

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



AUGUSTA
KENNEBEC COUNTY
MEMORIAL BRIDGE
OVER
KENNEBEC RIVER
ROUTE 201, 202 & 100
FEDERAL PROJECT NO. 2616400
BRIDGE NO. 5196

SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Tenth Edition.

DESIGN LOADING

Live Load HL - 93 Modified for Strength I (Truck only increased 25%)

TRAFFIC DATA

Current (2023) AADT	21,080
Future (2043) AADT	23,190
DHV - % of AADT	11%
Design Hour Volume	2551
Heavy Trucks (% of AADT)	5%
Heavy Trucks (% of DHV)	3%
Directional Distribution (% of DHV)	55%
18 kip Equivalent P 2.0	230
18 kip Equivalent P 2.5	220
Design Speed (mph)	35 mph

MATERIALS

Concrete:	Class "A"
Reinforcing Bars:	ASTM A 615, Grade 60
Structural Steel:	
All Material (except as noted)	ASTM A 709, Grade 50
High Strength Bolts	ASTM F3125 Grade A325, Type 1, Galv.
Steel Pins	ASTM A668 Class F
Bronze Bushings:	ASTM B271 UNS C95500

BASIC DESIGN STRESSES

Concrete:	
Class "A"	f 'c = 4000 psi
Reinforcing Bars:	
ASTM A 615, Grade 60	Fy = 60,000 psi
Structural Steel:	
ASTM A 709, Grade 50	Fy = 50,000 psi
ASTM F3125 Grade A325, Type I, Galv.	Fu = 120,000 psi
ASTM A668 Class F	Fy = 50,000 psi
Bronze Bushings:	Fy = 42,000 psi

MAINTENANCE OF TRAFFIC

Long-term westbound detour to Cony/ Bridge Street and State Street.
Full closure to traffic during temporary structural support and replacement of pin assemblies and pin-and-hanger assemblies.
Maintain one sidewalk for pedestrian traffic across Memorial Bridge at all times.

UTILITIES

Bridge Lighting

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TYLin

PROJECT LOCATION:	Augusta Memorial Bridge (#5196) over Kennebec River. Located 0.02 Miles East of Gage Street on Route 201 in Augusta, Maine Latitude: 44°18'47.3"N, Longitude: 69°46'17.26"W
PROGRAM AREA:	Bridge Program
SCOPE OF WORK:	Bridge Improvement: Pin and gusset plate replacements at truss pin locations. Pin and hanger assembly replacements at truss pin and hanger locations.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
	COMMISSIONER:	8-19-26
CHIEF ENGINEER:		8-19-26

SIGNATURE:	P.E. NUMBER: 12572
DATE: August 7, 2026	DATE: 8-19-26

PROJECT INFORMATION	
PROGRAM: Bridge	PROJECT MANAGER: Brian Nichols
DESIGNER: T.Y. Lin International	CONSULTANT: Daniel Myers
PROJECT RESIDENT: T.Y. Lin International	CONTRACTOR: T.Y. Lin International
PROJECT COMPLETION DATE:	

AUGUSTA MEMORIAL BRIDGE	TITLE SHEET
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SHEET NUMBER
1
OF 34

FED * 2616400 WIN 026164.00

Date: 8/7/2026

Username:

Division: HIGHWAY

Filename: \\00\Bridge\MSTA\001_Title.dgn

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
201.23	Removing Single Tree Top Only	25	EA
201.24	Removing Stump	25	EA
504.8120	Structural Steel Repair	1	LS
504.84	Truss Pin Replacement	1	LS
504.8401	Truss Pin and Hanger Replacement	1	LS
506.144	Field Painting New and Existing Structural Steel	1	LS
506.17	Surface Preparation of Existing Structural Steel	1	LS
506.18	Containment and Pollution Control	1	LS
506.191	Disposal of Special Waste or Hazardous Waste Material	1	LS
524.30	Temporary Structural Support	8	EA
526.301	Portable Concrete Barrier, Type I	(3300 LF) 1	LS
527.34	Work Zone Crash Cushions	4	UN
618.141	Seeding Method Number 3	20	UN
619.14	Erosion Control Mix	360	CY
627.733	4" White or Yellow Painted Pavement Marking Line	2700	LF
627.77	Removing Existing Pavement Marking	1300	SF
627.78	Temporary 4" Painted Pavement Marking Line, White or Yellow	2700	LF
629.05	Hand Labor, Straight Time	25	HR
631.10	Air Compressor (Including Operator)	25	HR
631.11	Air Tool (Including Operator)	25	HR
631.12	All Purpose Excavator (Including Operator)	25	HR
631.172	Truck - Large (Including Operator)	25	HR
639.18	Field Office, Type A	1	EA
652.312	Type III Barricades	6	EA
652.33	Drum	100	EA
652.34	Cone	25	EA
652.35	Construction Signs	1600	SF
652.361	Maintenance of Traffic Control Devices	1	LS
652.38	Flaggers	880	HR
652.381	Traffic Officers	80	HR
652.41	Portable-Changeable Message Sign	13	EA
656.75	Temporary Soil Erosion and Water Pollution Control	1	LS
659.10	Mobilization	1	LS
660.21	On-The-Job Training	500	HR

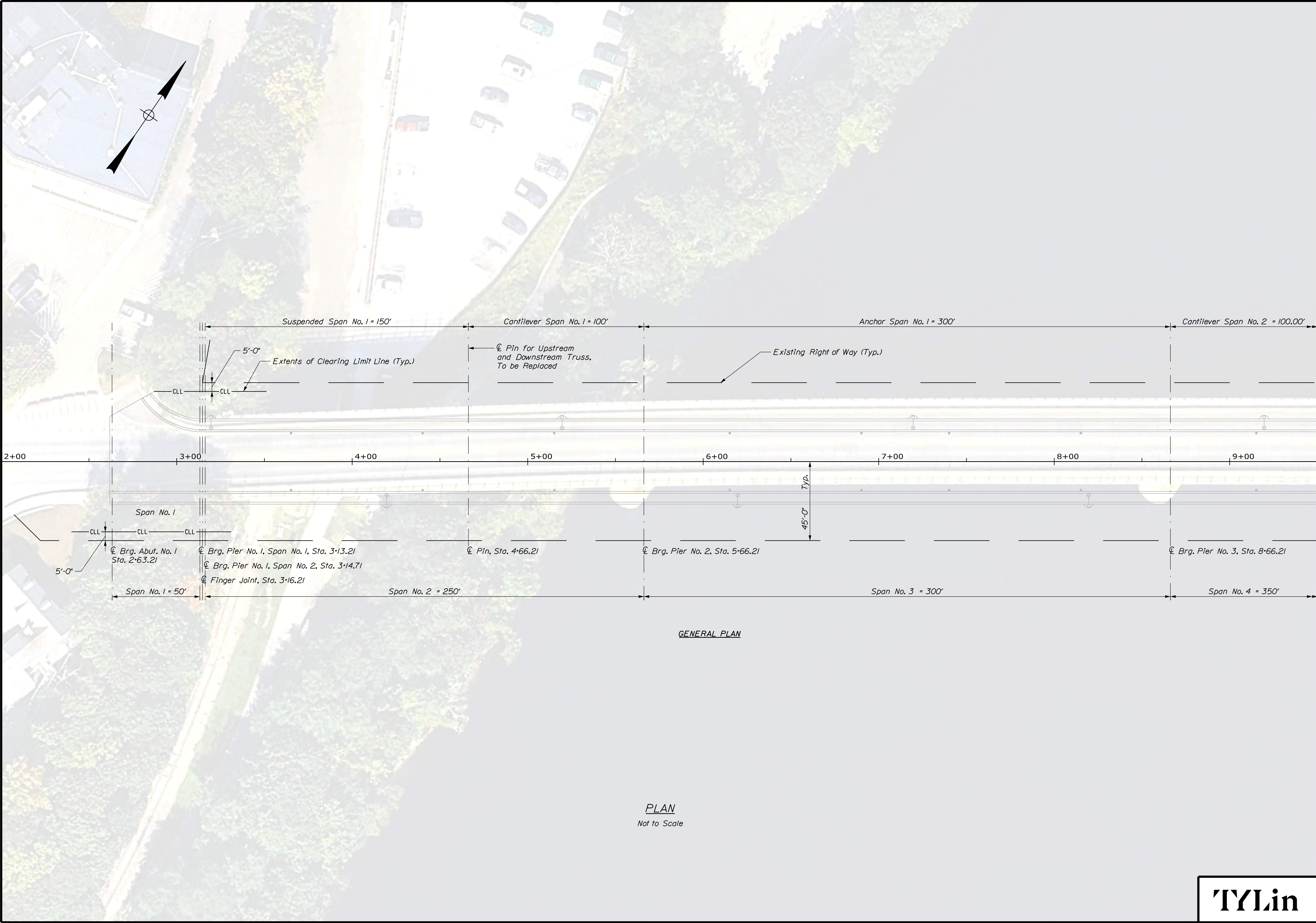
GENERAL NOTES:

1. For construction limits and right of way lines, refer to General Plan Sheet I of 3 through 3 of 3.
2. The clearing limits as shown on the plans are approximate. The exact limits will be established in the field by the Resident. Payment for clearing will be considered incidental to Contract items.
3. All utility facilities shall be adjusted by the respective utilities unless otherwise noted.
4. Erosion Control Mix may be substituted in those areas normally receiving loam and seed as directed by the Resident. Placement shall be in accordance with Standard Specifications Section 619, Mulch. Payment will be made under Pay Item 619.14, Erosion Control Mix.
5. Where it is apparent that runoff will cause continual erosion, Erosion Control Blanket, seeded gutters, riprap downspouts, and other gutters lined with Stone Ditch Protection shall be constructed after paving and shoulder work is completed. Payment will be made under the appropriate Contract items.
6. Project information referred to below may be accessed at the following MaineDOT web address: <http://www.maine.gov/mdot/contractors/>
7. The existing bridge plans may be accessed at the MaineDOT web address. The plans are reproductions of the original drawings as prepared for the construction of the bridge. It is very unlikely that the plans will show any construction field changes or any alterations which may have been made to the bridge during its life span.
8. Quantities included for pay items measured and paid for by Lump Sum are estimated quantities and are provided by MaineDOT for informational purposes only. Lump Sum pay items will be paid for at the Contract Bid amount, with no addition or reduction in payment to the Contractor if the actual final quantities are different from the MaineDOT provided estimated quantities, except as follows:

a. If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.

b. If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.

c. If a design change results in changes to estimated quantities for Lump Sum pay items, price adjustments will be made in accordance with Standard Specifications Section 109.7, Equitable Adjustments to Compensation and Time.
9. The existing bridge elements to be removed shall be removed by and become the property of the Contractor. The steel portions of the existing bridge may be coated with a lead-based paint system. The Contractor is responsible for the containment, proper management and disposal of all lead-contaminated hazardous waste generated by this project. The Contractor is responsible for implementing appropriate OSHA mandated personal protection standards related to this process. Once the existing bridge components are removed, the Contractor is solely responsible for the care, custody, and control of the components of the existing bridge and any hazardous waste generated as a result of the storage, recycling, or disposal of the bridge components, including lead-coated steel. The Contractor shall recycle or reuse the steel in accordance with the Maine Department of Environmental Protection's "Maine Hazardous Waste Management Regulations," Chapter 850. A copy of this regulation is available at MaineDOT's offices on Child Street in Augusta. Payment for all labor, materials, equipment, and other costs required to remove and dispose of the existing bridge components will be considered incidental to the 504 pay items.



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
2616400

BRIDGE #5196
WIN
26164.00
BRIDGE PLANS

DATE
9/2025

BY
J. LePage
D. Myers

PROJ. MANAGER
Brian Nichols

DESIGN-DETAILED
J. LePage

CHECKED-REVIEWED
D. Myers

DESIGN-DETAILED
J. LePage

DESIGN-DETAILED
D. Myers

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

FIELD CHANGES

SIGNATURE

P.E. NUMBER

DATE

AUGUSTA MEMORIAL BRIDGE
OVER KENNEBEC RIVER
AUGUSTA
KENNEBEC COUNTY

GENERAL PLAN 1 OF 3

SHEET NUMBER

3

OF 34

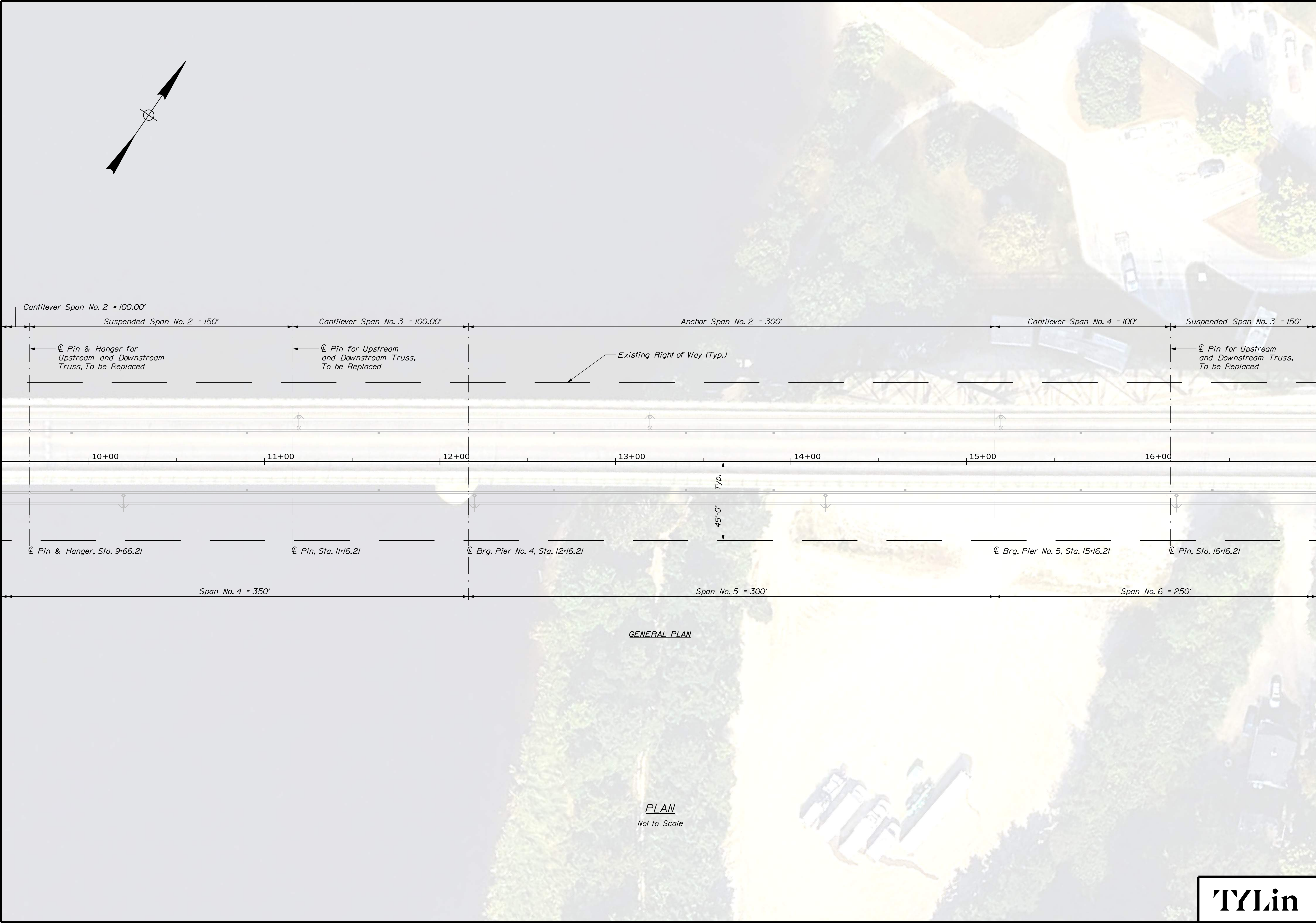
TYLin

Date:8/18/2026

Username:

Division: HIGHWAY

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STATE OF MAINE DEPARTMENT OF TRANSPORTATION	SIGNATURE		DATE
	2616400		9/2025
BRIDGE #5196	P.E. NUMBER		DATE
	WIN		26164.00
BRIDGE PLANS			

AUGUSTA MEMORIAL BRIDGE OVER KENNEBEC RIVER AUGUSTA KENNEBEC COUNTY	DESIGN-DETAILED	BY	DATE
	CHECKED-REVIEWED	J. LePage	9/2025
	DESIGN-DETAILED	D. Myers	
	REVISIONS 1		
	REVISIONS 2		
GENERAL PLAN 2 OF 3	REVISIONS 3		
	REVISIONS 4		
	FIELD CHANGES		

SHEET NUMBER
4
OF 34

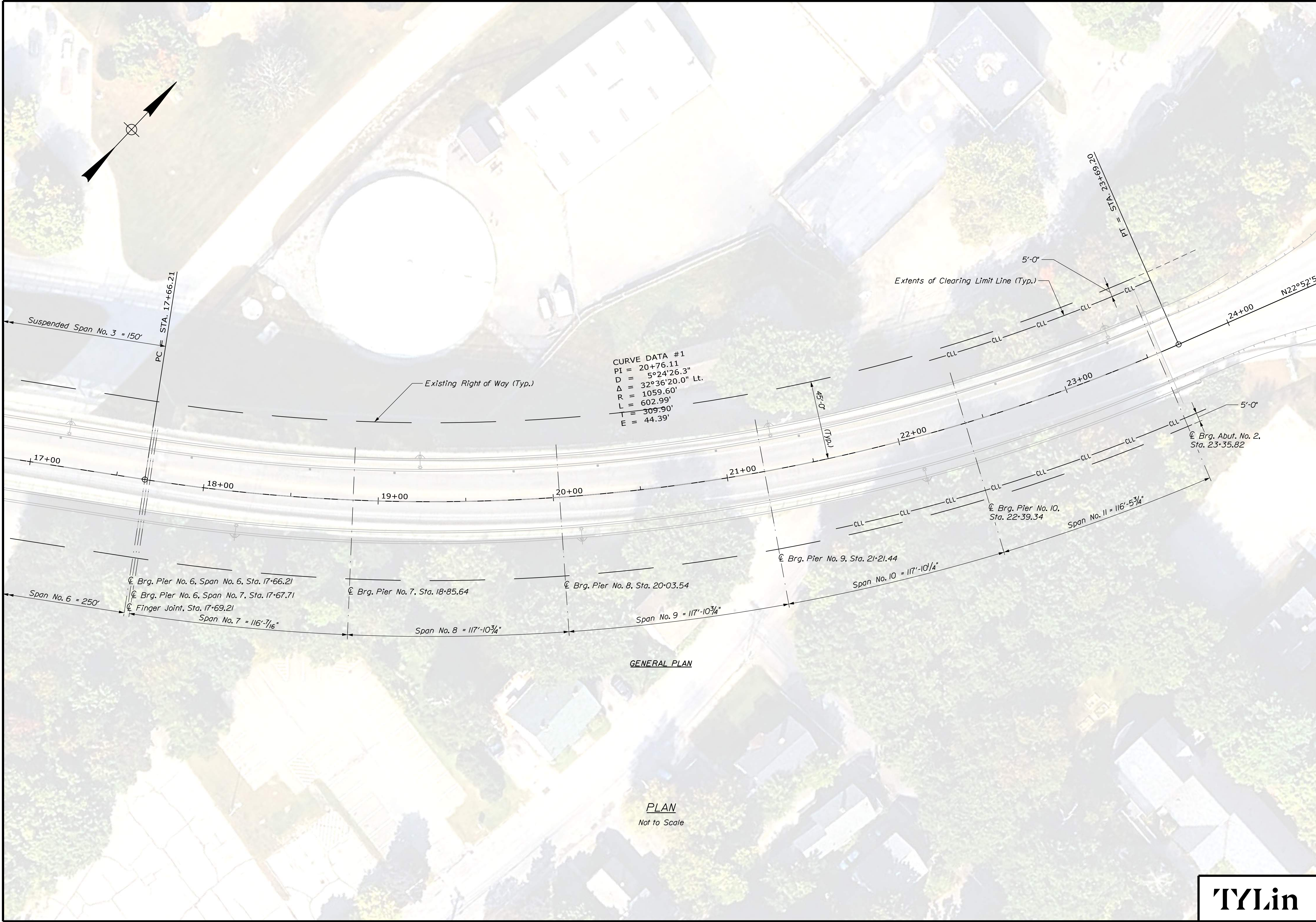
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Date: 8/18/2026

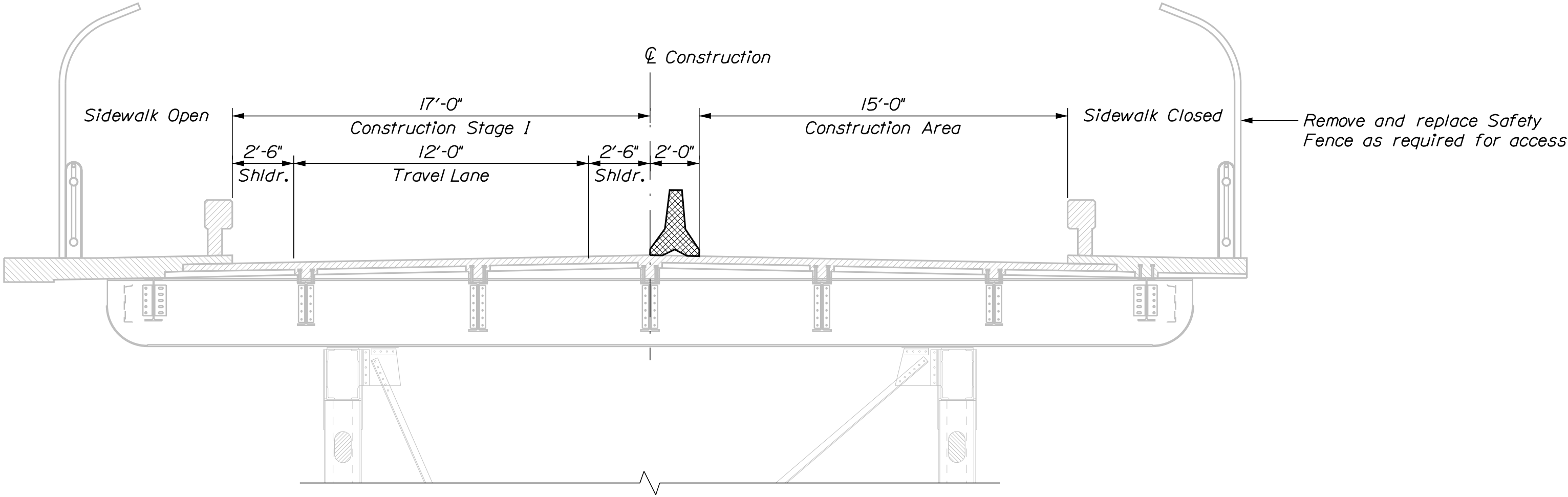
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Division: HIGHWAY

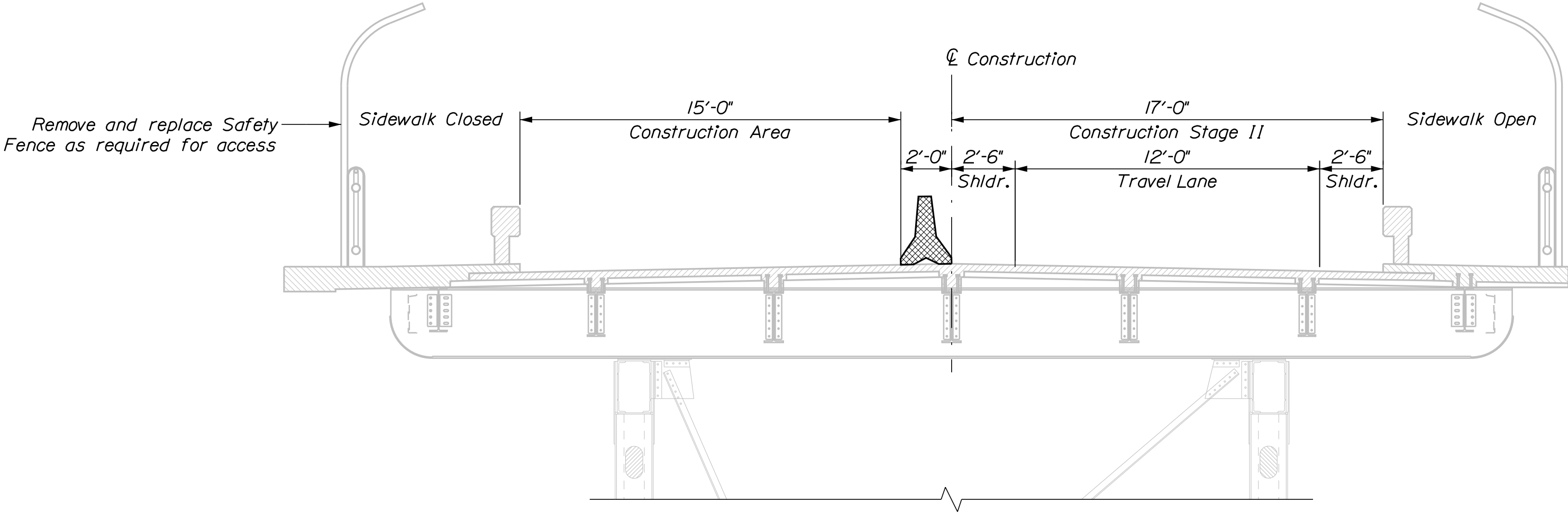
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STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
AUGUSTA MEMORIAL BRIDGE OVER KENNEBEC RIVER		2616400	
AUGUSTA KENNEBEC COUNTY		WIN 26164.00	
GENERAL PLAN 3 OF 3		BRIDGE #5196 BRIDGE PLANS	
SHEET NUMBER		5	
OF 34			
PROJ. MANAGER	BY	DATE	SIGNATURE
DESIGN-DETAILED	J. LePage	9/2025	
CHECKED-REVIEWED	D. Myers	9/2025	
DESIGN-DETAILED			
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

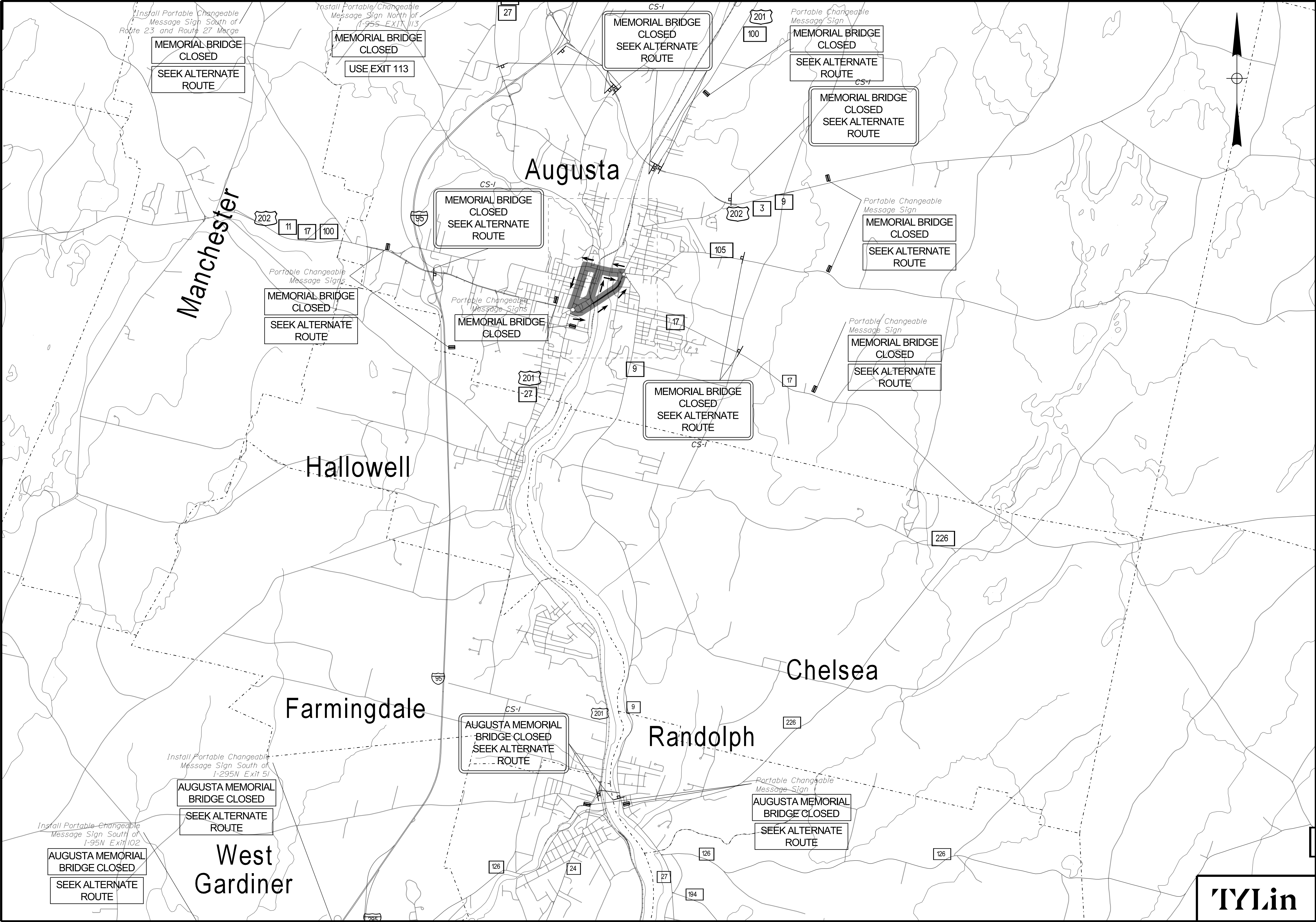


STAGE I



STAGE II

AUGUSTA MEMORIAL BRIDGE OVER KENNEBEC RIVER AUGUSTA KENNEBEC COUNTY				PROJ. MANAGER Brian Nichols		BY S. Morcom	DATE 3/2026	STATE OF MAINE	
STAGED CONSTRUCTION				DESIGN-DETAILED C. Taylor		S. Morcom	3/2026	DEPARTMENT OF TRANSPORTATION	
				CHECKED-REVIEWED D. Myers		D. Myers	3/2026		
				DESIGN2-DETAILED2				SIGNATURE	
				DESIGN3-DETAILED3					
				REVISIONS 1				P.E. NUMBER	
				REVISIONS 2					
				REVISIONS 3					
				REVISIONS 4					
				FIELD CHANGES				BRIDGE #5196	
								WIN	
								26164.00	
								BRIDGE PLANS	

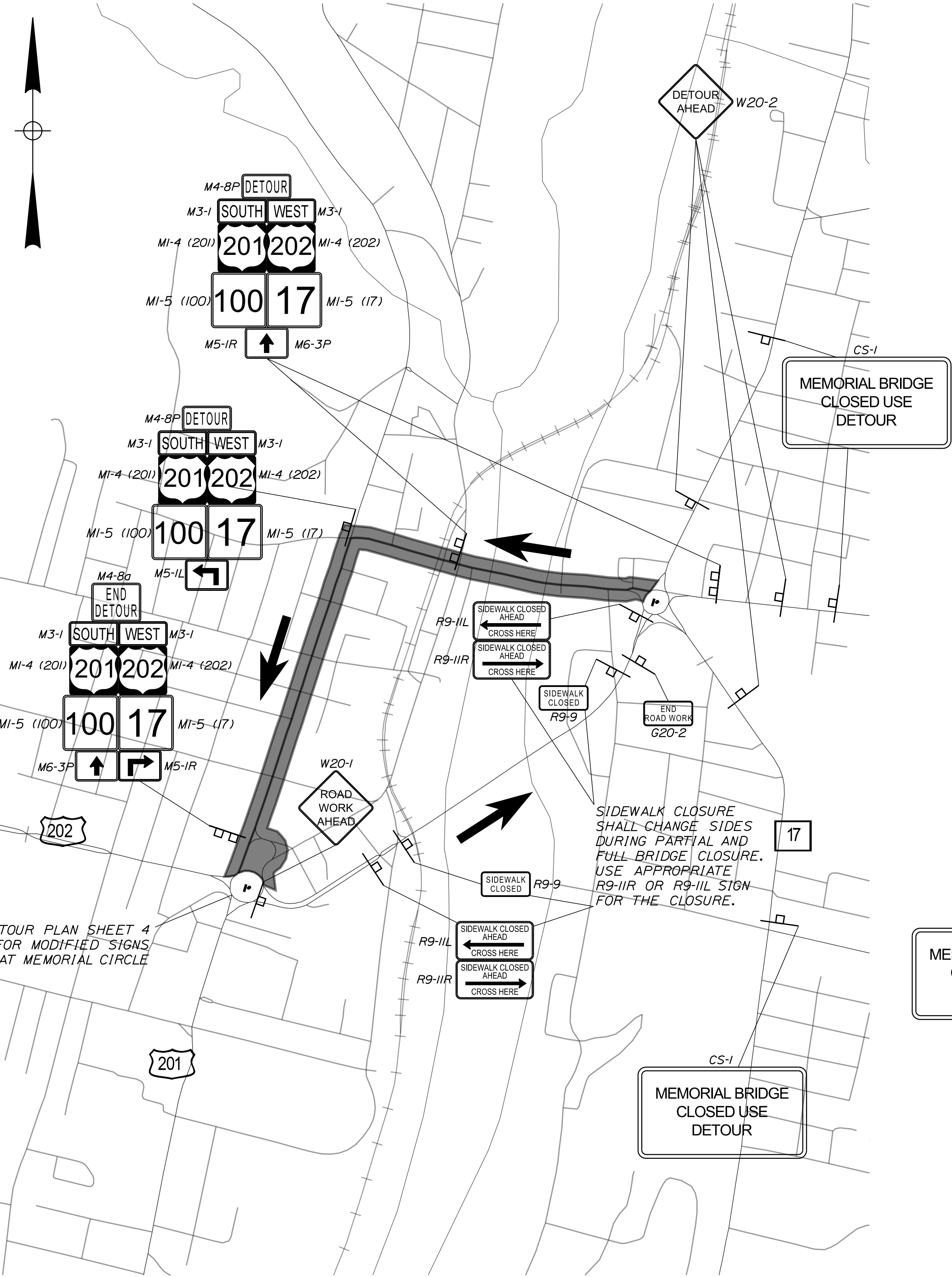


STATE OF MAINE DEPARTMENT OF TRANSPORTATION		2616400		WIN 26164.00		BRIDGE #5196		BRIDGE PLANS	
AUGUSTA MEMORIAL BRIDGE OVER KENNEBEC RIVER AUGUSTA KENNEBEC COUNTY		DETOUR PLAN 1 OF 4		SHEET NUMBER 7 OF 34		TYLin			
PROJ. MANAGER	Byron Nichols	BY	DATE	SIGNATURE		P.E. NUMBER		DATE	
DESIGN-DETAILED	N. Broderick		5/2026						
CHECKED-REVIEWED	T. Erico		5/2026						
DESIGN-DETAILED									
DESIGN-DETAILED									
REVISIONS 1									
REVISIONS 2									
REVISIONS 3									
REVISIONS 4									
FIELD CHANGES									

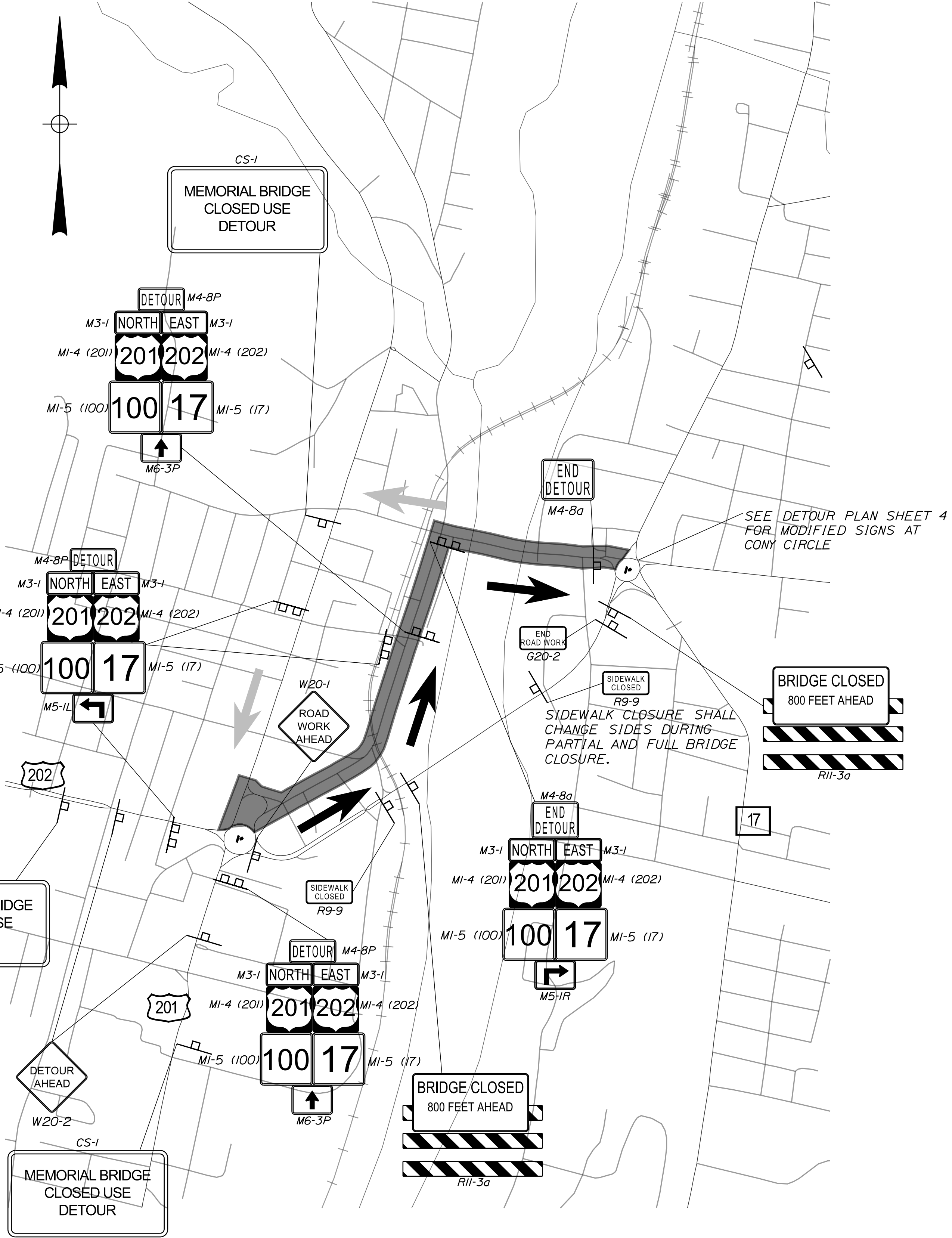
The traffic signal timing at the listed intersections shall be adjusted by the contractor in consultation with MaineDOT at the time of the implementation of the detours. This work shall be incidental to applicable 652 items. Prior bridge closures have indicated that signals responded well to dynamic maximum timing adjustments. Accordingly, monitoring of conditions is required and adjustment or implementation of dynamic maximum green times may be required for the detour movements. See "Intersections for Traffic Signal Timing" list.

INTERSECTIONS FOR TRAFFIC SIGNAL TIMING

1. Cony Street / Willow Street
2. Bridge Street / Water Street
3. Bridge Street / State Street
4. State Street / Winthrop Street



Westbound Detour Detail



Eastbound Detour Detail with Full Bridge Closure

*1. EXISTING SIGNS AT CONY CIRCLE AND MEMORIAL CIRCLE TO BE MODIFIED. SEE DETOUR PLAN SHEET 4

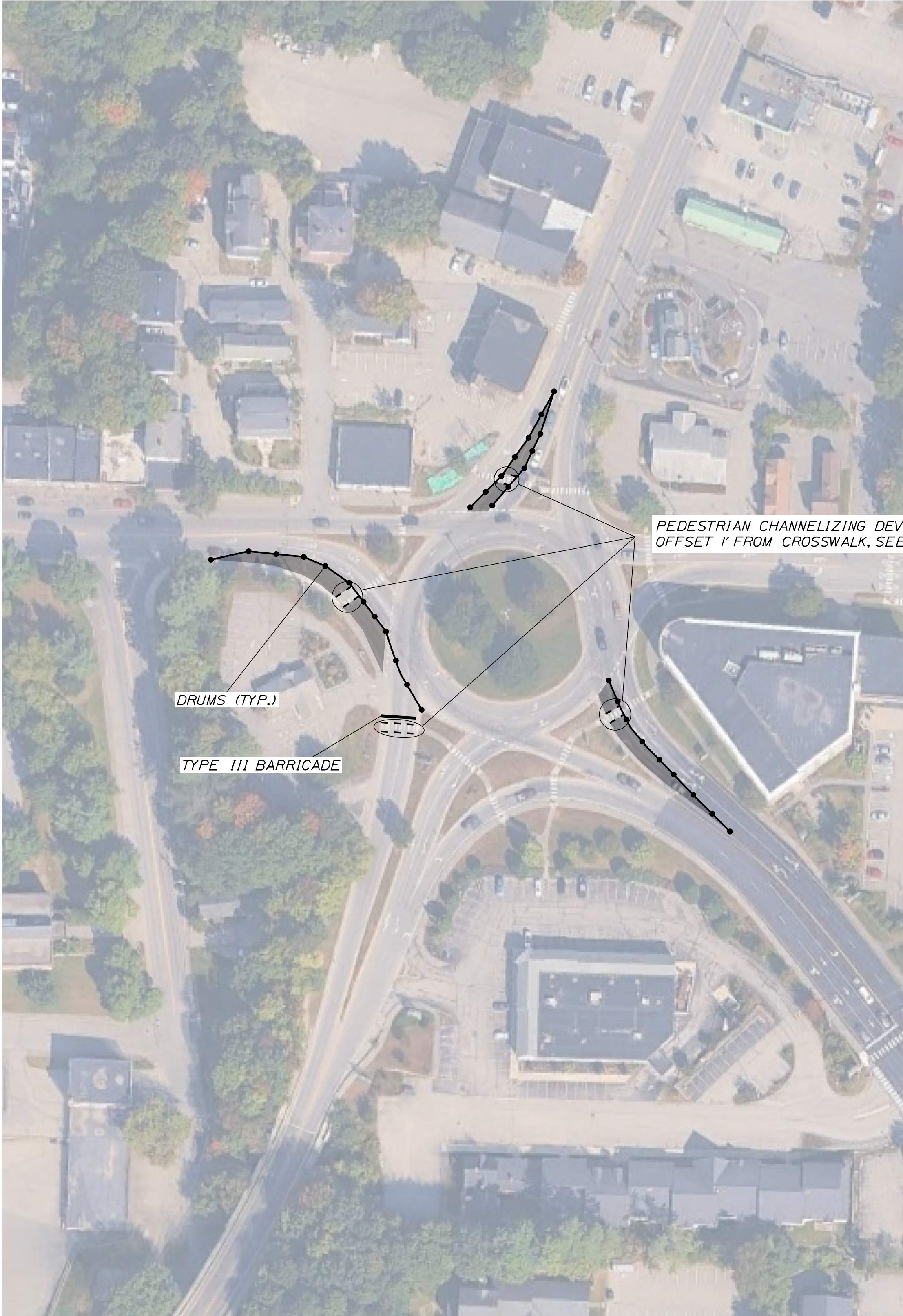
*1. EXISTING SIGNS AT CONY CIRCLE AND MEMORIAL CIRCLE TO BE MODIFIED. SEE DETOUR PLAN SHEET 4.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	2616400		BRIDGE #5196		BRIDGE PLANS		
	WIN		26164.00				
AUGUSTA MEMORIAL BRIDGE OVER KENNEBEC RIVER AUGUSTA KENNEBEC COUNTY						DETOUR PLAN 2 OF 4	
SHEET NUMBER						8	
OF 34							



MEMORIAL CIRCLE DETAIL
(THIS DETAIL IS FOR FULL CLOSURE ONLY)

LOCAL TRAFFIC ONLY SIGN AT MEMORIAL CIRCLE AND TYPE III BARRICADES SHALL ONLY BE INSTALLED DURING FULL BRIDGE CLOSURE.



CONY CIRCLE DETAIL
(THIS DETAIL IS FOR BOTH THE FULL CLOSURE AND LONG-TERM WESTBOUND DETOUR)

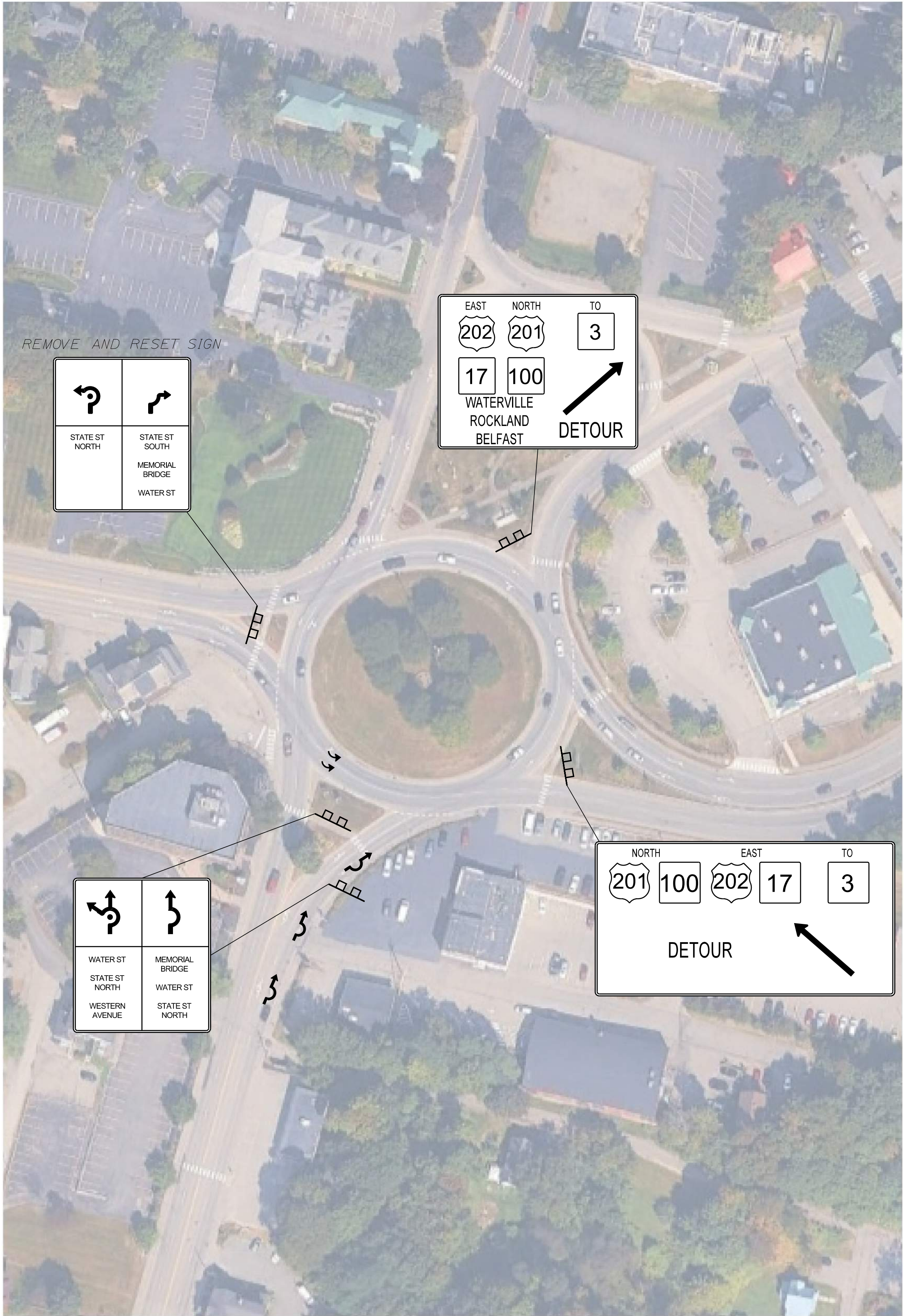
** PEDESTRIAN CHANNELIZING DEVICES SHALL MEET THE REQUIREMENTS OF MUTCD SECTION 6K.02 AND WILL BE CONSIDERED INCIDENTAL TO RELATED CONTRACT ITEMS.



AUGUSTA MEMORIAL BRIDGE OVER KENNEBEC RIVER AUGUSTA KENNEBEC COUNTY				PROJ. MANAGER Brian Nichols		BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION
DETOUR PLAN 3 OF 4				DESIGN-DETAILED N.Brovender		5/2026	SIGNATURE	
				CHECKED-REVIEWED T. Errico		5/2026		
				DESIGN2-DETAILED2				
				DESIGN3-DETAILED3				
				REVISIONS 1			P.E. NUMBER	
				REVISIONS 2				
				REVISIONS 3				
				REVISIONS 4				
FIELD CHANGES							DATE	BRIDGE #5196 WIN 26164.00 BRIDGE PLANS

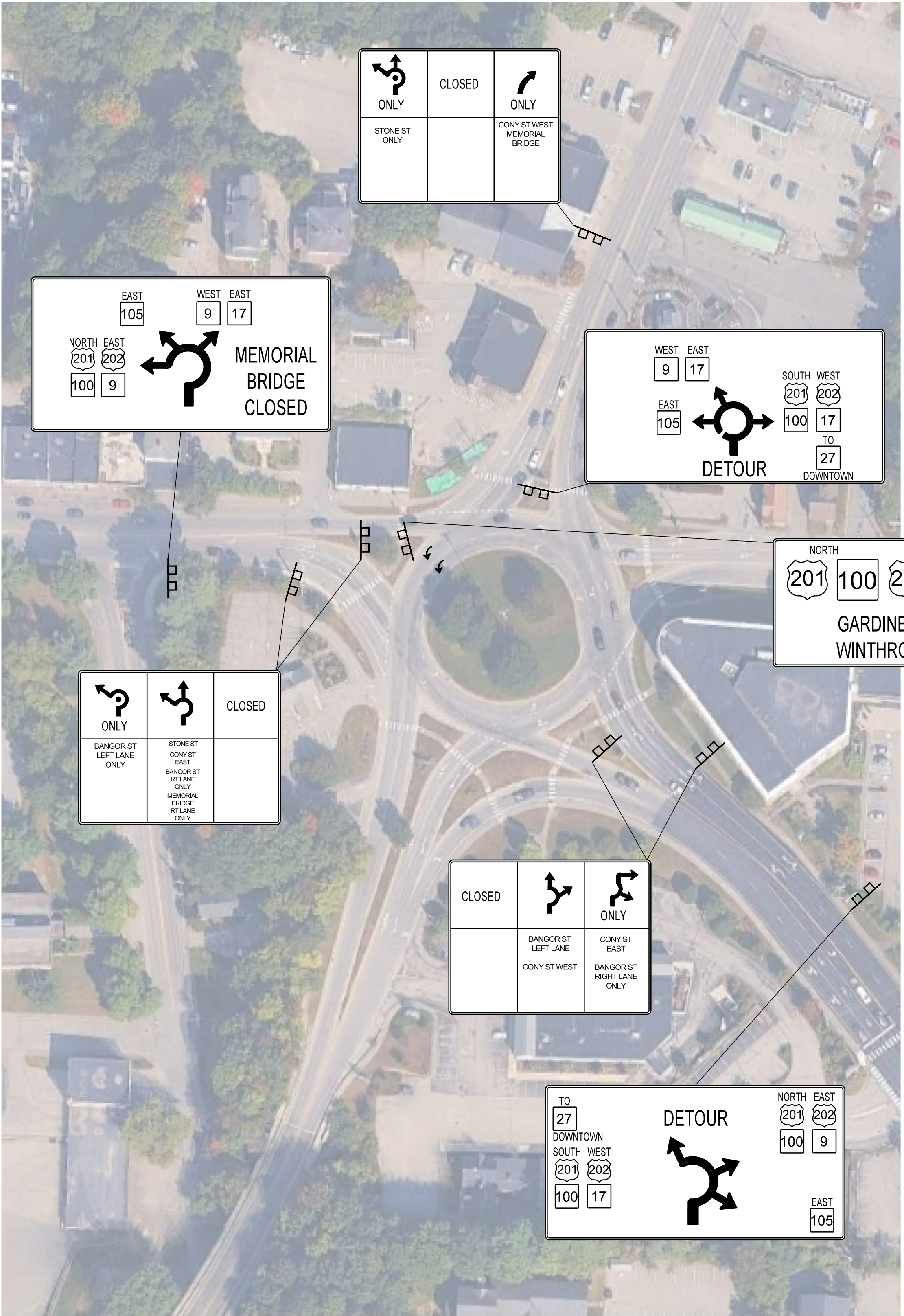
9

OF 34



MEMORIAL CIRCLE DETAIL
(THIS DETAIL IS FOR FULL CLOSURE ONLY)

EXISTING SIGNS AT MEMORIAL CIRCLE SHALL ONLY BE MODIFIED DURING FULL BRIDGE CLOSURE.



CONY CIRCLE DETAIL
(THIS DETAIL IS FOR BOTH THE FULL CLOSURE AND LONG-TERM WESTBOUND DETOUR)

AUGUSTA MEMORIAL BRIDGE OVER KENNEBEC RIVER AUGUSTA KENNEBEC COUNTY					PROJ. MANAGER		Byron Nichols	BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION		
DETOUR PLAN 4 OF 4					DESIGN-DETAILED		N.Brovender	5/2026	SIGNATURE			
					CHECKED-REVIEWED		T. Errico	5/2026				
					DESIGN2-DETAILED2							
					DESIGN3-DETAILED3							
					REVISIONS 1					P.E. NUMBER		
					REVISIONS 2							
					REVISIONS 3							
					REVISIONS 4					DATE		
					FIELD CHANGES							
SHEET NUMBER											BRIDGE #5196	
10											WIN	
OF 34											26164.00	
											BRIDGE PLANS	

DETOUR SIGN SUMMARY

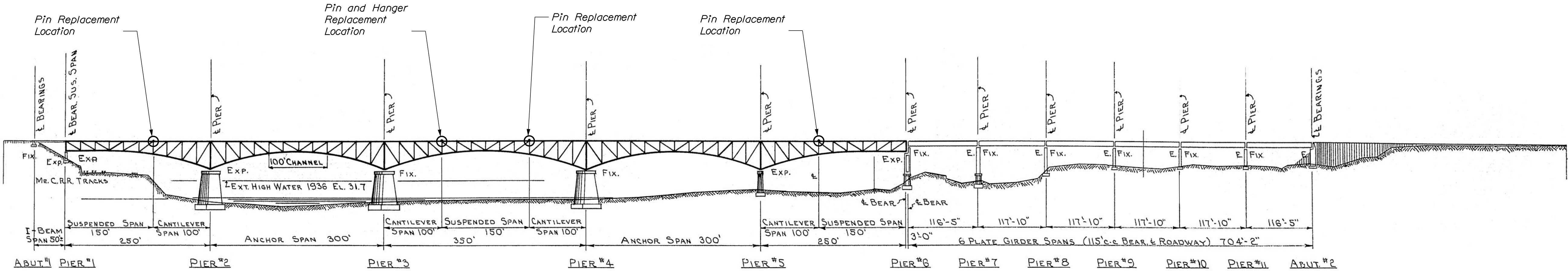
IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK- GROUND	LEGEND BORDER			
CS-1	60"	40"	MEMORIAL BRIDGE CLOSED SEEK ALTERNATE ROUTE	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2023 (TYP.)			5	WHITE	BLACK		16.67 (83.35)	
MI-5	24"	24"	17				10	WHITE	BLACK		4.00 (40)	
M3-1	24"	12"	100				10	WHITE	BLACK		4.00 (40)	
M3-3	24"	12"	SOUTH				4	WHITE	BLACK		2.00 (8)	
M4-8A	24"	18"	END DETOUR				3	ORANGE	BLACK		3.00 (9)	
M4-8P	24"	12"	DETOUR				9	ORANGE	BLACK		2.00 (18)	
M5-1L	21"	15"	↶				3	WHITE	BLACK		2.19 (6.57)	
M5-1R	21"	15"	↷				2	WHITE	BLACK		2.19 (4.38)	
M6-3P	21"	15"	↑				5	WHITE	BLACK		2.19 (10.95)	
R11-3a	60"	30"	BRIDGE CLOSED 800 FEET AHEAD				3	WHITE	BLACK		12.50 (37.50)	
W20-2	36"	36"	DETOUR AHEAD	↓	↓	↓	5	ORANGE	BLACK		9.00 (45)	
R3-1	15"	15"	⊘↷				1	WHITE	BLACK		1.56 (1.56)	

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES	
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK- GROUND	LEGEND BORDER				
CS-1	60"	40"	AUGUSTA MEMORIAL BRIDGE CLOSED SEEK ALTERNATE ROUTE	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2023 (TYP.)			2	WHITE	BLACK		16.67 (33.34)		
MI-4	24"	24"	202					10	WHITE	BLACK		4.00 (40)	
MI-4	24"	24"	201					10	WHITE	BLACK		4.00 (40)	
M4-8A	24"	18"	NORTH					5	WHITE	BLACK		3.00 (15)	
M4-8A	24"	18"	EAST					5	WHITE	BLACK		3.00 (15)	
M4-8P	24"	12"	WEST					4	WHITE	BLACK		2.00 (8)	
CS-1	60"	40"	MEMORIAL BRIDGE CLOSED USE DETOUR					6	WHITE	BLACK		16.67 (100)	
W20-1	36"	36"	ROAD WORK AHEAD					2	ORANGE	BLACK		9.00 (18)	
R9-9	24"	12"	SIDEWALK CLOSED					2	ORANGE	BLACK		2.00 (4)	
G20-2	24"	12"	END ROAD WORK					2	ORANGE	BLACK		2.00 (4)	
R11-3a	60"	30"	BRIDGE CLOSED 1500 FEET AHEAD	↓	↓	↓		1	WHITE	BLACK		12.50 (12.50)	

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	2616400		WIN 26164.00		BRIDGE PLANS	
	SIGNATURE		P.E. NUMBER		DATE	
AUGUSTA MEMORIAL BRIDGE OVER KENNEBEC RIVER AUGUSTA KENNEBEC COUNTY			DETOUR PLAN SIGN SUMMARY 1 OF 2			SHEET NUMBER
11			OF 34			

DETOUR SIGN SUMMARY

IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)				NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES		
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	BACK- GROUND		LEGEND BORDER						
	66"	72"	STATE ST NORTH STATE ST SOUTH MEMORIAL BRIDGE WATER ST							1	ORANGE	BLACK		33 (33)	
	60"	72"	WATER ST STATE ST NORTH MEMORIAL BRIDGE WATER ST WESTERN AVENUE STATE ST NORTH							2	ORANGE	BLACK		30 (60)	
	156"	120"	TO 27 DOWNTOWN SOUTH WEST 201 202 100 17 DETOUR NORTH EAST 201 202 100 9 EAST 105							1	ORANGE	BLACK		130 (130)	
	174"	108"	EAST 105 WEST EAST 9 17 NORTH EAST 201 202 100 9 DETOUR MEMORIAL BRIDGE CLOSED							1	ORANGE	BLACK		135 (135)	
	156"	120	WEST EAST 9 17 EAST 105 SOUTH WEST 201 202 100 17 TO 27 DOWNTOWN DETOUR							1	ORANGE	BLACK		130 (130)	
	150"	60"	NORTH 201 100 EAST 202 17 GARDINER WINTHROP TO SOUTH 95 DETOUR							1	ORANGE	BLACK		62.5 (62.5)	
	150"	72"	NORTH 201 100 EAST 202 17 DETOUR TO 3							1	ORANGE	BLACK		78 (78)	
	72"	72"	EAST 202 17 NORTH 201 100 WATVILLE ROCKLAND BELFAST DETOUR TO 3							1	ORANGE	BLACK		36 (36)	



GENERAL ELEVATION
Scale 1"=100'-0"
Looking Upstream

STRUCTURAL STEEL NOTES:

- All new bolts shall be 7/8" ASTM F3125 Grade A325, Type I placed in existing 15/16" rivet holes or new field drilled 15/16" holes unless otherwise specified. Bolt threads shall be excluded from the plate shear planes.
- The Contractor shall be responsible to verify presence, condition, and dimensions of existing structural components. Dimensions, angles, and number of rivets are for general reference only. They have been taken from information contained in the original construction drawings and are not guaranteed. It is unlikely that the plans will show all construction field changes or any alterations which may have been made to the Bridge during its life span. The existing conditions and measurements shall be verified prior to starting the work. When shop drawings based on field measurements are submitted for review, the field measurements shall also be submitted for reference.
- The bridge shall be closed to vehicular traffic for the full duration during which a Temporary Structural Support system is supporting any portion of the bridge.
- Extreme care shall be taken to not damage any existing steel members which are to remain. Any damage shall be reported immediately to the Resident and repaired as directed.
- Welding and test methods shall be in accordance with ANSI/AASHTO/AWS-D1.5 Bridge Welding Code unless otherwise noted. Temporary welds will be permitted on the gusset and pin plates to provide support for equipment and machinery necessary for Pin removal and Field Line Boring operations and shall be included as part of the submittal process.
- Prior to commencement of Steel rehabilitation work for the Truss Pin and Pin and Hanger Replacement, the Contractor shall remove paint in the areas of work and immediately adjacent to the work, as approved by the Resident, and provide lead abatement and clean existing steel in accordance with Special Provision 506.
- Following completion of the Truss Pin and Pin and Hanger Replacement the new and existing steel shall receive protective coating in accordance with Special Provision 506.
- Keep unnecessary equipment and stored material off the suspended truss span during the full period when a Temporary Structural Support is supporting that suspended span.

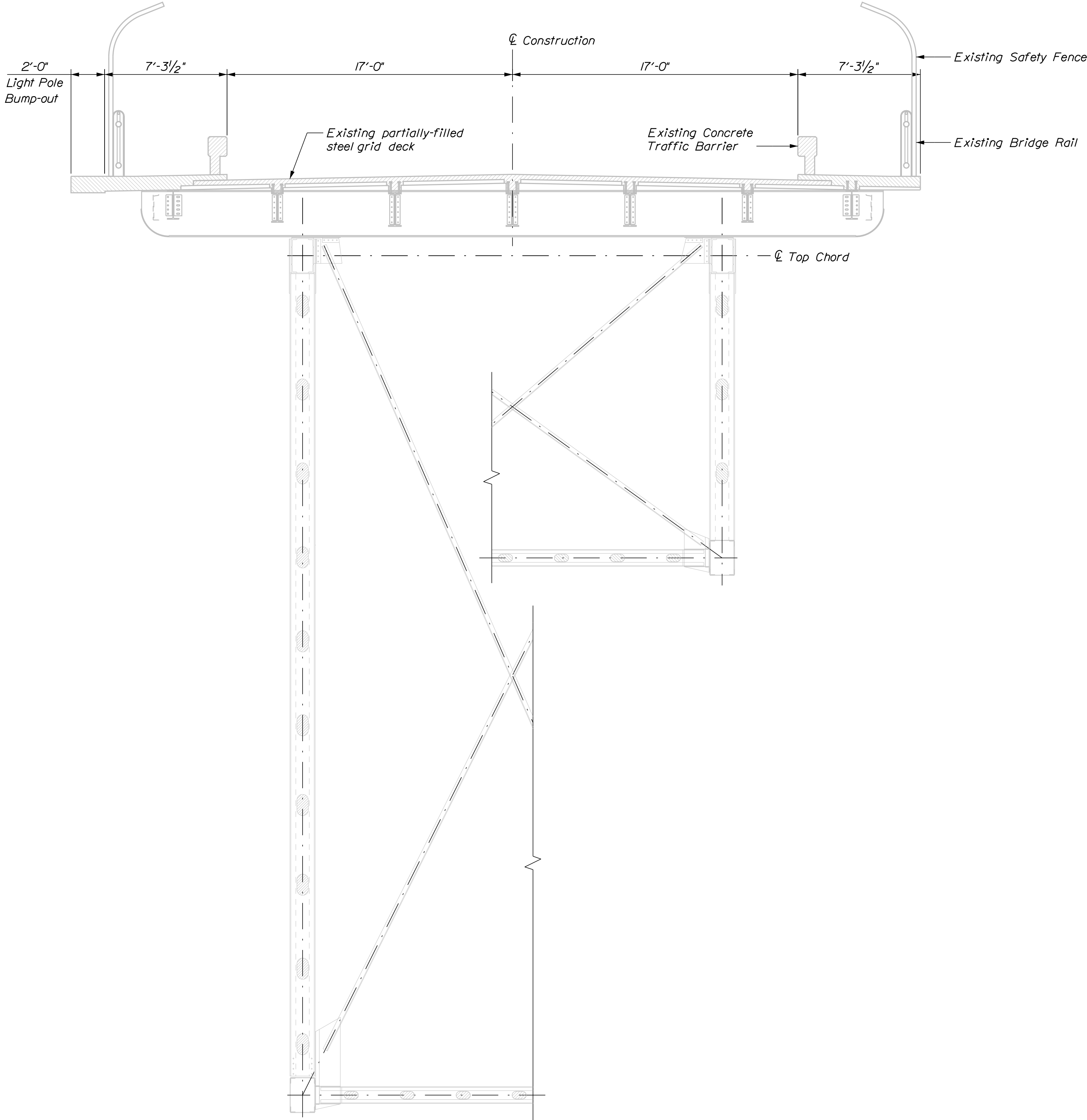
ANTICIPATED CONSTRUCTION SEQUENCE - PIN LOCATIONS

- Remove rivets and replace with temporary bolts prior to traffic closure period.
- Install temporary truss support system through the deck.
- Install strain gauges to verify load transfer.
- Close bridge to vehicular traffic.
- Stress lifting jacks to relieve force on pin.
- Remove pin.
- Remove and replace pin plates and upper catcher plates as shown in the Plans.
- Bore pin hole through existing and proposed plates.
- Install pin.
- Release jacks and remove temporary support.
- Open bridge to vehicular traffic.

ANTICIPATED CONSTRUCTION SEQUENCE - PIN & HANGER LOCATIONS

- Install temporary truss support system through the deck.
- Install strain gauges to verify load transfer.
- Close bridge to vehicular traffic.
- Stress lifting jacks to relieve force on pin.
- Remove hangers, pins, and bushings.
- Adjust jacks to vertically align the suspended span with the anchor span.
- Bore bushing hole through existing and proposed plates.
- Install bushings, hangers and pins.
- Release jacks and remove temporary support.
- Open bridge to vehicular traffic.

AUGUSTA MEMORIAL BRIDGE OVER KENNEBEC RIVER AUGUSTA KENNEBEC COUNTY				PROJ. MANAGER		Byron Nichols	BY	DATE	STATE OF MAINE	
ELEVATION AND STRUCTURAL STEEL NOTES				DESIGN-DETAILED		C. Taylor	D. Myers	3/2026	DEPARTMENT OF TRANSPORTATION	
				CHECKED-REVIEWED		D. Myers	C. Taylor	3/2026		
				DESIGN2-DETAILED2					SIGNATURE	
				DESIGN3-DETAILED3						
				REVISIONS 1					P.E. NUMBER	
				REVISIONS 2						
				REVISIONS 3						
				REVISIONS 4						
				FIELD CHANGES					DATE	
									BRIDGE #5196	
									WIN	
									26164.00	
									BRIDGE PLANS	



TRANSVERSE SECTION

STATE OF MAINE DEPARTMENT OF TRANSPORTATION 2616400						
					SIGNATURE	
					P.E. NUMBER	
					DATE	
AUGUSTA MEMORIAL BRIDGE OVER KENNEBEC RIVER AUGUSTA KENNEBEC COUNTY TRANSVERSE SECTION	PROJ. MANAGER	Brian Nichols	BY	DATE		
	DESIGN-DETAILED	C. Taylor	S. Macdon	03/2026		
	CHECKED-REVIEWED	D. Myers	D. Myers	03/2026		
	DESIGN-DETAILED					
	REVISIONS 1					
	REVISIONS 2					
SHEET NUMBER 14 OF 34	REVISIONS 3					
	REVISIONS 4					
				FIELD CHANGES		
				BRIDGE #5196	WIN	26164.00
				BRIDGE PLANS		



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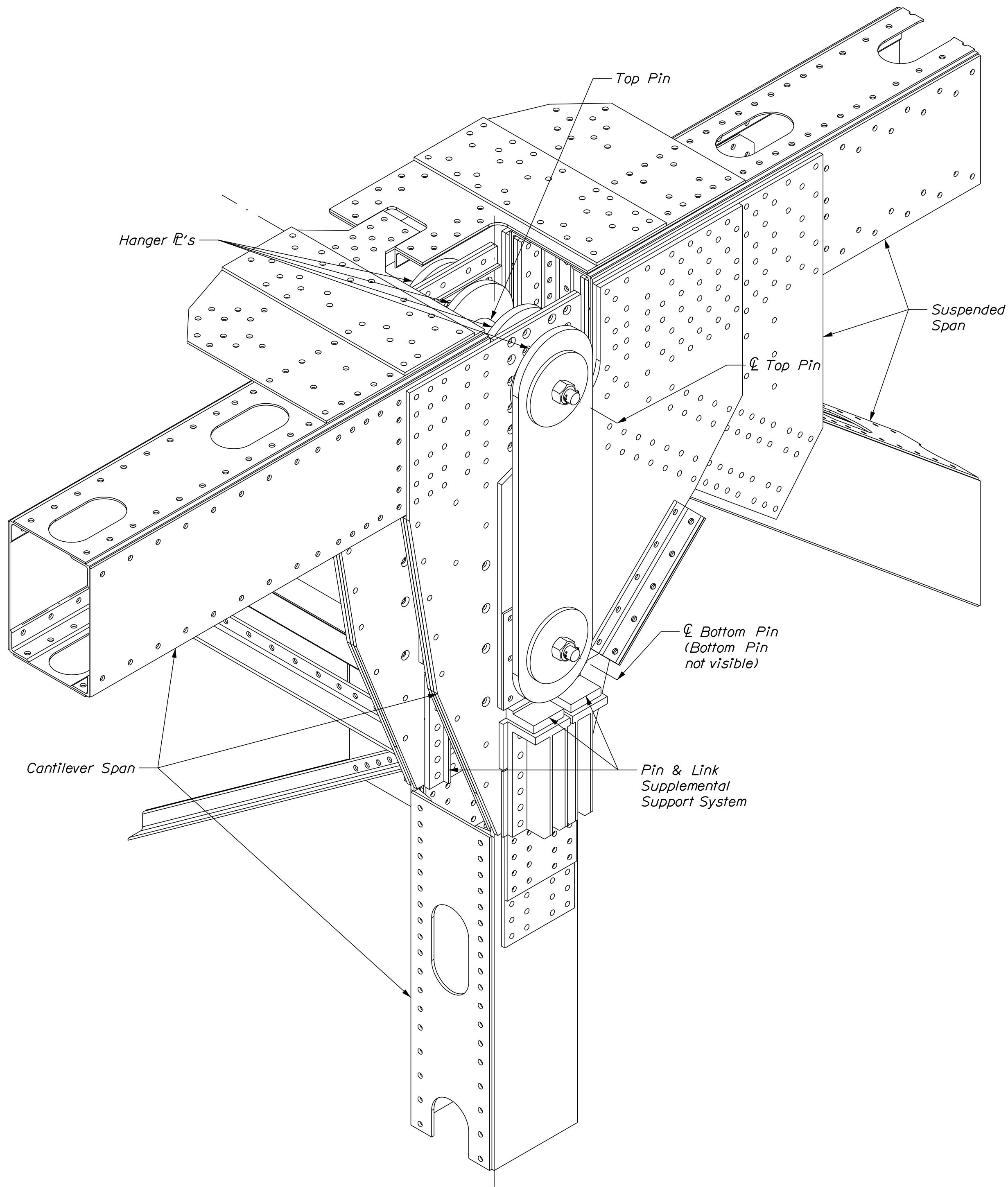
SHEET NUMBER

15

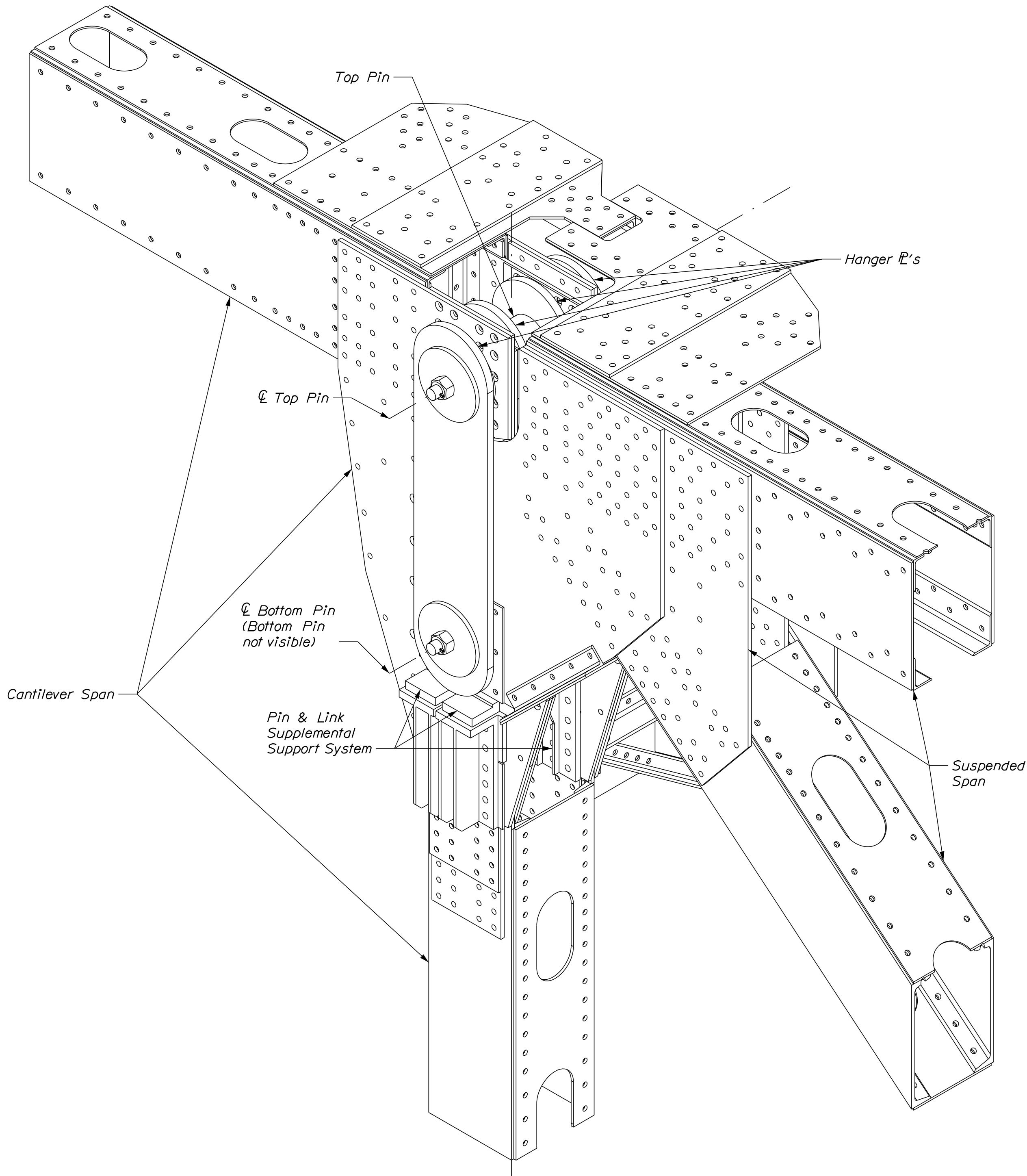
OF 34

AUGUSTA MEMORIAL BRIDGE
OVER KENNEBEC RIVER
AUGUSTA KENNEBEC COUNTY
ISOMETRIC VIEW OF
PIN & HANGER CONNECTION

BRIDGE #5196	WIN	26164.00	2616400
BRIDGE PLANS			



EXISTING PIN & HANGER JOINT ISOMETRIC VIEW
 (View from Exterior, Top Right Side of Pin Connection)



EXISTING PIN & HANGER JOINT ISOMETRIC VIEW
 (View from Exterior, Top Left Side of Pin Connection)

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2616400		WIN		26164.00		BRIDGE #5196		BRIDGE PLANS	
AUGUSTA MEMORIAL BRIDGE		OVER KENNEBEC RIVER		KENNEBEC COUNTY		AUGUSTA		ISOMETRIC VIEWS OF EXISTING		PIN & HANGER CONNECTION		SHEET NUMBER	
PROJ. MANAGER		BY		DATE		SIGNATURE		P.E. NUMBER		DATE			
DESIGN-DETAILED		J. LEGERE		2/2026									
CHECKED-REVIEWED		D. MYERS		2/2026									
DESIGN-DETAILED													
REVISIONS 1													
REVISIONS 2													
REVISIONS 3													
REVISIONS 4													
FIELD CHANGES													
												16	
												OF 34	

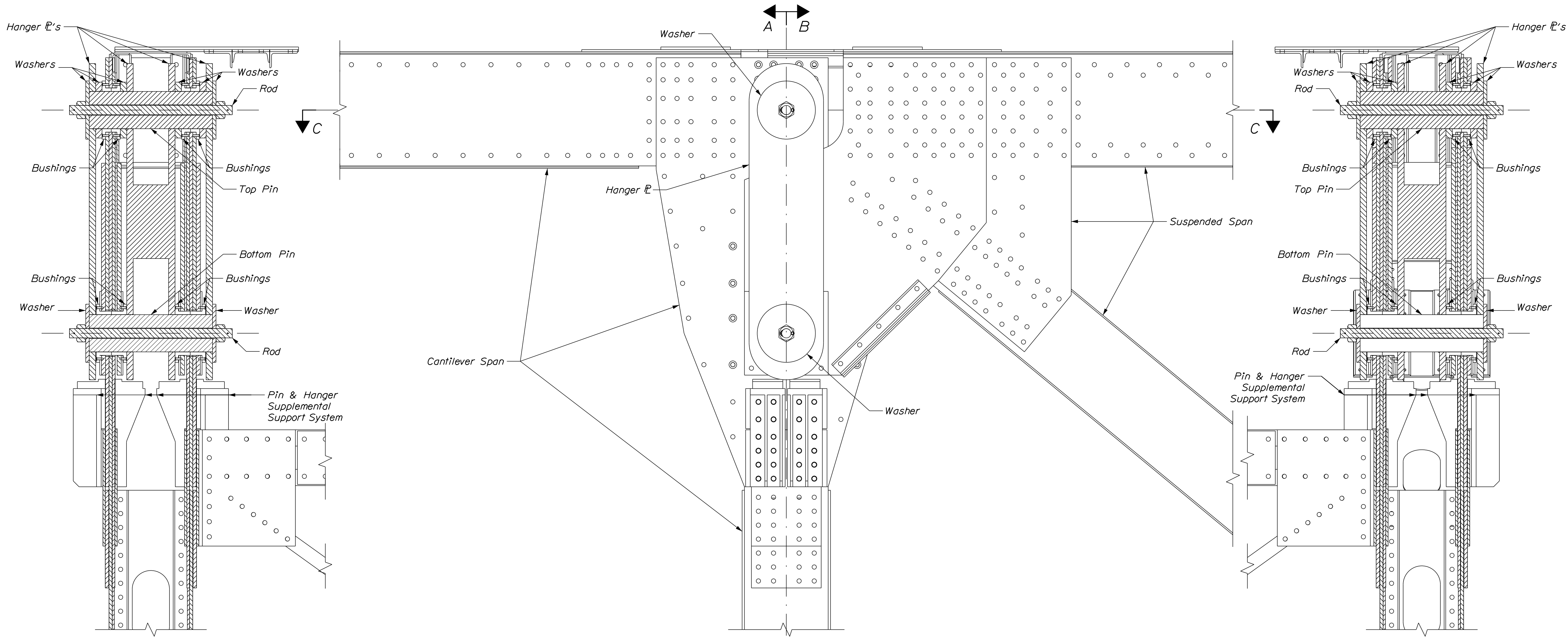
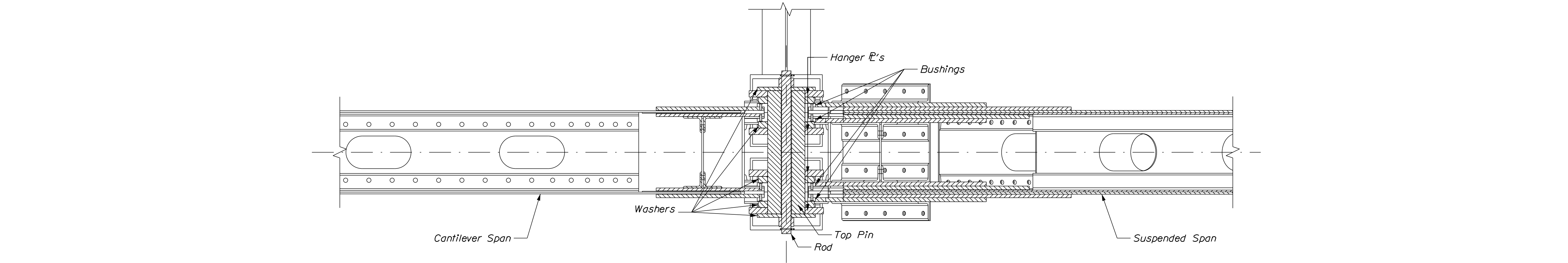


SHEET NUMBER 17 OF 34		AUGUSTA MEMORIAL BRIDGE OVER KENNEBEC RIVER AUGUSTA KENNEBEC COUNTY				PROJ. MANAGER	Brian Nichols	BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION		
		DESIGN-DETAILED	J. LEGERE	J. LEGERE	2/2006	SIGNATURE						
ISOMETRIC VIEWS OF PROPOSED PIN & HANGER CONNECTION				CHECKED-REVIEWED	D. MYERS		D. MYERS	2/2006				
				DESIGN2-DETAILED2					P.E. NUMBER 2616400			
				DESIGN3-DETAILED3								
				REVISIONS 1								
				REVISIONS 2				DATE				
				REVISIONS 3								
				REVISIONS 4								
				FIELD CHANGES								
										BRIDGE #5196	WIN 26164.00	BRIDGE PLANS

Date:8/18/2026

Username:

Filename: ... \015_Pin_and_Hanger_Joint_Details.dgnDivision: HIGHWAY



SECTION A-A
(Looking towards anchor span)

SECTION B-B
(Looking towards suspended span)

STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
2616400	
WIN	BRIDGE #5196
26164.00	BRIDGE PLANS

DATE	2/2026	BY	J. LEBRE	PROJ. MANAGER	Brian Nichols
SIGNATURE		CHECKED	D. MYERS	DESIGN-DETAILED	J. LEBRE
P.E. NUMBER		DESIGNED	D. MYERS	DESIGN-DETAILED	D. MYERS
DATE		REVISIONS	1	DESIGN-DETAILED	
		REVISIONS	2	DESIGN-DETAILED	
		REVISIONS	3	DESIGN-DETAILED	
		REVISIONS	4	DESIGN-DETAILED	
		FIELD CHANGES			

AUGUSTA MEMORIAL BRIDGE OVER KENNEBEC RIVER AUGUSTA KENNEBEC COUNTY	EXISTING PIN & HANGER CONNECTION
--	-------------------------------------

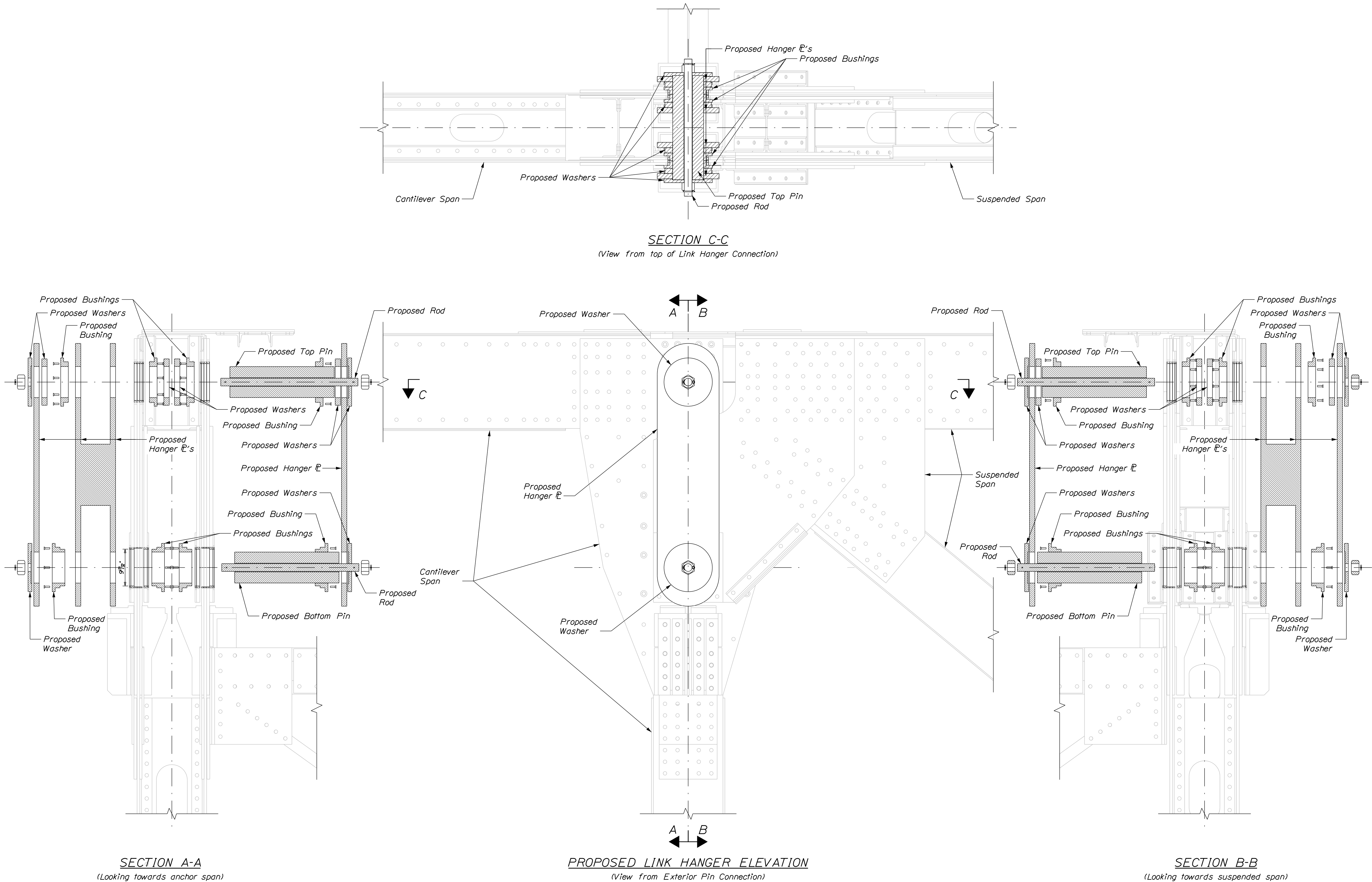
SHEET NUMBER	18
	OF 34

TYLin

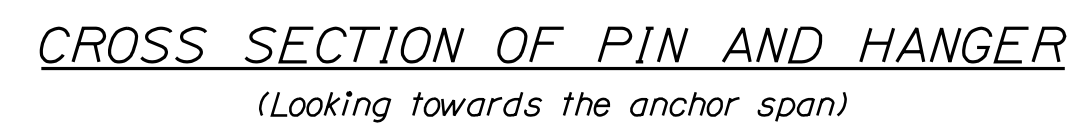
Date:8/18/2026

Username:

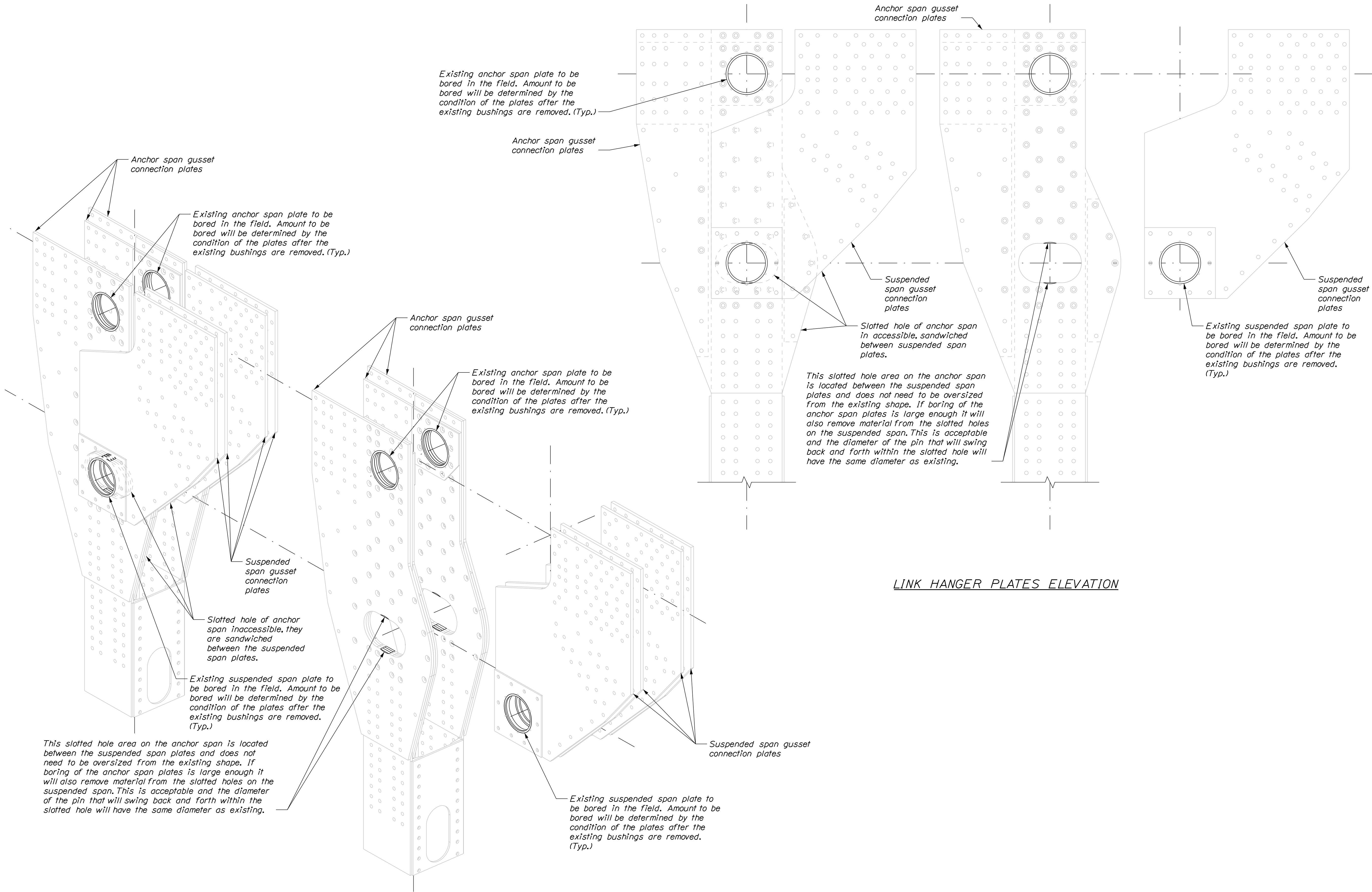
Filename: ... \015_Pin_and_Hanger_Joint_Details.dgn Division: HIGHWAY



DATE	BY	PROJ. MANAGER	CHECKED	DESIGNED	DESIGNED	REVISIONS	REVISIONS	REVISIONS	FIELD CHANGES	SIGNATURE	P.E. NUMBER	DATE
2/2026	J. LEBLANC	Brian Nichols	J. LEBLANC	D. MYERS	D. MYERS	DESIGNED	DESIGNED	DESIGNED	DESIGNED			
2/2026	D. MYERS					REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4			



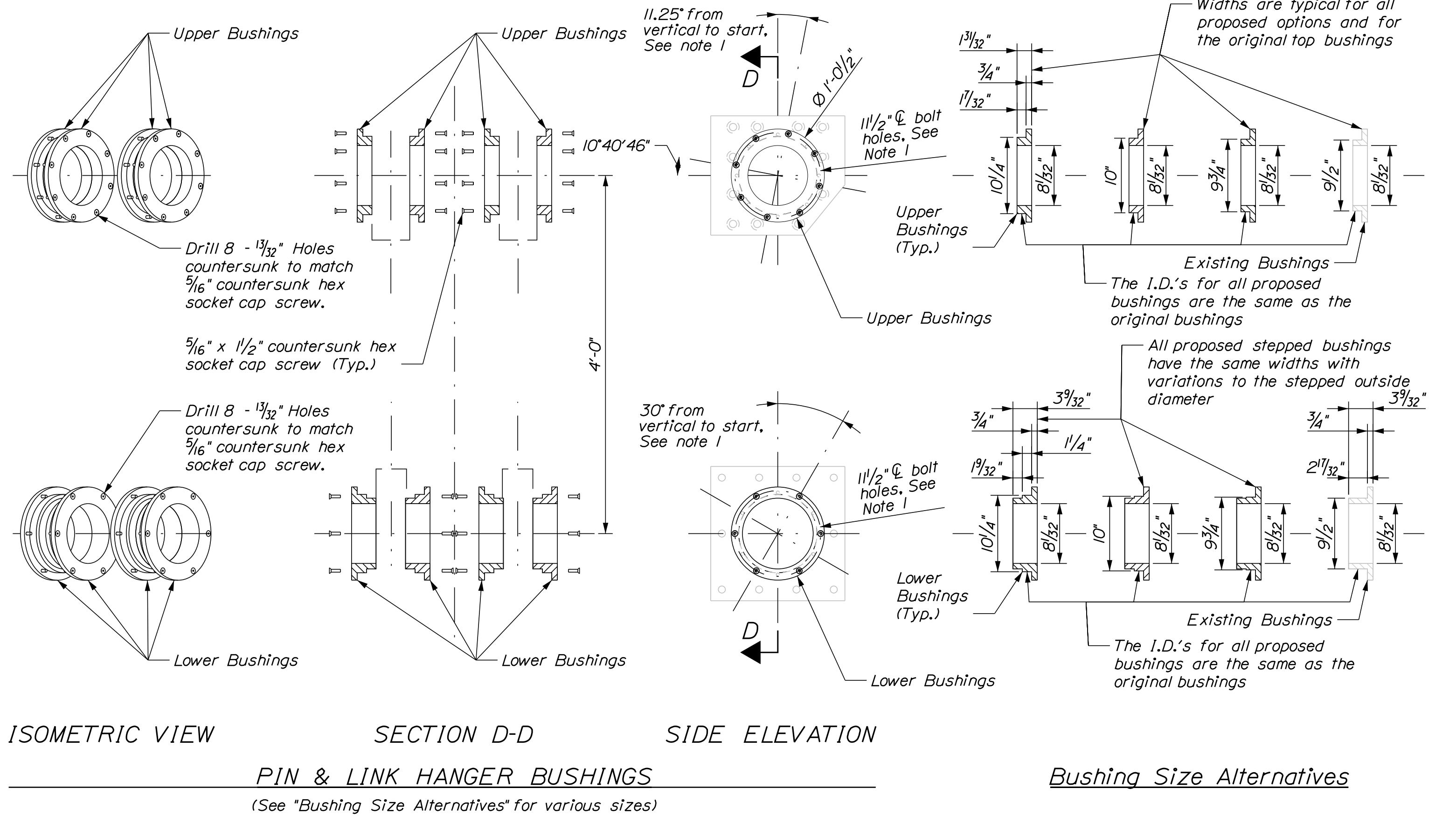
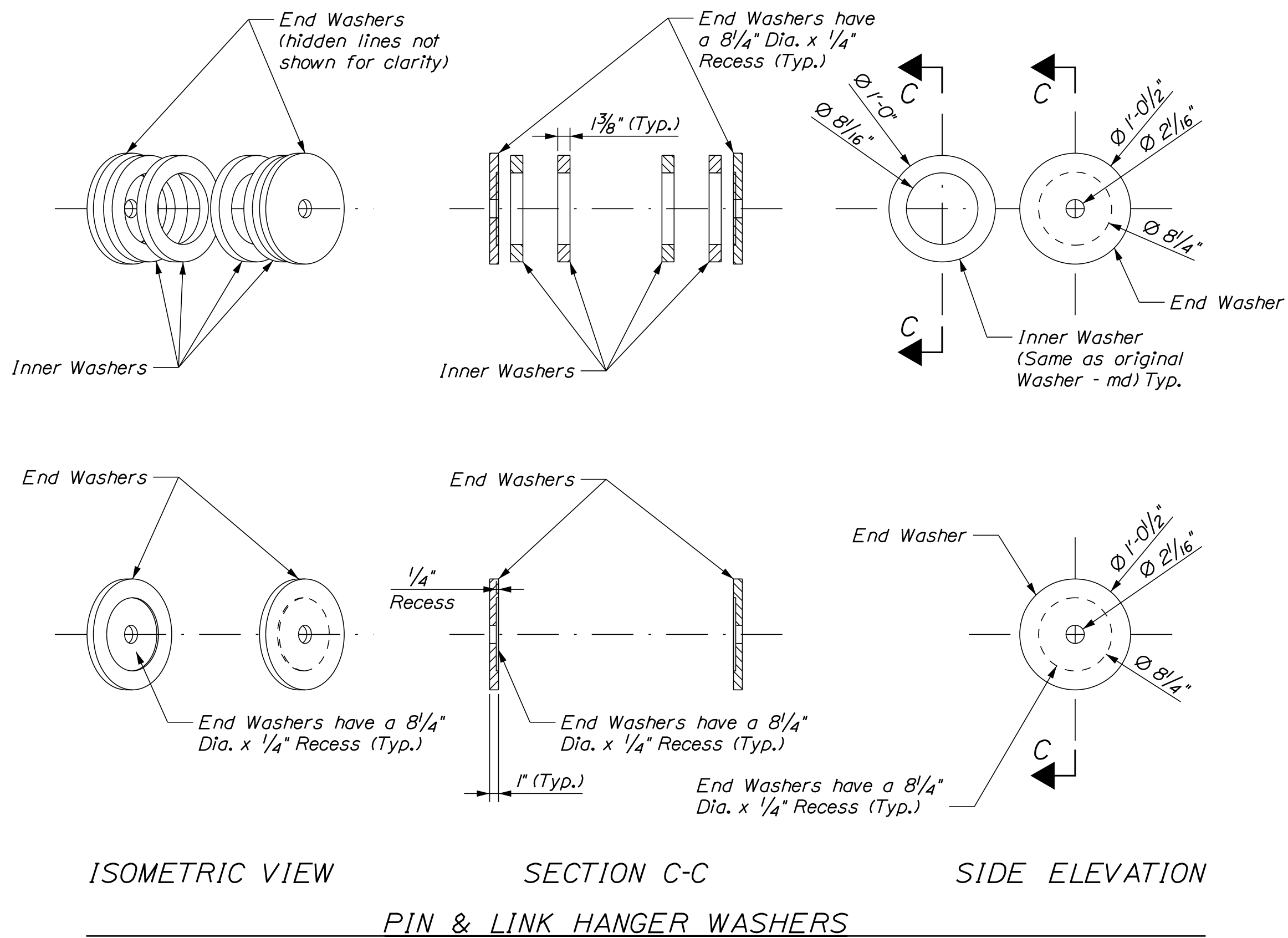
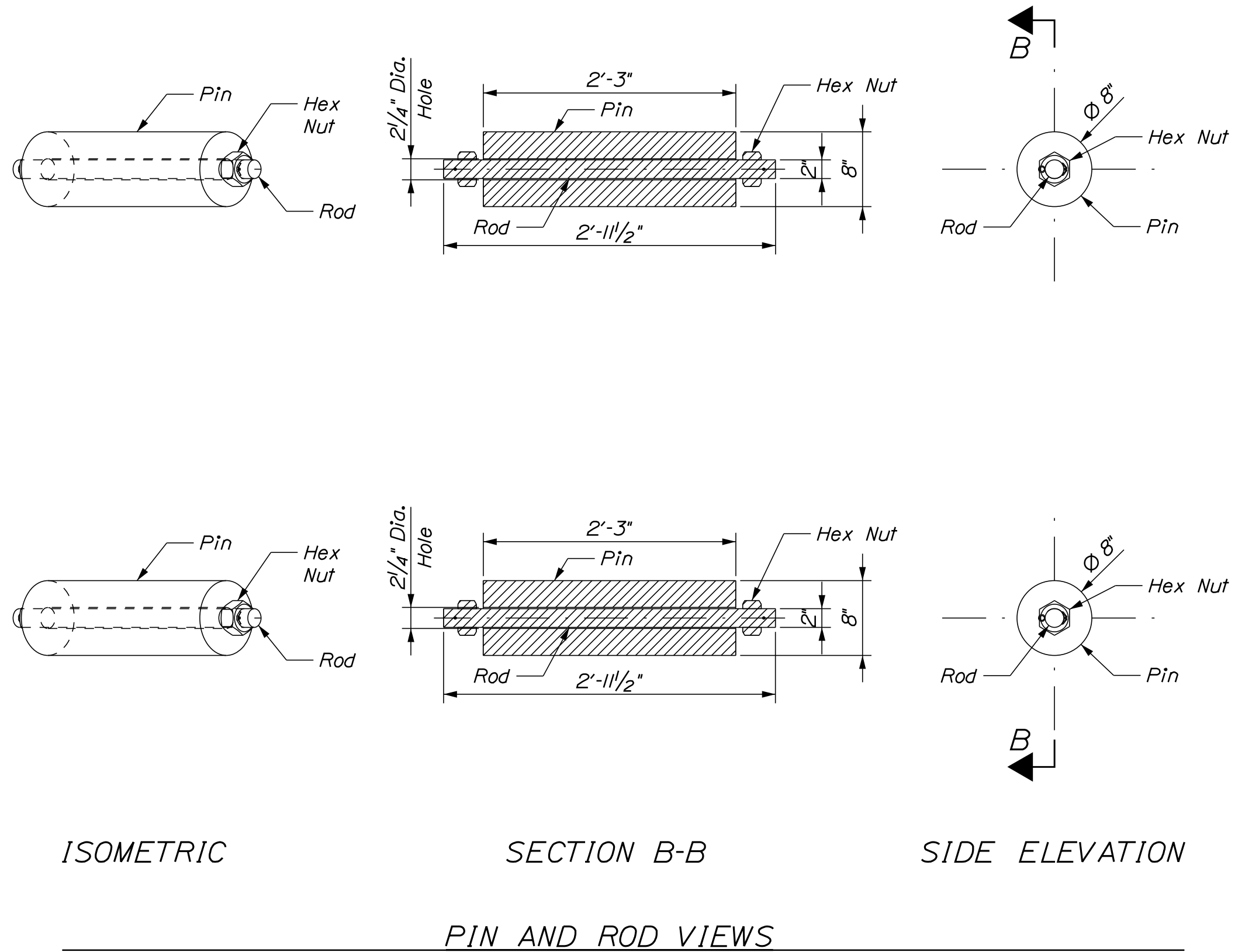
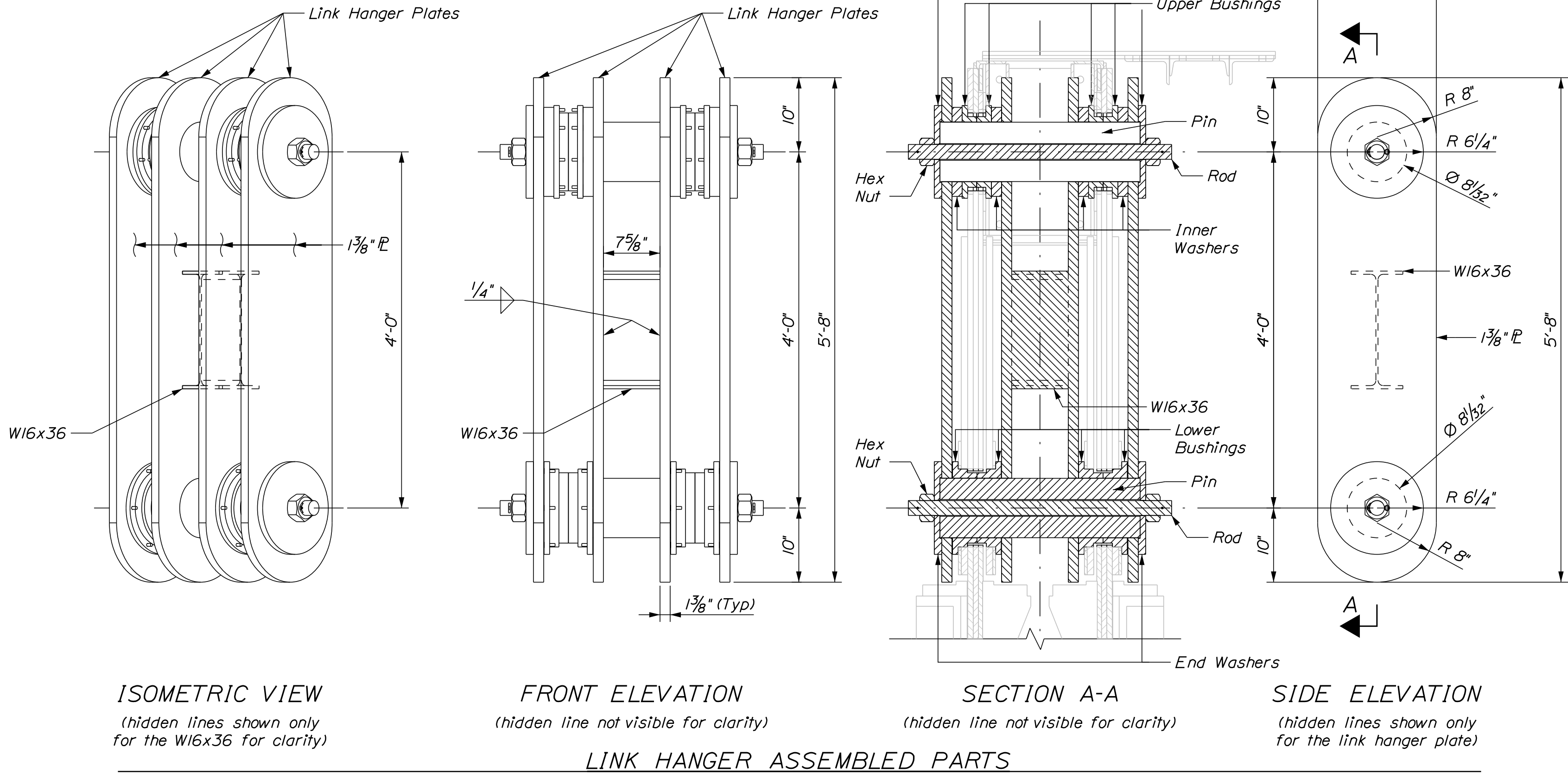
20 OF 34	SHEET NUMBER	AUGUSTA MEMORIAL BRIDGE OVER KENNEBEC RIVER AUGUSTA KENNEBEC COUNTY	PROJ. MANAGER	Brian Nichols	BY	DATE
			DESIGN-DETAILED	J. LEGERE	J. LEGERE	2/2026
			CHECKED-REVIEWED	D. MYERS	D. MYERS	2/2026
		DESIGN3-DETAILED2		SIGNATURE		
		DESIGN3-DETAILED3		P.E. NUMBER		
		REVISIONS 1				
		REVISIONS 2				
		REVISIONS 3				
		REVISIONS 4		DATE		
		FIELD CHANGES				
		STATE OF MAINE DEPARTMENT OF TRANSPORTATION				
		2616400				
		WIN 26164.00				
		BRIDGE #6196 BRIDGE PLANS				



LINK HANGER PLATES ELEVATION

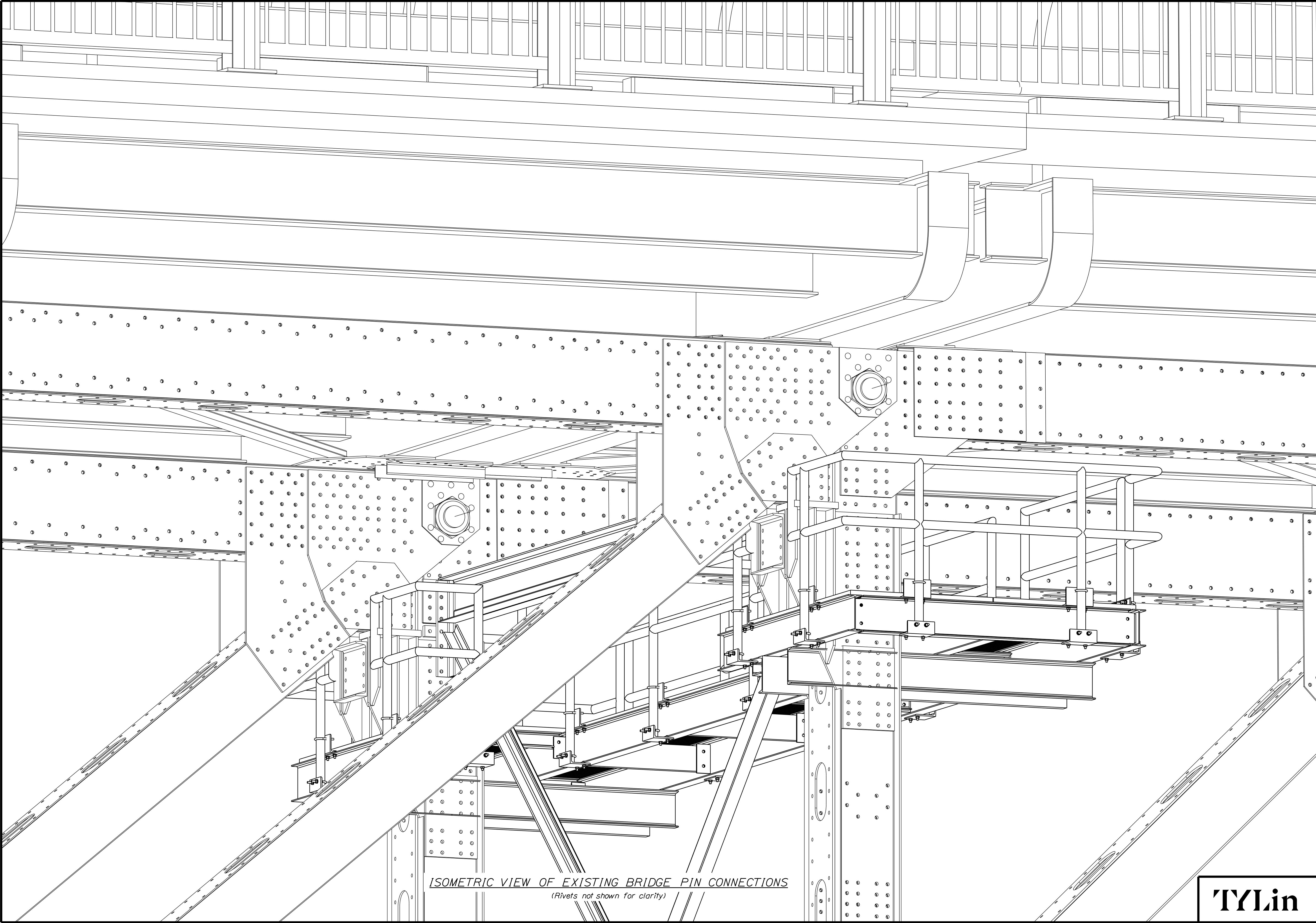
LINK HANGER PLATES ISOMETRIC

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2616400		WIN		26164.00		BRIDGE #5196		BRIDGE PLANS	
AUGUSTA MEMORIAL BRIDGE		OVER KENNEBEC RIVER		KENNEBEC COUNTY		AUGUSTA		LINK HANGER PLATE		ASSEMBLY		SHEET NUMBER	
DESIGN-DETAILED		CHECKED-REVIEWED		DESIGN-DETAILED		REVISIONS 1		REVISIONS 2		REVISIONS 3		REVISIONS 4	
DATE		BY		DATE		SIGNATURE		P.E. NUMBER		DATE			
2/2026		J. LEGERE		2/2026									
D. MYERS		D. MYERS											
FIELD CHANGES													



NOTES:

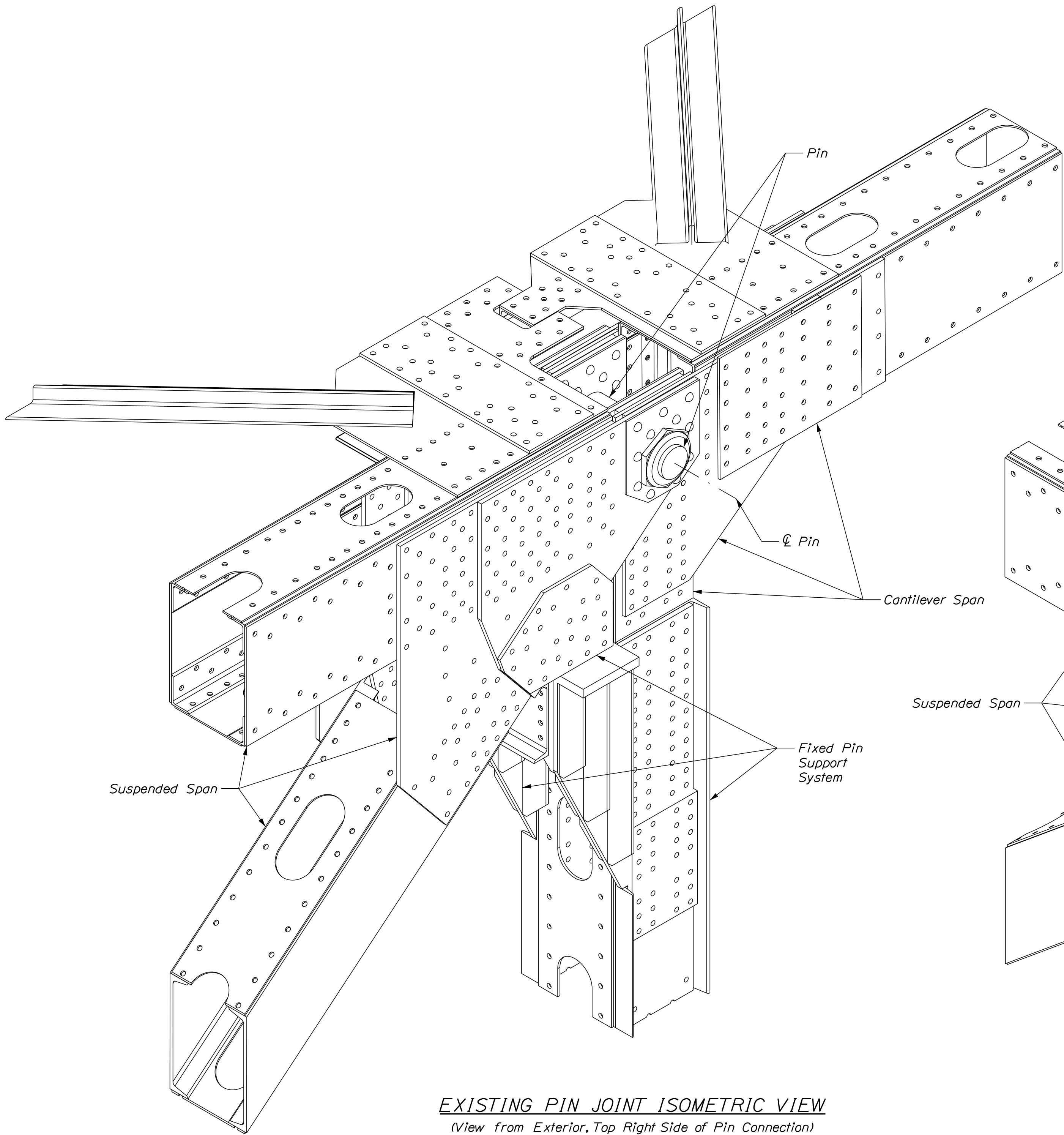
1. The starting angle and the diameter of the centerline of bolts may vary depending on the condition of the existing plates to be drilled and tapped, or any obstructions encountered. They may also vary depending which bushing size is chosen. The exact position of the drilled and tapped holes shall be determined by the contractor and approved by the Resident.



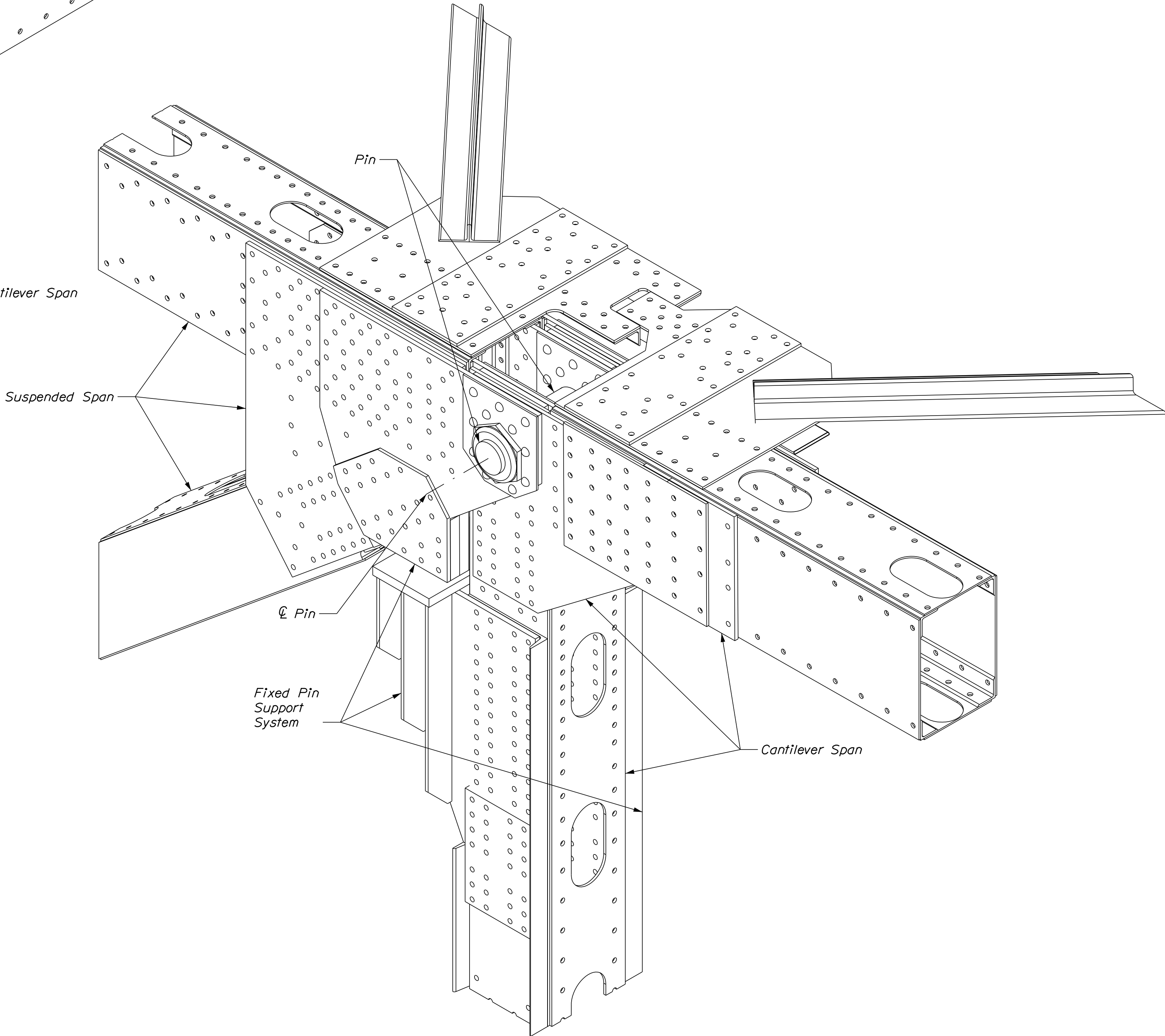
ISOMETRIC VIEW OF EXISTING BRIDGE PIN CONNECTIONS
 (Rivets not shown for clarity)



AUGUSTA MEMORIAL BRIDGE OVER KENNEBEC RIVER AUGUSTA KENNEBEC COUNTY		STATE OF MAINE DEPARTMENT OF TRANSPORTATION
SHEET NUMBER 23 OF 34		2616400 WIN 26164.00 BRIDGE #5196 BRIDGE PLANS
ISOMETRIC VIEW OF PIN CONNECTION		SIGNATURE P.E. NUMBER DATE
DESIGN-DETAILED J. LeGere CHECKED-REVIEWED R. Topo DESIGN-DETAILED REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES		BY DATE 3/2026 3/2026

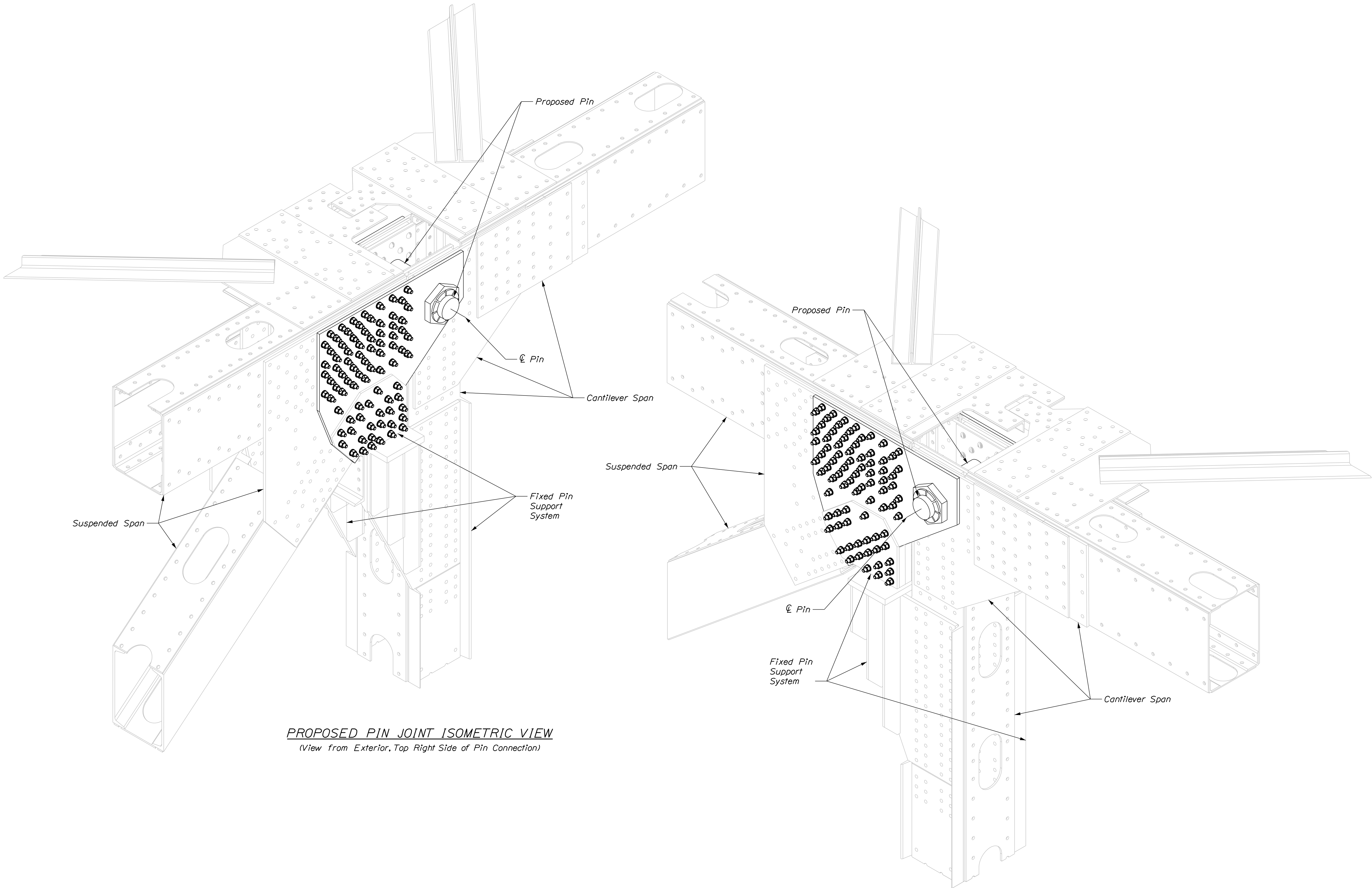


EXISTING PIN JOINT ISOMETRIC VIEW
 (View from Exterior, Top Right Side of Pin Connection)
 (Rivets not shown for clarity)



EXISTING PIN JOINT ISOMETRIC VIEW
 (View from Exterior, Top Left Side of Pin Connection)
 (Rivets not shown for clarity)

AUGUSTA MEMORIAL BRIDGE OVER KENNEBEC RIVER AUGUSTA KENNEBEC COUNTY		STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
		2616400 WIN 26164.00 BRIDGE #5196 BRIDGE PLANS	
ISOMETRIC VIEWS OF EXISTING PIN		DATE 3/2026	SIGNATURE
		BY J. LePage D. Myers	P.E. NUMBER
		PROJECT MANAGER Brian Nichols	DATE
		DESIGN-DETAILED J. LePage	P.E. NUMBER
		CHECKED-REVIEWED R. Topo	DATE
SHEET NUMBER		24 OF 34	



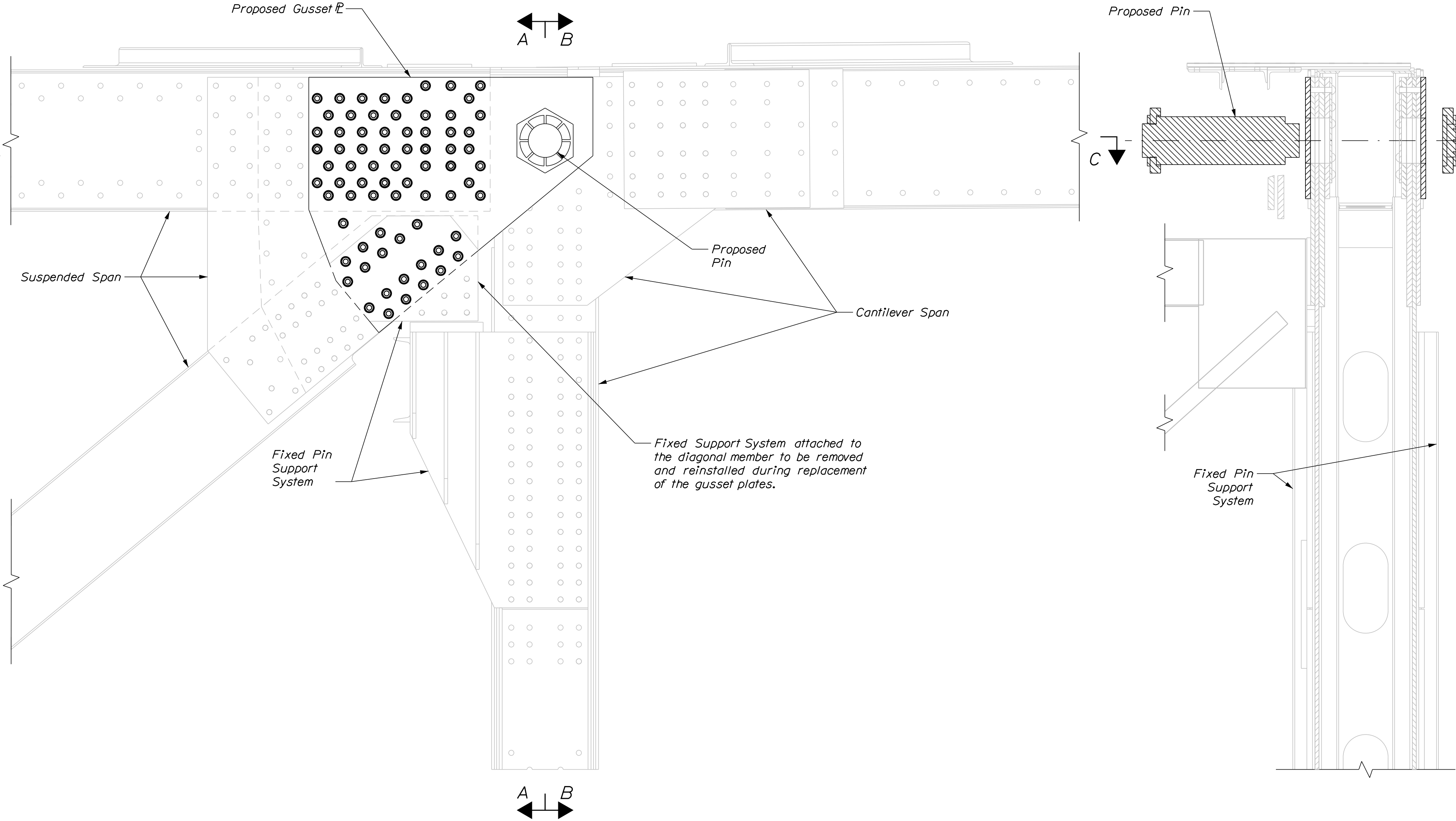
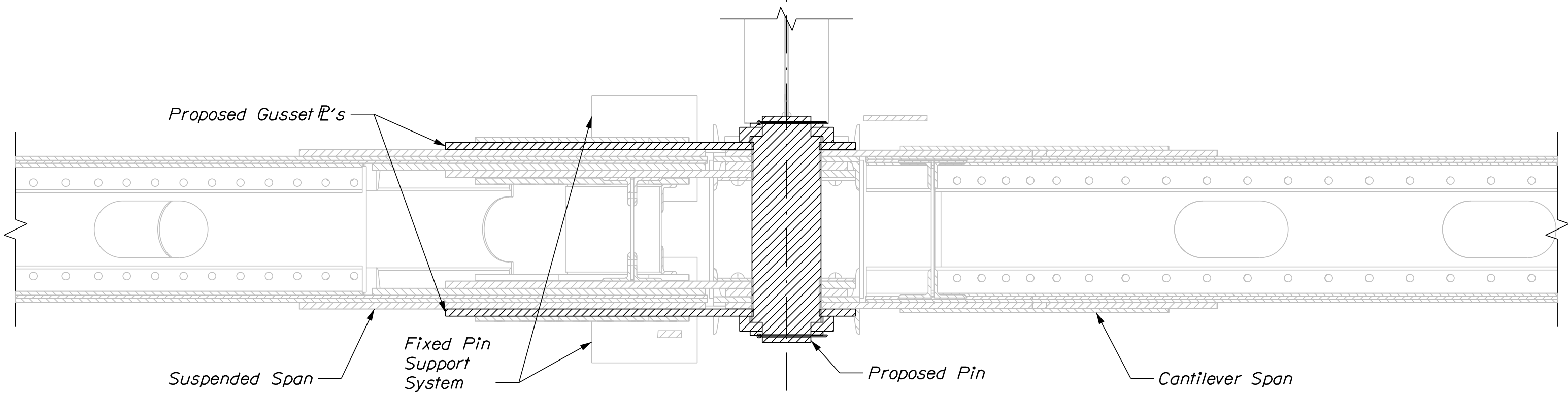
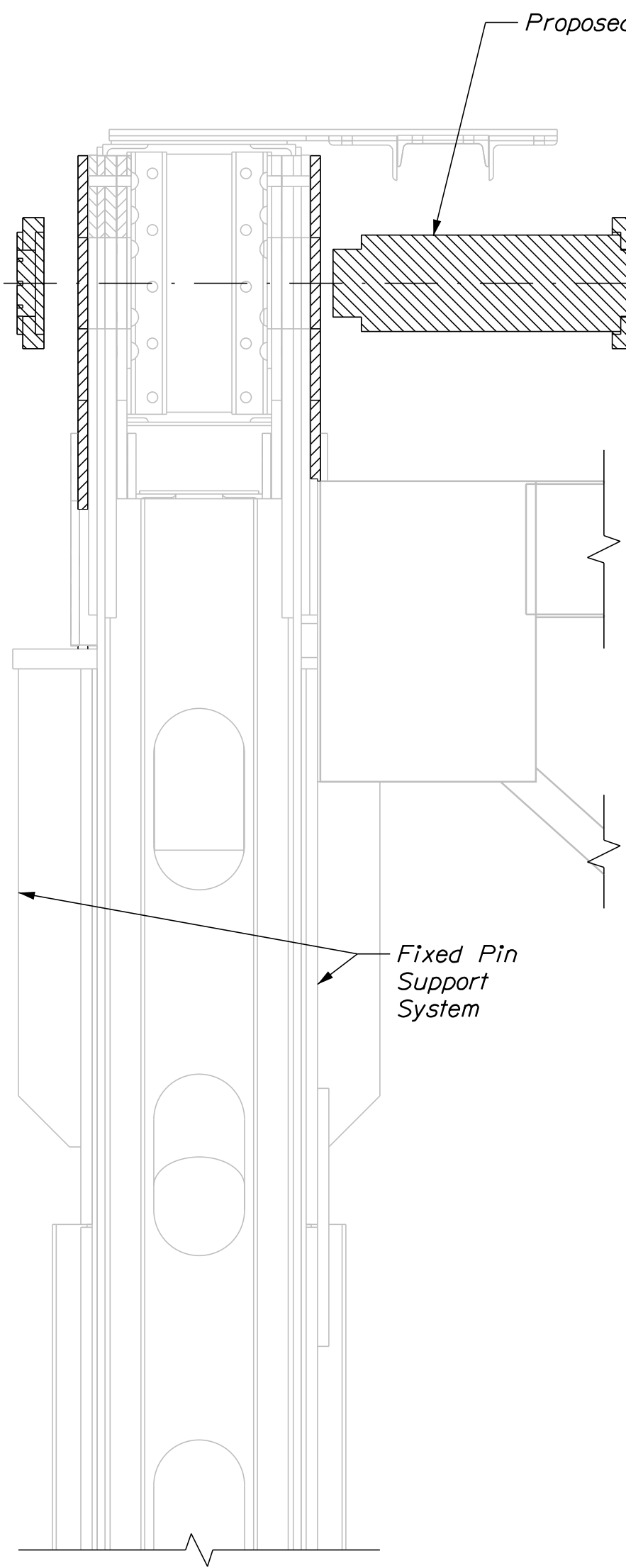
PROPOSED PIN JOINT ISOMETRIC VIEW
 (View from Exterior, Top Right Side of Pin Connection)

PROPOSED PIN JOINT ISOMETRIC VIEW
 (View from Exterior, Top Left Side of Pin Connection)



AUGUSTA MEMORIAL BRIDGE OVER KENNEBEC RIVER AUGUSTA KENNEBEC COUNTY		STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
		2616400	
		WIN 26164.00	
ISOMETRIC VIEWS OF PROPOSED PIN		DATE 3/2026	SIGNATURE
		BY J. LePage D. Myers	P.E. NUMBER
		DESIGN-DETAILED R. Topo	DATE
		REVISIONS 1	DATE
		REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES	DATE
SHEET NUMBER		BRIDGE #5196 26164.00 WIN 26164.00 BRIDGE PLANS	





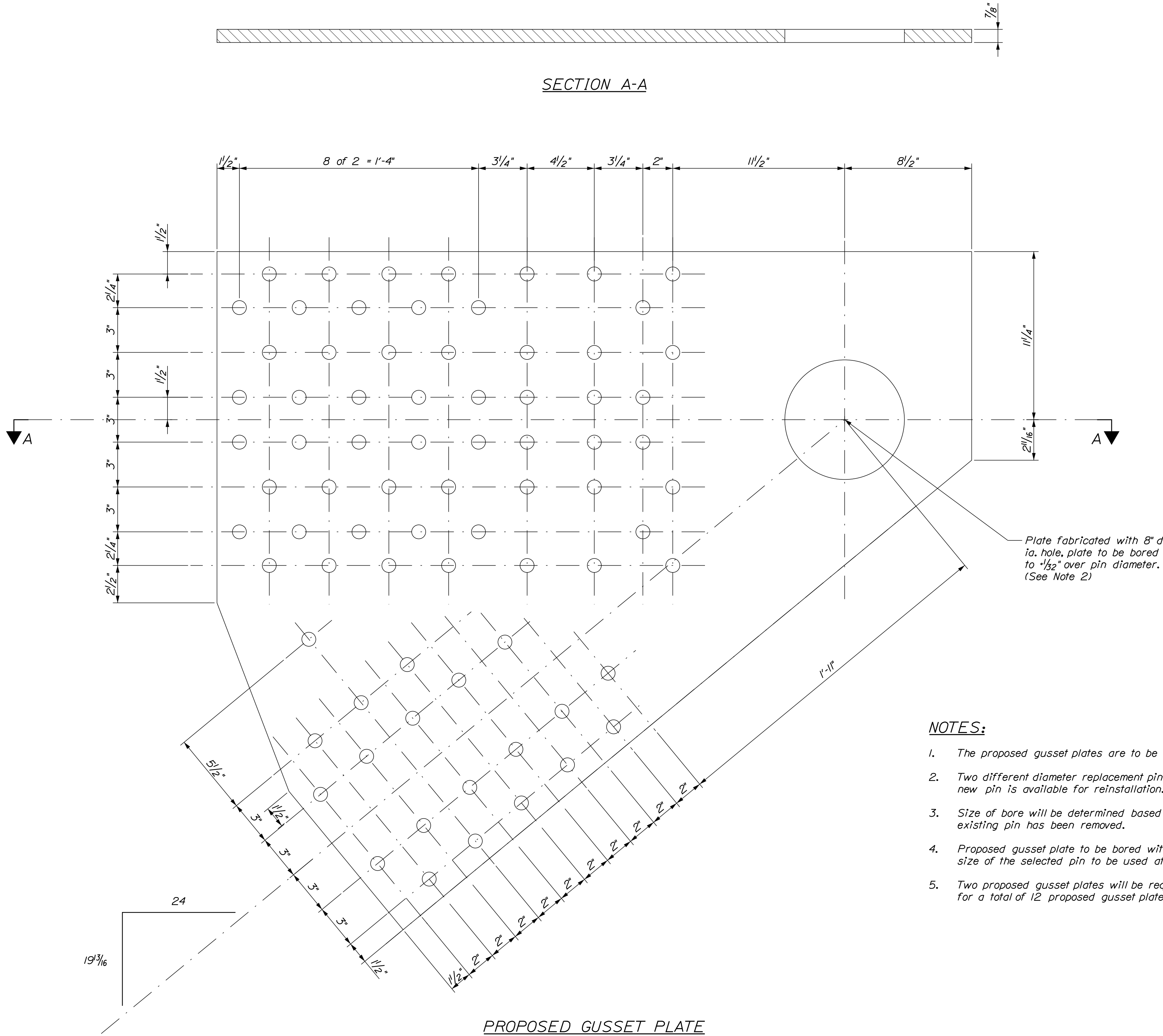
SECTION B-B
(Looking towards anchor span)

STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
2616400	
BRIDGE #5196	WIN 26164.00
BRIDGE PLANS	

PROJ. MANAGER	BY	DATE	SIGNATURE
DESIGN-DETAILED	J. LePage	3/2026	
CHECKED-REVIEWED	R. Toppe	3/2026	
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

AUGUSTA MEMORIAL BRIDGE OVER KENNEBEC RIVER AUGUSTA KENNEBEC COUNTY	
PROPOSED PIN JOINT	

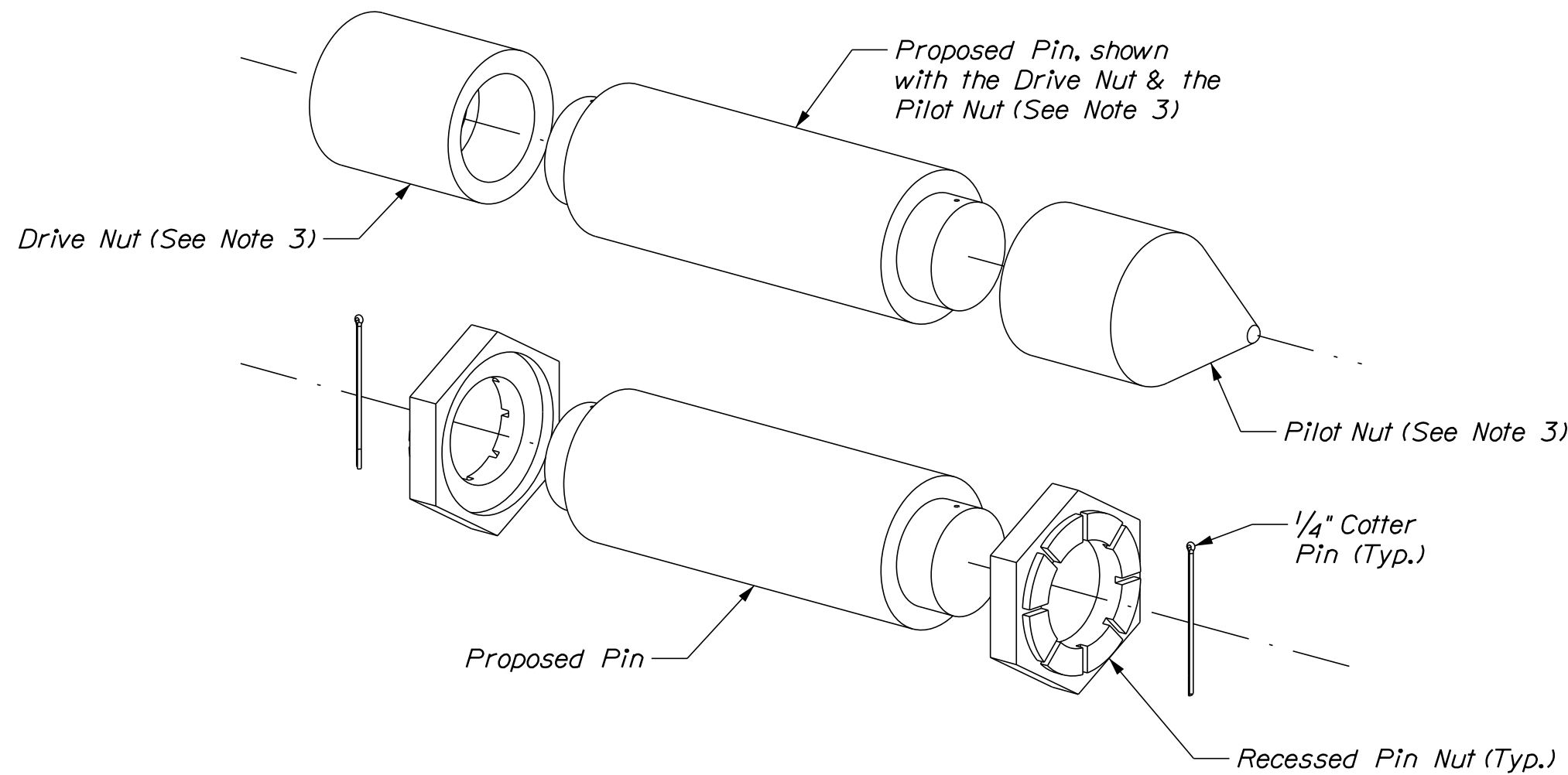
SHEET NUMBER
27
OF 34



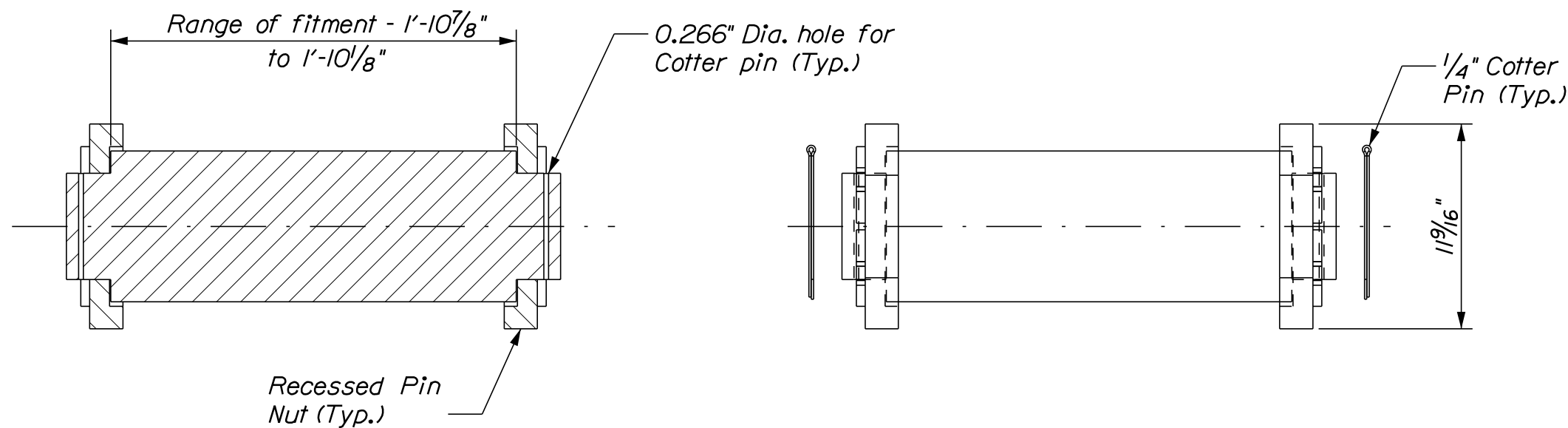
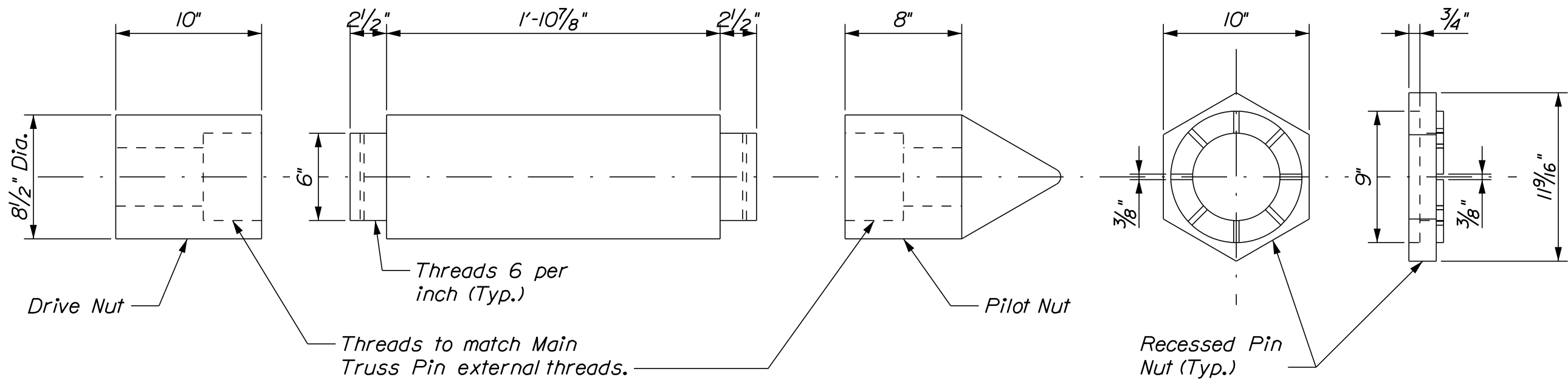
NOTES:

- The proposed gusset plates are to be installed before bored to full size.
- Two different diameter replacement pins to be fabricated to ensure an appropriate new pin is available for reinstallation.
- Size of bore will be determined based on the condition of the pin connection after existing pin has been removed.
- Proposed gusset plate to be bored with the remaining existing plates to 1/32" over size of the selected pin to be used at each location.
- Two proposed gusset plates will be required for each pin location (6 locations total) for a total of 12 proposed gusset plates.

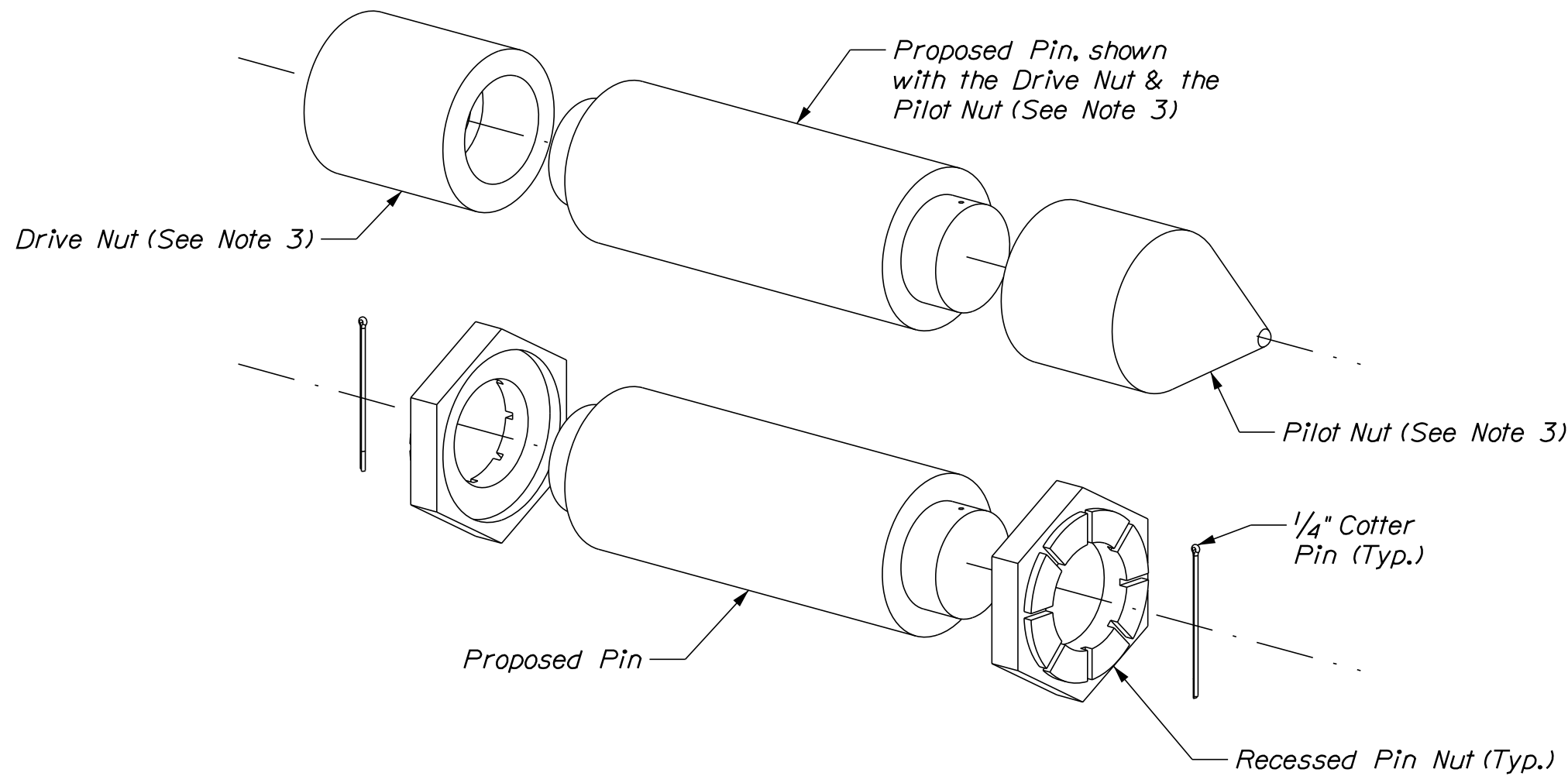
AUGUSTA MEMORIAL BRIDGE OVER KENNEBEC RIVER AUGUSTA KENNEBEC COUNTY	STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
	2616400	
	BRIDGE #5196	WIN 26164.00
SHEET NUMBER		BRIDGE PLANS
28		OF 34



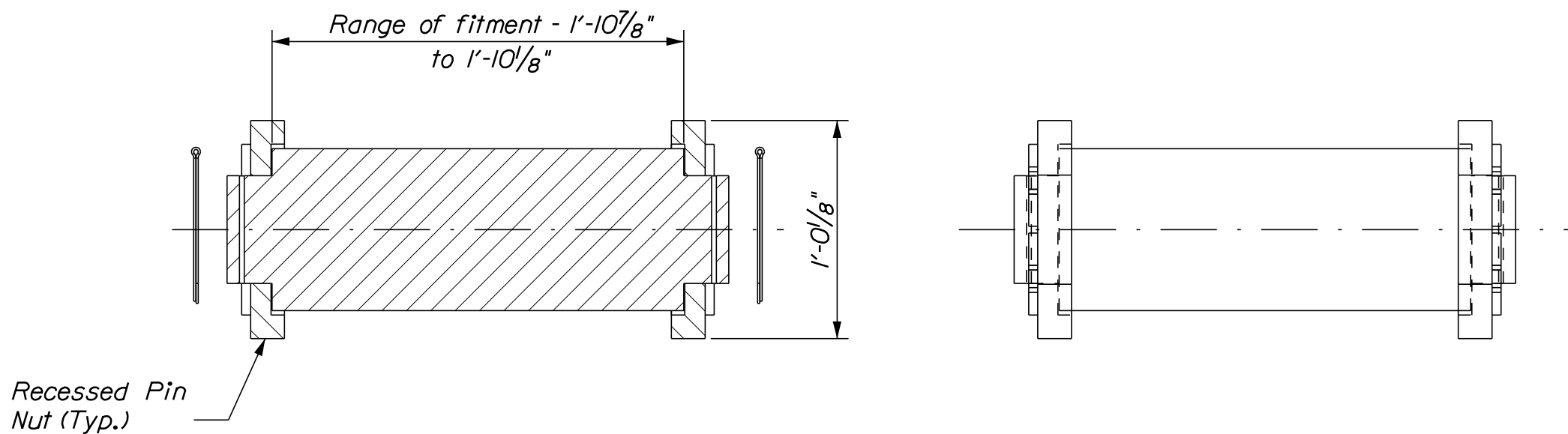
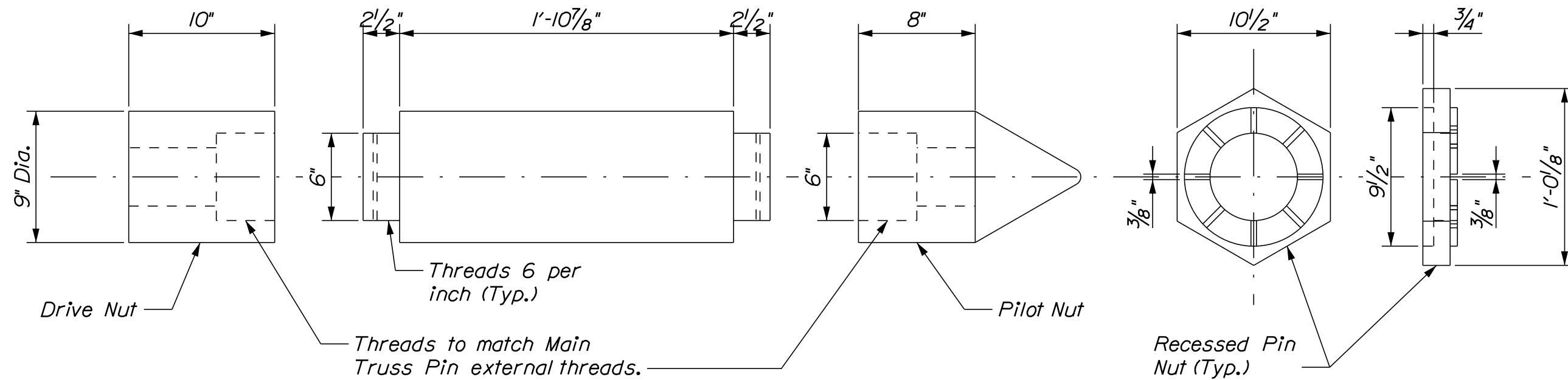
ISOMETRIC VIEW - 8 1/2" OVERSIZED PIN



8 1/2" OVERSIZED PIN
(See Note 1)



ISOMETRIC VIEW - 9" OVERSIZED PIN



9" OVERSIZED PIN
(See Note 1)

PROPOSED OVERSIZED MAIN TRUSS PINS
(See Note 1)

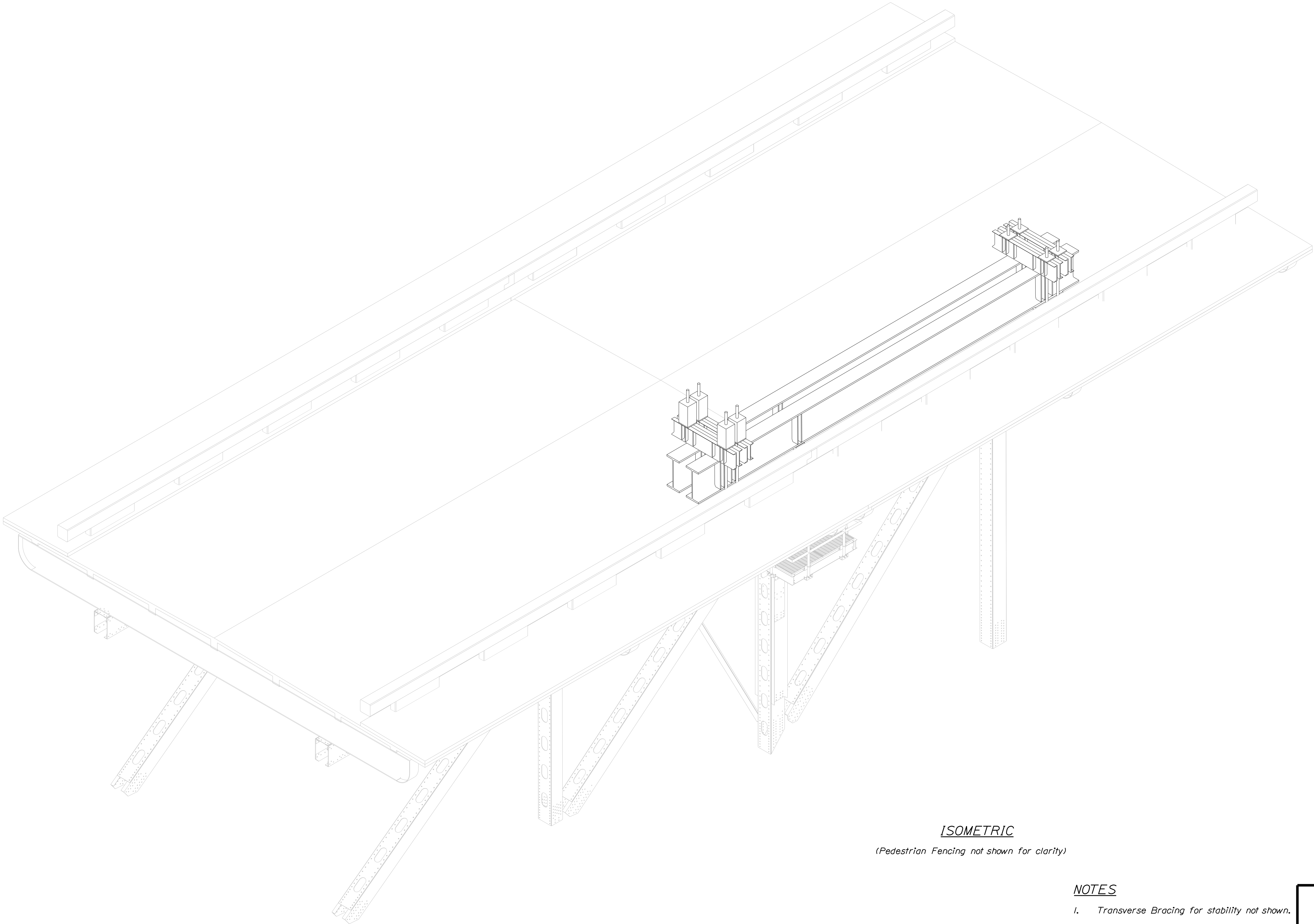
NOTES

- The length and the cotter pin locations to be verified in the field for both the 8 1/2" and the 9" Oversized Pin's before final machining.
- Contractor shall have one 8 1/2" Oversized Pin and one 9" Oversized Pin available when replacing the pin at each location (6 locations total).
- The 8 1/2" and the 9" oversized pins are shown with Drive Nuts and Pilot Nuts. These nuts are for installation purposes only, and are intended to prevent damage of the proposed pins.

AUGUSTA MEMORIAL BRIDGE OVER KENNEBEC RIVER AUGUSTA KENNEBEC COUNTY					PROJ. MANAGER		Byron Nichols	BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
PIN ASSEMBLY DETAILS					DESIGN-DETAILED		J. Legere		3/2026	SIGNATURE	
					CHECKED-REVIEWED		R. Thapa	D. Myers	3/2026		
					DESIGN2-DETAILED2						
					DESIGN3-DETAILED3						
					REVISIONS 1						
					REVISIONS 2					P.E. NUMBER	
					REVISIONS 3						
					REVISIONS 4						
					FIELD CHANGES						
SHEET NUMBER											BRIDGE #5196 WIN 26164.00 BRIDGE PLANS
29											
OF 34											

TEMPORARY STRUCTURAL SUPPORT CONCEPT

- This is a concept. Contractor is responsible for design in accordance with Special Provision 524, Temporary Structural Supports.
- All new high strength bolts are designed as bearing type unless noted otherwise.
- The unfactored existing dead load per pin is estimated at 300 kips per pin.

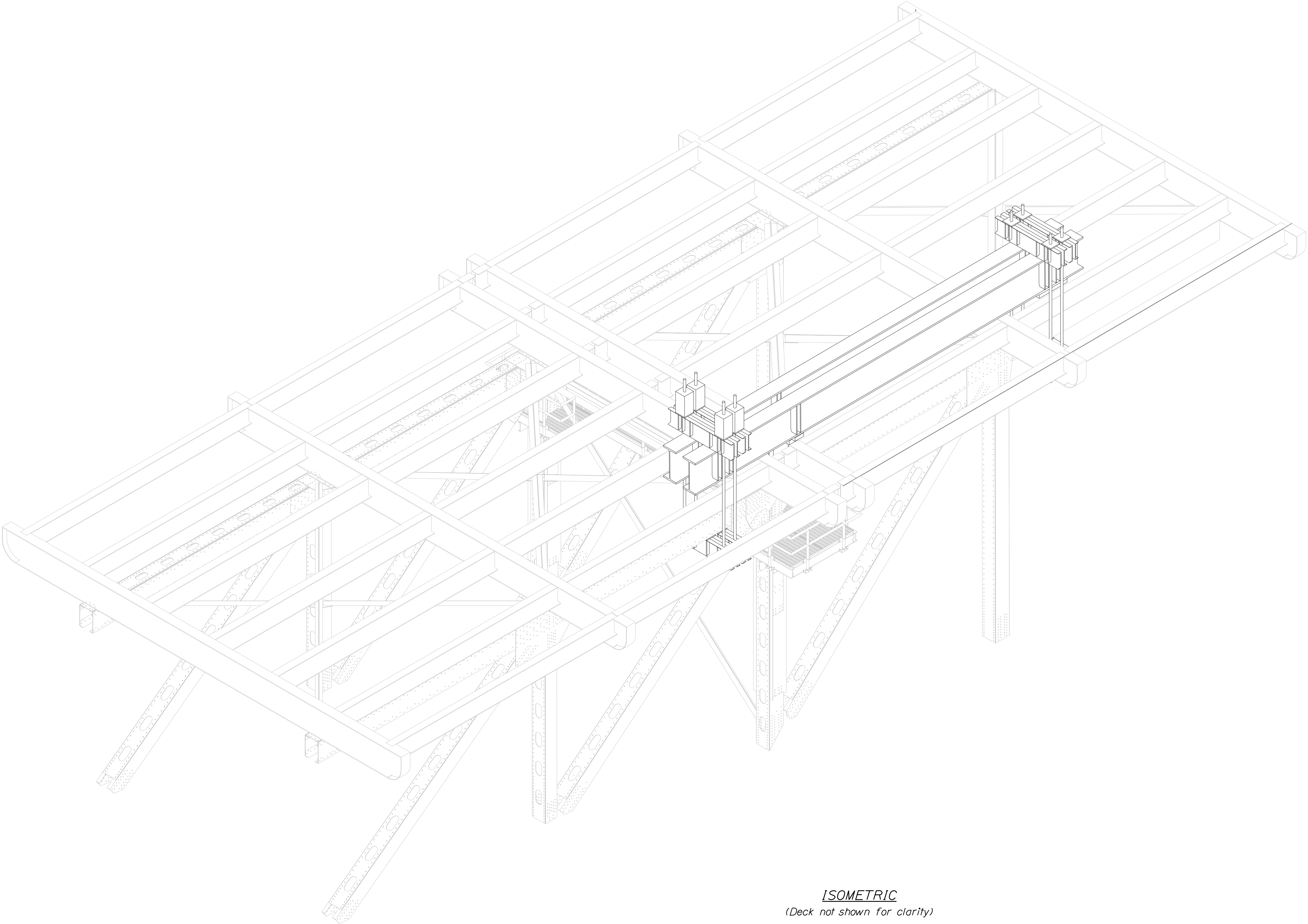


ISOMETRIC
(Pedestrian Fencing not shown for clarity)

- NOTES
- Transverse Bracing for stability not shown.



AUGUSTA MEMORIAL BRIDGE OVER KENNEBEC RIVER AUGUSTA KENNEBEC COUNTY				STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
TEMPORARY SUPPORT CONCEPT 1 OF 5				2616400	
SHEET NUMBER				BRIDGE #5196	
30				WIN	
OF 34				26164.00	
				BRIDGE PLANS	
PROJ. MANAGER		BRIAN NICHOLS		BY	
DESIGN-DETAILED		C. TAYLOR		R. THROO	
CHECKED-REVIEWED		S. KIRKADIS		C. TAYLOR	
DESIGN2-DETAILED2				06/2026	
DESIGN3-DETAILED3					
REVISIONS 1				P.E. NUMBER	
REVISIONS 2					
REVISIONS 3				DATE	
REVISIONS 4					
FIELD CHANGES					



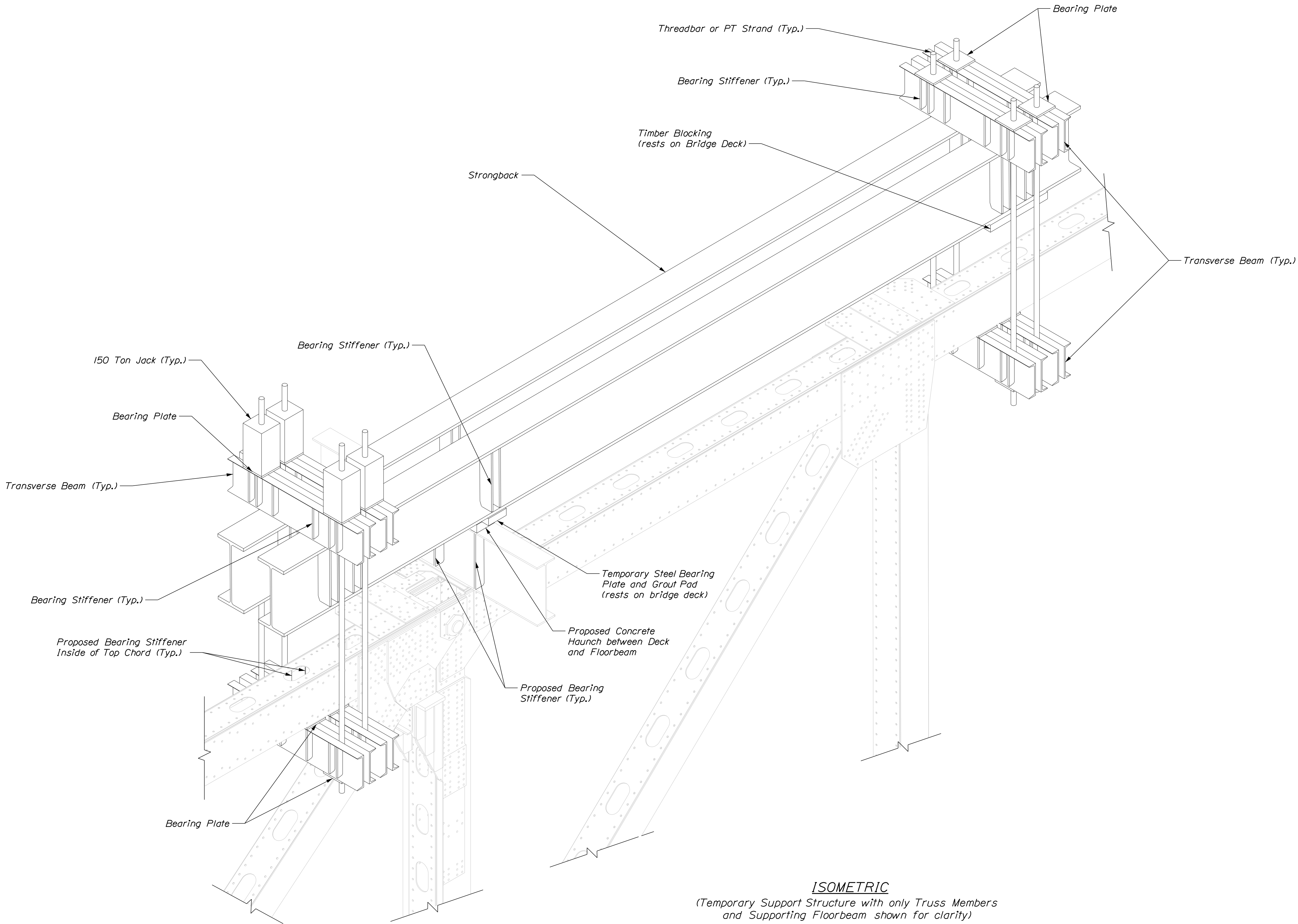
ISOMETRIC
(Deck not shown for clarity)

NOTES

1. Transverse Bracing for stability not shown.



AUGUSTA MEMORIAL BRIDGE OVER KENNEBEC RIVER AUGUSTA KENNEBEC COUNTY		PROJ. MANAGER DESIGN-DETAILED CHECKED-REVIEWED DESIGN-DETAILED REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES		BY R. Throo C. Taylor S. Kridde		DATE 06/2026 06/2026		SIGNATURE		STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
TEMPORARY SUPPORT CONCEPT 2 OF 5								P.E. NUMBER		2616400	
SHEET NUMBER								DATE		BRIDGE #5196	
31										WIN	
OF 34										26164.00	
										BRIDGE PLANS	



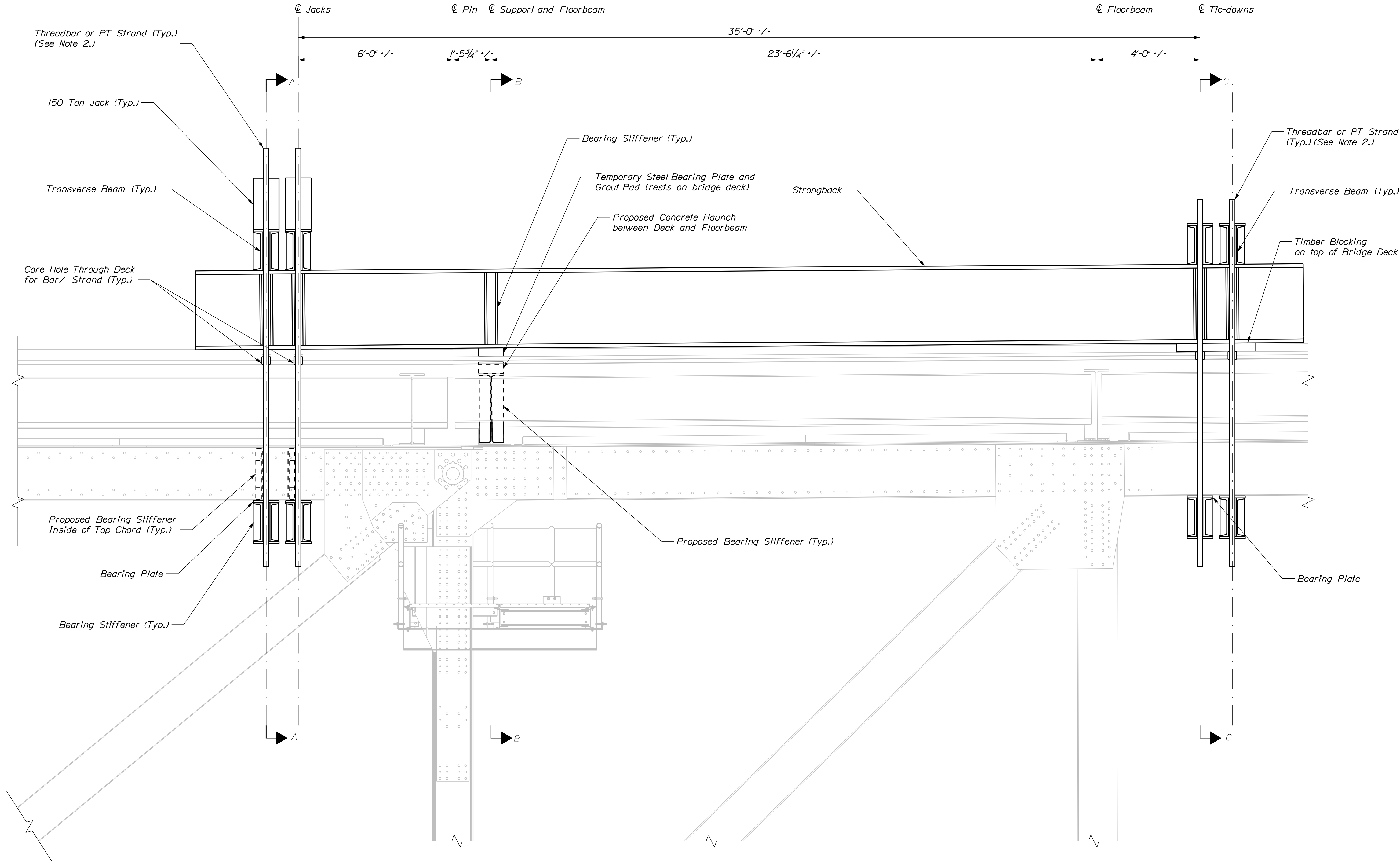
ISOMETRIC
 (Temporary Support Structure with only Truss Members and Supporting Floorbeam shown for clarity)

NOTES

1. Transverse Bracing for stability not shown.



AUGUSTA MEMORIAL BRIDGE OVER KENNEBEC RIVER AUGUSTA KENNEBEC COUNTY		STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
		2616400	
		WIN 26164.00 BRIDGE #5196	
AUGUSTA TEMPORARY SUPPORT CONCEPT 3 OF 5		SIGNATURE	DATE
		P.E. NUMBER	DATE
		REVISIONS 1	DATE
		REVISIONS 2	DATE
		REVISIONS 3	DATE
SHEET NUMBER		BRIDGE PLANS	
32		26164.00	
OF 34		WIN	



ELEVATION
(Exterior Stringer omitted for clarity)

NOTES

1. Temporary support shown at pin location. Support at hanger locations similar.
2. Tie-down end restraint shall be snug tight prior to lifting the suspended span.

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		2616400		WIN		26164.00		BRIDGE #5196		BRIDGE PLANS	
AUGUSTA MEMORIAL BRIDGE		OVER KENNEBEC RIVER		KENNEBEC COUNTY		AUGUSTA		TEMPORARY SUPPORT		CONCEPT 4 OF 5		SHEET NUMBER	
DESIGN-DETAILED		CHECKED-REVIEWED		DESIGN-DETAILED		REVISIONS 1		REVISIONS 2		REVISIONS 3		REVISIONS 4	
BY		DATE		SIGNATURE		P.E. NUMBER		DATE					
R. Throop		06/2026											
C. Taylor		06/2026											
B. Nichols													
C. Taylor													
S. Kridels													
FIELD CHANGES													

