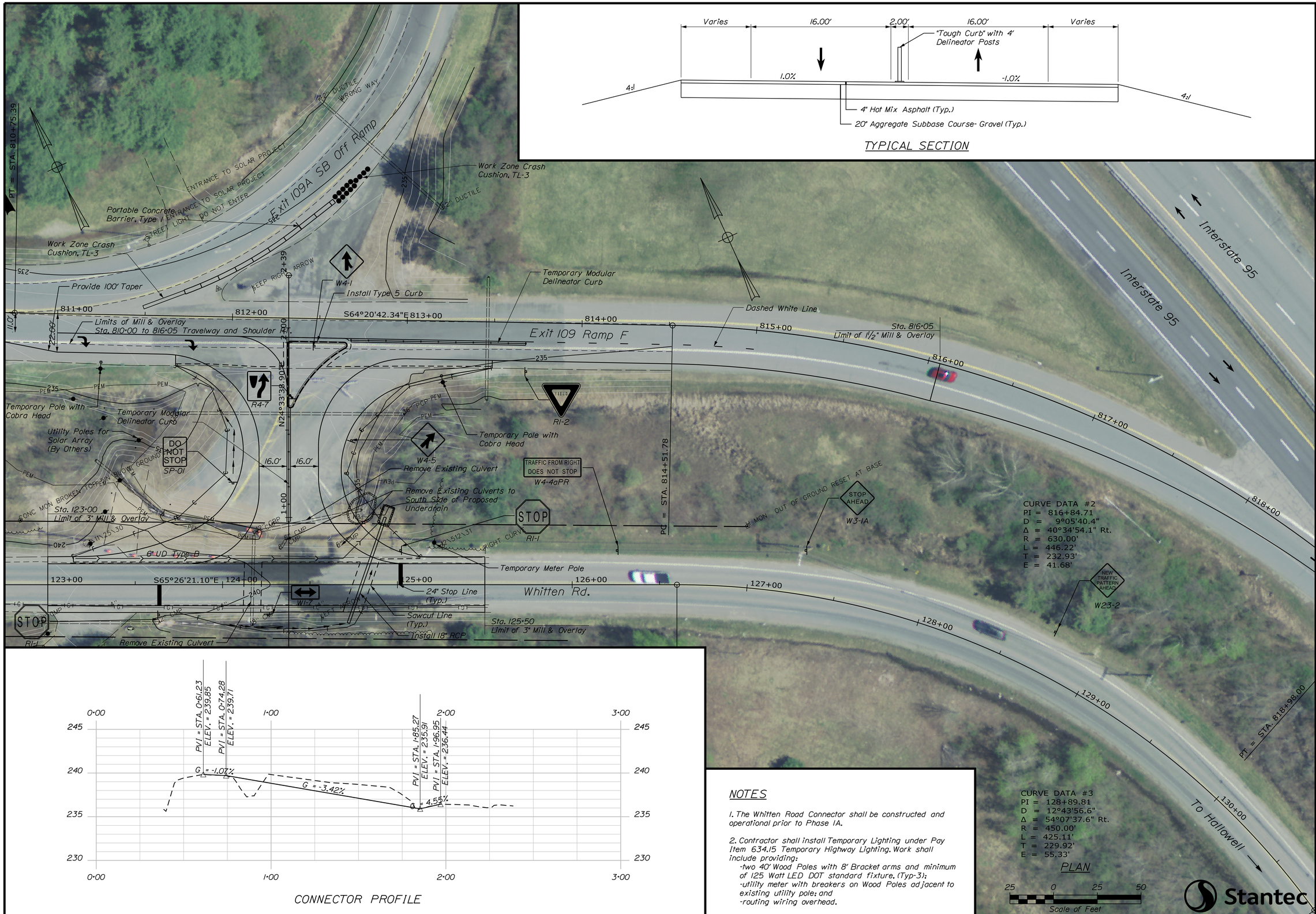
PCMS LOCATION PLANS
(3 OF 3)

SHEET NUMBER

150

OF 190

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NOTES

1. The Whitten Road Connector shall be constructed and operational prior to Phase 1A.

2. Contractor shall install Temporary Lighting under Pay Item 634.15 Temporary Highway Lighting. Work shall include providing:
   - -two 40' Wood Poles with 8' Bracket arms and minimum of 125 Watt LED DOT standard fixture. (Typ-3);
   - -utility meter with breakers on Wood Poles adjacent to existing utility pole; and
   - -routing wiring overhead.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00

BRIDGE NO. 5808

BRIDGE PLANS

PROJ. MANAGER	D. EATON
DESIGN-DETAILED	PLP/KBJ
CHECKED-REVIEWED	LEM
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	

	BY	DATE
REVISIONS 1	PLP/KBJ	JUNE 2023
REVISIONS 2	LEM	JUNE 2023
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

MAINTENANCE OF TRAFFIC WHITTEN RD CONNECTOR

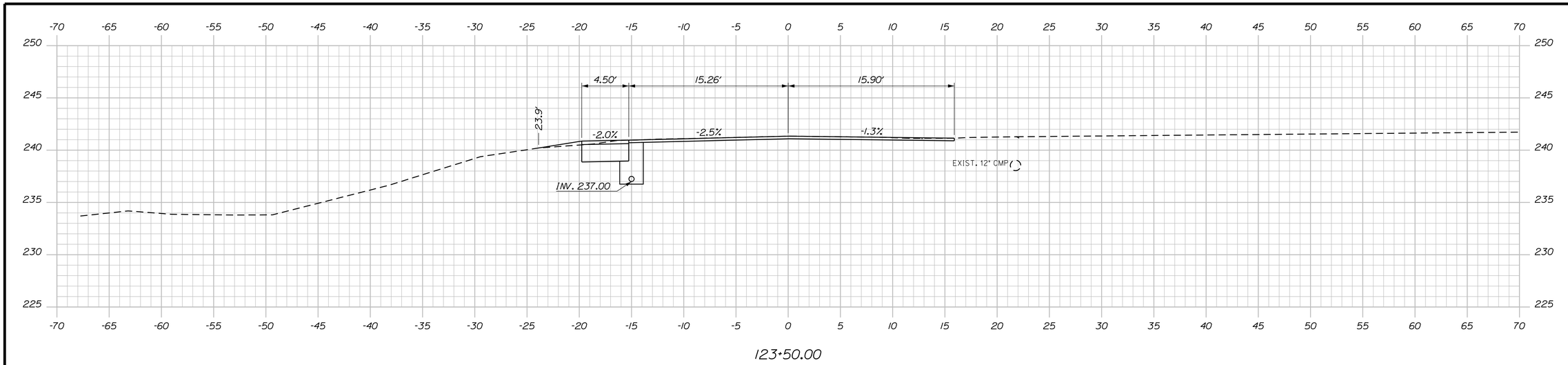
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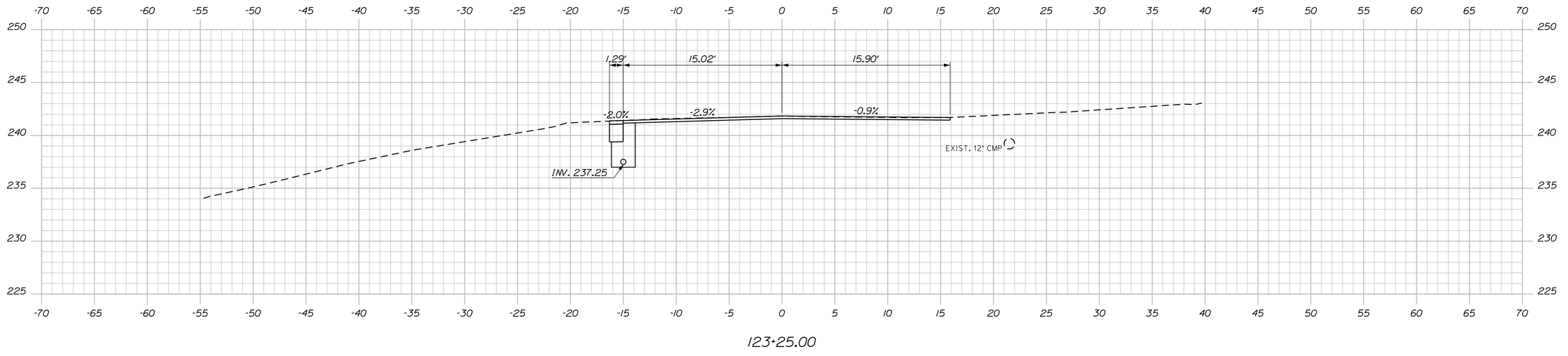
OF 190

Stantec

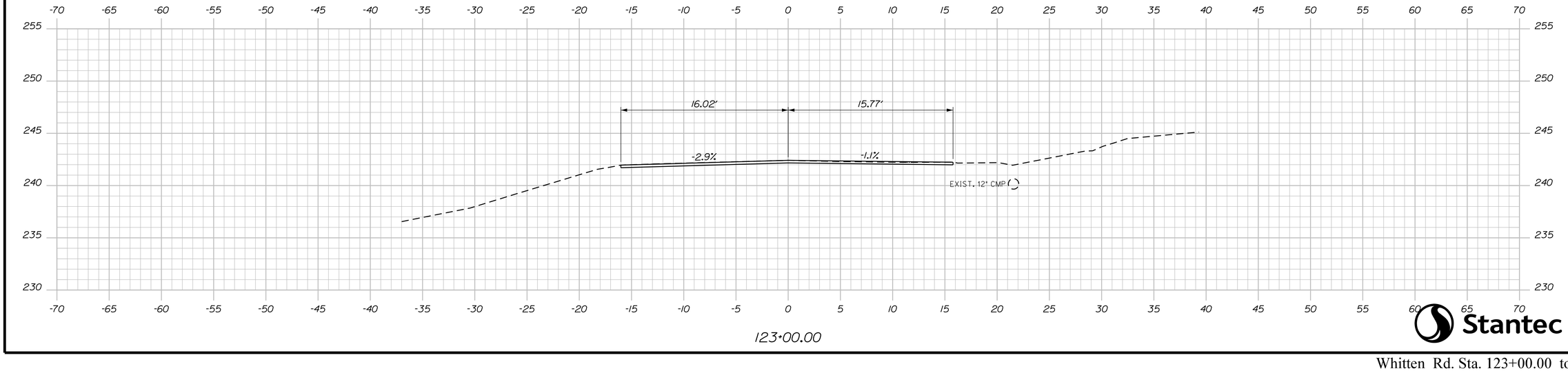
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123+50.00



123+25.00



123+00.00

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00

BRIDGE NO. 5808

BRIDGE PLANS

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	PLP/KBJ	PLP/KBJ	JUNE 2023
CHECKED-REVIEWED	LEM	LEM	JUNE 2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

MAINTENANCE OF TRAFFIC WHITTEN RD SECTIONS

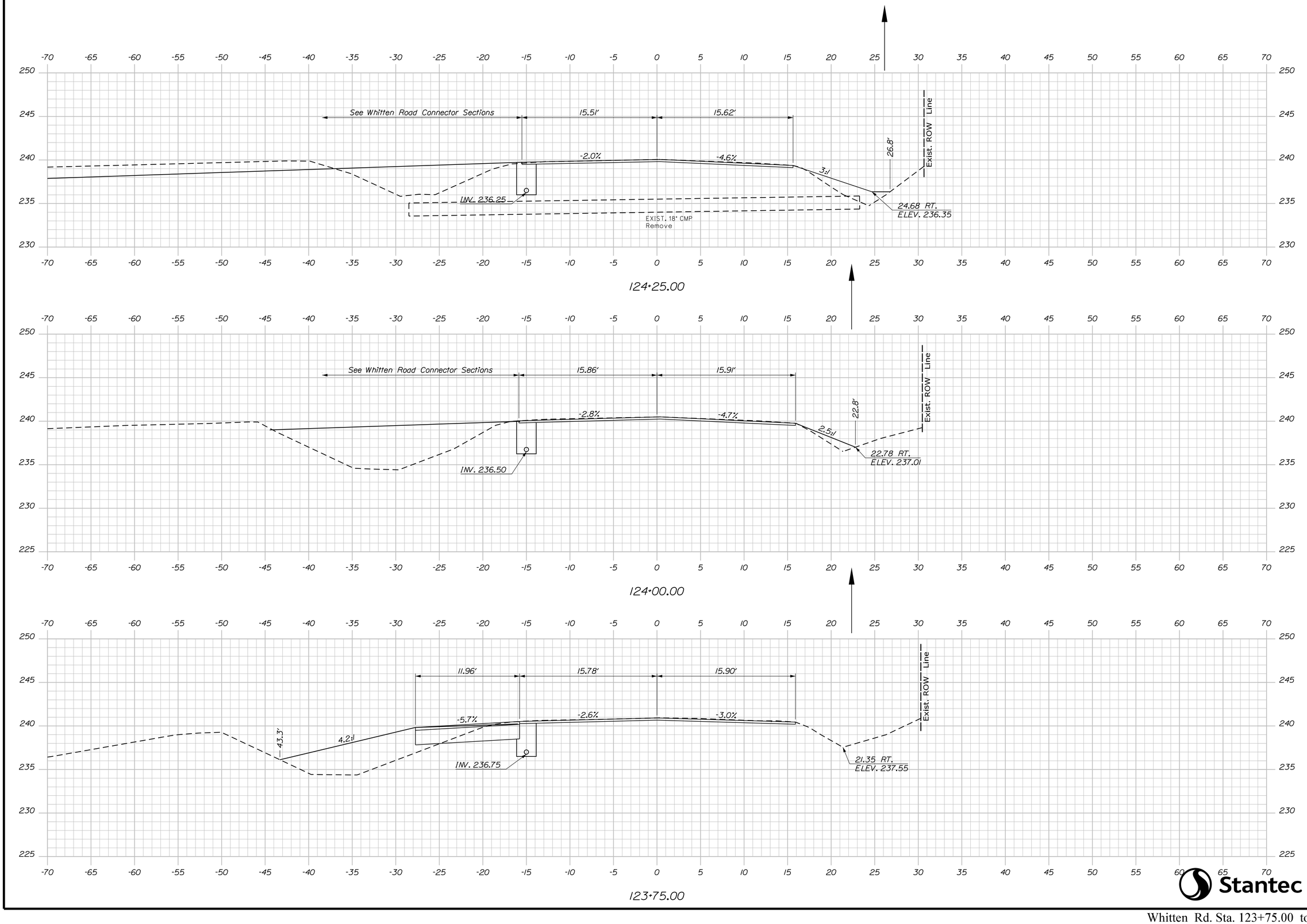
SHEET NUMBER

152

OF 190

Whitten Rd. Sta. 123+00.00 to Sta. 123+50.00

Filename: ..._MOT_whittenrd_connector_sections.dgn Division: BRIDGE Username: kwight Date:7/18/2023



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00

BRIDGE NO. 5808

BRIDGE PLANS

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	PLP/KBJ	PLP/KBJ	JUNE 2023
CHECKED-REVIEWED	LEM	LEM	JUNE 2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

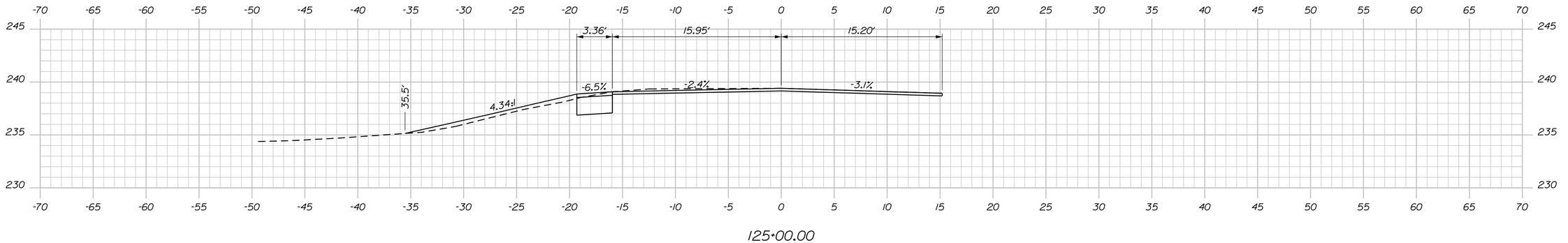
MAINTENANCE OF TRAFFIC WHITTEN RD SECTIONS

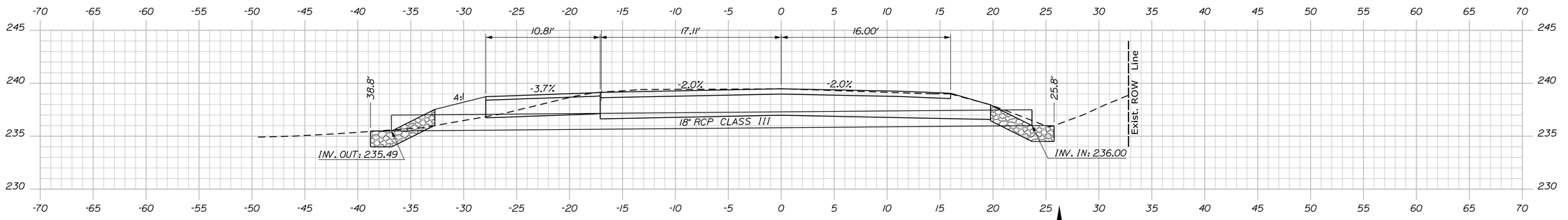
SHEET NUMBER
153
OF 190

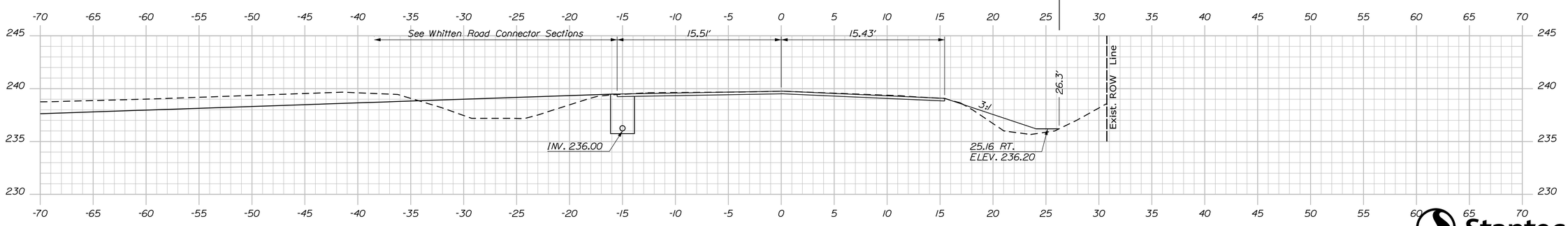
Stantec

Whitten Rd. Sta. 123+75.00 to Sta. 124+25.00

Filename: ..._MOT_whittenrd_connector_sections.dgn Division: BRIDGE Date:7/18/2023 Username: kwight







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00

BRIDGE NO. 5808 BRIDGE PLANS

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	PLP/KBJ	PLP/KBJ	JUNE 2023
CHECKED-REVIEWED	LEM	LEM	JUNE 2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

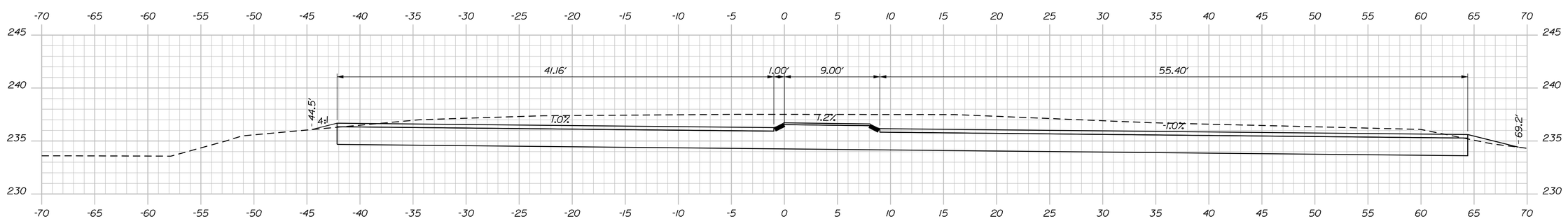
MAINTENANCE OF TRAFFIC WHITTEN RD SECTIONS

SHEET NUMBER
154
OF 190

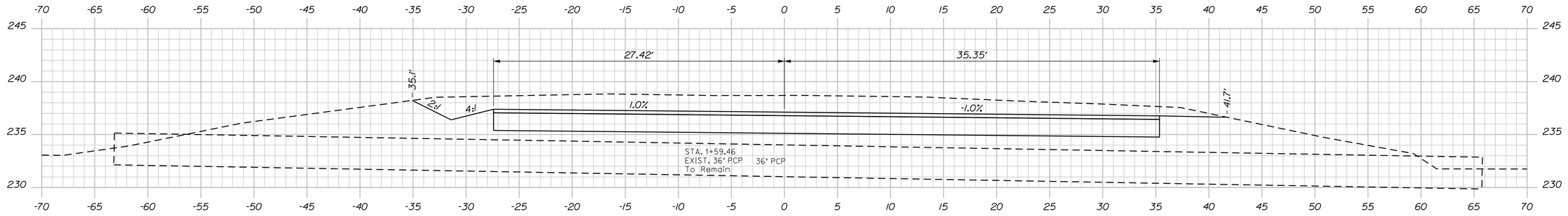
Stantec

Whitten Rd. Sta. 124+50.00 to Sta. 125+00.00

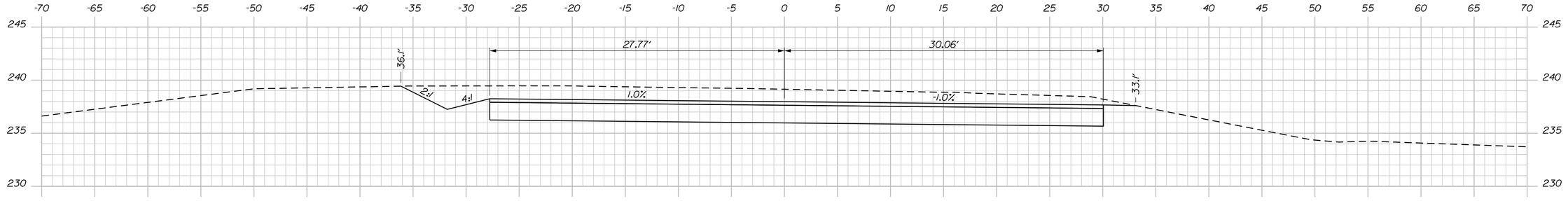
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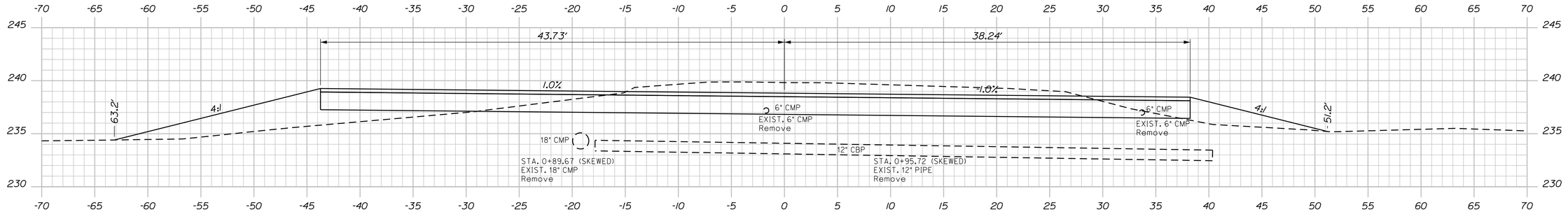
1+75.00



1+50.00



1+25.00



1+00.00

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00

BRIDGE NO. 5808

BRIDGE PLANS

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	PLP/KBJ	BY	JUNE 2023
CHECKED-REVIEWED	LEM		JUNE 2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

MAINTENANCE OF TRAFFIC CONNECTOR SECTIONS

SHEET NUMBER

155

OF 190

Whitten Rd. Connector Sta. 1+00.00 To Sta. 1+75.00

Filename: ..._MOT_whittenrd_connector_sections.dgn Division: BRIDGE Date:7/18/2023 Username: kwight

NOTES

1. A Portable Changeable Message Sign (PCMS) shall be setup approximately 1 mile before the ramp to be closed. See PCMS location sheet.

2. Guide Signs for Exit 109B to be covered for duration of ramp closure.

ROAD WORK AHEAD W20-1
ON RAMP W13-4p
EXIT CLOSED AHEAD CS-1
EXIT CLOSED E5-2a
500'
500'
NO STOPPING ON PAVEMENT CS-11
DRUMS @ 40' SPACING
EXIT CLOSED
DETOUR AHEAD
END DETOUR
INTERSTATE 95 SOUTH DETOUR
INTERSTATE 95 NORTH DETOUR
INTERSTATE 95 SOUTH DETOUR
INTERSTATE 95 SOUTH DETOUR
INTERSTATE 95 NORTH TRUCK DETOUR
INTERSTATE 95 NORTH TRUCK DETOUR
NEW TRAFFIC PATTERN AHEAD
END DETOUR
Old Winthrop Road
Old Winthrop Road
Western Avenue
Temporary bridge work zone
Ramp work zone
Temporary intersection improvements work zone
Temporary Connector Road (See Whitten Rd Connector Plans)
Macomber Avenue
Pine Brook Drive
Ward Street
Edison Drive
Turnpike Mall
Whitten Road
Hannaford
Alderwood Drive
I-95 NB
I-95 SB
EXIT 109A SB (RAMP F)
Senator Way
Crossing Way
Fuller Road
Target
Lowe's Home Improvement
SITE 1
SITE 2
SITE 3
200 0 200 400
Scale of Feet

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

PROJ. MANAGER	D. EATON	BY	DATE
DESIGN-DETAILED	PLP/KBJ	PLP/KBJ	JUNE 2023
CHECKED-REVIEWED	LEM	LEM	JUNE 2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

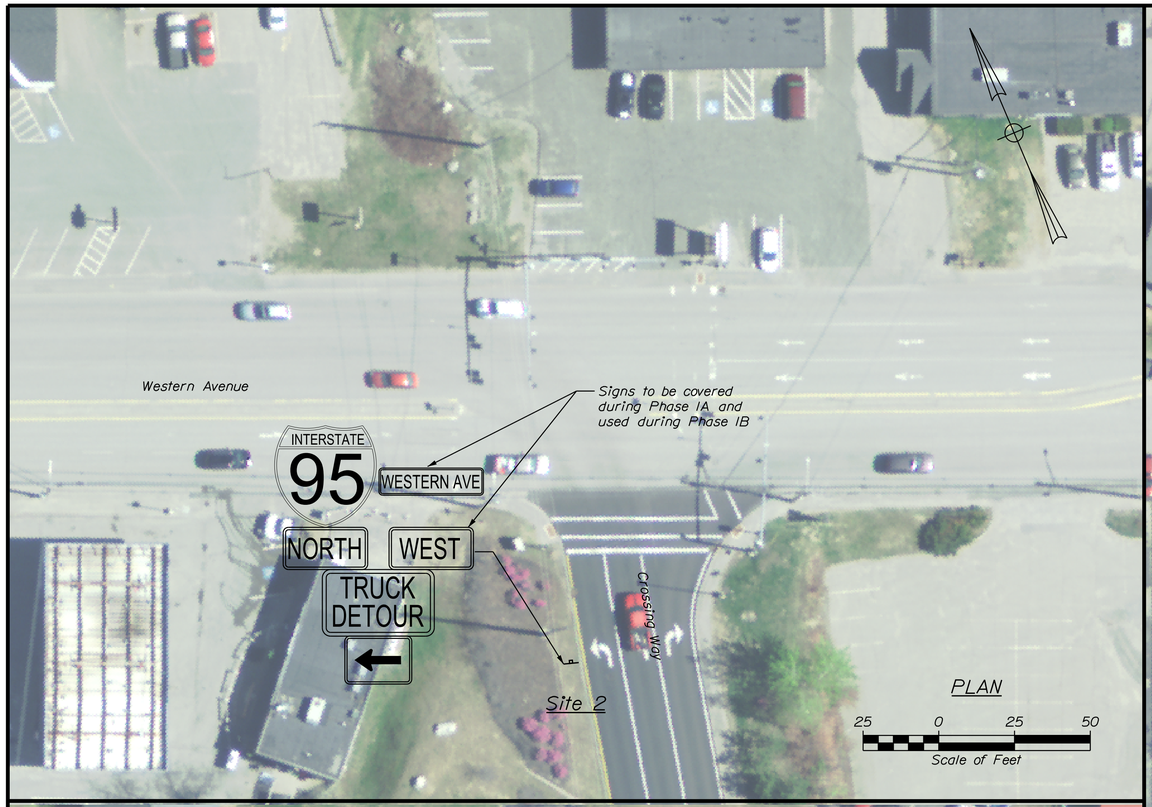
WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

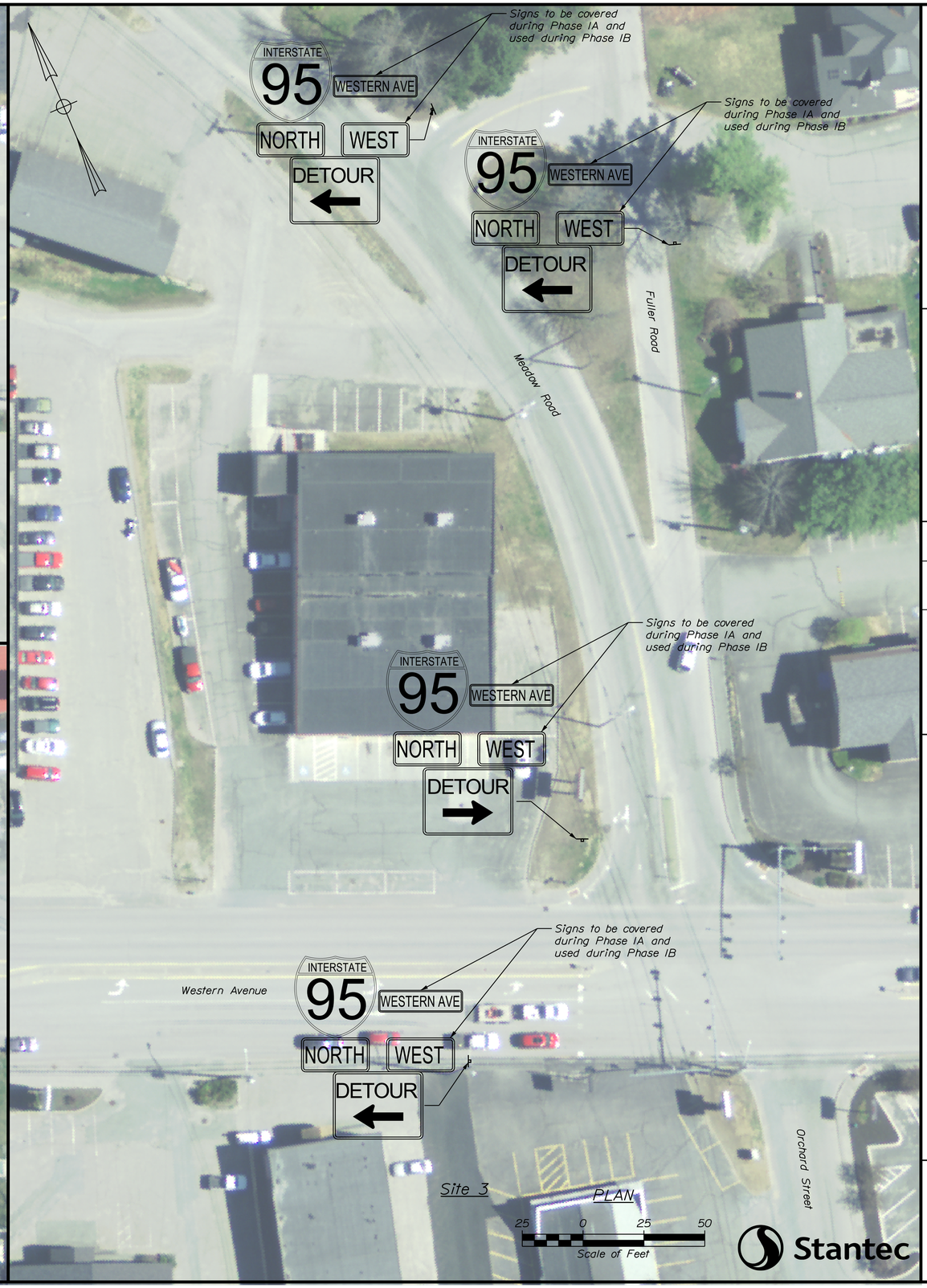
ROADWAY DETOUR
MOT PHASE 1A

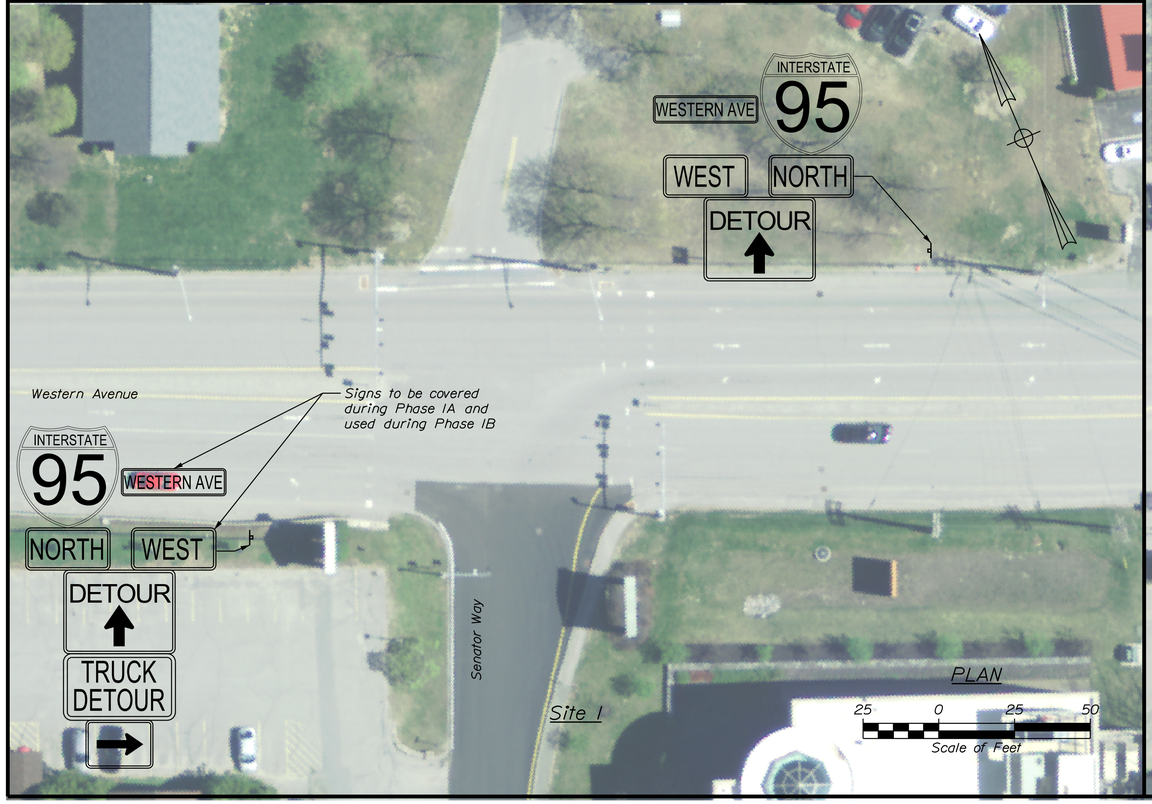
SHEET NUMBER
156
OF 190

Filename: ..._MOT_Detour_Overview_phase1a.dgn Division: BRIDGE Username: kwright Date:7/18/2023

Filename: ..._MOT_Detour_Overview_phase1a_2.dgn Division: BRIDGE Username: kwright Date:7/18/2023







STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

	BY	DATE
PROJ. MANAGER	D. EATON	
DESIGN-DETAILED	PLP/KBJ	JUNE 2023
CHECKED-REVIEWED	LEM	JUNE 2023
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

ROADWAY DETOUR
MOT PHASE 1A & 1B

SHEET NUMBER
157
OF 190

Stantec

Filename: ...\MSTA_MOT_stage1_Plan_01.dgn Division: BRIDGE Username: kwight Date:7/18/2023

NOTES

1. Portable Concrete Barrier, Type I and Drums are shown for intent. Contractor shall propose location of barrier and drums with submitted Traffic Control Plan.

2. See Roadway Detour Plans for detour signs.

END ROAD WORK
G20-2

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-II

71+92 71+00 70+00 69+00 N60°24'38.32"W 68+00 67+00 66+00

WESTERN AVENUE

ROAD WORK AHEAD
W20-1

IPF

SIDEWALK CLOSED
R9-9

66+00 65+00 64+00 63+00 62+00 61+00 60+00

WESTERN AVENUE

Portable Concrete Barrier, Type I

201+00

N19°45'48.85"E 109.8' EXIT 109B RAMP SB OFF

100.00'

SIDEWALK CLOSED
R9-9

SHOULDER WORK
W21-5

PLAN

25 0 25 50
Scale of Feet

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00

BRIDGE NO. 5808

BRIDGE PLANS

P.E. NUMBER

DATE

SIGNATURE

	BY	DATE
D. EATON	PLP/KBJ	JUNE 2023
PROJ. MANAGER	PLP/KBJ	JUNE 2023
DESIGN-DETAILED	LEM	
CHECKED-REVIEWED	LEM	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

MAINTENANCE OF TRAFFIC
PHASE 1A PLAN (1 OF 5)

SHEET NUMBER
158
OF 190

Filename: ...\MSTA_MOT_stage1_Plan_02.dgn Username: kwight Division: BRIDGE Date:7/18/2023

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

	BY	DATE
D. EATON		
PROJ. MANAGER	PLP/KBJ	JUNE 2023
DESIGN-DETAILED	PLP/KBJ	JUNE 2023
CHECKED-REVIEWED	LEM	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

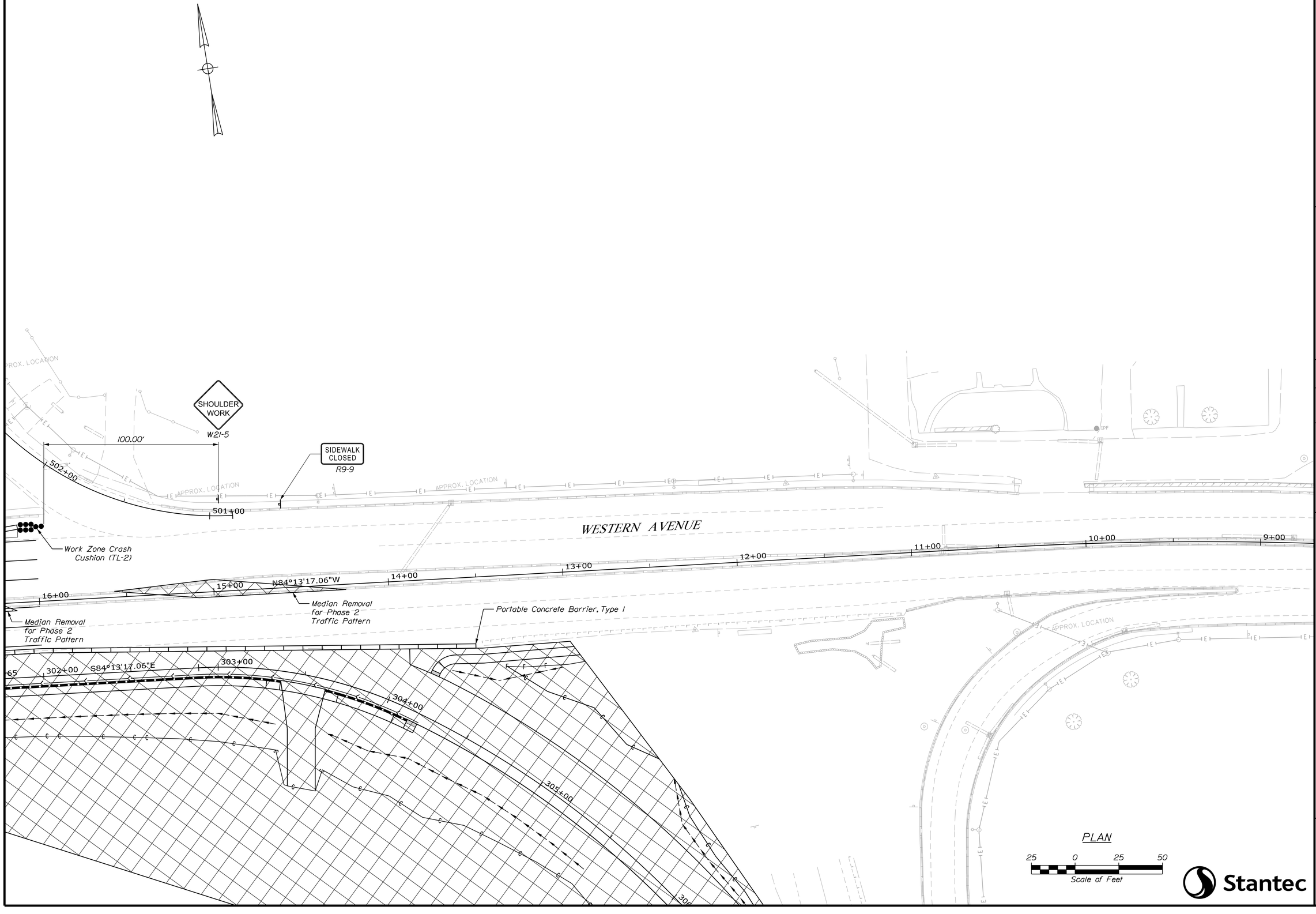
MAINTENANCE OF TRAFFIC
PHASE 1A PLAN (2 OF 5)

SHEET NUMBER
159
OF 190

PLAN
25 0 25 50
Scale of Feet

Stantec

Filename: ...\MSTA_MOT_stage1_Plan_03.dgn Username: kwight Division: BRIDGE Date:7/18/2023



Stantec

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	PLP/KBJ	JUNE 2023	
CHECKED-REVIEWED	LEM	JUNE 2023	
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES	BY	DATE	

SIGNATURE

P.E. NUMBER

DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 5808

WIN
21672.00

BRIDGE PLANS

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

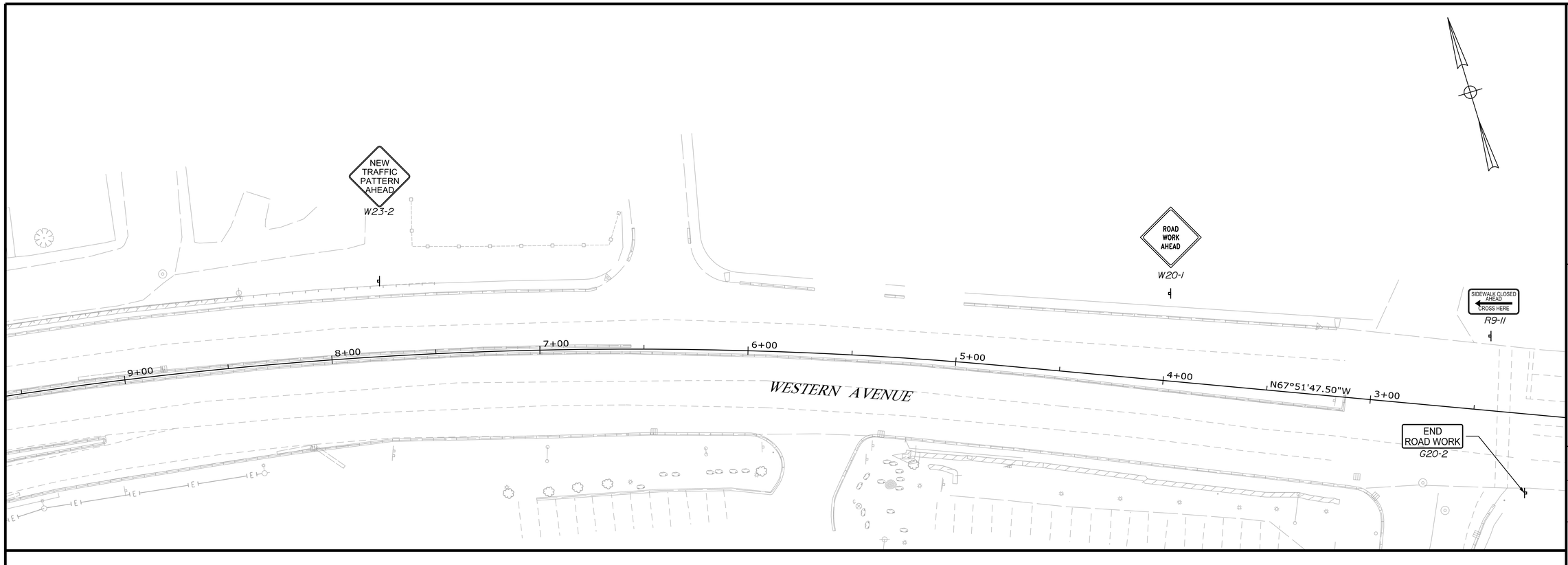
MAINTENANCE OF TRAFFIC PHASE 1A PLAN (3 OF 5)

SHEET NUMBER

160

OF 190

Filename: ...\MSTA_MOT_stage1_Plan_04.dgn Division: BRIDGE Username: kwight Date:7/18/2023



PLAN

25 0 25 50

Scale of Feet

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 5808

WIN 21672.00

BRIDGE PLANS

	BY	DATE
DESIGNED	D. EATON	
DESIGN-DETAILED	PLP/KBJ	JUNE 2023
CHECKED-REVIEWED	PLP/KBJ	JUNE 2023
DESIGN2-DETAILED2	LEM	
DESIGN3-DETAILED3	LEM	
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		
PROJ. MANAGER		

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

MAINTENANCE OF TRAFFIC PHASE 1A PLAN (4 OF 5)

SHEET NUMBER

161

OF 190

Filename: ...\MSTA_MOT_stage1_Plan_05.dgn Division: BRIDGE Username: kwight Date:7/18/2023

RAMP CLOSED
R11-2
(On Type III Barricade)

DETOUR LOCATION

21+00

Median Removal for Phase 2 Traffic Pattern

22+00

100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00

S6°56'39.96"W

WHITTEN ROAD

Widened Pavement and Temporary Curb Modification for Phase 2 Traffic Pattern

SIDEWALK CLOSED
R9-9

END ROAD WORK
G20-2

ROAD WORK AHEAD
W20-1

6+00 107+00 108+00 109+00 110+00 111+00 112+00 113+00

S13°53'08.74"W

WHITTEN ROAD

END ROAD WORK
G20-2

PLAN

25 0 25 50
Scale of Feet

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

	BY	DATE
D. EATON	PLP/KBJ	JUNE 2023
PLP/KBJ	LEM	JUNE 2023
LEM		

SIGNATURE

P.E. NUMBER

DATE

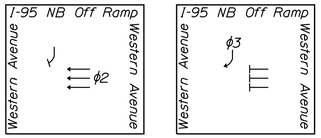
PROJ. MANAGER	
DESIGN-DETAILED	PLP/KBJ
CHECKED-REVIEWED	LEM
DESIGN2-DETAILED2	
DESIGN3-DETAILED3	
REVISIONS 1	
REVISIONS 2	
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REVISIONS 4	
FIELD CHANGES	

WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

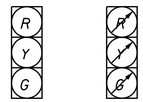
MAINTENANCE OF TRAFFIC PHASE 1A PLAN (5 OF 5)

SHEET NUMBER
162
OF 190

SIGNAL PHASING SEQUENCE



PROPOSED INDICATIONS



A1, A2, A3, B3 B1, B2

LEGEND

- Cabinet with Signal Equipment
- Mast Arm and Pole
- Vehicular Signal Head
- Pedestrian Pole
- Pedestrian Signal Head
- Pedestrian Push Button
- Sign
- Queue Detection Camera
- Vehicle Detection Camera
- Emergency Preemption Receiver
- Preemption Confirmation Strobe
- Ethernet Radio and Antenna
- Junction Box
- Signal Conduit
- Video Detection Zone
- Light Standard
- 12-Strand Signel Mode Fiber Optic Cable
- 30-Inch Manhole with Fiber Optic Splice Enclosure

RESET EXISTING SIGNS



3- Proposed R3-5a 30"x36"



1- Proposed R3-5R 30"x36"



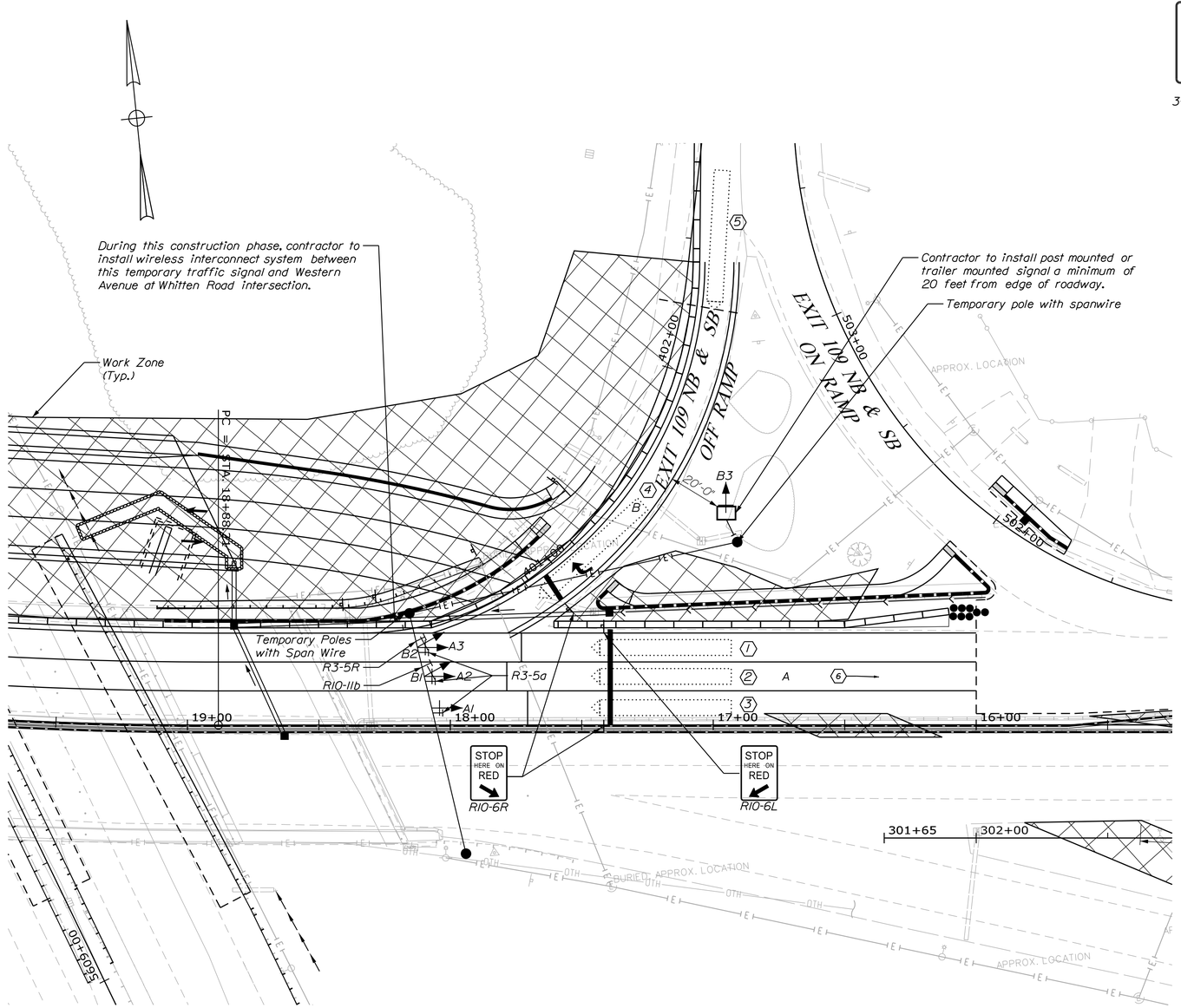
1- Proposed R10-11b 36"x36"



2- Proposed R10-6R 24"x36"



1- Proposed R10-6L 24"x36"



NOTES

1. See Signal General Notes Sheet for signal notes.

2. Proposed and Reseting of Existing signs for Temporary Signal will be incidental to Item 643.72 Temporary Traffic Signal: Whitten Rd & Hannaford Dr.

SIGNAL TIMING SCHEDULE

Item/Phase	ϕ1	ϕ2	ϕ3	ϕ4	ϕ5	ϕ6	ϕ7	ϕ8
Movement	-	Western Ave WB Through	Exit 109 Off-Ramp	-	-	-	-	-
Minimum Initial	-	10.0	10.0	-	-	-	-	-
Passage Time	-	3.0	3.0	-	-	-	-	-
Maximum I	-	25.0	25.0	-	-	-	-	-
Maximum II	-	45.0	35.0	-	-	-	-	-
Yellow	-	3.5	3.0	-	-	-	-	-
All Red	-	1.5	2.0	-	-	-	-	-
PED Walk	-	-	-	-	-	-	-	-
PED Clear	-	-	-	-	-	-	-	-
DYN Max Limit	-	-	-	-	-	-	-	-
DYN Max Step	-	-	-	-	-	-	-	-
Recall	-	SOFT	NONE	-	-	-	-	-
Detector	-	PR	PR	-	-	-	-	-
Preemption priority	-	3	4	-	-	-	-	-
Flash	-	Y	R	-	-	-	-	-
Dual Entry		ON	OFF					

PLAN

25 0 25 50

Scale of Feet

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 5808 WIN 21672.00 BRIDGE PLANS

	D. EATON		
PROJ. MANAGER			
DESIGN-DETAILED	EGD	KBJ	JUNE 2023
CHECKED-REVIEWED	EGD	LEM	JUNE 2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

MAINTENANCE OF TRAFFIC PHASE 1A SIGNAL PLAN

SHEET NUMBER

163

OF 190

Filename: ..._MOT_Stage1_TempSignal.dgn Division: BRIDGE Username: kwight Date:7/18/2023

NOTES

1. See Roadway Detour MOT Phase IA & IB, Sheet 157, for details of the sites.

ROAD WORK AHEAD W20-1
ON RAMP W13-4p
EXIT CLOSED AHEAD CS-1
EXIT CLOSED E5-2a
200'
200'
NO STOPPING ON PAVEMENT CS-11
DRUMS @ 40' SPACING
EXIT CLOSED
Old Winthrop Road
Western Avenue
Temporary Bridge Work Zone
DETOUR AHEAD
INTERSTATE 95 SOUTH DETOUR
INTERSTATE 95 NORTH DETOUR
INTERSTATE 95 SOUTH DETOUR
Ramp Work Zone
I-95 SB
I-95 NB
Temporary Intersection Improvements Work Zone
DETOUR
EXIT CLOSED
END DETOUR
Old Winthrop Road
Maccomber Avenue
Pine Brook Drive
Ward Street
SITE 3
SITE 2
SITE 1
Fuller Road
WESTERN AVE WEST DETOUR
INTERSTATE 95 WESTERN AVE NORTH TRUCK DETOUR
Senator Way
INTERSTATE 95 WESTERN AVE NORTH WEST TRUCK DETOUR
DETOUR AHEAD
Crossing Way
Target
Lowe's Home Improvement
END DETOUR
INTERSTATE 95 SOUTH DETOUR
Edison Drive
Turnpike Mall
Hannaford
Alderwood Drive
NEW TRAFFIC PATTERN AHEAD
EXIT 109A SB (RAMP F)
Temporary Connector Road (See Whitten Rd Connector Plans)
INTERSTATE 95 SOUTH DETOUR
200 0 200 400
Scale of Feet
Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

PROJ. MANAGER	D. EATON	BY	DATE
DESIGN-DETAILED	PLP/KBJ	PLP/KBJ	JUNE 2023
CHECKED-REVIEWED	LEM	LEM	JUNE 2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

ROADWAY DETOUR MOT PHASE 1B

SHEET NUMBER
164
OF 190

Filename: ..._MOT_Detour_Overview_phase1b.dgn Division: BRIDGE Username: kwight Date:7/18/2023

Filename: ...\MSTA_MOT_stage2_Plan_01.dgn Division: BRIDGE Username: kwight Date:7/18/2023

NOTES

1. Portable Concrete Barrier, Type I and Drums are shown for intent. Contractor shall propose location of barrier and drums with submitted Traffic Control Plan.

2. See Roadway Detour Plans for detour signs for I-95 Southbound detour.

END ROAD WORK
G20-2

71+92 71+00 70+00 69+00 N60°24'38.32"W 68+00 67+00 66+00

WESTERN AVENUE

100.00' 100.00'

ROAD WORK AHEAD
W20-1

RIGHT LANE CLOSED AHEAD
W20-5R

NEW TRAFFIC PATTERN AHEAD
W23-2

WHITTEN ROAD
RIGHT LANE
CS-7

NORTH SOUTH 95 EAST 202
LEFT LANE
CS-12

Existing Stop Sign (To Remain)

Temporary 24" Stop Line

201+00

N16°45'48"E

3001+00

3000+00

60+00

20+00

66+00 65+00 64+00 63+00 62+00 61+00

WESTERN AVENUE

DRUMS @ 25' O.C.

Temporary Curb Line (Constructed in Phase I)

Temporary Detectable Warning Field (Paid for under Item 608.26)

Temporary Pedestrian Barricade- ADA Compliant

Temporary Ramp (See Notes)

WI-4L

NORTH SOUTH 95 EAST 202
LEFT LANE
CS-12

RIGHT LANE MUST TURN RIGHT
R3-7R

ROAD CLOSED
RII-2 (On Type III Barricades)

Contractor to Maintain Access to All Driveways and Business Enterances

NOTES

1. Contractor shall provide temporary pedestrian ramp down to roadway. Ramp shall be incidental to Maintenance of Traffic Items.

PLAN

25 0 25 50
Scale of Feet

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00

BRIDGE NO. 5808

BRIDGE PLANS

P.E. NUMBER

DATE

SIGNATURE

	BY	DATE
D. EATON		
PROJ. MANAGER	PLP/KBJ	JUNE 2023
DESIGN-DETAILED	PLP/KBJ	JUNE 2023
CHECKED-REVIEWED	LEM	
DESIGN2-DETAILED2	LEM	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

MAINTENANCE OF TRAFFIC
PHASE 2 PLAN (1 OF 5)

SHEET NUMBER
165
OF 190

Filename: ...\MSTA_MOT_stage2_Plan_02.dgn Division: BRIDGE Username: kwight Date:7/18/2023

ROAD WORK AHEAD
W20-1

EXIT 109B SB OFF RAMP

MAINE INTERSTATE 95 SOUTHBOUND

MAINE INTERSTATE 95 NORTHBOUND

BRIDGE CLOSED
R11-2
M6-1L

W1-4B

W1-4R

Pedestrian Route

Temporary Traffic Signal Pole & Span Wire (Typ.)
See Phase 2 Traffic Signal Sheets for more Information

Existing Stop Sign (To Remain)

Temporary 24" Stop Line

Temporary Modular Delineator Curb

Free Flow Ramp Entrance

W11-2
W16-7P

TRAFFIC FROM RIGHT DOES NOT STOP
W4-4aRP

EXIT 109 NB & SB OFF RAMP

EXIT 109 NB & SB ON RAMP

ROAD WORK AHEAD
W20-1

RAMP NARROWS
W5-4

NEW TRAFFIC PATTERN AHEAD
W23-2

100'

WHITTEN RD
DETOUR

END ROAD WORK
G20-2

BRIDGE CLOSED
R11-2
M6-1R

Temporary Curb Line (Constructed in Phase 1)

Work Zone (Typ.)

Portable Concrete Barrier, Type 1

Work Zone Crash Cushion (TL-3)

Temporary Stop Bar (Typ.)

Adjust Gas Gate Valve to Grade (By Others)

Temporary Curb Line (Constructed in Phase 1)

Fiber Optic Manhole to Intercept Existing Signal Interconnect Fiber from Junction Box on East wingwall of Bridge to Junction Box at Sta. 5+85, Lt.; Contractor shall intercept conduit to provide 25' min. of slack in Fiber.

EAST 202
M3-2
M1-4 (202)
M6-2L

NORTH SOUTH INTERSTATE 95
M3-1
M3-3
M1-4 (95)
M6-2R

PLAN
25 0 25 50
Scale of Feet

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

	BY	DATE
D. EATON		
PROJ. MANAGER	PLP/KBJ	JUNE 2023
DESIGN-DETAILED	PLP/KBJ	JUNE 2023
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DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

MAINTENANCE OF TRAFFIC PHASE 2 PLAN (2 OF 5)

SHEET NUMBER
166
OF 190

Filename: ...\MSTA_MOT_stage2_Plan_03.dgn Division: BRIDGE Username: kwight Date:7/18/2023

WI-4R

Pedestrian Route

DETOUR
WHITTEN RD
M4-9
CS-10

RIGHT LANE
MUST
TURN RIGHT
R3-7R

Drums @ 25' Spacing

Drums @ 25' Spacing

WESTERN AVENUE

EXIT 109 NB & SB
ON RAMP

END
ROAD WORK
G20-2

ONLY

APPROX. LOCATION

N84°13'17.06"W

S84°13'17.06"E

502+00
501+00
3007+30
16+00
15+00
14+00
13+00
12+00
11+00
10+00
9+00
303+00
304+00
305+00
306+00

PLAN

25 0 25 50
Scale of Feet

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 5808 WIN 21672.00 BRIDGE PLANS

	BY	DATE
D. EATON		
PROJ. MANAGER	PLP/KBJ	JUNE 2023
DESIGN-DETAILED	PLP/KBJ	JUNE 2023
CHECKED-REVIEWED	LEM	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

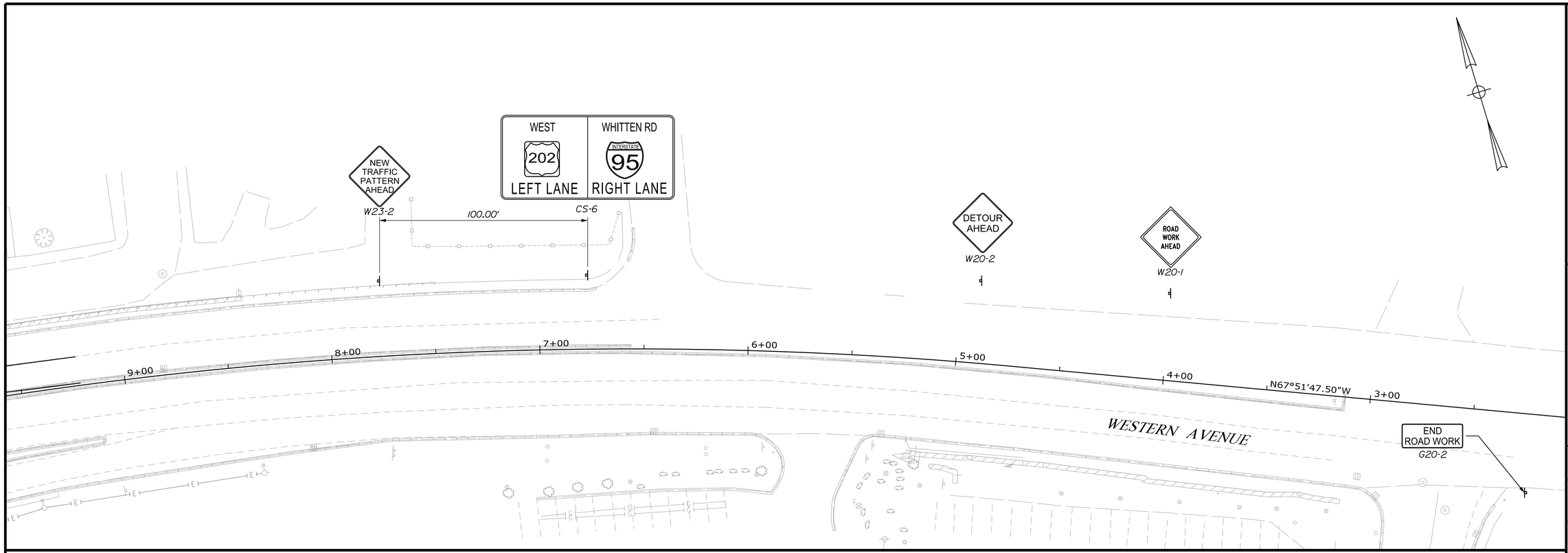
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WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

MAINTENANCE OF TRAFFIC PHASE 2 PLAN (3 OF 5)

SHEET NUMBER
167
OF 190

Filename: ...\MSTA_MOT_stage2_Plan_04.dgn Division: BRIDGE Username: kwight Date:7/18/2023



PLAN

25 0 25 50

Scale of Feet

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00

BRIDGE NO. 5808

BRIDGE PLANS

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	PLP/KBJ	JUNE 2023	SIGNATURE
CHECKED-REVIEWED	LEM	JUNE 2023	
DESIGN2-DETAILED2			P.E. NUMBER
DESIGN3-DETAILED3			
REVISIONS 1			DATE
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

MAINTENANCE OF TRAFFIC PHASE 2 PLAN (4 OF 5)

SHEET NUMBER

168

OF 190

Filename: ...\MSTA_MOT_stage2_Plan_05.dgn Username: kwight Division: BRIDGE Date:7/18/2023

Portable Concrete Barrier, Type I

Work Zone Crash Cushion (TL-2)

Work Zone (Typ.)

ROAD CLOSED

DETOUR

R11-2
M4-9L
(On Type III Barricades)

LEFT LANE MUST TURN RIGHT
R3-7L

RIGHT LANE MUST TURN RIGHT
R3-7R

100'

W1-4B

100'

NEW TRAFFIC PATTERN AHEAD
W23-2

21+00

22+00

100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00

S6°56'39.96"W

WHITTEN ROAD

Temporary Stop Bar (Typ.)

Adjust Gas Gate Valve to Grade (By Others)

Temporary Curb Line (Constructed in Phase 1)

END ROAD WORK
G20-2

ROAD WORK AHEAD
W20-1

WHITTEN ROAD

106+00 107+00 108+00 109+00 110+00 111+00 112+00 113+00

S13°53'08.74"W

WHITTEN ROAD

END ROAD WORK
G20-2

PLAN

25 0 25 50
Scale of Feet

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00

BRIDGE NO. 5808

BRIDGE PLANS

	D. EATON	BY	DATE
PROJ. MANAGER			
DESIGN-DETAILED	P.K.B.J.	P.L.P./K.B.J.	JUNE 2023
CHECKED-REVIEWED	L.E.M.	L.E.M.	JUNE 2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

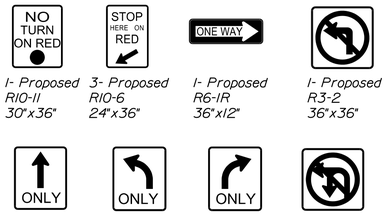
DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

MAINTENANCE OF TRAFFIC
PHASE 2 PLAN (5 OF 5)

SHEET NUMBER
169
OF 190

RESET EXISTING SIGNS



1- Proposed R10-11 30"x36"

3- Proposed R10-6 24"x36"

1- Proposed R6-1R 36"x12"

1- Proposed R3-2 36"x36"

2- Proposed R3-5R 36"x36" Mount under existing R1-1 sign

3- Proposed R3-5a 36"x36"

1- Proposed R3-5L 36"x36"

2- Proposed R3-5R 36"x36"

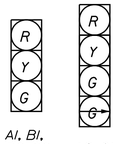
1- Proposed R3-18 36"x36"

EXISTING SIGNS



2- Retained R1-1 36"x36" Reset on New Poles

PROPOSED INDICATIONS



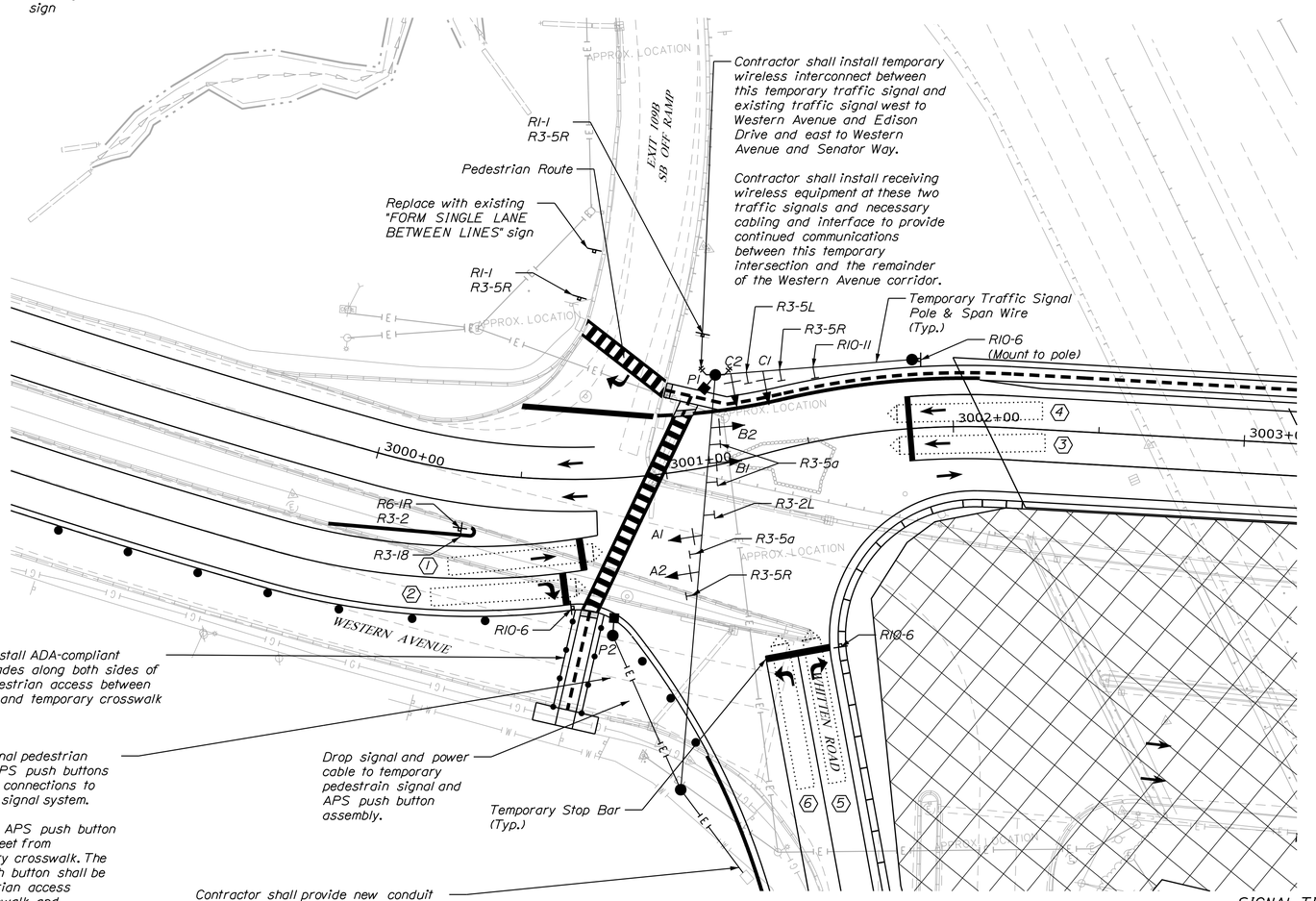
A1, B1, B2, C2 — A2, C1

Contractor is expected to reuse existing signal heads and indications for the temporary traffic signal at this location.

NOTES

1. See Signal General Notes Sheet for signal notes.

2. Proposed and Resetting of Existing Signs for the Temporary signal will be incidental to Item 643.71 Temporary Traffic Signal: Whitten Rd & Western Ave.

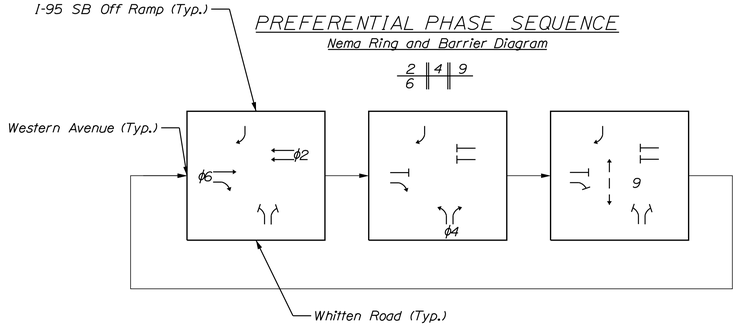


LEGEND

- Cabinet with Signal Equipment
- Mast Arm and Pole
- Vehicular Signal Head
- Pedestrian Pole
- Pedestrian Signal Head
- Pedestrian Push Button
- Sign
- Queue Detection Camera
- Vehicle Detection Camera
- Emergency Preemption Receiver
- Preemption Confirmation Strobe
- Ethernet Radio and Antenna
- Junction Box
- Signal Conduit
- Video Detection Zone
- Light Standard
- 12-Strand Signel Mode Fiber Optic Cable
- 30-Inch Manhole with Fiber Optic Splice Enclosure

PREFERENTIAL PHASE SEQUENCE

Nema Ring and Barrier Diagram



SIGNAL TIMING SCHEDULE

Item/Phase	ϕ1	ϕ2	ϕ3	ϕ4	ϕ5	ϕ6	ϕ7	ϕ8
Movement	-	Western Ave WB Through	-	Whitten Ave NB	-	Western Ave EB through	-	-
Minimum Initial	-	10.0	-	5.0	-	10.0	-	-
Passage Time	-	3.5	-	2.5	-	3.5	-	-
Maximum I	-	80.0	-	25.0	-	80.0	-	-
Maximum II	-	95.0	-	30.0	-	95.0	-	-
Yellow	-	3.5	-	3.5	-	3.5	-	-
All Red	-	1.5	-	1.5	-	1.5	-	-
LPI	-	-	-	5.0	-	-	-	-
PED Walk	-	-	-	7.0	-	-	-	-
PED Clear	-	-	-	13.0	-	-	-	-
DYN Max Limit	-	-	-	-	-	-	-	-
DYN Max Step	-	-	-	-	-	-	-	-
Recall	-	SOFT	-	OFF	-	OFF	-	-
Detector	-	PR	-	PR	-	PR	-	-
Preemption priority	-	4	-	5	-	3	-	-
Flash	-	Y	-	R	-	Y	-	-
Dual Entry	-	ON	-	OFF	-	ON	-	-

PLAN

25 0 25 50

Scale of Feet

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS

WIN 21672.00

BRIDGE NO. 5808

	D. EATON	DATE
DESIGN-DETAILED	EGD	KBJ JUNE 2023
CHECKED-REVIEWED	EGD	LEM JUNE 2023
DESIGN2-DETAILED2	EGD	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

PROJ. MANAGER

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

MAINTENANCE OF TRAFFIC PHASE 2 SIGNAL PLAN

SHEET NUMBER

170

OF 190

Date:7/18/2023

Username: kwright

Division: BRIDGE

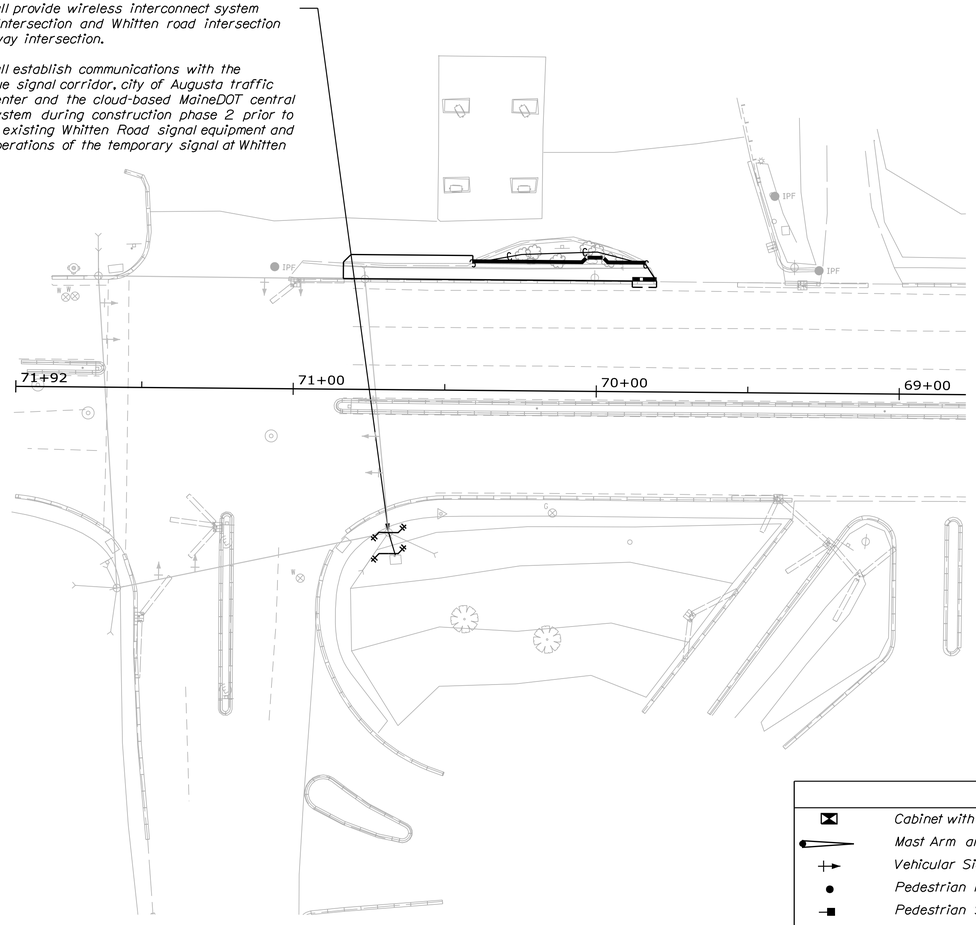
Filename: ..._MOT_Stage2_TempSignal.dgn

Filename: ..._MOT_Stage2_Tempsignal2.dgn Division: BRIDGE Username: kwight Date:7/18/2023

Western Avenue & Edison Drive

Contractor shall provide wireless interconnect system between this intersection and Whitten road intersection and Senator way intersection.

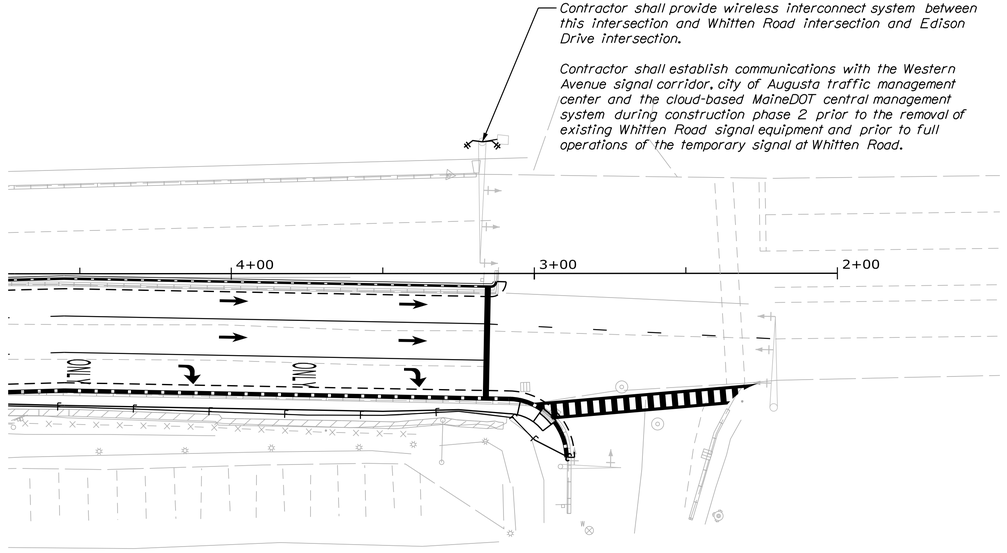
Contractor shall establish communications with the Western Avenue signal corridor, city of Augusta traffic management center and the cloud-based MaineDOT central management system during construction phase 2 prior to the removal of existing Whitten Road signal equipment and prior to full operations of the temporary signal at Whitten Road.



Western Avenue & Senator Way

Contractor shall provide wireless interconnect system between this intersection and Whitten Road intersection and Edison Drive intersection.

Contractor shall establish communications with the Western Avenue signal corridor, city of Augusta traffic management center and the cloud-based MaineDOT central management system during construction phase 2 prior to the removal of existing Whitten Road signal equipment and prior to full operations of the temporary signal at Whitten Road.



LEGEND

- Cabinet with Signal Equipment
- Mast Arm and Pole
- Vehicular Signal Head
- Pedestrian Pole
- Pedestrian Signal Head
- Pedestrian Push Button
- Sign
- Queue Detection Camera
- Vehicle Detection Camera
- Emergency Preemption Receiver
- Preemption Confirmation Strobe
- Ethernet Radio and Antenna
- Junction Box
- E — Signal Conduit
- Video Detection Zone
- Light Standard
- OTH — 12-Strand Signel Mode Fiber Optic Cable
- SE — 30-Inch Manhole with Fiber Optic Splice Enclosure

TEMPORARY TRAFFIC SIGNAL INTERCONNECT NOTES

1. *The contractor shall install wireless communications equipment to establish point to point interconnect of the following:*

During phase 1:

Wireless interconnect between temporary traffic signal at western avenue and exit 109 NB to WB ramp and existing traffic signal at western avenue and whitten road.

During phase 2:

Wireless interconnect between temporary traffic signal at western avenue and whitten road and existing traffic signal at western avenue and edison drive.
Wireless interconnect between temporary traffic signal at western avenue and whitten road and existing traffic signal at western avenue and senator way.
Wireless interconnect between temporary traffic signal at western avenue and edison drive and western avenue and senator way, if possible.
The intent of these wireless interconnects during construction are to retain Western Avenue's coordination and adaptive signal control operations for the corridor. The intent is also to retain communications to MaineDOTs cloud-based central management system.

2. *The contractor shall utilize wireless communications equipment to sustain the minimum capability requirement of communication with the central management system at a rate of once-per-second.*

PLAN

25 0 25 50

Scale of Feet

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00

BRIDGE NO. 5808 BRIDGE PLANS

	BY	DATE
D. EATON	KBJ	JUNE 2023
PROJ. MANAGER	LEM	JUNE 2023
DESIGN-DETAILED		
CHECKED-REVIEWED		
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

P.E. NUMBER

SIGNATURE

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

MAINTENANCE OF TRAFFIC PHASE 2 SIGNAL COMM. PLAN

SHEET NUMBER

171

OF 190

NOTES

1. MOT Layout to be used for single overnight SB I-95 closures. Contractor shall cover conflicting existing signs during detour. Contractor shall also cover detour signs when detour is not in use. See Special Provisions 107 for more information on time restrictions.

2. Plans do not show additional signs and channelization devices for SB I-95. Contractor shall develop this as part of the Traffic Control Plan submission.

3. See Maintenance of Traffic Plans for additional Whitten Road detour signage.

Old Winthrop Road
ROAD CLOSED
DETOUR
Old Winthrop Road
Macomber Avenue
Pine Brook Drive
Ward Street
Temporary Bridge See Phase 2 MOT plans
Bridge Work Zone See Phase 2 MOT plan
INTERSTATE 95 SOUTH DETOUR
Western Avenue
Edison Drive
Turnpike Mall
I-95 NB
I-95 SB
WHITTEN RD DETOUR
KEEP LEFT
Fuller Road
Senator Way
Hannaford
NEW TRAFFIC PATTERN AHEAD
Exit 109A SB (RAMP F)
Alderwood Drive
Crossing Way
WHITTEN RD DETOUR
Temporary Connector Road (See Whitten Rd Connector Plans)
END DETOUR
Target
Lowe's Home Improvement
200 0 200 400
Scale of Feet
Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808 BRIDGE PLANS

PROJ. MANAGER	D. EATON	BY	DATE
DESIGN-DETAILED	PLP/KBJ	PLP/KBJ	JUNE 2023
CHECKED-REVIEWED	LEM	LEM	JUNE 2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

ROADWAY DETOUR MOT
PHASE 2 I-95 SB CLOSURE

SHEET NUMBER
172
OF 190

Filename: ..._MOT_Detour_Overview_phase2.dgn Division: BRIDGE Username: kwight Date:7/18/2023

NOTES

1. Refer to Special Provision 107 for allowed duration times.

2. Phase 3B shall commence immediately following the completion of Phase 3A.

3. See Maintenance of Traffic Phase 3A Plans for additional detour signs.



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS

BRIDGE NO. 5808

WIN
21672.00

	BY	DATE
PROJ. MANAGER	D. EATON	
DESIGN-DETAILED	PLP/KBJ	JUNE 2023
CHECKED-REVIEWED	LEM	JUNE 2023
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

ROADWAY DETOUR
MOT PHASE 3A

SHEET NUMBER

173

OF 190

Stantec

Filename: ..._MOT_Detour_Overview_phase3a.dgn Division: BRIDGE Username: kwight Date:7/18/2023

Filename: ...\MSTA_MOT_stage3A_Plan_01.dgn Division: BRIDGE Username: kwight Date:7/18/2023

NOTES

1. Portable Concrete Barrier, Type I and Drums are shown for intent. Contractor shall propose location of barrier and drums with submitted Traffic Control Plan.

END ROAD WORK
G20-2

WESTERN AVENUE

71+92 71+00 70+00 69+00 N60°24'38.32"W 68+00 67+00 66+00

100.00' 100.00' 100.00'

ROAD WORK AHEAD
W20-1

RIGHT LANE CLOSED AHEAD
W20-5R

NEW TRAFFIC PATTERN AHEAD
W23-2

W4-2R

RAMP

N39°45'48.38"E

201+00 3001+00 3000+00 60+00 200+00 61+00 62+00 63+00 64+00 65+00 66+00

WESTERN AVENUE

Temporary Curb Line (From Phase 2)

Contractor to Maintain Sidewalk Access

Contractor to maintain access to business entrances

Work Zone Crash Cushion (TL-2)

SIDEWALK CLOSED
R9-9

ROAD CLOSED

RII-2
M6-1L
(Mounted to Type III Barricade)

Portable Concrete Barrier, Type I (Typ.)

Work Zone (Typ.)

Work Zone (Typ.)

PLAN

25 0 25 50
Scale of Feet

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00

BRIDGE NO. 5808

BRIDGE PLANS

P.E. NUMBER

DATE

SIGNATURE

	BY	DATE
D. EATON		
PROJ. MANAGER	PLP/KBJ	JUNE 2023
DESIGN-DETAILED	PLP/KBJ	JUNE 2023
CHECKED-REVIEWED	LEM	
DESIGN2-DETAILED2	LEM	
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

MAINTENANCE OF TRAFFIC
PHASE 3A PLAN (1 OF 5)

SHEET NUMBER
174
OF 190

Filename: ...\MSTA_MOT_stage3A_Plan_02.dgn Username: kwight Division: BRIDGE Date:7/18/2023

NOTES

1. Western Ave traffic will be under free flow condition and Ramp traffic will be under stop control condition. Contractor shall cover temporary and permanent signal heads and extend Western Ave temporary striping thru intersection.

ROAD WORK AHEAD
W20-1

BRIDGE CLOSED
R11-2
M6-1L

Pedestrian Route

EXIT 109B SB OFF RAMP

MAINE INTERSTATE 95 SOUTHBOUND

MAINE INTERSTATE 95 NORTHBOUND

W1-4B

W1-4R

Free Flow Ramp Entrance

Pedestrian Route

W11-2
W16-7P

Temporary Modular Delineator Curb

W20-1

RAMP NARROWS
W5-4

NEW TRAFFIC PATTERN AHEAD
W23-2

EXIT 109 NB OFF RAMP

EXIT 109 NB/SB ON RAMP

END ROAD WORK
G20-2

TRAFFIC FROM RIGHT DOES NOT STOP
W4-4aRP

BRIDGE CLOSED
R11-2
M6-1R

W1-4R

Temporary Curb Line (From Phase 2)

WESTERN AVENUE

WHITTEN ROAD

Work Zone (Typ.)

APPROX. LOCATION

PLAN

25 0 25 50
Scale of Feet

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

PROJ. MANAGER	BY	DATE
DESIGN-DETAILED	PLP/KBJ	JUNE 2023
CHECKED-REVIEWED	LEM	JUNE 2023
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

D. EATON

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

MAINTENANCE OF TRAFFIC PHASE 3A PLAN (2 OF 5)

SHEET NUMBER
175
OF 190

Filename: ...\MSTA_MOT_stage3A_Plan_03.dgn Division: BRIDGE Username: kwight Date:7/18/2023

END ROAD WORK
G20-2

DETOUR
WHITTEN RD
M4-9

RIGHT LANE MUST TURN RIGHT
R3-7R

Pedestrian Detour Route

Right Turn Only

APPROX. LOCATION

ONLY

501+00

3007+30

9+00 10+00 11+00 12+00 13+00 14+00 15+00 16+00

N84°13'17.06"W

WESTERN AVENUE

302+00 S84°13'17.06"E 303+00 304+00 305+00 306+00

Exit 109B NB/SB On Ramp

EAST 202 M3-2 MI-4 (202) M6-2L

NORTH SOUTH INTERSTATE 95 M3-1 M3-3 MI-4 (95) M6-2R

(Mounted to Type III Barricade)

END ROAD WORK
G20-2

PLAN

25 0 25 50
Scale of Feet

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00

BRIDGE NO. 5808 BRIDGE PLANS

	BY	DATE
D. EATON	PLP/KBJ	JUNE 2023
PROJ. MANAGER	PLP/KBJ	JUNE 2023
DESIGN-DETAILED	LEM	
CHECKED-REVIEWED		
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

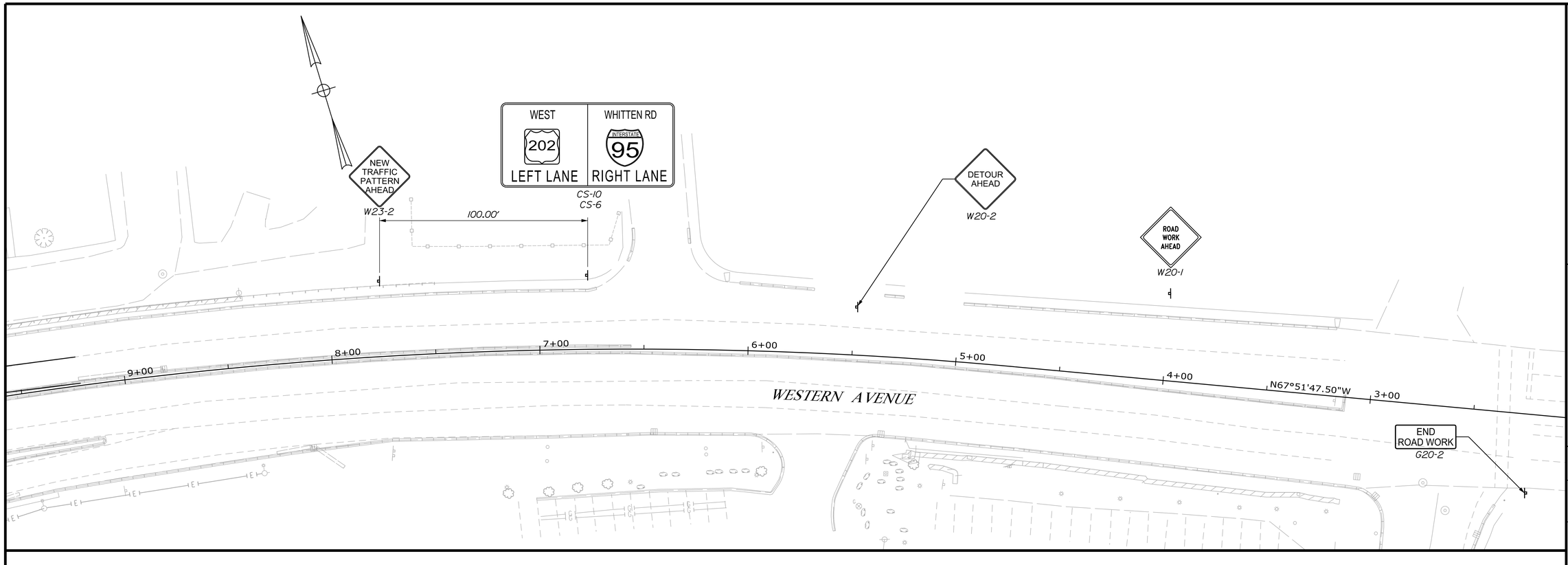
DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

MAINTENANCE OF TRAFFIC
PHASE 3A PLAN (3 OF 5)

SHEET NUMBER
176
OF 190

Filename: ...\MSTA_MOT_stage3A_Plan_04.dgn Division: BRIDGE Username: kwight Date:7/18/2023



PLAN

25 0 25 50

Scale of Feet

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00

BRIDGE NO. 5808

BRIDGE PLANS

PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	PLP/KBJ	JUNE 2023	SIGNATURE
CHECKED-REVIEWED	LEM	JUNE 2023	
DESIGN2-DETAILED2			P.E. NUMBER
DESIGN3-DETAILED3			
REVISIONS 1			DATE
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

MAINTENANCE OF TRAFFIC PHASE 3A PLAN (4 OF 5)

SHEET NUMBER

177

OF 190

Filename: ...\MSTA_MOT_stage3A_Plan_05.dgn Division: BRIDGE Username: kwight Date:7/18/2023

Work Zone (Typ.)

WHITTEN ROAD

100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00

56°56'39.96"W

21+00

23+00

WESTERN AVE
DETOUR
CS-10
M4-9L

ROAD CLOSED
RII-2 (On Type III Barricades)

WESTERN AVE
DETOUR
CS-10
M4-9R

END ROAD WORK
G20-2

ROAD WORK AHEAD
W20-1

WHITTEN ROAD

6+00 107+00 108+00 109+00 110+00 111+00 112+00 113+00

S13°53'08.74"W

WHITTEN ROAD

END ROAD WORK
G20-2

PLAN

25 0 25 50
Scale of Feet

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

	D. EATON	BY	DATE
PROJ. MANAGER			
DESIGN-DETAILED	PLP/KBJ	PLP/KBJ	JUNE 2023
CHECKED-REVIEWED	LEM	LEM	JUNE 2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

MAINTENANCE OF TRAFFIC
PHASE 3A PLAN (5 OF 5)

SHEET NUMBER
178
OF 190

Filename: ...\MSTA_MOT_stage3B_Plan_01.dgn Division: BRIDGE Username: kwight Date:7/18/2023

NOTES

1. Refer to Special Provision 107 for allowed duration times.

2. Phase 3B shall commence immediately following the completion of Phase 3A.

3. Portable Concrete Barrier, Type I and Drums are shown for intent. Contractor shall propose location of barrier and drums with submitted Traffic Control Plan.

END ROAD WORK
G20-2

SIDEWALK CLOSED
CROSS HERE
R9-11

71+92 71+00 70+00 69+00 N60°24'38.32"W 68+00 67+00 66+00

WESTERN AVENUE

ROAD WORK AHEAD
W20-1

100.00'

LEFT LANE CLOSED AHEAD
W20-5L

SIDEWALK CLOSED
R9-9

N29°24'38.32"E 204.00'

60+00 61+00 62+00 63+00 64+00 65+00 66+00

WESTERN AVENUE

Drums @ 25' O.C.

Flashing Arrow Board

Flashing Arrow Board

100.00'

LEFT LANE CLOSED AHEAD
W20-5L

W4-2L

PLAN

25 0 25 50
Scale of Feet

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

P.E. NUMBER
DATE
SIGNATURE

	BY	DATE
D. EATON	PLP/KBJ	JUNE 2023
PROJ. MANAGER	PLP/KBJ	JUNE 2023
DESIGN-DETAILED	LEM	
CHECKED-REVIEWED	LEM	
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

MAINTENANCE OF TRAFFIC
PHASE 3B PLAN (1 OF 5)

SHEET NUMBER
179
OF 190

Filename: ...\MSTA_MOT_stage3B_Plan_02.dgn Division: BRIDGE Username: kwight Date:7/18/2023

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808 BRIDGE PLANS

	D. EATON	DATE
PROJ. MANAGER		
DESIGN-DETAILED	PLP/KBJ	JUNE 2023
CHECKED-REVIEWED	LEM	JUNE 2023
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

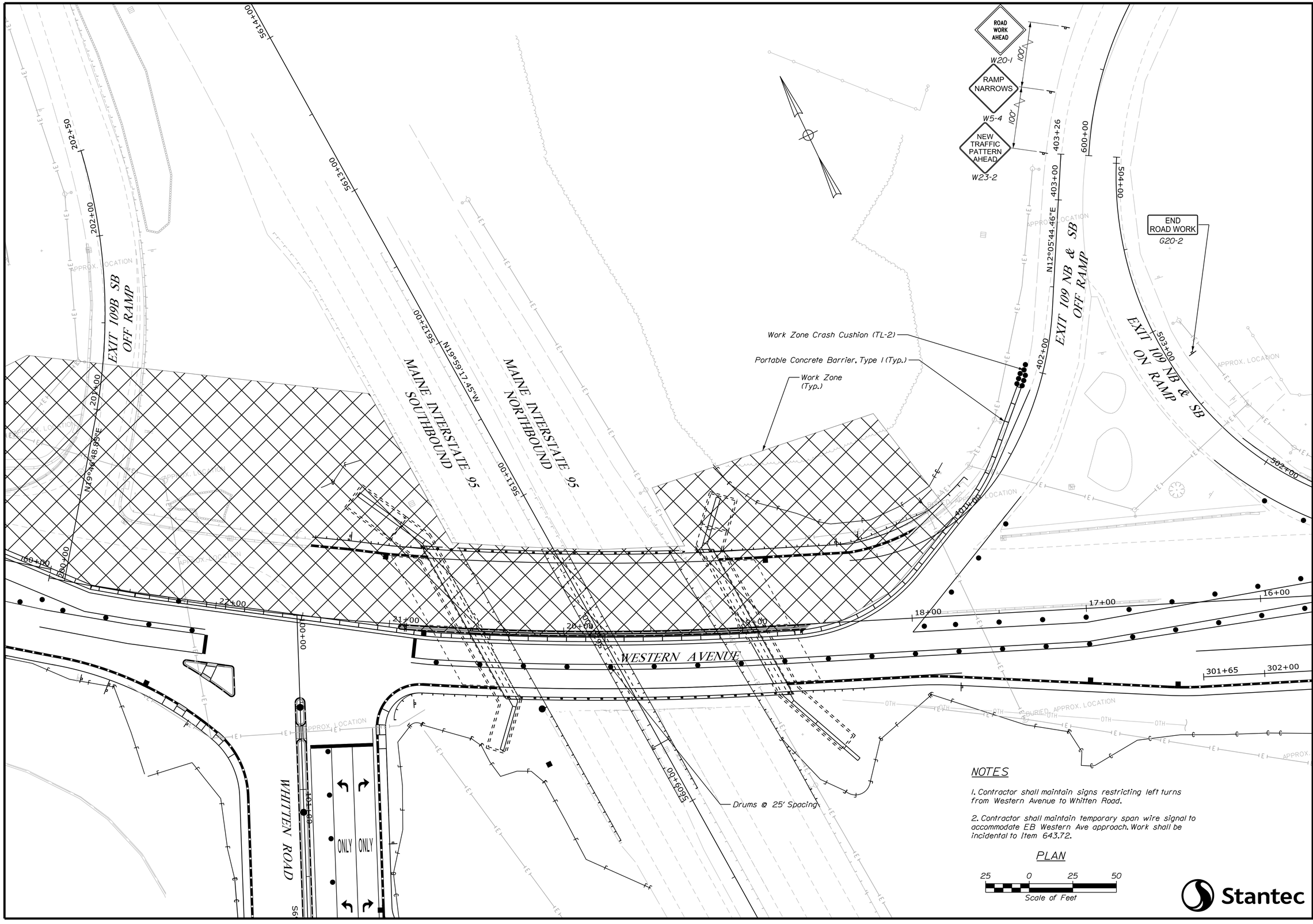
DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

MAINTENANCE OF TRAFFIC PHASE 3B PLAN (2 OF 5)

SHEET NUMBER
180
OF 190

Stantec



NOTES

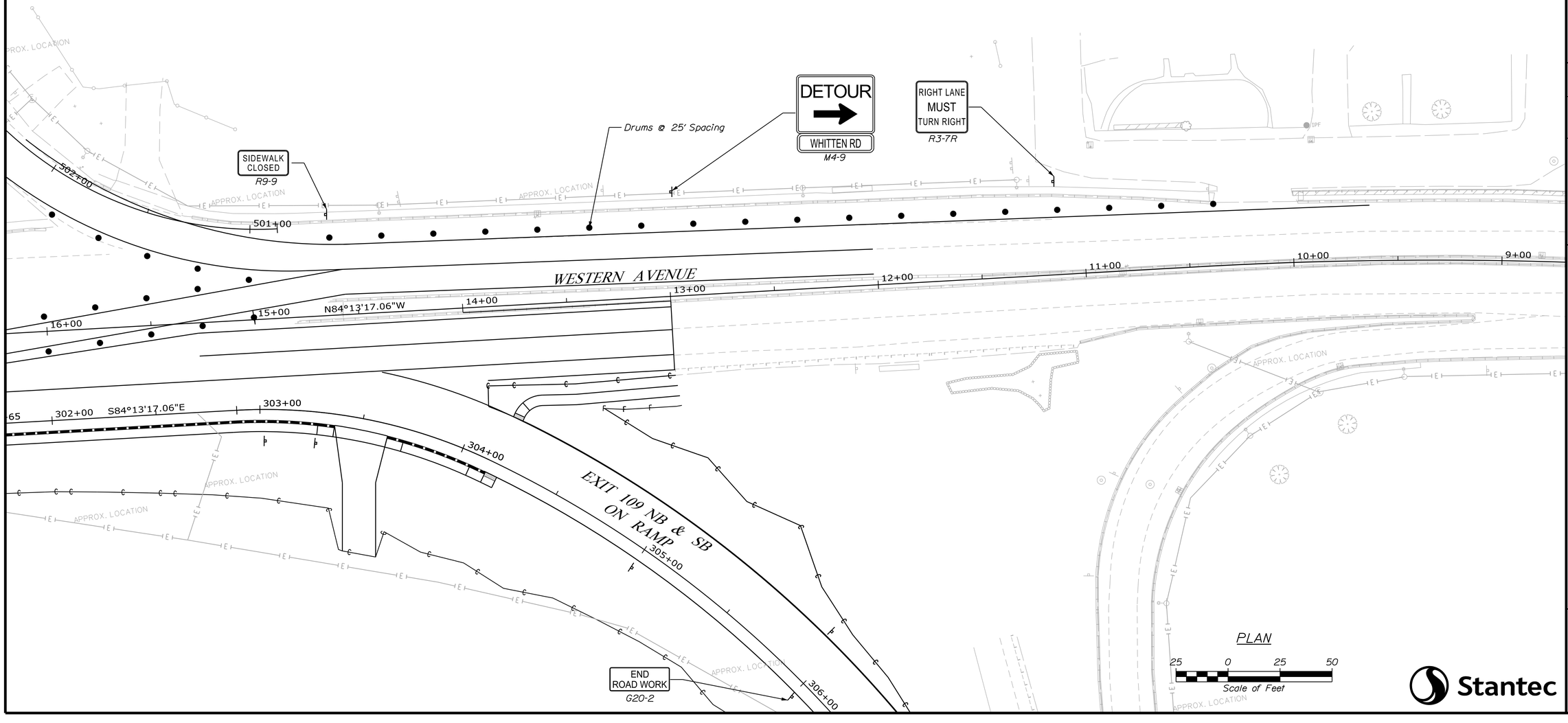
1. Contractor shall maintain signs restricting left turns from Western Avenue to Whitten Road.

2. Contractor shall maintain temporary span wire signal to accommodate EB Western Ave approach. Work shall be incidental to Item 643.72.

PLAN

25 0 25 50
Scale of Feet

Filename: ...\MSTA_MOT_stage3B_Plan_03.dgn Username: kwight Division: BRIDGE Date:7/18/2023



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 5808 WIN 21672.00 BRIDGE PLANS

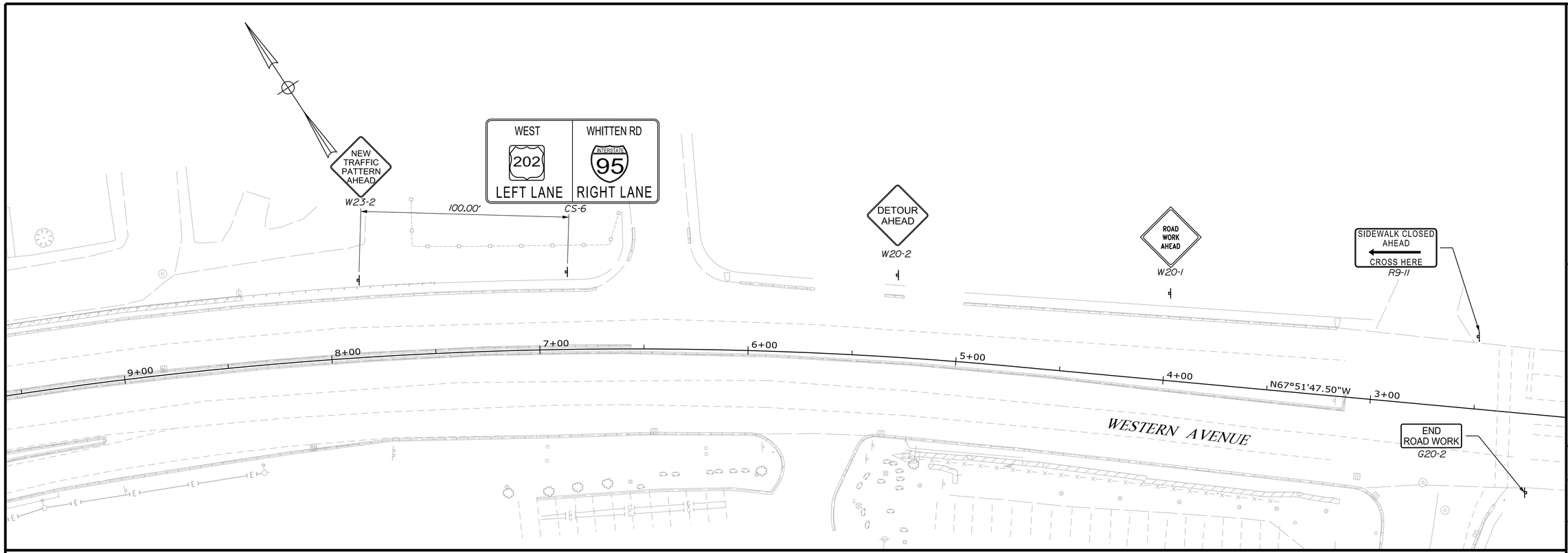
PROJ. MANAGER	D. EATON		
DESIGN-DETAILED	PLP/KBJ	JUNE 2023	SIGNATURE
CHECKED-REVIEWED	PLP/KBJ	JUNE 2023	
DESIGN2-DETAILED2	LEM		P.E. NUMBER
DESIGN3-DETAILED3	LEM		
REVISIONS 1			DATE
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

MAINTENANCE OF TRAFFIC PHASE 3B PLAN (3 OF 5)

SHEET NUMBER
181
OF 190

Stantec



PLAN

25 0 25 50

Scale of Feet

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 5808

WIN 21672.00

BRIDGE PLANS

	BY	DATE
D. EATON		
PROJ. MANAGER		
DESIGN-DETAILED	PLP/KBJ	JUNE 2023
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DESIGN3-DETAILED3		
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REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

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DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

MAINTENANCE OF TRAFFIC
PHASE 3B PLAN (4 OF 5)

SHEET NUMBER

182

OF 190

Filename: ...\MSTA_MOT_stage3B_Plan_04.dgn Division: BRIDGE Username: kwight Date:7/18/2023

Filename: ...\MSTA_MOT_stage3B_Plan_05.dgn Username: kwight Division: BRIDGE Date:7/18/2023

LEFT LANE MUST TURN RIGHT
R3-7L

RIGHT LANE MUST TURN RIGHT
R3-7R

100'

NEW TRAFFIC PATTERN AHEAD
W23-2

ONLY ONLY ONLY

APPROX. LOCATION

21+00

22+00

100+00 101+00 102+00 103+00 104+00 105+00 106+00 107+00

WHITTEN ROAD

S6°56'39.96"W

END ROAD WORK
G20-2

ROAD WORK AHEAD
W20-1

106+00 107+00 108+00 109+00 110+00 111+00 112+00 113+00

S13°53'08.74"W

WHITTEN ROAD

END ROAD WORK
G20-2

PLAN

25 0 25 50
Scale of Feet

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808
BRIDGE PLANS

P.E. NUMBER

DATE

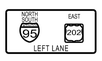
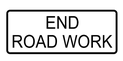
SIGNATURE

	BY	DATE
PROJ. MANAGER	D. EATON	
DESIGN-DETAILED	PLP/KBJ	JUNE 2023
CHECKED-REVIEWED	LEM	JUNE 2023
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DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

WESTERN AVENUE BRIDGE
INTERSTATE 95
AUGUSTA KENNEBEC COUNTY

MAINTENANCE OF TRAFFIC
PHASE 3B PLAN (5 OF 5)

SHEET NUMBER
183
OF 190

MUTCD NUMBER	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	TEXT	COLOR BACK-GROUND	COLOR LEGEND BORDER	TEXT DIMENSIONS LETTER HEIGHT	TEXT DIMENSIONS VERTICAL SPACING	TEXT DIMENSIONS SHIELD/ ARROW	NUMBER OF SIGNS REQUIRED	SIGN AREA (SQ. FEET) NOM. AREA	SIGN AREA (SQ. FEET) TOTAL AREA
CS-4	48"	48"		ORANGE	BLACK	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			1	16.00	16
CS-5	42"	30"		ORANGE	BLACK				1	8.75	8.75
CS-6	108"	60"		ORANGE	BLACK				1	45.00	45
CS-7	66"	30"		ORANGE	BLACK				1	13.75	13.75
CS-8	48"	30"		ORANGE	BLACK				4	10.00	40
CS-9	48"	12"		ORANGE	BLACK				17	4.00	68
CS-10	48"	12"		ORANGE	BLACK				8	4.00	32
CS-11	48"	48"		ORANGE	BLACK				1	16.00	16
CS-12	108"	60"		GREEN	WHITE				1	45.00	45
E5-2a	48"	36"		ORANGE	BLACK				2	12.00	24
G20-2	48"	24"		ORANGE	BLACK				5	8.00	40
G20-5aP	36"	24"		ORANGE	BLACK				8	6.00	48
M1-4	36"	36"		WHITE	BLUE				20	9.00	180

MUTCD NUMBER	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	TEXT	COLOR BACK-GROUND	COLOR LEGEND BORDER	TEXT DIMENSIONS LETTER HEIGHT	TEXT DIMENSIONS VERTICAL SPACING	TEXT DIMENSIONS SHIELD/ ARROW	NUMBER OF SIGNS REQUIRED	SIGN AREA (SQ. FEET) NOM. AREA	SIGN AREA (SQ. FEET) TOTAL AREA
M1-4	45"	36"		WHITE	BLUE	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			1	11.25	11.25
M3-1	24"	12"		ORANGE	BLACK				11	2.00	22
M3-2	24"	12"		ORANGE	BLACK				1	2.00	2
M3-3	24"	12"		ORANGE	BLACK				10	2.00	20
M3-4	24"	12"		ORANGE	BLACK				10	2.00	20
M4-8a	24"	18"		ORANGE	BLACK				5	3.00	15
M4-9	48"	36"		ORANGE	BLACK				13	12.00	156
M4-9 (LEFT)	48"	36"		ORANGE	BLACK				8	12.00	96
M4-9 (RIGHT)	48"	36"		ORANGE	BLACK				14	12.00	168
M6-1 (LEFT)	21"	15"		ORANGE	BLACK				4	2.19	8.75
M6-1 (RIGHT)	21"	15"		ORANGE	BLACK				2	2.19	4.38
M6-2L	21"	15"		ORANGE	BLACK				1	2.19	2.19
M6-2R	21"	15"		ORANGE	BLACK				1	2.19	2.19

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS

WIN 21672.00

BRIDGE NO. 5808

	BY	DATE
PROJ. MANAGER	D. EATON	
DESIGN-DETAILED	PLP/KBJ	JUNE 2023
CHECKED-REVIEWED	LEM	JUNE 2023
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

MAINTENANCE OF TRAFFIC
SIGN SUMMARY (1 OF 3)

SHEET NUMBER

184

OF 190

Filename: ...\00\BRIDGE\MSTA_MOT_SS_01.dgn Division: BRIDGE Username: kwight Date:7/18/2023

MUTCD NUMBER	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	TEXT	COLOR BACK-GROUND	COLOR LEGEND BORDER	TEXT DIMENSIONS LETTER HEIGHT	TEXT DIMENSIONS VERTICAL SPACING	TEXT DIMENSIONS SHIELD/ ARROW	NUMBER OF SIGNS REQUIRED	SIGN AREA (SQ. FEET) NOM. AREA	SIGN AREA (SQ. FEET) TOTAL AREA
M6-3	21"	15"		ORANGE	BLACK	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			1	2.19	2.19
RI-1	30"	30"		RED	WHITE				2	6.25	12.5
RI-2	36"	36" 36"		RED	WHITE				1	3.90	3.9
R2-1	48"	60"		WHITE	BLACK				8	20.00	160
R2-6aP	48"	36"		WHITE	BLACK				8	12.00	96
R2-12	36"	54"		WHITE	BLACK				8	13.5	108
R3-2	36"	36"		WHITE	RED/ BLACK				4	9.00	36
R3-7 (LEFT)	36"	36"		WHITE	BLACK				1	9.00	9
R3-7 (RIGHT)	36"	36"		WHITE	BLACK				3	9.00	27
R4-8a	24"	30"		WHITE	BLACK				1	5.00	5
R9-9	24"	12"		WHITE	BLACK				3	2.00	6
R9-11	24"	18"		WHITE	BLACK				2	3.00	6
RII-2	48"	30"		WHITE	BLACK				1	10.00	10

MUTCD NUMBER	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	TEXT	COLOR BACK-GROUND	COLOR LEGEND BORDER	TEXT DIMENSIONS LETTER HEIGHT	TEXT DIMENSIONS VERTICAL SPACING	TEXT DIMENSIONS SHIELD/ ARROW	NUMBER OF SIGNS REQUIRED	SIGN AREA (SQ. FEET) NOM. AREA	SIGN AREA (SQ. FEET) TOTAL AREA
RII-2	48"	30"		WHITE	BLACK	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			12	10.00	120
RII-2	48"	30"		WHITE	BLACK				2	10.00	20
SP-01	30"	24"		WHITE	BLACK				1	5.00	5
WI-4L (LEFT)	36"	36"		ORANGE	BLACK				1	9.00	9
WI-4R (RIGHT)	36" 48"	36" 48"		ORANGE	BLACK				2 1	9.00 16.00	18 16
WI-4bL (LEFT)	36"	36"		ORANGE	BLACK				2	9.00	18
W3-1	30"	30"		ORANGE	BLACK				1	9.00	9
W3-5	48"	48"		ORANGE	BLACK				8	16.00	128
W4-2L (LEFT)	48" 36"	48" 36"		ORANGE	BLACK				5 1	16.00 9.00	80 9
W4-2R (RIGHT)	48" 36"	48" 36"		ORANGE	BLACK				4 2	16.00 9.00	64 18
W4-4aPR	24"	12"		ORANGE	BLACK				1	2.00	2
W5-4	36"	36"		ORANGE	BLACK				2	9.00	18
W7-3aP	24"	18"		ORANGE	BLACK				2	3.00	6

Stantec

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00

BRIDGE NO. 5808

BRIDGE PLANS

	BY	DATE
PROJ. MANAGER	D. EATON	
DESIGN-DETAILED	PLP/KBJ	JUNE 2023
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DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
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REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

MAINTENANCE OF TRAFFIC
SIGN SUMMARY (2 OF 3)

SHEET NUMBER

185

OF 190

Filename: ...\00\BRIDGE\MSTA_MOT_SS_02.dgn Division: BRIDGE Username: kwright Date:7/18/2023

MUTCD NUMBER	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	TEXT	COLOR BACK-GROUND	COLOR LEGEND BORDER	TEXT DIMENSIONS LETTER HEIGHT	TEXT DIMENSIONS VERTICAL SPACING	TEXT DIMENSIONS SHIELD/ ARROW	NUMBER OF SIGNS REQUIRED	SIGN AREA (SQ. FEET) NOM. AREA	SIGN AREA (SQ. FEET) TOTAL AREA
W11-2	36"	36"		FLUOR-ESCENT YELLOW	BLACK	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			2	9.00	18
W13-4p	36"	36"		ORANGE	BLACK				1	9.00	9
W16-2p	30"	24"		ORANGE	BLACK				2	5.00	10
W16-7p	24"	12"		FLUOR-ESCENT YELLOW	BLACK				2	2.00	4
W20-1	36" 48"	36" 48"		ORANGE	BLACK				5 12	9.00 16.00	45 192
W20-2	36"	36"		ORANGE	BLACK				5	9.00	45
W20-3	36"	36"		ORANGE	BLACK				1	9.00	9
W20-5 (LEFT)	48"	48"		ORANGE	BLACK				5 1	16.00 9.00	80 9
W20-5 (RIGHT)	48"	48"		ORANGE	BLACK				4 1	16.00 9.00	64 9
W21-5	36"	36"		ORANGE	BLACK				2	9.00	18
W21-5aR	48"	48"		ORANGE	BLACK				4	16.00	64
W23-2	36"	36"		ORANGE	BLACK				6	9.00	54

Filename: ...\00\BRIDGE\MSTA_MOT_SS_03.dgn Division: BRIDGE Username: kwight Date:7/18/2023

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN 21672.00
BRIDGE NO. 5808 BRIDGE PLANS

PROJ. MANAGER	D. EATON	BY	DATE
DESIGN-DETAILED	PLP/KBJ	PLP/KBJ	JUNE 2023
CHECKED-REVIEWED	LEM	LEM	JUNE 2023
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

WESTERN AVENUE BRIDGE
INTERSTATE 95
KENNEBEC COUNTY
AUGUSTA

MAINTENANCE OF TRAFFIC
SIGN SUMMARY (3 OF 3)

SHEET NUMBER
186
OF 190

Stantec

PLAN LEGEND

Town, County, State	New R/W Along Existing R/W		Existing	Proposed		Existing	Proposed
Approx. Property Lines P.L.	Building	Clearing Limit Line	Sanitary Sewer		Traveled Way		
Existing Right of Way	Trees Conifer	Deciduous	Telephone Line		Ditch		
Limits of Wrought Portion L.O.W.P.	Tree Line	Bush Line	Electric Line		Catch Basin		
Control Of Access C.O.A.	Water Edge		Water Line		Manhole		
New Right of Way	Ledge	Rock/Boulder Flag Pole	Underdrain Line		Sewer Manhole		
New Easement	Fence CHAIN LINK	BARB WIRE STOCKADE	Gas Line		Utility Pole		
New Temporary Rights	Sign	Well WELL Mailbox	Guardrail		Fire Hydrant		
New R/W Within Existing R/W			Culvert		Curbing		

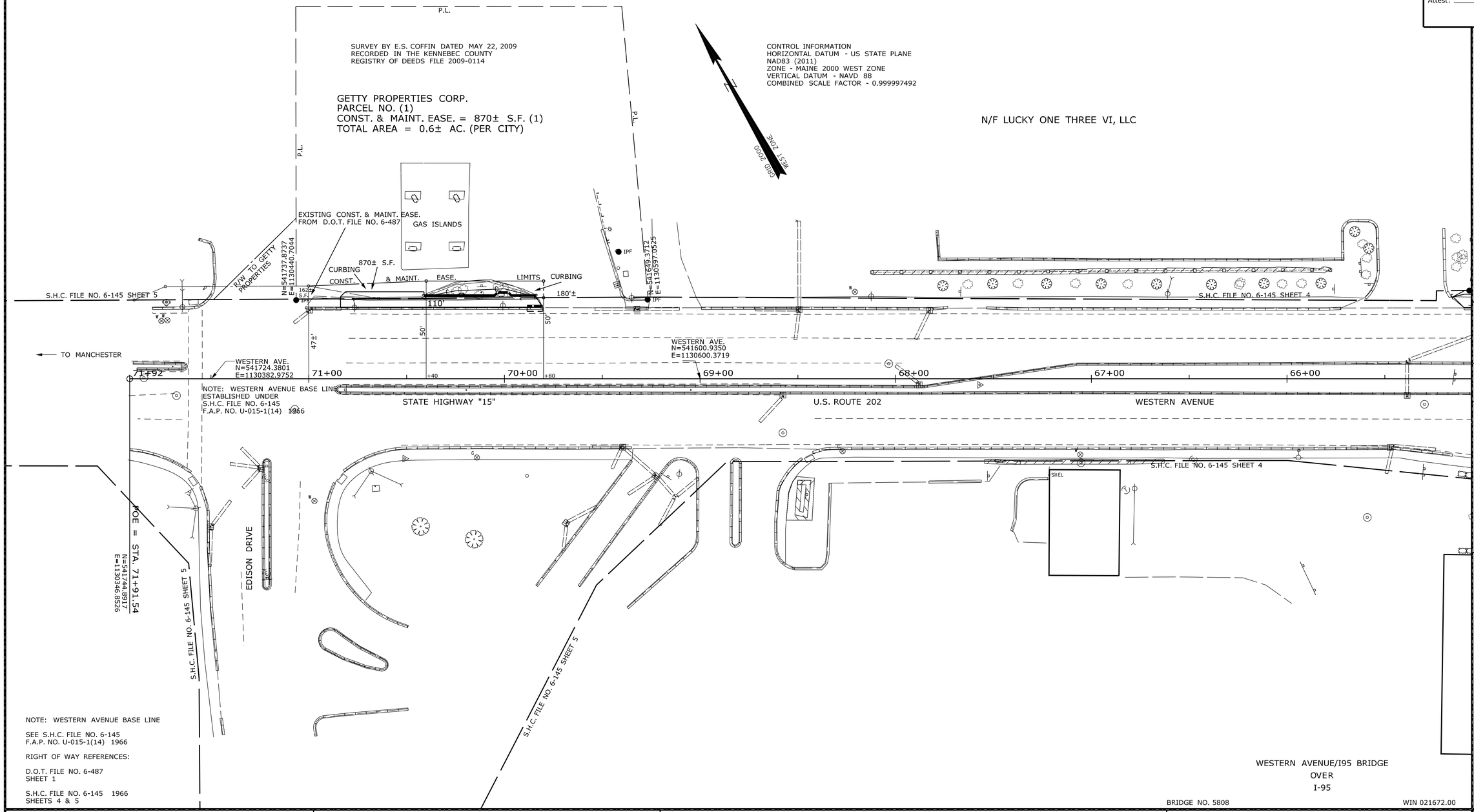
Cut Line / Fill Line
Stonewall / Retaining Wall
Baseline 10+00 11+00 12+00
Monument / Traverse Point
Iron Rod Found ● IRF / Pipe Found ● IPF
Replacement Pin Set

THIS PLAN WAS PREPARED IN CONNECTION WITH THE DEPARTMENT'S ACQUISITION OF REAL PROPERTY FOR TRANSPORTATION PURPOSES. IT CANNOT BE USED TO ESTABLISH LEGAL BOUNDARIES BETWEEN ABUTTING PROPERTY OWNERS.

25 0 25 50 75 100
Scale of Feet

STATE OF MAINE REGISTRY OF DEEDS

COUNTY _____
RECEIVED _____, _____
at _____h_____m_____M and
recorded in Plan Bk _____, Pg._____
Attest: _____
REGISTER



REVISIONS NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE

BRUCE A. VAN NOTE
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

ITEM	TECH	CHECKED
EXISTING CONDITION PLAN	JDF	SAN
FINAL RIGHT OF WAY	JDF	SAN
AREAS	SAN	JDF

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016 - 207-624-3460
AUGUSTA
RIGHT OF WAY MAP

STATE HIGHWAY "15"
U.S. ROUTE 202 / WESTERN AVENUE
AUGUSTA KENNEBEC COUNTY
FEDERAL AID PROJECT NO. 2167200

MAY 2023	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 6-501
SCALE 1" = 25'	SHEET 1 OF 4	

SHEET NUMBER
187
OF 190

Filename: $file$ Division: $wkgroup$ Username: $user$ Date:$date$

Date: $date$
Username: $user$
Division: $wkgroup$
Filename: $file$

PLAN LEGEND

Town, County, State	New R/W Along Existing R/W		Existing	Proposed		Existing	Proposed
Approx. Property Lines P.L.	Building	Clearing Limit Line	Sanitary Sewer		Traveled Way		
Existing Right of Way	Trees Conifer	Deciduous	Telephone Line		Ditch		
Limits of Wrought Portion L.O.W.P.	Tree Line	Bush Line	Electric Line		Catch Basin		
Control Of Access C.O.A.	Water Edge		Water Line		Manhole		
New Right of Way	Ledge	Rock/Boulder Flag Pole	Underdrain Line		Sewer Manhole		
New Easement	Fence CHAIN LINK	BARB WIRE STOCKADE	Gas Line		Utility Pole		
New Temporary Rights	Sign	Well Mailbox	Guardrail		Fire Hydrant		
New R/W Within Existing R/W			Culvert		Curbing		

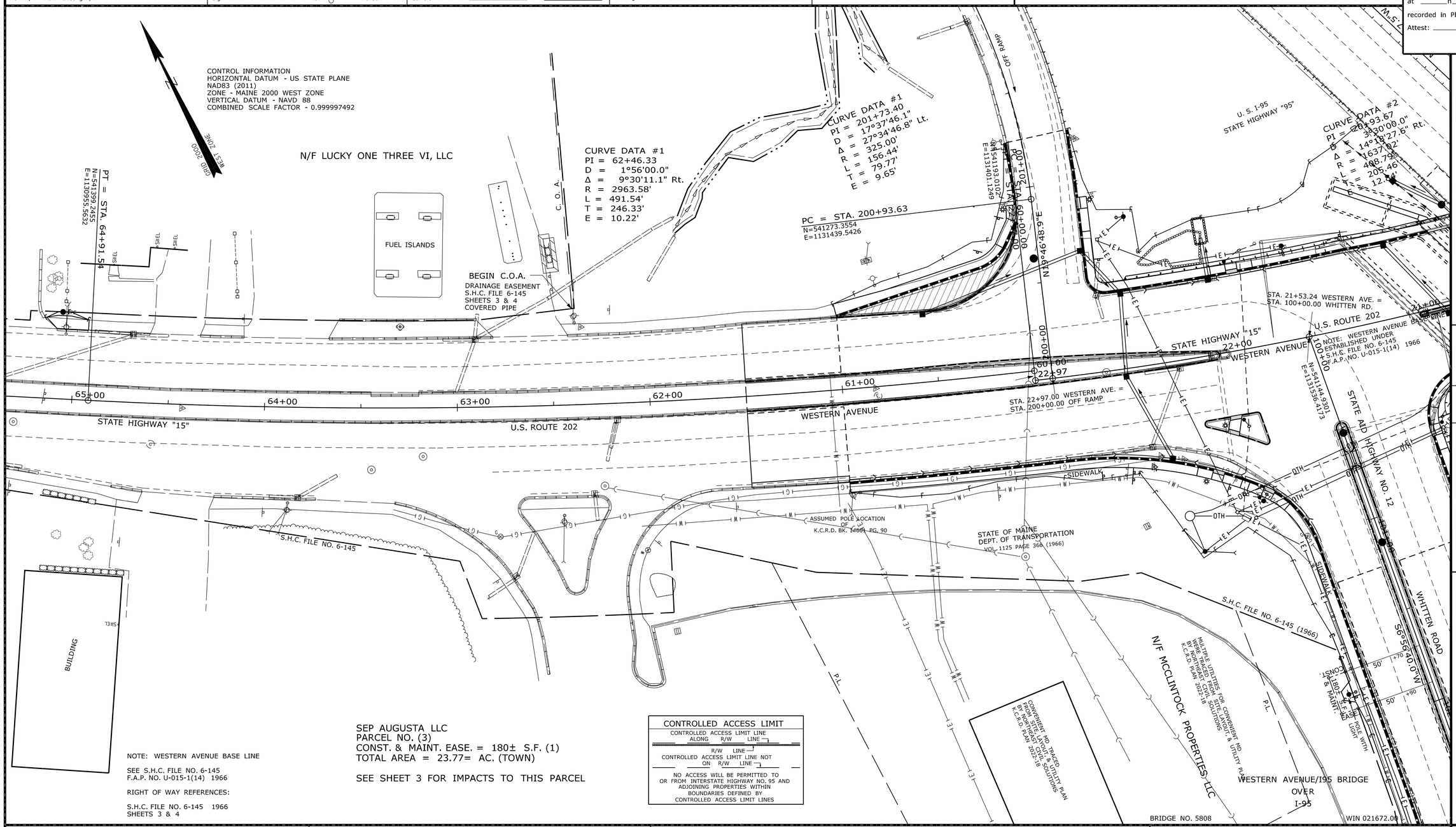
Cut Line		Fill Line	
Stonewall		Retaining Wall	
Baseline	10+00 11+00 12+00		
Monument		Traverse Point	
Iron Rod Found ● IRF		Pipe Found ● IPF	
Replacement Pin Set			

THIS PLAN WAS PREPARED IN CONNECTION WITH THE DEPARTMENT'S ACQUISITION OF REAL PROPERTY FOR TRANSPORTATION PURPOSES. IT CANNOT BE USED TO ESTABLISH LEGAL BOUNDARIES BETWEEN ABUTTING PROPERTY OWNERS.

25 0 25 50 75 100
Scale of Feet

STATE OF MAINE REGISTRY OF DEEDS

COUNTY _____
RECEIVED _____, _____
at _____h _____m _____M and
recorded in Plan Bk _____, Pg. _____
Attest: _____
REGISTER



NOTE: WESTERN AVENUE BASE LINE

SEE S.H.C. FILE NO. 6-145
F.A.P. NO. U-015-1(14) 1966

RIGHT OF WAY REFERENCES:

S.H.C. FILE NO. 6-145 1966
SHEETS 3 & 4

SEP AUGUSTA LLC
PARCEL NO. (3)
CONST. & MAINT. EASE. = 180± S.F. (1)
TOTAL AREA = 23.77= AC. (TOWN)

SEE SHEET 3 FOR IMPACTS TO THIS PARCEL

CONTROLLED ACCESS LIMIT

CONTROLLED ACCESS LIMIT LINE ALONG R/W LINE

CONTROLLED ACCESS LIMIT LINE NOT ON R/W LINE

NO ACCESS WILL BE PERMITTED TO OR FROM INTERSTATE HIGHWAY NO. 95 AND ADJOINING PROPERTIES WITHIN BOUNDARIES DEFINED BY CONTROLLED ACCESS LIMIT LINES

TECH	CHECKED
JDF	SAN
JDF	SAN
SAN	JDF

ITEM
EXISTING CONDITION PLAN
FINAL RIGHT OF WAY
AREAS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016 - 207-624-3460
AUGUSTA
RIGHT OF WAY MAP

REVISIONS

NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK ____ PAGE ____ COUNTY RECORD

NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE

BRUCE A. VAN NOTE
COMMISSIONER

JOYCE NOEL TAYLOR
CHIEF ENGINEER

DATE

STATE HIGHWAY "15"
U.S. ROUTE 202 / WESTERN AVENUE
AUGUSTA KENNEBEC COUNTY
FEDERAL AID PROJECT NO. 2167200

MAY 2023	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 6-501
SCALE 1" = 25'	SHEET 2 OF 4	

SHEET NUMBER
188
OF 190

PLAN LEGEND

Town, County, State	New R/W Along Existing R/W		Existing	Proposed		Existing	Proposed
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Baseline	10+00 11+00 12+00		
Monument		Traverse Point	
Iron Rod Found IRF		Pipe Found IPF	
Replacement Pin Set			

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25 0 25 50 75 100
Scale of Feet

STATE OF MAINE
REGISTRY OF DEEDS
COUNTY _____
RECEIVED _____, _____
at _____h_____m_____M and
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REGISTER

N=541097.0639
E=1131796.7943

CONTROL INFORMATION
HORIZONTAL DATUM - US STATE PLANE
NAD83 (2011)
ZONE - MAINE 2000 WEST ZONE
VERTICAL DATUM - NAVD 88
COMBINED SCALE FACTOR - 0.999997492

GRID 2000 WEST ZONE

INTERSTATE "95" NORTHBOUND
INTERSTATE "95" SOUTHBOUND
00+809
00+609.95
00+1195
20+00

CURVE DATA #2
PI = 20+93.67
D = 3°30'00.0"
Δ = 14°19'27.6" Rt.
R = 1637.02'
L = 408.79'
T = 205.46'
E = 12.77'

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
BOOK 1125 PAGE 366 (1958)

I-95 ROW LINE
C.O.A.

DRAINAGE EASEMENT
MAINE TURNPIKE AUTHORITY TO
STATE OF MAINE
KENNEBEC COUNTY REGISTRY OF DEEDS
BOOK 1388 PAGE 79

HALLOWELL REALTY
PARCEL NO. (2)
CONST. & MAINT. EASE. = 263± S.F. (1)
TOTAL AREA = 8.21 AC. (PER CITY)

50'

NATURAL GAS SERVICE FROM 23 WHITTEN RD (KEY BANK)
TO AND ACROSS WHITTEN ROAD TRACED (APPROX. LOC. ONLY)
PRIVATE EASEMENT PER K.C.R.D. VOL 14589 PG 51

POSSIBLE LOCATION OF SIGNAL SYSTEM EASEMENT
TO MAINE DOT K.C.R.D. BK. 4016 PG. 103 8/7/1991

S.H.C. FILE NO 6-145

CONST. & MAINT.
EASEMENT LIMITS

263± S.F.

TURNAROUND

SIDEWALK

STATE AID HIGHWAY NO. 12
WHITTEN ROAD

U.S. ROUTE 202
STATE HIGHWAY "15"
WESTERN AVENUE

STA. 21+53.24 WESTERN AVE. = STA. 100+00.00 WHITTEN RD.

NOTE: WESTERN AVENUE BASE LINE ESTABLISHED UNDER S.H.C. FILE NO. 6-145 OF F.A.P. NO. U-015-1(14) 1966

N=541144.9301
E=1131536.4173

S6°56'40.0"W
419.18'

100+00 101+00 102+00 103+00 104+00 105+00 106+00

145.38'

TO HALLOWELL

END B.L.
WHITTEN RD.

180± S.F.
CONST. & MAINT. EASE.

POLE WITH LIGHT

S.H.C. FILE NO. 6-145 (1966)

P.L.

SEP AUGUSTA LLC
PARCEL NO. (3)
CONST. & MAINT. EASE. = 180± S.F. (1)
TOTAL AREA = 23.77= AC. (TOWN)

MULTIPLE UTILITIES FOR CONVENIENT MD
WERE TRACED FROM SITE, LAYOUT, & UTILITY PLAN
BY NORTHEAST CIVIL SOLUTIONS
K.C.R.D. PLAN 2022-18

N/F MCCLINTOCK PROPERTIES LLC

SUBDIVISION PLAN
WHITTEN ROAD, AUGUSTA
PREPARED FOR SEP AUGUSTA, LLC
BY NORTHEAST CIVIL SOLUTIONS
ISSUED: 2/5/2021 LAST REVISED: 3/22/2021
RECORDED K.C.R.D. FILE 2021 NO. 54

CURVE DATA #1
PI = 104+91.96
D = 4°46'28.7"
Δ = 6°56'28.8" Rt.
R = 1200.00'
L = 145.38'
T = 72.78'
E = 2.20'

PC = STA. 104+19.18
N=540728.8213
E=1131485.7352

PT = STA. 105+64.56
N=540585.9252
E=1131459.4699

NOTE: WESTERN AVENUE BASE LINE

SEE S.H.C. FILE NO. 6-145
F.A.P. NO. U-015-1(14) 1966

RIGHT OF WAY REFERENCES:

S.H.C. FILE NO. 6-145 1966
SHEET 2

WESTERN AVENUE/I-95 BRIDGE
OVER
I95

BRIDGE NO. 5808 WIN 021672.00

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ITEM	TECH	CHECKED
EXISTING CONDITION PLAN	JDF	SAN
FINAL RIGHT OF WAY	JDF	SAN
AREAS	SAN	JDF

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PLAN LEGEND

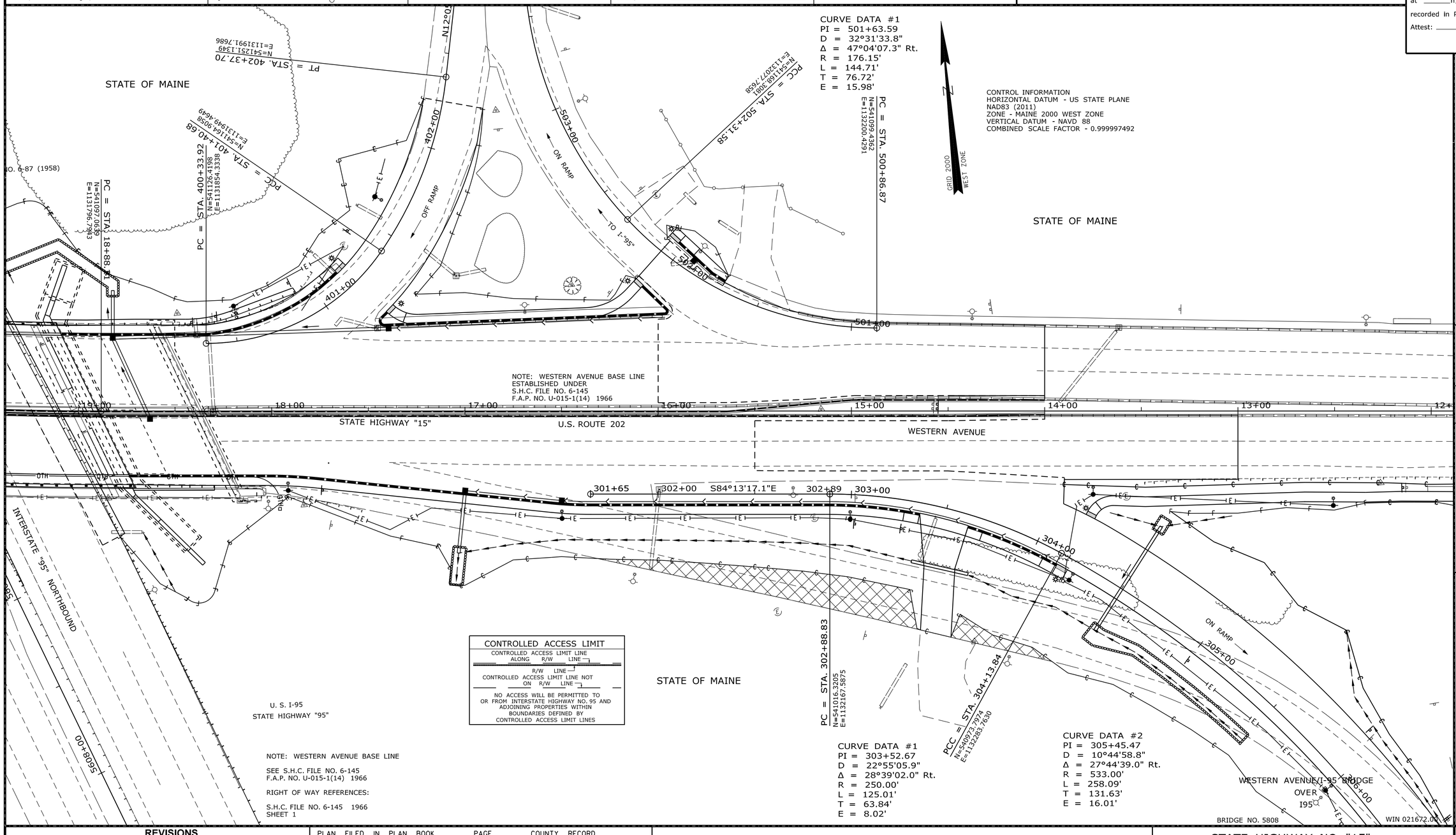
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FINAL RIGHT OF WAY	JDF	JDF	SAN	
AREAS	SAN	SAN	JDF	

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