

September 28, 2018

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION  
DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID NO. 7596645

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO.2018-CB-083

FEDERAL-AID PROJECT NO. FAP Nos: BHO-0146(026)

**Bridge Group 13A - Rt 146 C-1**

Statewide

CITY/TOWN OF Lincoln, North Smithfield, Providence

COUNTY OF PROVIDENCE

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 2 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.

**A. Specification Change/Addition**

1. Page CS-5

Remove page CS-5 in its entirety and replace it with revised page CS-5 (R-1) attached to this Addendum No. 2. The substantial completion date (Section 7 – Schedule Level) has been revised.

2. Page CS-9

Remove page CS-9 in its entirety and replace it with revised page CS-9 (R-1) attached to this Addendum No. 2. Special Requirements Item i (Section 10 – Sequence of Construction) has been revised.

3. CS Page 12

Remove page CS-12 in its entirety and replace it with revised page CS-12 (R-1) attached to this Addendum No. 2. Section 14 (Contract Submittal List) has been revised.

4. Page CS-13

Remove page CS-13 in its entirety and replace it with revised page CS-13 (R-1) attached to this Addendum No. 2. Section 18 (Coordination With Other Contractors) has been revised.

5. Page CS-16

Remove page CS-16 in its entirety and replace it with revised page CS-16 (R-1) attached to this Addendum No. 2. Section 31 (Environmental Permits) has been revised.

6. CS Appendix A  
Remove TMP page 15 of 16 in its entirety and replace it with revised page 15 of 16 (R-1) attached to this Addendum No. 2. The TMP Approvals have been signed.
7. Page JS-i  
Remove page JS-i in its entirety and replace it with revised page JS-i (R-1) attached to this Addendum No. 2. The index has been revised.
8. Pages JS-16 through JS-19  
Remove pages JS-16 through JS-19 in their entirety and replace them with revised pages JS-16 (R-1) through JS-19 (R-1) attached to this Addendum No. 2. Item Code 413.9901 "Rideability – Surface Course) has been deleted.
9. Pages JS-23 and JS-24  
Remove pages JS-23 and JS-24 in their entirety and replace them with revised pages JS-23 (R-1) and JS-24 (R-1) attached to this Addendum No. 2. The Description for Items 800.9901, 800.9902, 800.9903, 800.9904 and 800.9906 has been revised.
10. Pages JS-25 through JS-27 and JS-27A  
Remove pages JS-25 through JS-27 in their entirety and replace them revised pages JS-25 (R-1) through JS-27 (R-1) and insert new page JS-27A attached to this Addendum No. 2. The Control of Water (Method of Construction) section has been revised.
11. Page JS-32  
Remove page JS-32 in its entirety and replace it with revised page JS-32 (R-1) attached to this Addendum No. 2. The Method of Measurement and Basis of Payment have been revised.

**B. Drawings/Plans - Change/Addition**

1. Plan Sheet No. 1 – Cover Sheet  
Remove Sheet No. 1 in its entirety and replace it with revised Sheet No. 1 (R-1) attached to this Addendum No. 2. The Cover Sheet has been signed.
2. Plan Sheet No. 5 - Job Specific Legend  
Remove Sheet No. 5 in its entirety and replace it with revised Sheet No. 5 (R-1) attached to this Addendum No. 2. The description for (CPRS) has been revised and Job Specific Drainage and Erosion Control Notes Note 7 has been added.
3. Plan Sheet No. 9 - General Plan No. 1  
Remove Sheet No. 9 in its entirety and replace it with revised Sheet No. 9 (R-1) attached to this Addendum No. 2. The approximate length of pavement dimension has been added.
4. Plan Sheet No. 22 – Spring Brook Bridge No. 440 Concrete Repair Details Sheet 2  
Remove Sheet No. 22 in its entirety and replace it with revised Sheet No. 22 (R-1) attached to this Addendum No. 2. The Proposed Contraction Joint detail has been revised.
5. Plan Sheet No. 28 – Forestdale Bridge No. 445 Concrete Repair Details Sheet 2  
Remove Sheet No. 28 in its entirety and replace it with revised Sheet No. 28 (R-1) attached to this Addendum No. 2. The Proposed Contraction Joint detail has been revised.

6. Plan Sheet No. 38 – Old Great Road Bridge No. 448 Concrete Repair Details Sheet 2  
Remove Sheet No. 38 in its entirety and replace it with revised Sheet No. 38 (R-1) attached to this Addendum No. 2. The Proposed Contraction Joint detail has been revised.
7. Plan Sheet No. 42 – Concord Street Bridge No. 714 Bridge General Plan  
Remove Sheet No. 42 in its entirety and replace it with revised Sheet No. 42 (R-1) attached to this Addendum No. 2. The General Plan and Description of Proposed Repair Work have been revised.
8. Plan Sheet No. 43 – Concord Street Bridge No. 714 Longitudinal and Transverse Section  
Remove Sheet No. 43 in its entirety and replace it with revised Sheet No. 43 (R-1) attached to this Addendum No. 2. The Longitudinal Section and Transverse Section have been revised.
9. Plan Sheet No. 57 - Maintenance and Protection of Traffic Plan No. 4  
Remove Sheet No. 57 in its entirety and replace it with revised Sheet No. 57 (R-1) attached to this Addendum No. 2. A callout for the Shock Absorbing Barrier Module (SABM) has been moved on Route 146 Southbound. The shifting lane taper lengths have been revised.
10. Plan Sheet No. 58 - Maintenance and Protection of Traffic Plan No. 5  
Remove Sheet No. 58 in its entirety and replace it with revised Sheet No. 58 (R-1) attached to this Addendum No. 2. The shifting lane taper lengths have been revised.
11. Plan Sheet No. 59 - Maintenance and Protection of Traffic Plan No. 6  
Remove Sheet No. 59 in its entirety and replace it with revised Sheet No. 59 (R-1) attached to this Addendum No. 2. The shifting lane taper lengths have been revised.
12. Plan Sheet No. 62 - Maintenance and Protection of Traffic Plan No. 9  
Remove Sheet No. 62 in its entirety and replace it with revised Sheet No. 62 (R-1) attached to this Addendum No. 2. The shifting lane taper lengths have been revised.
13. Plan Sheet No. 63 - Maintenance and Protection of Traffic Plan No. 10  
Remove Sheet No. 63 in its entirety and replace it with revised Sheet No. 63 (R-1) attached to this Addendum No. 2. The shifting lane taper lengths have been revised.
14. Plan Sheet No. 64 - Maintenance and Protection of Traffic Plan No. 11  
Remove Sheet No. 64 in its entirety and replace it with revised Sheet No. 64 (R-1) attached to this Addendum No. 2. The shifting lane taper lengths have been revised.

**C. Distribution of Quantities**

1. Index Page 1  
Remove Index Page 1 and replace it with revised Index Page 1 (R-1) attached to this Addendum No. 2. The table of Contents has been revised.
2. Index Page 2  
Remove Index Page 2 and replace it with revised Index Page 2 (R-1) attached to this Addendum No. 2. The table of Contents has been revised.

3. Index Page 3  
Remove Index Page 3 and replace it with revised Index Page 3 (R-1) attached to this Addendum No. 2. The table of Contents has been revised.
4. Page 4  
Remove Page 4 and replace it with revised Page 4 (R-1) attached to this Addendum No. 2. The quantity for Item Code 204.0100 Trimming and Fine Grading has been revised.
5. Page 5  
Remove Page 5 and replace it with revised Page 5 (R-1) attached to this Addendum No. 2. The quantity for Item Code 204.0100 Trimming and Fine Grading has been revised.
6. Page 6  
Remove Page 6 and replace it with revised Page 6 (R-1) attached to this Addendum No. 2. The quantity for Item Code 204.0100 Trimming and Fine Grading has been revised.
7. Page 8  
Remove Page 8 and replace it with revised Page 8 (R-1) attached to this Addendum No. 2. The quantity for Item Code 302.0100 Gravel Borrow Subbase has been revised.
8. Page 9  
Remove Page 9 and replace it with revised Page 9 (R-1) attached to this Addendum No. 2. The quantity for Item Code 302.0100 Gravel Borrow Subbase has been revised. The quantity for Item Code 401.2100 Modified Class 12.5 HMA has been revised.
9. Page 10  
Remove Page 10 and replace it with revised Page 10 (R-1) attached to this Addendum No. 2. The quantity for Item Code 401.2100 Modified Class 12.5 HMA has been revised.
10. Page 33  
Remove Page 33 and replace it with revised Page 33 (R-1) attached to this Addendum No. 2. Item Code L01.0102 Loam Borrow has been deleted.
11. Page 34  
Remove Page 34 and replace it with revised Page 34 (R-1) attached to this Addendum No. 2. Item Code L01.0102 Loam Borrow has been deleted.
12. Page 35  
Remove Page 35 and replace it with revised Page 35 (R-1) attached to this Addendum No. 2. Item Code L02.0102 Residential Seeding has been deleted.
13. Page 36  
Remove Page 36 and replace it with revised Page 36 (R-1) attached to this Addendum No. 2. Item Code L02.0102 Residential Seeding has been deleted.



RI Department of Transportation

Administrator, Division of Project Management

## 6. UNIT BID ITEM AND LUMP SUM BID ITEM PAYMENTS

For requirements and work described in the Contract Documents but not expressly identified to be measured separately for payment, the costs thereof shall be included in the contract bid prices of the items of work to which they pertain as listed in the Proposal.

## 7. SCHEDULE LEVEL

The Contractor must submit, for the Department's review and acceptance, a detailed construction schedule that complies with the Specification 108.03. For this project the required Schedule Level is "B".

### MILESTONE SCHEDULE DATES

The following substantial completion dates has been established for the assessment of liquidating damages. Refer to the referenced special provisions and "Sequence of Construction" of these Contract Specific pages for more information.

Substantial Completion

December 6, 2019

Refer to Code 108.1000, "Prosecution and Progress" for the definition of the above Interim and Substantial Completion Dates.

## 8. UTILITY AND MUNICIPAL NOTIFICATION AND COORDINATION

The Contractor shall be required to work within the space restrictions of the existing underground and overhead utilities present within the work space. The relocation of utilities are not anticipated or included in the construction of this project. Existing utilities will remain in-place and undisturbed throughout the construction duration without any disruption to service. The Contractor shall adhere to all clearances and safety requirements of the affected utility company.

It is required that the Contractor notify each utility company no less than two (2) weeks in advance of any work near the existing utility facilities to remain.

Existing utilities have been shown on the Plans using the best available information and are approximate. The Contractor shall check and verify the location of all existing drainage and utilities, both underground and overhead, with Dig Safe at (888) DIG-SAFE before any work begins, in accordance with Chapter 39-1.2 of the Rhode Island General Laws entitled "Excavation Near Underground Utility Facilities", with all amendments effective as of November 1, 2009 and, when necessary, by contacting the individual utility companies. All work shall be in accordance with all statutes, ordinances, rules and regulations of any applicable city, town, state or federal agency. The Contractor should be aware that not all utility companies subscribe to the Dig Safe Program. It is the

sequence or time schedule shall fully address the phasing of all traffic control. The schedule shall accommodate the bridge construction phasing specified in the Contract Documents.

- c. The Contractor shall perform the proposed work during day and/or night as specified in this General Provision and in the Transportation Management Plan (TMP). Deviations from the requirements stated herein or detailed in the contract drawings, as well as any deviation from the approved construction work sequence and time schedule, shall be submitted to the Engineer in writing for approval.
- d. The access requirements. The Contractor shall recognize the limits of disturbance (LOD) depicted on the plans and the constraints associated with various equipment required to perform the work from within the LOD. Any change to the LOD will require RIDEM approval.
- e. The Contractor shall sequence the work within all phases of construction in a manner that utilizes the work zones, right of way, and traffic lane configurations established in the Contract Plans and which minimizes impacts and inconveniences to vehicular and pedestrian traffic. Due to the limited available area, multiple traffic persons and flagpersons may be required to periodically stop traffic in the work area for access and egress of equipment. It is the Department's intent to keep these interruptions to traffic flow to a minimum. In the event these delays are deemed unacceptable, the Contractor shall be required to re-sequence his construction operations at no additional cost to the State.
- f. The Contractor shall be responsible for maintaining drainage and runoff flow during periods of rainfall throughout the work area. All materials and work associated with such measures shall be considered incidental to the construction and included with the cost for the associated bid items. The sequence of permanent and temporary drainage installation shall accommodate the construction phasing specified in the Plans.
- g. The Contractor shall maintain access to all private properties and local businesses during the entire project duration. All curb cuts and openings shall be maintained. In addition, if separate agreements are made with other private property owners, the Contractor shall provide to the Engineer copies of any Temporary Use Agreements or easements as necessary.
- h. The Contractor will be allowed to work on multiple bridges simultaneously within the restrictions noted in the TMP.
- i. The proposed construction staging areas must be coordinated with the Engineer for approval prior to the start of work. There shall be no parking or storage of construction equipment under the drip lines of any trees. The contractor shall provide and maintain a construction entrance for any staging area or parking area where soil or sediment can be tracked onto the roadway. No separate payment shall be made for the installation and maintenance of the construction entrances

The Contractor shall prepare the Contract Submittal List identifying all Submittals (shop drawings, certification, catalog cuts, material certification, material samples, etc.) which deviate from the Contract Documents, Plans, and Specifications.

The list of the shop drawings required for this project includes, but is not limited to, the following:

- a. Longitudinal Median Joint Seal – Bridge No. 714
- b. Means, Methods and Equipment for Structure Concrete Masonry Repairs (Including Concrete Color Samples)
- c. Cold Spray Applies Liquid Membrane Waterproofing
- d. Reinforced Concrete Bridge Railings and Posts
- e. Steel Bar Reinforcement, including Galvanizing
- f. Bridge-Mounted Thrie Beam Guardrail
- g. Asphaltic Joint System
- h. Anchored and Unanchored Barrier for Temporary Traffic Control on Bridges
- i. Structural Steel Paint Systems
- j. Surface Preparation of Structural Steel for Painting – Means & Methods
- k. Containment, Collection, Storage & Disposal of Debris and Spent Material
- l. Personnel and Environmental Protection During Cleaning, Surface Preparation and Painting Operations
- m. Temporary Protection of Existing Oil Line – Bridge No. 447
- n. Control of Water and Dewatering – Bridge No. 1191

#### **15. INCIDENT MANAGEMENT**

In the event of an accident, or other unforeseen incident, the Contractor shall positively cooperate with local authorities by providing traffic control devices, personnel, equipment and material as required, both on and off site. The Contractor shall assist in whatever way possible to clear debris from the roadway and maintain traffic flow. Payment for this work shall be on a force account basis. If the personnel are not available on site, they shall be “on call”, and able to respond to the site within one hour of notification to the Contractor’s appointed representative by phone, or in person to the Department of Transportation.

#### **16. CONTRACTOR’S RESPONSIBILITY FOR DAMAGED STORM DRAINS**

The Contractor shall use care when working within or in the vicinity of existing drainage structures. Any drainage pipe or culverts damaged while carrying out work on this contract shall be the Contractor’s responsibility. Any pipe/culvert damaged by the Contractor while carrying out this contract shall be replaced, or repaired by the Contractor to the satisfaction of the Engineer at no additional charge to the Contract.

The Contractor shall use care when working within or in the vicinity of existing utilities. Any utility pipe, equipment, conduit, wire, cable or appurtenances damaged while carrying out any other work on this contract shall be the Contractor's responsibility. Any utility pipe, equipment, conduit, wire, cable or related appurtenance damaged by the Contractor while carrying out this Contract shall be replaced or repaired by the Contractor to the satisfaction of the Engineer at no additional charge to the Contract.

**18. COORDINATION WITH OTHER CONTRACTORS**

It shall be the Contractor's responsibility to coordinate, cooperate, and schedule his work and all segments thereof with the Engineer, other contractors, property owners, utility owners, and applicable local authorities, so as to minimize impacts to all existing and/or future construction project schedules. Refer to Section 105.07 of the RI Standard Specifications additional information.

Coordination with Route 146 Corridor Bridges (RIC# 2017-CB-071) is required.

**19. WINTER WORK**

The winter shutdown shall be as described in Section 101.80 of the Rhode Island Standard Specifications with all changes and addenda.

**20. TRANSPORTATION MANAGEMENT PLAN**

The Transportation Management Plan (TMP) for this project is included as an Appendix "A" to these Contract Specific General Provisions. The TMP lays out the set of coordinated transportation management strategies that will be used to manage the work zone safety and mobility impacts of this project. In the event of a discrepancy between information in the TMP and information elsewhere in the Contract Documents, the former shall govern.

The Contractor's attention is called to the applicable sections of Section 100 of the Rhode Island Standard Specifications, which describes the requirements for the Contractor's designation of a TMP Implementation Manager for the Contract, and also which describes the requirements for the training of all Contractor and Subcontractor personnel involved in work zone design, implementation, operation, inspection, management, and/or enforcement.

The Department's latest Training Guidelines for Personnel Responsible for Work Zone Safety & Mobility are available under the "Training" section at: <http://www.dot.ri.gov/business/contractorsandconsultants.php>

**21. SPECIAL REQUIREMENTS FOR PAVEMENT MARKINGS**

All pavement markings are to be in accordance with the requirements of the latest edition of the MUTCD, with all of the latest revisions. All striping shall taper to match existing pavement markings at the project limits, where required.

It is the Contractor's responsibility to reflect the exact location of all existing



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.

**28. STATE AND LOCAL POLICE COMPENSATION**

Upon award of the contract and approval of the schedule, but prior to 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 services of the police.

**29. RIGHT-OF-WAY AND DAMAGE TO PROPERTY**

The Contractor shall note that the construction access is limited to the existing public right-of-way. The Contractor's operations may occupy only those portions of streets or public places at the sites within the existing public right-of-way. If the Contractor desires to use additional areas outside of those sites, he shall arrange for such areas at his own expense.

The Contractor shall be responsible for carrying out the work in accordance with the provisions of all permits and stipulations.

The Contractor shall assume all risk and liability for his equipment on site during both working and non-working hours.

**30. DOCUMENT MANAGEMENT AND CONTROL**

The Department has a standard document management and control program for all contracts. The intent of the program is to provide a system that enables an orderly and timely response to all project correspondence. To support this system, the Contractor shall strictly follow these document control standards.

**31. ENVIRONMENTAL PERMITS**

Rhode Island Department of Environmental Management (RIDEM) has determined that the project is exempt under Rule 6.03. RIDEM Freshwater Rules shall be adhered to. All conditions and restrictions noted in the Contract Documents shall be adhered to. All costs associated with these conditions and stipulations shall be included in the various unit prices and the lump sum prices bid for the items in the contract.

A RIPDES permit is not required for the project.

**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 Manager of Project Management, 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 Manager of Project Management, 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 Manager of Project Management, 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			STATE TRAFFIC ENGINEER			CHIEF ENGINEER		
Signature: <i>David W. Fish</i> David W. Fish, P.E.			Signature: <i>Stéve W. Pristawa</i> Stéve W. Pristawa, PE			Signature: <i>Robert Rocchio</i> Robert Rocchio, P.E.		
Date: 9-25-18			Date: 9-25-18			Date: 9-25-18		
Revision #	Initials	Date	Revision #	Initials	Date	Revision #	Initials	Date

**SPECIFICATIONS – JOB SPECIFIC****INDEX**

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817.9903	Repairs to Structure Concrete Masonry (Form and Cast-in-Place Concrete)	
817.9904	Repairs to Structure Concrete Masonry – Median (Form and Cast-in-Place Concrete)	
817.9905	Repairs to Structural Concrete Masonry – Concrete Girders (Patching Mortar)	

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**CODE 800.9901 SPRING BROOK BRIDGE No. 440**  
**CODE 800.9902 FORESTDALE BRIDGE No. 445**  
**CODE 800.9903 GREAT ROAD BRIDGE No. 447**  
**CODE 800.9904 OLD GREAT ROAD BRIDGE No. 448**  
**CODE 800.9906 CONCORD STREET BRIDGE No. 714**

**DESCRIPTION:** This work consists of all work associated with the repair and or construction at the bridges as depicted on the plans. Work shall include both super and substructure work as defined below and is not limited to furnishing, storing, handling, hauling and delivering, erecting, and assembly.

This item shall comprise all work pertaining to removal and disposal of portions of the existing superstructure and substructure elements and replacement with new elements as identified on the construction drawings including: Removing and disposing existing traffic barriers (at Bridge No. 440 Railing). Removal and replacement of two sections of reinforced concrete bridge post and railing (Bridge No. 440). Routing, removing and disposing existing bridge joints, joint sealants, sealers and fillers and replacing with new materials as detailed on the plans. Removal and disposal of existing flexible pavement for resealing of deck slab longitudinal joints (Bridge Nos. 440, 445 & 448). Removal and disposal of existing flexible pavement on Bridge No. 714. Removal and disposal of waterproofing membrane. Designing, furnishing, fabricating, installing and removing temporary screens and or protective demolition shielding. Unless noted otherwise, saw cutting and coring holes associated with the work to be performed. Removal and disposal of existing bridge mounted guardrail and exposed portions of anchor bolts. Installation of new bridge mounted anchored thrie beam guardrail. Installation of new bridge mounted concrete railing and posts. Cleaning bridge beam seats as indicated. Cleaning and flushing bridge scuppers and piping. Installation of; missing diaphragm bolts, new asphaltic expansion joint system, new longitudinal joint sealer, waterproofing membrane, concrete surface treatment, bridge bituminous asphalt wearing surfaces (Bridge No. 714 and over resealed deck slab longitudinal joints (Bridge Nos. 440, 445 & 448), saw & seal bituminous pavement. Temporary protection of existing oil line (Bridge No. 447). Earthwork, various structural excavations and backfill operations and materials required to do the work including loaming and seeding shall be included. Surface preparation and painting of existing steel bridge railings including, handling containment and disposal of spent material, and environmental and personnel protection during painting operations. Support of excavation. Dewatering. Control of Water.

Except for the excluded bid items listed in the "Excluded Items of Work" section on page 2, this work consists of all work required to complete the repair work at the respective bridges as shown on the Contract Drawings and in accordance with the Contract Documents.

Superstructure: All the components above the beam seats inclusive of the portions of the concrete bridge; deck, slab and sidewalks; the roadway, sidewalks and medians,



bridge joints, bridge railings, joint sealants, foam fillers, components or materials that are embedded, attached, or applied.

Substructure: All components attached to the portions of the existing reinforced concrete abutments to remain including approach slabs, backwalls, return walls, bridge rail, and other components or materials that are embedded, attached, or applied.

The Contractor shall make adequate provisions for the protection of public or private property during construction activities. As a minimum the Contractor shall install temporary protective screens and deck underside shielding in the vicinity of the work during all phases of construction as noted on the plan sheet "Bridge General Notes Sheet 2".

Removal of debris from the rivers within the vicinity of the bridges or culverts as designated on the plans shall be included in this work.

Excluded Items of Work: Bid items listed in the proposal pages. The work pertaining to the following items of work are excluded from this lump sum item and instead will be measured and be paid for separately under their own appropriate unit bid or lump sum items as listed in the Proposal:

- Item 817.9901 Structural Concrete Masonry Bridge Railing Repair
- Item 817.9902 Repairs to Structure Concrete Masonry (Patching Mortar)
- Item 817.9903 Repairs to Structure Concrete Masonry (Form and Cast-in-Place Concrete)
- Item 817.9904 Repairs to Structure Concrete Masonry – Median (Form and Cast-in-Place)
- Item 817.9905 Repairs to Structural Concrete Masonry – Concrete Girders (Patching Mortar)
- Item 817.9910 Portland Cement Concrete Masonry Deck Repairs
- Item 836.0100 Structural Concrete Crack Repairs by Epoxy Resin Base Adhesive Injection
- Item 836.9901 Structural Concrete Crack Repairs by Epoxy Resin Base Adhesive Surface Application - Type 2
- Other bid items listed in the proposal

**METHOD OF MEASUREMENT:** These items will not be measured for payment.

**BASIS OF PAYMENT:** "ITEM CODE 800.9901 through 800.9904 and 800.9906" will be paid for at the contract unit price per "Lump Sum" price for each bridge as listed in the Proposal. The price so-stated will constitute full and complete compensation for all labor, materials, tools, equipment, and all incidentals required to finish the work as described in this Special Provision and elsewhere in the Contract Documents, complete in place and accepted by the Engineer.

Partial payments for this Lump Sum item will be made in accordance with Special Provision Code 109.07.

**CODE 800.9910 POUND HILL ROAD BRIDGE No. 1191**

**DESCRIPTION:** This work consists of all work associated with the replacement of the corrugated metal pipe culvert section with a reinforced concrete pipe as depicted on the plans. Work shall include all culvert work as defined below and is not limited to furnishing, storing, handling, hauling and delivering, erecting, and assembly.

Unless otherwise stated, all work shall conform to the applicable provisions of the Rhode Island Standard Specifications for Road and Bridge Construction, latest edition and all Compilations. Where the RI Standard Specifications and these special provisions do not specify the materials or methods, the Contractor shall perform the work utilizing the best materials and practices in the industry.

The work shall comprise all work pertaining to removal and disposal of portions of the existing culvert elements and replacement with new elements as identified on the construction drawings including: Removal and disposal of corrugated metal pipe. Removal, stockpiling and reconstruction of portions of stone masonry wall. Placement of reinforced concrete pipe (matching existing inverts) and connecting to existing reinforced concrete pipe to remain. Earthwork, various structural excavations and backfill operations and materials required to do the work. Support of excavation. Control of Water and Dewatering. Repointing stone masonry walls.

Except for the excluded bid items listed in the "Excluded Items of Work" section of this special provision, this work consists of all work required to complete the work as shown on the Contract Drawings and in accordance with the Contract Documents.

The Contractor shall make adequate provisions for the protection of public or private property during construction activities.

Removal and disposal of debris from the river within the vicinity of the culvert as required to facilitate Control of Water shall be included in this work.

Excluded Items of Work: Bid items listed in the proposal pages. The work pertaining to the following items of work are excluded from this lump sum item and instead will be measured and be paid for separately under their own appropriate unit bid or lump sum items as listed in the Proposal:

- Item 201.0409 Remove and Dispose Flexible Pavement
- Item 201.0415 Remove and Dispose Guardrail and Post All Types
- Item 302.0100 Gravel Borrow Subbase Course
- Item 901.0101 Guardrail Steel Beam Single Face Earth and Asphalt
- Item 920.0040 Dumped Stone Riprap R-3, R-4, R-5 Standard 8.3.0
- Item 920.0130 Bedding for Riprap FS-1 Standard 8.3.0
- Item 932.0100 Cutting and Matching Asphalt

- Item L01.0102      Loam Borrow 4 Inches Deep
- Item L02.0102      Residential Seeding Type 2
- Bituminous Pavements
- Traffic Markings
- Maintenance and Protection of Traffic
- Other bid items listed in the proposal

## **METHOD OF CONSTRUCTION:**

### Work Schedule Restrictions

No work in the river will be allowed between October 1<sup>st</sup> and June 30<sup>th</sup> of any year. Once work in the river has begun (installation of dewatering and control of water measures), it shall progress continuously on a daily basis until all work in the river is completed, and all materials and equipment have been removed. The Contractor shall be limited to closing the road to all traffic once, for a maximum of five continuous calendar days. Work during the road closure shall be limited to 7:00am to 7:00pm during all days of the closure.

### Culvert Pipe Replacement

The Contractor is responsible for the means and methods to remove the existing corrugated metal pipe portion of the culvert and replace it with a 5' inner diameter reinforced concrete pipe, including the mating and sealing of the interface between the existing and new reinforced concrete pipe sections to prevent water and sediment infiltration.

### Stone Masonry Wall Removal and Reconstruction

The Contractor is responsible for the means and methods to remove, stockpile, and reconstruct the north stone masonry wall. The existing north stone masonry wall shall be partially removed to the extent necessary (as determined by the Contractor's means and methods) to remove and replace the culvert pipe. The removed stones shall be cataloged and stockpiled for later reconstruction. The wall shall be reconstructed to match the previously existing geometry and appearance, including the mortar color and style. The Contractor shall allow the wall mortar to cure for a minimum of 48 hours prior to backfilling and compacting against the wall.

### Control of Water:

The Contractor is responsible for the means and methods for the Control of Water. A suggested method to control the water is to install sandbag dams upstream and downstream of the culvert with a pump and flume tube crossing the adjacent roadway. The Contractor has the option to utilize other approved means however driving sheeting

in the waterway or utilizing other invasive methods to control the water will not be permitted. The control of water operations, materials, equipment shall be limited to within the limits of disturbance shown on the plans. The control of water equipment may be installed prior to the closure of the road.

Streamflow shall be maintained at all times. The proposed Control of Water method shall not cause erosion or sediment issues within the river channel, river banks or any adjacent riverbank wetland. If in the opinion of the Engineer, the proposed Control of Water method is causing erosion or sediment issues, the Contractor shall cease his operations until such time that an alternate Control of Water method has been proposed by the Contractor and has been approved by the Engineer. No resulting delays due to "cease of operations" will result in claims for additional payment by the Contractor to the State, or an extension of the project completion date.

The streamflow rates vary. The flow rate has been observed as near-stagnant between July 1 and September 30, excluding during and immediately following storm events. Below are estimates for flow rates during and immediately following various storm events. The Contractor shall provide and maintain Control of Water measures to accommodate these flow rates, and/or have the ability to cease operations and remove the Control of Water measures for any storm events that will exceed the capacity of the Contractor's Control of Water measures. The costs associated with the removal and re-installation of the Control of Water means and methods shall be considered incidental and shall not be basis for any additional payment and/or any project time extensions.

**Bridge No. 1191 Peak Flow Rate Summary**

Storm Event	2-Inch	1-Year	2-Year	10-Year
24-HR Rainfall Total	2.0"	2.7"	3.3"	4.9"
Peak Flow Rates Reaching Culvert (CFS)	29.96	100.33	189.81	518.99

The preceding values are estimates of the peak runoff flow rates that are generated by the tributary watershed and reaching the culvert during each of the listed storm events, and were derived using TR-55 methodology.

The following tributary watershed parameters were estimated/assumed:

Total Watershed Area: 2,380 AC

Watershed Composite Curve Number (CN): 64

Watershed Time to Concentration (Tc): 293 minutes

Rainfall Distribution Curve: Type III 24-Hour

Watershed area and predominant ground cover were estimated using a combination of 2011 LIDAR topographic contours and 2011 aerial orthophotographs.

**Dewatering:**

For the removal and replacement of the culvert pipe, the Contractor will be required to dewater in order to maintain a dry work area. The Contractor will be required to provide sufficient pumps to maintain a continuously dry work area until such time that the reinforced concrete pipe has been placed and backfilled, and the stone masonry wall has been reconstructed.

The Contractor shall provide means to ensure that effluent water from the dewatering process is at least as free and clear of sediment (turbidity) as the receiving water. Sediment control devices, as approved by the Engineer, shall be utilized and maintained at all times during dewatering operations. Pumps utilized for dewatering shall be screened with a maximum ¼ inch mesh opening. The dewatering operations, materials, equipment shall be limited to within the limits of disturbance shown on the plans.

**METHOD OF MEASUREMENT:** This item will not be measured for payment.

**BASIS OF PAYMENT:** "ITEM CODE 800.9910" will be paid for at the contract unit price per "Lump Sum" price as listed in the Proposal. The price so-stated will constitute full and complete compensation for all labor, materials, tools, equipment, and all incidentals required to finish the work as described in this Special Provision and elsewhere in the Contract Documents, complete in place and accepted by the Engineer.

Partial payments for this Lump Sum item will be made in accordance with Special Provision Code 109.07.

**METHOD OF MEASUREMENT:**

“ITEM CODE 817.9901” will be measured by the number of linear feet actually repaired in accordance with the Plans and/or as directed by the Engineer.

“ITEM CODE 817.9902 through 817.9905” will be measured by the number of square feet actually repaired in accordance with the Plans and/or as directed by the Engineer.

**BASIS OF PAYMENT:**

“ITEM CODE 817.9901” will be paid for at the respective contract unit price per linear foot as listed in the Proposal. The prices so-stated shall constitute full and complete compensation for all labor, materials and equipment, and incidentals required to finish the work, complete in place and accepted by the Engineer.

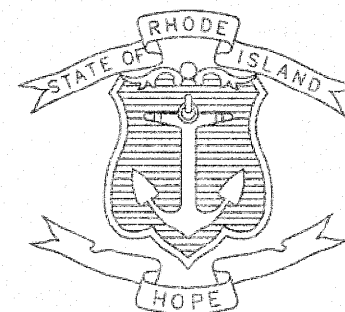
“ITEM CODE 817.9901 through 817.9905” will be paid for at the respective contract unit price per square foot as listed in the Proposal. The prices so-stated shall constitute full and complete compensation for all labor, materials and equipment, and incidentals required to finish the work, complete in place and accepted by the Engineer.

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI	BHO-0146(026)	2018	1	69

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43	LONGITUDINAL AND TRANSVERSE SECTION
44	CONCRETE BEAM REPAIR LOCATION PLAN
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47	JOINT REPAIR DETAILS SHEET 2
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53	MISCELLANEOUS DETAILS
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STATE OF RHODE ISLAND



DEPARTMENT OF TRANSPORTATION

PLANS, PROFILES AND SECTIONS OF PROPOSED

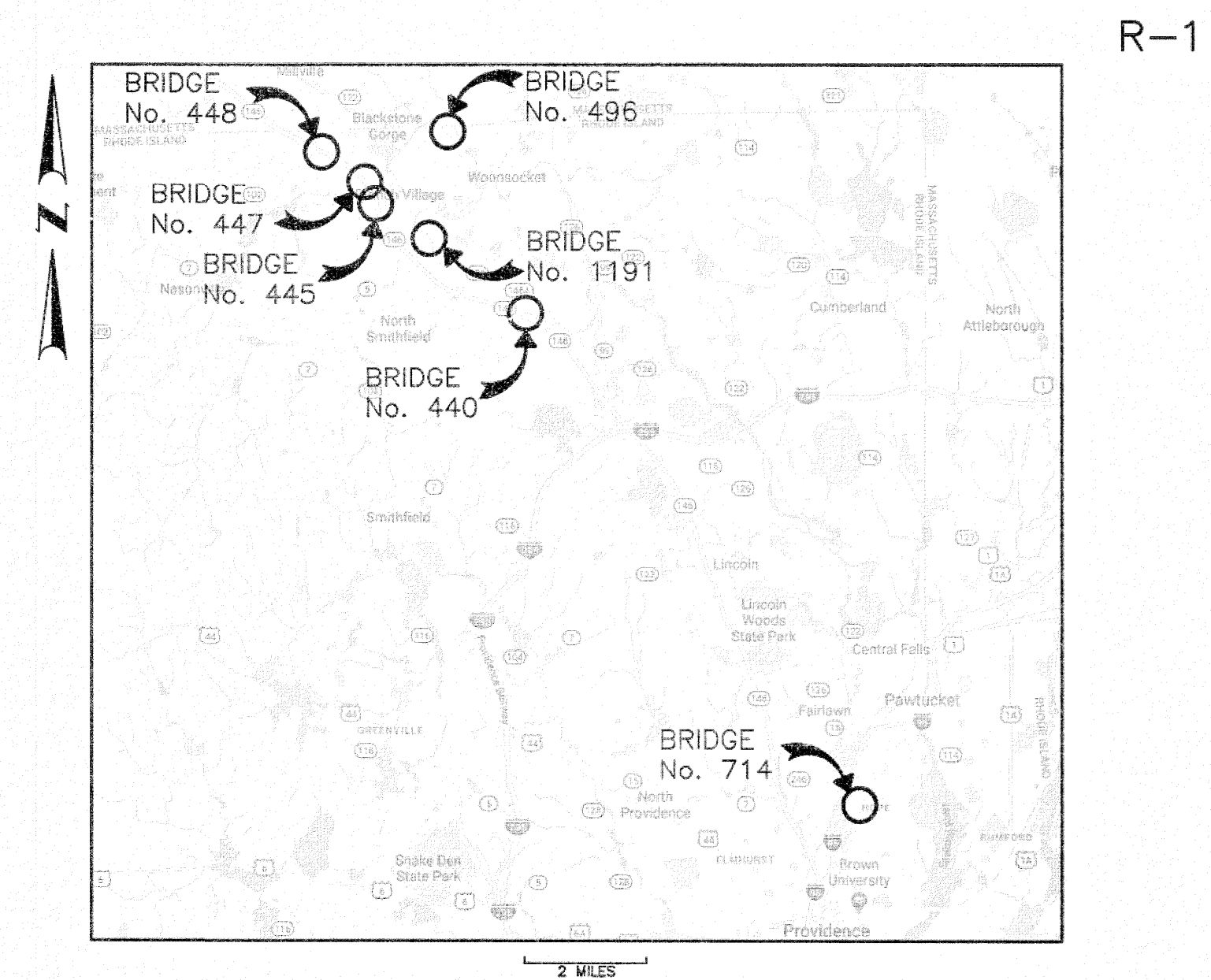
BRIDGE GROUP 13A - RT 146 C-1

LENGTH = 14.0 MILES

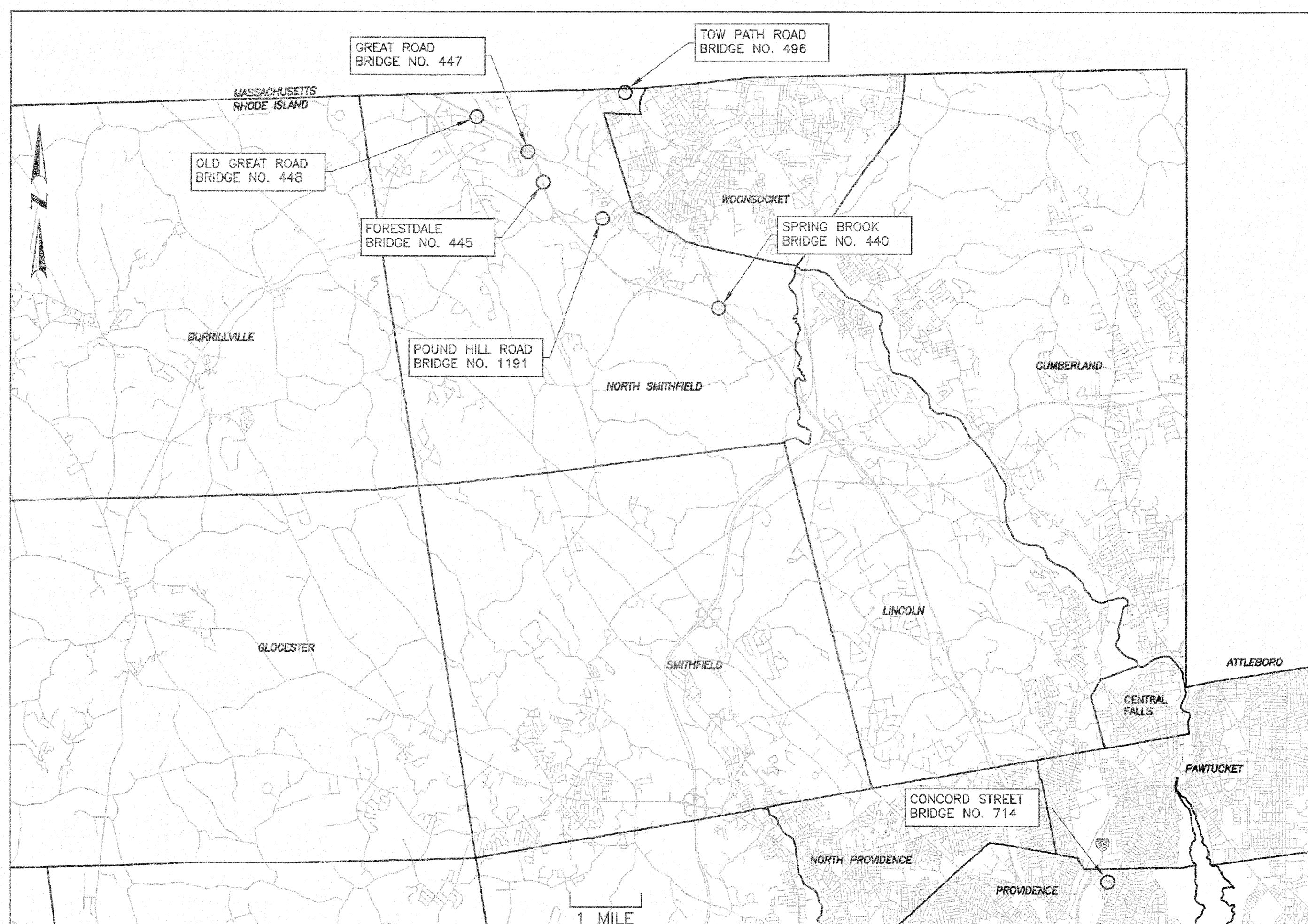
TOWN OF NORTH SMITHFIELD, CITY OF PROVIDENCE

COUNTY OF PROVIDENCE

R.I. CONTRACT NO. 2018-CB-083 F.A. PROJECT NO's. BHO-0146(026)

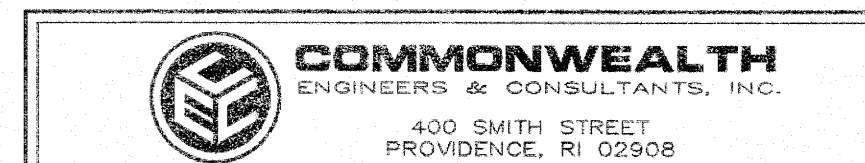


LOCUS MAP  
NOT TO SCALE

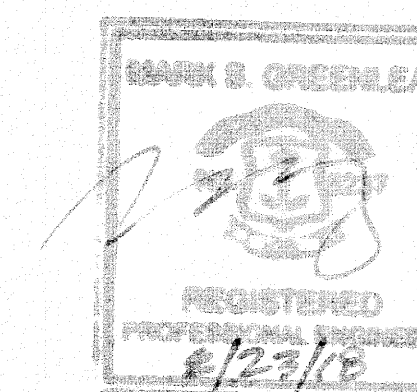


R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS  
SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED 2013, WITH ALL REVISIONS, AND THE STATE AND FEDERAL SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS. STANDARD DETAILS FOR THIS PROJECT ARE R.I. STANDARD DETAILS, 1998 EDITION, WITH ALL REVISIONS.

ADDENDUM No. 2



Contract Number 2018-CB-083  
Volume Number -  
Number of Sheet 1  
Total Sheets 69



R.I. DEPARTMENT OF TRANSPORTATION	
APPROVED	
<i>David W. Fish</i>	8-28-18
ADMINISTRATOR, PROJECT MANAGEMENT	DATE
APPROVED	
<i>Robert Pancher</i>	9-27-18
CHIEF ENGINEER OF INFRASTRUCTURE	DATE
APPROVED	
<i>[Signature]</i>	8/28/18
DIRECTOR	DATE
US DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	
DIVISION ADMINISTRATOR	DATE

**JOB SPECIFIC LEGEND**

- 6.4.1 ROUND AREA FRAME AND GRATE
- 34.1.0M MODIFIED ROADSIDE GUARDRAIL INSTALLATION (SEE DETAIL)
- 34.3.5M GUARDRAIL CONNECTION TO EXITING END POST APPROACH SECTION (MODIFY HEIGHT OF GUARDRAIL FROM 27" TO 31")
- 34.3.6M GUARDRAIL CONNECTION TO EXITING END POST TRAILING SECTION (MODIFY HEIGHT OF GUARDRAIL FROM 27" TO 31")
- BRS CUT BITUMINOUS RUMBLE STRIP (SEE DETAIL)
- CCT CABLE GUIDE RAILING APPROACH OR TERMINAL SECTION W/ CONCRETE ANCHORAGE EARTH AND ASPHALT (901.0202)
- CFS COMPOST FILTER SOCK 12 INCH DIAMETER
- CPRS **FILL EXISTING RUMBLE STRIP WITH TEMPORARY PATCHING MATERIAL (410.1000)**
- CGR CABLE GUIDE RAILING GALVANIZED EARTH AND ASPHALT (901.0200)
- DCGR REMOVE AND DISPOSE CABLE GUIDE RAILING
- DOT DOTTED PAVEMENT MARKING (SEE DETAIL) 3' LINE/9' SPACE
- DSH DASHED PAVEMENT MARKING (SEE DETAIL) 10' LINE/30' SPACE
- GCA STEEL THRIE BEAM BRIDGE CONNECTION (901.0185)
- GCB W-BEAM GUARDRAIL CONNECTION TO EXISTING BRIDGE END POST
- GR-A GUARDRAIL END TREATMENT (TEST LEVEL 3)
- GR-B GUARDRAIL END TREATMENT (TEST LEVEL 2)
- M PLACEMENT OF MILLINGS BENEATH GUARDRAIL
- P 1.5" FRICTION COURSE REMOVED BY MICRO MILLING  
1.5" FRICTION COURSE
- P-1 2" MODIFIED CLASS 12.5 HMA SURFACE COURSE  
10" CLASS XX PORTLAND CEMENT CONCRETE CURB LOCK
- P-2 2" MODIFIED CLASS 12.5 HMA SURFACE COURSE  
7" CLASS 19 HMA BASE COURSE (TWO LIFTS)  
12" GRAVEL BORROW SUBBASE COURSE
- P-3 3" MODIFIED CLASS 12.5 HMA SURFACE COURSE  
12" GRAVEL BORROW SUBBASE COURSE
- P-4 2" SURFACE COURSE REMOVED BY MICRO MILLING  
2" MODIFIED CLASS 12.5 HMA SURFACE COURSE
- RE-69 THRIE BEAM TO W-BEAM TRANSITION
- RRP DUMPED STONE RIP-RAP AT FLARED END SECTIONS, PAVED WATERWAYS, DITCHES AND HEADWALLS. MODIFIED NSA NO. R-5 (920.0040) 18" DEEP WITH 12" MODIFIED NSA NO. FS-2 (920.0135) BEDDING FOR RIP-RAP PLACED ON FILTER FABRIC FOR RIP-RAP (920.0200).
- RRPM RECESSED REFLECTORIZED PAVEMENT MARKER ONE-WAY WHITE (80' SPACING FOR LANE LINES) & (20' SPACING ALONG 12" WHITE GORE LINES WITH 2" OFFSET)
- S-1 CUTTING AND MATCHING ASPHALT
- S-3 FULL DEPTH SAWCUT OF BITUMINOUS PAVEMENT
- S-5 FULL DEPTH SAWCUT OF PORTLAND CEMENT CONCRETE SIDEWALK/DRIVEWAY
- SCCB SEDIMENTATION CONTROL FOR CATCH BASINS
- T4DY 4" DOUBLE YELLOW FAST DRYING WATERBORNE PAVEMENT MARKING PAINT
- T6W 6" WHITE FAST DRYING WATERBORNE PAVEMENT MARKING PAINT
- T6WS 6" WHITE FAST DRYING WATERBORNE SKIP PAVEMENT MARKING PAINT
- T6Y 6" YELLOW FAST DRYING WATERBORNE PAVEMENT MARKING PAINT
- T12W 12" WHITE FAST DRYING WATERBORNE PAVEMENT MARKING PAINT
- TAB ANCHORED BARRIER FOR TEMPORARY TRAFFIC CONTROL

**JOB SPECIFIC GENERAL NOTES:**

1. ALL GRASSED AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REESTABLISHED WITH PLANTABLE SOIL AND TYPE 1 SEED. IF AREAS ARE BEYOND THE WORK LIMITS THEN THE COST SHALL BE BORNE BY THE CONTRACTOR.
2. THE BASELINES SHOWN ON THESE PLANS ARE FOR DISTRIBUTION OF QUANTITY REFERENCE ONLY. THE BASELINES ARE NOT INTENDED TO BE USED FOR CONSTRUCTION LAYOUT.
3. CONTRACTOR SHALL LOCATE AND RECORD ALL EXISTING STRIPING PRIOR TO PAVEMENT REMOVAL. A COPY OF THE STRIPING LOCATION RECORDS SHALL BE PROVIDED TO THE ENGINEER. NEW PAVEMENT MARKINGS SHALL BE PLACED AS SHOWN ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. ASPHALT EMULSION TACK COAT SHALL BE PLACED PRIOR TO PAVEMENT PLACEMENT. IT SHALL ALSO BE APPLIED TO VERTICAL PAVEMENT FACES BETWEEN ADJOINING PAVEMENT SECTIONS. ALL APPLICATIONS ON BOTH HORIZONTAL AND VERTICAL SURFACES SHALL BE PAID FOR UNDER THE CONTRACT UNIT BID PRICE FOR CODE 403.0300 "ASPHALT EMULSION TACK COAT".
5. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, ALL DISTURBED AREAS INCLUDING THE CONTRACTOR'S STOCKPILE AREAS WITHIN THE RIGHT-OF-WAY SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE STATE.
6. ANY SUBCONTRACTORS EMPLOYED BY THE CONTRACTORS OR RIDOT ON THIS PROJECT SHALL WORK WITHIN THE SAME PROTECTED WORK AREAS AS THE CONTRACTOR. NO SEPARATE LANE CLOSURES WILL BE PAID FOR.
7. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE ALLOWED TO STOCKPILE REMOVED PAVEMENT MATERIALS WITHIN THE PROJECT LIMITS.
8. THE CONTRACTOR SHALL FULLY RECOGNIZE THAT HAND WORK MAY BE NECESSARY TO REMOVE EXISTING PAVEMENT AROUND UTILITY STRUCTURES OR ADJACENT TO CURB. THE COST OF ANY HANDWORK WILL NOT BE PAID FOR SEPARATELY AND SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS ITEMS OF WORK.

**JOB SPECIFIC DRAINAGE AND EROSION CONTROL NOTES:**

1. ALL EXISTING DRAINAGE STRUCTURES TO REMAIN SHALL BE CLEANED AND INSPECTED. ANY NECESSARY REPAIRS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
2. FOR ALL PROJECTS WITH AT LEAST ONE(1) ACRE OF SOIL DISTURBANCE, R.I.D.O.T. IS REQUIRED TO DEVELOP AND ENFORCE A SITE SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ORDER TO REMAIN IN COMPLIANCE WITH THE RIPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE PROVISIONS, CONDITIONS, AND STIPULATIONS OF THE GENERAL PERMIT AND THE SITE SPECIFIC SWPPP FOR THIS PROJECT. COPIES OF THESE DOCUMENTS ARE INCLUDED IN THE PROJECT SUPPLEMENTAL DVD. ALL COSTS ASSOCIATED WITH ADHERENCE TO THE SWPPP SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEM(S).
3. NO EQUIPMENT (SCAFFOLDING, ETC.) SHALL BE PLACED IN ANY WETLAND OR WATERWAY DURING CONSTRUCTION.
4. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING PERIODS OF RAINFALL AT NO ADDITIONAL COST TO THE STATE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT AT THE END OF FINAL PAVING OPERATIONS, FLOW TO EXISTING DRAINAGE STRUCTURES HAS BEEN RE-ESTABLISHED AND THAT NO ISOLATED DEPRESSION REMAIN. THERE SHALL BE NO SEPARATE PAVEMENT FOR THIS PROVISION. IT SHALL BE CONSIDERED INCIDENTAL TO PAVING AND MICROMILLING OPERATIONS.
6. THE COST TO ADJUST FRAME AND GRATE SHALL INCLUDE CONCRETE COLLAR
7. THE CONTRACTOR SHALL NOT WASHOUT OR CLEAN ANY EQUIPMENT WITHIN 50 FEET OF ANY STORM DRAINS.

**JOB SPECIFIC PAVEMENT MARKINGS NOTES:**

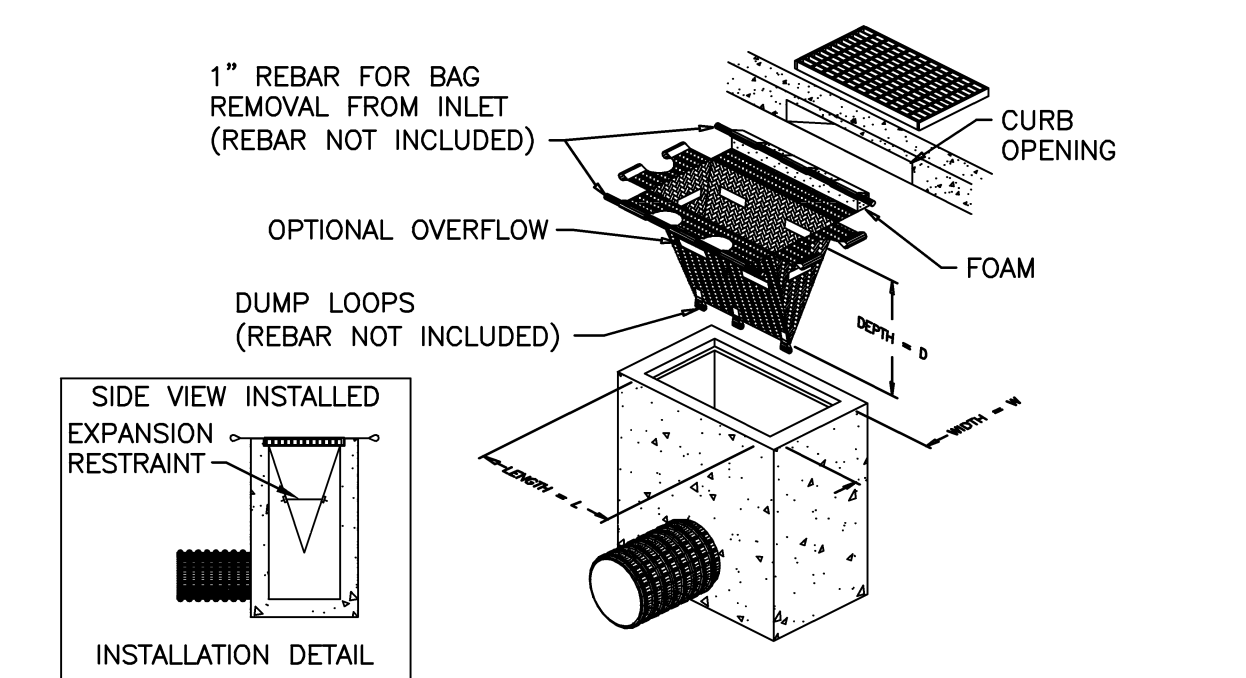
1. ALL PAVEMENT MARKINGS ARE TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. TRAVEL LANE SKIP STRIPING LINES SHALL CONSIST OF 10' LINES WITH 30' SPACE.
3. AT THE COMPLETION OF EACH DAY'S MICRO MILLING OR REPAVING OPERATION, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TEMPORARY WATERBORNE PAVEMENT MARKINGS (T20.0006, T20.0012 AND T20.0106) IN ALL AREAS OPEN TO VEHICULAR TRAFFIC.
4. EPOXY RESIN PAVEMENT MARKINGS ((T20.2006, T20.2014 AND T20.2016) SHALL BE PLACED ON THE FINAL SURFACE COURSE LAYER NO SOONER THAN 2 WEEKS AND NO LATER THAN 4 WEEKS FROM THE COMPLETION OF EACH DAY'S PAVING OPERATION.

**JOB SPECIFIC PAVEMENT MARKING LEGEND**

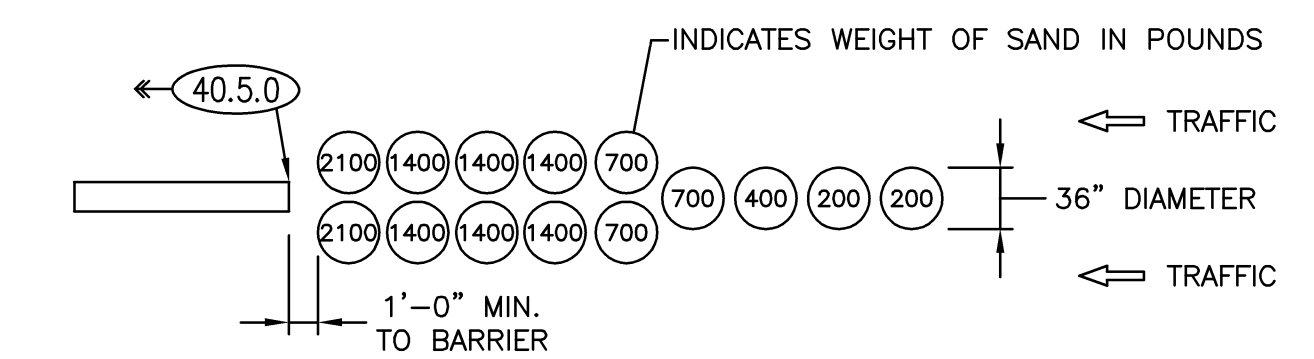
- 6WS 6" EPOXY RESIN SKIP PAVEMENT MARKINGS - WHITE (SEE PLAN FOR LINE LENGTH AND SPACING)

**MAINTENANCE AND PROTECTION OF TRAFFIC LEGEND**

- 40.5.0 UNANCHORED PRECAST MEDIAN BARRIER FOR TEMPORARY TRAFFIC CONTROL STD. 40.5.0
- 26.1.0 FLUORESCENT TRAFFIC CONES STD. 26.1.0
- 26.2.0 POLYETHYLENE DRUM BARRICADE WITH MARKINGS STD. 26.2.0 THE MAXIMUM SPACING IS SHOWN ON THE PLANS. A CLOSER SPACING THROUGH THE WORK SPACE MAY BE NEEDED AS DIRECTED BY THE ENGINEER.
- 26.3.0 PVC PLASTIC PIPE BARRICADE STD. 26.3.0
- AP ADVANCE WARNING ARROW PANEL
- VMS PORTABLE CHANGEABLE MESSAGE SIGN
- SABM SHOCK ABSORBING BARRIER MODULES
- FLAGGER
- WORK SPACE
- TRUCK MOUNTED ATTENUATOR WITH FLASHING ARROW BOARD
- POLICE VEHICLE WITH FLASHING LIGHT BAR



**SCCB SEDIMENTATION CONTROL - CATCH BASIN**  
NOT TO SCALE



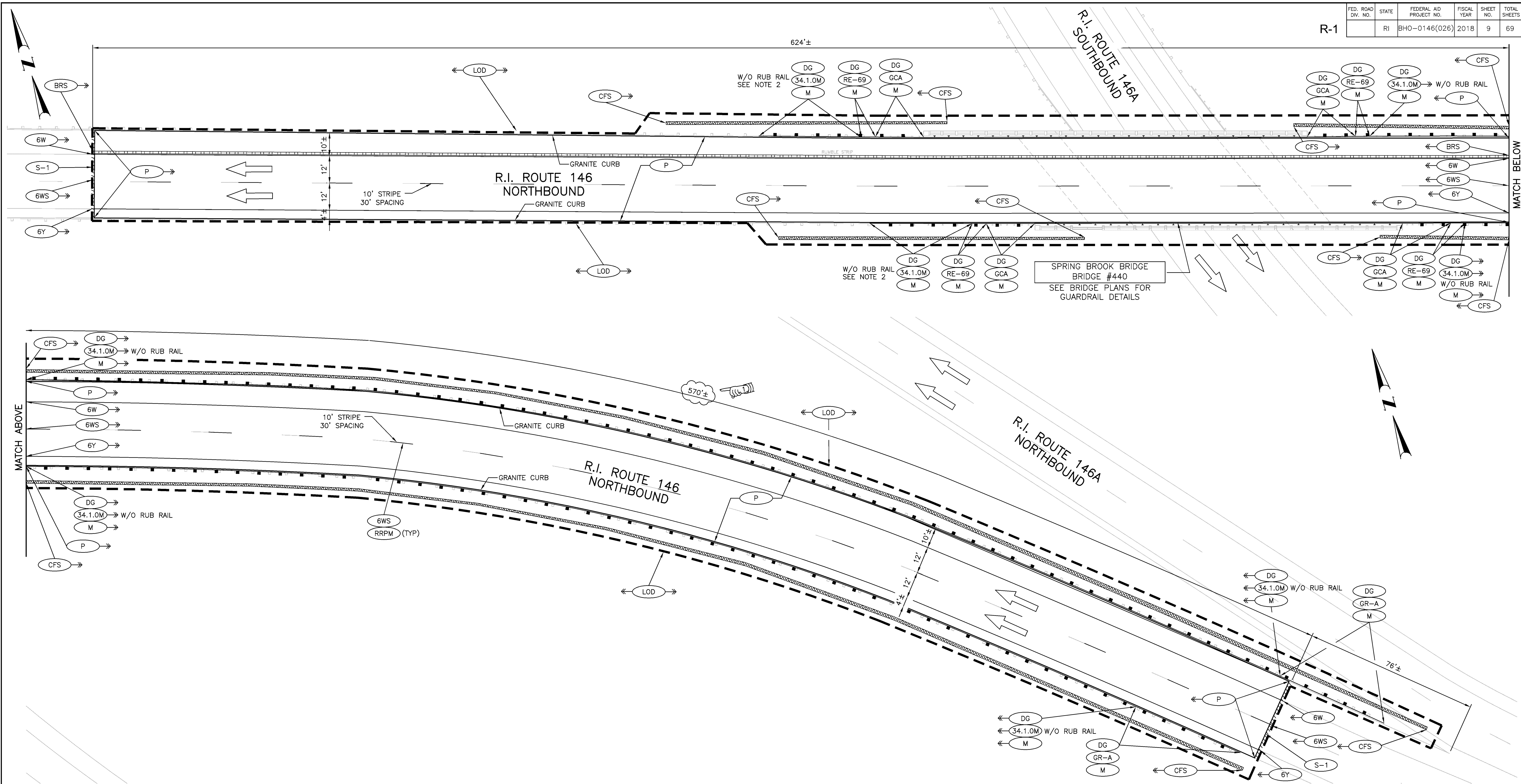
**SABM**  
**TYPICAL DETAIL**  
**SHOCK ABSORBING BARRIER MODULES**  
**55 MPH DESIGN VELOCITY**  
NOT TO SCALE  
NOTE: THE ARRANGEMENT OF THE BARRELS IS LOCATION SPECIFIC.

REVISIONS		
NO.	DATE	BY
1	9/25/18	NS

RHODE ISLAND	
DEPARTMENT OF TRANSPORTATION	
BRIDGE GROUP 13A-RT 146 C-1	
No. 440, 445, 447, 448, 496, 714, 1191	
N. SMITHFIELD, PROVIDENCE, RHODE ISLAND	
JOB SPECIFIC PLAN SYMBOLS, LEGEND AND NOTES	
CHECKED BY _____	DATE _____ SCALE NO SCALE







- NOTES:
- PLAN SCALE THESE PLANS WERE PREPARED SOLELY AS A GUIDE FOR THE CONTRACTOR IN DEFINING LIMITS OF WORK AND GENERAL LOCATION OF THE PROPOSED IMPROVEMENTS. THEY WERE COMPILED FROM EXISTING RIDOT CONSTRUCTION DRAWINGS. THEY ARE NOT TRUE TO SCALE. ACCORDINGLY, ALL DIMENSIONS AND DISTANCES SHOULD BE VERIFIED AND/OR ADJUSTED IN THE FIELD, AS REQUIRED, TO PROPERLY ACCOMPLISH THE INTENT OF THE DESIGN.
  - TRANSITION GUARDRAIL HEIGHT FROM EXISTING (27"±) TO 31" AT A RATE OF 10.57692 FT/1.0" VERTICAL DIFFERENCE.



ADDENDUM No. 2

REVISIONS		
NO.	DATE	BY
1	9/25/18	NS

RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

**BRIDGE GROUP 13A-RT 146 C-1**

No. 440, 445, 447, 448, 496, 714, 1191

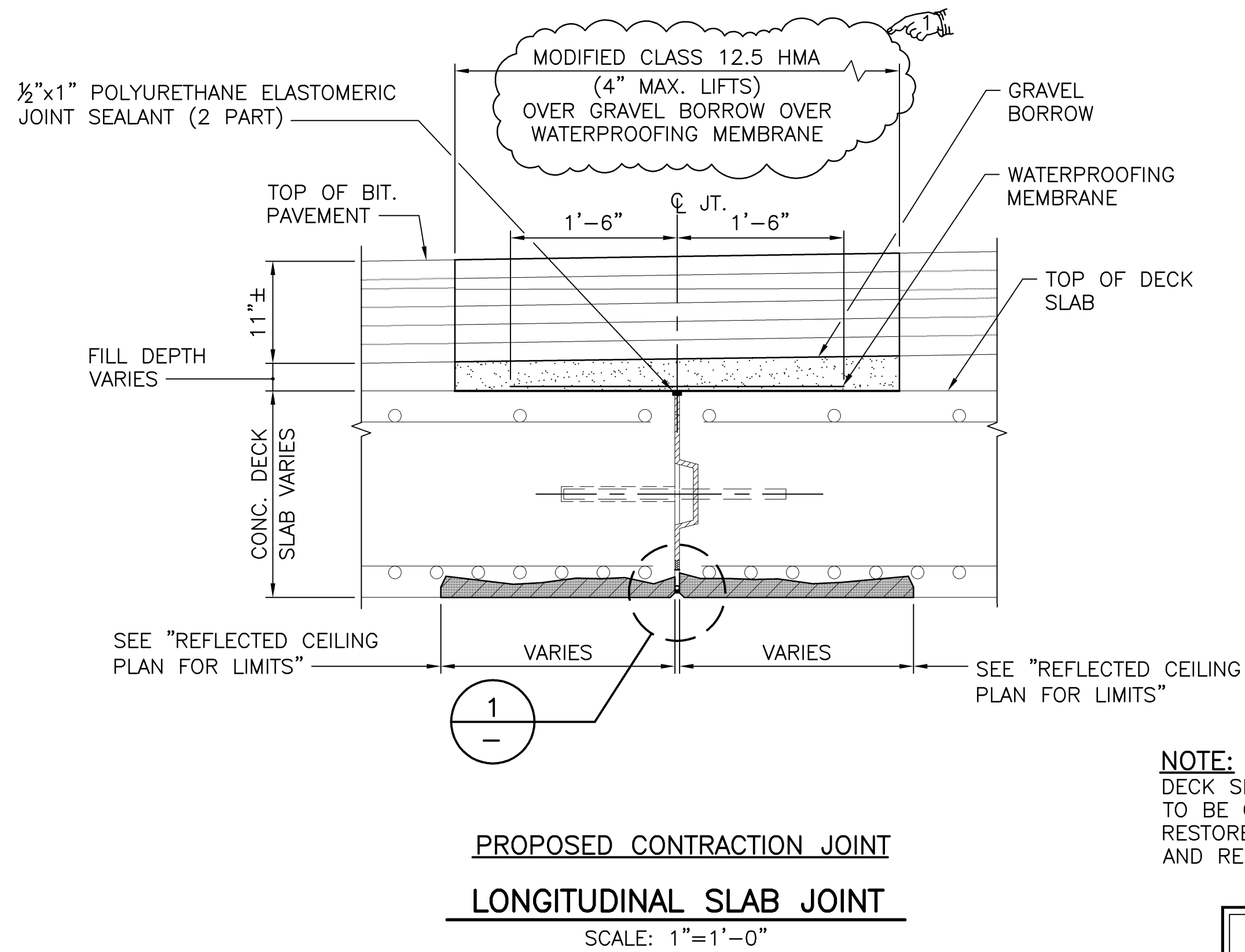
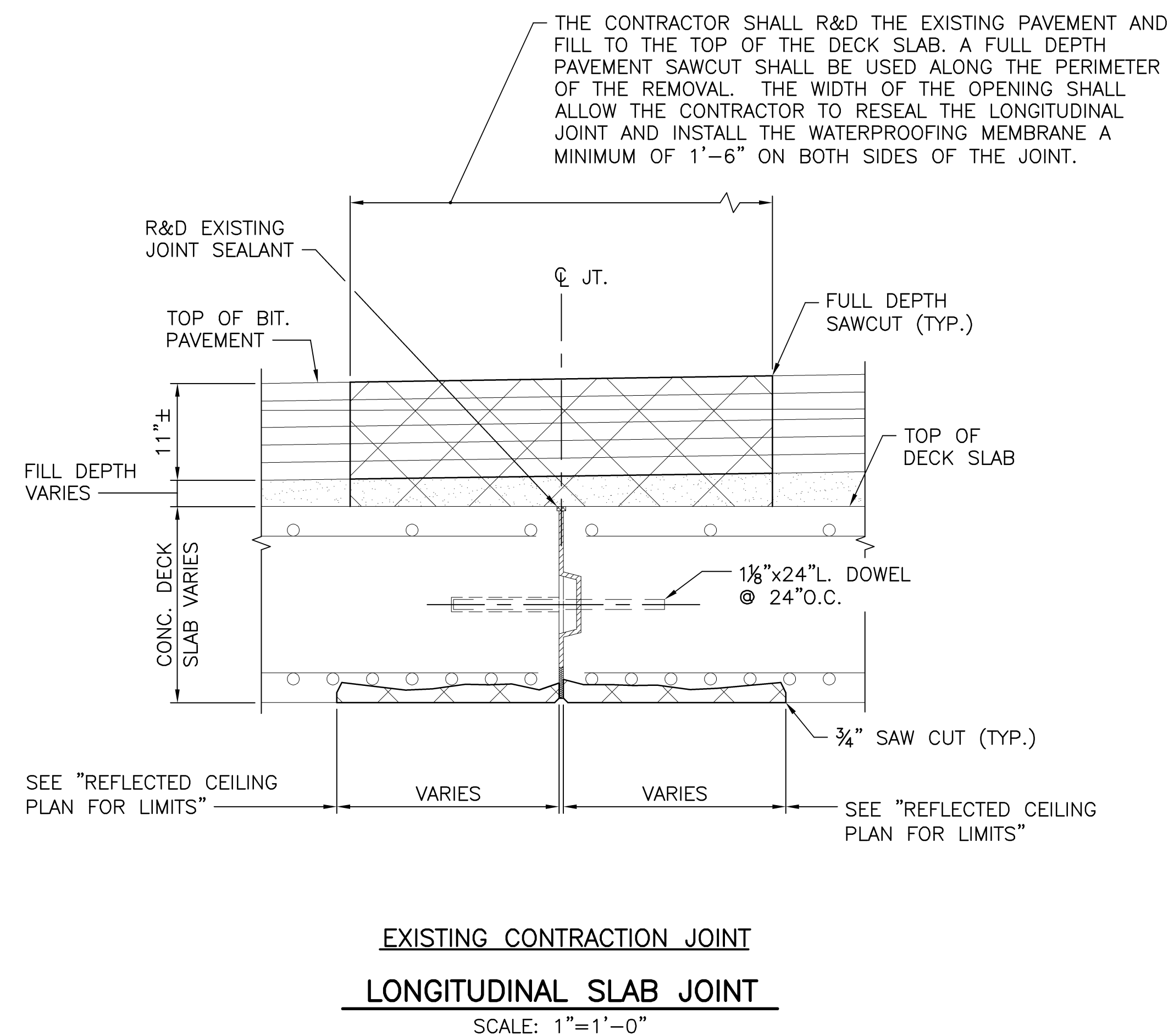
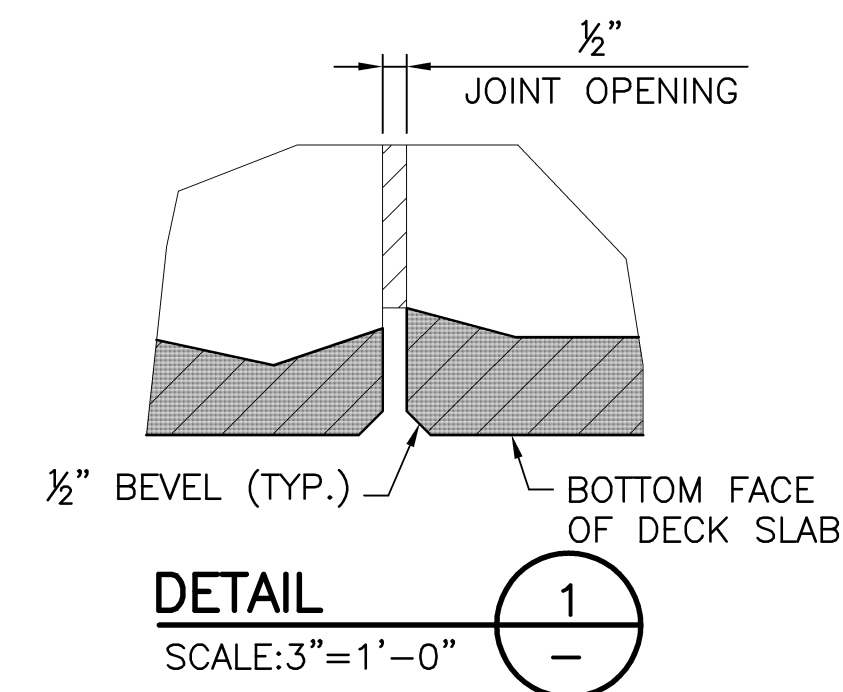
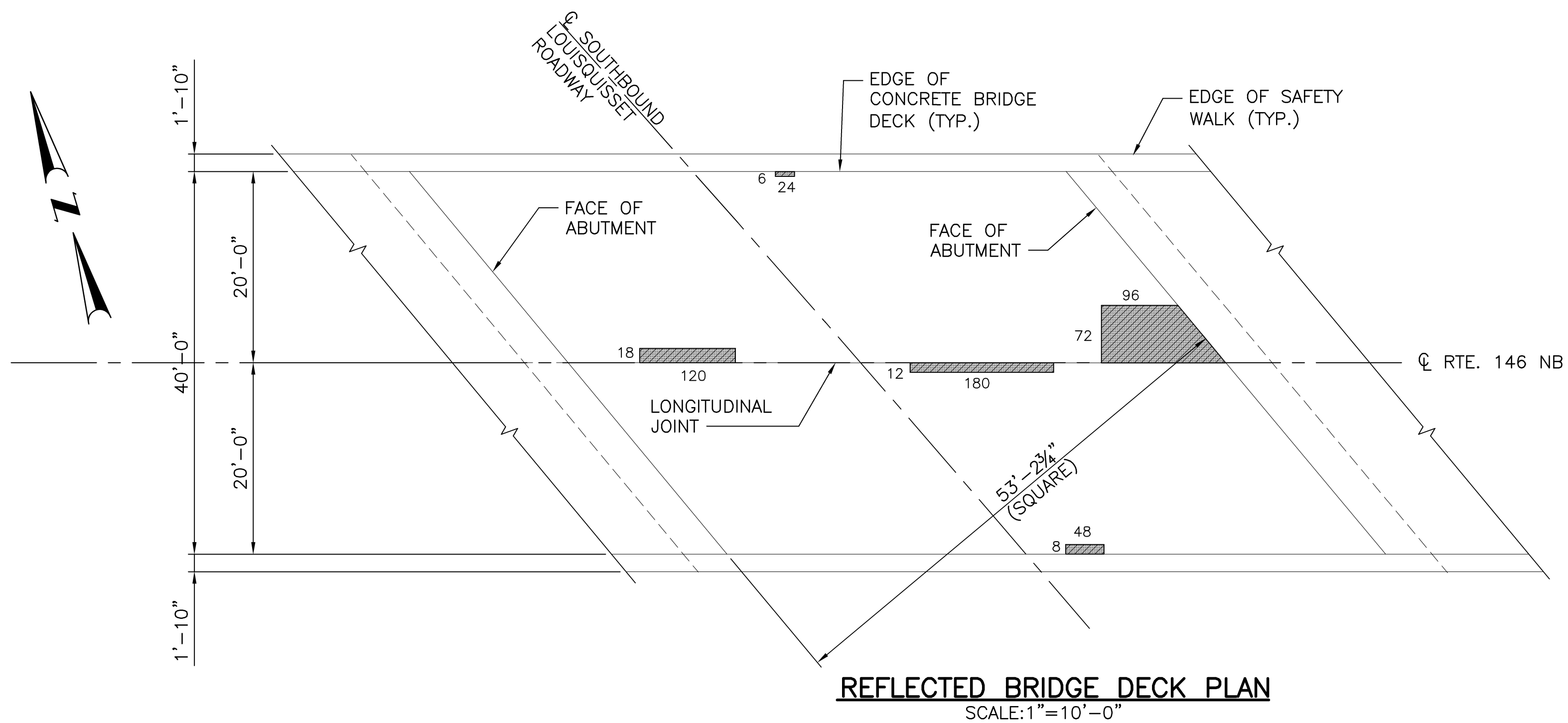
N. SMITHFIELD, PROVIDENCE, RHODE ISLAND

SPRING BROOK BRIDGE No. 440

**GENERAL PLAN NO. 1**

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_ SCALE 1"=20'

P:\18001\0944.48 Route 146 Bridge\1 Drawing\Transportation\Comm\Drawings\Bridge\440\0135\_V1\_009\_GENERAL\01\_ADD01.dwg, 8/26/2018 11:18:45 AM, RDM



**NOTES:**

1. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE MAINTENANCE & PROTECTION OF TRAFFIC PLANS AND RESTRICTIONS NOTED IN THE CONTRACT TMP AND CS PAGES.
2. PAVEMENT MAKE-UP, GRAVEL BORROW AND WATERPROOFING MEMBRANE SHALL BE RESTORED PRIOR TO MICRO MILLING AND REPAVING OF ROADWAY SURFACE.

**LEGEND**

- DENOTES AREAS TO BE REMOVED & DISPOSED
- DENOTES AREAS OF REPAIRS TO STRUCTURE CONCRETE MASONRY (BY PATCHING METHODS)

REVISIONS		
NO.	DATE	BY
1	9/25/18	JRO

RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

**BRIDGE GROUP 13A-RT 146 C-1**

No. 440, 445, 447, 448, 496, 714, 1191

N. SMITHFIELD, PROVIDENCE, RHODE ISLAND

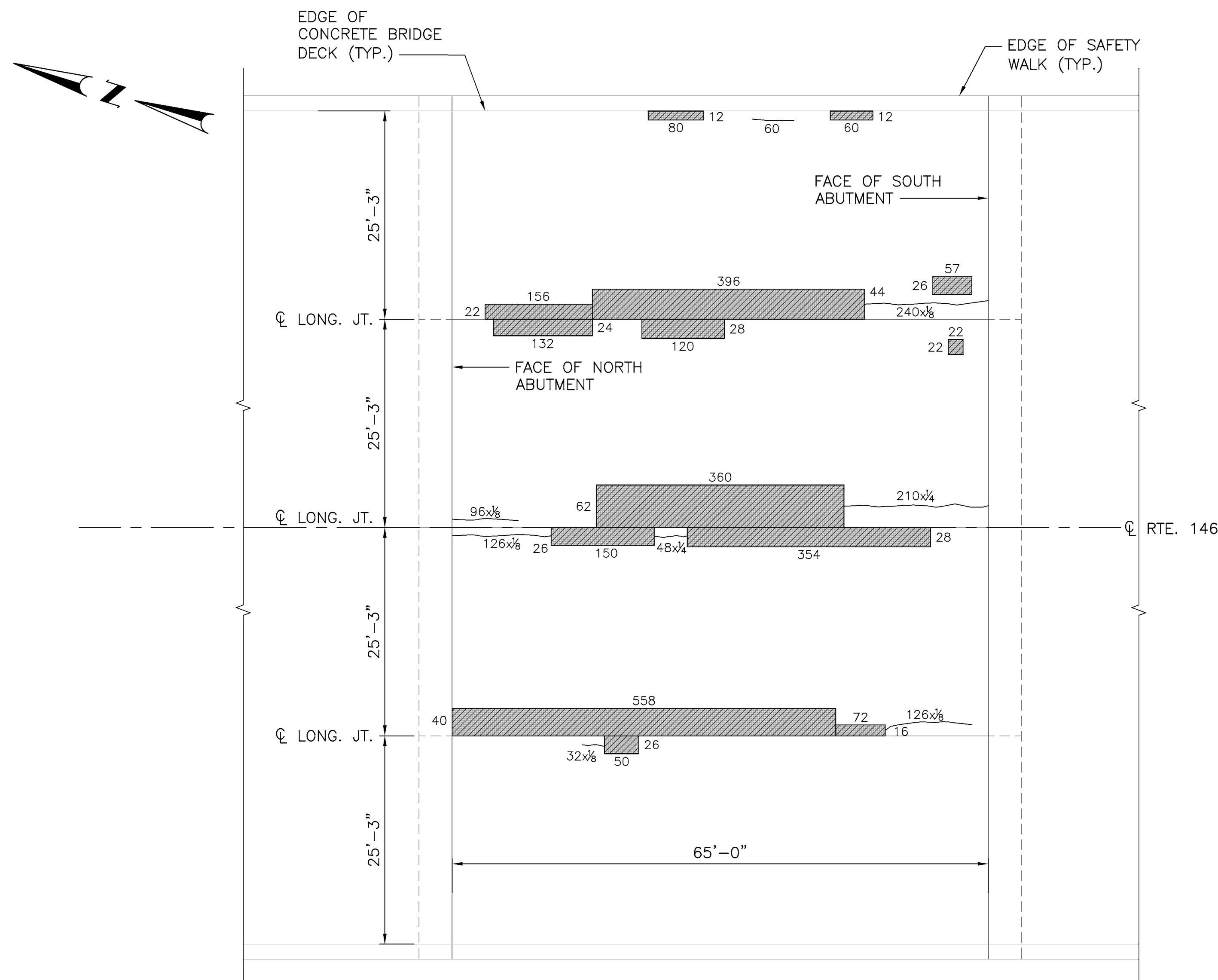
SPRING BROOK BRIDGE No. 440

**CONCRETE REPAIR  
DETAILS SHEET 2**

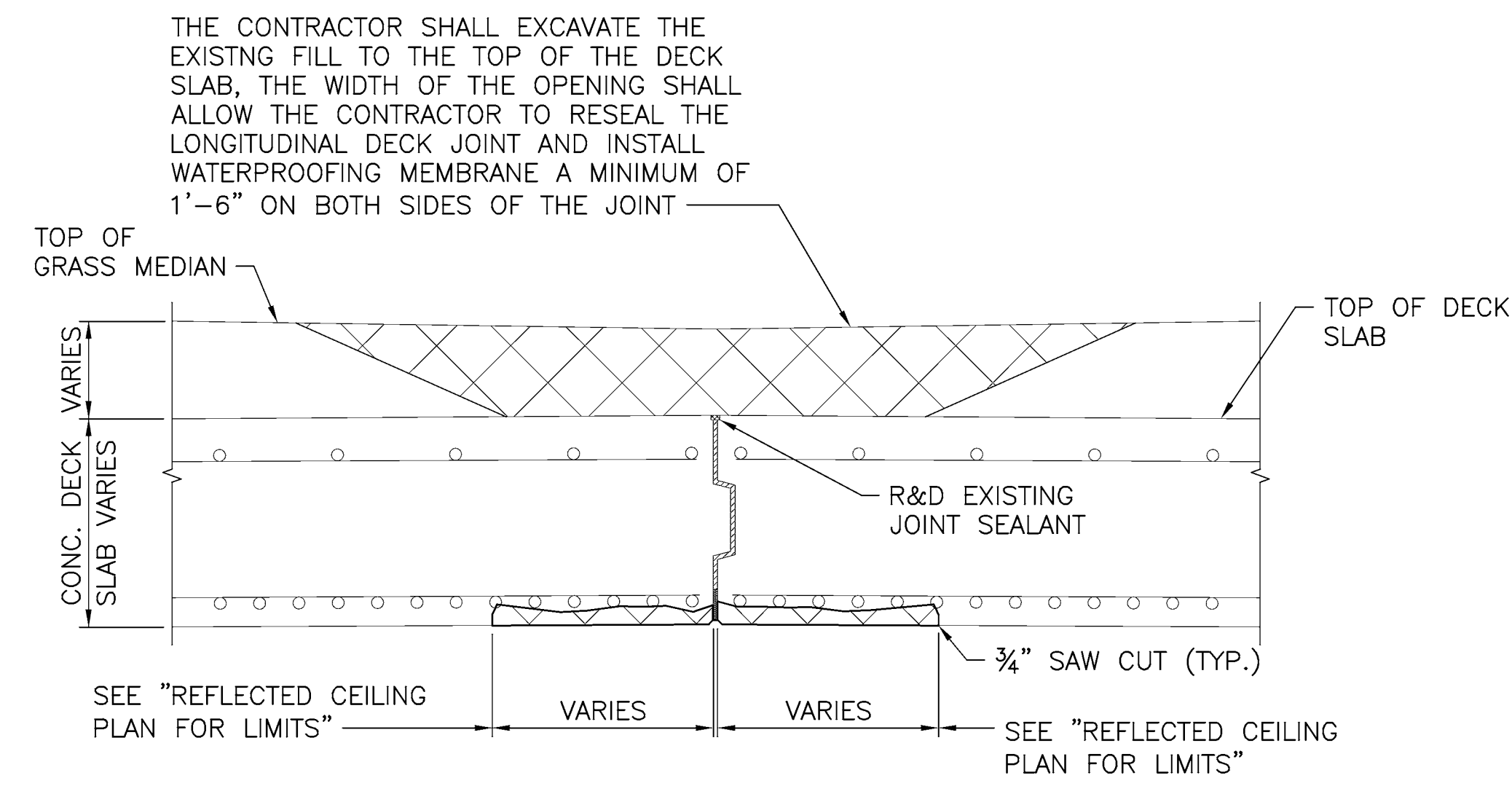
CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_ SCALE AS SHOWN



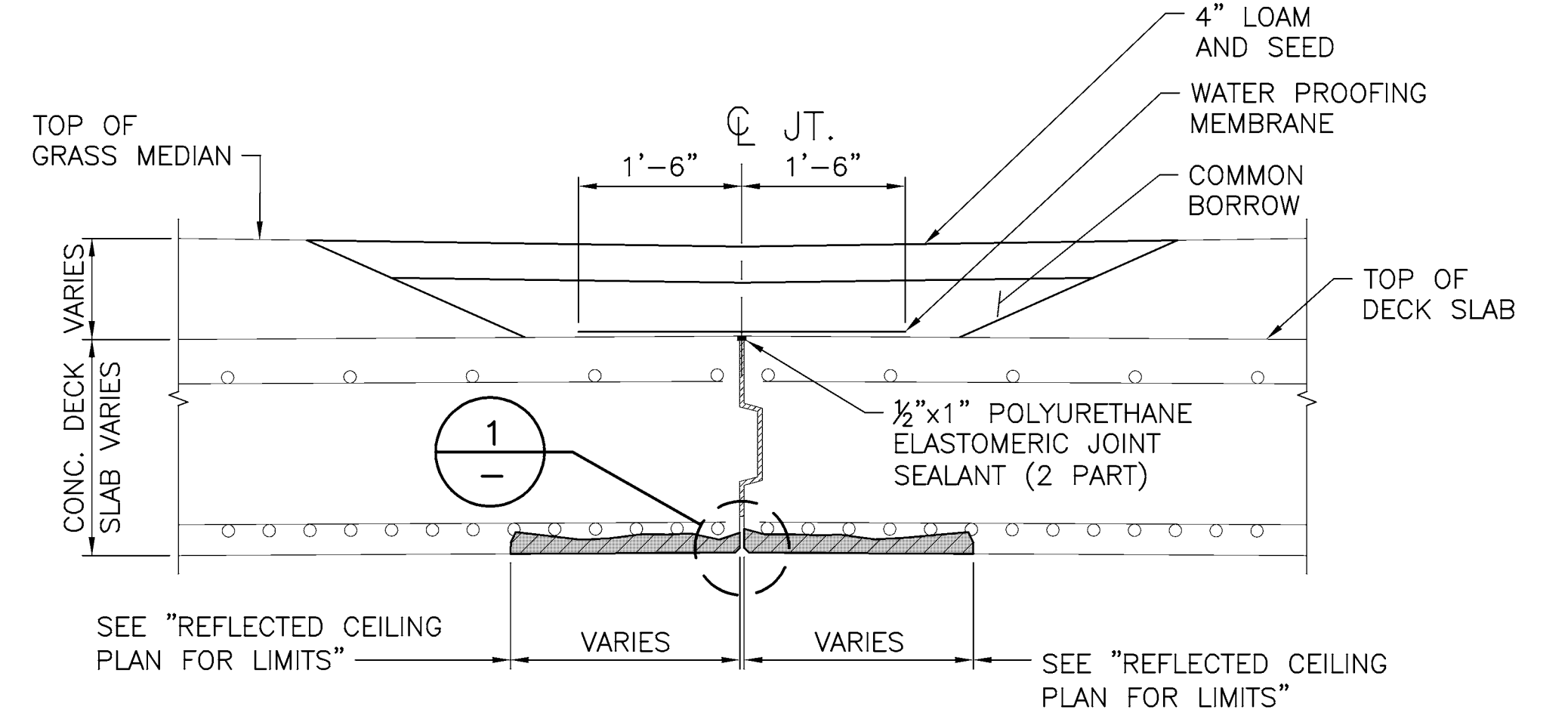
**NOTE:**  
DECK SLAB LONGITUDINAL JOINT WORK TO BE COMPLETED AND THE PAVEMENT RESTORED PRIOR TO MICRO MILLING AND RESURFACING OF THE ROADWAY



**REFLECTED BRIDGE DECK PLAN**  
SCALE: 1"=10'-0"

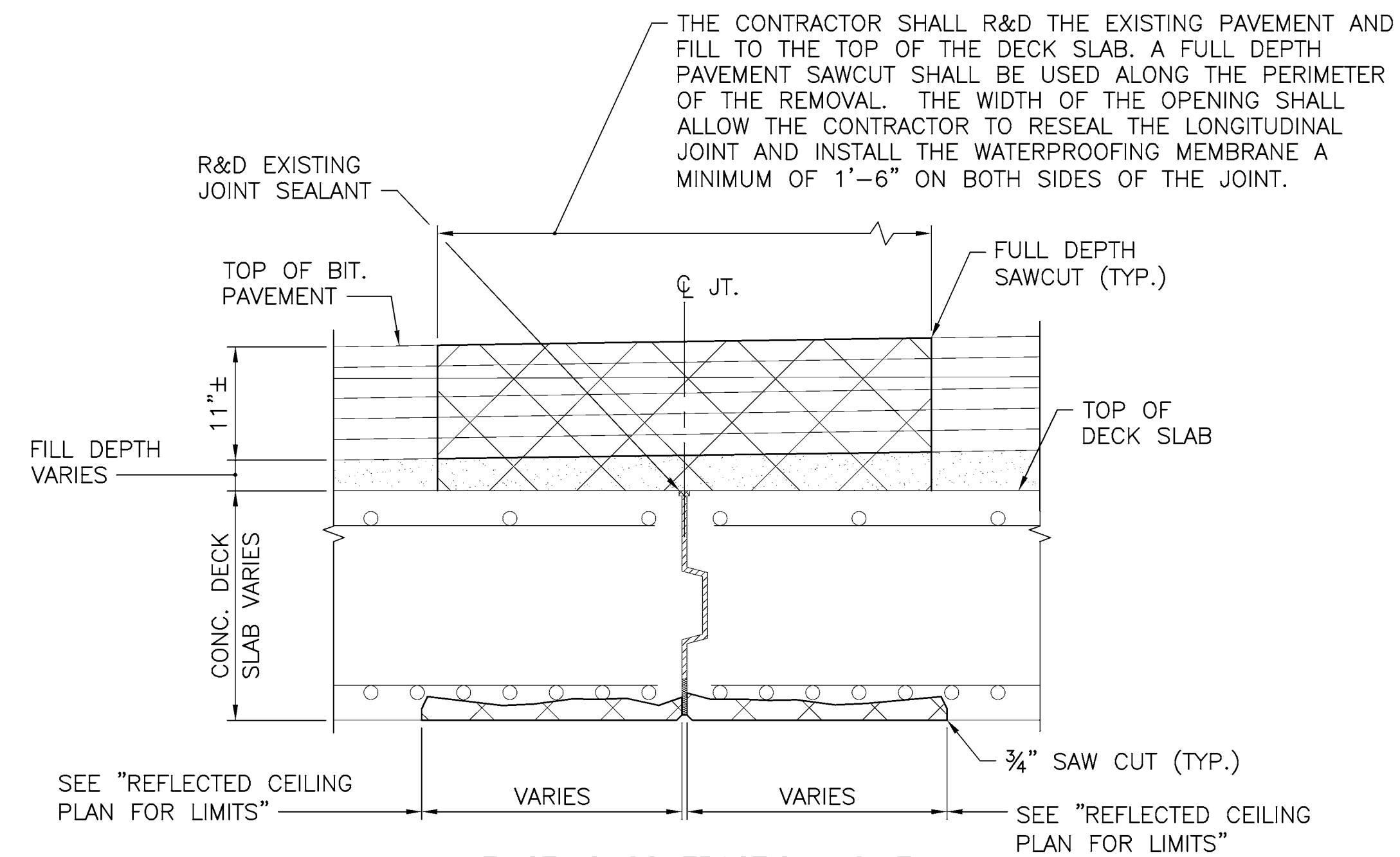


**EXISTING CONTRACTION JOINT LONGITUDINAL SLAB JOINT AT GRASS MEDIAN**  
SCALE: 3/4"=1'-0"

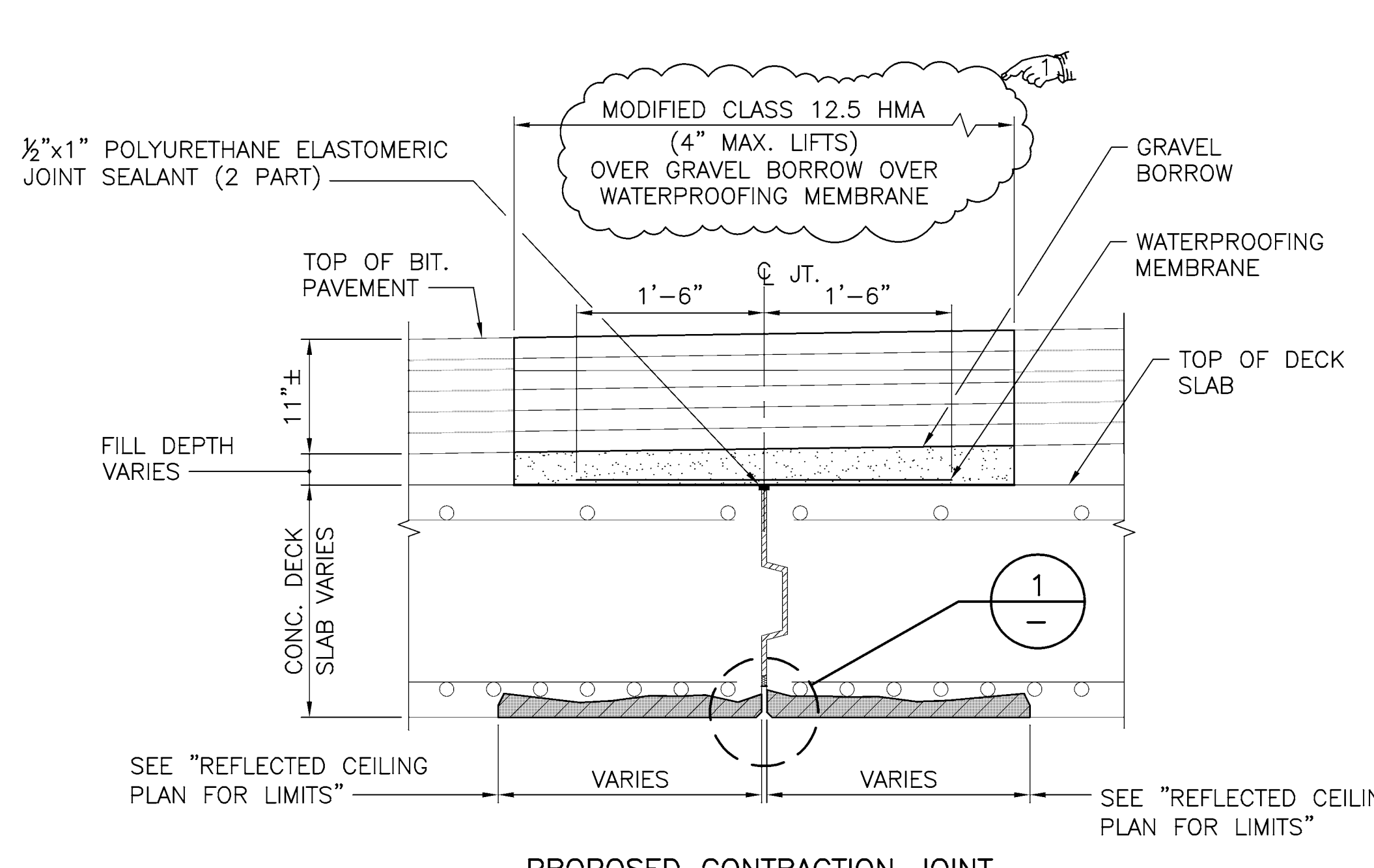


**PROPOSED CONTRACTION JOINT LONGITUDINAL SLAB JOINT AT GRASS MEDIAN**  
SCALE: 3/4"=1'-0"

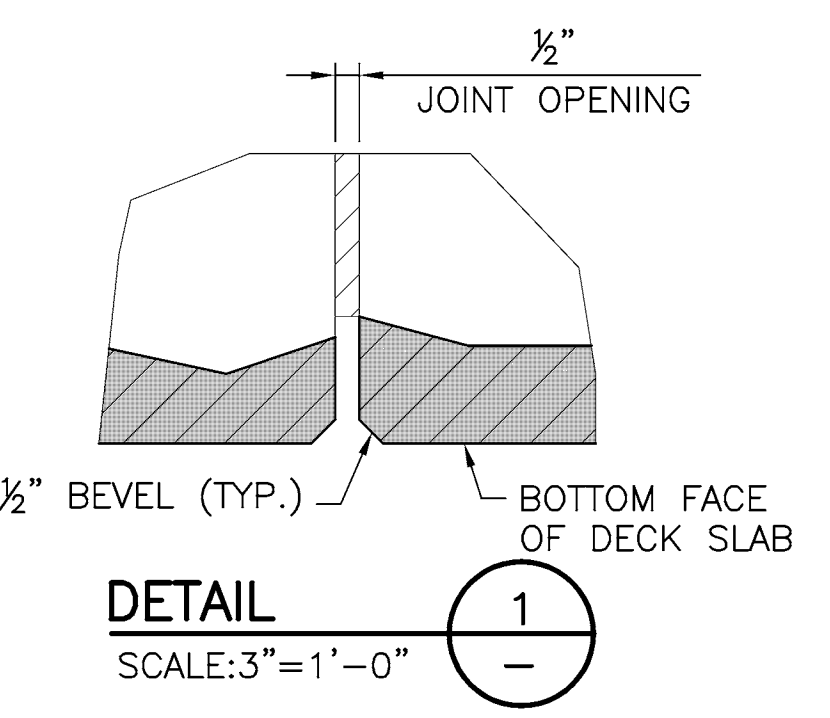
- NOTES:**
- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE MAINTENANCE & PROTECTION OF TRAFFIC PLANS AND RESTRICTIONS NOTED IN THE CONTRACT TMP AND CS PAGES.
  - PAVEMENT MAKE-UP, GRAVEL BORROW AND WATERPROOFING MEMBRANE SHALL BE RESTORED PRIOR TO MICRO MILLING AND REPAVING OF ROADWAY SURFACE.



**EXISTING CONTRACTION JOINT LONGITUDINAL DECK SLAB JOINT**  
SCALE: 1"=1'-0"



**PROPOSED CONTRACTION JOINT LONGITUDINAL DECK SLAB JOINT**  
SCALE: 1"=1'-0"



**LEGEND**

XX (INCHES)	DENOTES AREAS OF REPAIRS TO STRUCTURAL CONCRETE MASONRY (PATCHING MORTAR)
48x1/8 (INCHES)	DENOTES CRACK REPAIR (BY EPOXY BASE ADHESIVE INJECTION)
48 (INCHES)	DENOTES TYPE 2 CRACK REPAIR (BY SURFACE APPLICATION)

**REVISIONS**

NO.	DATE	BY
1	9/25/18	JRO

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

**BRIDGE GROUP 13A-RT 146 C-1**

No. 440, 445, 447, 448, 496, 714, 1191

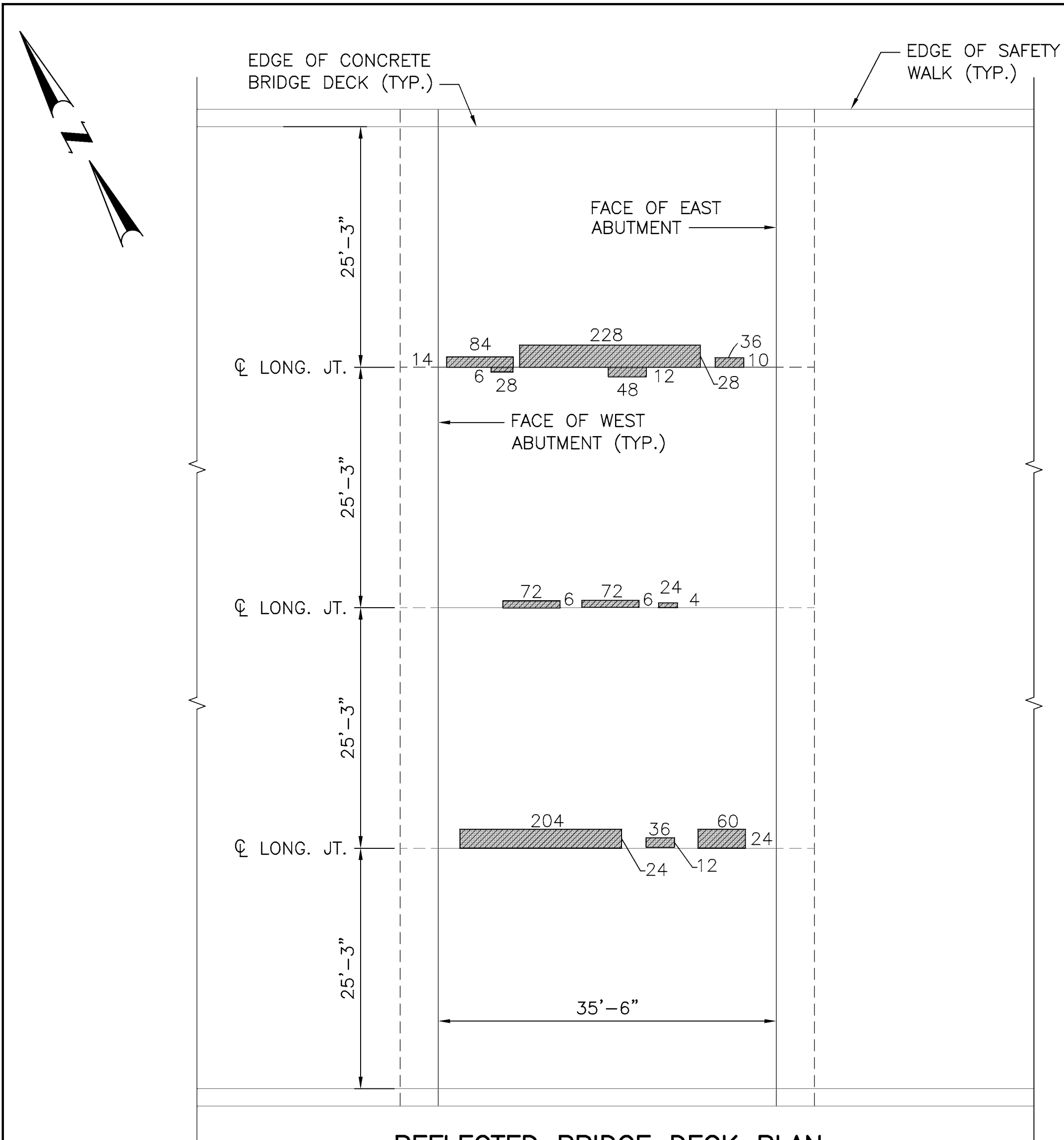
N. SMITHFIELD, PROVIDENCE, RHODE ISLAND

FORESDALE BRIDGE No. 445

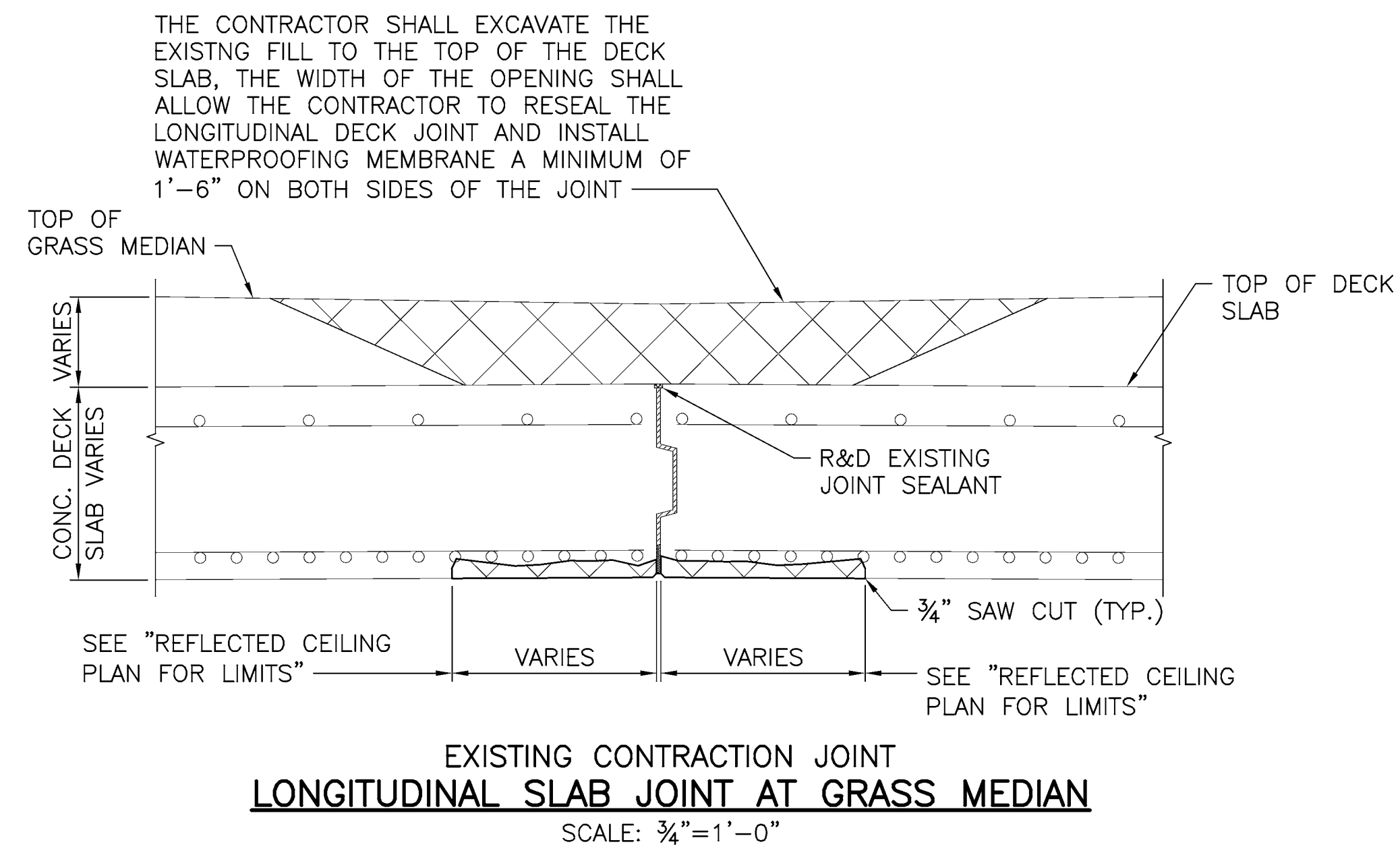
**CONCRETE REPAIR**  
**DETAILS SHEET 2**

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_ SCALE AS SHOWN

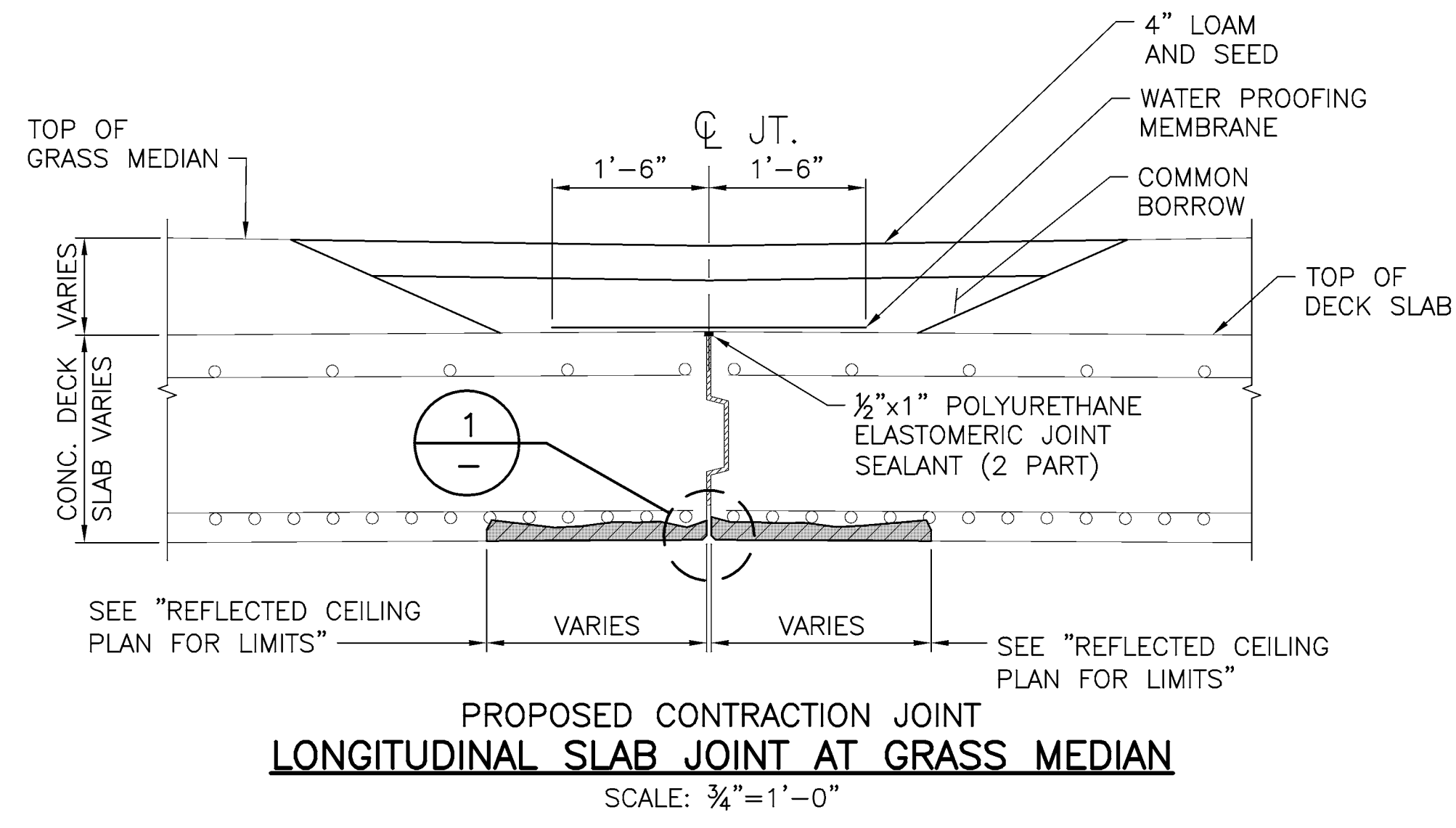




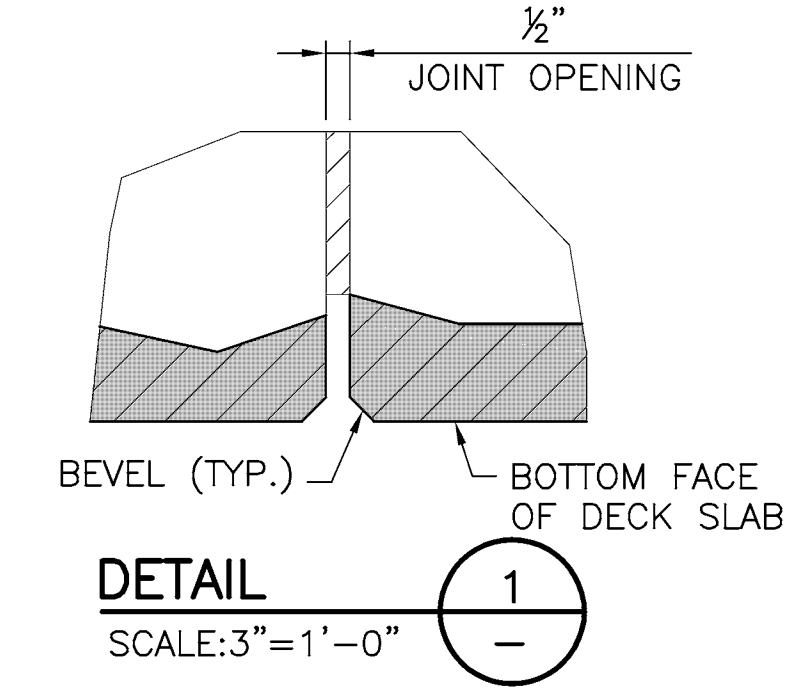
**REFLECTED BRIDGE DECK PLAN**  
SCALE: 1"=10'-0"



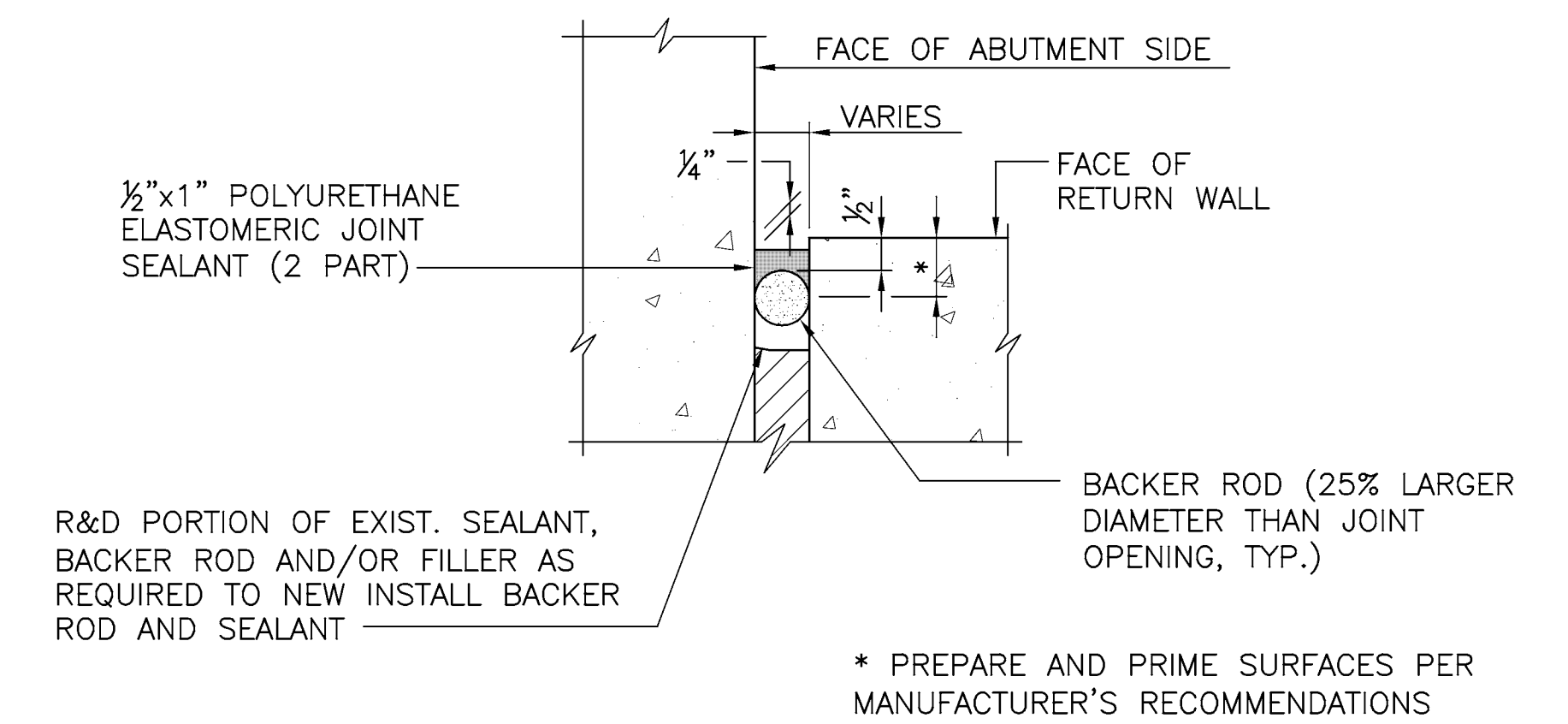
**EXISTING CONTRACTION JOINT LONGITUDINAL SLAB JOINT AT GRASS MEDIAN**  
SCALE: 3/4"=1'-0"



**PROPOSED CONTRACTION JOINT LONGITUDINAL SLAB JOINT AT GRASS MEDIAN**  
SCALE: 3/4"=1'-0"



**DETAIL 1**  
SCALE: 3"=1'-0"

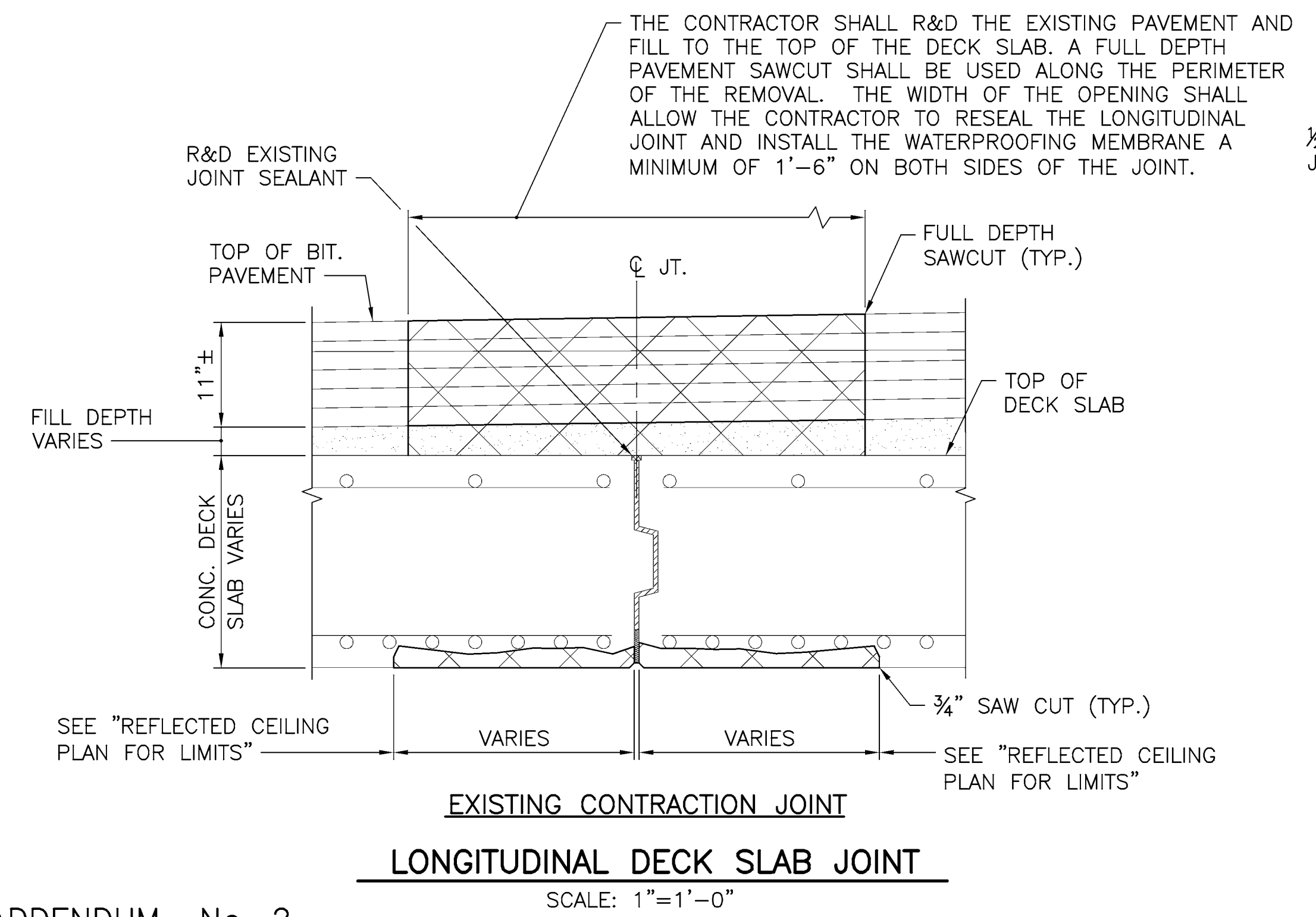


**DETAIL AT NORTHWEST ABUTMENT CORNER**  
**DETAIL 2**  
SCALE: 3"=1'-0"

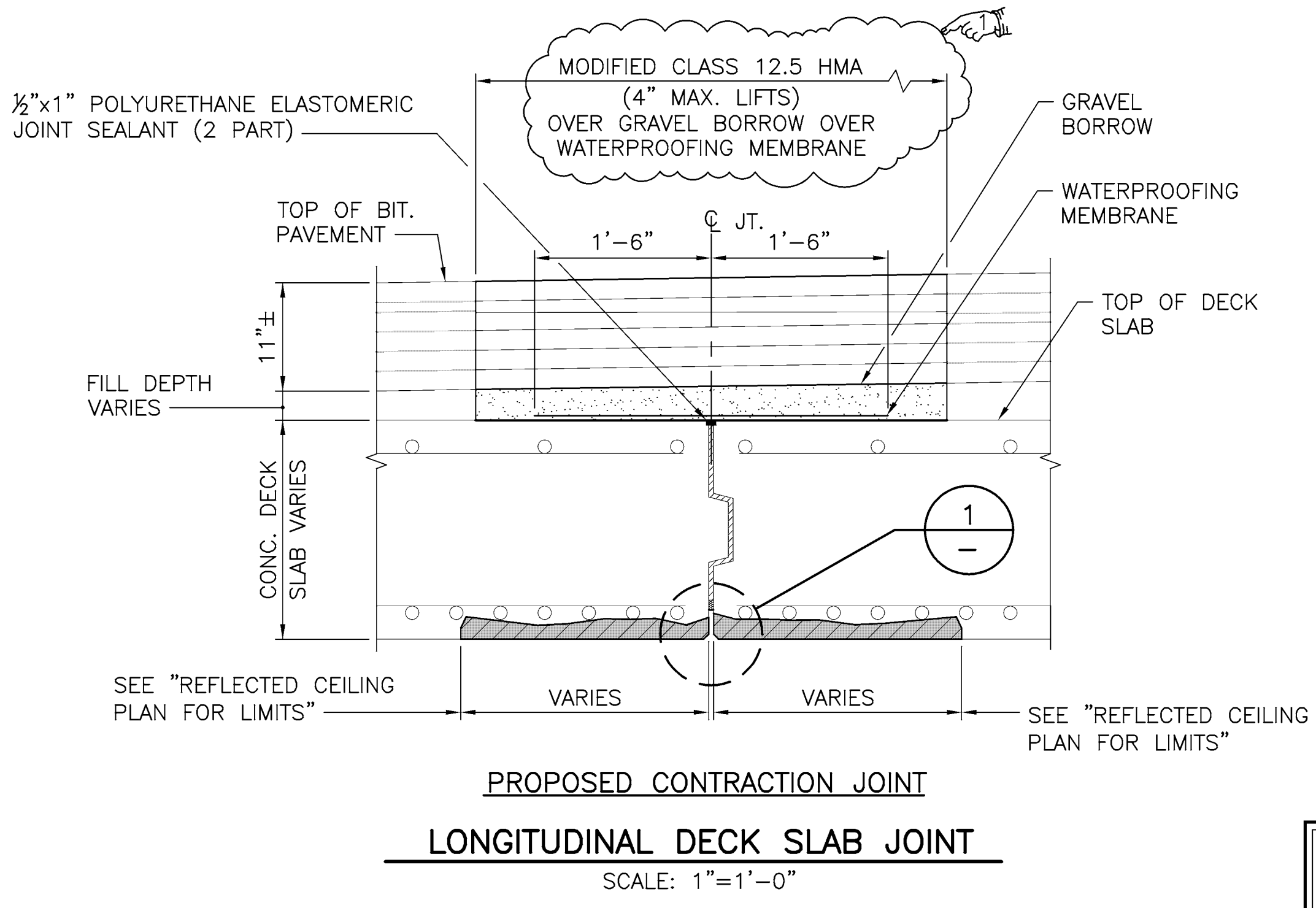
- NOTES:**
- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE MAINTENANCE & PROTECTION OF TRAFFIC PLANS AND RESTRICTIONS NOTED IN THE CONTRACT TMP AND CS PAGES.
  - PAVEMENT MAKE-UP, GRAVEL BORROW AND WATERPROOFING MEMBRANE SHALL BE RESTORED PRIOR TO MICRO MILLING AND REPAVING OF ROADWAY SURFACE.

**LEGEND**

XX (INCHES)	DENOTES AREAS OF REPAIRS TO STRUCTURE CONCRETE MASONRY (PATCHING MORTAR)
48x8 (INCHES)	DENOTES CRACK REPAIR (BY EPOXY BASE ADHESIVE INJECTION)
48 (INCHES)	DENOTES TYPE 2 CRACK REPAIR (BY SURFACE APPLICATION)



**EXISTING CONTRACTION JOINT LONGITUDINAL DECK SLAB JOINT**  
SCALE: 1"=1'-0"



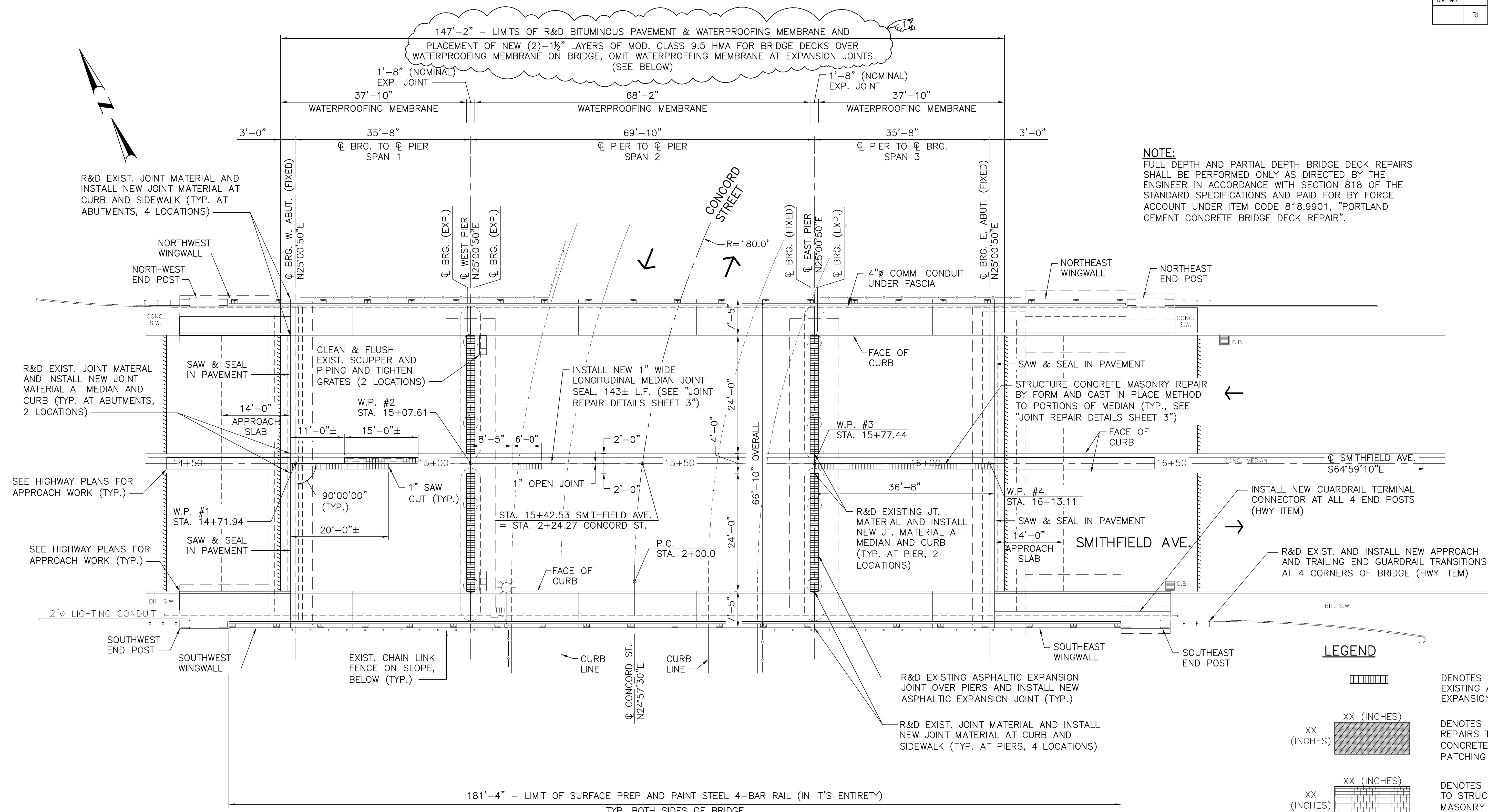
**PROPOSED CONTRACTION JOINT LONGITUDINAL DECK SLAB JOINT**  
SCALE: 1"=1'-0"



REVISIONS		
NO.	DATE	BY
1	9/25/18	JRO

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION**  
**BRIDGE GROUP 13A-RT 146 C-1**  
No. 440, 445, 447, 448, 496, 714, 1191  
N. SMITHFIELD, PROVIDENCE, RHODE ISLAND  
OLD GREAT ROAD BRIDGE No. 448  
**CONCRETE REPAIR DETAILS SHEET 2**

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_ SCALE AS SHOWN



**NOTE:**  
 FULL DEPTH AND PARTIAL DEPTH BRIDGE DECK REPAIRS SHALL BE PERFORMED ONLY AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH SECTION 818 OF THE STANDARD SPECIFICATIONS AND PAID FOR BY FORCE ACCOUNT UNDER ITEM CODE 818.9901, "PORTLAND CEMENT CONCRETE BRIDGE DECK REPAIR".

**GENERAL PLAN**  
 SCALE: 1"=10'-0"

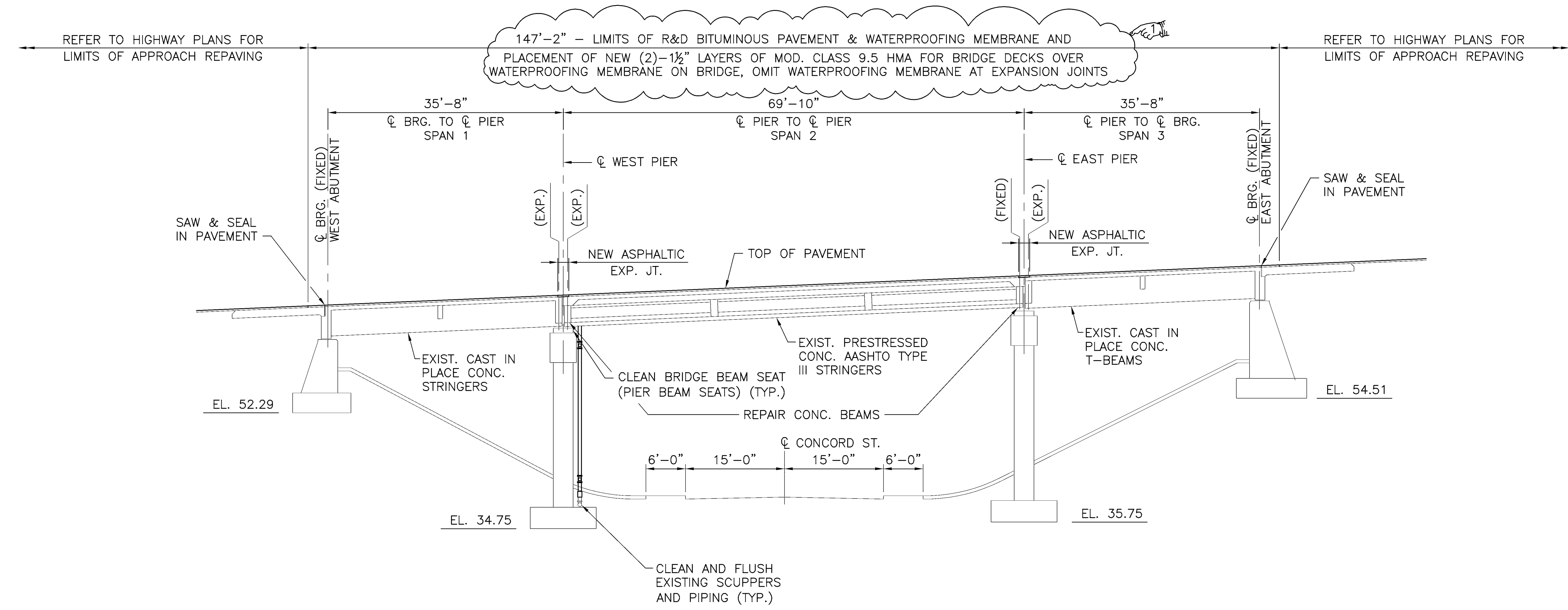
- DESCRIPTION OF PROPOSED REPAIR WORK FOR CONCORD STREET BRIDGE NO. 714:**
- REPAIR AND SEAL LONGITUDINAL MEDIAN JOINT.
  - REPAIR CONCRETE MEDIAN.
  - REPLACE SIDEWALK AND MEDIAN EXPANSION JOINTS AT PIERS AND ABUTMENTS.
  - APPLY CONCRETE CRACK SEALANT.
  - SURFACE PREP AND PAINT STEEL BRIDGE RAILING.
  - INSTALL GUARD RAIL CONNECTION TO EXISTING BRIDGE END POSTS.
  - REMOVE AND REPLACE ASPHALTIC EXPANSION JOINTS AT PIERS.
  - CLEAN BRIDGE SCUPPERS AND PIPING.
  - CLEANING BRIDGE BEAM SEATS (PIER BEAM SEATS ONLY)
  - REPAIR CONCRETE BEAMS.
  - INSTALL SAW & SEAL JOINT IN PAVEMENT AT ABUTMENTS.
  - REMOVE AND REPLACE BITUMINOUS PAVEMENT AND WATER PROOFING MEMBRANE.

- NOTES:**
1. REFER TO HIGHWAY "GENERAL PLAN NO. 4" SHEET FOR LIMITS AND DETAILS OF PROPOSED APPROACH WORK (HWY ITEMS).
  2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MAINTENANCE AND PROTECTION OF TRAFFIC PLANS AND RESTRICTIONS NOTED IN THE TMP AND CONTRACT CS PAGES.
  3. CONSTRUCTION PHASING SHALL BE IN ACCORDANCE WITH THE MAINTENANCE AND PROTECTION OF TRAFFIC PLANS.

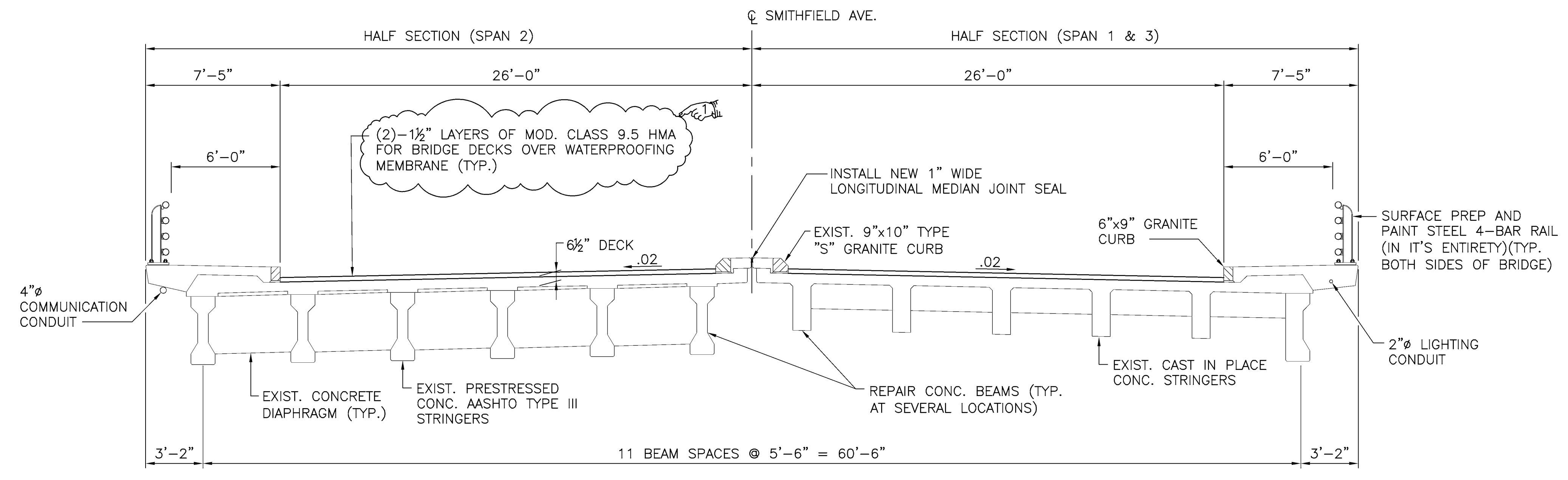
**LEGEND**

	DENOTES LIMITS OF EXISTING ASPHALTIC EXPANSION JOINT
	DENOTES AREAS OF REPAIRS TO STRUCTURE CONCRETE MASONRY (BY PATCHING MORTAR)
	DENOTES AREAS OF REPAIRS TO STRUCTURE CONCRETE MASONRY (BY FORM AND CAST IN PLACE METHOD)

<b>REVISIONS</b> NO. DATE BY 1 9/25/18 JRO			RHODE ISLAND <b>DEPARTMENT OF TRANSPORTATION</b> <b>BRIDGE GROUP 13A-RT 146 C-1</b> No. 440, 445, 447, 448, 496, 714, 1191 N. SMITHFIELD, PROVIDENCE, RHODE ISLAND CONCORD STREET BRIDGE No. 714 <b>BRIDGE GENERAL PLAN</b>
CHECKED BY _____ DATE _____ SCALE AS SHOWN			
400 SMITH STREET PROVIDENCE, RI 02908			



**LONGITUDINAL SECTION**  
SCALE: 1"=10'



**TRANSVERSE SECTION - LOOKING EAST**  
SCALE: 1/4"=1'-0"

REVISIONS		
NO.	DATE	BY
1	9/25/18	JRO

RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

**BRIDGE GROUP 13A-RT 146 C-1**

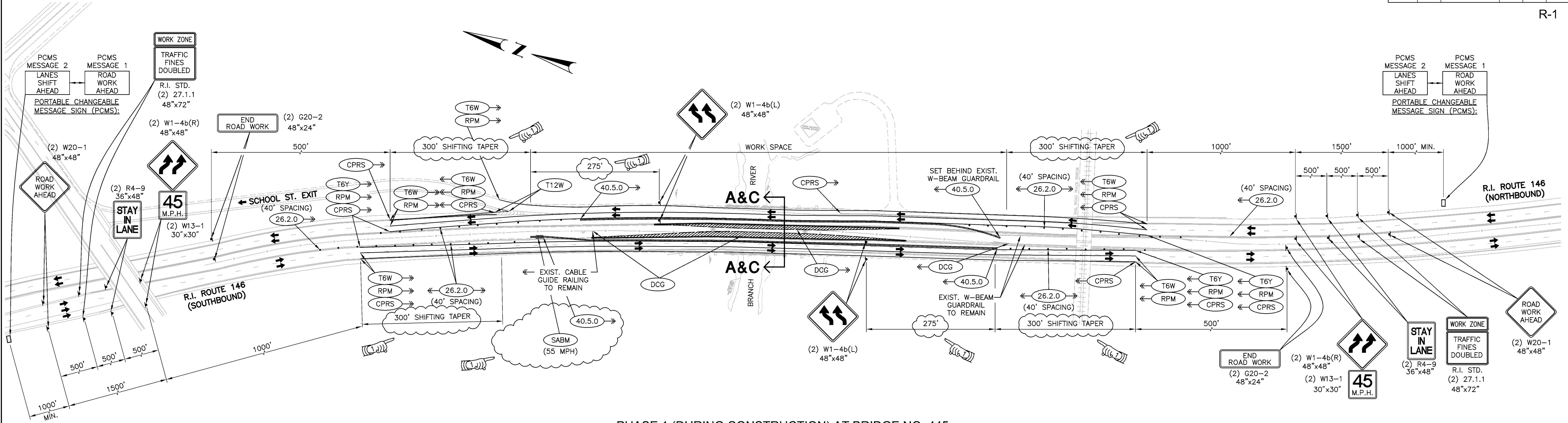
No. 440, 445, 447, 448, 496, 714, 1191

N. SMITHFIELD, PROVIDENCE, RHODE ISLAND

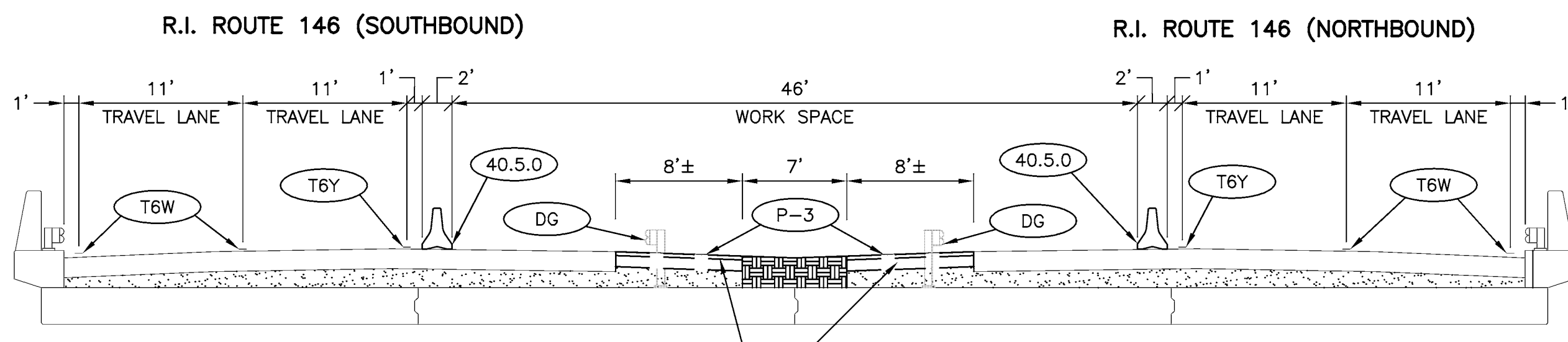
CONCORD STREET BRIDGE No. 714  
**LONGITUDINAL AND TRANSVERSE SECTION**

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_ SCALE AS SHOWN



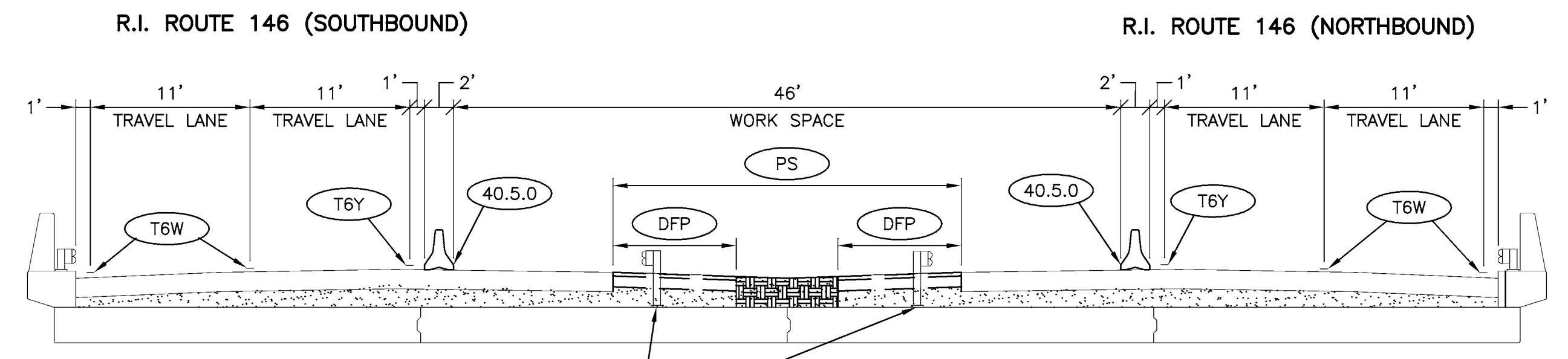


**PHASE 1 (DURING CONSTRUCTION) AT BRIDGE NO. 445**  
SCALE 1"=100'



TEMPORARY PAVEMENT  
3" MODIFIED HMA CLASS 12.5  
12" GRAVEL BORROW SUBBASE COURSE

**SECTION A-A PHASE 1  
(DURING CONSTRUCTION)  
AT BRIDGE NO. 445**  
NOT TO SCALE



SEE BRIDGE PLANS FOR GUARDRAIL  
ON STRUCTURE DETAILS

**SECTION C-C PHASE 2A  
(DURING CONSTRUCTION)  
AT BRIDGE NO. 445**  
NOT TO SCALE

- NOTES:**
- CONSTRUCTION PHASE 2A FOLLOWS PHASE 2.
  - THE TRAFFIC CONTROL SET UP FOR BRIDGE NO. 445 PHASE 1 AND PHASE 2A ARE SIMILAR.

REVISIONS		
NO.	DATE	BY
1	9/25/18	NS

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

**BRIDGE GROUP 13A-RT 146 C-1**

No. 440, 445, 447, 448, 496, 714, 1191

N. SMITHFIELD, PROVIDENCE, RHODE ISLAND  
FORESTDALE BRIDGE No. 445

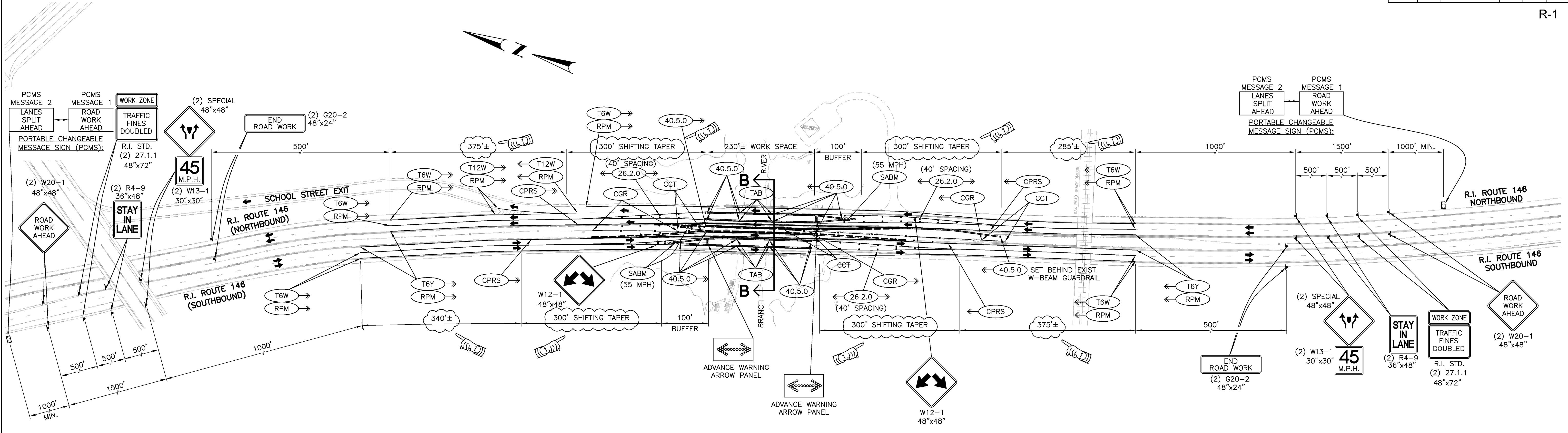
**MAINTENANCE AND PROTECTION  
OF TRAFFIC PLAN No. 4**

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_ SCALE AS SHOWN



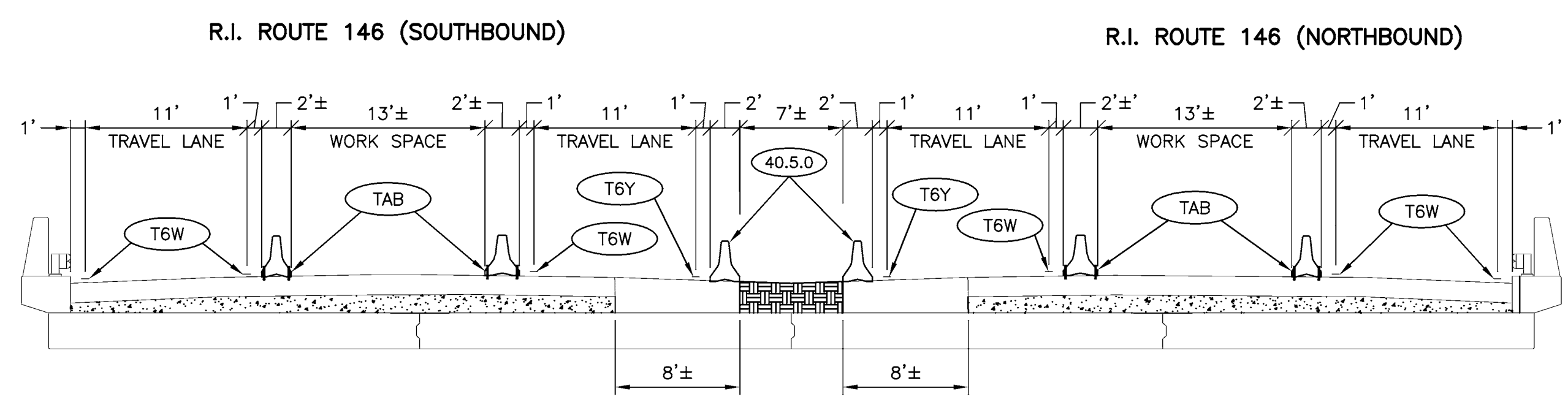
ADDENDUM No. 2

P:\18001\9044.48 Route 146 Bridge\1 Drawing\Transportation\Comm\Drawings\Bridge\445\0135\_V1\_057\_TCONTROL04\_ADD02.dwg, 8/25/2018 4:41:32 PM, NSM



**PHASE 2 (DURING CONSTRUCTION) AT BRIDGE NO. 445**

SCALE 1"=100'



**SECTION B-B PHASE 2 (DURING CONSTRUCTION) AT BRIDGE NO. 445**

NOT TO SCALE

ADDENDUM No. 2



REVISIONS			NO.	DATE	BY
NO.	DATE	BY			
1	9/25/18	NS			

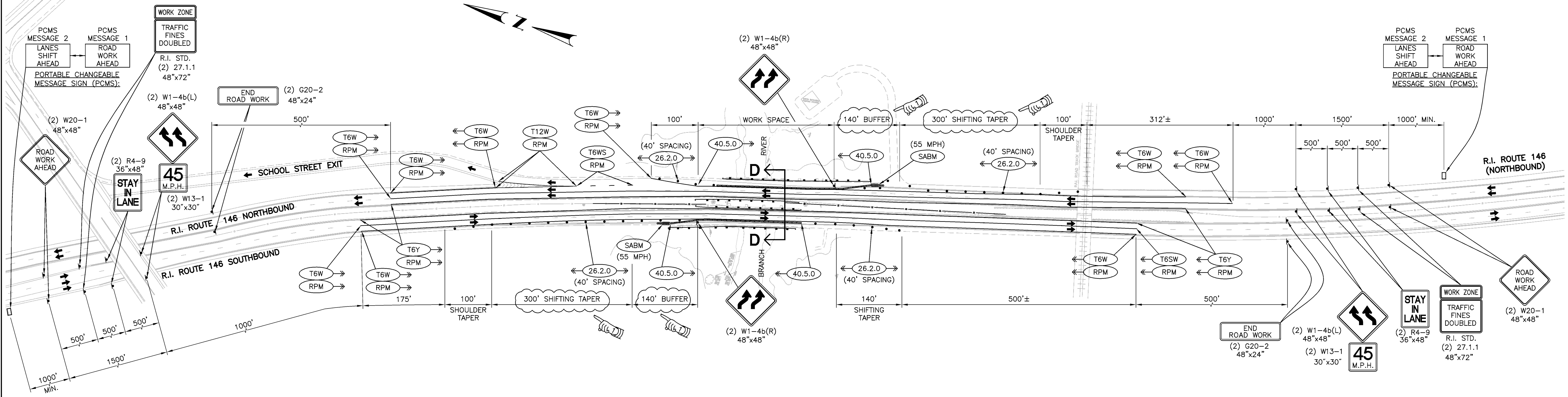
  

RHODE ISLAND		
DEPARTMENT OF TRANSPORTATION		
BRIDGE GROUP 13A-RT 146 C-1		
No. 440, 445, 447, 448, 496, 714, 1191		
N. SMITHFIELD, PROVIDENCE, RHODE ISLAND		
FORESTDALE BRIDGE No. 445		
MAINTENANCE AND PROTECTION OF TRAFFIC PLAN No. 5		
CHECKED BY	DATE	SCALE AS SHOWN

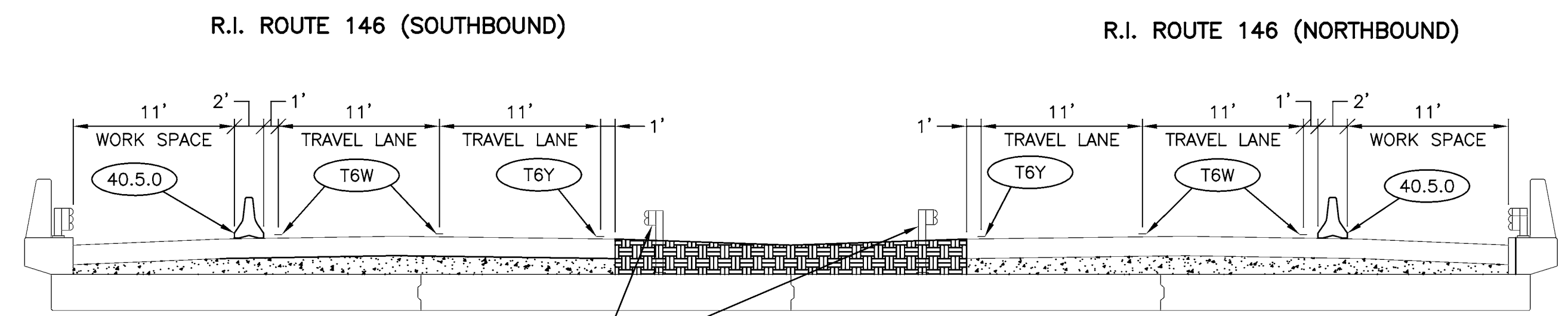


FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	BHO-0146(026)	2018	59	69

R-1



PHASE 3 (DURING CONSTRUCTION) AT BRIDGE NO. 445  
SCALE 1"=100'



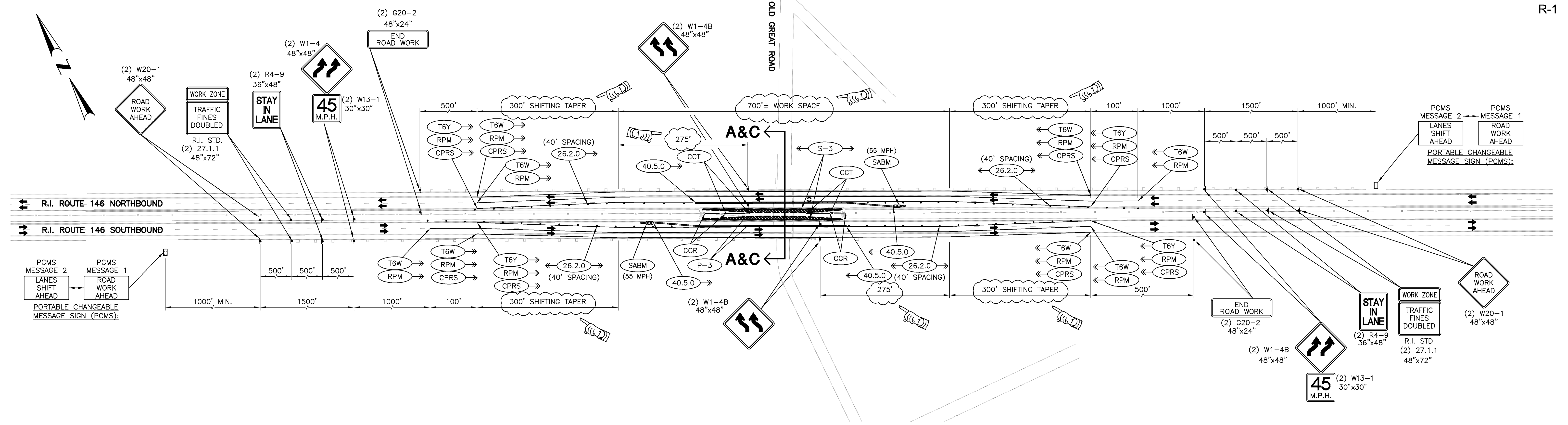
SECTION D-D PHASE 3 (DURING CONSTRUCTION) AT BRIDGE NO. 445  
NOT TO SCALE

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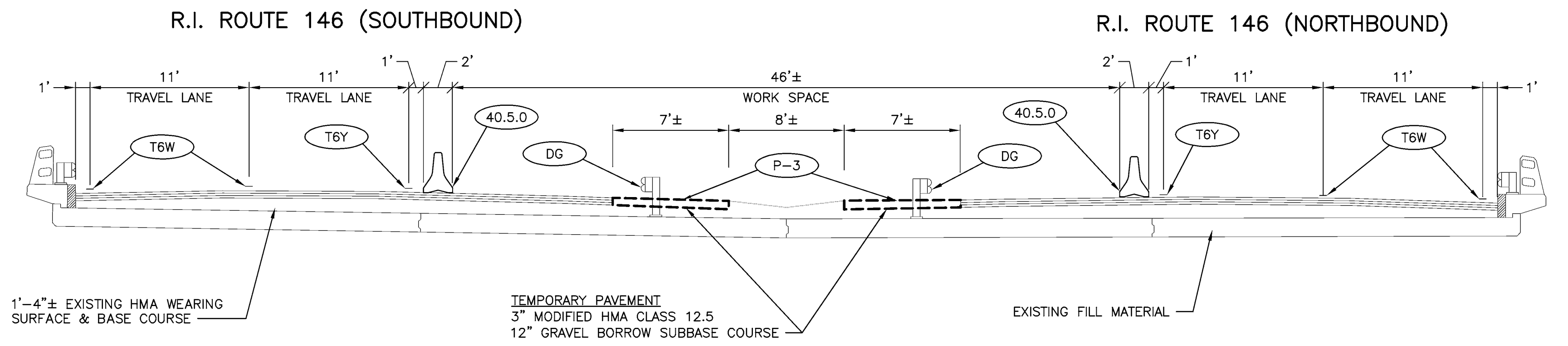
ADDENDUM No. 2



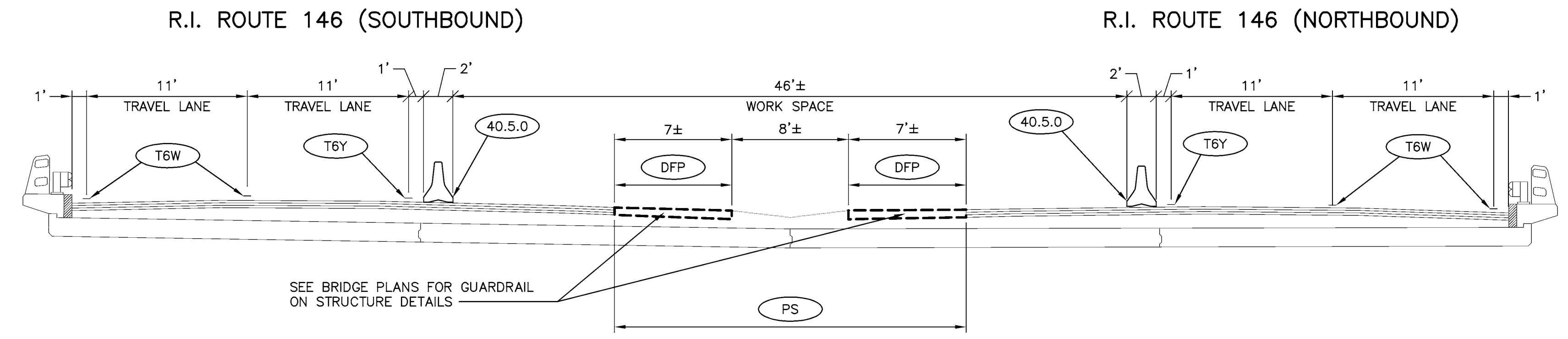
REVISIONS			NO.	DATE	BY	RHODE ISLAND	
NO.	DATE	BY				DEPARTMENT OF TRANSPORTATION	
1	9/25/18	NS				BRIDGE GROUP 13A-RT 146 C-1	
						No. 440, 445, 447, 448, 496, 714, 1191	
						N. SMITHFIELD, PROVIDENCE, RHODE ISLAND	
						FORESDALE BRIDGE No. 445	
						MAINTENANCE AND PROTECTION OF TRAFFIC PLAN No. 6	
			CHECKED BY _____		DATE _____	SCALE AS SHOWN	



PHASE 1 (DURING CONSTRUCTION) AT BRIDGE NO. 448  
SCALE 1"=100'



SECTION A-A PHASE 1  
(DURING CONSTRUCTION)  
AT BRIDGE NO. 448  
NOT TO SCALE



SECTION C-C PHASE 2A  
(DURING CONSTRUCTION)  
AT BRIDGE NO. 448  
NOT TO SCALE

- NOTES:**
- CONSTRUCTION PHASE 2A FOLLOWS PHASE 2.
  - THE TRAFFIC CONTROL SET UP FOR BRIDGE NO. 448 PHASE 1 AND PHASE 2A ARE SIMILAR.

REVISIONS		
NO.	DATE	BY
1	9/25/18	NS

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

**BRIDGE GROUP 13A-RT 146 C-1**

No. 440, 445, 447, 448, 496, 714, 1191

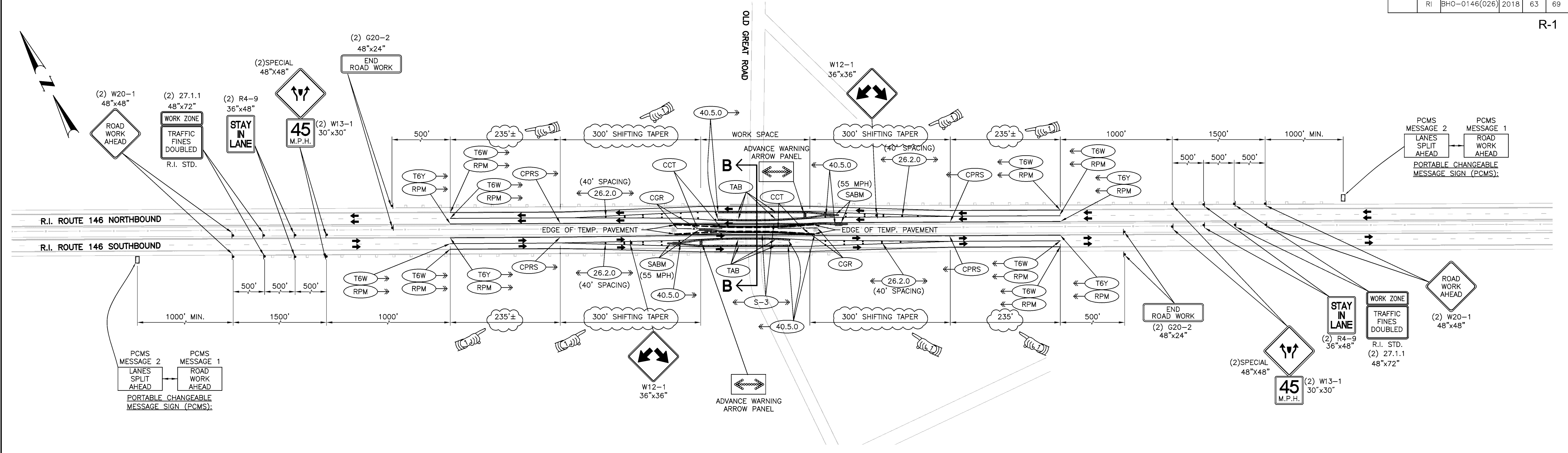
N. SMITHFIELD, PROVIDENCE, RHODE ISLAND  
OLD GREAT ROAD BRIDGE No. 448

**MAINTENANCE AND PROTECTION**  
**OF TRAFFIC PLAN No. 9**

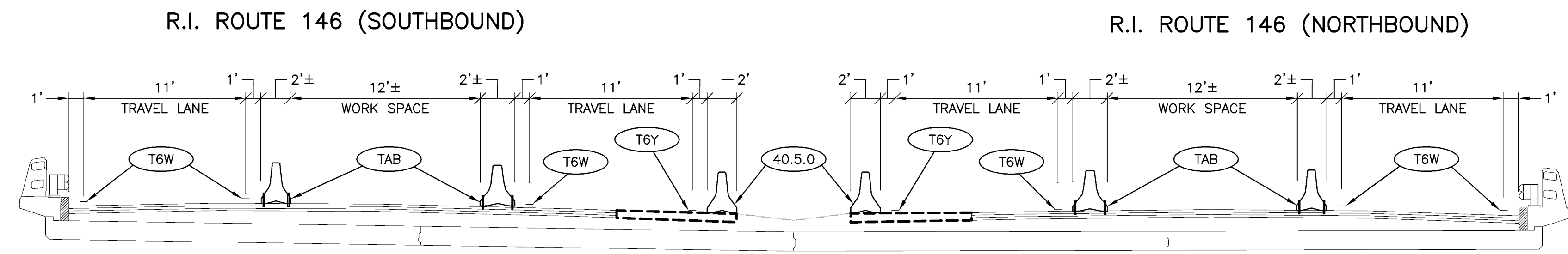
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ADDENDUM No. 2



PHASE 2 (DURING CONSTRUCTION) AT BRIDGE NO. 448  
SCALE 1"=100'



SECTION B-B PHASE 2  
(DURING CONSTRUCTION)  
AT BRIDGE NO. 448  
NOT TO SCALE

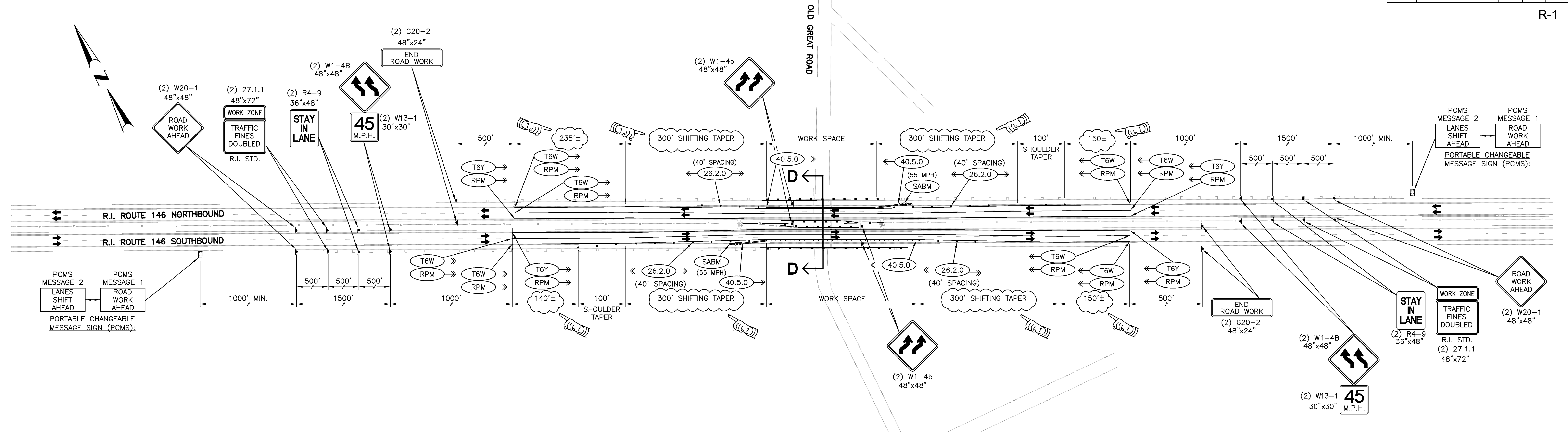
REVISIONS		
NO.	DATE	BY
1	9/25/18	NS

RHODE ISLAND DEPARTMENT OF TRANSPORTATION		
BRIDGE GROUP 13A-RT 146 C-1		
No. 440, 445, 447, 448, 496, 714, 1191		
N. SMITHFIELD, PROVIDENCE, RHODE ISLAND		
OLD GREAT ROAD BRIDGE No. 448		
MAINTENANCE AND PROTECTION OF TRAFFIC PLAN No. 10		
CHECKED BY _____	DATE _____	SCALE AS SHOWN

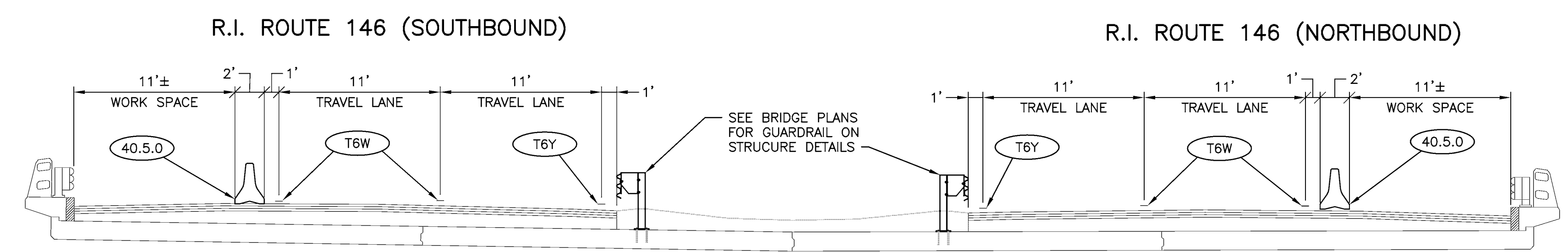


ADDENDUM No. 2

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PHASE 3 (DURING CONSTRUCTION) AT BRIDGE NO. 448  
SCALE 1"=100'



SECTION D-D PHASE 3  
(DURING CONSTRUCTION)  
AT BRIDGE NO. 448  
NOT TO SCALE

REVISIONS		
NO.	DATE	BY
1	9/25/18	NS

RHODE ISLAND		
DEPARTMENT OF TRANSPORTATION		
BRIDGE GROUP 13A-RT 146 C-1		
No. 440, 445, 447, 448, 496, 714, 1191		
N. SMITHFIELD, PROVIDENCE, RHODE ISLAND		
OLD GREAT ROAD BRIDGE No. 448		
MAINTENANCE AND PROTECTION		
OF TRAFFIC PLAN No. 11		
CHECKED BY	DATE	SCALE AS SHOWN



ADDENDUM No. 2

P:\162001\06448\_Route\_448\_Bridge\Drawings\Transportation\Comm\_Drawing\Bridge\4480103\_V1.dwg, TCONTROL11\_ADD02.dwg, 9/25/2018 5:01:01 PM, RMM

## Table of Contents - Distribution of Quantities

Project Name - Bridge Group 13A - Rt 146 C-1  
 Estimate Name - Bridge Group 13A - Rt 146 C-1 - Addendum 2  
 R.I. Contract No. - 2018-CB-083  
 FAP Nos: BHO-0146(026)

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201.0402	REMOVE AND DISPOSE CONCRETE CURB	1
201.0403	REMOVE AND DISPOSE SIDEWALKS	1
201.0409	REMOVE AND DISPOSE FLEXIBLE PAVEMENT	1
201.0415	REMOVE AND DISPOSE GUARDRAIL AND POST ALL TYPES	2
201.0419	REMOVE AND DISPOSE FENCE	2
201.0610	REMOVE AND DISPOSE DIRECTIONAL, WARNING, REGULATORY, SERVICE, AND STREET SIGNS	3
202.0100	EARTH EXCAVATION	3
<b>204.0100</b>	<b>TRIMMING AND FINE GRADING</b>	<b>3</b>
206.0312	COMPOST FILTER SOCK 12 INCH DIAMETER	6
209.9901	SEDIMENTATION CONTROL FOR CATCH BASINS	7
212.2000	CLEANING AND MAINTENANCE OF EROSION CONTROLS	7
213.0100	PLACEMENT OF MILLINGS BENEATH GUARDRAIL	7
<b>302.0100</b>	<b>GRAVEL BORROW SUBBASE COURSE</b>	<b>8</b>
401.1000	CLASS 19.0 HMA	9
<b>401.2100</b>	<b>MODIFIED CLASS 12.5 HMA</b>	<b>9</b>
401.9901	PAY ADJUSTMENTS	10
402.9901	FRICTION COURSE	10
403.0300	ASPHALT EMULSION TACK COAT	11
410.1000	TEMPORARY PATCHING MATERIAL/TRENCHES	11
601.0200	CLASS XX PORTLAND CEMENT CONCRETE	12
704.0100	RECONSTRUCT CATCH BASIN/CORBEL CONES	12
704.0300	RECONSTRUCT CATCH BASIN/VERTICAL WALLS	12
707.1000	ADJUST SANITARY MANHOLE	13
707.1100	ADJUST CATCH BASINS	13
708.9040	CLEANING AND FLUSHING PIPE ALL SIZES	13
708.9041	CLEANING CATCH BASINS ALL TYPES AND SIZES	13
711.0110	3'' PAVED WATERWAY CLASS I-1 STANDARD 8.4.0	13
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800.9902	FORESTDALE BRIDGE NO. 445	14
800.9903	GREAT ROAD BRIDGE NO. 447	14
800.9904	OLD GREAT ROAD BRIDGE NO. 448	14
800.9906	CONCORD STREET BRIDGE NO. 714	14
800.9910	POUND HILL ROADGE BRIDGE NO. 1191	15
817.9901	STRUCTURAL CONCRETE MASONRY BRIDGE RAILING REPAIR	15
817.9902	REPAIRS TO STRUCTURE CONCRETE MASONRY (PATCHING MORTAR)	15
817.9903	REPAIRS TO STRUCTURE CONCRETE MASONRY (FORM AND CAST-IN- PLACE CONCRETE)	15
817.9904	REPAIRS TO STRUCTURE CONCRETE MASONRY - MEDIAN (FORM AND CAST-IN-PLACE CONCRETE)	16
817.9905	REPAIRS TO STRUCTURAL CONCRETE MASONRY - CONCRETE GIRDERS (PATCHING MORTAR)	16
817.9910	CONCRETE BRIDGE SLAB REPAIR	16
836.0100	STRUCTURAL CONCRETE CRACK REPAIR BY EPOXY-RESIN BASE ADHESIVE INJECTION	16
836.9901	STRUCTURAL CONCRETE MASONRY CRACK REPAIR BY SURFACE APPLICATION - TYPE 2	17
901.0101	GUARDRAIL STEEL BEAM SINGLE FACE EARTH AND ASPHALT	17
901.0102	GUARDRAIL STEEL BEAM SINGLE FACE WITH RUBRAIL EARTH AND ASPHALT	17
901.0185	STEEL THRIE BEAM BRIDGE CONNECTION	18
901.0191	GUARDRAIL STEEL BEAM ANCHORAGE TRAILING END SECTION STANDARD 34.3.4	18
901.0200	CABLE GUIDE RAILING GALVANIZED EARTH AND ASPHALT	19

## Table of Contents - Distribution of Quantities

Project Name - Bridge Group 13A - Rt 146 C-1  
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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
008	204.0100	Cont.				
		POUND HILL ROAD NORTH OF		2.00	0014	01
		BRIDGE (8.3.0)				
		POUND HILL ROAD SOUTH OF		2.00	0014	01
		BRIDGE (8.3.0)				
		BRIDGE 1191 (8.4.0)				
		POUND HILL ROAD NORTH OF			0014	01
		BRIDGE (8.4.0)				
		POUND HILL ROAD SOUTH OF			0014	01
		BRIDGE (8.4.0)				
		BRIDGE 1191 (PSOIL)				
		POUND HILL ROAD NORTH OF			0014	01
		BRIDGE (PSOIL)				
		POUND HILL ROAD SOUTH OF			0014	01
		BRIDGE (PSOIL)				
		BRIDGE 1191 (PSOIL)				
		POUND HILL ROAD NORTH OF			0014	01
		BRIDGE (PSOIL)				
		POUND HILL ROAD SOUTH OF			0014	01
		BRIDGE (PSOIL)				
		BRIDGE 1191 (PV-P2)				
		POUND HILL ROAD (PV-P2)		310.00	0014	01
		BRIDGE 440 (PSOIL)				
		EAST OF BRIDGE (PSOIL)			0014	01
		WEST OF BRIDGE (PSOIL)			0014	01
		BRIDGE 440 (PSOIL)				
		EAST OF BRIDGE (PSOIL)			0014	01
		WEST OF BRIDGE (PSOIL)			0014	01
		BRIDGE 445 (PSOIL)				
		EAST OF BRIDGE (PSOIL)			0014	01
		MEDIAN (PSOIL)			0014	01
		BRIDGE 445 (PSOIL)				
		EAST OF BRIDGE (PSOIL)			0014	01
		MEDIAN (PSOIL)			0014	01



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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
008	204.0100 Cont.	WEST OF BRIDGE (PSOIL)			0014	01
		WEST OF BRIDGE (PSOIL)			0014	01
		BRIDGE 445 (PV-P3)				
		TEMPORARY PAVEMENT (PV-P3)		880.00	0014	01
		BRIDGE 448 (8.4.0)				
		NORTH OF BRIDGE (8.4.0)			0014	01
		SOUTH OF BRIDGE (8.4.0)			0014	01
		BRIDGE 448 (PSOIL)				
		EAST OF BRIDGE (PSOIL)			0014	01
		MEDIAN (PSOIL)			0014	01
		WEST OF BRIDGE (PSOIL)			0014	01
		BRIDGE 448 (PSOIL)				
		EAST OF BRIDGE (PSOIL)			0014	01
		MEDIAN (PSOIL)			0014	01
		WEST OF BRIDGE (PSOIL)			0014	01
		BRIDGE 448 (PV-P3)				
		TEMPORARY PAVEMENT (PV-P3)		318.00	0014	01
		BRIDGE 496 (PSOIL)				
		CANAL ST NORTH SIDE (PSOIL)			0014	01
		BRIDGE 496 (PSOIL)				
		CANAL ST NORTH SIDE (PSOIL)			0014	01
		BRIDGE 714 (7.6.0)				
		SMITHFIELD AVE. MEDIAN (7.6.0)		120.00	0014	01
		SMITHFIELD AVE. NORTH OF BRIDGE (7.6.0)		60.00	0014	01
		SMITHFIELD AVE. SOUTH OF BRIDGE (7.6.0)		60.00	0014	01
		BRIDGE 714 (CC-SW)				
		SMITHFIELD AVE. MEDIAN (CC-SW)		27.00	0014	01
		SMITHFIELD AVE. NORTH OF BRIDGE (CC-SW)		25.00	0014	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
008	204.0100	Cont.				
		SMITHFIELD AVE. SOUTH OF		25.00	0014	01
		BRIDGE (CC-SW)				
		BRIDGE 714 (RHHRC)				
		SMITHFIELD AVE. NORTH OF		16.67	0014	01
		BRIDGE (RHHRC)				
		SMITHFIELD AVE. SOUTH OF		16.67	0014	01
		BRIDGE (RHHRC)				
		QUANTITY ROUNDING				
		QUANTITY ROUNDING		0.66	0014	01
<b>Item 204.0100 Total:</b>				<b>1,863.00</b>		
009	206.0312	COMPOST FILTER SOCK 12 INCH	LF			
		DIAMETER				
		BRIDGE 1191				
		POUND HILL ROAD NORTH OF		105.00	0014	01
		BRIDGE				
		POUND HILL ROAD SOUTH OF		100.00	0014	01
		BRIDGE				
		BRIDGE 440				
		ROUTE 146		1,580.00	0014	01
		BRIDGE 445				
		ROUTE 146 NB		305.00	0014	01
		ROUTE 146 SB		270.00	0014	01
		BRIDGE 447				
		ROUTE 146A NORTH OF BRIDGE		50.00	0014	01
		BRIDGE 448				
		ROUTE 146 NB		210.00	0014	01
		ROUTE 146 SB		145.00	0014	01
		BRIDGE 496				
		CANAL ST. NORTH OF BRIDGE		290.00	0014	01
		BRIDGE 714				
		SMITHFIELD AVE. NB		130.00	0014	01
		SMITHFIELD AVE. SB		125.00	0014	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
012	213.0100	Cont.				
		BRIDGE 447				
		ROUTE 146A NORTH OF BRIDGE		50.00	0014	01
		BRIDGE 448				
		ROUTE 146 MEDIAN		330.00	0014	01
		ROUTE 146 NB		150.00	0014	01
		ROUTE 146 SB		185.00	0014	01
		BRIDGE 496				
		CANAL ST. NORTH OF BRIDGE		130.00	0014	01
		BRIDGE 714				
		SMITHFIELD AVE. NORTH OF BRIDGE		110.00	0014	01
		SMITHFIELD AVE. SOUTH OF BRIDGE		110.00	0014	01
<b>Item 213.0100 Total:</b>				<b>3,540.00</b>		
013	302.0100	GRAVEL BORROW SUBBASE COURSE	CY			
		BRIDGE 1191 (8.4.0)				
		POUND HILL ROAD NORTH OF BRIDGE (8.4.0)			0014	01
		POUND HILL ROAD SOUTH OF BRIDGE (8.4.0)			0014	01
		BRIDGE 1191 (PV-P2)				
		POUND HILL ROAD (PV-P2)		103.33	0014	01
		BRIDGE 445 (PV-P3)				
		TEMPORARY PAVEMENT (PV-P3)		293.33	0014	01
		BRIDGE 448 (8.4.0)				
		NORTH OF BRIDGE (8.4.0)			0014	01
		SOUTH OF BRIDGE (8.4.0)			0014	01
		BRIDGE 448 (PV-P3)				
		TEMPORARY PAVEMENT (PV-P3)		105.99	0014	01
		BRIDGE 714 (CC-SW)				
		SMITHFIELD AVE. MEDIAN (CC-SW)		6.00	0014	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
013	302.0100	Cont.				
		SMITHFIELD AVE. NORTH OF		5.56	0014	01
		BRIDGE (CC-SW)				
		SMITHFIELD AVE. SOUTH OF		5.56	0014	01
		BRIDGE (CC-SW)				
		BRIDGE 714 (RHHRC)				
		SMITHFIELD AVE. NORTH OF		5.56	0014	01
		BRIDGE (RHHRC)				
		SMITHFIELD AVE. SOUTH OF		5.56	0014	01
		BRIDGE (RHHRC)				
		QUANTITY ROUNDING				
		QUANTITY ROUNDING		0.11	0014	01
<b>Item 302.0100 Total:</b>				<b>531.00</b>		
014	401.1000	<b>CLASS 19.0 HMA</b>	<b>TON</b>			
		BRIDGE 1191 (PV-P2)				
		POUND HILL ROAD (PV-P2)		133.62	0014	01
		QUANTITY ROUNDING				
		QUANTITY ROUNDING		0.38	0014	01
<b>Item 401.1000 Total:</b>				<b>134.00</b>		
015	401.2100	<b>MODIFIED CLASS 12.5 HMA</b>	<b>TON</b>			
		BRIDGE 1191 (7.5.1)				
		POUND HILL ROAD NORTH OF		3.23	0014	01
		BRIDGE (7.5.1)				
		POUND HILL ROAD SOUTH OF		2.51	0014	01
		BRIDGE (7.5.1)				
		BRIDGE 1191 (8.4.0)				
		POUND HILL ROAD NORTH OF			0014	01
		BRIDGE (8.4.0)				
		POUND HILL ROAD SOUTH OF			0014	01
		BRIDGE (8.4.0)				
		BRIDGE 1191 (PV-P2)				
		POUND HILL ROAD (PV-P2)		40.09	0014	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
015	401.2100 Cont.	BRIDGE 445 (PV-P3)				
		TEMPORARY PAVEMENT (PV-P3)		164.36	0014	01
		BRIDGE 448 (8.4.0)				
		NORTH OF BRIDGE (8.4.0)			0014	01
		SOUTH OF BRIDGE (8.4.0)			0014	01
		BRIDGE 448 (PV-P3)				
		TEMPORARY PAVEMENT (PV-P3)		59.39	0014	01
		BRIDGE 714 (7.6.0)				
		SMITHFIELD AVE. MEDIAN (7.6.0)		15.52	0014	01
		SMITHFIELD AVE. NORTH OF BRIDGE (7.6.0)		7.76	0014	01
		SMITHFIELD AVE. SOUTH OF BRIDGE (7.6.0)		7.76	0014	01
		BRIDGE 714 (PV-P4)				
		SMITHFIELD AVE. NORTH OF BRIDGE (PV-P4)		20.69	0014	01
		SMITHFIELD AVE. SOUTH OF BRIDGE (PV-P4)		20.69	0014	01
		QUANTITY ROUNDING				
		QUANTITY ROUNDING			0014	01
<b>Item 401.2100 Total:</b>				<b>342.00</b>		
016	401.9901	<b>PAY ADJUSTMENTS</b>	<b>EACH</b>			
		PROJECTWIDE				
		PROJECTWIDE		15,000.00	0014	01
<b>Item 401.9901 Total:</b>				<b>15,000.00</b>		
017	402.9901	<b>FRICTION COURSE</b>	<b>TON</b>			
		BRIDGE 440 (PV--P)				
		ROUTE 146 (PV--P)		469.80	0014	01
		BRIDGE 445 (PV--P)				
		ROUTE 146 NB (PV--P)		771.84	0014	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
081	935.0400	Cont.				
		SMITHFIELD AVE. NORTH OF		160.00	0014	01
		BRIDGE (PV-P4)				
		SMITHFIELD AVE. SOUTH OF		160.00	0014	01
		BRIDGE (PV-P4)				
<b>Item 935.0400 Total:</b>				<b>32,785.00</b>		
082	936.0110	<b>MOBILIZATION</b>	<b>LS</b>			
		PROJECTWIDE				
		PROJECTWIDE		1.00	0014	01
<b>Item 936.0110 Total:</b>				<b>1.00</b>		
083	937.0200	<b>MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION</b>	<b>LS</b>			
		PROJECTWIDE				
		PER SPECIFICATION		1.00	0014	01
<b>Item 937.0200 Total:</b>				<b>1.00</b>		
084	943.0200	<b>TRAINEE MAN-HOURS</b>	<b>MHRS</b>			
		PROJECTWIDE				
		PROJECTWIDE		1,300.00	0014	01
<b>Item 943.0200 Total:</b>				<b>1,300.00</b>		
085	L01.0102	<b>LOAM BORROW 4 INCHES DEEP</b>	<b>SY</b>			
		BRIDGE 1191 (PSOIL)				
		POUND HILL ROAD NORTH OF			0014	01
		BRIDGE (PSOIL)				
		POUND HILL ROAD SOUTH OF			0014	01
		BRIDGE (PSOIL)				
		BRIDGE 440 (PSOIL)				
		EAST OF BRIDGE (PSOIL)			0014	01
		WEST OF BRIDGE (PSOIL)			0014	01
		BRIDGE 445 (PSOIL)				
		EAST OF BRIDGE (PSOIL)			0014	01

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
085	L01.0102 Cont.	MEDIAN (PSOIL)			0014	01
		WEST OF BRIDGE (PSOIL)			0014	01
		BRIDGE 448 (PSOIL)				
		EAST OF BRIDGE (PSOIL)			0014	01
		MEDIAN (PSOIL)			0014	01
		WEST OF BRIDGE (PSOIL)			0014	01
		BRIDGE 496 (PSOIL)				
		CANAL ST NORTH SIDE (PSOIL)			0014	01
Item L01.0102 Total:					**DELETED**	
086	L01.0104	<b>PLANTABLE SOIL 4 INCHES DEEP</b>	<b>SY</b>			
		BRIDGE 1191 (PSOIL)				
		POUND HILL ROAD NORTH OF		85.00	0014	01
		BRIDGE (PSOIL)				
		POUND HILL ROAD SOUTH OF		105.00	0014	01
		BRIDGE (PSOIL)				
		BRIDGE 440 (PSOIL)				
		EAST OF BRIDGE (PSOIL)		380.00	0014	01
		WEST OF BRIDGE (PSOIL)		50.00	0014	01
		BRIDGE 445 (PSOIL)				
		EAST OF BRIDGE (PSOIL)		50.00	0014	01
		MEDIAN (PSOIL)		1,240.00	0014	01
		WEST OF BRIDGE (PSOIL)		60.00	0014	01
		BRIDGE 448 (PSOIL)				
		EAST OF BRIDGE (PSOIL)		70.00	0014	01
		MEDIAN (PSOIL)		715.00	0014	01
		WEST OF BRIDGE (PSOIL)		70.00	0014	01
		BRIDGE 496 (PSOIL)				
		CANAL ST NORTH SIDE (PSOIL)		70.00	0014	01
Item L01.0104 Total:				<b>2,895.00</b>		
S087	L02.0101	<b>GENERAL HIGHWAY SEEDING (TYPE 1)</b>	<b>SY</b>			
		BRIDGE 1191 (PSOIL)				

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S087	L02.0101	Cont.				
		POUND HILL ROAD NORTH OF		85.00	0014	01
		BRIDGE (PSOIL)				
		POUND HILL ROAD SOUTH OF		105.00	0014	01
		BRIDGE (PSOIL)				
		BRIDGE 440 (PSOIL)				
		EAST OF BRIDGE (PSOIL)		380.00	0014	01
		WEST OF BRIDGE (PSOIL)		50.00	0014	01
		BRIDGE 445 (PSOIL)				
		EAST OF BRIDGE (PSOIL)		50.00	0014	01
		MEDIAN (PSOIL)		1,240.00	0014	01
		WEST OF BRIDGE (PSOIL)		60.00	0014	01
		BRIDGE 448 (PSOIL)				
		EAST OF BRIDGE (PSOIL)		70.00	0014	01
		MEDIAN (PSOIL)		715.00	0014	01
		WEST OF BRIDGE (PSOIL)		70.00	0014	01
		BRIDGE 496 (PSOIL)				
		CANAL ST NORTH SIDE (PSOIL)		70.00	0014	01
<b>Item L02.0101 Total:</b>				<b>2,895.00</b>		
S088	L02.0102	RESIDENTIAL SEEDING (TYPE 2)	SY			
		BRIDGE 1191 (PSOIL)				
		POUND HILL ROAD NORTH OF			0014	01
		BRIDGE (PSOIL)				
		POUND HILL ROAD SOUTH OF			0014	01
		BRIDGE (PSOIL)				
		BRIDGE 440 (PSOIL)				
		EAST OF BRIDGE (PSOIL)			0014	01
		WEST OF BRIDGE (PSOIL)			0014	01
		BRIDGE 445 (PSOIL)				
		EAST OF BRIDGE (PSOIL)			0014	01
		MEDIAN (PSOIL)			0014	01
		WEST OF BRIDGE (PSOIL)			0014	01
		BRIDGE 448 (PSOIL)				



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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S088	L02.0102 Cont.	EAST OF BRIDGE (PSOIL)			0014	01
		MEDIAN (PSOIL)			0014	01
		WEST OF BRIDGE (PSOIL)			0014	01
		BRIDGE 496 (PSOIL)				
		CANAL ST NORTH SIDE (PSOIL)			0014	01
<b>Item L02.0102 Total:</b>					<b>**DELETED**</b>	
S089	T15.0100	<b>DIRECTIONAL REGULATORY AND WARNING SIGNS</b>	<b>SF</b>			
		BRIDGE 445				
		ROUTE 146 NB W11-2 VERTICAL CLEARANCE 14'-6" SIGN 48X48		32.00	0014	01
		(2)				
		BRIDGE 496				
		MILL STREET		7.00	0014	01
<b>Item T15.0100 Total:</b>				<b>39.00</b>		
S090	T20.0006	<b>6 INCH WHITE FAST - DRYING WATERBORNE PAVEMENT MARKING PAINT</b>	<b>LF</b>			
		BRIDGE 440				
		PHASE 1		3,395.00	0014	01
		PHASE 2		2,305.00	0014	01
		PHASE 3		2,295.00	0014	01
		ROUTE 146 LANE LINES		300.00	0014	01
		ROUTE 146 SHOULDER		1,200.00	0014	01
		BRIDGE 445				
		PHASE 1		6,905.00	0014	01
		PHASE 2		8,500.00	0014	01
		PHASE 2A		6,905.00	0014	01
		PHASE 3		6,585.00	0014	01
		BRIDGE 448				
		PHASE 1		5,420.00	0014	01
		PHASE 2		6,780.00	0014	01