

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

SPECIFICATIONS

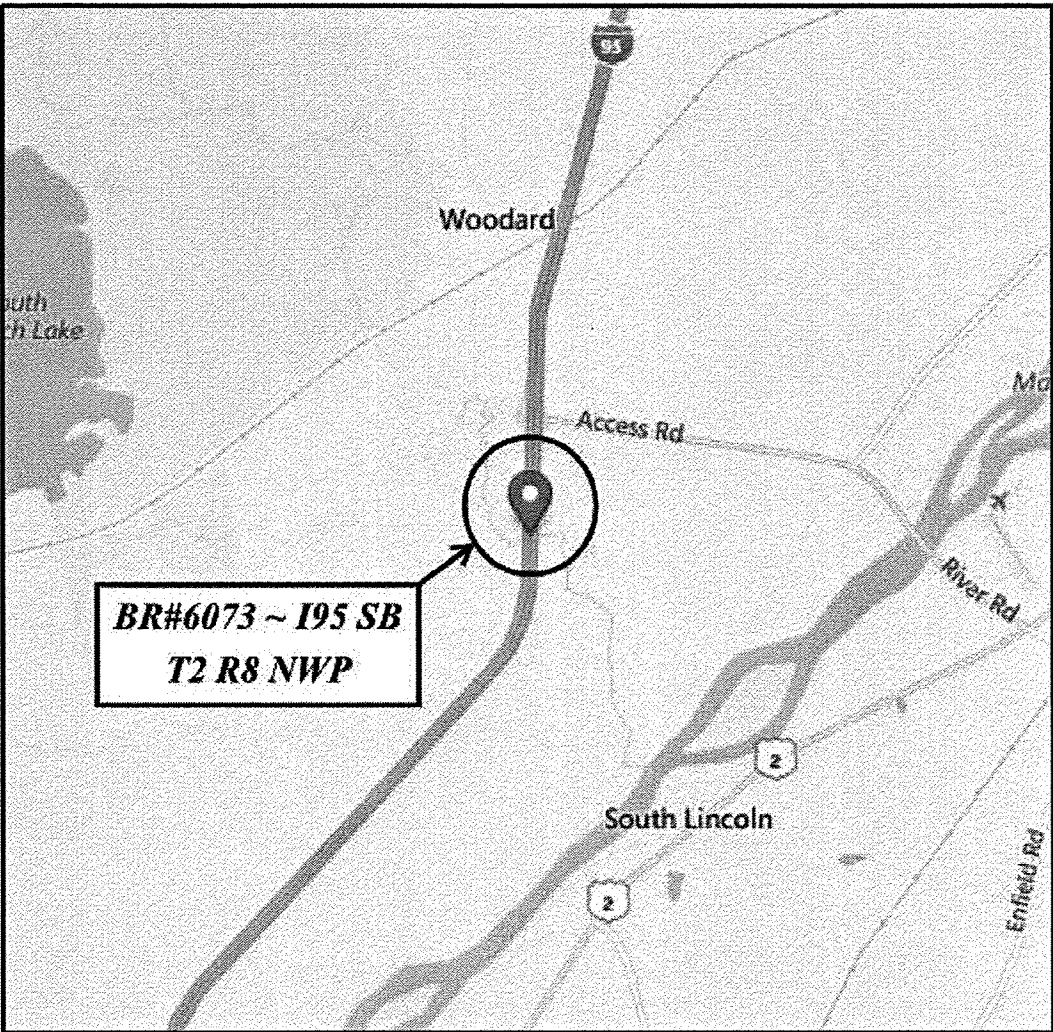
2014 MaineDOT Standard Specifications with Updates and
the 2014 MaineDOT Standard Details with Updates.

TRAFFIC DATA

Current (2017) AADT.....4,060



T2 R8 NWP
PENOBSCOT COUNTY
I - 95 Southbound
OVER
MATTAMISCONTIS STREAM
BRIDGE NO. 6073
BRIDGE REHABILITATION
WR ~ 38028
WIN ~ 25446.00



MATERIALS

Concrete:
All concrete..... Class "LP"
Reinforcing Steel.....ASTM A 615/A 615M, Grade 60
Structural Steel:
All Material (except as noted).....AASHTO M 270M/M 270 Grade 36
High Strength Bolts.....ASTM F3125, Grade 325, Type 3

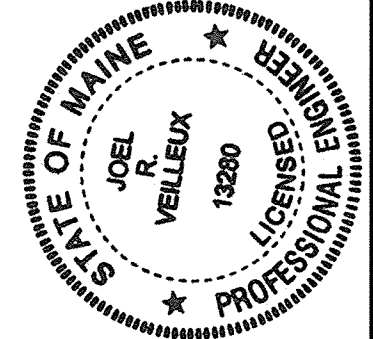
BASIC DESIGN STRESSES

Concrete..... f 'c = 5000 psi
Reinforcing Steel..... f y = 60,000 psi
Structural Steel:
ASTM A 709, Grade 36..... F y = 36,000 psi
ASTM F3125, Grade A325, Type 3..... F μ = 120,000 psi

LIST OF DRAWINGS

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STATE OF MAINE DEPARTMENT OF TRANSPORTATION		APPROVED	DATE
		COMMISSIONER:	
		CHIEF ENGINEER:	



<i>Joel R. Velleux</i>	SIGNATURE	13280	P.E. NUMBER	3-7-2019	DATE
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PROJECT INFORMATION		Bridge & Structure Maintenance	
PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT
	Mike Thompson	G. Libby	
PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE	

WIN 25446.00

25446.00

PROJECT LOCATION	Matamisconttis Stream Bridge over the Matamisconttis Stream in T2 R8 Lat./Long. 45°21'48.06" N 68°36'21.46" W
PROGRAM AREA	Bridge and Structure Maintenance
OUTLINE OF WORK	Bridge Rehabilitation.

T2 R8 NWP I95 Southbound over Mattamisconttis Stream	TITLE SHEET
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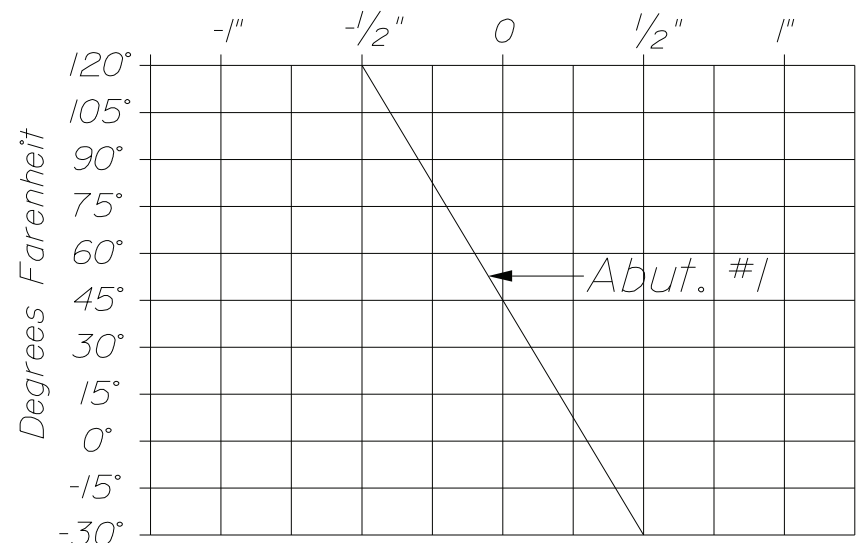
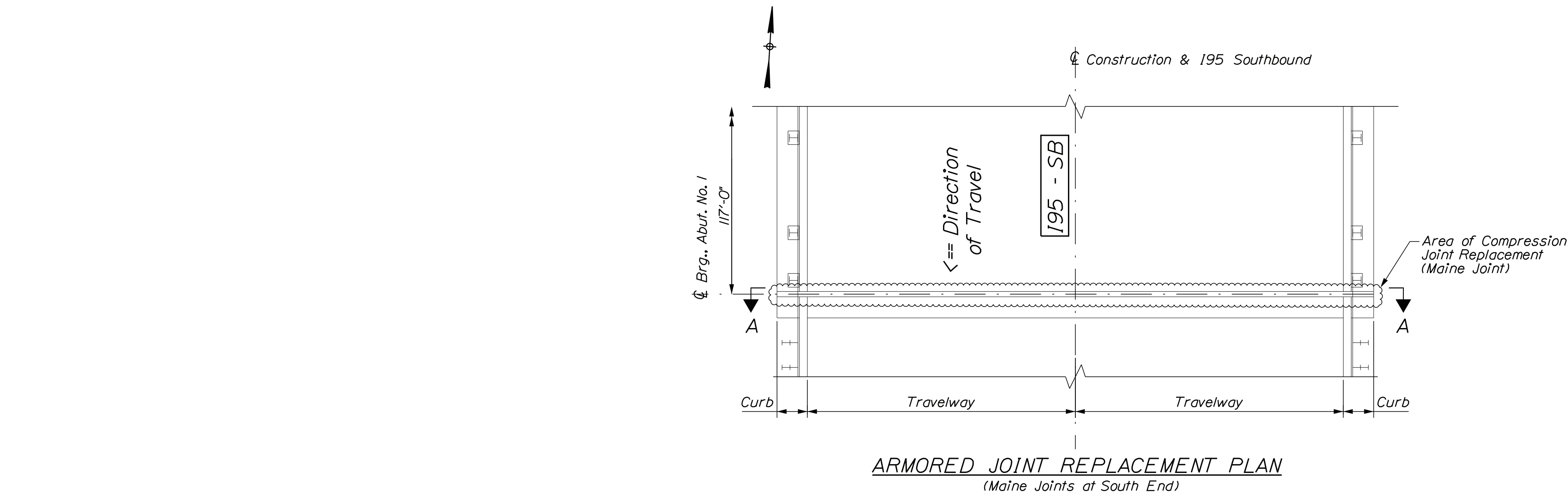
SHEET NUMBER
1
OF 5

Date:2/21/2019

Username: gerard.libby

Division: BRIDGE

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SEAL ADJUSTMENT CHART

Notes:

~ This joint was designed for 15⁄8" opening at 45°.

JOINT OPENING NOTES:

The Expansion Device shall be set to an opening of 15⁄8" inches in the Fabrication Shop. The joint opening shall be adjusted for temperature in the field at the time of installation using the following formula:

0.00008 x "D" x "ΔT" = Adjustment (in inches)

"D" is the distance in feet between the backwall and the nearest fixed bearing (for joints at abutments) or between the fixed bearings at either side of the expansion joint (for joints or piers).

"ΔT" is the difference between the temperature of the bridge girders and 45°F.

A structure temperature above 45°F will result in a smaller joint opening.

Scope of Work:

Replace expansion joint armor, concrete headers and joint seals at Abutment #1. Joint armor to be fabricated and supplied by others. All other work by the Department. New joint seal shall be Watson Bowman Acme WABO WA-250 or D.S. Brown Delastic CV-2502. Install seals in accordance with manufacturer's recommendations. Project Manager - Region 4 Bridge Transportation Operations Manager (TOM) - Mike Thompson.

GENERAL CONSTRUCTION NOTES:

1. The existing bridge plans may be accessed at the following MaineDOT web address:

http://www.maine.gov/mdot/contractors/

The plans are reproductions of the original drawings as prepared for construction of the bridge. It is very unlikely that the plans will show any construction field change or any alterations which may have been made to the bridge during it's life span.

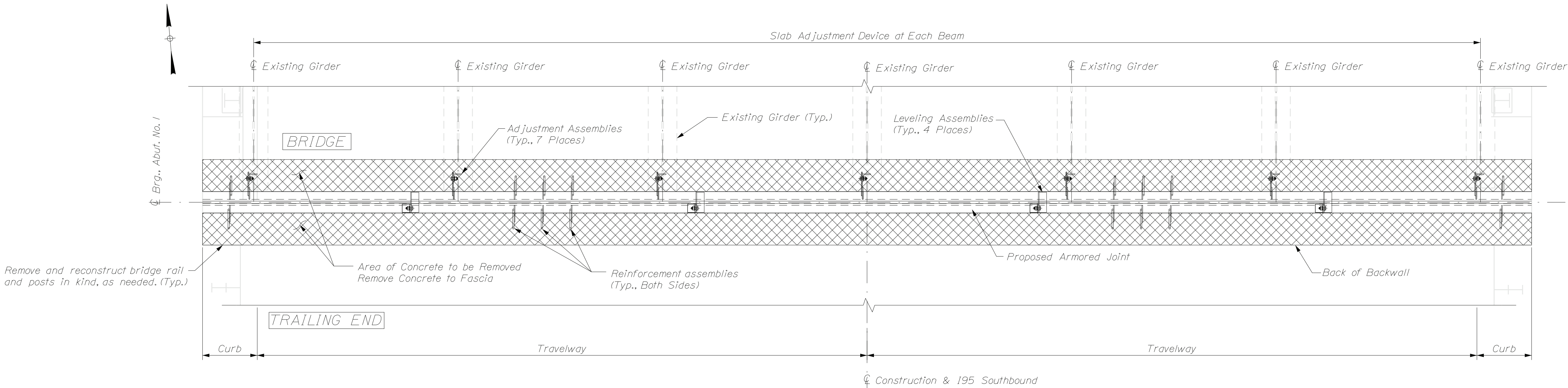
2. Dimensions shown are from existing plans and may differ from actual field dimensions. Field verify all dimensions prior to installation.

3. Any necessary reconstruction of the existing bridge rail and the removal and replacement of curb concrete shall be as approved by the Region Bridge TOM.

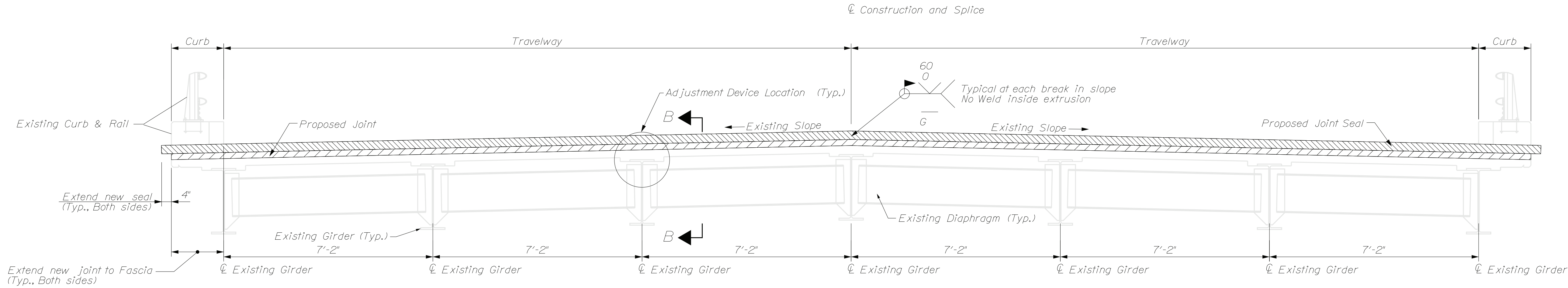
4. Existing Concrete curb which requires removal in order to install the armored joints and seal shall be carefully and neatly cut off and removed to sound concrete as required. Concrete shall be placed to the limits shown on the plans.

5. Fabricate and deliver the expansion joint to Region 4, Carmel Bridge Maintenance Lot at 991 Fuller Road in Carmel, Maine. Contact for delivery arrangements is Mike Thompson at 207-712-6604 or Michael.Thompson@maine.gov

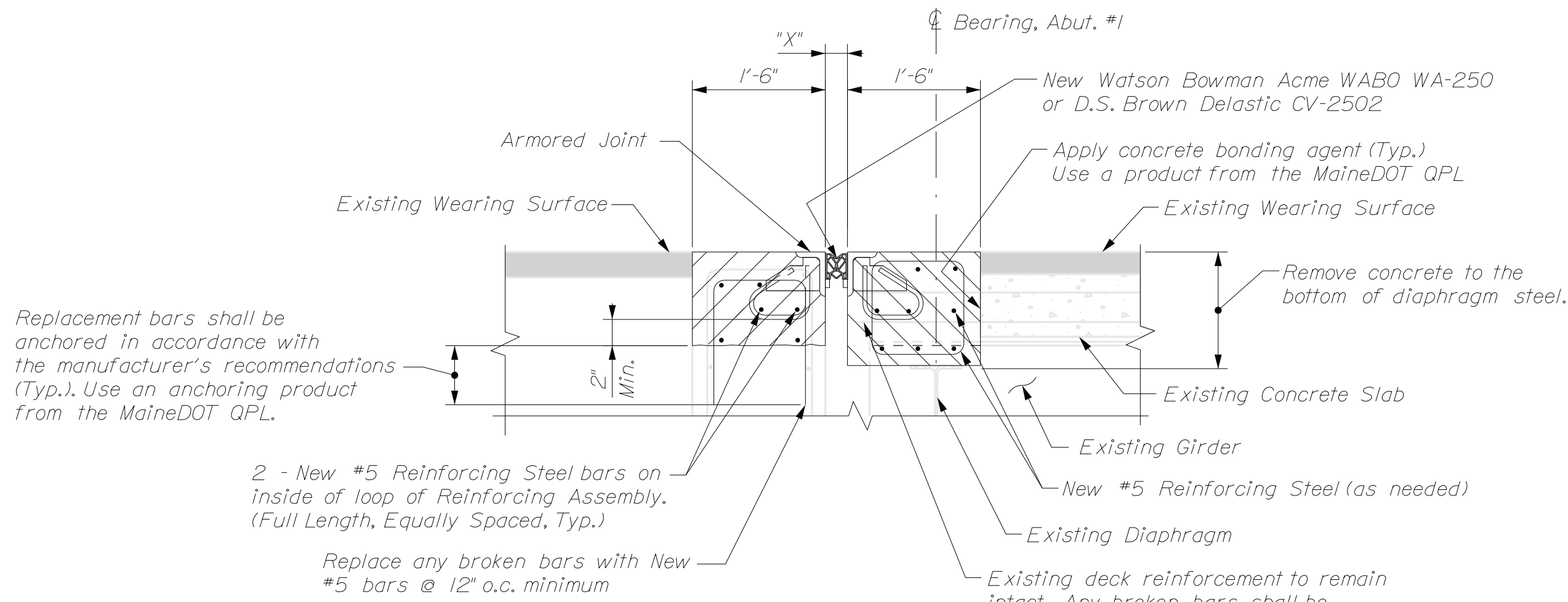
6. Seal existing and new concrete surfaces in accordance with the Bridge Maintenance Manual. The coating limits are to be at the discretion of the Region Bridge TOM.



STATE OF MAINE				DEPARTMENT OF TRANSPORTATION				BRIDGE NO. 6073				BRIDGE JOINT PLANS			
025446.00				SIGNATURE				P.E. NUMBER				DATE			
MATAMISCONTTIS BRIDGE				PROJ. MANAGER				BY				DATE			
MATAMISCONTTIS STREAM				DESIGN-DETAILED				C. Libby				FEB 2019			
T2 R8 NWP				CHECKED-REVIEWED				J. Vallaux				J. Vallaux			
PENOBSCOT				DESIGN2-DETAILED2											
				DESIGN3-DETAILED3											
				REVISIONS 1											
				REVISIONS 2											
				REVISIONS 3											
				REVISIONS 4											
				FIELD CHANGES											
ARMORED JOINT PLANS															
SHEET NUMBER				2											
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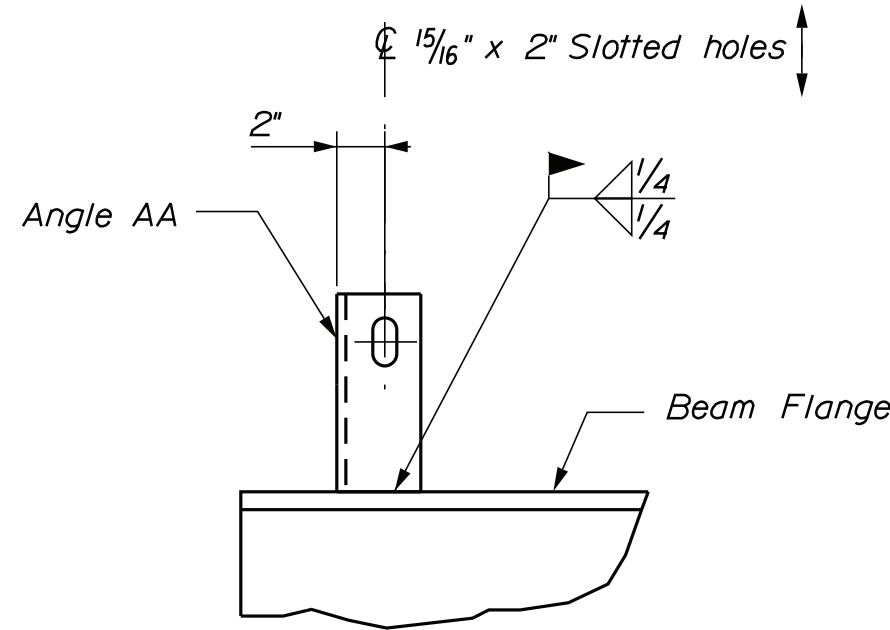


TRANSVERSE SECTION A - A
(Maine Joint at Abut. #1)



SECTION B - B

- NOTES:
1. Replacement bars shall be anchored in accordance with the manufacturers recommendations (Typ.). Use an anchoring product from the MaineDOT QPL.
 2. Adjustment devices not shown for clarity.



ADJUSTMENT ASSEMBLY
FIELD WORK DETAIL

CONCRETE SLAB NOTES

1. The existing concrete shall be removed so as not to damage existing vertical and horizontal steel in the parapets or the longitudinal and transverse reinforcing steel in the superstructure. Any damaged reinforcing steel shall be replaced at the direction of the Region Bridge TOM.
2. Existing reinforcing steel to remain shall be cleaned as directed by the Region Bridge TOM prior to placing new concrete.
3. All rebar splices shall be 18" minimum.
4. Reinforcing steel shall have a minimum 2" of cover unless otherwise noted.
5. All adjustment angles shall be welded after final position adjustments are made.
6. Concrete removal limits depend on the existing bridge and may not match what is shown here. Refer to existing bridge plans and field measurements. Limits may be reduced with the approval of the Region Bridge TOM.

NOTE:

Installation Details for MaineDOT
Crew Personnel

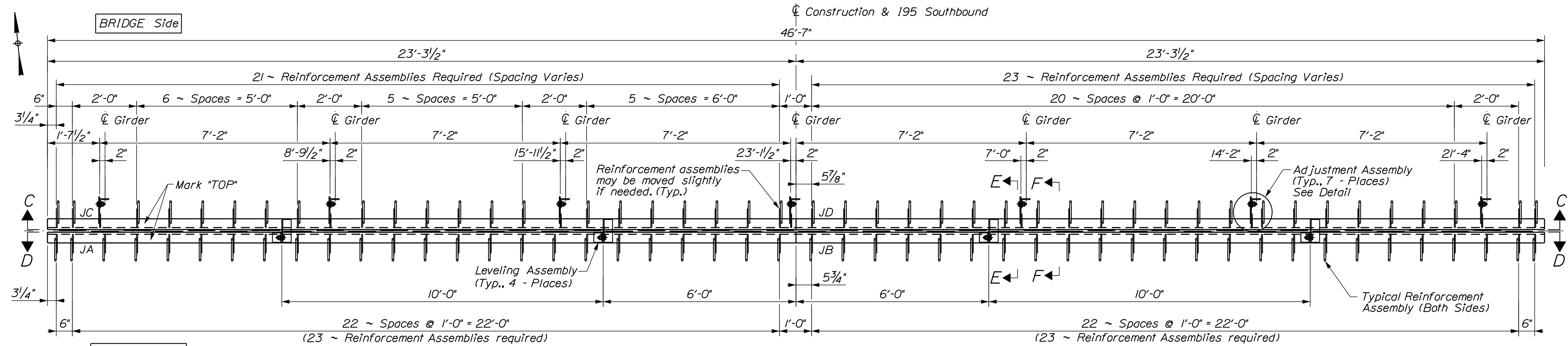
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	025446.00				
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Date:2/21/2019

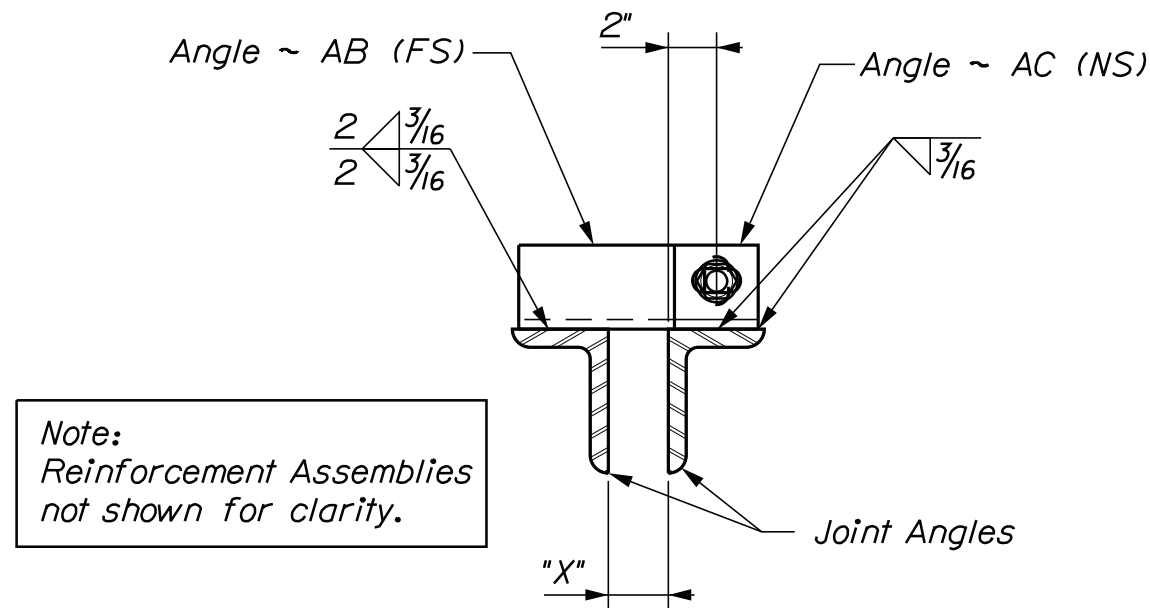
Username: gerold.libby

Division: BRIDGE

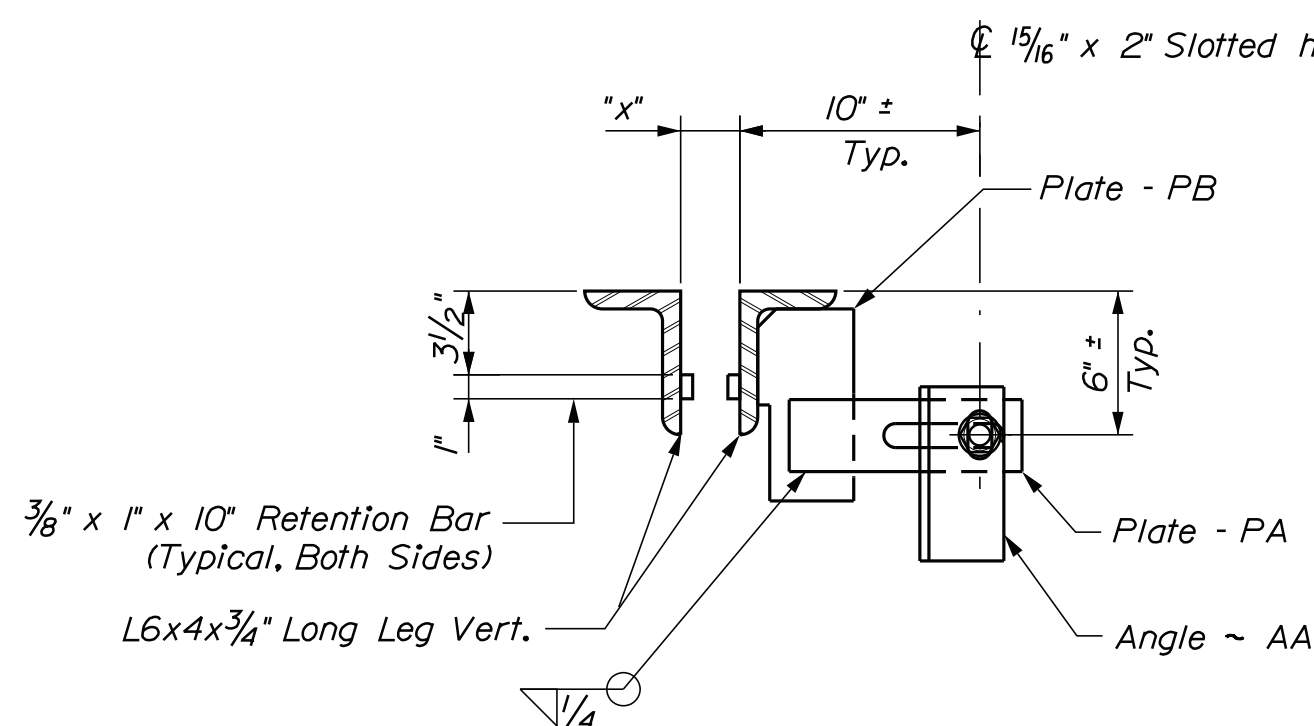
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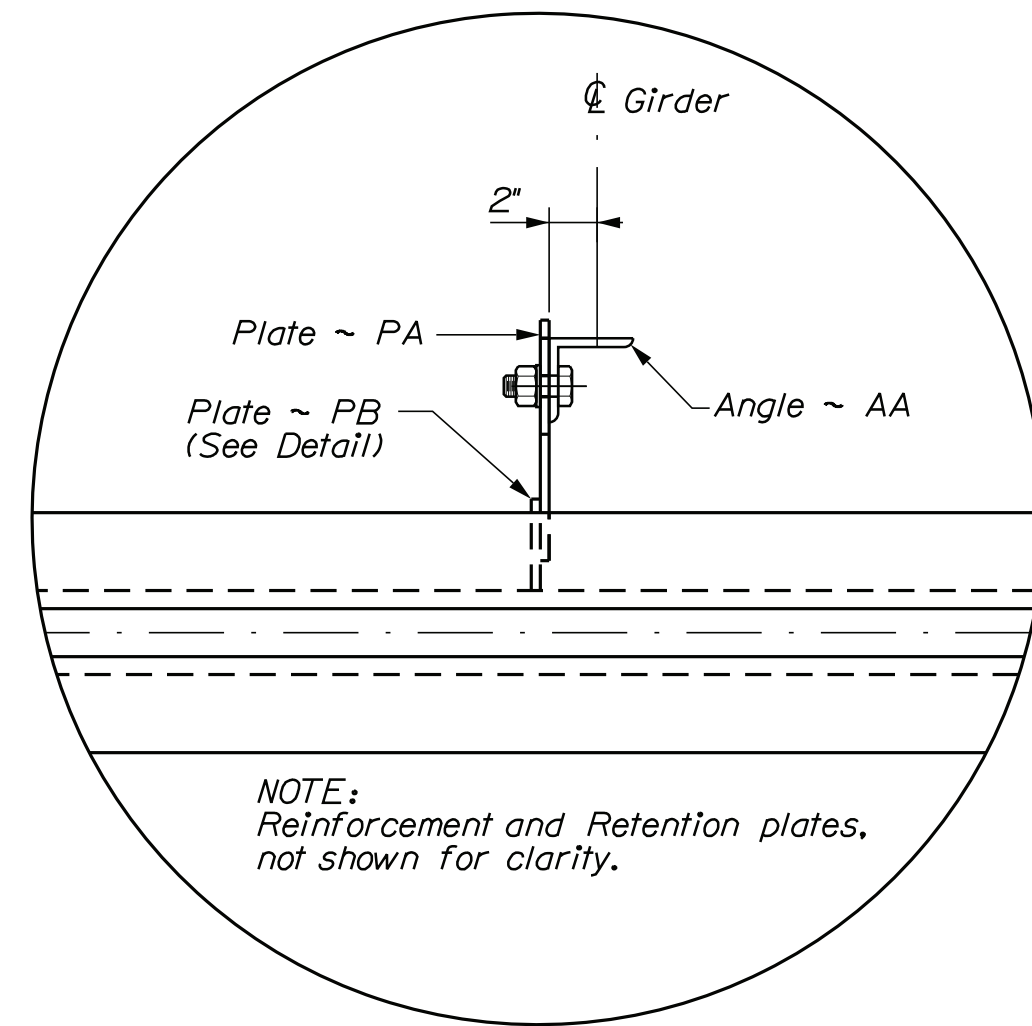
MAINE JOINT LAYOUT PLAN
(For Southern Joint)



SECTION E - E
(Typical Leveling Assembly)



SECTION F - F
(Reinforcement Assembly Not Shown for Clarity)



ADJUSTMENT ASSEMBLY DETAIL
For Abutment #2 - As Drawn,
For Abutment #1 - Rotate 180°

HEAVY DUTY JOINT NOTES

1. The Expansion Devices shall be fabricated to be installed normal to grade.
2. Prior to the installation of the seal the steel surfaces to receive the adhesive shall be blasted clean and solvent washed per the seal manufacturer's instructions.
3. The joint armor shall be furnished and installed ungalvanized.

4		SHEET NUMBER		T2 R8 NWP		PENOBSCOT		MAINE JOINT LAYOUT		BRIDGE NO. 6073		WIN 25446.00		BRIDGE JOINT PLANS	
OF 5															

