

October 4, 2019

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION  
DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID NO.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO.2019-CB-068

FEDERAL-AID PROJECT NO. FAP Nos: BHO-PRES(010)

**Bridge Group 16B - FOS, JOH, PVD, SCI**

Various locations in Foster, Johnston, Providence, and Scituate

CITY/TOWN OF Foster, Providence, Scituate, Johnston

COUNTY OF PROVIDENCE

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 1 Prospective bidders and all concerned are hereby notified of the following changes in the Plans, Specifications, Proposal and Distribution of Quantities for this contract. These changes shall be incorporated in the Plans, Specifications, Proposal and Distribution of Quantities, and shall become an integral part of the Contract Documents.

**B. Contract Dates**

1. Bid-Opening Date  
Bid-Opening Date Updated To "10/11/2019".

**C. General Provisions - Contract Specific**

1. CS-3  
Delete page CS-3 in its entirety and replace with CS-3 (R-1) attached to this Addendum No. 1. The index of contract specific specifications has been revised.
2. CS-15  
Delete page CS-15 in its entirety and replace with CS-15 (R-1) attached to this Addendum No. 1. Section 27 Environmental Notification – Bridge 146 has been added.
3. Appendix A  
Delete page 15 of 16 in its entirety and replace with signed page 15 of 16 attached to this Addendum No. 1. Signatures have been added.

**D. Specifications - Job Specific**

1. JS-2 – JS-3

Delete pages JS-2 and JS-3 in their entirety and replace with JS-2(R-1) and JS-3(R-1) attached to this Addendum No. 1. The index of job specific specifications has been revised.

2. JS-34

Delete page JS-34 in its entirety and replace with JS-34(R-1) attached to this Addendum No. 1. Specification Code 820.9901-05 High Pressure Water Cleaning – Bridge No. 274, 605, 61101, and 61121 have been revised to include graffiti removal.

3. JS-39

Delete pages JS-39 in its entirety and replace with JS-39(R-1) attached to this Addendum No. 1. Specification Code 820.9906 Concrete Surface Treatment (Protective Coating) has been revised to include graffiti removal.

4. JS-44A – JS-44B

Add page JS-44A and JS-44B in their entirety attached to this Addendum No. 1. Specification Code Temporary Traffic Plate Bridge No. 274 has been added.

5. JS-50

Delete page JS-50 in its entirety and replace with JS-50(R-1) attached to this Addendum No. 1. Specification Code 926.9901 Unanchored Barrier for Temporary Traffic Control has been revised to clarify required barrier test level and maximum deflection limits.

**E. Distribution of Quantities**

1. Index Pages

Delete page Index 1, Index 2 and Index 3 in its entirety and replace with revised pages Index 1(R-1), Index 2(R-1) and Index 3(R-1) attached to this Addendum No. 1. Items highlighted in bold have been reordered, added or deleted to the contract.

2. Pages 2, 4, 5, 6, and 14

Delete Pages 2, 4, 5, 6, and 14 in their entirety and replace with revised pages 2(R-1), 4(R-1), 5(R-1), 6(R-1), and 14(R-1) attached to this Addendum No. 1. Items in bold have been revised due to quantity changes or group location changes.

3. Page 20

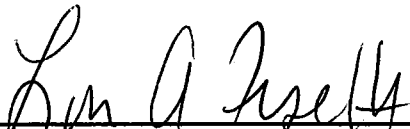
Delete Page 20 and replace with 20(R-1) attached to this Addendum No. 1. Items 201.0401 and 824.9904 have been added.

**F. Plans**

1. SHEET NO. 6 – GENERAL BRIDGE NOTES Sheet 1 of 3

Remove and replace Sheet 6 in its entirety with Sheet 6(R-1) attached to this Addendum No. 1. This sheet has been revised.

2. SHEET NO. 23 – Bridge No. 146 Route 44 over Woonasquatucket River; Johnston, RI BRIDGE SCUPPER MODIFICATION  
Remove and replace Sheet 23 in its entirety with Sheet 23(R-1) attached to this Addendum No. 1. This sheet has been revised.
3. SHEET NO. 39 – Bridge No. 232 Atwood Avenue over Simmons Brook; Johnston, RI SIDEWALK REPAIR PLAN  
Remove and replace Sheet 39 in its entirety with Sheet 39(R-1) attached to this Addendum No. 1. This sheet has been revised.
4. SHEET NO. 50 – Bridge No. 274 Colvin Street over Pawtuxet River; Scituate, RI GENERAL PLAN  
Remove and replace Sheet 50 in its entirety with Sheet 50(R-1) attached to this Addendum No. 1. This sheet has been revised.
5. SHEET NO. 51 – Bridge No. 274 Colvin Street over Pawtuxet River; Scituate, RI TYPICAL BRIDGE SECTION  
Remove and replace Sheet 51 in its entirety with Sheet 51(R-1) attached to this Addendum No. 1. This sheet has been revised.
6. SHEET NO. 52 – Bridge No. 274 Colvin Street over Pawtuxet River; Scituate, RI ABUTMENT ELEVATIONS  
Remove and replace Sheet 52 in its entirety with Sheet 52(R-1) attached to this Addendum No. 1. This sheet has been revised.
7. SHEET NO. 53 – Bridge No. 274 Colvin Street over Pawtuxet River; Scituate, RI ROADWAY JOINTS  
Remove and replace Sheet 53 in its entirety with Sheet 53(R-1) attached to this Addendum No. 1. This sheet has been revised.
8. SHEET NO. 53A – Bridge No. 274 Colvin Street over Pawtuxet River; Scituate, RI ROADWAY JOINTS Sheet 2 of 2  
Add Sheet 53A in its entirety attached to this Addendum No. 1. This sheet has been added.
9. SHEET NO. 57 – Bridge No. 274 Colvin Street over Pawtuxet River; Scituate, RI CONCRETE DECK REPAIR DETAILS  
Remove and replace Sheet 57 in its entirety with Sheet 57(R-1) attached to this Addendum No. 1. This sheet has been revised.
10. SHEET NO. 60 – Bridge No. 295 U.S. Route 6 Danielson Pike over Dolly Cole Brook; Foster, RI END POST DETAILS  
Remove and replace Sheet 60 in its entirety with Sheet 60(R-1) attached to this Addendum No. 1. This sheet has been revised.

  
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RI Department of Transportation  
Administrator, Division of Project Management

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23	Construction Access to Bridges	CS-14
24	Inspection Access	CS-15
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26	State and Local Police Compensation	CS-15
27	Environmental Notification – Bridge 146	CS-15
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All costs associated with the Contractor's means and methods for job site access and final site restoration of the site to pre-construction conditions will be considered incidental to the associated items in the proposal; there will be no separate payment for this work.

The Contractor shall not be allowed to park or store construction materials and equipment within the drip line of any existing tree.

The Contractor shall notify the Engineer of the need for tree trimming to access the Bridge. The Engineer shall coordinate with the State On-call Tree Trimming Contractor to have the trees trimmed. The Bridge Contractor shall provide two (2) weeks notice to allow the Tree Trimming Contractor time to complete the required work. No compensation for delays will be permitted based on tree trimming access.

#### **24. Inspection Access**

The Contractor shall provide the Engineer and/or his representative(s) full access to all the work sites, as may be required, for the purpose of inspection and/or construction monitoring. This shall include all necessary safety equipment such as safety harnesses and life vests. No separate payment shall be made for these services. The costs of these services and materials shall be considered incidental to the work and shall be included in the costs of the work for which they are required.

#### **25. Field Survey**

The Contractor shall be responsible for all field surveys, field measurements and project controls. No separate payment will be made for these services. The cost of this work shall be included under the item of work for which it is required.

#### **26. State and Local Police Compensation**

Upon award of the contract and approval of the schedule, but prior to the start of construction, the Contractor shall coordinate requirements for Uniformed Traffic Control Persons with the Engineer. It will be the responsibility of the Engineer to retain the services of the police with cruisers for traffic control and protection for this project. The Contractor will not be required to bid on, or to compensate for, the service of police.

#### **27. Environmental Notification – Bridge 146**

The Contractor is hereby notified of environmental contamination of the river bank soils and river sediment in the immediate vicinity of Bridge 146 and downstream of the bridge. Primary contaminant is dioxin. Care shall be taken when working on the referenced structure to minimize worker and public exposure.

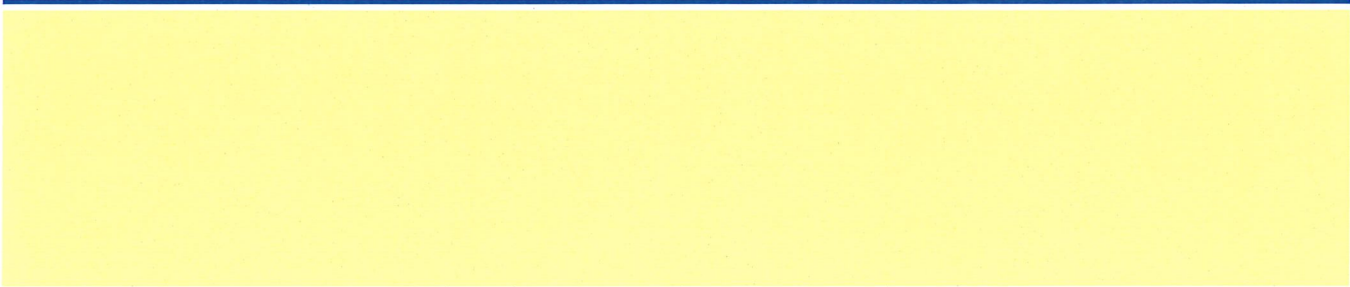
**CHANGES TO TMP & CONTINGENCY PLANS**

If at any time (1) a significant deviation from any of the strategies included in the TMP (e.g., the use of an alternate construction sequence) is desired by one or more members of the project implementation team, (2) field observations and/or data suggest that impacts to road users are or will be unacceptable, or (3) one or more performance requirements established in the TMP are not being met in the field, the RIDOT TMP Implementation Manager shall report the situation to his/her supervisor or Division/Section/Unit manager. The supervisor / manager will coordinate with the State Traffic Engineer, the Traffic Management Chief, the TMP Development and/or Implementation Manager(s), the Chief Engineer, and/or other interested parties as appropriate and/or necessary to consider and determine whether revised and/or alternate strategies should be implemented in an effort to lessen the adverse safety and/or mobility impacts of the project. If the supervisor / manager deems that strategy changes should be implemented, the changes shall be documented in a revised version of the TMP and the Traffic Management Chief, the State Traffic Engineer, and the Chief Engineer must approve of the revised TMP prior to their implementation.

If a significant deviation from any of the strategies included in the TMP is requested by the Contractor, unless directed otherwise by the RIDOT the Contractor is responsible for preparing and submitting to the RIDOT TMP Implementation Manager appropriate documentation (e.g., design calculations, analysis reports, Temporary Traffic Control Plans, etc.) showing that the requested change(s) are (1) feasible and (2) expected to result in safety and mobility impacts that are no more adverse than the impacts resulting from the strategies already included in the latest approved TMP. The RIDOT will review and consider the submittal(s) as described in the preceding paragraph and will determine whether the changes should be implemented. If the requested changes are approved by the RIDOT, unless otherwise directed by the RIDOT the Contractor shall prepare and submit to the RIDOT TMP Implementation Manager a revised version of the latest approved TMP in both printed and electronic (Microsoft® Excel) format that documents all of the approved changes. Work to implement the changes shall not begin until the Traffic Management Chief, the State Traffic Engineer, and the Chief Engineer have approved of the revised TMP.

When unexpected events (e.g., crashes, inclement weather, unforeseen traffic demands, etc.) occur in a project work zone where one or more lanes are closed, the RIDOT TMP Implementation Manager or his/her responsible designee should (1) determine whether or not the lane closure(s) can/should be removed in order to improve traffic operations and/or minimize delays and (2) if deemed appropriate, take action to remove the lane closure(s).

**Project Specific Contingencies**



**TMP APPROVALS**

*All approvals must be obtained prior to start of work.*

ADMINISTRATOR PROJECT MANAGEMENT		
Signature:	<i>David W. Fish</i>	
	David W. Fish, PE	
Date:	9-6-19	
Revision #	Initials	Date

STATE TRAFFIC SAFETY ENGINEER		
Signature:	<i>Steven Pristava</i>	
	Steven Pristava, PE	
Date:	8-30-19	
Revision #	Initials	Date

CHIEF ENGINEER		
Signature:	<i>Robert Rocchio</i>	
	Robert Rocchio, PE	
Date:	9-10-19	
Revision #	Initials	Date

**INDEX**  
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RIC No. 2019-CB-068

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108.03	Prosecution and Progress	JS-6
108.1000	Prosecution and Progress	JS-7
109	Measurement and Payment	JS-8
109.04	Differing Site Conditions, Changes, Extra Work and Force Account	JS-9
109.06	Payment of Work	JS-13
206.9901	Catch Basin Inlet Protection	JS-19
212.2000	Cleaning and Maintenance of Erosion and Pollution Controls	JS-22
401.9902	Remove and Replace Overlay and Waterproofing Membrane Bridge No. 274	JS-24
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**CODE 820.9901**  
**HIGH PRESSURE WATER CLEANING – BRIDGE NO. 274**  
**CODE 820.9903**  
**HIGH PRESSURE WATER CLEANING – BRIDGE NO. 605**  
**CODE 820.9904**  
**HIGH PRESSURE WATER CLEANING – BRIDGE NO. 61101**  
**CODE 820.9905**  
**HIGH PRESSURE WATER CLEANING – BRIDGE NO. 61121**

**DESCRIPTION:** This work shall consist of the removal of all organic matter, bird droppings, efflorescence, graffiti and all other foreign particles, including but not limited to sand, salt, and debris accumulated on all specified bridge surfaces. Bridge surfaces to be cleaned through the application of a high pressure water spray shall include but not limited to:

- Roadway surface, from face of curb/barrier to shoulder line or 4'-0" from face of curb/barrier, whichever is greater;
  - Roadway surfaces that are indicated in the plans to receive new wearing surface shall be exempt from bridge washing
- Barriers, parapets, sidewalks, curbing;
- Structural steel, including bearing devices;
- Concrete beams and diaphragms;
- Backwalls, beam seats, abutment and wingwall faces, piers in their entirety;
- Slope paving, drainage features, and other bridge components as directed by the Engineer

The limits of this work are as shown on the plans as described above, and as directed by the Engineer.

The contractor should not attempt to remove sealant, or any other weatherproof or waterproof coating during high pressure washing operations. Removal of bird droppings shall be in accordance with Code 826.9901 Management of Pigeon Guano And Mixed Debris and the cost of the bird dropping removal shall be included as part of this section for each bridge. Protection of any utilities and traffic devices shall be included as part of this section for each bridge.

**MATERIALS AND EQUIPMENT:** The cleaning equipment shall include the necessary high pressure water cleaning equipment and all ancillary equipment necessary to flush, clean and remove all foreign material from the bridge, including hand tools, compressors, water tanks and water pumps. The contractor shall determine the method and equipment, subject to the approval of the Engineer, which is best suited to complete the cleaning operation.

The high-pressure water cleaning equipment shall have sufficient controls to vary the water pressure such that it can be adjusted to clean the bridge surfaces without damaging the structure. The equipment shall be capable of producing a water pressure of up to 5000 psi, and shall have a functional pressure gage incremented in a manner such that pressure can be adjusted and maintained consistently. A sufficient variety of nozzle tips and accessories shall be available to ensure that the spray can be applied uniformly to all applicable parts of the structure. The tip shall not concentrate the spray at less than 25 degrees to the surface.

**CODE 820.9906**

**CONCRETE SURFACE TREATMENT (PROTECTIVE COATING)**

**DESCRIPTION:** The work under this item shall consist of furnishing, applying, and curing clear concrete penetrating sealant to all concrete surfaces below the decks, traffic side face of concrete parapets, and as designated on the Plans. The work shall be performed in accordance with the contract drawings, the Rhode Island Standard Specifications for Road and Bridge Construction, Amended December 2018, all applicable compilations of approved specifications, as modified by this special provision, and as directed by the Engineer. This item shall also include the necessary surface preparation, including graffiti removal, as described herein, as shown on the plans, or as directed by the Engineer. Any high pressure water cleaning required for surface preparation for concrete surface treatment (protective coating) shall be included and paid under Item Code 820.9901-9905 “High Pressure Water Cleaning – Bridge No. 274, 295, 605, 61101, & 61102.”

**MATERIALS:** All materials shall meet the requirements of Section 820 of the RI Standard Specifications for Penetrant Sealers.

**CONSTRUCTION METHODS:**

All construction methods shall be in accordance with the manufacturer’s recommendations and requirements as well as Section 820 of the RI Standard Specification. In case of a conflict between the Standard specification and the manufacturer’s recommendations and requirements, the most stringent requirement shall govern. Any high pressure water cleaning shall be per the requirements Item No. 820.9901-9905 “High Pressure Water Cleaning – Bridge No. 274, 295, 605, 61101, & 61102” and shall be paid under said item.

**METHOD OF MEASUREMENT:** This work will be measured for payment by the numbers of square feet of “Concrete Surface Treatment (Protective Coating)” complete and accepted in place within the lines shown on the plans or as directed by the Engineer.

**BASIS OF PAYMENT:** The quantity determined under “Method of Measurement” section will be paid for at the contract unit price per square feet of “Concrete Surface Treatment (Protective Coating)” complete in place including all surface preparation, application of Surface Treatment, materials, equipment, tools, labor and incidental expense.

**CODE 824.9904**  
**TEMPORARY TRAFFIC PLATE BRIDGE NO. 274**

**DESCRIPTION:**

The work under this item shall consist of furnishing and installing temporary roadway traffic plates bolted to the concrete deck and/or approach slab as required to build deck over backwall modifications, link slabs, and roadway joints at the abutments and piers. This item shall also include all blocking, inserts, anchor bolts, movement of the plates as necessary and associated maintenance to complete the work in accordance with these Special Provisions and as detailed on the contract drawings.

**MATERIALS:**

All materials shall conform to the following requirements:

1. The steel traffic plate shall meet the requirements of AASHTO Designation M270 Grade 36 or M270 Grade 50.
2. All bolts shall meet the requirements of ASTM F3125 Grade A325 or A490 Type 1.
3. All concrete inserts shall be capable of developing the full strength of the bolt.

All steel plate surface exposed to traffic shall be coated with a thin polymer resin overlay broadcast with a wearing aggregate for vehicular traffic.

**CONSTRUCTION METHODS:**

The entire traffic plate including inserts shall be furnished and installed in a sequence consistent with the established maintenance and protection of traffic plan and the restrictions noted in the contract TMP and CS pages.

The traffic plates shall be detailed such that removal and placement of the plates before commencement and after completion of the work is performed expeditiously and in such a manner as to not endanger the motoring public.

The Contractor shall at all times maintain the plates (including concrete inserts and bolts), as may be required for the duration of the work.

The contractor shall submit shop drawings and supporting calculations detailing the temporary traffic plate consistent with the proposed sequence of construction. The steel plate shall be so detailed such that the head of the bolts are flush with the top of the temporary plate. Shop drawings and calculations shall include at a minimum plate thickness and bolt spacing and shall be prepared by a professional engineer registered in State of Rhode Island.

The entire traffic plate system shall be dismantled after the completion of the work and any bolt holes in the deck shall be repaired using an approved non-shrink grout to the satisfaction of the Engineer. The steel plates shall become the property of the Contractor.

**METHOD OF MEASUREMENT:**

Work under Item 824.9904 will be measured and paid for at the Contract unit price per “LUMP SUM.”

**BASIS OF PAYMENT:**

Item code 824.9904 “TEMPORARY TRAFFIC PLATE – BRIDGE NO. 274 will be paid for at respective contract unit price per “Lump Sum” as listed in the Proposal. The prices so stated shall constitute full and complete compensation for furnishing and installing temporary roadway traffic plates bolted to the concrete deck and/or approach slab as required to build deck over backwall modifications, link slabs, and roadway joints at the abutments and piers, all labor, tools, materials, equipment, and all other incidentals required to complete the work as described in these Special Provisions and elsewhere in the Contract Documents, complete and accepted by the Engineer.

**CODE 926.9901**

**UNANCHORED BARRIER FOR TEMPORARY TRAFFIC CONTROL**

**DESCRIPTION:**

The Contractor shall furnish and install Temporary Barriers at locations shown on the plans and as directed by the Engineer. The Temporary Barriers shall meet the requirements of AASHTO Manual for Assessing Safety Hardware (MASH) and be accepted by the Federal Highway Administration.

**MATERIALS:**

Portland cement concrete and reinforcing shall conform to the requirements of Subsection 909.02.01. Barrier units comprising of other materials, such as steel, plastic, etc., may also be used upon approval of the Engineer.

All Temporary Barrier shall conform to the performance requirements contained in the 2016 edition of the Manual for Assessing Safety Hardware (MASH) which includes steel or concrete type temporary barrier.

The Temporary Barrier shall be designed based on the minimum test level requirements from the table below:

<b>Roadway</b>	<b>Temporary Barrier Minimum Test Level</b>	<b>Maximum Deflection Limit</b>
US Route 6*	TL-4	4 ft
All other roadways	TL-3	4 ft

*\*Between I-295 and Route 10*

Before installation, the Contractor shall submit a copy of the manufacturer's documents indicating satisfactory testing in accordance with MASH Test Level 3 rating and/or its subsequent revisions, and a copy of the approval by the FHWA for use of the impact attenuator as intended.

Delineators shall have a minimum of 9 square inches of reflective surface area. The unit shall be capable of being mounted on the side of barrier by use of an adhesive or other method approved by the manufacturer. Such delineators may be one of those products which appear on the Department's Approved Material List.

No work shall commence under these items until all documents have been approved by the Engineer.

**EXECUTION:**

The Contractor shall submit its chosen temporary barrier system, including the FHWA test level approval level and any details for transitional areas to any existing barrier system, to the Engineer

**Table of Contents - Distribution of Quantities**

Project Name - Bridge Group 16B - FOS, JOH, PVD, SCI

Estimate Name - BGL6B - Addendum 1

R.I. Contract No. - 2019-CB-068

FAP Nos: BHO-PRES(010)

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<b>202.0800</b>	<b>GRAVEL BORROW</b>	<b>2</b>
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Estimate Name - BGL6B - Addendum 1

R.I. Contract No. - 2019-CB-068

FAP Nos: BHO-PRES(010)

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905.0110	PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD 43.1.0	13
905.0140	BITUMINOUS SIDEWALK STANDARD 43.2.0	13
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914.5010	FLAGPERSONS	14
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920.0055	PLACED STONE RIPRAP R-3, R-4, R-5 STANDARD 8.3.0	15
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922.0100	TEMPORARY CONSTRUCTION SIGNS STANDARD 29.1.0 AND 27.1.1	15
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Estimate Name - BGL6B - Addendum 1

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T20.2406	6 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS	19
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T20.4506	REMOVE PAVEMENT MARKING LINE - LESS THAN OR EQUAL TO 6 INCHES WIDE	20
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824.9904	TEMPORARY TRAFFIC PLATE BRIDGE 274	20



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 Estimate Name - BG16B - Addendum 1  
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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
001	201.0321	<b>CLEARING AND GRUBBING</b>	<b>SY</b>			
		BRIDGE GROUP 16B				
		BRIDGE 295		20.00	0014	01
<b>Item 201.0321 Total:</b>				<b>20.00</b>		
002	201.0402	<b>REMOVE AND DISPOSE CONCRETE CURB</b>	<b>LF</b>			
		BRIDGE GROUP 16B				
		BRIDGE 83		40.00	0014	01
<b>Item 201.0402 Total:</b>				<b>40.00</b>		
003	201.0403	<b>REMOVE AND DISPOSE SIDEWALKS</b>	<b>SY</b>			
		BRIDGE GROUP 16B				
		BRIDGE 232		18.00	0014	01
		BRIDGE 317		227.00	0014	01
		BRIDGE 83		30.00	0014	01
<b>Item 201.0403 Total:</b>				<b>275.00</b>		
004	201.0415	<b>REMOVE AND DISPOSE GUARDRAIL AND POST ALL TYPES</b>	<b>LF</b>			
		BRIDGE GROUP 16B				
		BRIDGE 295		20.00	0014	01
<b>Item 201.0415 Total:</b>				<b>20.00</b>		
005	201.9901	<b>REMOVE AND DISPOSE OF EXISTING JOINT FILLER</b>	<b>LF</b>			
		BRIDGE GROUP 16B				
		BRIDGE 610		110.00	0014	01
<b>Item 201.9901 Total:</b>				<b>110.00</b>		
006	202.0300	<b>UNCLASSIFIED EXCAVATION</b>	<b>CY</b>			
		BRIDGE GROUP 16B				
		BRIDGE 295		5.00	0014	01
<b>Item 202.0300 Total:</b>				<b>5.00</b>		

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
007	202.0800	<b>GRAVEL BORROW</b>	<b>CY</b>			
		BRIDGE GROUP 16B				
		BRIDGE 146		1.00	0014	01
		BRIDGE 232			0014	01
		BRIDGE 83			0014	01
<b>Item 202.0800 Total:</b>				<b>1.00</b>		
008	203.0400	<b>STRUCTURAL EXCAVATION UNCLASSIFIED</b>	<b>CY</b>			
		BRIDGE GROUP 16B				
		BRIDGE 146		3.00	0014	01
		BRIDGE 274		2.00	0014	01
<b>Item 203.0400 Total:</b>				<b>5.00</b>		
009	206.9901	<b>CATCH BASIN INLET PROTECTION</b>	<b>EACH</b>			
		BRIDGE GROUP 16B				
		BRIDGE 146		5.00	0014	01
		BRIDGE 232		2.00	0014	01
		BRIDGE 61101		4.00	0014	01
		BRIDGE 61121		4.00	0014	01
		BRIDGE 83		4.00	0014	01
<b>Item 206.9901 Total:</b>				<b>19.00</b>		
010	212.2100	<b>MAINTENANCE AND CLEANING OF EROSION AND POLLUTION CONTROLS</b>	<b>LS</b>			
		BRIDGE GROUP 16B				
		PROJECT WIDE		1.00	0014	01
<b>Item 212.2100 Total:</b>				<b>1.00</b>		
011	401.2000	<b>CLASS 12.5 HMA</b>	<b>TON</b>			
		BRIDGE GROUP 16B				
		BRIDGE 146		25.00	0014	01
<b>Item 401.2000 Total:</b>				<b>25.00</b>		

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 R.I. Contract No. - 2019-CB-068  
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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
012	401.2003	<b>CLASS 12.5 HMA FOR PATCHING</b>	<b>TON</b>			
		BRIDGE GROUP 16B				
		BRIDGE 232		0.70	0014	01
		BRIDGE 83		0.30	0014	01
<b>Item 401.2003 Total:</b>				<b>1.00</b>		
013	401.9901	<b>MODIFIED CLASS 9.5 HMA FOR BRIDGE DECKS</b>	<b>TON</b>			
		BRIDGE GROUP 16B				
		BRIDGE 61101		2.50	0014	01
		BRIDGE 61121		2.50	0014	01
<b>Item 401.9901 Total:</b>				<b>5.00</b>		
014	401.9902	<b>REMOVE AND REPLACE OVERLAY AND WATERPROOF MEMBRANE BRIDGE NO. 274</b>	<b>LS</b>			
		BRIDGE GROUP 16B				
		BRIDGE 274		1.00	0014	01
<b>Item 401.9902 Total:</b>				<b>1.00</b>		
015	403.0300	<b>ASPHALT EMULSION TACK COAT</b>	<b>SY</b>			
		BRIDGE GROUP 16B				
		BRIDGE 146		230.00	0014	01
		BRIDGE 61101		7.50	0014	01
		BRIDGE 61121		7.50	0014	01
		BRIDGE 83		5.00	0014	01
<b>Item 403.0300 Total:</b>				<b>250.00</b>		
016	501.0103	<b>PORTLAND CEMENT CONCRETE BASE</b>	<b>SY</b>			
		BRIDGE GROUP 16B				
		BRIDGE 232		3.00	0014	01
		BRIDGE 83		7.00	0014	01
<b>Item 501.0103 Total:</b>				<b>10.00</b>		

### Distribution of Quantities

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 Estimate Name - BG16B - Addendum 1  
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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
017	708.9041	<b>CLEANING CATCH BASINS ALL TYPES</b>	<b>EACH</b>			
		<b>AND SIZES</b>				
		BRIDGE GROUP 16B				
		BRIDGE 146		4.00	0014	01
		<b>Item 708.9041 Total:</b>		<b>4.00</b>		
018	713.8269	<b>ADJUST WATER GATE BOXES TO GRADE</b>	<b>EACH</b>			
		BRIDGE GROUP 16B				
		BRIDGE 232		1.00	0014	01
		<b>Item 713.8269 Total:</b>		<b>1.00</b>		
019	713.8300	<b>ADJUST GAS GATE BOXES TO GRADE</b>	<b>EACH</b>			
		BRIDGE GROUP 16B				
		BRIDGE 232		2.00	0014	01
		<b>Item 713.8300 Total:</b>		<b>2.00</b>		
020	800.9901	<b>MISCELLANEOUS BRIDGE REPAIRS</b>	<b>LS</b>			
		BRIDGE GROUP 16B				
		PROJECT WIDE		1.00	0014	01
		<b>Item 800.9901 Total:</b>		<b>1.00</b>		
021	803.0300	<b>PARTIAL REMOVAL AND DISPOSAL OF</b>	<b>CY</b>			
		<b>EXISTING CONCRETE MASONRY</b>				
		BRIDGE GROUP 16B				
		BRIDGE 146		1.50	0014	01
		BRIDGE 274		17.00	0014	01
		BRIDGE 295		2.50	0014	01
		<b>Item 803.0300 Total:</b>		<b>21.00</b>		
022	803.9901	<b>REMOVE AND DISPOSE EXISTING DECK</b>	<b>LS</b>			
		<b>JOINT</b>				
		BRIDGE GROUP 16B				
		BRIDGE 274		0.34	0014	01

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 Estimate Name - BGI6B - Addendum 1  
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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
022	803.9901 Cont.	BRIDGE 61101		0.33	0014	01
		BRIDGE 61121		0.33	0014	01
<b>Item 803.9901 Total:</b>				<b>1.00</b>		
023	807.0350	<b>POINTING &amp; GROUTING MASONRY</b>	<b>LF</b>			
		BRIDGE GROUP 16B				
		BRIDGE 233		70.00	0014	01
		BRIDGE 252		65.00	0014	01
<b>Item 807.0350 Total:</b>				<b>135.00</b>		
024	807.9901	<b>MASONRY VOID REPAIR</b>	<b>CY</b>			
		BRIDGE GROUP 16B				
		BRIDGE 233		1.00	0014	01
<b>Item 807.9901 Total:</b>				<b>1.00</b>		
025	808.0322	<b>CONCRETE SUBSTRUCTURE CLASS HP</b>	<b>CY</b>			
		<b>3/4'' END POSTS</b>				
		BRIDGE GROUP 16B				
		BRIDGE 295		3.00	0014	01
<b>Item 808.0322 Total:</b>				<b>3.00</b>		
026	808.1200	<b>CONCRETE SUPERSTRUCTURE CLASS HP</b>	<b>CY</b>			
		<b>3/4''</b>				
		BRIDGE GROUP 16B				
		BRIDGE 146		2.50	0014	01
		BRIDGE 274		17.50	0014	01
<b>Item 808.1200 Total:</b>				<b>20.00</b>		
027	808.1642	<b>PREFORMED POLYETHYLENE FOAM JOINT</b>	<b>SF</b>			
		<b>FILLER 1''</b>				
		BRIDGE GROUP 16B				
		BRIDGE 274		60.00	0014	01
		BRIDGE 610		50.00	0014	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
027	808.1642	Cont.				
				<b>Item 808.1642 Total:</b>		<b>110.00</b>
028	808.1644	<b>PREFORMED POLYETHYLENE FOAM JOINT</b>	<b>SF</b>			
		<b>FILLER 1-1/2''</b>				
		BRIDGE GROUP 16B				
		BRIDGE 274		80.00	0014	01
				<b>Item 808.1644 Total:</b>		<b>80.00</b>
029	808.1675	<b>POLYURETHANE ELASTOMERIC JOINT</b>	<b>CI</b>			
		<b>SEALANT</b>				
		BRIDGE GROUP 16B				
		BRIDGE 274		550.00	0014	01
				<b>Item 808.1675 Total:</b>		<b>550.00</b>
030	810.0210	<b>GALVANIZED BAR REINFORCEMENT GRADE</b>	<b>LBS</b>			
		<b>60</b>				
		BRIDGE GROUP 16B				
		BRIDGE 146		105.00	0014	01
		BRIDGE 274		2,375.00	0014	01
		BRIDGE 295		420.00	0014	01
				<b>Item 810.0210 Total:</b>		<b>2,900.00</b>
031	811.1400	<b>THERMOPLASTIC PIPE 2 INCH</b>	<b>LF</b>			
		<b>COMMERCIAL GRADE PLASTIC</b>				
		BRIDGE GROUP 16B				
		BRIDGE 274		10.00	0014	01
				<b>Item 811.1400 Total:</b>		<b>10.00</b>
032	813.0210	<b>HEAT-APPLIED PREFABRICATED MEMBRANE SY</b>				
		BRIDGE GROUP 16B				
		BRIDGE 61101		12.50	0014	01
		BRIDGE 61121		12.50	0014	01
				<b>Item 813.0210 Total:</b>		<b>25.00</b>

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
033	817.2112	REPAIRS TO STRUCTURE CONCRETE	CF			
		MASONRY - PATCHING MORTAR				
		BRIDGE GROUP 16B				
		BRIDGE 083		7.00	0014	01
		BRIDGE 091		6.00	0014	01
		BRIDGE 146		45.00	0014	01
		BRIDGE 274		5.00	0014	01
		BRIDGE 295		12.00	0014	01
		BRIDGE 61101		55.00	0014	01
		BRIDGE 61121		70.00	0014	01
		<b>Item 817.2112 Total:</b>		<b>200.00</b>		
034	817.2142	REPAIRS TO STRUCTURE CONCRETE	CF			
		MASONRY - FORM AND CAST IN PLACE				
		CONCRETE				
		BRIDGE GROUP 16B				
		BRIDGE 146		2.00	0014	01
		BRIDGE 274		4.00	0014	01
		BRIDGE 295		4.00	0014	01
		BRIDGE 61101		12.00	0014	01
		BRIDGE 61121		18.00	0014	01
		<b>Item 817.2142 Total:</b>		<b>40.00</b>		
035	817.9901	REPAIRS TO PRESTRESSED CONCRETE	SF			
		GIRDERS				
		BRIDGE GROUP 16B				
		BRIDGE 605		80.00	0014	01
		<b>Item 817.9901 Total:</b>		<b>80.00</b>		
036	818.2010	PORTLAND CEMENT CONCRETE DECK	SF			
		REPAIRS (FULL DEPTH REMOVAL)				
		BRIDGE GROUP 16B				
		BRIDGE 274		25.00	0014	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
036	818.2010	Cont.				
		Item 818.2010 Total:		25.00		
037	819.0800	DRILL AND GROUT REINFORCING DOWELS	EACH			
		BRIDGE GROUP 16B				
		BRIDGE 146		25.00	0014	01
		BRIDGE 274		65.00	0014	01
		BRIDGE 295		40.00	0014	01
		Item 819.0800 Total:		130.00		
038	820.9901	HIGH PRESSURE WATER CLEANING -	LS			
		BRIDGE NO. 274				
		BRIDGE GROUP 16B				
		BRIDGE 274		1.00	0014	01
		Item 820.9901 Total:		1.00		
039	820.9902	HIGH PRESSURE WATER CLEANING OF	LS			
		HISTORIC BRIDGE STRUCTURE - BRIDGE				
		NO. 295				
		BRIDGE GROUP 16B				
		BRIDGE 295		1.00	0014	01
		Item 820.9902 Total:		1.00		
040	820.9903	HIGH PRESSURE WATER CLEANING -	LS			
		BRIDGE NO. 605				
		BRIDGE GROUP 16B				
		BRIDGE 605		1.00	0014	01
		Item 820.9903 Total:		1.00		
041	820.9904	HIGH PRESSURE WATER CLEANING -	LS			
		BRIDGE NO. 61101				
		BRIDGE GROUP 16B				
		BRIDGE 61101		1.00	0014	01
		Item 820.9904 Total:		1.00		



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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
042	820.9905	HIGH PRESSURE WATER CLEANING -	LS			
		BRIDGE NO. 61121				
		BRIDGE GROUP 16B				
		BRIDGE 61121		1.00	0014	01
		<b>Item 820.9905 Total:</b>		<b>1.00</b>		
043	820.9906	CONCRETE SURFACE TREATMENT	SF			
		(PROTECTIVE COATING)				
		BRIDGE GROUP 16B				
		BRIDGE 083		20.00	0014	01
		BRIDGE 091		25.00	0014	01
		BRIDGE 146		3,100.00	0014	01
		BRIDGE 274		2,355.00	0014	01
		<b>Item 820.9906 Total:</b>		<b>5,500.00</b>		
S044	820.9907	CONCRETE SURFACE TREATMENT (ASR	SF			
		COATING)				
		BRIDGE GROUP 16B				
		BRIDGE 295		2,200.00	0014	01
		<b>Item 820.9907 Total:</b>		<b>2,200.00</b>		
045	821.1690	SAW & SEALING JOINTS IN BITUMINOUS	LF			
		CONCRETE PAVEMENT				
		BRIDGE GROUP 16B				
		BRIDGE 146		90.00	0014	01
		BRIDGE 317		136.00	0014	01
		BRIDGE 61101		107.00	0014	01
		BRIDGE 61121		107.00	0014	01
		<b>Item 821.1690 Total:</b>		<b>440.00</b>		
046	823.1750	ASPHALTIC EXPANSION JOINT SYSTEM	LF			
		BRIDGE GROUP 16B				
		BRIDGE 61101		110.00	0014	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
046	823.1750	Cont. BRIDGE 61121		110.00	0014	01
Item 823.1750 Total:				220.00		
047	823.1760	STRIP SEAL EXPANSION JOINT ASSEMBLIES BRIDGE GROUP 16B BRIDGE 274	LF	30.00	0014	01
Item 823.1760 Total:				30.00		
048	824.9901	STEEL GIRDER REPAIRS BRIDGE NO. 274 LBS BRIDGE GROUP 16B BRIDGE 274		1,100.00	0014	01
Item 824.9901 Total:				1,100.00		
049	824.9902	STEEL GIRDER REPAIRS BRIDGE NO. 61101 BRIDGE GROUP 16B BRIDGE 61101	LBS	80.00	0014	01
Item 824.9902 Total:				80.00		
050	824.9903	STEEL GIRDER REPAIRS BRIDGE NO. 61121 BRIDGE GROUP 16B BRIDGE 61121	LBS	80.00	0014	01
Item 824.9903 Total:				80.00		
051	825.9901	REPAINTING EXISTING STRUCTURAL STEEL - BRIDGE NO. 274 BRIDGE GROUP 16B BRIDGE 274	LS	1.00	0014	01
Item 825.9901 Total:				1.00		
052	825.9902	REPAINTING STRUCTURL STEEL -	LS			

### Distribution of Quantities

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
052	825.9902	Cont. BRIDGE NO. 61101				
		BRIDGE GROUP 16B				
		BRIDGE 61101		1.00	0014	01
<b>Item 825.9902 Total:</b>				<b>1.00</b>		
053	825.9903	REPAINTING EXISTING STRUCTURAL STEEL - BRIDGE NO 61121	LS			
		BRIDGE GROUP 16B				
		BRIDGE 61121		1.00	0014	01
<b>Item 825.9903 Total:</b>				<b>1.00</b>		
054	826.0100	CONTAINMENT, COLLECTION, STORAGE AND DISPOSAL OF DEBRIS AND SPENT MATERIALS	LS			
		BRIDGE GROUP 16B				
		PROJECT WIDE		1.00	0014	01
<b>Item 826.0100 Total:</b>				<b>1.00</b>		
055	826.0200	PERSONNEL PROTECTION DURING PAINTING AND CLEANING OPERATIONS	LS			
		BRIDGE GROUP 16B				
		BRIDGE 274		0.34	0014	01
		BRIDGE 61101		0.33	0014	01
		BRIDGE 61121		0.33	0014	01
<b>Item 826.0200 Total:</b>				<b>1.00</b>		
056	833.0400	GRANITE IDENTIFICATION TABLETS	EACH			
		BRIDGE GROUP 16B				
		BRIDGE 274		2.00	0014	01
		BRIDGE 295		2.00	0014	01
<b>Item 833.0400 Total:</b>				<b>4.00</b>		
057	835.0210	DECK SCUPPERS SINGLE COMPLETE WITH	EACH			

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 Estimate Name - BG16B - Addendum 1  
 R.I. Contract No. - 2019-CB-068  
 FAP Nos: BHO-PRES(010)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
057	835.0210	Cont. DOWNSPOUT				
		BRIDGE GROUP 16B				
		BRIDGE 146		2.00	0014	01
				<b>Item 835.0210 Total:</b>		<b>2.00</b>
058	836.0100	STRUCTURAL CONCRETE CRACK REPAIR BY EPOXY-RESIN BASE ADHESIVE INJECTION	LF			
		BRIDGE GROUP 16B				
		BRIDGE 091		6.00	0014	01
		BRIDGE 146		9.00	0014	01
				<b>Item 836.0100 Total:</b>		<b>15.00</b>
059	839.0100	PARTIAL-DEPTH REMOVAL AND DISPOSAL OF BITUMINOUS PAVEMENT FROM CONCRETE BRIDGE DECKS	SY			
		BRIDGE GROUP 16B				
		BRIDGE 146		230.00	0014	01
				<b>Item 839.0100 Total:</b>		<b>230.00</b>
060	839.0200	FULL DEPTH REMOVAL AND DISPOSAL OF BITUMINOUS PAVEMENT FROM CONCRETE BRIDGE DECKS	SY			
		BRIDGE GROUP 16B				
		BRIDGE 61101		10.00	0014	01
		BRIDGE 61121		10.00	0014	01
				<b>Item 839.0200 Total:</b>		<b>20.00</b>
061	842.0100	ANTI-GRAFFITI COATING	SF			
		BRIDGE GROUP 16B				
		BRIDGE 605		9,000.00	0014	01
				<b>Item 842.0100 Total:</b>		<b>9,000.00</b>

### Distribution of Quantities

Project Name - Bridge Group 16B - FOS, JOH, PVD, SCI  
 Estimate Name - BG16B - Addendum 1  
 R.I. Contract No. - 2019-CB-068  
 FAP Nos: BHO-PRES(010)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
062	901.0161	GUARDRAIL STEEL BEAM POST (IN EARTH AND ASPHALT) BRIDGE GROUP 16B BRIDGE 295	EACH	2.00	0014	01
Item 901.0161 Total:				2.00		
063	901.0193	GUARDRAIL STEEL BEAM SINGLE FACE STANDARD 34.2.0 BRIDGE GROUP 16B BRIDGE 295	LF	20.00	0014	01
Item 901.0193 Total:				20.00		
064	901.0197	GUARDRAIL CONNECTION TO EXISTING ENDPOST APPROACH END SECTION, STANDARD 34.3.5 BRIDGE GROUP 16B BRIDGE 295	EACH	2.00	0014	01
Item 901.0197 Total:				2.00		
065	903.0410	TEMPORARY CHAIN LINK FENCE BRIDGE GROUP 16B BRIDGE 146	LF	300.00	0014	01
Item 903.0410 Total:				300.00		
066	905.0110	PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD 43.1.0 BRIDGE GROUP 16B BRIDGE 083 BRIDGE 232	CY	4.00 2.00	0014 0014	01 01
Item 905.0110 Total:				6.00		
067	905.0140	BITUMINOUS SIDEWALK STANDARD 43.2.0 TON BRIDGE GROUP 16B				

### Distribution of Quantities

Project Name - Bridge Group 16B - FOS, JOH, PVD, SCI  
 Estimate Name - BGI6B - Addendum 1  
 R.I. Contract No. - 2019-CB-068  
 FAP Nos: BHO-PRES(010)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
067	905.0140	Cont. BRIDGE 317		50.00	0014	01
<b>Item 905.0140 Total:</b>				<b>50.00</b>		
068	906.0110	GRANITE CURB, QUARRY SPLIT STRAIGHT, STANDARD 7.3.0 BRIDGE GROUP 16B BRIDGE 232	LF	20.00	0014	01
<b>Item 906.0110 Total:</b>				<b>20.00</b>		
069	906.0240	CEMENT CONCRETE CURB TYPES 10'' X 10'' STRAIGHT BRIDGE GROUP 16B BRIDGE 83	LF	50.00	0014	01
<b>Item 906.0240 Total:</b>				<b>50.00</b>		
070	906.0700	REMOVE, HANDLE, HAUL TRIM RESET CURB EDGING, STRAIGHT, CIRCULAR ALL TYPES BRIDGE GROUP 16B BRIDGE 232	LF		0014	01
<b>Item 906.0700 Total:</b>				<b>**DELETED**</b>		
071	907.0100	WATER FOR DUST CONTROL BRIDGE GROUP 16B BRIDGE 146	MGAL	1.00	0014	01
<b>Item 907.0100 Total:</b>				<b>1.00</b>		
072	914.5010	FLAGPERSONS BRIDGE GROUP 16B BRIDGE 146 BRIDGE 232 BRIDGE 274 BRIDGE 295	MHRS	50.00 50.00 3,552.00 50.00	0014	01 01 01 01

### Distribution of Quantities

Project Name - Bridge Group 16B - FOS, JOH, PVD, SCI  
 Estimate Name - BG16B - Addendum 1  
 R.I. Contract No. - 2019-CB-068  
 FAP Nos: BHO-PRES(010)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
072	914.5010	Cont.				
		BRIDGE 317		576.00	0014	01
		BRIDGE 83		696.00	0014	01
		BRIDGE 91		50.00	0014	01
<b>Item 914.5010 Total:</b>				<b>5,024.00</b>		
073	914.5020	<b>FLAGPERSONS - OVERTIME</b>	<b>MHRS</b>			
		BRIDGE GROUP 16B				
		PROJECT WIDE		1,005.00	0014	01
<b>Item 914.5020 Total:</b>				<b>1,005.00</b>		
074	920.0055	<b>PLACED STONE RIPRAP R-3, R-4, R-5</b>	<b>SY</b>			
		<b>STANDARD 8.3.0</b>				
		BRIDGE GROUP 16B				
		BRIDGE 295		10.00	0014	01
<b>Item 920.0055 Total:</b>				<b>10.00</b>		
075	920.0140	<b>BEDDING FOR RIPRAP FS-3 STANDARD</b>	<b>SY</b>			
		<b>8.3.0</b>				
		BRIDGE GROUP 16B				
		BRIDGE 295		10.00	0014	01
<b>Item 920.0140 Total:</b>				<b>10.00</b>		
076	920.0200	<b>FILTER FABRIC FOR RIP-RAP</b>	<b>SY</b>			
		BRIDGE GROUP 16B				
		BRIDGE 295		10.00	0014	01
<b>Item 920.0200 Total:</b>				<b>10.00</b>		
077	922.0100	<b>TEMPORARY CONSTRUCTION SIGNS</b>	<b>SF</b>			
		<b>STANDARD 29.1.0 AND 27.1.1</b>				
		BRIDGE GROUP 16B				
		PROJECT WIDE		3,430.00	0014	01
<b>Item 922.0100 Total:</b>				<b>3,430.00</b>		

### Distribution of Quantities

Project Name - Bridge Group 16B - FOS, JOH, PVD, SCI  
 Estimate Name - BGI6B - Addendum 1  
 R.I. Contract No. - 2019-CB-068  
 FAP Nos: BHO-PRES(010)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
078	923.0105	<b>DRUM BARRICADE STANDARD 26.2.0</b>	<b>BDAY</b>			
		BRIDGE GROUP 16B				
		BRIDGE 146		1,192.00	0014	01
		BRIDGE 274		2,960.00	0014	01
		BRIDGE 295		525.00	0014	01
		BRIDGE 317		480.00	0014	01
		BRIDGE 605		625.00	0014	01
		BRIDGE 610		375.00	0014	01
		BRIDGE 61101		2,610.00	0014	01
		BRIDGE 61121		2,995.00	0014	01
		BRIDGE 83		580.00	0014	01
<b>Item 923.0105 Total:</b>				<b>12,342.00</b>		
079	923.0125	<b>PLASTIC PIPE TYPE III BARRICADE STANDARD 26.3.1</b>	<b>EACH</b>			
		BRIDGE GROUP 16B				
		PROJECT WIDE		21.00	0014	01
<b>Item 923.0125 Total:</b>				<b>21.00</b>		
080	923.0200	<b>FLUORESCENT TRAFFIC CONES STANDARD 26.1.0</b>	<b>EACH</b>			
		BRIDGE GROUP 16B				
		PROJECT WIDE		97.00	0014	01
<b>Item 923.0200 Total:</b>				<b>97.00</b>		
081	924.0113	<b>ADVANCE WARNING ARROW PANEL</b>	<b>PDAY</b>			
		BRIDGE GROUP 16B				
		PROJECT WIDE		219.00	0014	01
<b>Item 924.0113 Total:</b>				<b>219.00</b>		
082	925.0112	<b>PORTABLE CHANGEABLE MESSAGE SIGN</b>	<b>PDAY</b>			
		BRIDGE GROUP 16B				
		PROJECT WIDE		88.00	0014	01



**Distribution of Quantities**

Project Name - Bridge Group 16B - FOS, JOH, PVD, SCI  
 Estimate Name - BG16B - Addendum 1  
 R.I. Contract No. - 2019-CB-068  
 FAP Nos: BHO-PRES(010)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
082	925.0112	Cont.				
		Item 925.0112 Total:		88.00		
083	926.0140	REFLECTIVE DELINEATORS FOR TEMPORARY CONCRETE BARRIERS BRIDGE GROUP 16B PROJECT WIDE	EACH	27.00	0014	01
		Item 926.0140 Total:		27.00		
084	926.9901	TEMPORARY IMPACT ATTENUATOR BRIDGE GROUP 16B PROJECT WIDE	EACH	8.00	0014	01
		Item 926.9901 Total:		8.00		
085	926.9902	REMOVE AND RESET TEMPORARY IMPACT ATTENUATOR BRIDGE GROUP 16B PROJECT WIDE	EACH	6.00	0014	01
		Item 926.9902 Total:		6.00		
086	926.9903	RELOCATE PRECAST MEDIAN BARRIER FOR TEMPORARY TRAFFIC CONTROL BRIDGE GROUP 16B PROJECT WIDE	LF	685.00	0014	01
		Item 926.9903 Total:		685.00		
087	926.9904	UNANCHORED BARRIER FOR TEMPORARY TRAFFIC CONTROL BRIDGE GROUP 16B PROJECT WIDE	LF	875.00	0014	01
		Item 926.9904 Total:		875.00		
088	928.9901	TRUCK MOUNTED ATTENUATOR WITH TRUCK MOUNTED FLASHING ARROW	HRS			

**Distribution of Quantities**

Project Name - Bridge Group 16B - FOS, JOH, PVD, SCI

Estimate Name - BG16B - Addendum 1

R.I. Contract No. - 2019-CB-068

FAP Nos: BHO-PRES(010)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
088	928.9901 Cont.	BRIDGE GROUP 16B				
		PROJECT WIDE		664.00	0014	01
				<b>Item 928.9901 Total:</b>	<b>664.00</b>	
089	929.0110	<b>FIELD OFFICE</b>	<b>PMO</b>			
		BRIDGE GROUP 16B				
		PROJECT WIDE		16.00	0014	01
				<b>Item 929.0110 Total:</b>	<b>16.00</b>	
090	931.0110	<b>CLEANING AND SWEEPING PAVEMENT</b>	<b>HSY</b>			
		BRIDGE GROUP 16B				
		BRIDGE 146		5.00	0014	01
				<b>Item 931.0110 Total:</b>	<b>5.00</b>	
091	932.0200	<b>FULL-DEPTH SAWCUT OF BITUMINOUS PAVEMENT</b>	<b>LF</b>			
		BRIDGE GROUP 16B				
		BRIDGE 146		400.00	0014	01
		BRIDGE 232		30.00	0014	01
		BRIDGE 83		50.00	0014	01
				<b>Item 932.0200 Total:</b>	<b>480.00</b>	
092	936.0110	<b>MOBILIZATION</b>	<b>LS</b>			
		BRIDGE GROUP 16B				
		PROJECT WIDE		1.00	0014	01
				<b>Item 936.0110 Total:</b>	<b>1.00</b>	
093	937.0200	<b>MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION</b>	<b>LS</b>			
		BRIDGE GROUP 16B				
		PROJECT WIDE		1.00	0014	01
				<b>Item 937.0200 Total:</b>	<b>1.00</b>	

### Distribution of Quantities

Project Name - Bridge Group 16B - FOS, JOH, PVD, SCI  
 Estimate Name - BG16B - Addendum 1  
 R.I. Contract No. - 2019-CB-068  
 FAP Nos: BHO-PRES(010)

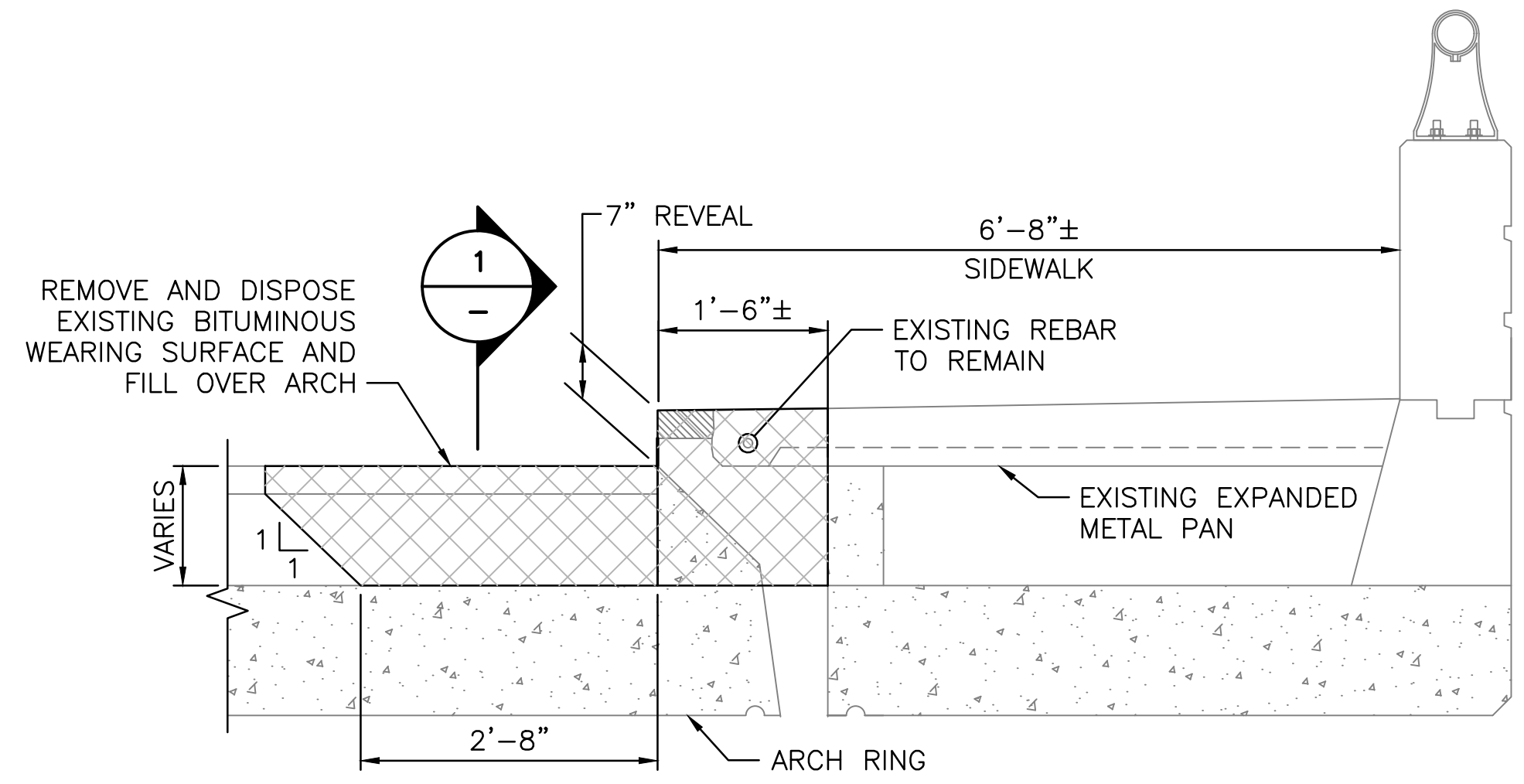
Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
094	L09.9901	<b>SELECTIVE CLEARING</b>	<b>LS</b>			
		BRIDGE GROUP 16B				
		PROJECT WIDE		1.00	0014	01
<b>Item L09.9901 Total:</b>				<b>1.00</b>		
095	T20.0706	<b>6 INCH WHITE WATERBORNE PAINT</b>	<b>LF</b>			
		<b>PAVEMENT MARKINGS</b>				
		BRIDGE GROUP 16B				
		BRIDGE GROUP 16B		1,540.00	0014	01
<b>Item T20.0706 Total:</b>				<b>1,540.00</b>		
096	T20.0712	<b>12 INCH WHITE WATERBORNE PAINT</b>	<b>LF</b>			
		<b>PAVEMENT MARKINGS</b>				
		BRIDGE GROUP 16B				
		BRIDGE GROUP 16B		90.00	0014	01
<b>Item T20.0712 Total:</b>				<b>90.00</b>		
097	T20.0906	<b>6 INCH YELLOW WATERBORNE PAINT</b>	<b>LF</b>			
		<b>PAVEMENT MARKINGS</b>				
		BRIDGE GROUP 16B				
		BRIDGE GROUP 16B		2,070.00	0014	01
<b>Item T20.0906 Total:</b>				<b>2,070.00</b>		
098	T20.2406	<b>6 INCH WHITE FINAL EPOXY RESIN</b>	<b>LF</b>			
		<b>PAVEMENT MARKINGS</b>				
		BRIDGE GROUP 16B				
		BRIDGE GROUP 16B		970.00	0014	01
<b>Item T20.2406 Total:</b>				<b>970.00</b>		
099	T20.2412	<b>12 INCH WHITE FINAL EPOXY RESIN</b>	<b>LF</b>			
		<b>PAVEMENT MARKINGS</b>				
		BRIDGE GROUP 16B				
		BRIDGE GROUP 16B		230.00	0014	01

### Distribution of Quantities

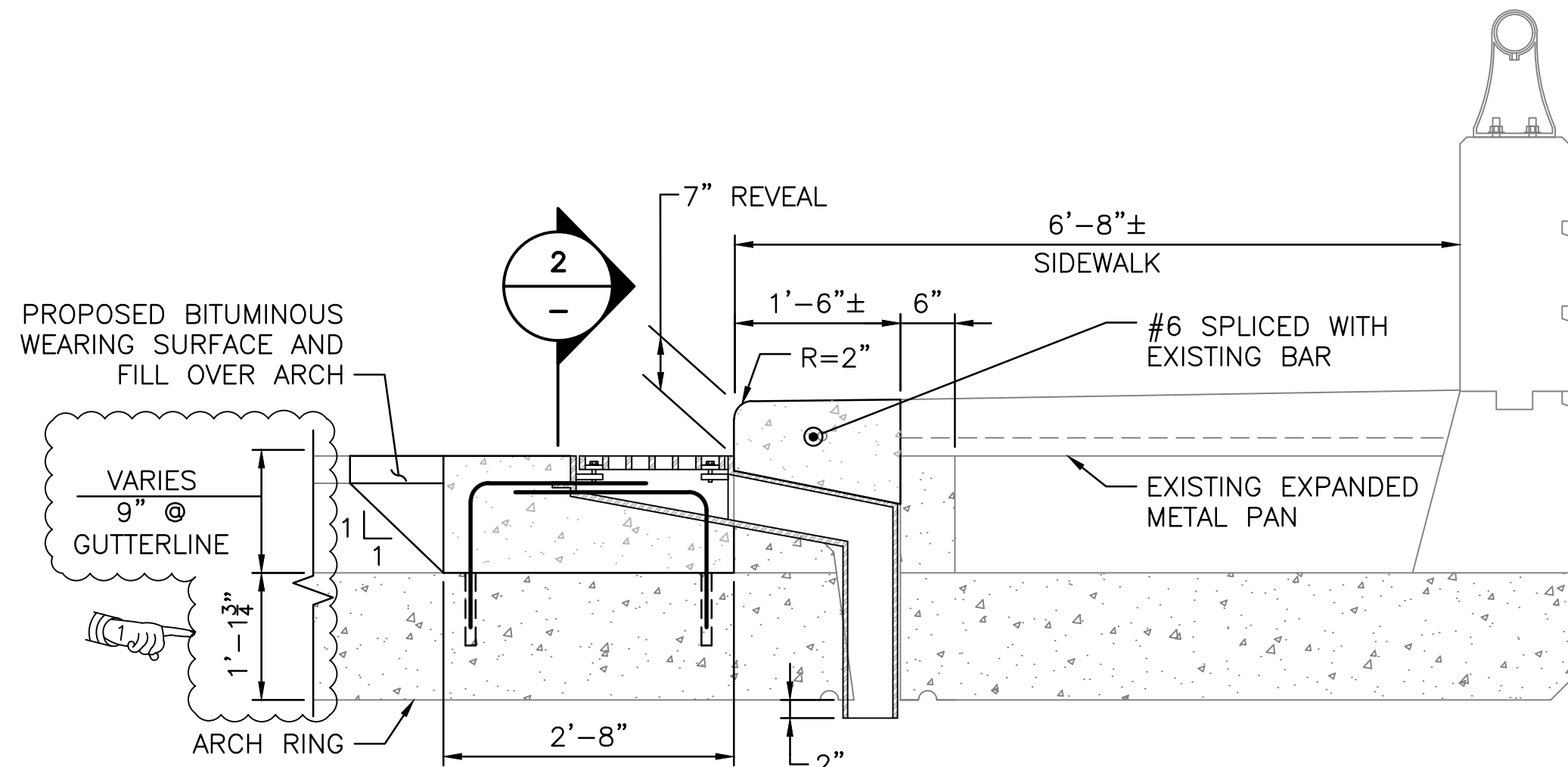
Project Name - Bridge Group 16B - FOS, JOH, PVD, SCI  
 Estimate Name - BG16B - Addendum 1  
 R.I. Contract No. - 2019-CB-068  
 FAP Nos: BHO-PRES(010)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
099	T20.2412 Cont.	Item T20.2412 Total:		230.00		
100	T20.2804	4 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS  BRIDGE GROUP 16B BRIDGE GROUP 16B	LF	950.00	0014	01
Item T20.2804 Total:				950.00		
101	T20.2812	12 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS  BRIDGE GROUP 16B BRIDGE GROUP 16B	LF	280.00	0014	01
Item T20.2812 Total:				280.00		
102	T20.4506	REMOVE PAVEMENT MARKING LINE - LESS THAN OR EQUAL TO 6 INCHES WIDE  BRIDGE GROUP 16B PROJECT WIDE	LF	4,900.00	0014	01
Item T20.4506 Total:				4,900.00		
103	201.0401	REMOVE AND DISPOSE GRANITE CURB  BRIDGE GROUP 16B BRIDGE 232	LF	20.00	0014	01
Item 201.0401 Total:				20.00		
104	824.9904	TEMPORARY TRAFFIC PLATE BRIDGE 274  BRIDGE GROUP 16B BRIDGE 274	LS	1.00	0014	01
Item 824.9904 Total:				1.00		

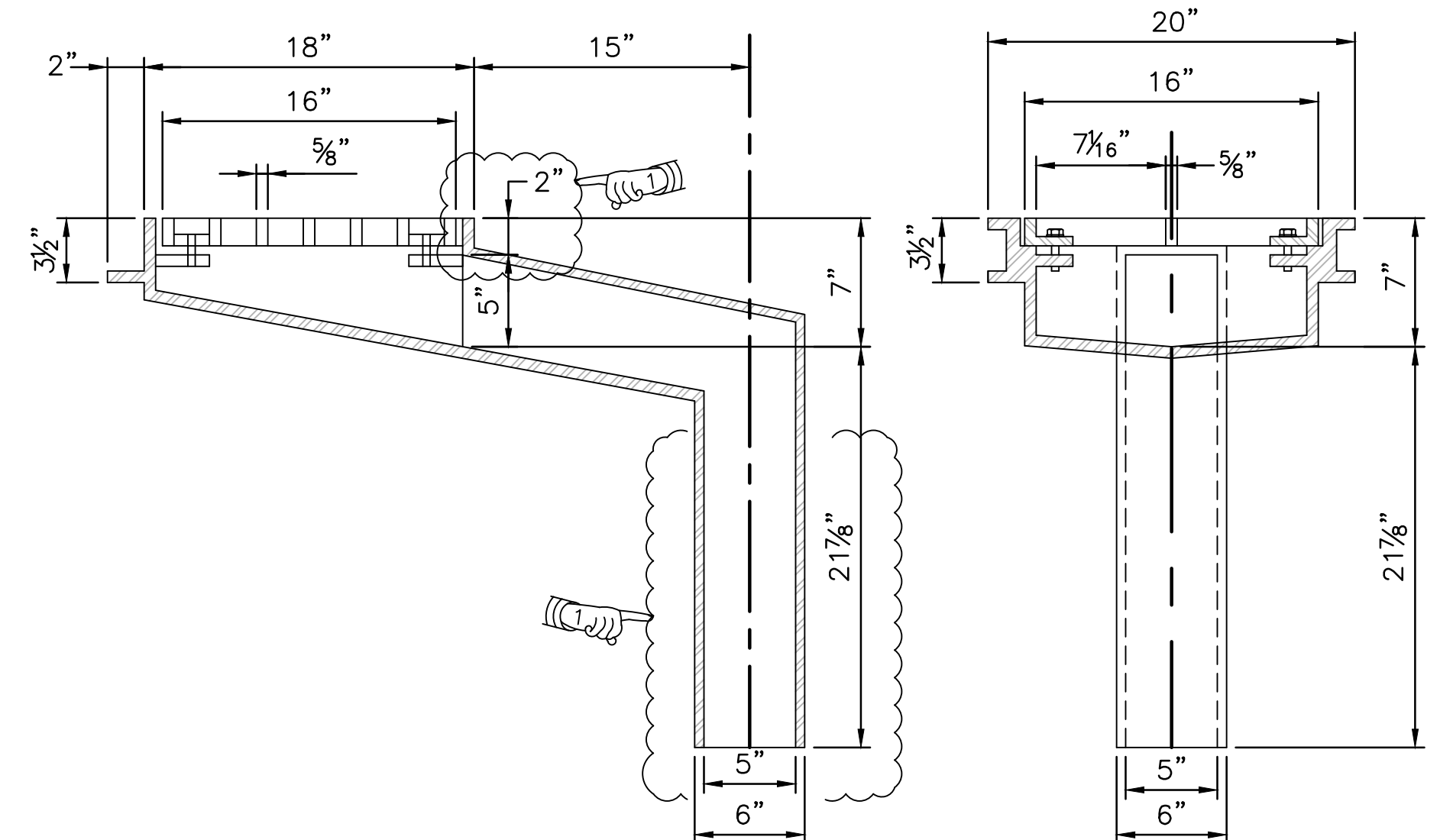




**GUTTER DRAIN SECTION**  
 SCALE: 3/4"=1'-0"

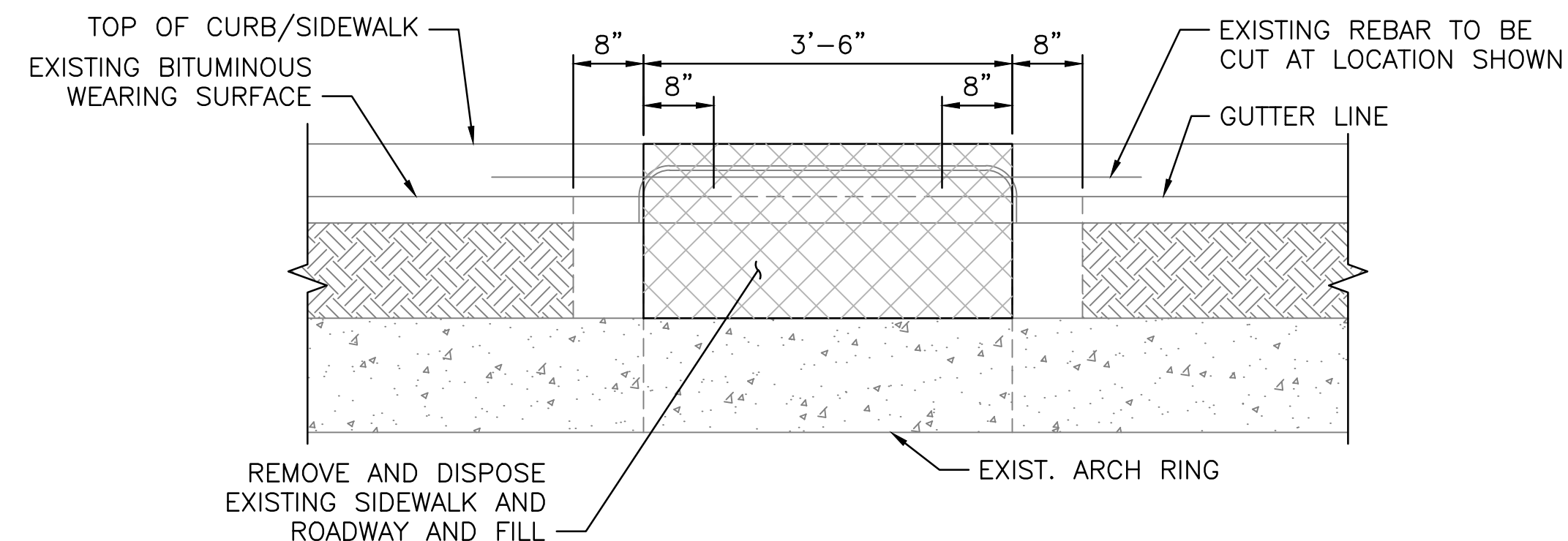


**GUTTER DRAIN SECTION**  
 SCALE: 3/4"=1'-0"

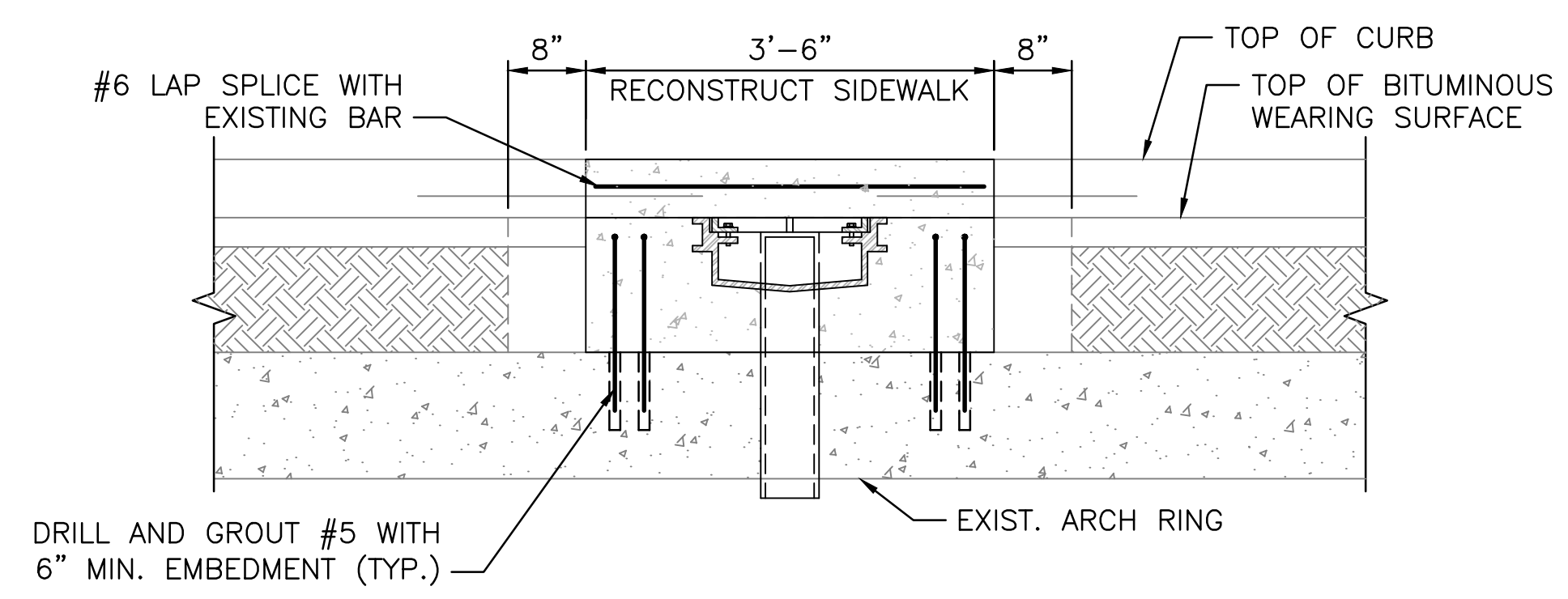


**MODIFIED R-393 SCUPPER**  
 SCALE: 1 1/2"=1'-0"

**SECTION 3**  
 SCALE: 1 1/2"=1'-0"



**GUTTER DRAIN ELEVATION VIEW 1**  
 SCALE: 3/4"=1'-0"



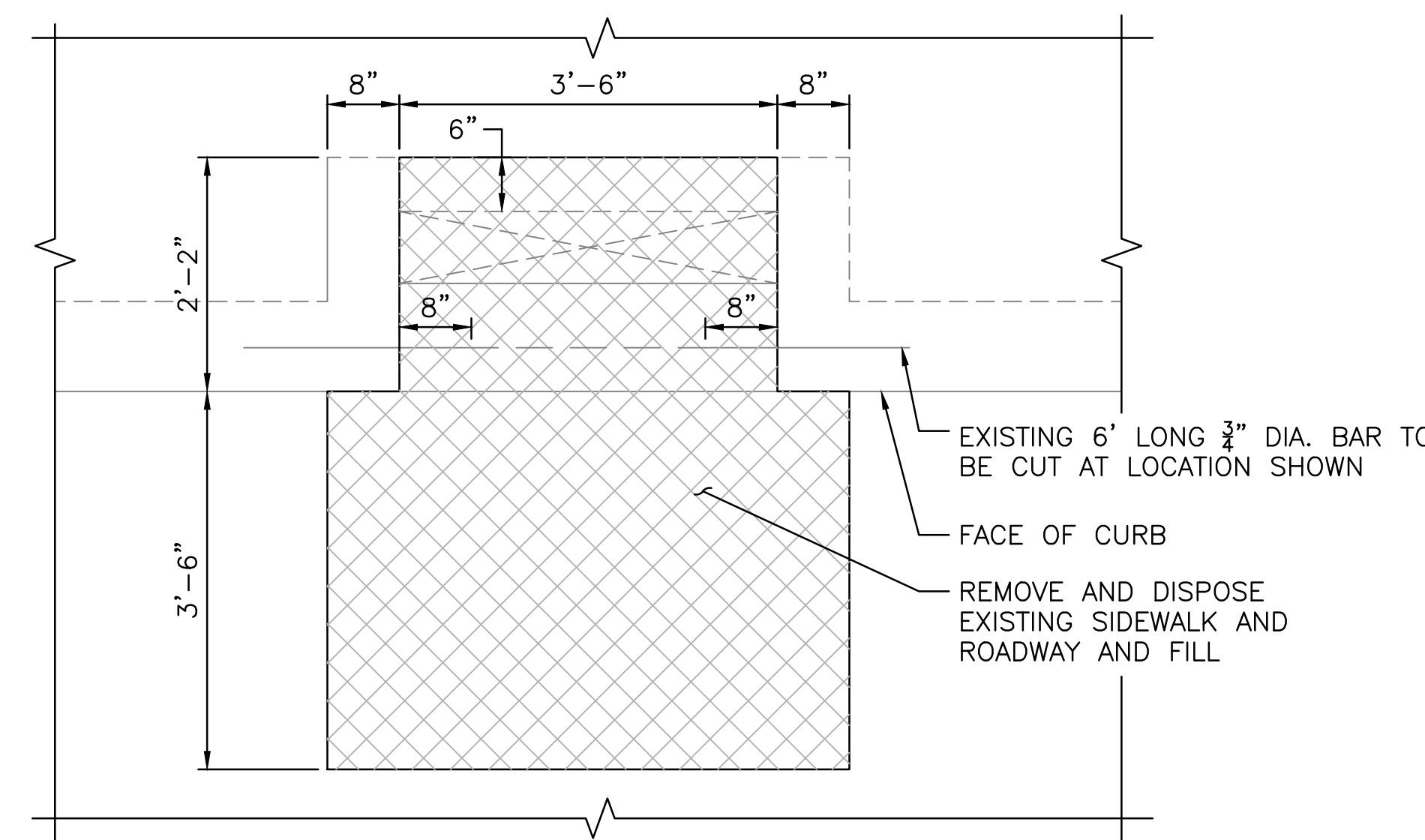
**GUTTER DRAIN ELEVATION VIEW 2**  
 SCALE: 3/4"=1'-0"

**LEGEND:**

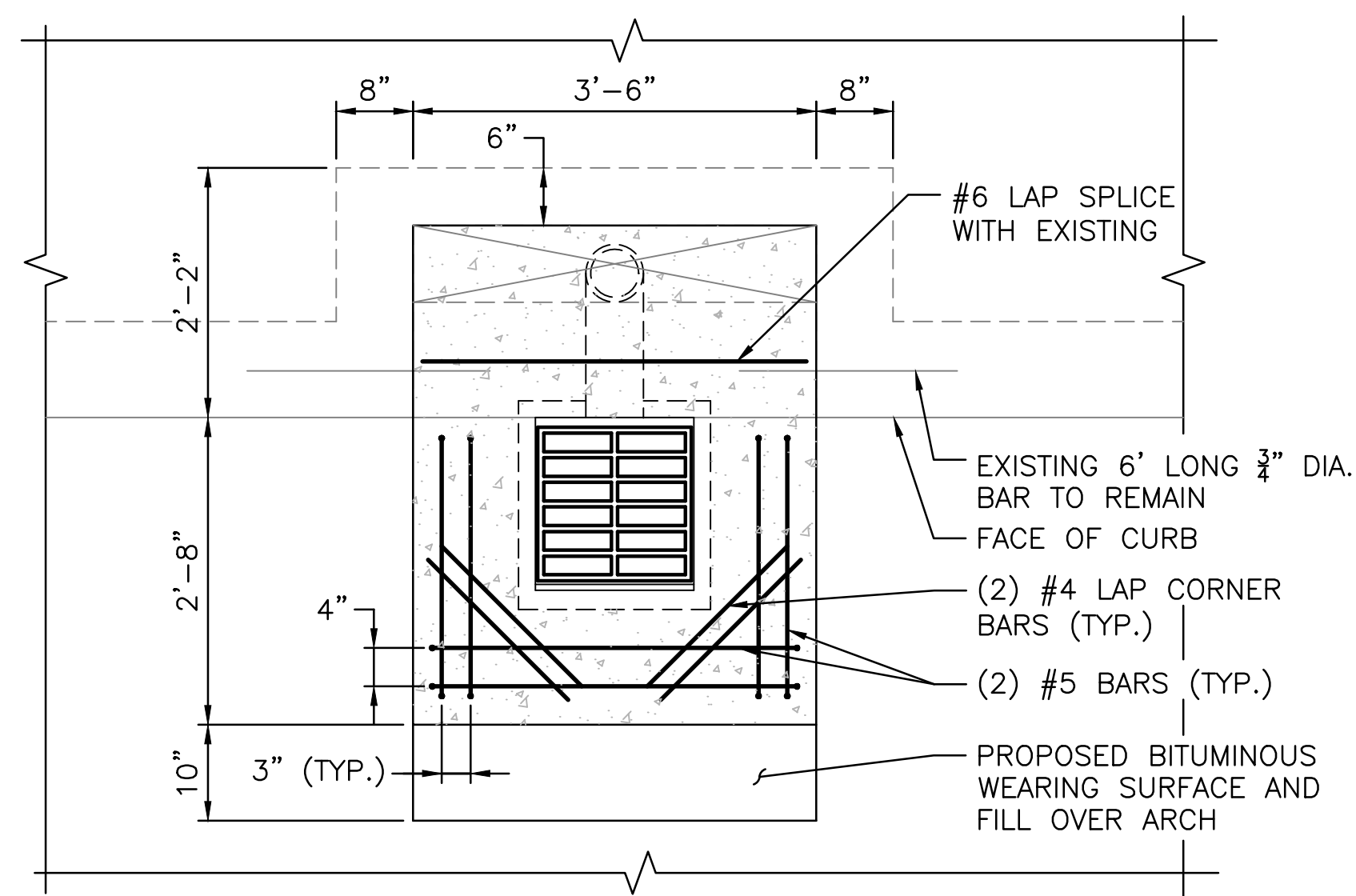
DEMOLISH CONCRETE AREA AT BACKWALL, SEE NOTE 5

**NOTES:**

- ALL DIMENSIONS AND SIZES ARE TAKEN FROM LIMITED EXISTING PLANS AND FIELD INVESTIGATIONS AND AS SUCH ARE NOT GUARANTEED. CONTRACTOR SHALL FIELD VERIFY ALL REQUIRED DIMENSIONS PRIOR TO START OF WORK.
- CONTRACTOR SHALL EXERCISE CARE TO AVOID THE EXISTING GAS LINE AND OTHER UTILITIES DURING SCUPPER REMOVAL OPERATIONS.
- COST OF REMOVAL OF EXISTING SECTIONS OF CONCRETE ARCH AS INDICATED FOR SCUPPER REMOVAL SHALL BE INCLUDED AND PAID UNDER ITEM 803.0300 "PARTIAL REMOVAL AND DISPOSAL OF EXISTING CONCRETE MASONRY."
- RECONSTRUCTING OF SCUPPER AREAS AS INDICATED SHALL BE INCLUDED IN THE FOLLOWING ITEMS AS APPROPRIATE: ITEM 808.1200 "CONCRETE SUPERSTRUCTURE CLASS HP 3/4," ITEM 810.0210 "GALVANIZED BAR REINFORCEMENT GRADE 60," ITEM 819.0800 "DRILL AND GROUT REINFORCING DOWELS."
- CONCRETE REMOVAL SHALL EXTEND TO SOUND CONCRETE. IF UNSOUND CONCRETE IS FOUND AT THE LIMITS OF REMOVAL, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE ENGINEER.
- EXCAVATION OF FILL OVER ARCH SHALL BE INCLUDED AND PAID UNDER ITEM 203.0400 "STRUCTURAL EXCAVATION UNCLASSIFIED."
- REPLACEMENT OF FILL OVER ARCH IN AREAS OF SCUPPER MODIFICATION SHALL BE INCLUDED AND PAID FOR ITEM 202.0800 "GRAVEL BORROW."



**GUTTER DRAIN VIEW PLAN**  
 SCALE: 3/4"=1'-0"  
**DEMOLITION**



**GUTTER DRAIN VIEW PLAN**  
 SCALE: 3/4"=1'-0"  
**PROPOSED**

**ADDENDUM No. 1**

REVISIONS			NO.	DATE	BY
NO.	DATE	BY			
1	10/01/19	LBG			

**RHODE ISLAND**  
**DEPARTMENT OF TRANSPORTATION**

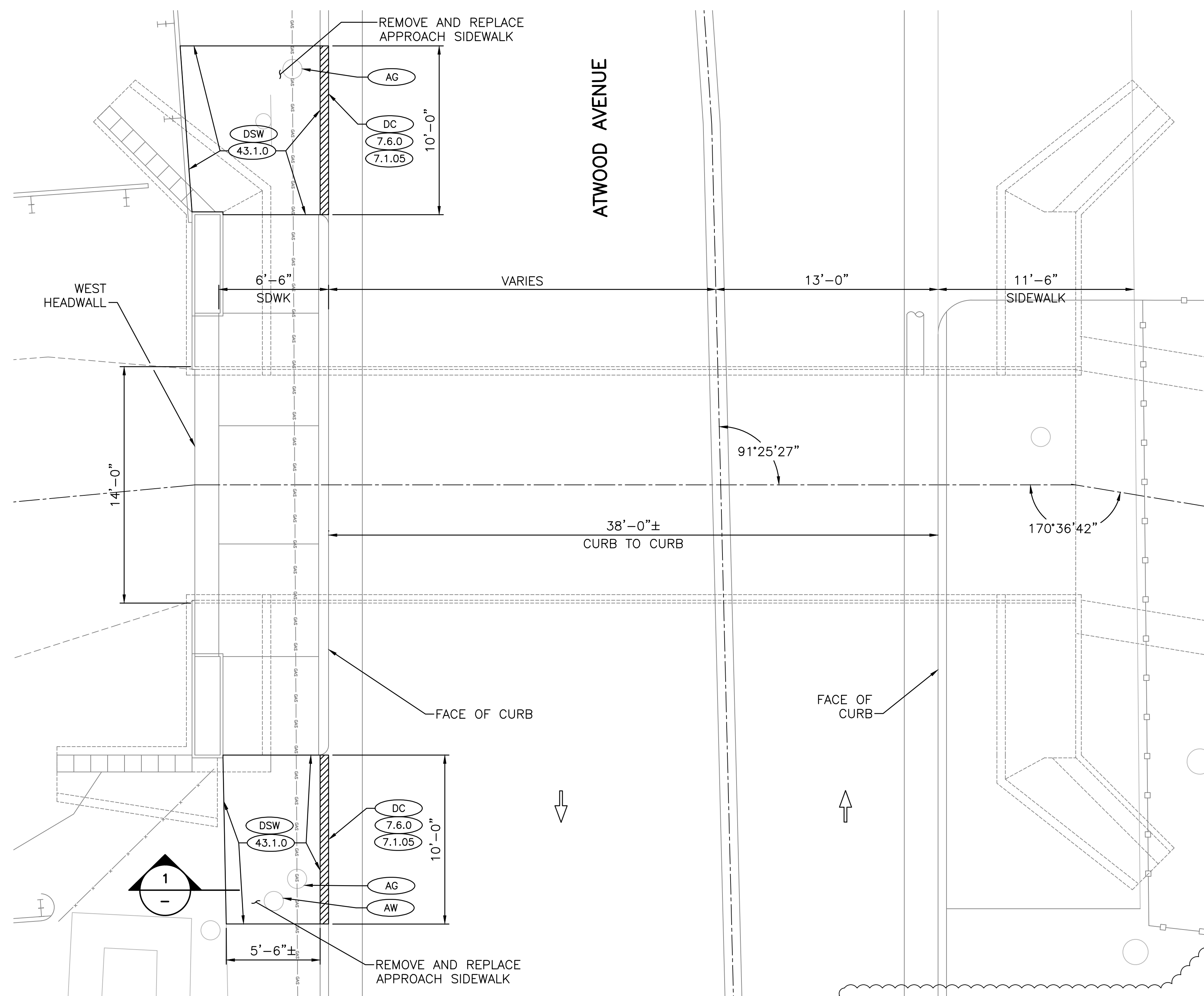
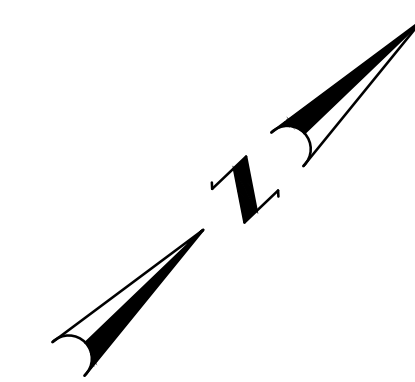
**BRIDGE GROUP 16B**  
 PROVIDENCE COUNTY, RHODE ISLAND

BRIDGE NO. 146 ROUTE 44 OVER  
 WOONASQUATUCKET RIVER; JOHNSTON, RI  
**BRIDGE SCUPPER MODIFICATION**

CHECKED BY JPM DATE 09/11/19 SCALE AS NOTED



**Louis Berger**  
 166 VALLEY STREET  
 PROVIDENCE, RI 02908  
 TEL 401.521.5980  
 WWW.LOUIBERGER.COM



**SIDEWALK REPAIR PLAN**  
SCALE: 1/4"=1'-0"

**NOTES:**

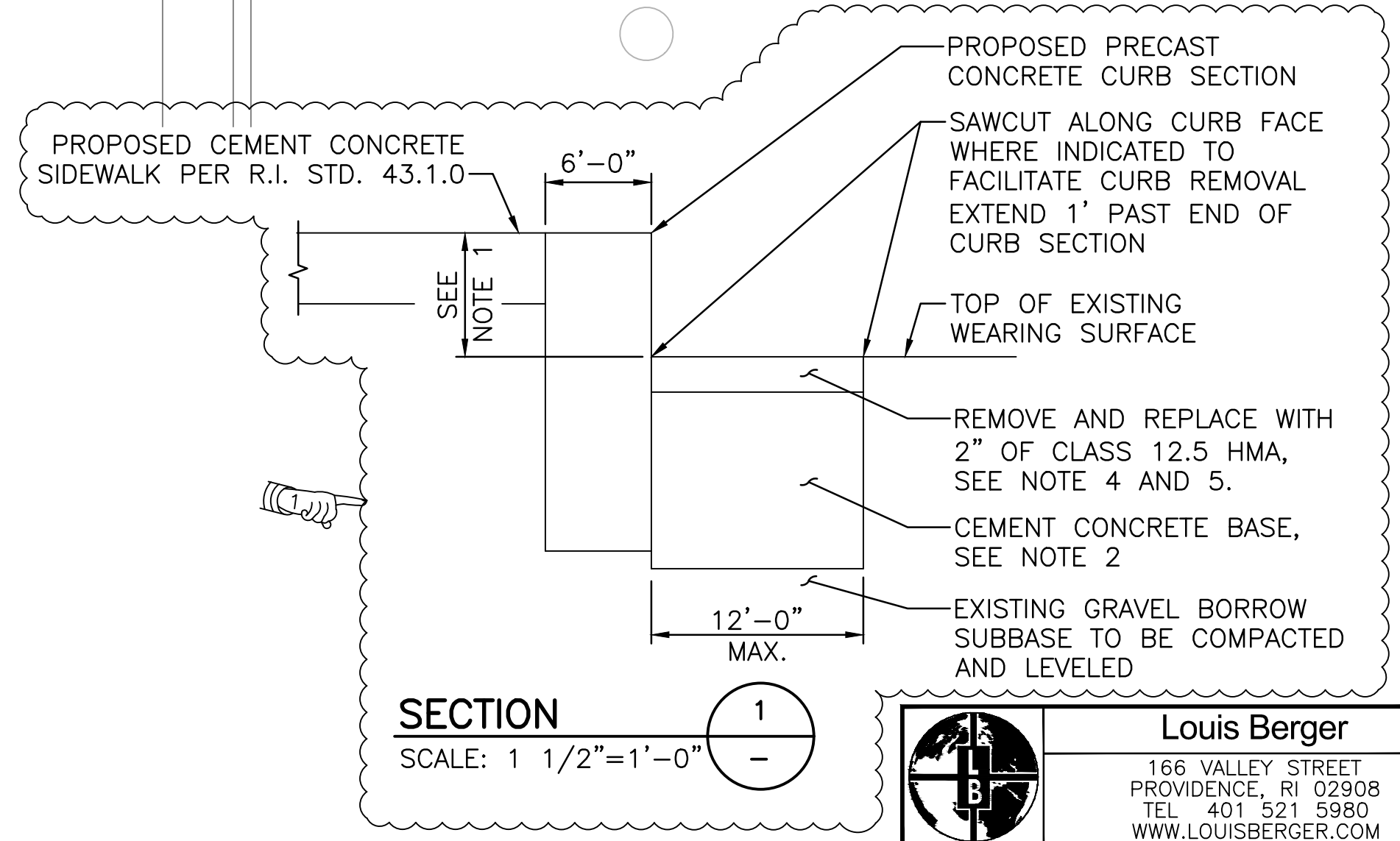
1. REMOVAL OF EXISTING SIDEWALK SHALL BE PAID FOR UNDER ITEM 201.0403 "REMOVE AND DISPOSE SIDEWALKS."
2. REMOVE CEMENT CONCRETE OR BITUMINOUS CONCRETE PATCH, RETAIN GRAVEL BORROW BASE GRADE AND COMPACT.

**CURB REPAIR NOTES:**

1. CURB REVEAL SHALL BE 6" AND SHALL BE TAPERED TO MEET EXISTING CURB REVEAL AT THE SIDEWALK REPAIR LIMITS.
2. CONCRETE BASE SHALL CONFORM TO THE REQUIREMENTS OF AND BE PAID FOR UNDER ITEM 501.0103 "PORTLAND CEMENT CONCRETE BASE."
3. COST OF SAWCUTTING TO FACILITATE CURB REMOVAL SHALL BE INCLUDED UNDER ITEM 932.0200 "FULL-DEPTH SAWCUT OF BITUMINOUS PAVEMENT."
4. COST OF REMOVAL OF EXISTING WEARING SURFACE AND EXCAVATION OF EXISTING SUBBASE SHALL BE INCLUDED UNDER ITEM 201.0403 "REMOVE AND DISPOSE SIDEWALKS."
5. REPLACEMENT OF EXISTING WEARING SURFACE SHALL BE PAID UNDER ITEM 401.2003 "CLASS 12.5 HMA FOR PATCHING."
6. REMOVAL OF EXISTING CURB AND PREPARATION FOR NEW CURB INSTALLATION SHALL BE PAID FOR UNDER ITEM 201.0402 "REMOVE AND DISPOSE CONCRETE CURB".
7. INSTALLATION OF CONCRETE CURBS SHALL BE PAID UNDER ITEM 906.0240 "CEMENT CONCRETE CURB TYPES 10"x10" STRAIGHT". FOR CURB REPLACEMENT DETAIL, SEE SHEET 12

**LEGEND:**

(RGC) REMOVE AND RESET GRANITE CURB



**SECTION 1**  
SCALE: 1 1/2"=1'-0"



**Louis Berger**  
166 VALLEY STREET  
PROVIDENCE, RI 02908  
TEL 401 521 5980  
WWW.LOUISBERGER.COM

**ADDENDUM No. 1**

REVISIONS		
NO.	DATE	BY
1	10/01/19	LBG

**RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE GROUP 16B**  
PROVIDENCE COUNTY, RHODE ISLAND

BRIDGE NO. 232 ATWOOD AVENUE  
OVER SIMMONS BROOK; JOHNSTON, RI

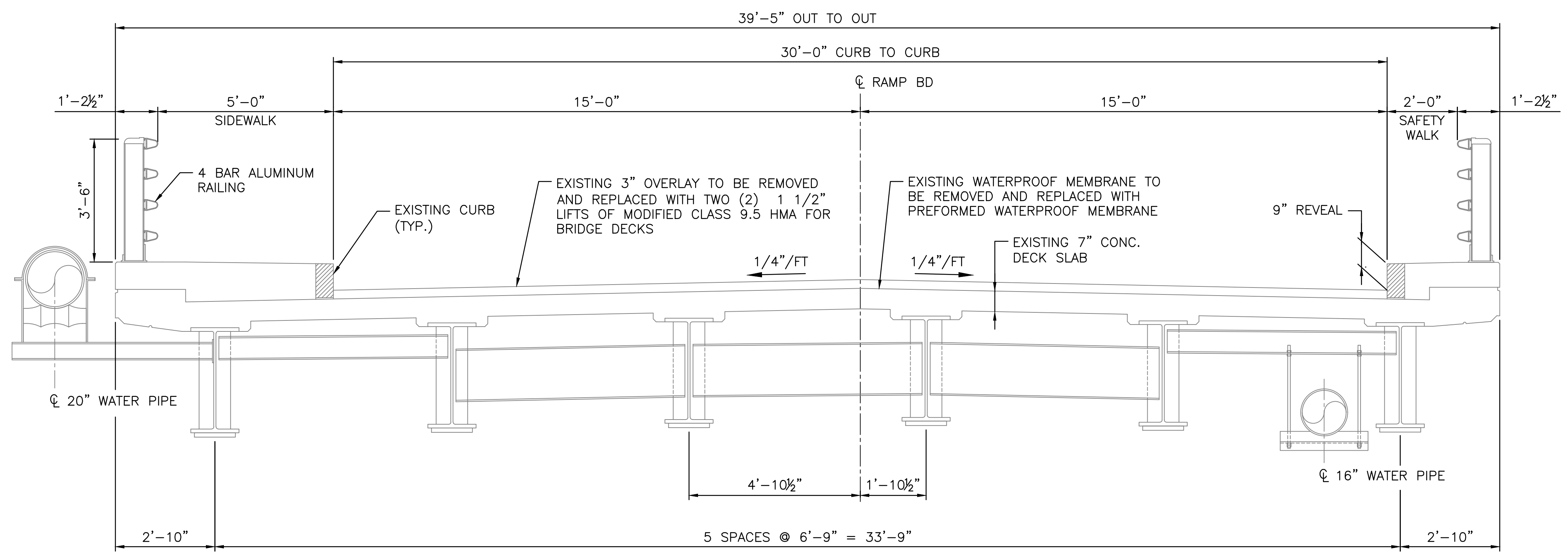
**SIDEWALK REPAIR PLAN**

CHECKED BY JPM DATE 09/11/19 SCALE AS NOTED



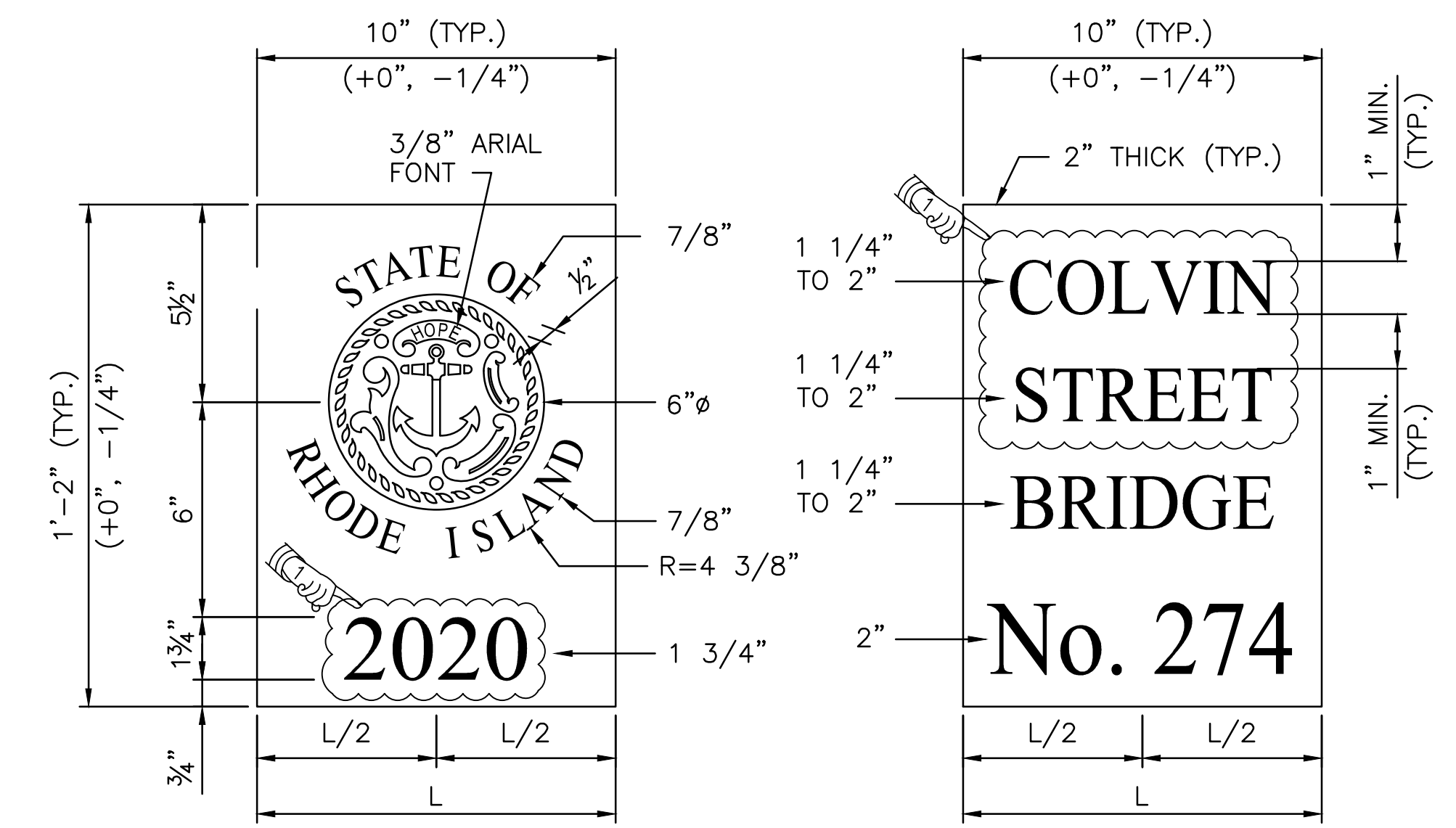






**TYPICAL BRIDGE SECTION**  
 SCALE: 1/2"=1'-0"  
 (LOOKING NORTH)

- NOTES:**
- REMOVAL OF EXISTING WEARING SURFACE AND WATERPROOF MEMBRANE FROM THE EXISTING BRIDGE DECK SHALL BE INCLUDED UNDER ITEM 401.9902 "REMOVE AND REPLACE OVERLAY AND WATERPROOFING BRIDGE 274."
  - PROPOSED WATERPROOFING MEMBRANE SHALL BE A HEAT APPLIED MEMBRANE MEETING THE REQUIREMENTS OF SECTION 813 OF THE RHODE ISLAND STANDARD SPECIFICATION AND SHALL BE APPLIED FOLLOWING THE REQUIREMENTS FOR THE SPECIFICATION AND THE MANUFACTURERS RECOMMENDATIONS. COSTS OF THE NEW MEMBRANE, INCLUDING ANY MATERIALS AND LABOR, SHALL BE INCLUDED UNDER ITEM 401.9902 "REMOVE AND REPLACE OVERLAY AND WATERPROOFING BRIDGE 274."
  - PROPOSED WEARING SURFACE SHALL CONSIST OF TWO (2) 1 1/2" LIFTS OF MODIFIED CLASS 9.5 HMA FOR BRIDGE DECKS. COSTS OF THE PROPOSED WEARING SURFACE SHALL BE INCLUDED UNDER ITEM 401.9902 "REMOVE AND REPLACE OVERLAY AND WATERPROOFING BRIDGE 274."
  - NEW GRANITE IDENTIFICATION TABLETS SHALL BE FABRICATED TO FIT THE EXISTING SEATS. CONTRACTOR SHALL FIELD VERIFY AVAILABLE DIMENSIONS AND SUBMIT SHOP DRAWINGS WITH ALL FIELD DIMENSIONS AND PROPOSED TABLETS. COSTS OF SHOP DRAWINGS, FIELD MEASUREMENTS, MATERIALS, AND LABOR SHALL BE INCLUDED UNDER ITEM 833.0400 "GRANITE IDENTIFICATION TABLETS."



STATE SEAL TABLET                      BRIDGE NAME TABLET

NOTE:  
 ALL FONT STYLES ARE TO BE TIMES NEW ROMAN,  
 UNLESS NOTED OTHERWISE.

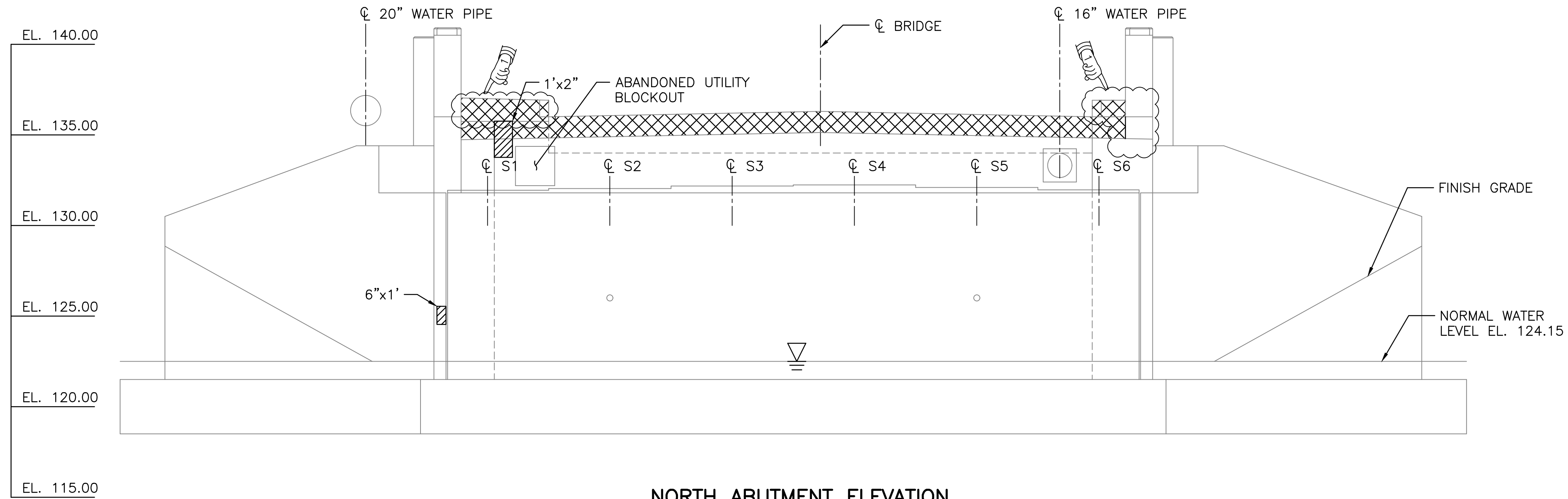
**GRANITE IDENTIFICATION TABLETS**  
 (NAMEPLATES)

SCALE: 3"=1'-0"

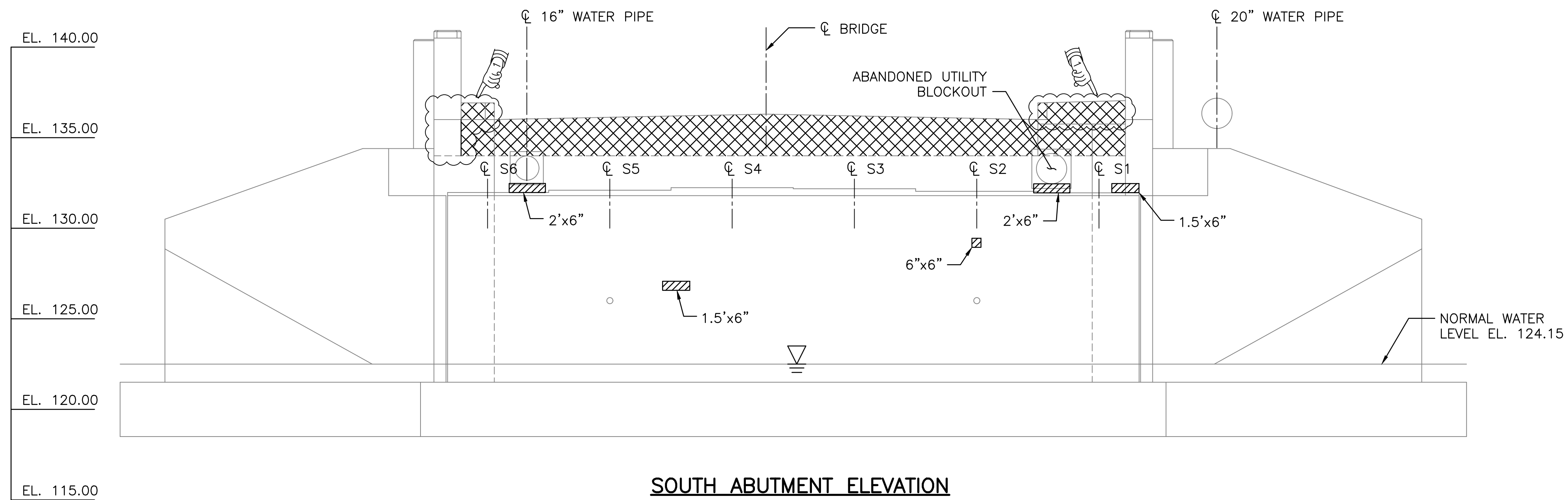
ADDENDUM No. 1

REVISIONS			NO.	DATE	BY	RHODE ISLAND	
NO.	DATE	BY				DEPARTMENT OF TRANSPORTATION	
1	10/01/19	LBG				BRIDGE GROUP 16B	
						PROVIDENCE COUNTY, RHODE ISLAND	
						BRIDGE NO. 274 COLVIN STREET OVER PAWTUXET RIVER; SCITUATE, RI	
						<b>TYPICAL BRIDGE SECTION</b>	
						CHECKED BY	JPM    DATE 09/11/19    SCALE AS NOTED

**Louis Berger**  
 166 VALLEY STREET  
 PROVIDENCE, RI 02908  
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 WWW.LOUIBERGER.COM



**NORTH ABUTMENT ELEVATION**  
SCALE: 1/4"=1'-0"



**SOUTH ABUTMENT ELEVATION**  
SCALE: 1/4"=1'-0"

**LEGEND:**

- SPALLED OR SPALLED AND DELAMINATED CONCRETE AREA WITH OR WITHOUT EXPOSED REBAR, SEE NOTE 3
- DEMOLITION AREA

**NOTES:**

1. ALL DIMENSIONS ARE APPROXIMATE AND TAKEN FROM LIMITED EXISTING PLANS, FIELD MEASUREMENTS AND INSPECTION REPORTS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO THE START OF WORK.
2. ALL EXPOSED SURFACES OF ABUTMENT STEMS, BACKWALLS AND BEAM SEATS SHALL BE WASHED AND CLEANED PER THE REQUIREMENTS OF ITEM NO. 820.9901 "HIGH PRESSURE WATER CLEANING - BRIDGE NO. 274."
3. SEE SHEET 56 FOR CONCRETE REPAIR DETAILS.
4. ALL FACES OF ABUTMENT STEMS, BACKWALLS AND BEAM SEATS SHALL RECEIVE CONCRETE SEALER PER REQUIREMENTS OF ITEM 820.9906 "CONCRETE SURFACE TREATMENT (PROTECTIVE COATING)."
5. SPALLED AND DELAMINATED AREAS THAT OVERLAP REQUIRED DEMOLITION AREA FOR DECK OR BACKWALL MODIFICATION SHALL ONLY BE REPAIR BELOW OUTLINE.

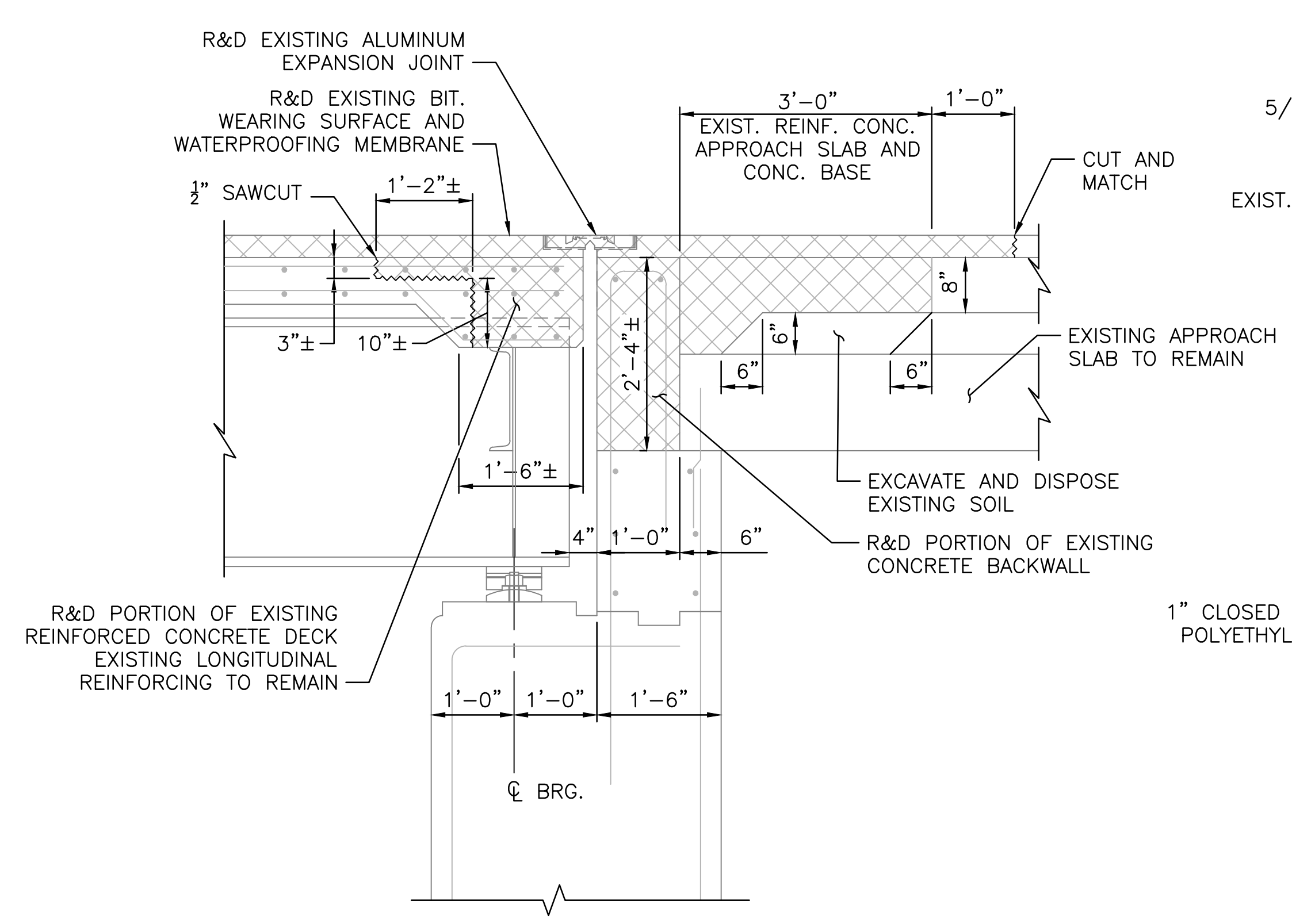
ADDENDUM No. 1

REVISIONS			NO.	DATE	BY	DESCRIPTION
1	10/01/19	LBG				

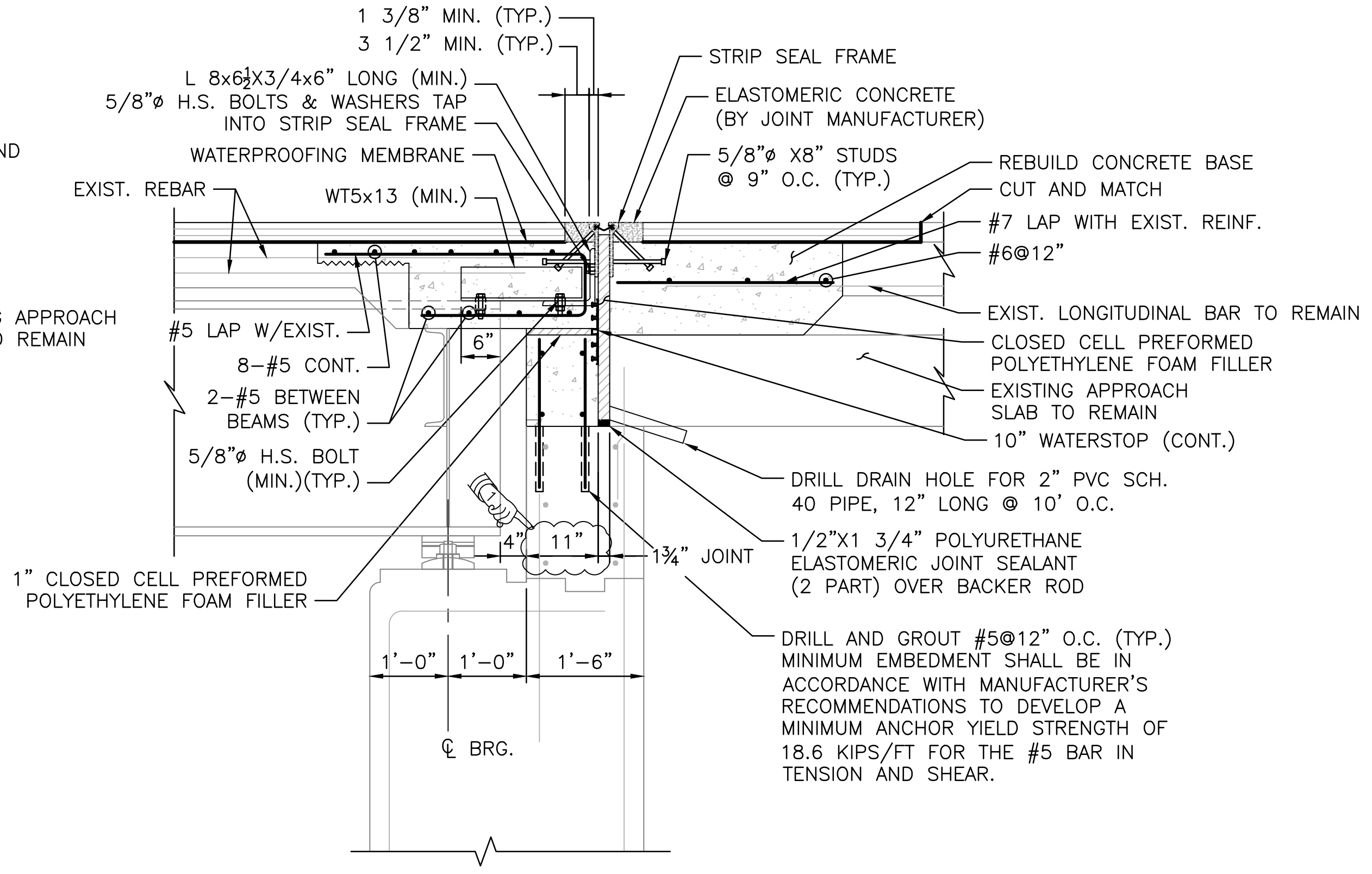
RHODE ISLAND DEPARTMENT OF TRANSPORTATION						
BRIDGE GROUP 16B						
PROVIDENCE COUNTY, RHODE ISLAND						
BRIDGE NO. 274 COLVIN STREET OVER PAWTUXET RIVER; SCITUATE, RI						
ABUTMENT ELEVATIONS						
CHECKED BY <u>JPM</u> DATE <u>09/11/19</u> SCALE <u>AS NOTED</u>						



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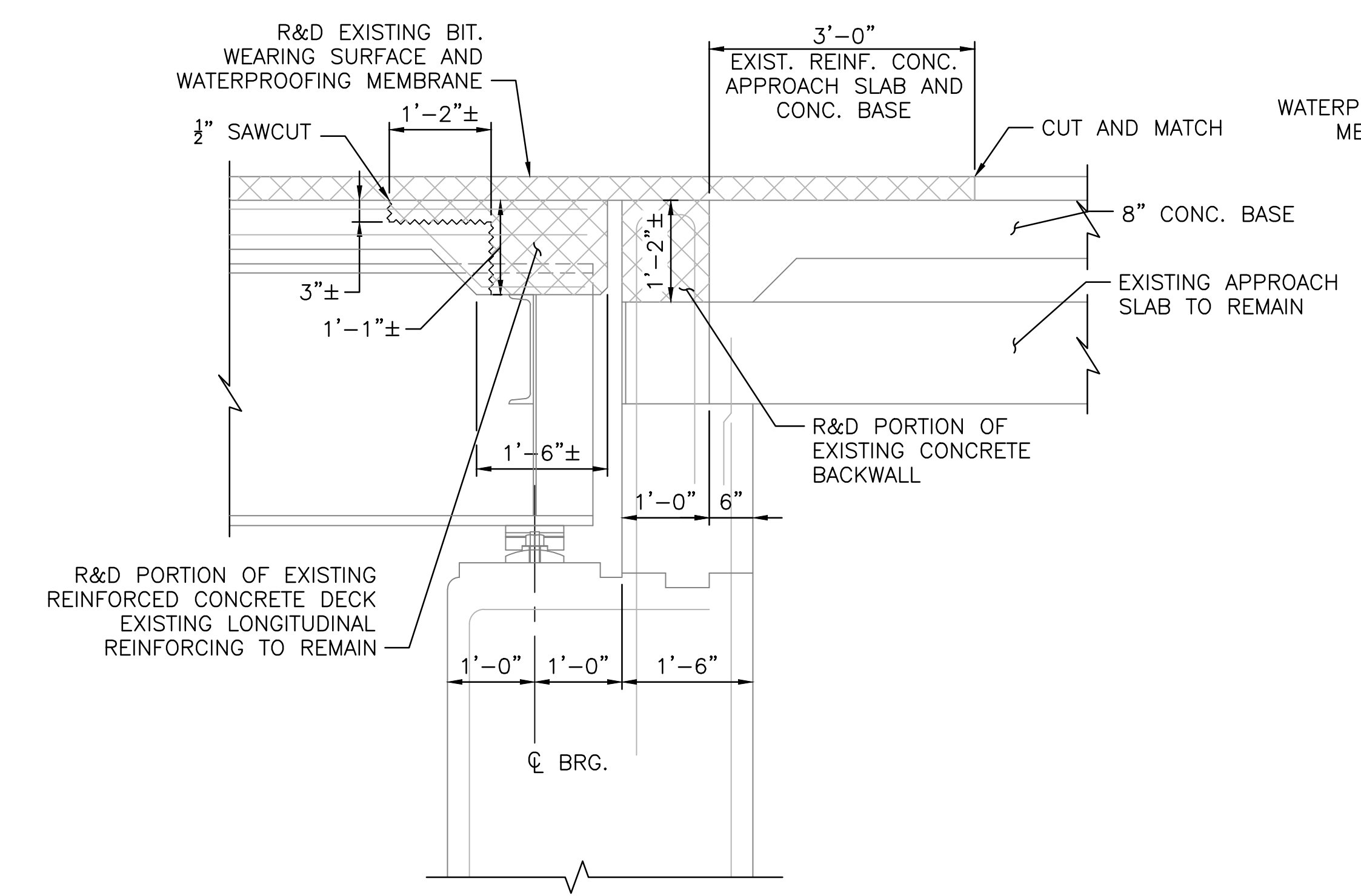
**EXISTING SOUTH ABUTMENT SECTION (EXP.)**  
 SCALE: 3/4"=1'-0"



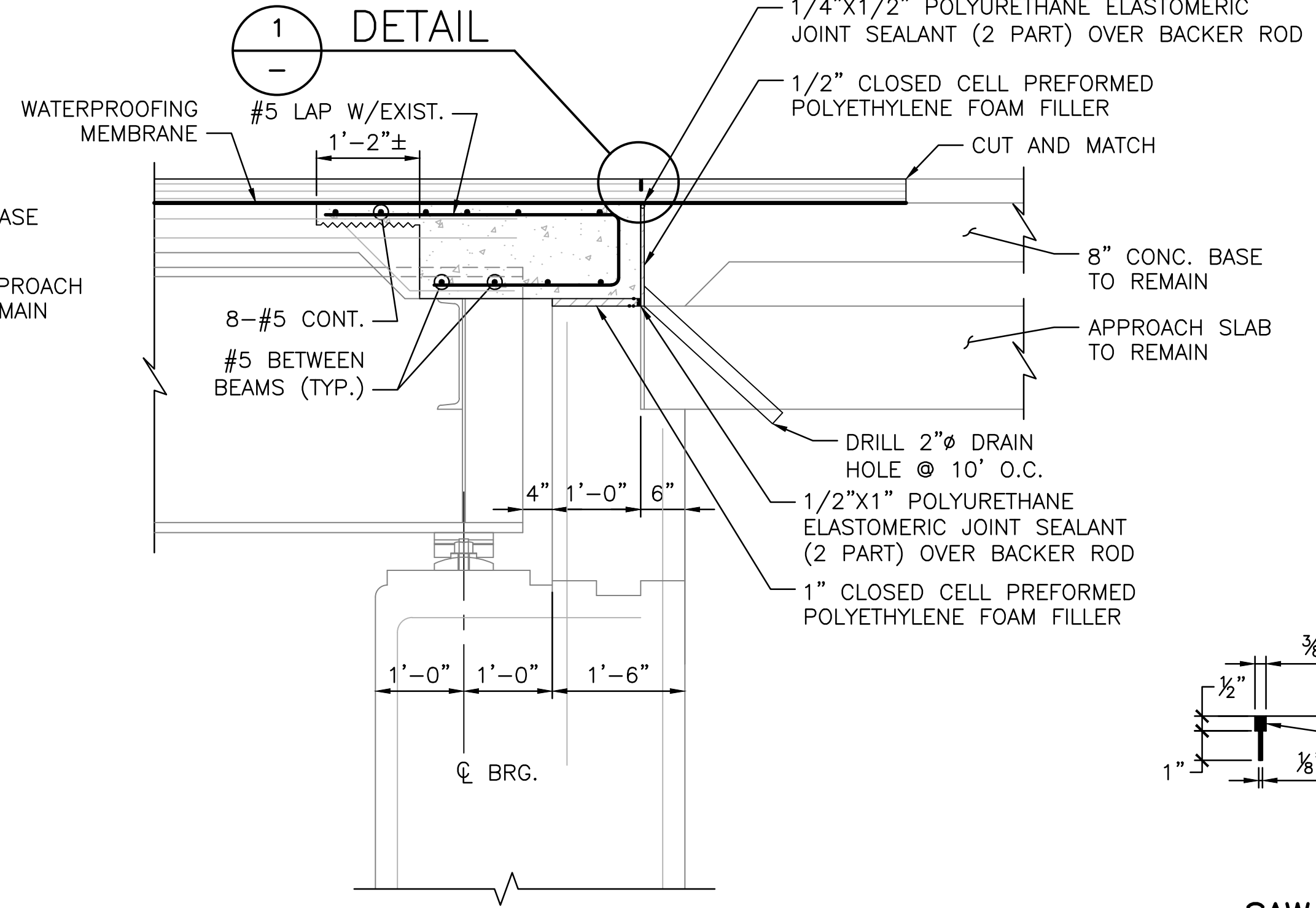
**PROPOSED SOUTH ABUTMENT SECTION (EXP.)**  
 SCALE: 3/4"=1'-0"

**NOTES:**

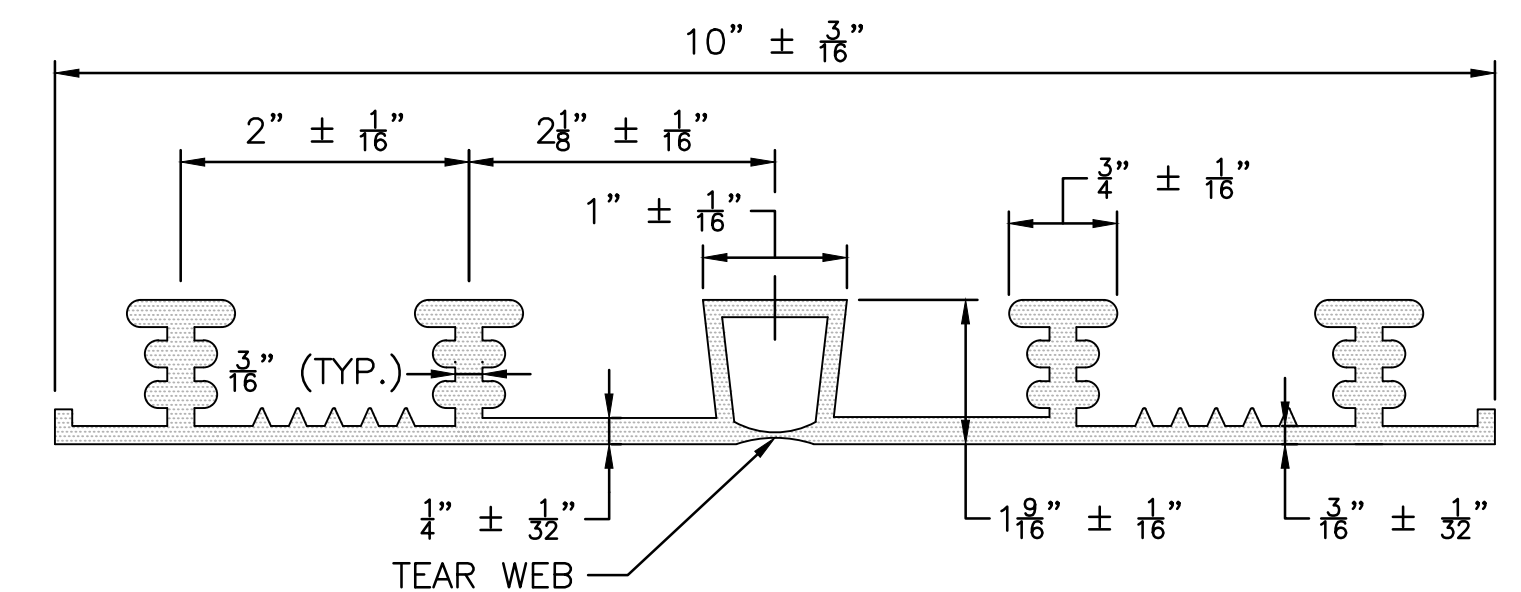
1. INSTALL CONTINUOUS NEOPRENE STRIP SEAL IN FIELD. FIELD SPlicing OF STRIP SEAL IS NOT PERMITTED.
2. THE ENTIRE EXPANSION STRIP SEAL FRAME SHALL BE ASSEMBLED, ERECTED AND SET TO GRADE PRIOR TO PLACING THE ELASTOMERIC CONCRETE. THE EXPANSION DAM SHALL BE CONSTRUCTED TO FOLLOW THE ROADWAY GRADE AND CROSS SLOPE.
3. STRIP SEAL FRAME SHALL BE AASHTO DESIGNATION M 270 GRADE 36. THE STUDS SHALL BE ASTM DESIGNATION A 108, AND SHALL BE WELDED BY THE PRESSURE PROCESS.
4. A COAT OF ASPHALTIC CEMENT PAINT SHALL BE APPLIED TO STEEL SURFACES SLIDING ON THE CONCRETE.
5. ALL MATERIALS SHALL BE HOT DIPPED GALVANIZED OR METALIZED.
6. THESE DRAWINGS ARE TO BE USED AS A GUIDE IN THE PREPARATION OF THE SHOP DRAWINGS.
7. THE NEOPRENE STRIP SEAL SHALL BE BONDED TO THE SEAL FRAME WITH AN APPROVED ADHESIVE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
8. THE TRANSVERSE BUTT WELDS FOR SPlicing OF THE STEEL FRAME SHALL BE PARTIAL PENETRATION DOUBLE V-GROOVE WELDS ON PREPARED BEVELED EDGES EXTENDING ALL AROUND THE JOINT AS FAR AS PRACTICAL TO ACHIEVE A WATERTIGHT SEAL. THE INSIDE OF THE SEAL CAVITY SHALL NOT BE WELDED. WHERE A TRANSVERSE JOINT OCCURS, TWO ADDITIONAL STUDS MUST BE ADDED ON EACH SIDE OF THE JOINT.
9. THE MOVEMENT CLASSIFICATION OF THE JOINT SHALL NOT BE LESS THAN THE CLASSIFICATION SPECIFIED ON THE DRAWINGS.
10. PLACE CURBS AND SIDEWALKS WITH STEEL SLIDING PLATES, WITH INSERTS AND BOLTS IN PLACE TO INSURE ALIGNMENT OF INSERTS WITH HOLES IN THE STEEL SLIDING PLATES. REMOVE PLATES TO INSTALL SEAL. APPLY BOND BREAKER TO SLIDING PLATES PRIOR TO INSTALLATION.
11. THE SEALS FURNISHED WITH THE STRIP SEAL FRAME MUST BE COMPATIBLE WITH THE STEEL FRAME AND MUST PROVIDE A WATERTIGHT JOINT.



**EXISTING NORTH ABUTMENT SECTION (FIXED)**  
 SCALE: 3/4"=1'-0"

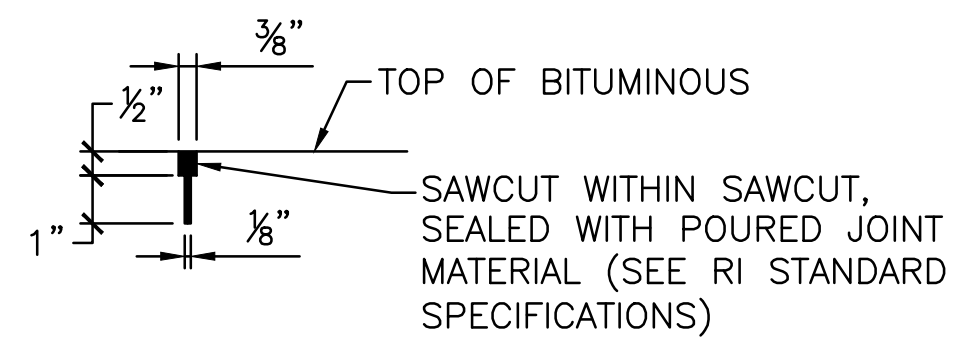


**PROPOSED NORTH ABUTMENT SECTION (FIXED)**  
 SCALE: 3/4"=1'-0"



**10" WATERSTOP**  
 NOT TO SCALE:

**LEGEND:**



**DETAIL 1**  
**SAW & SEAL DETAIL**  
 SCALE: 3"=1'-0"

**ADDENDUM No. 1**

REVISIONS		
NO.	DATE	BY
1	10/01/19	LBG

**RHODE ISLAND**  
**DEPARTMENT OF TRANSPORTATION**

**BRIDGE GROUP 16B**  
 PROVIDENCE COUNTY, RHODE ISLAND  
 BRIDGE NO. 274 COLVIN STREET OVER  
 PAWTUXET RIVER; SCITUATE, RI  
**ROADWAY JOINTS**

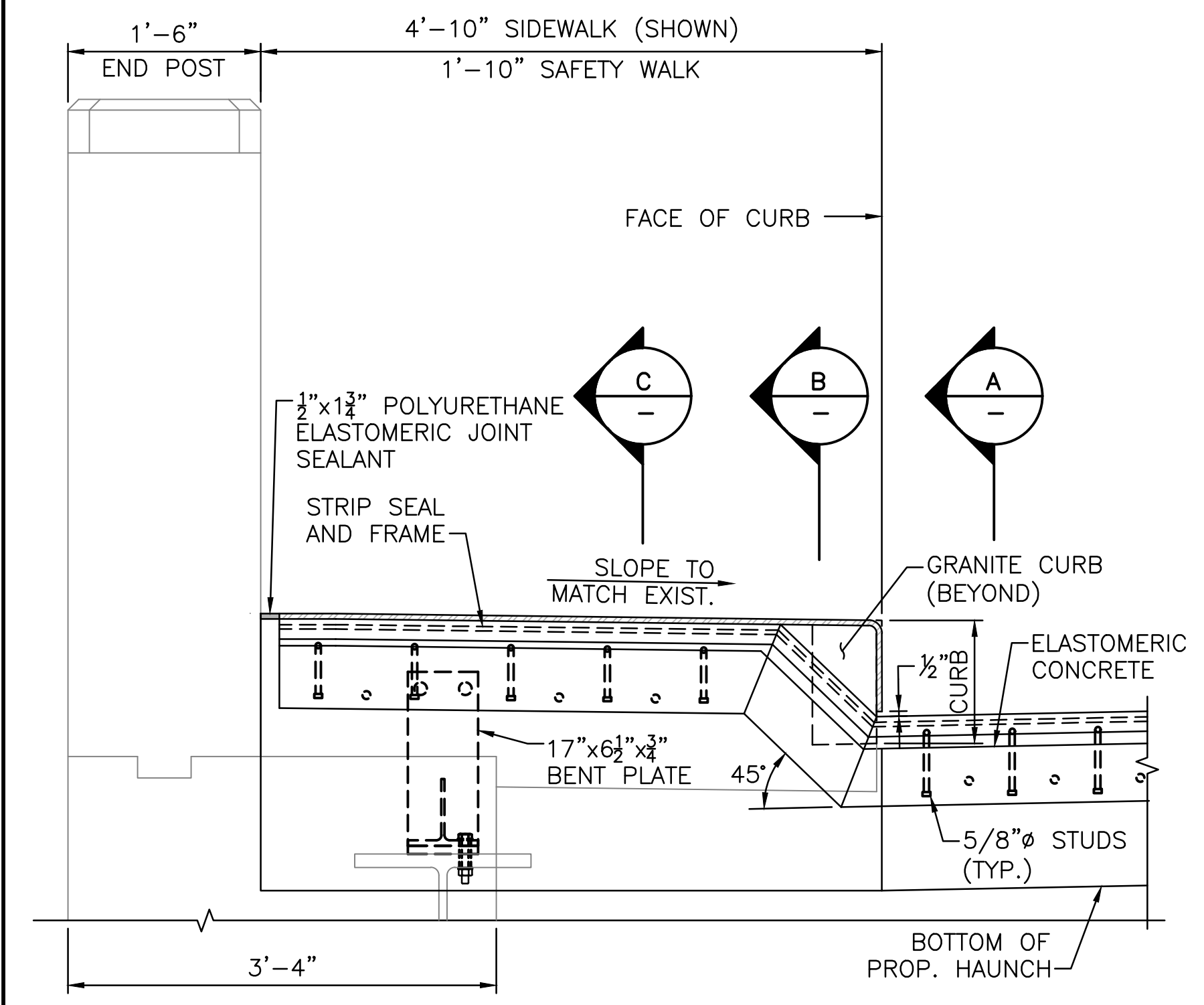
CHECKED BY JPM DATE 09/11/19 SCALE AS NOTED



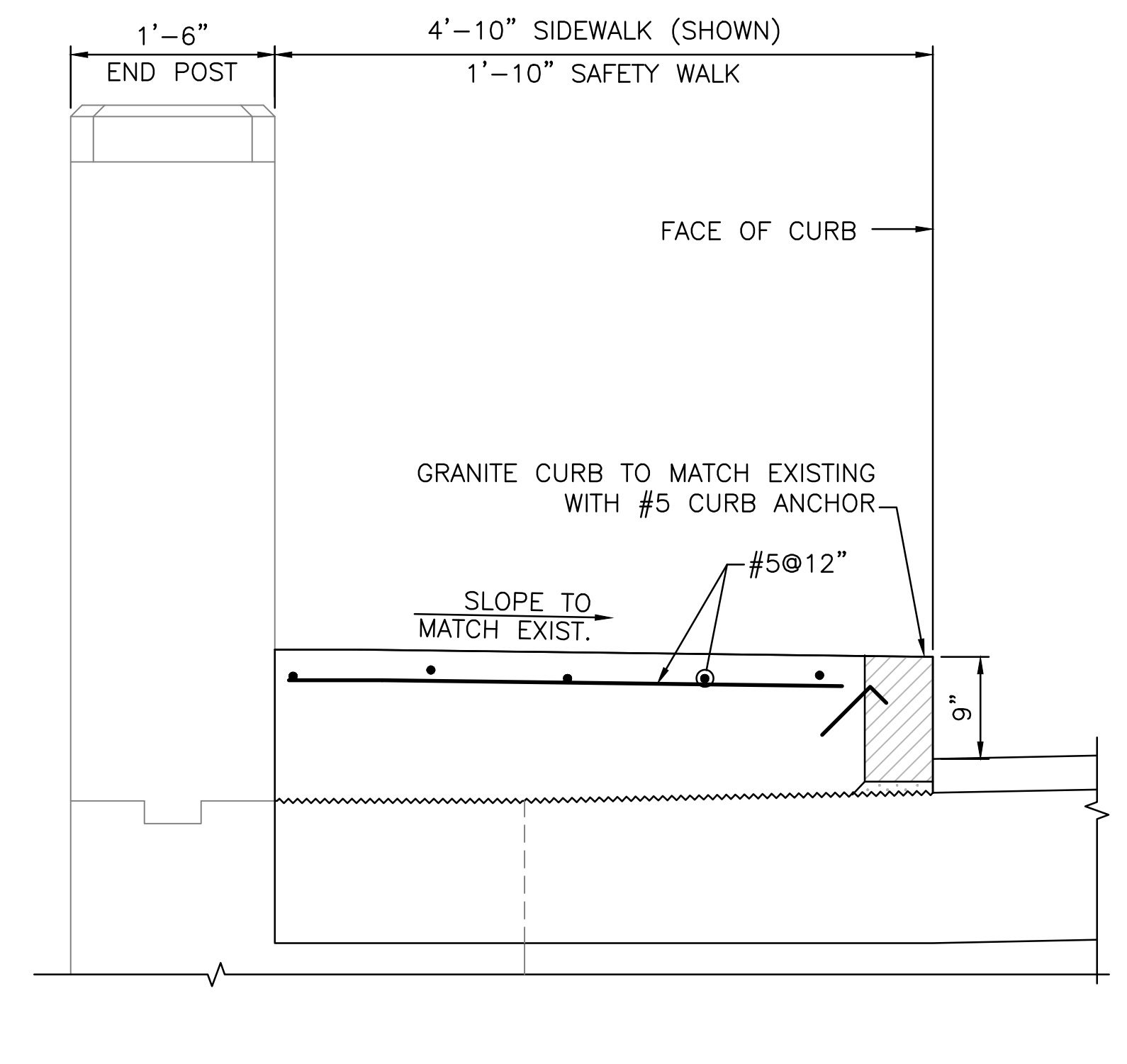
**Louis Berger**  
 166 VALLEY STREET  
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**NOTES:**

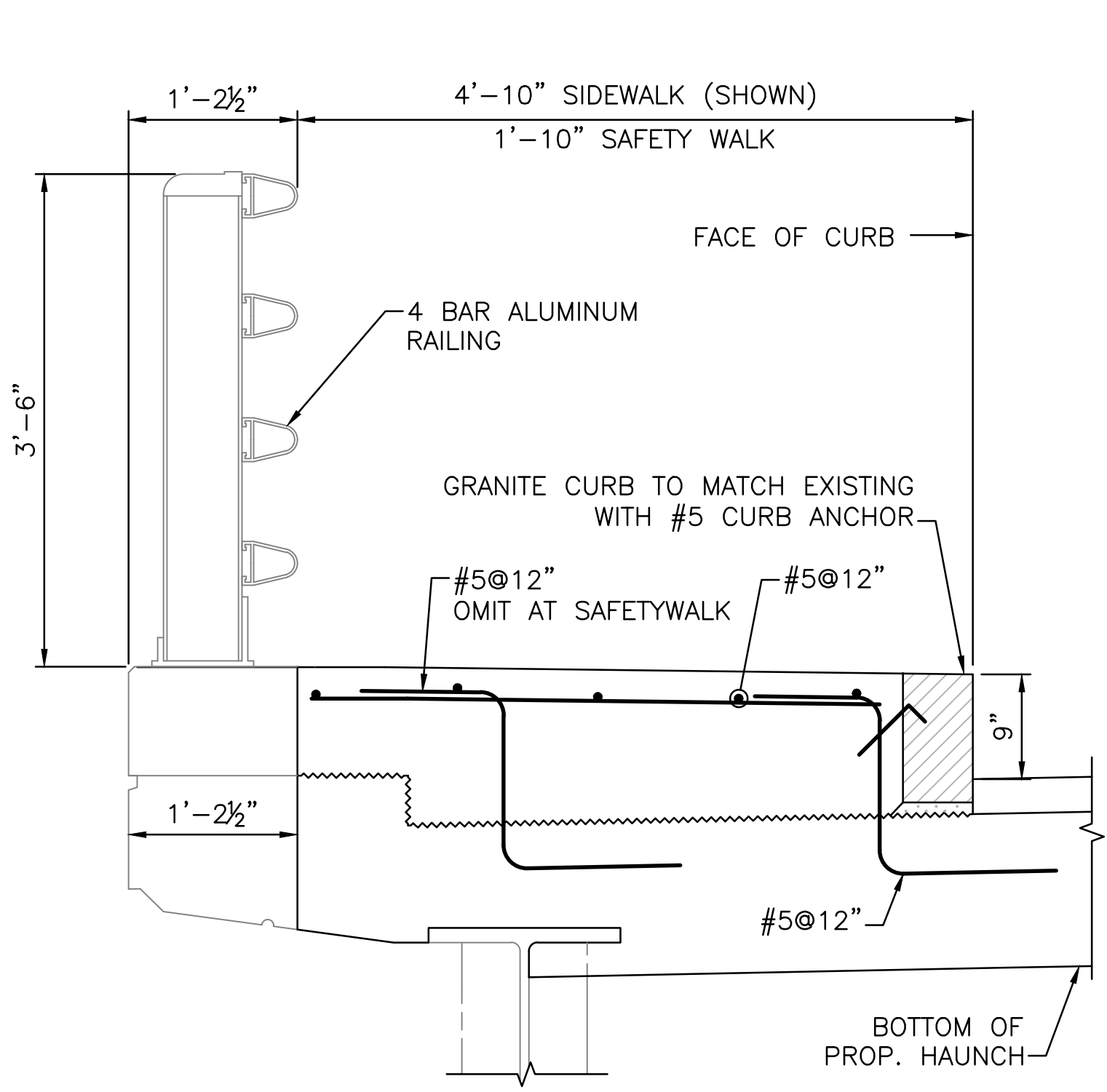
- INSTALL CONTINUOUS NEOPRENE STRIP SEAL IN FIELD, FIELD SPlicing OF STRIP SEAL IS NOT PERMITTED.
- THE ENTIRE EXPANSION STRIP SEAL FRAME SHALL BE ASSEMBLED, ERECTED AND SET TO GRADE PRIOR TO POURING THE DECK CONCRETE. THE EXPANSION DAM SHALL BE CONSTRUCTED TO FOLLOW ROADWAY GRADE AND CROSS SLOPE.
- STRIP SEAL FRAME SHALL BE AASHTO DESIGNATION M 270 GRADE 36. THE STUDS SHALL BE ASTM DESIGNATION A 108, AND SHALL BE WELDED BY THE PRESSURE PROCESS.
- A COAT OF ASPHALT CEMENT PAINT SHALL BE APPLIED TO STEEL SURFACES SLIDING ON THE CONCRETE.
- ALL MATERIALS SHALL BE HOT DIPPED GALVANIZED OR METALIZED EXCEPT WHERE IN CONTACT WITH THE CONCRETE.
- THESE STANDARD DRAWINGS ARE TO BE USED AS A GUIDE IN THE PREPARATION OF THE SHOP DRAWINGS.
- THE NEOPRENE STRIP SEAL SHALL BE BONDED TO THE SEAL FRAME WITH AN APPROVED ADHESIVE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- THE TRANSVERSE BUTT WELDS FOR SPlicing OF THE STEEL FRAME SHALL BE PARTIAL PENETRATION DOUBLE V-GROOVE WELDS ON PREPARED BEVELED EDGES EXTENDING ALL AROUND THE JOINT AS FAR AS PRACTICAL TO ACHIEVE A WATERTIGHT SEAL. THE INSIDE OF THE SEAL CAVITY SHALL NOT BE WELDED. WHERE A TRANSVERSE JOINT OCCURS, TWO ADDITIONAL STUDS MUST BE ADDED ON EACH SIDE OF THE JOINT.
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- THE SEALS FURNISHED WITH THE STRIP SEAL FRAME MUST BE COMPATIBLE WITH THE STEEL FRAME AND PROVIDE A WATERTIGHT JOINT.



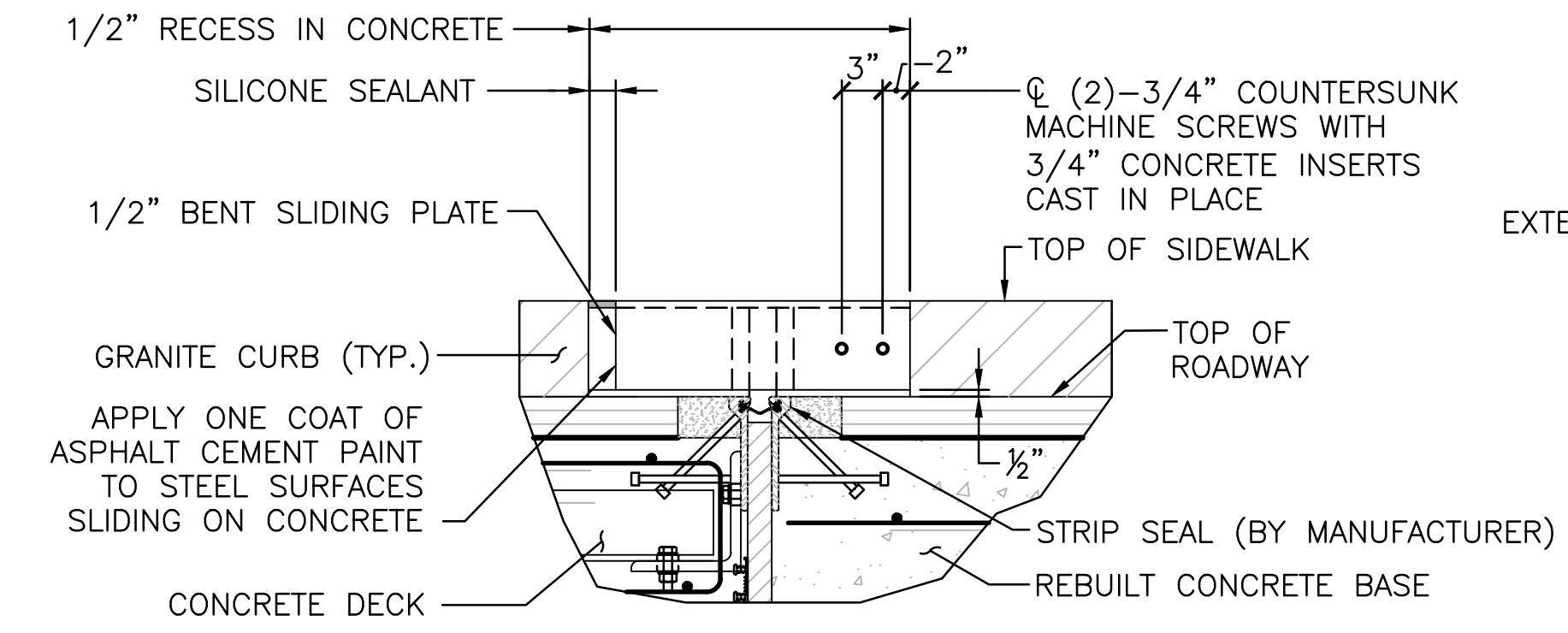
**SIDEWALK SECTION AT STRIP SEAL JOINT**  
SCALE: 1"=1'-0"



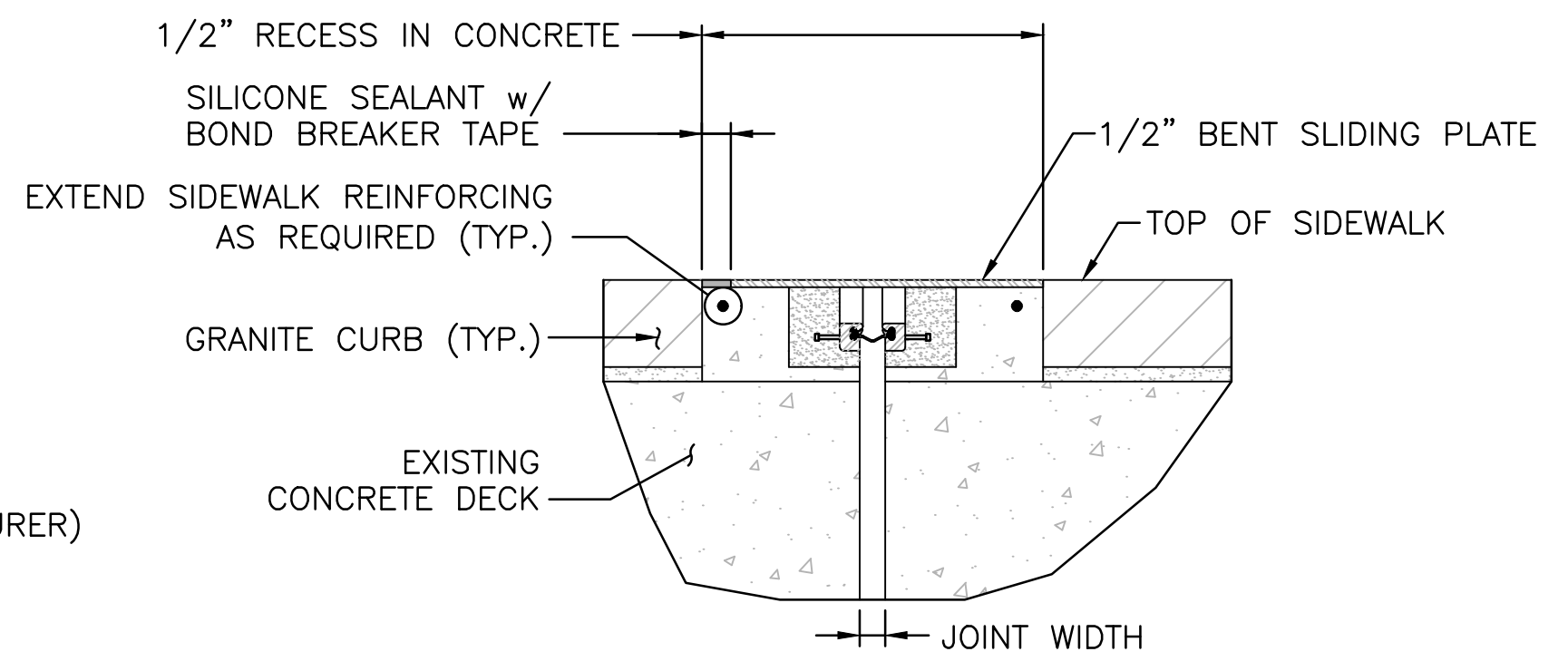
**SIDEWALK SECTION AT APPROACH**  
SCALE: 1"=1'-0"



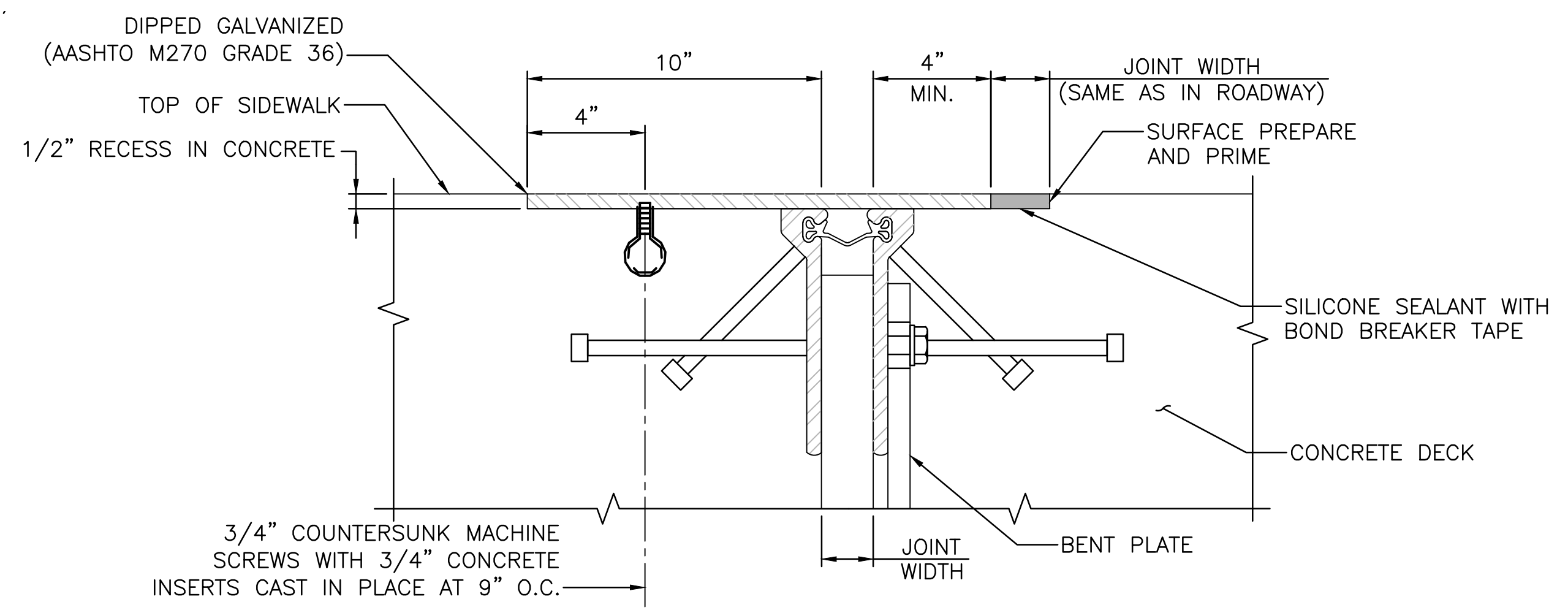
**SIDEWALK SECTION AT DECK END**  
SCALE: 1"=1'-0"



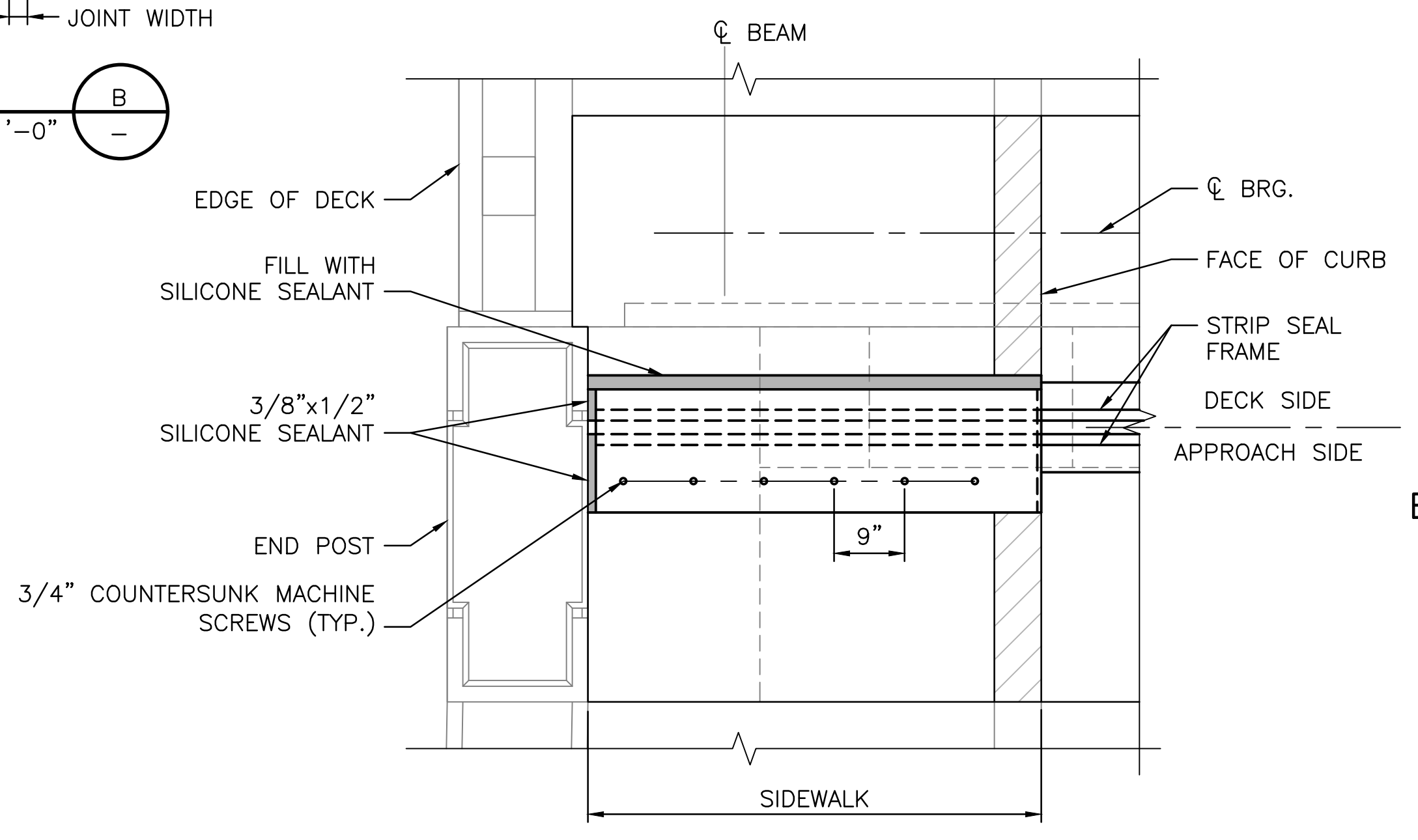
**SECTION A**  
SCALE: 1"=1'-0"



**SECTION B**  
SCALE: 1"=1'-0"



**SECTION C**  
SCALE: 3"=1'-0"



**PLAN AT SIDEWALK**  
SCALE: 3/4"=1'-0"

TEMPERATURE (°F)	JOINT WIDTH (IN.)
15	2 3/8
30	2 1/4
45	2 1/8
60	2
75	1 7/8
90	1 3/4

ENTIRE SHEET ADDED DURING ADDENDUM No. 1

NO.	DATE	BY
1	xx/xx/19	LBG

RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

**BRIDGE GROUP 16B**

PROVIDENCE COUNTY, RHODE ISLAND  
BRIDGE NO. 274 COLVIN STREET OVER  
PAWTUXET RIVER, SCITUATE, RI  
**ROADWAY JOINTS**  
SHEET 2 OF 2

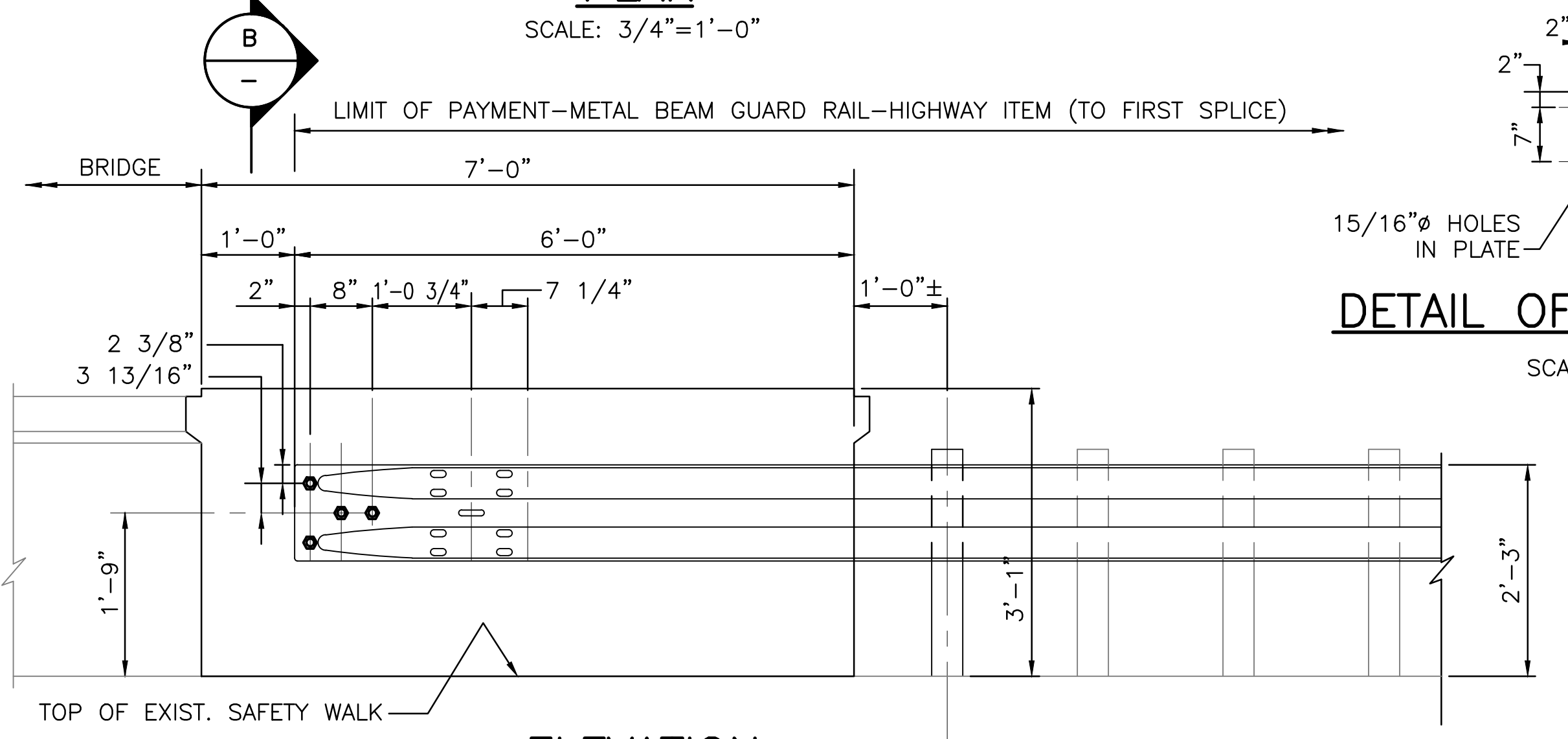
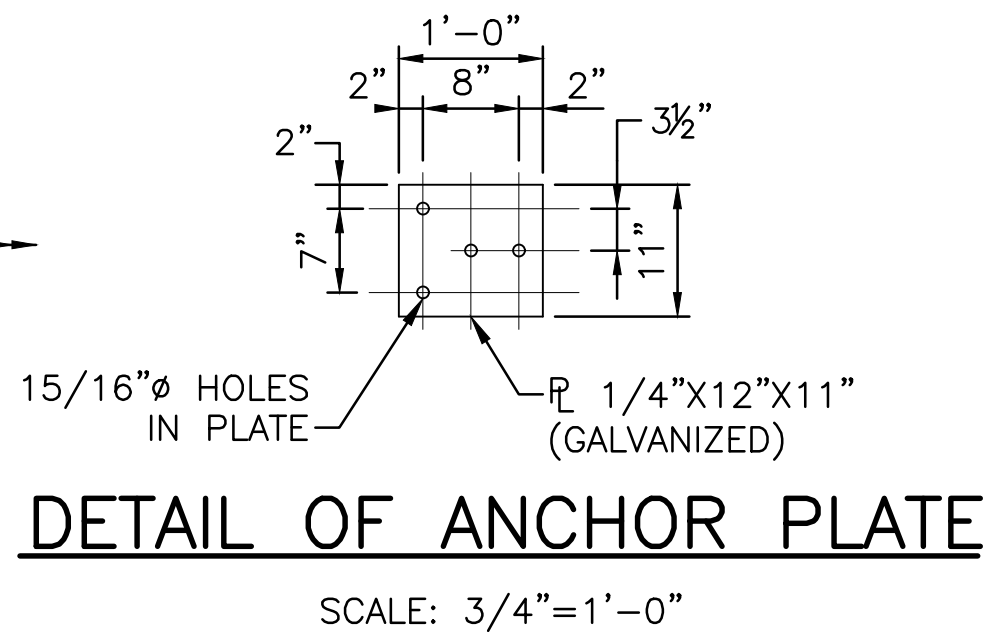
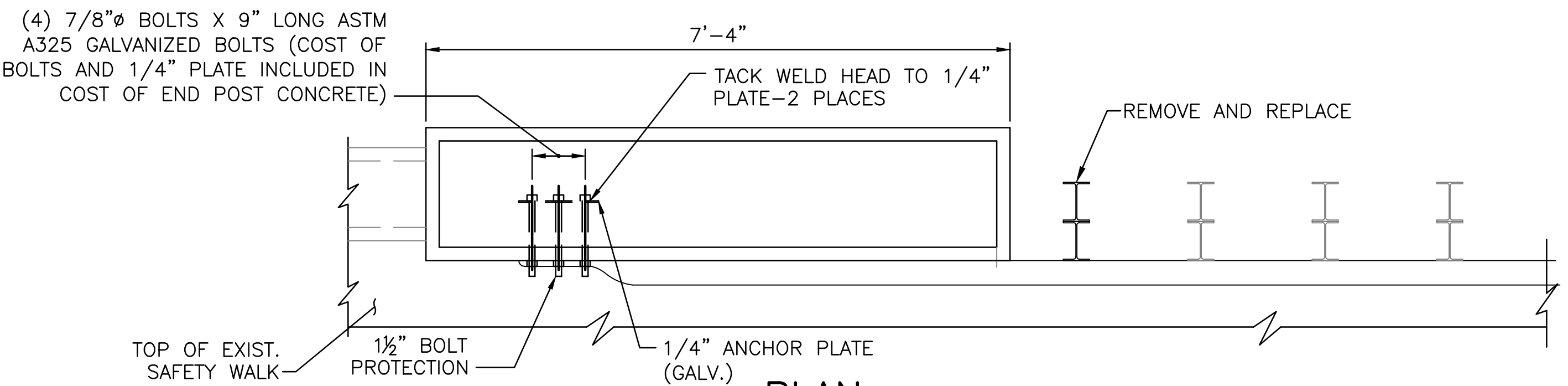
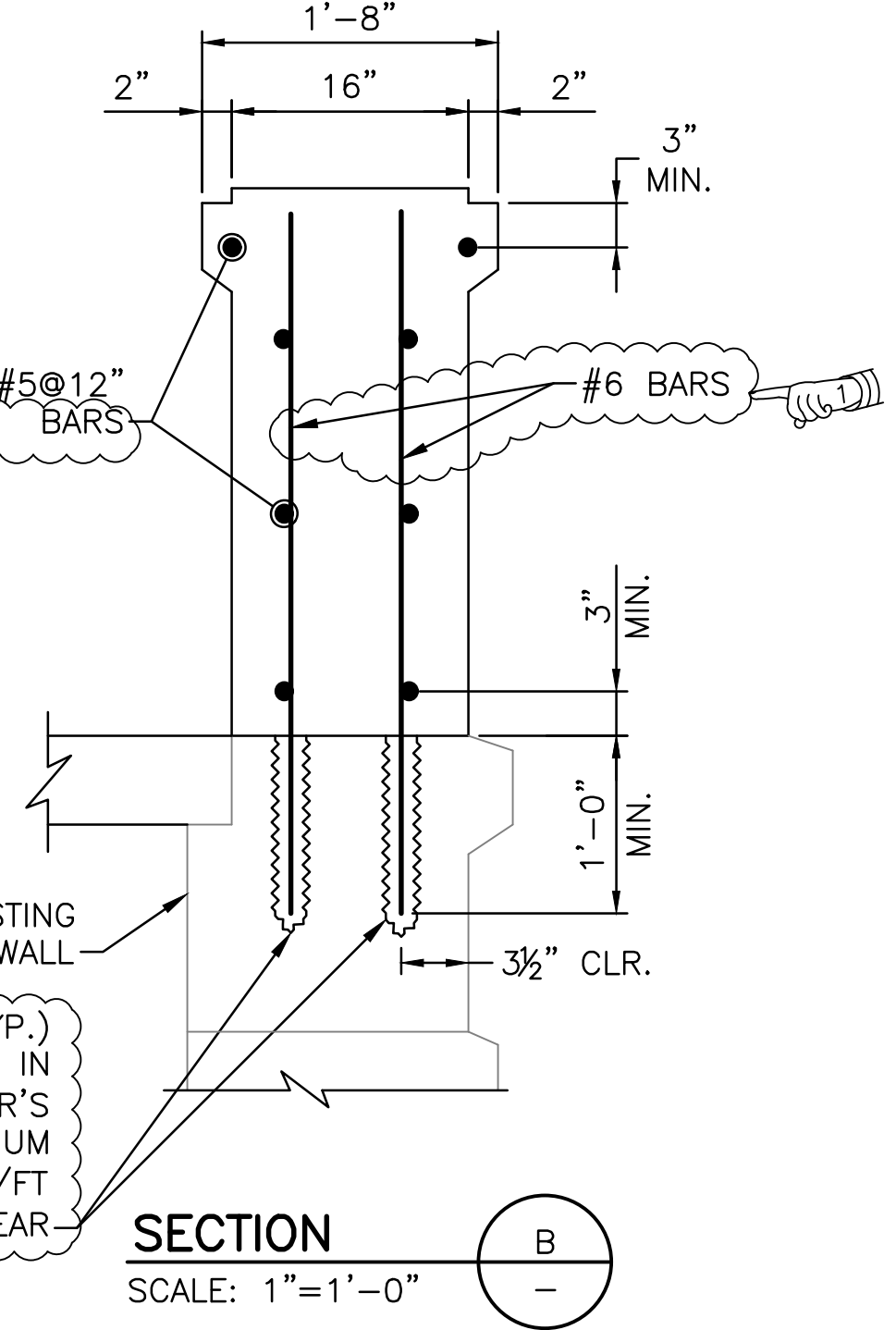
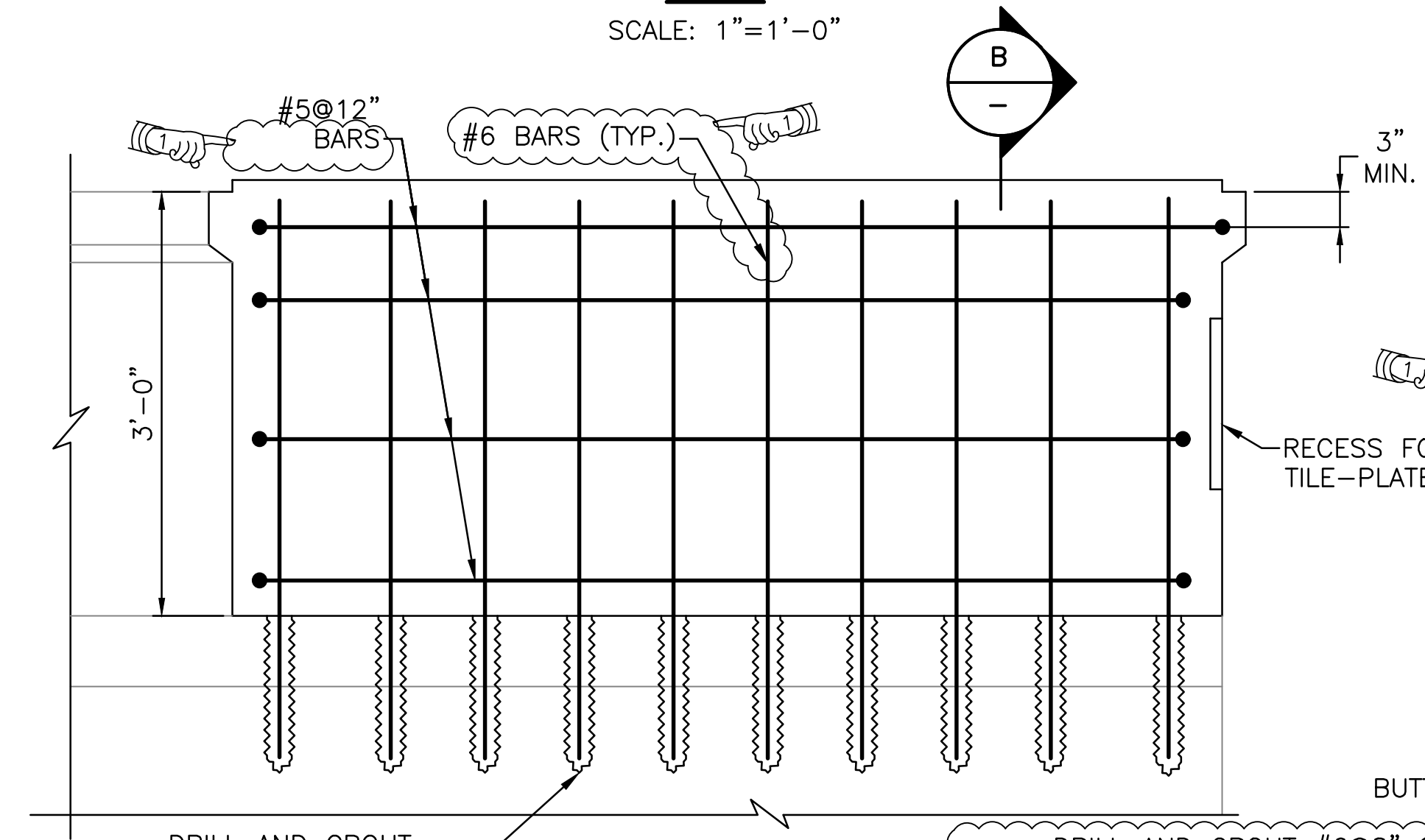
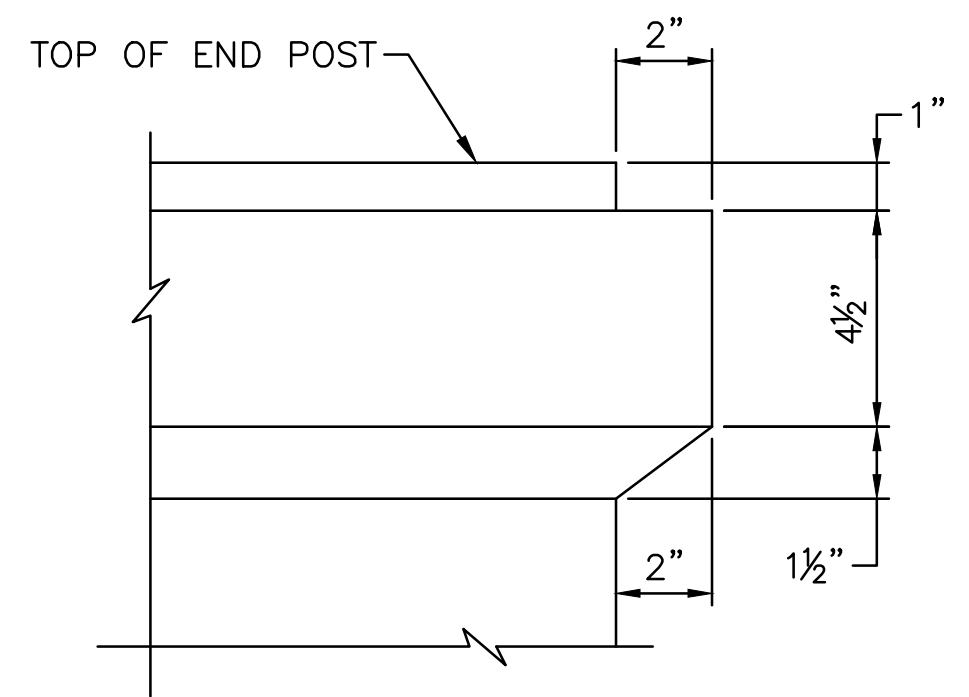
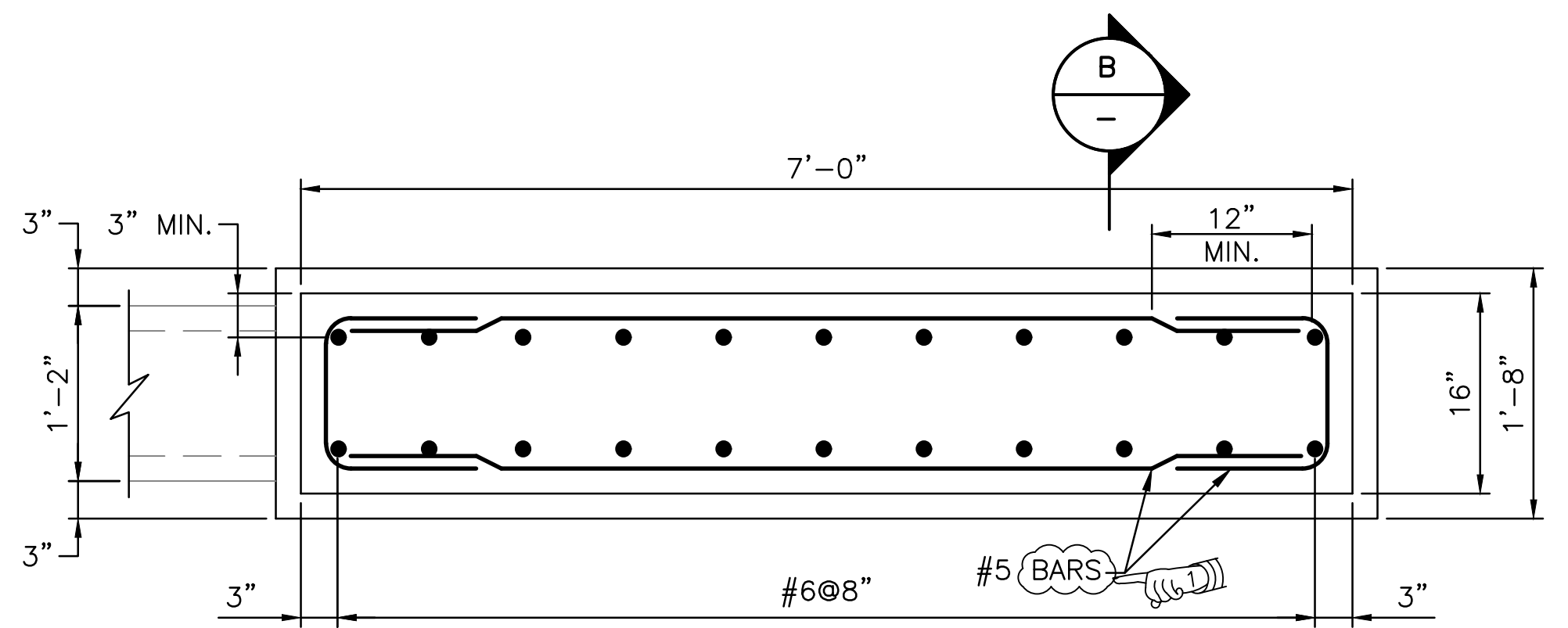
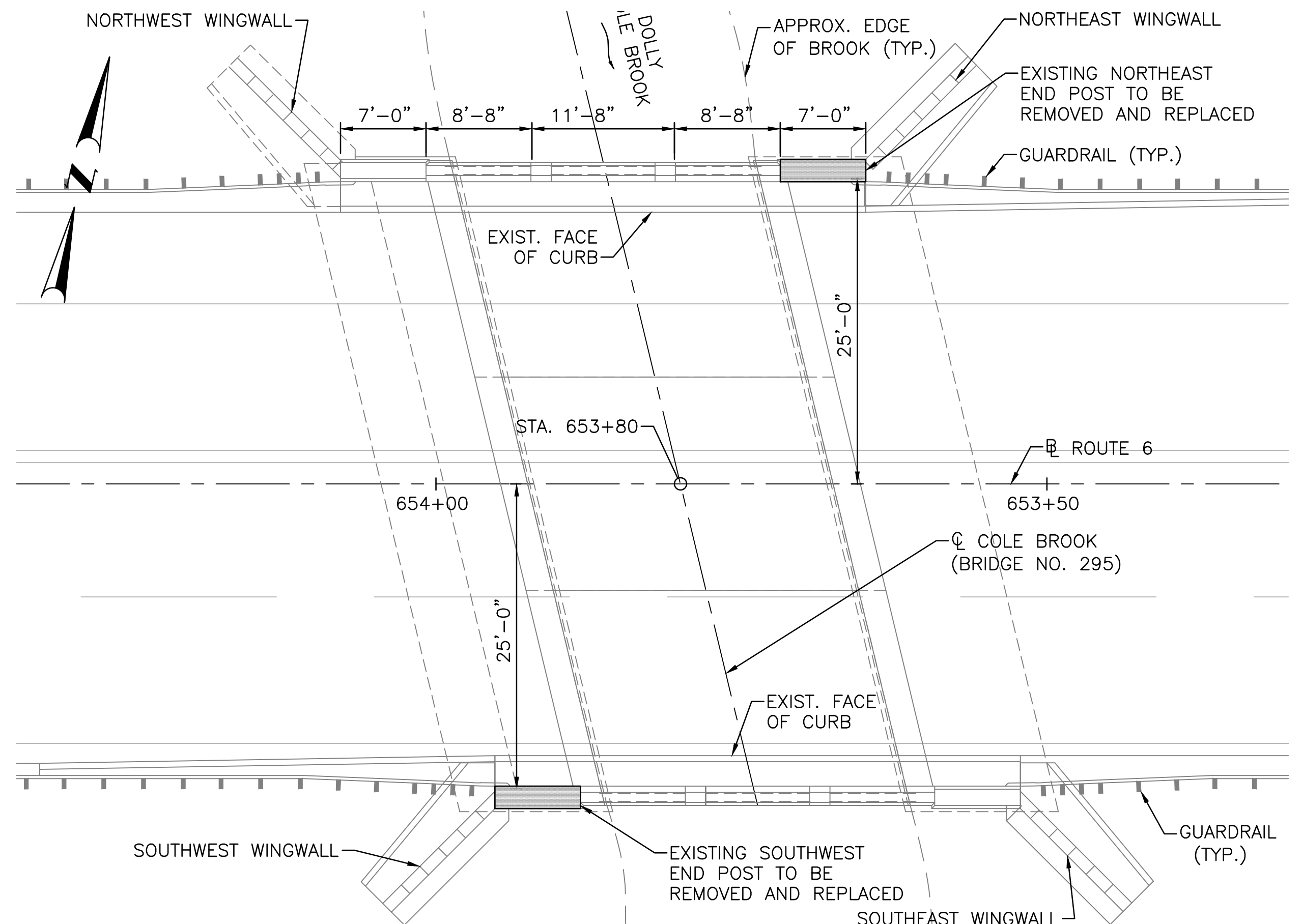
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**END POST NOTES:**

- ALL REINFORCEMENT SHALL BE GALVANIZED PER THE REQUIREMENTS OF RI STANDARD SPECIFICATION SUBSECTION M.05.05 AND PAID FOR UNDER ITEM 810.0210 "GALVANIZED BAR REINFORCEMENT GRADE 60."
- CONCRETE SHALL BE CLASS HP 3/4" AND COLOR MATCHED TO THE EXISTING CONCRETE AND INCLUDED UNDER UNDER ITEM 808.0322 "CONCRETE SUBSTRUCTURE CLASS HP 3/4" END POSTS."
- DRILLING AND GROUTING PROPOSED BARS INTO EXISTING RETURN WALL SHALL BE PAID FOR UNDER ITEM 819.0800 "DRILL AND GROUT REINFORCING DOWELS."
- TILE PLATE SHALL BE REMOVED AND REPLACED. WORK TO REMOVE AND REPLACE TILE PLATES SHALL BE PAID UNDER ITEM 833.0400 GRANITE IDENTIFICATION TABLETS.

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NO.	DATE	BY
1	10/01/19	LBG

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION**

**BRIDGE GROUP 16B**  
 PROVIDENCE COUNTY, RHODE ISLAND

BRIDGE NO. 295 U.S. ROUTE 6 DANIELSON PIKE OVER DOLLY COLE BROOK; FOSTER, RI

**END POST DETAILS**

CHECKED BY JPM DATE 09/11/19 SCALE AS NOTED

ADDENDUM No. 1