

March 31, 2020

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID NO. 7602817

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO.2020-CB-023

FEDERAL-AID PROJECT NO. FAP Nos: BRO-0673(002)

Bridge Group 43A - Mohegan

Broncos Highway Sta. 262+50 to Sta. 271+00

CITY/TOWN OF Burrillville

COUNTY OF PROVIDENCE

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 3 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. Contract Dates

1. Substantial Completion Date

The Substantial Completion Date has been updated to 04/28/2023.

2. Phase 2 Completion Date

An Interim Completion Date (Phase 2 Completion Date) of 12/09/2022 has been added.

3. Bid-Opening Date

The Bid-Opening Date has been updated to 05/05/2020.

B. Contract Documents

1. CS Page 4

Remove Page CS-4 in its entirety and replace with revised Page CS-4 (R-1) attached to this Addendum No. 3.

The Substantial Completion Date has been changed to April 28, 2023, and an Interim Completion Date of December 9, 2022 has been added.

2. JS Page 4

Remove Page JS-4 in its entirety and replace with revised Page JS-4 (R-1) attached to this Addendum No. 3.

The Substantial Completion Date has been changed to April 28, 2023, and an Interim Completion Date of December 9, 2022 has been added.

3. JS Page 58

Remove Page JS-58 in its entirety and replace with revised Page JS-58 (R-1) attached to this Addendum No. 3.

The role of Engineer for CSL testing has been clarified.

4. JS Page 60

Remove Page JS-60 in its entirety and replace with revised Page JS-60 (R-1) attached to this Addendum No. 3.

“Engineer” has been changed to “Professional Engineer” in paragraph 1.

5. JS Page 64

Remove Page JS-64 in its entirety and replace with revised Page JS-64 (R-1) attached to this Addendum No. 3.

The role of Engineer for CSL testing has been clarified.

6. JS Page 70

Remove Page JS-70 in its entirety and replace with revised Page JS-70 (R-1) attached to this Addendum No. 3.

The role of Engineer for CSL testing has been clarified.

7. JS Page 75

Remove Page JS-75 in its entirety and replace with revised Page JS-75 (R-1) attached to this Addendum No. 3.

The “Tube Spacing” angle has been modified.

8. JS Page 79

Remove Page JS-79 in its entirety and replace with revised Page JS-79 (R-1) attached to this Addendum No. 3.

The definition of the top of the drilled shaft has been clarified in Method of Measurement.

9. JS Page 80

Remove Page JS-80 in its entirety and replace with revised Page JS-80 (R-1) attached to this Addendum No. 3.

Paragraph 1 of Basis of Payment has been modified for clarity.

10. JS Page 86 & 87

Remove Pages JS-86 & JS-87 in their entirety and replace with revised Pages JS-86 (R-1) & JS-87 (R-1) attached to this Addendum No. 3.

Prices for Liquid Asphalt Cement, Diesel Fuel, and Steel have been updated.

C. Drawings/Plans - Change/Addition

1. Sheet 5 – Job Specific Plan Symbols, Legend and Notes

Remove Sheet 5 in its entirety and replace it with revised Sheet 5 (R-1) attached to this Addendum No. 3.

Job Specific Rhode Island Standard Details note has been revised.

2. Sheet 6 – Typical Sections

Remove Sheet 6 in its entirety and replace it with revised Sheet 6 (R-1) attached to this Addendum No. 3.

Typical Sections have been revised.

3. Sheet No. 7 of 68 – General Plan

Remove Sheet 7 in its entirety and replace it with revised Sheet 7 (R-1) attached to this Addendum No. 3.

Callouts have been modified.

4. Sheet 8 – Drainage & Utility Plan

Remove Sheet 8 in its entirety and replace it with revised Sheet 8 (R-1) attached to this Addendum No. 3.

The callouts for the catch basin at Sta. 267+55 LT have been revised and “GRADE TO DRAIN” callouts have been added at Sta. 269+40 LT & RT.

5. Sheet 9 – Drainage Details

Remove Sheet 9 in its entirety and replace it with revised Sheet 9 (R-1) attached to this Addendum No. 3.

The “GRADE TO DRAIN” callouts have been added at Sta. 269+40 LT & RT.

6. Sheet 10 – Location Plan

Remove Sheet 10 in its entirety and replace it with revised Sheet 10 (R-1) attached to this Addendum No. 3.

The dimensions have been revised and a Curb Curve Data Table has been added.

7. Sheet 15 – Signing and Pavement Marking Plan

Remove Sheet 15 in its entirety and replace it with revised Sheet 15 (R-1) attached to this Addendum No. 3.

The sign numbering and pavement marking callouts have been revised.

8. Sheet 25 – Maintenance & Protection of Traffic Plan No. 5

Remove Sheet 25 in its entirety and replace it with revised Sheet 25 (R-1) attached to this Addendum No. 3.

The pavement marking callouts have been revised.

9. Sheets 28 & 29 – Cross Section Nos. 1 & 2

Remove Sheets 28 & 29 in their entirety and replace them with revised Sheets 28 & 29 (R-1) attached to this Addendum No. 3.

The curbs have been revised.

10. Sheets 31 to 34 – Bridge General Notes Sheets 1-4

Remove Sheets 31 to 34 in their entirety and replace with revised Sheets 31 (R-1) to 34 (R-1) attached to this Addendum No. 3.

Notes have been revised.

11. Sheet 38 – Longitudinal and Transverse Sections

Remove Sheet 38 in its entirety and replace with revised Sheet 38 (R-1) attached to this Addendum No. 3.

Call-outs regarding waterproofing membrane have been revised.

12. Sheet 39 – Phase Construction

Remove Sheet 39 in its entirety and replace with revised Sheet 39 (R-1) attached to this Addendum No. 3.

Call-outs regarding waterproofing membrane have been revised.

13. Sheet 46 – Abutment Sections and Details Sheet 1

Remove Sheet 46 in its entirety and replace with revised Sheet 46 (R-1) attached to this Addendum No. 3.

Notes have been revised.

14. Sheet 49 – Pier Reinforcing Details

Remove Sheet 49 in its entirety and replace with revised Sheet 49 (R-1) attached to this Addendum No. 3.

A call-out has been revised.

15. Sheet 50 – Drilled Shaft Details 1

Remove Sheet 50 in its entirety and replace with revised Sheet 50 (R-1) attached to this Addendum No. 3.

Notes and call-outs have been revised.

16. Sheet 52 – Girder Details

Remove Sheet 52 in its entirety and replace with revised Sheet 52 (R-1) attached to this Addendum No. 3.

Notes and call-outs have been revised / added.

17. Sheet 59 – Camber Details

Remove Sheet 59 in its entirety and replace with revised Sheet 59 (R-1) attached to this Addendum No. 3.

The camber table and camber diagram have been revised.

18. Sheet 60 – Deck Reinforcing and Sections Sheet 1

Remove Sheet 60 in its entirety and replace with revised Sheet 60 (R-1) attached to this Addendum No. 3.

Notes have been revised.

19. Sheet 61 – Deck Reinforcing and Sections Sheet 2

Remove Sheet 61 in its entirety and replace with revised Sheet 61 (R-1) attached to this Addendum No. 3.

Details have been revised / added.

D. Distribution of Quantities

1. Table of Contents

Remove Index Pages 1 (R-1) through 3 (R-1) in their entirety and replace them with revised Index Pages 1 (R-2) through 3 (R-2) and insert new Index Page 4 attached to this Addendum No. 3. The Table of Contents has been revised.

2. Page 1

Remove Page 1 in its entirety and replace it with revised Page 1 (R-1) and insert new Page 1a attached to this Addendum No. 3. Item Code 201.0402 “Remove and Dispose Concrete Curb” has been deleted. Item Codes 201.0409 “Remove and Dispose Flexible Pavement” and 201.0419 “Remove and Dispose Fence” have been revised.

3. Pages 2 through 8

Remove Pages 2, 3, 4 (R-1) through 7 (R-1), 7a (R-1), and 8 (R-1) in their entirety and replace them revised Pages 2 (R-1), 3 (R-1), 4 (R-2) through 7 (R-2), 7a (R-2), 8 (R-2) and insert new Pages 2a, 3a, 5a and 8a attached to this Addendum No. 3. Item Code 401.3000 “Class 9.5 HMA” has been deleted. Item Codes 201.0428 “Remove and Dispose Frame and Grate or Frame and Cover”, 201.0610 “Remove and Dispose Directional, Warning, Regulatory, Service, and Street Signs”, 202.0100 “Earth Excavation”, 204.0100 “Trimming and Fine Grading”, 206.0312 “Compost Filter Sock 12 Inch Diameter”, 209.0200 “Sack Insert Catch Basin Inlet Protection”, 213.0100 “Placement of Millings Beneath Guardrail”, 302.0100 “Gravel Borrow Subbase Course”, 401.1000 “Class 19.0 HMA”, 401.2100 “Modified Class 12.5 HMA”, 403.0300 “Asphalt Emulsion Tack Coat”, and 410.1000 “Materials/Trenches Temporary Patching” have been revised.

4. Page 9

Remove Page 9 in its entirety and replace it with revised Page 9 (R-1) attached to this Addendum No. 3. Item Code 701.9902 “8-Inch PVC Pipe and Fittings” has been revised.

5. Page 10

Remove Page 10 in its entirety and replace it with revised Page 10 (R-1) and insert new Page 10a attached to this Addendum No. 3. Item Code 702.0533 “Precast Concrete Apron Stone 38” Standard 7.1.8” has been deleted. Item Code 702.0515 “Frame and Grate High Capacity Standard 6.3.3” has been revised.

6. Pages 11 and 12

Remove Pages 11 and 12 in their entirety and replace them with revised Pages 11 (R-1) and 12 (R-1), and insert new Page 12a attached to this Addendum No. 3. Item Codes 702.9910 “Sewer Manhole Frame and Cover Burrillville Standard” and 702.9911 “Precast Sewer Manhole 4’ Diameter Burrillville Standard” have been deleted. Item Codes 707.1000 “Adjust Sanitary Manhole” and 702.1100 “Adjust Catch Basins” have been revised.

7. Pages 13 and 14

Remove Pages 13 and 14 in their entirety and replace them with revised Pages 13 (R-1) and 14 (R-1) attached to this Addendum No. 3. Item Code 711.0110 “3” paved Waterway Class I-1 Standard 8.4.0” has been revised.

8. Page 15

Remove Page 15 in its entirety and replace it with revised Page 15 (R-1) attached to this Addendum No. 3. Item Codes 841.9901 “Drilled Shaft – Furnish and Install” and 841.9902 “Drilled Shaft – Obstruction Removal” have been revised.

9. Pages 16 and 17

Remove Pages 16 and 17 (R-1) in their entirety and replace them with revised Pages 16 (R-1) and 17 (R-2) and insert new Page 17a attached to this Addendum No. 3. Item Codes 906.0210 “Cement Concrete Curb Precast Straight Standard 7.1.0” and 906.0221 “6’ Precast Concrete Transition Curb Standard 7.1.2” have been deleted. Item Codes 903.0206 “Chain Link Fence 6’ STD 31.2.0”, 903.0410 “Temporary Chain Link Fence” and 906.0602 “Bituminous Berm Standard 7.5.1” have been revised.

10. Page 18

Remove Page 18 in its entirety and replace it with revised Page 18 (R-1) and insert new Page 18a attached to this Addendum No. 3. Item Code 919.0101 “Test Pits” has been revised.

11. Pages 19 through 22

Remove Pages 19 through 22 in their entirety and replace them with revised Pages 19 (R-1) through 22 (R-1) attached to this Addendum No. 3. Item Codes 922.0100 “Temporary Construction Signs Standard 29.1.0 and 27.1.1” and 923.0105 “Drum Barricade Standard 26.2.0” have been revised.

12. Page 23

Remove Page 23 (R-1) in its entirety and replace it with revised Page 23 (R-2) attached to this Addendum No. 3. Item Code 929.0110 “Field Office” has been revised.

13. Pages 24 through 26

Remove Page 24 (R-1), 25 and 26 in their entirety and replaces them with revised Pages 24 (R-2), 25 (R-1) and 26 (R-1) attached to this Addendum No. 3. Item Codes 935.0400 “Removing Bituminous Pavement by Micromilling”, L01.0104 “Plantable Soil 4 Inches Deep”, L02.0101 “General Highway Seeding”, L09.9901 “Selective Clearing for Construction Access at Bridge No. 673” and T04.5001 “6 AWG Single Conductor Cable 600V Insulation” have been revised.

14. Pages 29 and 30

Remove Pages 29 and 30 in their entirety and replace them with revised Pages 29 (R-1) and 30 (R-1), and insert new Page 30a attached to this Addendum No. 3. Item Code T15.0100 “Directional Regulatory and Warning Signs” has been revised.

15. Pages 31 through 36

Remove Pages 31 through 36 in their entirety and replace them with revised Pages 31 (R-1) through 36 (R-1), and insert new Pages 31a, 32a, 33a and 34a attached to this Addendum No. 3. Item Codes T20.0706 “6 Inch White Waterborne Paint Pavement Markings”, T20.0712 “12 Inch White Waterborne Paint Pavement Markings”, T20.0904 “4 Inch Yellow Waterborne Paint Pavement Markings”, T20.2406 “6 Inch White Final Epoxy Resin Pavement Markings”, T20.2412 “12 Inch White Final Epoxy Resin Pavement Markings”, T20.2506 “6 Inch Interim White Epoxy Resin Pavement Markings”, T20.2512 “12 Inch Interim White Epoxy Resin Pavement Markings”, T20.2506 “6 Inch White Interim Epoxy Resin Pavement Markings”, T20.2512 “12 Inch White Interim Epoxy Resin Pavement Markings”, T20.2804 “4 Inch Yellow Final Epoxy Resin Pavement Markings”, T20.2904 “4 Inch Yellow Interim Epoxy Resin Pavement Markings”, T20.2906 “6 Inch Yellow Interim Epoxy Resin Pavement Markings”, T20.4506 “Remove Pavement Marking Line – Less Than or Equal to 6 Inches Wide”, and T20.4508 “Remove Pavement Marking Line – Greater Than 6 Inches Wide” have been revised.

16. Pages 37 through 40

Insert new Pages 37 through 40 attached to this Addendum No. 3. Item Codes 201.0403 "Remove and Dispose Sidewalks", 201.0421 "Remove and Dispose Bituminous Curb", 601.0200 "Class XX Portland Cement Concrete", 702.0543 "Granite Apron Stone 38" Standard 7.3.8", 905.0110 "Portland Cement Sidewalk Monolithic Standard 43.1.0", 906.0110 "Granit Curb, Quarry Split Straight, Standard 7.3.0", 906.0111 "Granite Curb, Quarry Split Circular, Standard 7.3.0", 906.0118 "6' Granite Transition Curb, Quarry Split Special Transition Standard 7.3.2", 906.0120 "Granite Wheelchair Ramp Curb Standards 7.3.3, 43.3.0 and 43.3.1", 906.0131 "Granite Ramp Stone Circular Standard 7.3.9", 906.0700 "Remove, Handle, Haul Trim Reset Curd Edging, Straight, Circular All Types", 942.0200 "Detectable Warning Panel Standard 48.1.0" and T11.0100 "Anchor Guy Assembly Constructed in Place" have been added.

17. Assembly Summary Pages 1 through 4

Remove Assembly Summary Pages 1 through 4 in their entirety and replace them with revised Pages 1 (R-1) through 4 (R-1) and insert new Page 5 attached to this Addendum No. 3. The Assembly Summary has been revised.



RI Department of Transportation

Administrator, Division of Project Management

submit to the Engineer for approval the breakdown of each lump sum bid item.

5. 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.

6. MILESTONE SCHEDULE DATE

The following interim completion and substantial completion dates have 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.

<u>Interim (Phase 2) Completion:</u>	December 9, 2022
<u>Substantial Completion:</u>	April 28, 2023

Refer to Special Provision Section 108.1000, “Prosecution and Progress” for the definition of the above dates and associated liquidated damages.

7. UTILITY, MUNICIPAL, AND BUSINESS 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 is anticipated and included in the construction of this project. Unless noted on the Plans, 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, 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 Contractor’s responsibility to ensure that all utility companies have been notified and all utilities have been marked

**CODE 108.1000
PROSECUTION AND PROGRESS**

In accordance with Section 108.08, Failure to Complete on Time, Para. a., Phased Completion, Interim Completion and Substantial Completion the following defines the Interim and Substantial Completion Dates and Associated Liquidated Damages:

Interim (Phase 2) Completion: December 9, 2022

All Contract work shall be completed for the Mohegan Bridge No. 673 including final pavement and pavement markings, and the complete removal of the temporary detour route signs and appurtenances. The bridge shall be fully open to traffic.

Liquidated Damages: \$2,350 per calendar day.

Substantial Completion: April 28, 2023

All Contract work shall be completed, as defined by Section 101.71.

3. Containment, control, transportation and legal off-site disposal of excavation materials from the Drilled shafts. All soil shall be disposed of in a licensed landfill facility in accordance with all Federal, State, and Local regulations. Drilling mud or excavated materials shall not be disposed of in Branch River nor on-site.
4. Contaminated soils, if encountered, shall be excavated, segregated from uncontaminated soils, managed on-site and disposed of in accordance with applicable State Standard Specifications, and with applicable Federal, State and local laws, regulations and ordinances and as directed by the Engineer. Similar management practices of potentially contaminated groundwater shall be performed by the Contractor if encountered.
5. Maintenance of a stable excavation during drilled shaft excavation and construction.
6. Supply, circulation, maintenance, and disposal of slurry or other drilling fluid in accordance with all applicable federal, state, and local laws, regulations, and ordinances.
7. Removal and legal off-site disposal of excess steel casing and concrete overpour or other irregularities which interfere with other structural elements, utilities, or other planned construction.
8. Furnishing and installing tubes for Crosshole Sonic Logging (CSL) in the Drilled shafts to verify proper shaft construction techniques, concrete consolidation, curing and placement and integrity of the concrete in the drilled shaft foundation, and to determine the extent and location of any defects or internal voids in the shaft interior, shaft perimeter integrity, transverse checks, soil intrusions, and weak concrete or grout. The Contractor is responsible for protection of CSL access tubes during all phases of shaft construction. Damaged or otherwise inaccessible/blocked access tubes must be corrected or replaced at the Contractor's expense, including required coring of the shaft to provide access for CSL logging. The Contractor's Professional Engineer will perform the CSL measurements. The Contractor shall provide assistance and access for the Engineer to the interior of the shaft so that the Engineer can obtain measurements safely. The CSL tubes shall be installed to align vertically.
9. If dewatering is required, the Contractor shall be responsible for all coordination with RIDOT, the RI Department of Environmental Management (RIDEM), all utility companies and municipal or other agencies, including agencies governing the discharge of water from dewatering operations. Any dewatering operations will be at no additional cost to the State.

- B. Submit for review, names and qualifications of the Contractor/Subcontractor's Professional Engineers and superintendents responsible for the Work specified. The submittal shall document, by resume and project lists, that the Contractor's Professional Engineers and superintendents each have a minimum of five (5) years experience for the work specified in this Section. Submitted resumes and project lists shall include a description of formal training and experience, including a general description of subsurface soil encountered, drilling equipment and list of a minimum of three (3) projects successfully drilled to the diameter range and depth required on this project in the last 5 years.
- C. Submit shop drawings in accordance with these Special Provisions. Submit materials data in accordance with the State Standard Specifications.
- D. Submit site plan including the method to access the site, proposed equipment laydown area, method to secure the area from unauthorized access, and method to temporarily support equipment. This plan will be subject to permit agency review and acceptance. The Contractor shall be aware of the governing permitting agencies stipulations and requirements prior to making their submittal. If requested by the permitting agencies, the Contractor shall modify their proposed methods at no additional cost to the project.

Submit a detailed description of work that shall at a minimum address each of the following items of work: Details of proposed equipment, methods and sequence of operations to be used to install casings, excavate soil and maintain a stable excavation, removal and disposal of obstructions within the limits of the shaft excavation, clean the shaft walls and bottom such that less than 3-inches of loose, soft material remains, monitor the diameter and plumbness of shafts, produce, maintain, mix, circulate and reclaim slurry to successfully maintain a clean bottom and to remove soil cuttings from the borehole, and install reinforcing steel without damaging the excavated sidewalls of the drilled shaft, place concrete by continuous tremie methods such that no defects or voids occur in the concrete column, use means and methods reviewed and approved by the Engineer to successfully separate the drill slurry from the concrete during tremie pours, and backfill. The submittal shall include provisions for protecting the existing bridge, adjacent residential structures and property, and area utilities during drilled shaft installation.

Submit the type of proposed access tubes and associated materials to prepare drilled shafts for CSL. Submit the type and installation of any jointing section to extend CSL tubes or instrumentation housings. Submit shop drawings detailing installation of materials. Submit procedures and shop drawings detailing proposed means of protecting and maintaining the specified spacing of CSL access tubes and instrumentation housings during drilled shaft installation. Particularly in the rock socket below the bottom of the reinforcing cage.

Quality Control

- A. Comply with all rules, regulations, laws and ordinances of the State of Rhode Island and Town of Burrillville, OSHA and of all other authorities having jurisdiction. All labor, materials, equipment and services necessary to make the work comply with such requirements shall be provided without additional cost to the State. Comply with all soil, rock and groundwater handling and disposal regulations for the State of Rhode Island, Rhode Island Department of Environmental Management, Town of Burrillville, and other agencies.
- B. Field Monitoring and Testing:
1. The Contractor's Professional Engineer will provide full-time monitoring and testing of Drilled shafts installation operations. The Contractor shall perform all work related to the installation of the shaft, in the presence of the Engineer.
 2. Following excavation and shaft bottom preparation, Contractor shall monitor the cleanliness of the shaft bottom, shaft verticality, and shaft diameter over the entire length of the shaft.
 3. The Contractor shall fully cooperate with the Engineer to facilitate obtaining and storing samples. The Contractor shall ensure a sufficient number of samples are on-hand to provide additional testing in the event initial concrete strength tests reveal less than the minimum required strength.
 4. The Contractor's Professional Engineer will perform on-site CSL testing and monitoring. The Contractor will provide and install tubing/casing for CSL testing as described on drawings. The Contractor shall assist the Engineer and provide access to shafts during testing.
- C. Approvals given by the Engineer shall not relieve the Contractor of their responsibility for performing the work in accordance with the Contract Documents, nor shall the approvals be construed to relieve the Contractor from full responsibility for the means and methods of construction and for safety on the construction site.

Crosshole Sonic Logging

- A. Access tubes for Crosshole Sonic Logging (CSL) shall be 2 inch ID, Schedule 40 steel pipe conforming to ASTM A53, Grade A or B Type E, F, or S. The access tubes shall extend the entire length of the shaft to the shaft tip (bottom of drilled shaft/rock socket), have a round, regular internal diameter free of defects and obstructions in the tube and at joints, in order to permit free, unobstructed passage of the source and receiver probes. The tubes shall be watertight and free from corrosion, with clean internal and external surfaces to ensure good bond between the concrete and tubes. The tubes shall be constructed with threaded steel caps at top and bottom ends. The tubes shall be vertical over their entire length. Additional reinforcing/carrier cage shall be provided to the bottom of the Drilled shafts to stabilize and position the access tubes.

Prior to CSL testing by the Contractor's Professional Engineer, the Contractor shall assure that the test probes can pass through every tube to the bottom. If a tube is obstructed, the Contractor shall, at the Contractor's expense, clear the tube by an acceptable means to allow passage of the probe the full length of the tube. If the tube cannot be cleared, the Contractor shall, at the Contractor's expense, core a hole within the shaft near the obstructed tube that is large enough to accommodate the probe for the full length of the drilled shafts.

Excavation Monitoring Devices

- A. Provide monitoring devices and qualified technicians for monitoring the following:
- Shaft Bottom Cleanliness – use the Shaft Inspection Device (SID) as manufactured by GPE, Inc. of Gainesville, Florida or approved equivalent.
- Shaft Verticality measurement device - Provide equipment and a qualified technician for monitoring the dimensions and verticality of drilled shaft excavations. At a minimum, measurements shall be made utilizing equipment attached to the top of the drill rig (Kelly bar).
- Shaft Diameter measurement device- Provide equipment and a qualified technician for monitoring the dimensions of drilled shaft excavations. Provide sonic caliper technology or approved equivalent.

CONSTRUCTION METHODS

Slurry

- A. Use equipment that produces a stable suspension and provides mechanical agitation. Transport slurry by means of a temporary pipeline between tank locations and the Drilled shafts.

- D. The Contractor shall be responsible for correcting the Drilled shafts by approved methods if not constructed within the specified tolerances, if required by the Engineer. Remedial measures, including engineering analysis and redesign, to correct for out-of-tolerance Drilled shafts construction, shall be performed at no additional cost to the State.

Installation of Casing

- A. Permanent casing shall be required on all drilled shafts.
- B. Permanent casing shall be continuously joined.
- C. The Contractor shall advance the permanent surface casing and seat in bedrock. The sidewalls of the shaft shall be stabilized by slurry, or by steel casing, or by placement and redrilling of concrete fill, or other means, as selected and implemented by the Contractor after review and approval by the Engineer.

Installation Requirements for Crosshole Sonic Logging

- A. Preparation of Crosshole Sonic Logging (CSL) Access Tubes: The access tubes shall be installed as specified and as shown on the approved shop drawings. The tubes shall be securely fastened at 3-foot intervals to the interior of the reinforcement cage in a parallel manner. Immediately after concrete placement of the Drilled shafts, the tubes shall be filled with clean water and capped. Damaged or blocked tubes must be repaired or replaced (by coring) by the Contractor at no additional cost to the State.
- B. The access tubes shall be installed in the Drilled shafts in a regular, vertical, symmetric pattern such that the tube spacing in degrees will correspond to the following criteria:

<u>Shaft Diameter</u>	<u>Number of Tubes</u>	<u>Tube Spacing</u>
3 Ft	4	90°

- C. The spacing between the centerline of adjacent tubes shall be recorded at the third points of the reinforcing cage. Measurements shall be recorded to an accuracy of 0.25 inch. Measurements shall be provided to the Engineer prior to placement of the steel reinforcing cage in the shaft.

Acceptance and Rejection of Drilled Shafts

- A. In addition to other Contract acceptance criteria, the drilled shafts shall be accepted for payment only after the CSL tests and the results of concrete tests provide verification of the structural integrity of the Drilled shafts, as approved by the Engineer. If the CSL record is complex or inconclusive, coreholes shall be drilled in the drilled shaft. When a defect is confirmed by coring of the concrete, the Contractor shall be responsible for the cost of coring and subsequent grouting of the defect and the corehole. However, if no defects are found, the State will pay for all respective coring costs, including pressure grouting of the coreholes. The Engineer will be the sole judge of drilled shaft acceptance or rejection.
- B. In the case that the Drilled shafts are determined by the Engineer to be unacceptable, the Contractor shall submit a plan for remedial action to the Engineer for review. Calculations and working drawings for the remedial action plan shall be stamped by a Registered Professional Civil Engineer currently registered in good standing in the State of Rhode Island. Design, labor and materials necessary to perform the remediation shall be furnished without additional cost to the State and without an extension of the contract time.
- C. Following final acceptance of the Drilled shafts by the Engineer, the Contractor shall tremie grout the CSL access tubes with minimum 5000 psi cement grout.

Pre-Excavation

- A. Comply with the State Standard Specifications in Sections 202 and 203 where pre-excavation is required to remove surface obstructions, as directed by the Engineer, or elected by the Contractor, in order to clear obstructions prior to drilled shaft excavation.

Obstruction Removal

- A. Use all means and methods to remove, bypass, and/or demolish obstructions to allow installation of the Drilled shafts to the design depth and location shown on the Contract Drawings.
- B. Refer to previous portions of this specification for definition of obstructions.

METHOD OF MEASUREMENT

“ITEM CODE 841.9901 DRILLED SHAFT – FURNISH AND INSTALL” will be measured for payment by the total length in place from the accepted drilled shaft rock socket tip elevation to the top of permanent casing measured by the linear foot, permanently

remaining in place, inspected and accepted in accordance with the Contract Documents and/or as directed by the Engineer.

“ITEM CODE 841.9902 DRILLED SHAFT - OBSTRUCTION REMOVAL” will be measured for payment by the hour of obstruction removal to the nearest 5 minutes as described below:

Measurement of elapsed time for obstruction drilling will begin at the larger of the following rates of advance: 1.) when the rate of advance of the drilled shaft excavation using customary soil excavation tools and equipment has slowed to less than 10 percent of the average measured and computed rate of advance for the same soil strata encountered at the site or 2) the rate of advance has decreased to less than 0.5 ft in one hour. The time spent drilling obstructions will not be included in the determination of the average rate of advance in the strata. Time for mobilizing equipment or drill bits to the obstructed drilled shaft location will not be measured for payment.

Measurement of elapsed time for obstruction drilling will end when the rate of advance exceeds 20 percent of the average rate of advance in the strata.

BASIS OF PAYMENT

General

The total cost for all changes required because of the Drilled Shafts not installed in accordance with these Special Provisions, defective construction or equipment deficiencies shall be borne solely by the Contractor at no additional cost to the State. These costs shall include costs for engineering, mobilization and demobilization, set-up, equipment, labor and materials, and for the Engineer’s additional services made necessary (as determined by the Engineer), caused by installation of the Drilled Shafts not installed in accordance with these Special Provisions.

The accepted quantity of “ITEM CODE 841.9901 DRILLED SHAFT – FURNISH AND INSTALL” will be paid for at its 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, tools, and equipment and all other incidentals required to complete the work as described in these Special Provisions and elsewhere in the Contract Documents, complete in place and accepted by the Engineer. The price so stated shall include transportation, processing and legal off-site disposal of excavated materials in a licensed landfill facility in accordance with all Federal, State, and Local regulations.

The accepted quantity of “ITEM CODE 841.9902 DRILLED SHAFT - OBSTRUCTION REMOVAL” will be paid for at its respective contract unit price per hour for time exceeding one hour of actual drilling time per incident. For the initial hour of obstruction removal, obstruction removal time will be defined as only drilling time expended in the

**CODE 938.1000
PRICE ADJUSTMENTS****DESCRIPTION:**

a. Liquid Asphalt Cement. The Base Price of Liquid Asphalt Cement as required to implement **Subsection 938.03.1** of the Standard Specifications is \$552.50 per ton as of 3/9/2020.

b. Diesel Fuel. The Base Price of Diesel Fuel as required to implement **Subsection 938.03.2** of the Standard Specifications is \$1.4975 per gallon as of 3/9/2020.

c. Steel. The Base Prices of Steel (effective January 2020) as required to implement **Subsection 938.03.3** of the Standard Specifications are as listed in the following table:

03-09-2020

January 2020 Structural Steel & Rebar Base Prices for Contracts

Note 1: This list goes into effect January 1, 2020 and will remain in effect until revised.

Note 2: This list supersedes and replaces any earlier list.

Note 3: This list is based on the January 2020 Worksheet.

ITEM NO.	DESCRIPTION	January 2019 PRICE PER POUND	January 2019 PRICE PER KILOGRAM
1	ASTM A615/A615M Grade 60 (AASHTO M31 Grade 420) Reinforcing Steel	\$ 0.34	\$ 0.75
2	ASTM A27 (AASHTO M103) Steel Castings, H-Pile Points & Pipe Pile Shoes (See Note (1) below.)	\$ 0.46	\$ 1.02
3	ASTM A668 / A668M (AASHTO M102) Steel Forgings	\$ 0.46	\$ 1.02
4	ASTM A108 (AASHTO M169) Steel Forgings for Shear Studs	\$ 0.52	\$ 1.14
5	ASTM A709/A709M Grade 36 / AASHTO M270MM270 Grade 250 Structural Steel Plate	\$ 0.56	\$ 1.23
6	ASTM A709/A709M Grade 36 / AASHTO M270MM270 Grade 250 Structural Steel Shapes	\$ 0.40	\$ 0.88
7	ASTM A709/A709M Grade 50 / AASHTO M270MM270 Grade 345 Structural Steel Plate	\$ 0.49	\$ 1.09
8	ASTM A709/A709M Grade 50 / AASHTO M270MM270 Grade 345 Structural Steel Shapes	\$ 0.40	\$ 0.88
9	ASTM A709/A709M Grade 50WT / AASHTO M270MM270 Grade 345WT Structural Steel Plate	\$ 0.58	\$ 1.28
10	ASTM A709/A709M Grade 50WT / AASHTO M270MM270 Grade 345WT Structural Steel Shapes	\$ 0.44	\$ 0.97
11	ASTM A709/A709M Grade 50W / AASHTO M270MM270 Grade 345W Structural Steel Plate	\$ 0.53	\$ 1.16
12	ASTM A709/A709M Grade 50W / AASHTO M270MM270 Grade 345W Structural Steel Shapes	\$ 0.41	\$ 0.90
13	ASTM A709/A709M Grade HPS 50W / AASHTO M270MM270 Grade HPS 345W Structural Steel Plate	\$ 0.59	\$ 1.31
14	ASTM A709/A709M Grade HPS 70W / AASHTO M270MM270 Grade HPS 485W Structural Steel Plate	\$ 0.63	\$ 1.38
15	ASTM A514/A514M-05 Grade HPS 100W / AASHTO M270MM270 Grade HPS 690W Structural Steel Plate	\$ 0.96	\$ 2.11
16	ASTM A276 Type 316 Stainless Steel	\$ 2.84	\$ 6.27
17	ASTM A240 Type 316 Stainless Steel	\$ 2.84	\$ 6.27
18	ASTM A148 Grade 80/50 Steel Castings (See Note (1) below.)	\$ 0.99	\$ 2.17
19	AASHTO M270MM270 Grade 345W Structural Steel Plate - same as Item #11.	Same as Item #11.	
20	AASHTO M270MM270 Grade HPS 345W Structural Steel Plate - same as Item #13.	Same as Item #13.	
21	AASHTO M270MM270 Grade 250 Structural Steel Plate - same as Item #5.	Same as Item #5.	
22	ASTM A53 Grade B Structural Steel Pipe	\$ 0.63	\$ 1.39
23	ASTM A500 Grades A, B, 36 & 50 Structural Steel Pipe	\$ 0.63	\$ 1.39
24	ASTM A252, Grades 240 (36 KSI) & 414 (60 KSI) Pipe Pile	\$ 0.49	\$ 1.08
25	ASTM 252, Grade 2 Permanent Steel Casing	\$ 0.57	\$ 1.25
26	ASTM A36 (AASHTO M183) H-piles, steel supports and sign supports	\$ 0.49	\$ 1.09
27	ASTM A328 / A328M, Grade 50 (AASHTO M202) Steel Sheeting	\$ 1.09	\$ 2.39
28	ASTM A572 / A572M, Grade 50 Sheetpiling	\$ 1.08	\$ 2.38
29	ASTM A36/36M, Grade 50	\$ 0.64	\$ 1.40
30	ASTM A570, Grade 50	\$ 0.63	\$ 1.39
31	ASTM A572 (AASHTO M223), Grade 50 H-Piles	\$ 0.47	\$ 1.03
32	ASTM A1085 Grade A (50 KSI) Steel Hollow Structural Sections (HSS), heat-treated per ASTM A1085 Supplement S1	\$ 0.74	\$ 1.63

NOTES:

(1) Steel Castings are generally used only on moveable bridges. Cast iron frames, grates and pipe are not "steel" castings and will not be considered for price adjustments.

JOB SPECIFIC LEGEND

- (19.6.0) TRAFFIC DETECTORS – LOOP STD. 19.6.0
- (20.1.0) PAVEMENT MARKING ARROW STD. 20.1.0
- (26.1.0) FLUORESCENT TRAFFIC CONES STD. 26.1.0
- (34.1.0M) GUARDRAIL STEEL BEAM SINGLE FACE EARTH AND ASPHALT 2'–7" HEIGHT
- (40.2.0S) SEWER MANHOLE (TOWN OF BURRILLVILLE)
- (6.2.0S) SANITARY MANHOLE FRAM & COVER (TOWN OF BURRILLVILLE)
- (BRB–N) BIORETENTION BASIN 'NORTH'
- (BRB–S) BIORETENTION BASIN 'SOUTH'
- (CFS) 12" COMPOST FILTER SOCK
- (CO) UNDERDRAIN CLEANOUT
- (CW) EPOXY RESIN CROSSWALK LINES STD. 20.3.0
- (FB–N) SEDIMENT FOREBAY 'NORTH'
- (FB–S) SEDIMENT FOREBAY 'SOUTH'
- (GRCB) STEEL THRIE BEAM BRIDGE CONNECTION (CODE 901.0185) – SEE BRIDGE PLAN FOR DETAIL
- (GR–B) GUARDRAIL END TREATMENT–MASH COMPLIANT TEST LEVEL 2 (CODE 901.9903)
- (M) PLACEMENT OF MILLINGS BENEATH GUARDRAIL
- (MCB) MODIFY CATCH BASIN STRUCTURE
- (NUP) NEW UTILITY POLE (BY OTHERS)
- (R&R) REMOVE & RESET
- (P–1) 2" MODIFIED CLASS 12.5 HMA SURFACE COURSE
7" CLASS 19 HMA BASE COURSE (TWO–3.5" LIFTS) MEET EXISTING PAVEMENT DEPTH
12" GRAVEL BORROW SUBBASE COURSE
- (P) 2" REMOVING BITUMINOUS PAVEMENT BY MICRO MILLING
2" MODIFIED CLASS 12.5 HMA SURFACE COURSE
- (S–1) CUTTING AND MATCHING ASPHALT RI STD 47.1.0
- (S–3) FULL DEPTH SAWCUT OF BITUMINOUS PAVEMENT
- (SABM) SHOCK ABSORBING BARRIER MODULES
- (SICB) SACK INSERT CATCH BASIN INLET PROTECTION
- (T4DY) 4" DOUBLE YELLOW INTERIM EPOXY RESIN PAVEMENT MARKING
- (T6W) 6" WHITE INTERIM EPOXY RESIN PAVEMENT MARKING
- (T6Y) 6" YELLOW INTERIM EPOXY RESIN PAVEMENT MARKING
- (T12W) 12" WHITE INTERIM EPOXY RESIN PAVEMENT MARKING
- (TBTL3) TEMPORARY BARRIER (TL–3)
- (TUP) TEMPORARY UTILITY POLE (BY OTHERS)
- (WCRA) WHEELCHAIR RAMP STD. 43.3.0 WITH TRANSITION CURB STD. 7.3.2, TRANSITION CURB STD. 7.3.3,
RAMP STONE STD. 7.3.9 AND DETECTABLE WARNING SYSTEM STD. 48.1.0.

JOB SPECIFIC RHODE ISLAND STANDARD DETAILS

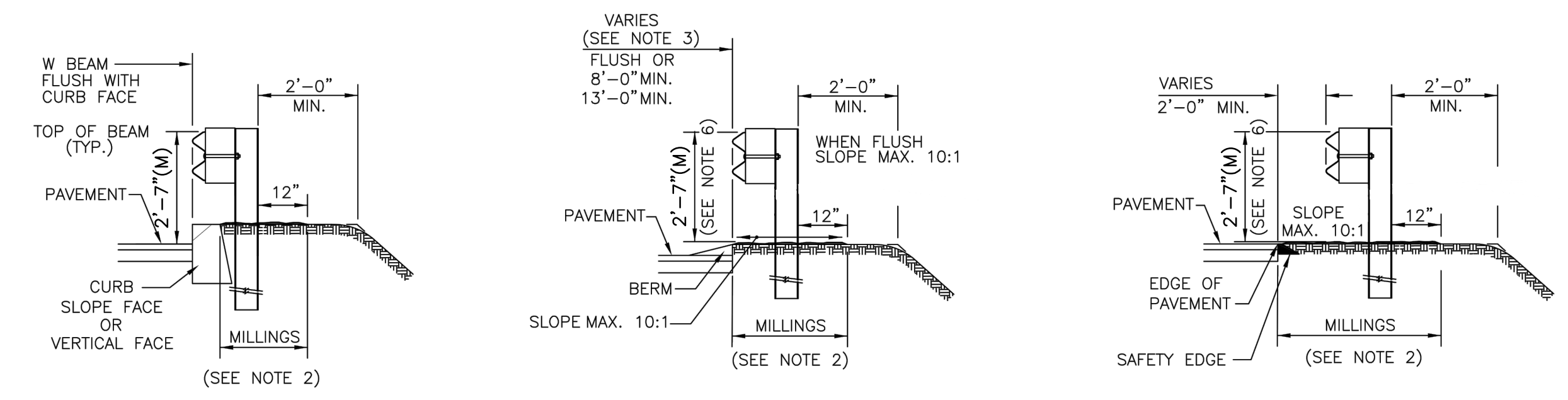
- (8.3.0) RIP–RAP DITCH
18" DUMPED STONE RIP–RAP R–4
6" BEDDING FOR RIP–RAP FS–1
- (8.4.0) PAVED WATERWAY
3" CLASS 9.5 HMA
6" GRAVEL BORROW SUBBASE COURSE

JOB SPECIFIC GENERAL NOTES:

1. ALL SURVEY FIELDBOOKS AND ELECTRONIC DATA SHALL BE SUBMITTED TO THE RIDOT SURVEY SECTION UPON COMPLETION OF PROJECT ALSO TO INCLUDE A LISTING OF ALL RI HIGHWAY BOUND DATA WITH STATIONS, OFFSETS AND COORDINATES.
2. ALL EXISTING DRAINAGE STRUCTURES TO REMAIN SHALL BE CLEANED AND INSPECTED AT THE BEGINNING OF THE WORK. ANY NECESSARY REPAIRS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
3. THE DRAINAGE SYSTEM SHALL BE INSPECTED AND CLEANED, AS REQUIRED, PRIOR TO ACCEPTANCE OF THE OVERALL PROJECT. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS PROVISION; IT SHALL BE CONSIDERED INCIDENTAL TO OTHER ITEMS OF WORK IN ACCORDANCE WITH SUBSECTION 104.11 OF THE STANDARD SPECIFICATIONS.
4. NO EQUIPMENT (SCAFFOLDING, ETC.) SHALL BE PLACED IN ANY WETLAND OR WATERWAY DURING CONSTRUCTION.

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. FINAL PAVEMENT MARKINGS SHALL BE WHITE AND YELLOW EPOXY RESIN.
3. SEE THE GENERAL PROVISIONS – CONTRACT SPECIFIC DOCUMENTS FOR SPECIAL REQUIREMENTS FOR PAVEMENT MARKINGS.



- NOTES:**
1. SHALL BE IN ACCORDANCE WITH SECTIONS 901, 902 OF THE RI STANDARD SPECIFICATIONS.
 2. SHALL BE IN ACCORDANCE WITH SECTION 213 OF THE RI STANDARD SPECIFICATIONS.
 3. SETBACK FROM CURB FACE OR BERM AS SPECIFIED ON PLANS, 8' LESS THAN 40 MPH; 13' LESS THAN 50 MPH.
 4. W-BEAM POSTS W6X9 STANDARD 72 INCHES OR AS SPECIFIED ON PLANS.
 5. THRIE BEAM POSTS W6X9 STANDARD 81 INCHES OR AS SPECIFIED ON PLANS.
 6. TOP OF RAIL HEIGHT MEASURED FROM 10:1 SURFACE.
 7. ADJUST THE HEIGHT TO MEET EXISTING GUARDRAIL AT A RATE OF 10.58 FEET/ONE INCH VERTICAL DIFFERENCE.

(34.1.0M) ROADSIDE GUARDRAIL INSTALLATION (MODIFIED)
NOT TO SCALE

REVISIONS		
NO.	DATE	BY
1	3/27/20	EK

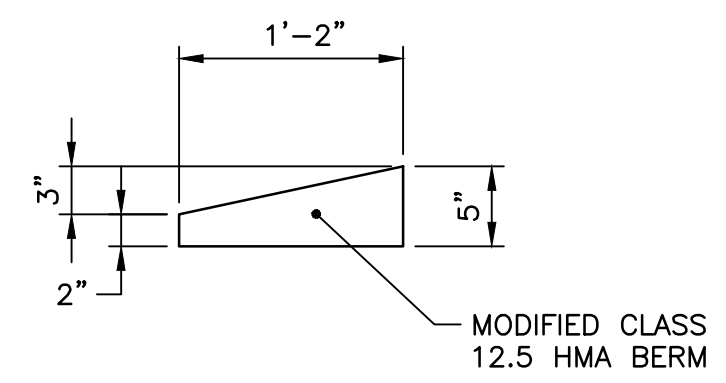
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

BRIDGE REPLACEMENT
MOHEGAN BRIDGE
BRIDGE No. 673 (43A)
BURRILLVILLE, RHODE ISLAND

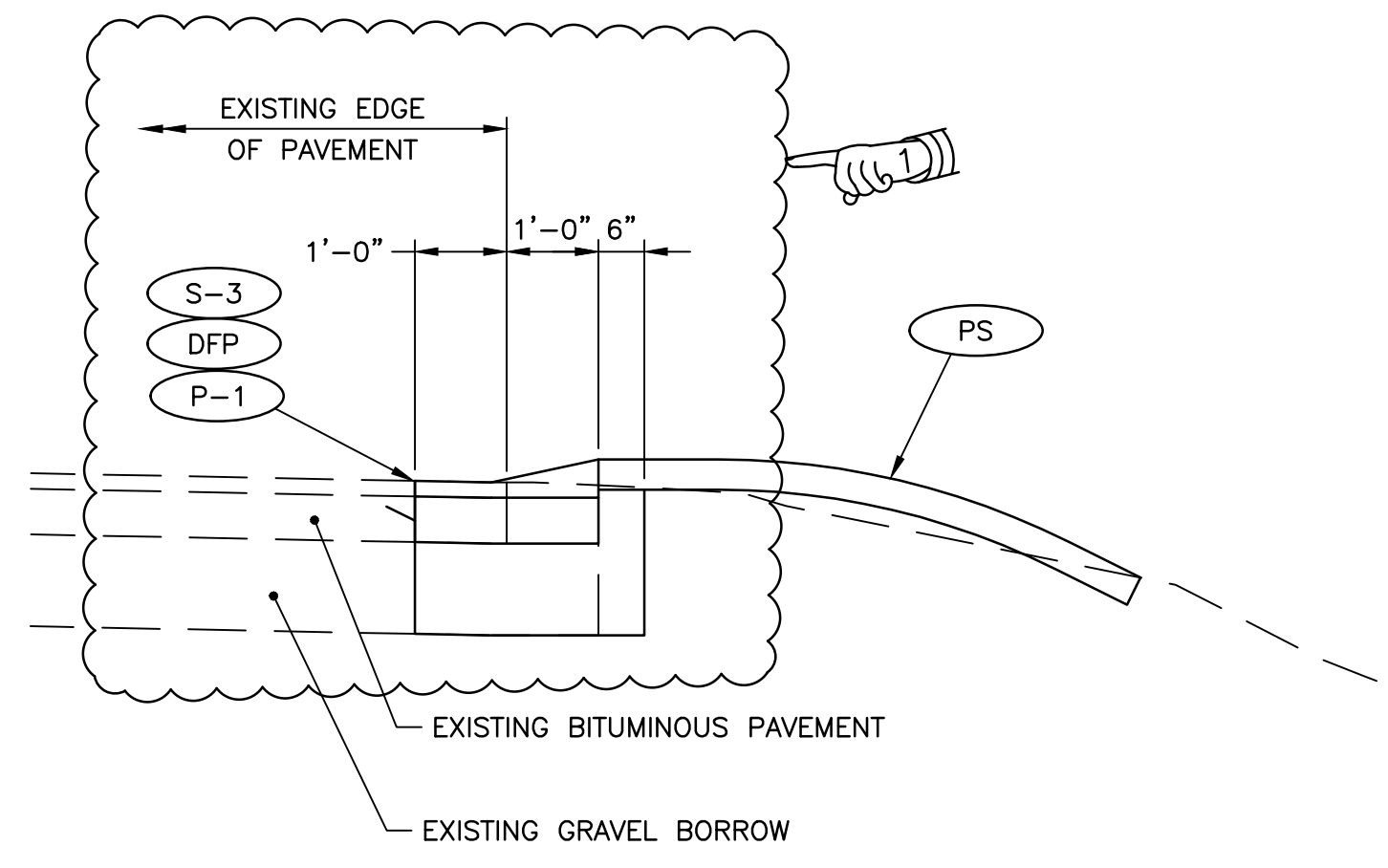
JOB SPECIFIC
PLAN SYMBOLS, LEGEND AND NOTES

CHECKED BY _____ DATE _____ SCALE NO SCALE

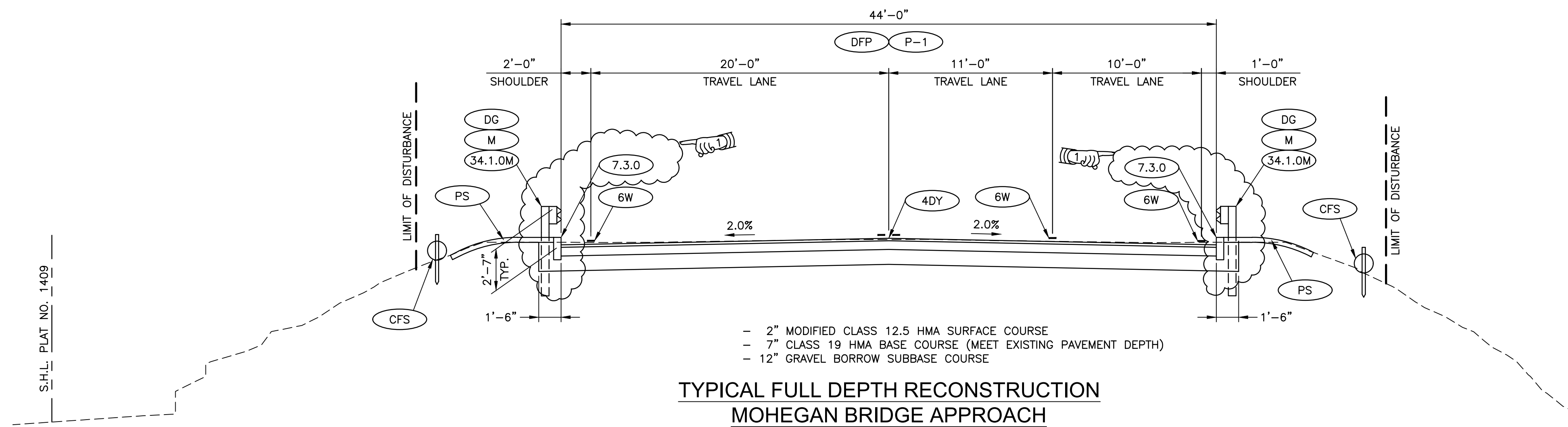




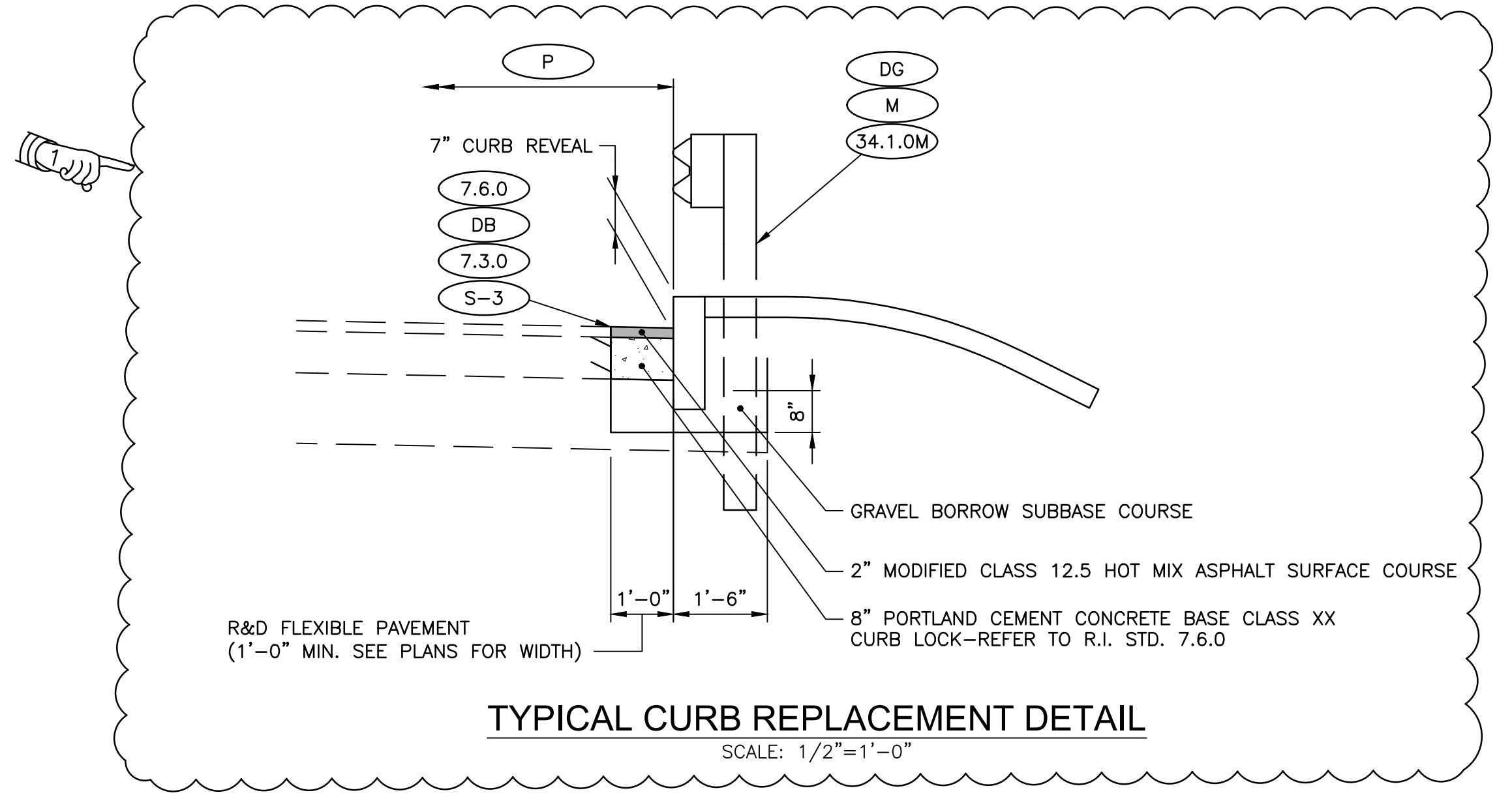
BERM DETAIL
SCALE: 1"=1'-0"



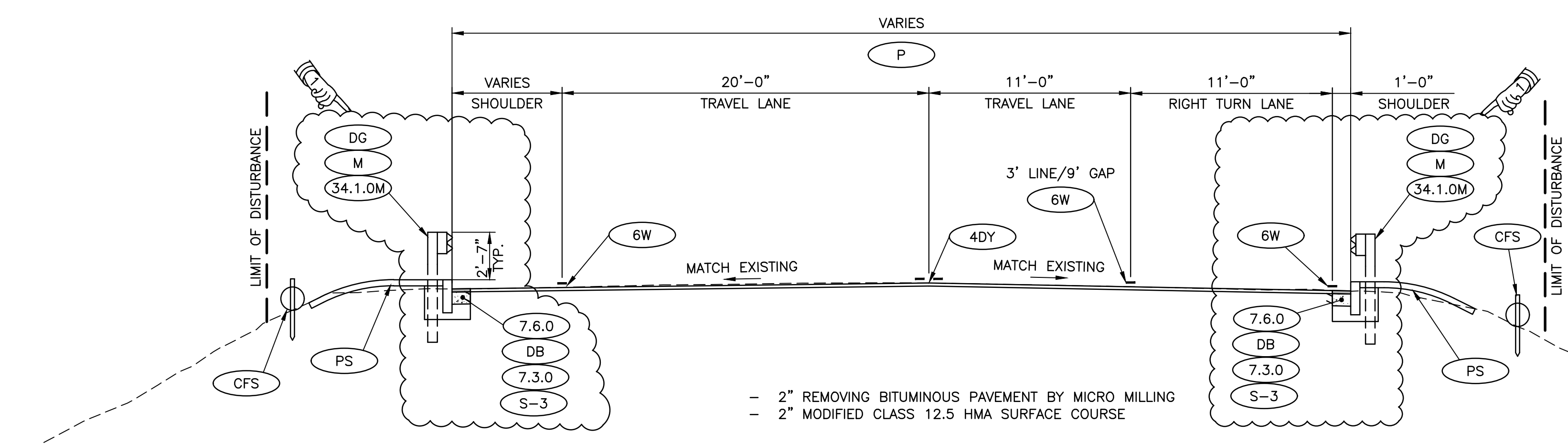
BITUMINOUS BERM STD. 7.5.1A
STA 268+25 TO STA 270+95
SCALE: 1/2"=1'-0"



TYPICAL FULL DEPTH RECONSTRUCTION
MOHEGAN BRIDGE APPROACH
STA. 263+40 TO STA. 264+20
STA. 266+46 TO 267+00
SCALE: 1"=5'-0"



TYPICAL CURB REPLACEMENT DETAIL
SCALE: 1/2"=1'-0"



TYPICAL PAVEMENT MICRO MILLING AND OVERLAY
MOHEGAN BRIDGE
STA 262+50 TO STA 263+40
STA. 267+00 TO 268+25
SCALE: 1"=5'-0"

REVISIONS		
NO.	DATE	BY
1	3/24/20	NS

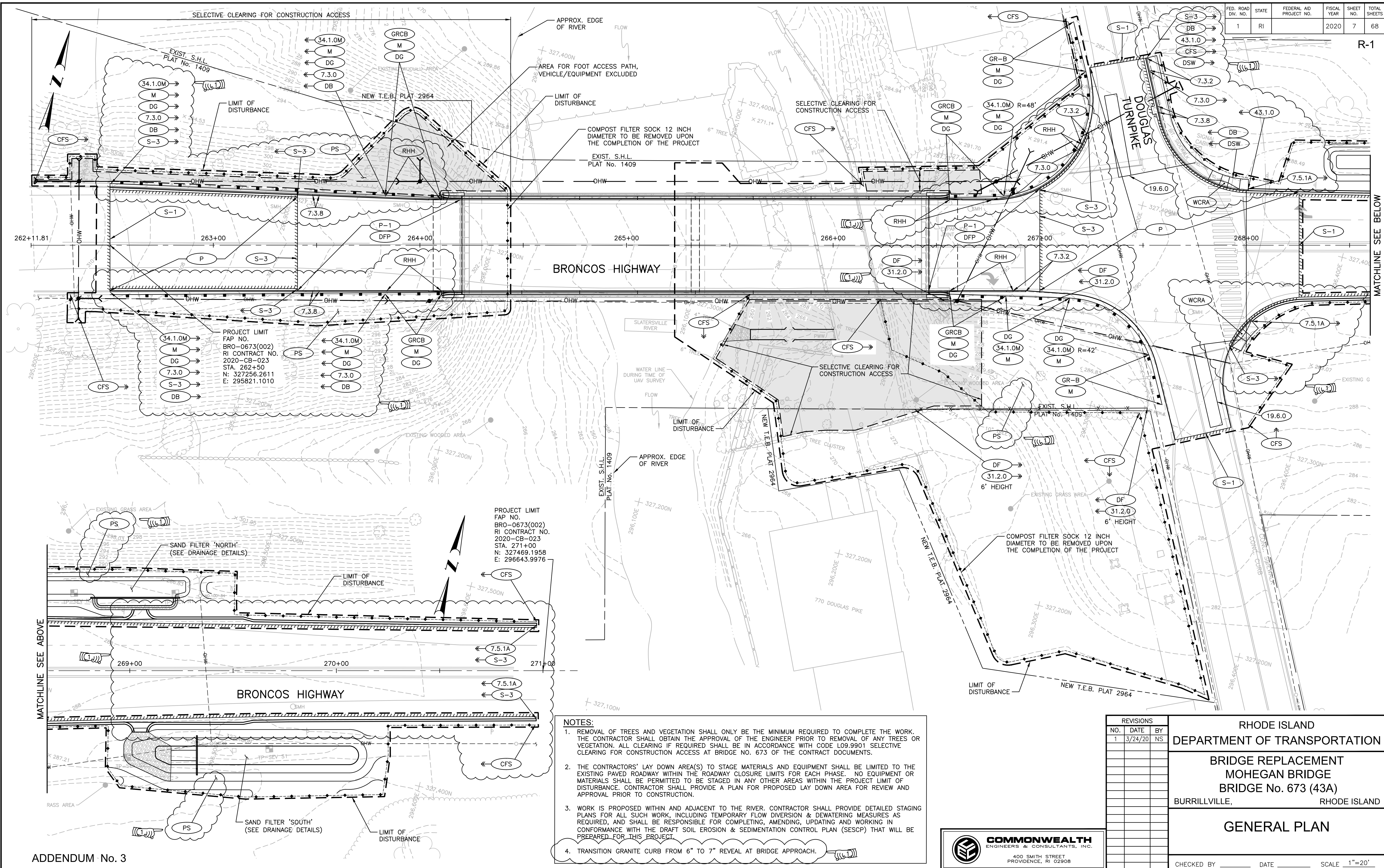
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

BRIDGE REPLACEMENT
MOHEGAN BRIDGE
BRIDGE No. 673 (43A)
BURRILLVILLE, RHODE ISLAND

TYPICAL SECTIONS

CHECKED BY _____ DATE _____ SCALE 1" = 5'

COMMONWEALTH
ENGINEERS & CONSULTANTS, INC.
400 SMITH STREET
PROVIDENCE, RI 02908



PROJECT LIMIT
FAP NO.
BRO-0673(002)
RI CONTRACT NO.
2020-CB-023
STA. 262+50
N: 327256.2611
E: 295821.1010

PROJECT LIMIT
FAP NO.
BRO-0673(002)
RI CONTRACT NO.
2020-CB-023
STA. 271+00
N: 327469.1958
E: 296643.9976

- NOTES:**
- REMOVAL OF TREES AND VEGETATION SHALL ONLY BE THE MINIMUM REQUIRED TO COMPLETE THE WORK. THE CONTRACTOR SHALL OBTAIN THE APPROVAL OF THE ENGINEER PRIOR TO REMOVAL OF ANY TREES OR VEGETATION. ALL CLEARING IF REQUIRED SHALL BE IN ACCORDANCE WITH CODE L09.9901 SELECTIVE CLEARING FOR CONSTRUCTION ACCESS AT BRIDGE NO. 673 OF THE CONTRACT DOCUMENTS.
 - THE CONTRACTORS' LAY DOWN AREA(S) TO STAGE MATERIALS AND EQUIPMENT SHALL BE LIMITED TO THE EXISTING PAVED ROADWAY WITHIN THE ROADWAY CLOSURE LIMITS FOR EACH PHASE. NO EQUIPMENT OR MATERIALS SHALL BE STAGED IN ANY OTHER AREAS WITHIN THE PROJECT LIMIT OF DISTURBANCE. CONTRACTOR SHALL PROVIDE A PLAN FOR PROPOSED LAY DOWN AREA FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
 - WORK IS PROPOSED WITHIN AND ADJACENT TO THE RIVER. CONTRACTOR SHALL PROVIDE DETAILED STAGING PLANS FOR ALL SUCH WORK, INCLUDING TEMPORARY FLOW DIVERSION & DEWATERING MEASURES AS REQUIRED, AND SHALL BE RESPONSIBLE FOR COMPLETING, AMENDING, UPDATING AND WORKING IN CONFORMANCE WITH THE DRAFT SOIL EROSION & SEDIMENTATION CONTROL PLAN (SESCP) THAT WILL BE PREPARED FOR THIS PROJECT.
 - TRANSITION GRANITE CURB FROM 6" TO 7" REVEAL AT BRIDGE APPROACH.

ADDENDUM No. 3



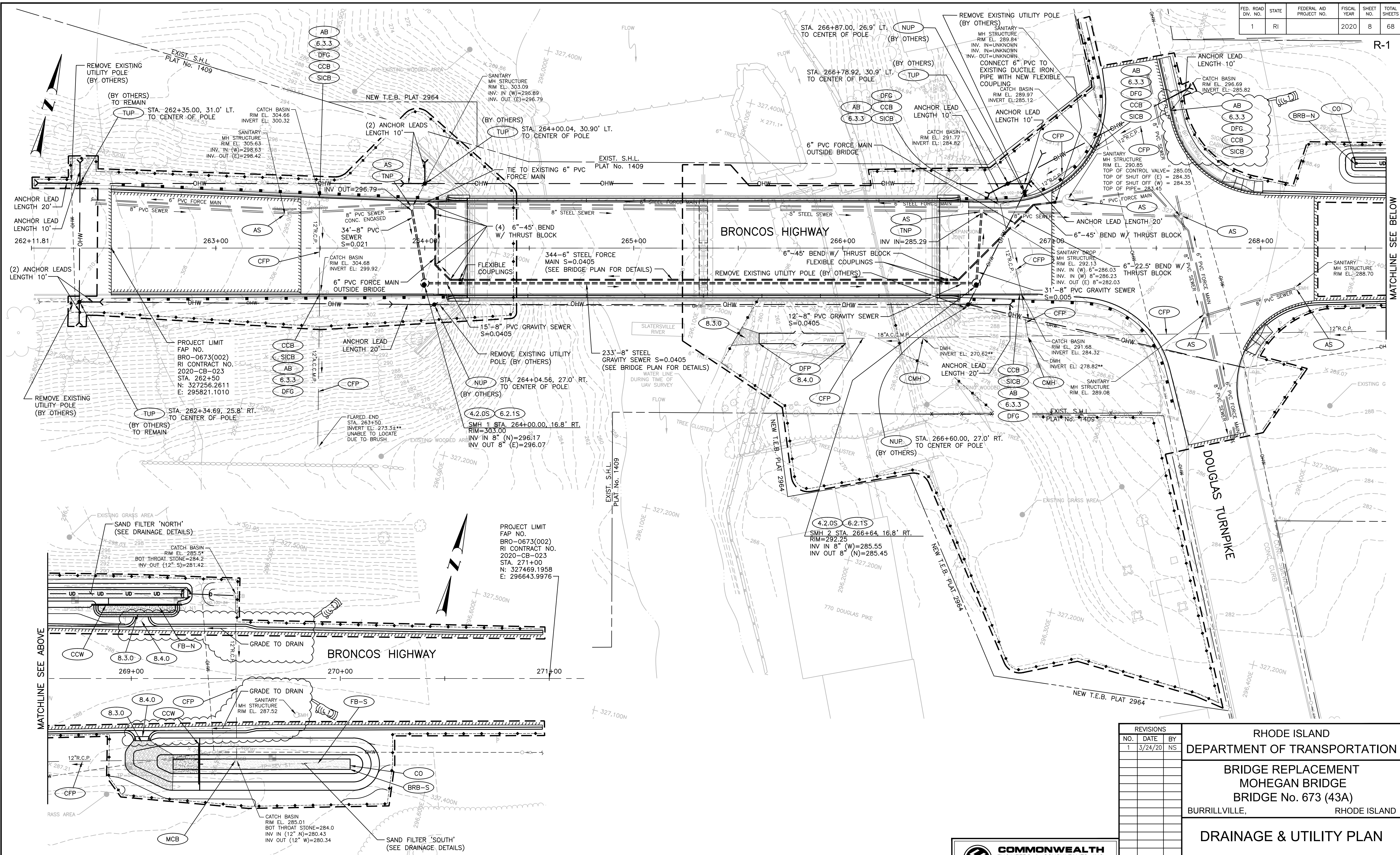
REVISIONS		
NO.	DATE	BY
1	3/24/20	NS

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

**BRIDGE REPLACEMENT
MOHEGAN BRIDGE
BRIDGE No. 673 (43A)**
BURRILLVILLE, RHODE ISLAND

GENERAL PLAN

CHECKED BY _____ DATE _____ SCALE 1"=20'



PROJECT LIMIT
 FAP NO. BRO-0673(002)
 RI CONTRACT NO. 2020-CB-023
 STA. 262+50
 N: 327256.2611
 E: 295821.1010

PROJECT LIMIT
 FAP NO. BRO-0673(002)
 RI CONTRACT NO. 2020-CB-023
 STA. 271+00
 N: 327469.1958
 E: 296643.9976

MATCHLINE SEE ABOVE

MATCHLINE SEE BELOW

ADDENDUM No. 3

REVISIONS		
NO.	DATE	BY
1	3/24/20	NS

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

**BRIDGE REPLACEMENT
 MOHEGAN BRIDGE
 BRIDGE No. 673 (43A)**

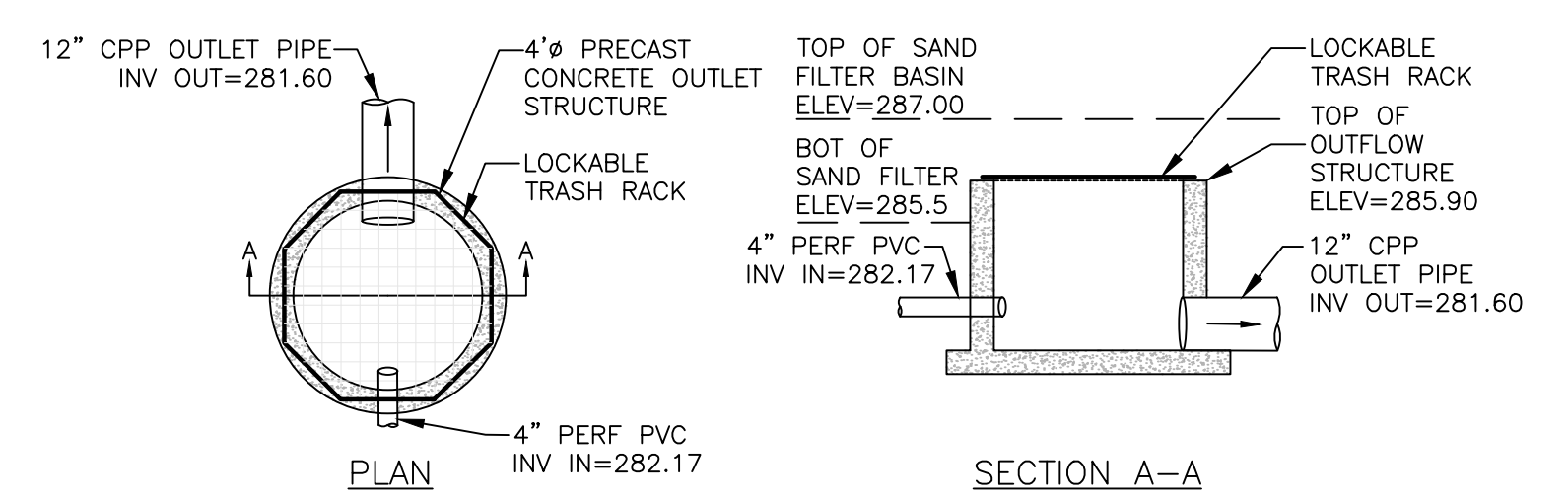
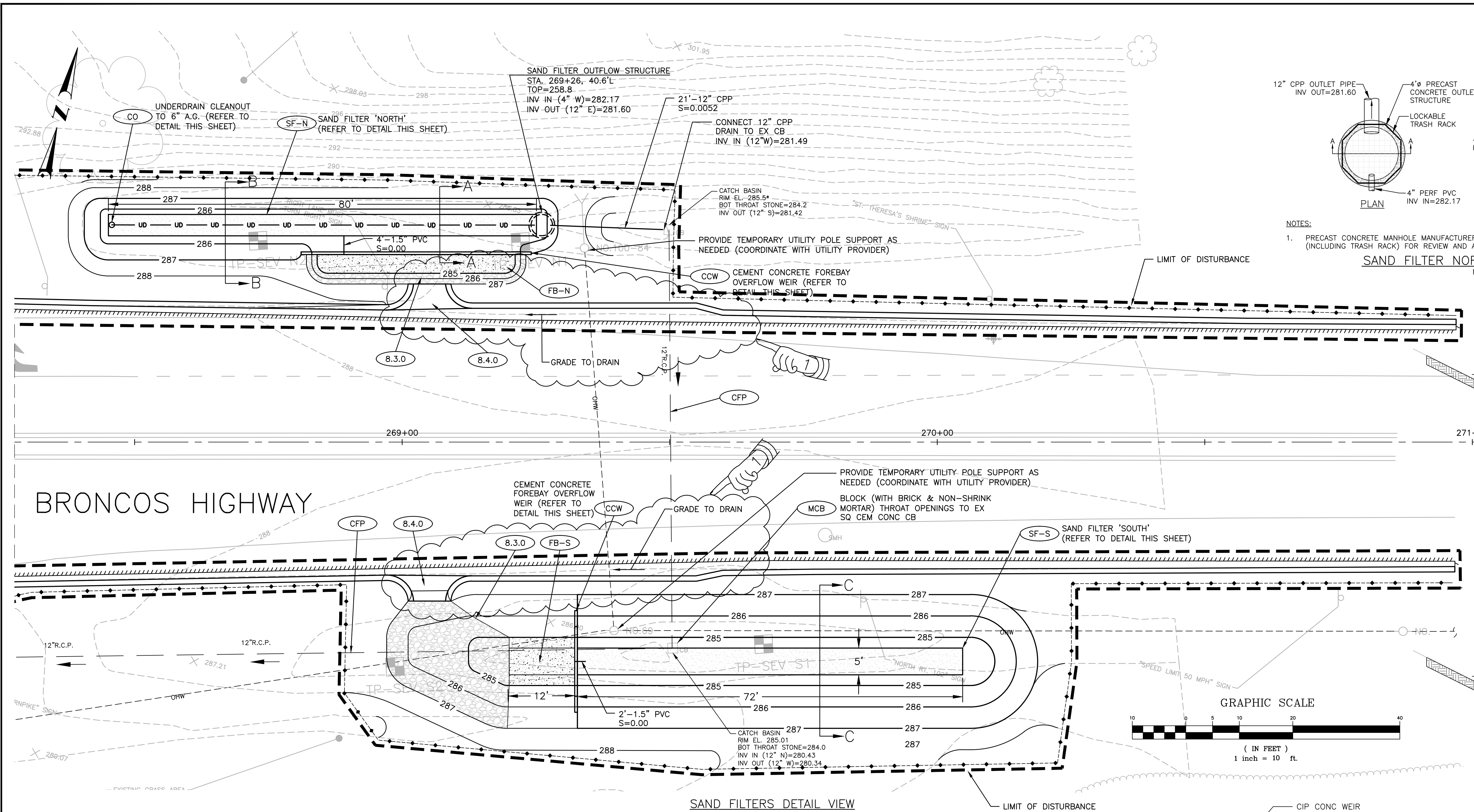
BURRILLVILLE, RHODE ISLAND

DRAINAGE & UTILITY PLAN

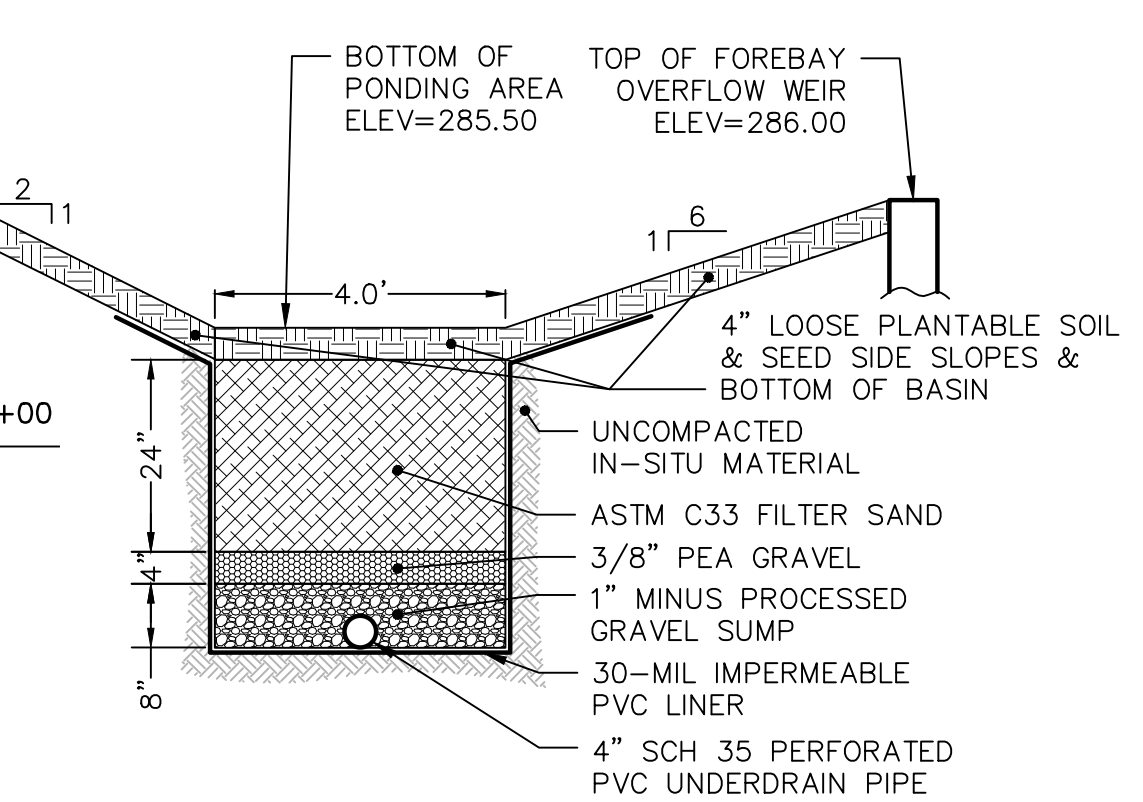
CHECKED BY _____ DATE _____ SCALE 1"=20'



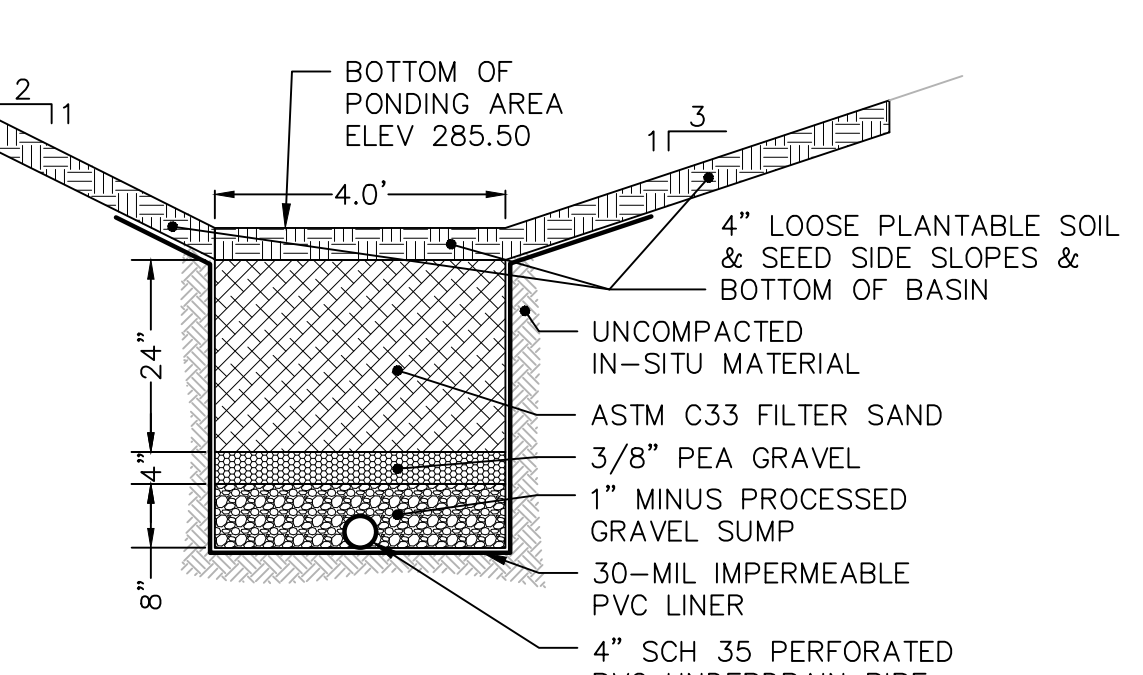
P:\160001600200 Bridge Group - C&A - Mohegan11 Drawings\Transportation - Common\Drawings\2601A_V1_008_DRAINUTL001_302020.dwg, 3/20/2020, 4:16:11 PM, RMM



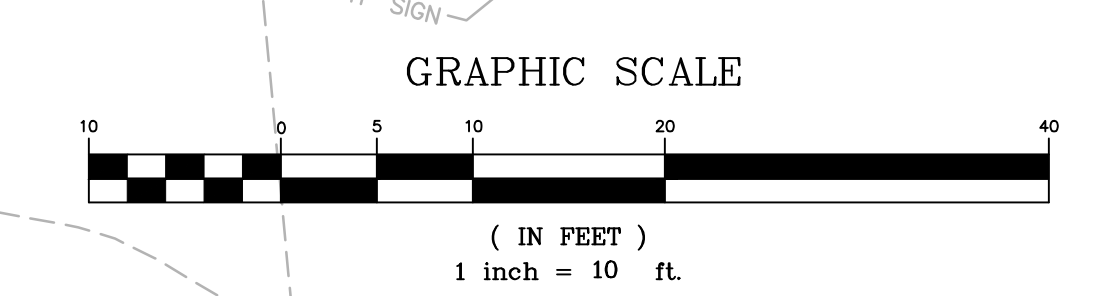
NOTES:
 1. PRECAST CONCRETE MANHOLE MANUFACTURER SHALL SUBMIT SHOP DRAWING OF STRUCTURE (INCLUDING TRASH RACK) FOR REVIEW AND APPROVAL.



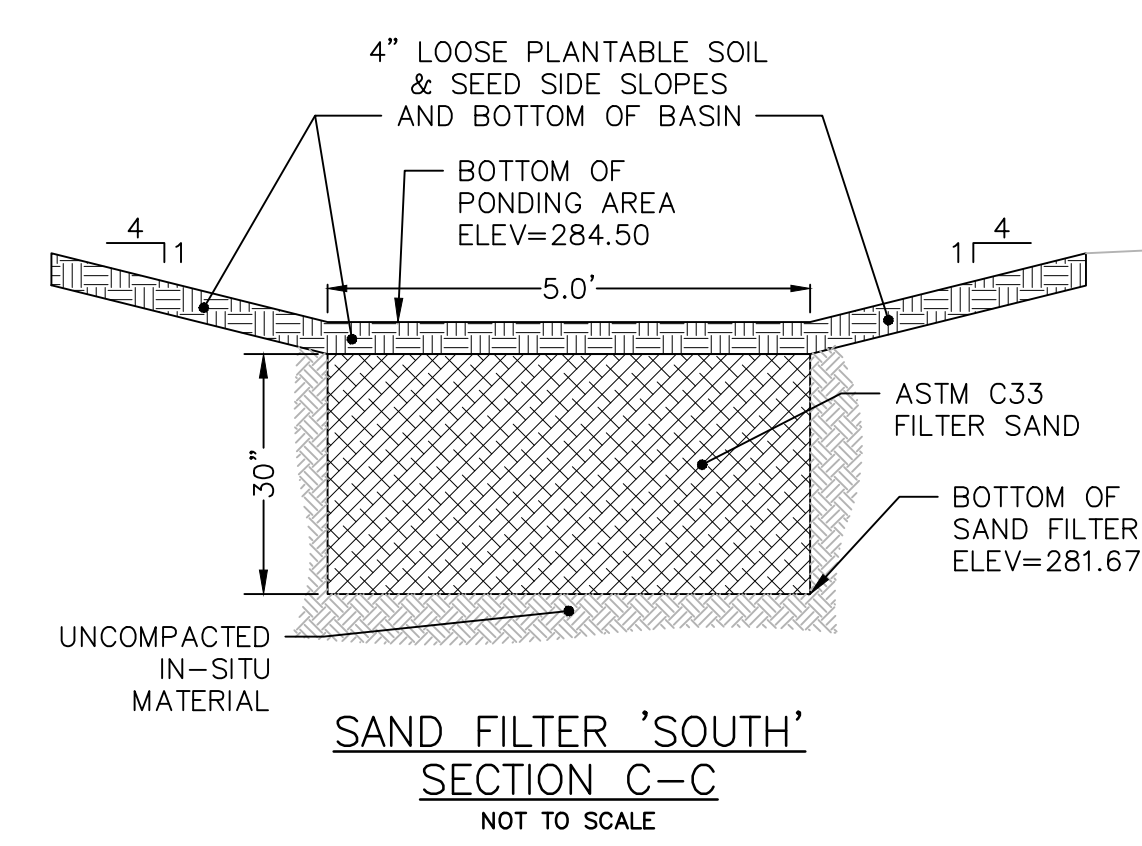
SAND FILTER 'NORTH' SECTION A-A NOT TO SCALE



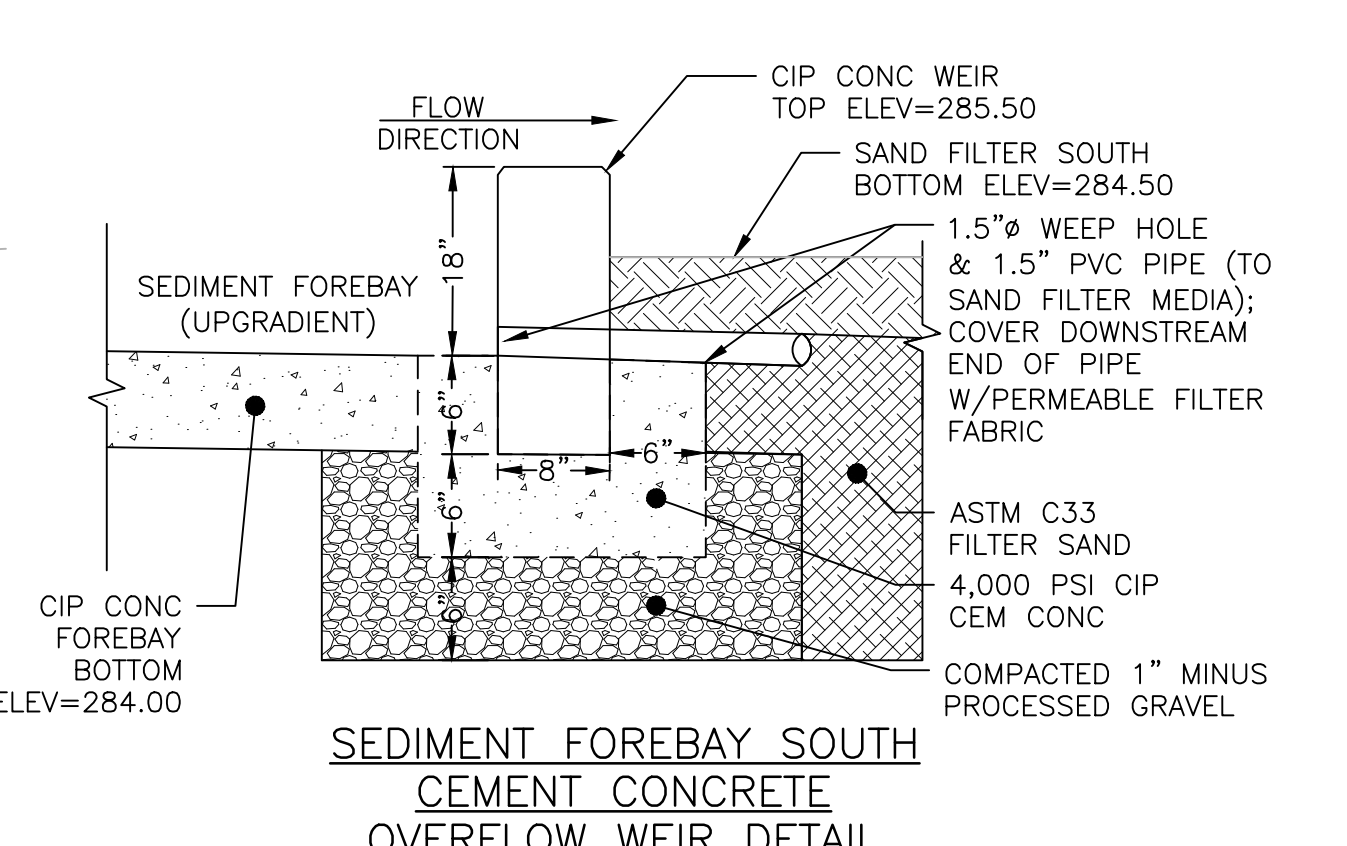
SAND FILTER 'NORTH' SECTION B-B NOT TO SCALE



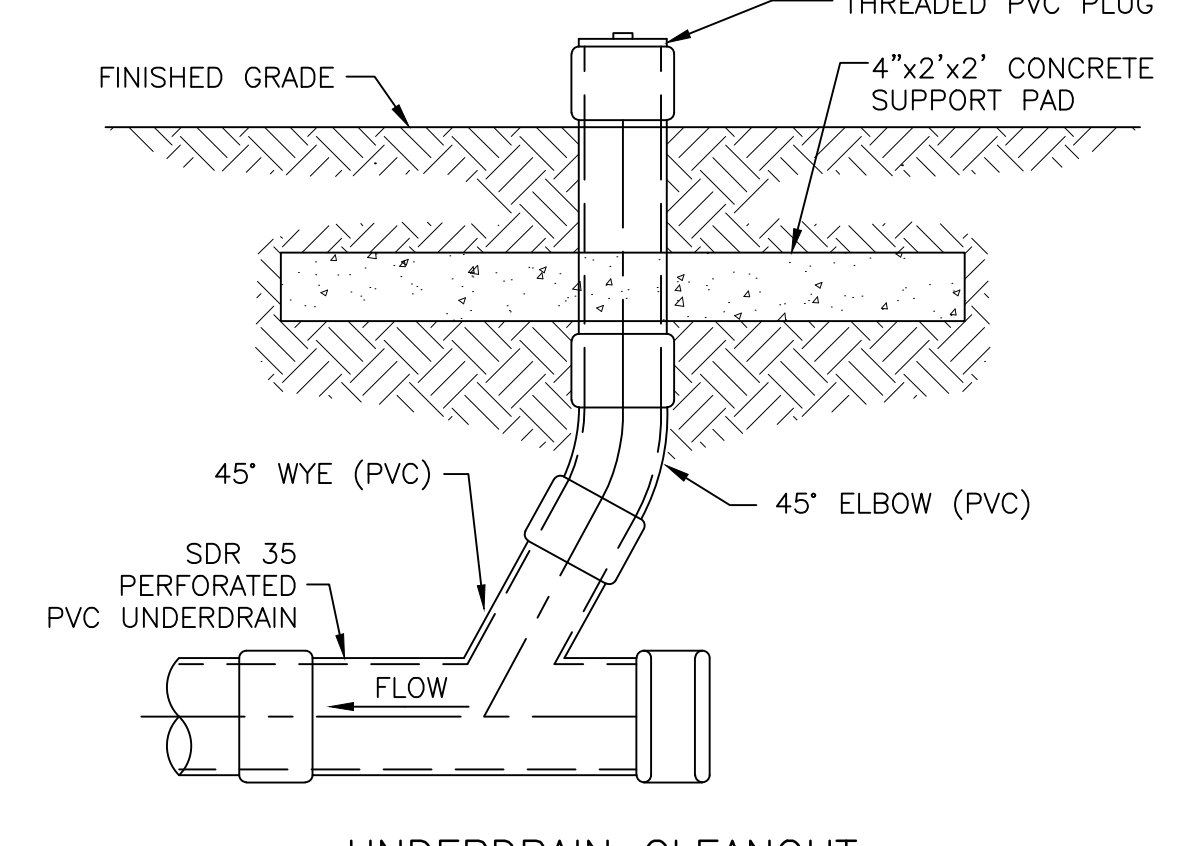
SAND FILTERS DETAIL VIEW SCALE: 1" = 10'



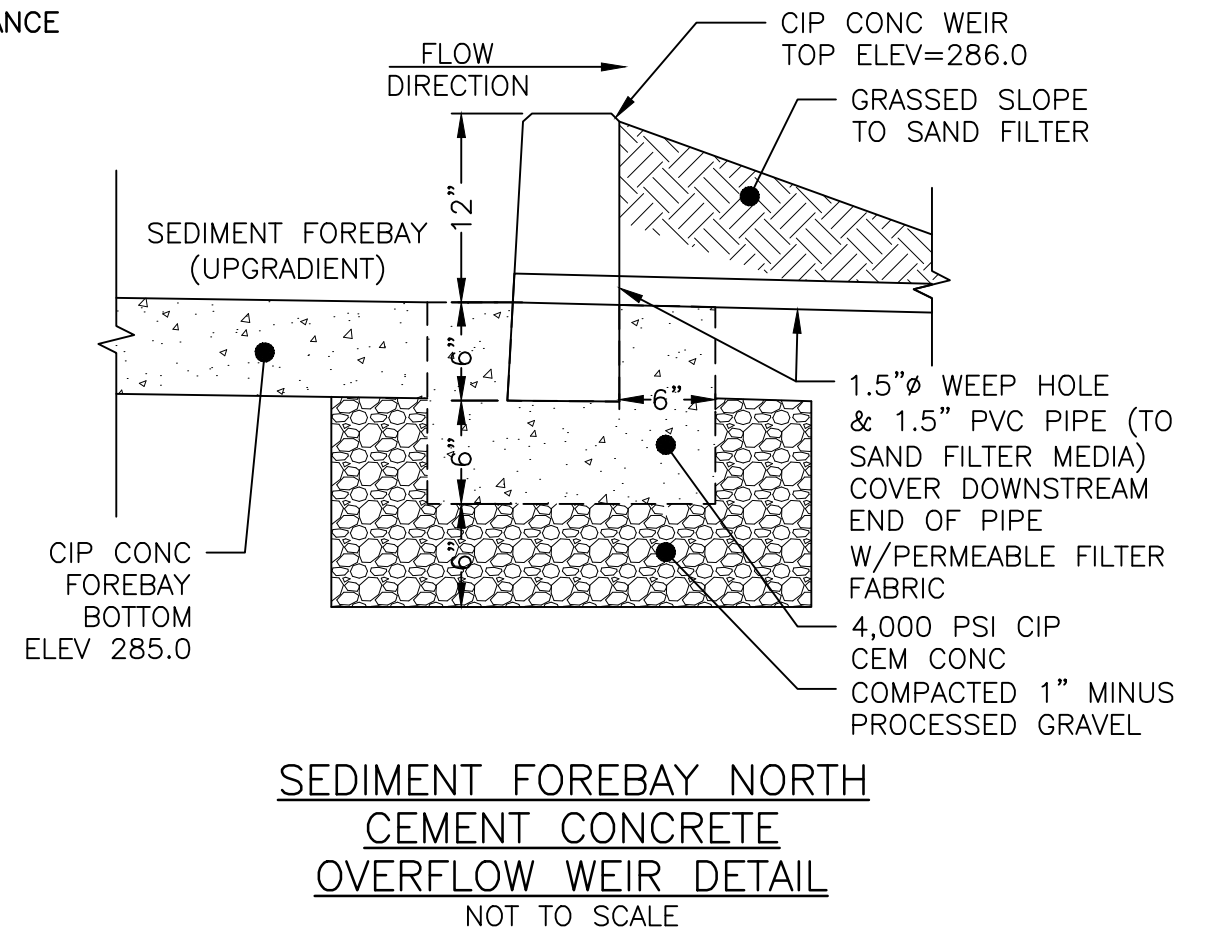
SAND FILTER 'SOUTH' SECTION C-C NOT TO SCALE



SEDIMENT FOREBAY SOUTH CEMENT CONCRETE OVERFLOW WEIR DETAIL NOT TO SCALE



UNDERDRAIN CLEANOUT NOT TO SCALE



SEDIMENT FOREBAY NORTH CEMENT CONCRETE OVERFLOW WEIR DETAIL NOT TO SCALE

REVISIONS		
NO.	DATE	BY
1	3/24/20	NS

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

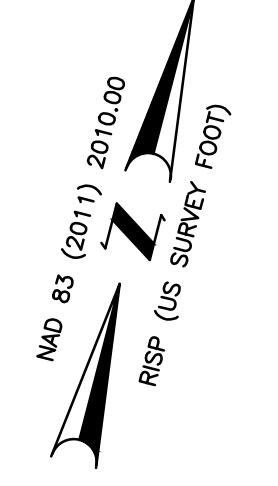
BRIDGE REPLACEMENT
MOHEGAN BRIDGE
BRIDGE No. 673 (43A)
 BURRILLVILLE, RHODE ISLAND

DRAINAGE DETAILS

CHECKED BY _____ DATE _____ SCALE AS SHOWN

COMMONWEALTH
 ENGINEERS & CONSULTANTS, INC.
 400 SMITH STREET
 PROVIDENCE, RI 02908

CURB CURVE DATA							
NO.	DELTA	RADIUS	TANGENT	LENGTH	PC STA.	OFFSET	PT STA. OFFSET
C-1	70°27'39"	48.52'	34.26'	59.66'	266+77.27	22.00', LT.	267+22.99 54.29', LT.
C-2	75°53'43"	45.00'	35.09'	59.61'	267+57.97	61.30', LT.	268+00.90 26.38', LT.
C-3	22°59'35"	40.00'	8.14'	16.05'	267+92.52	48.82', RT.	268+02.14 36.11', RT.



EXIST. S.H.L. PLAT No. 1409

NEW T.E.B. PLAT 2964

EXIST. S.H.L. PLAT No. 1409

R.I.H.B. FOUND#3 STA. 267+19 LT. 77.72' N:327448.85 E:296255.00 EL.291.91

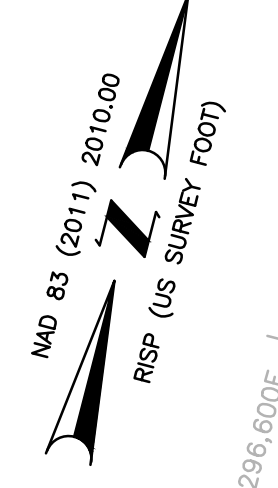
GCP.5 N: 327406.11 E: 295261.86 EL: 290.01

R.I.H.B. BRASS PLUG CALLED FOR NOT FOUND STA. 266+70 40.0' LT.

PROJECT LIMIT
FAP NO. BRO-0673(002)
RI CONTRACT NO. 2020-CB-023
STA. 262+50
N: 327256.2611
E: 295821.1010

USGS SURVEY DISK
N: 327273.5802
E: 295992.9000
EL: 301.65

PROJECT LIMIT
FAP NO. BRO-0673(002)
RI CONTRACT NO. 2020-CB-023
STA. 271+00
N: 327469.1958
E: 296643.9976



MATCHLINE SEE ABOVE

269+00

270+00

271+00

BRONCOS HIGHWAY

EXIST. S.H.L. PLAT No. 1409

NEW T.E.B. PLAT 2964

EXIST. S.H.L. PLAT No. 1409

MAG NAIL SET
N:327238.7641
E:296165.4131
EL. 269.67

R.I.H.B. FOUND HELD#2 STA. 267+55.16 80.02' RT N:327304.73 E:296328.61 EL.287.95

GCP.10 N: 327226.4196 E: 296278.7298 EL: 275.15

GCP.2 N: 327251.60 E: 296364.28 EL: 284.03

R.I.H.B FOUND & HELD#1 STA. 268+09.00 (P) STA. 268+09.13 (S) 130.0' RT N:327269.50 E:296393.20 EL.284.46

EXIST. S.H.L. PLAT No. 1409

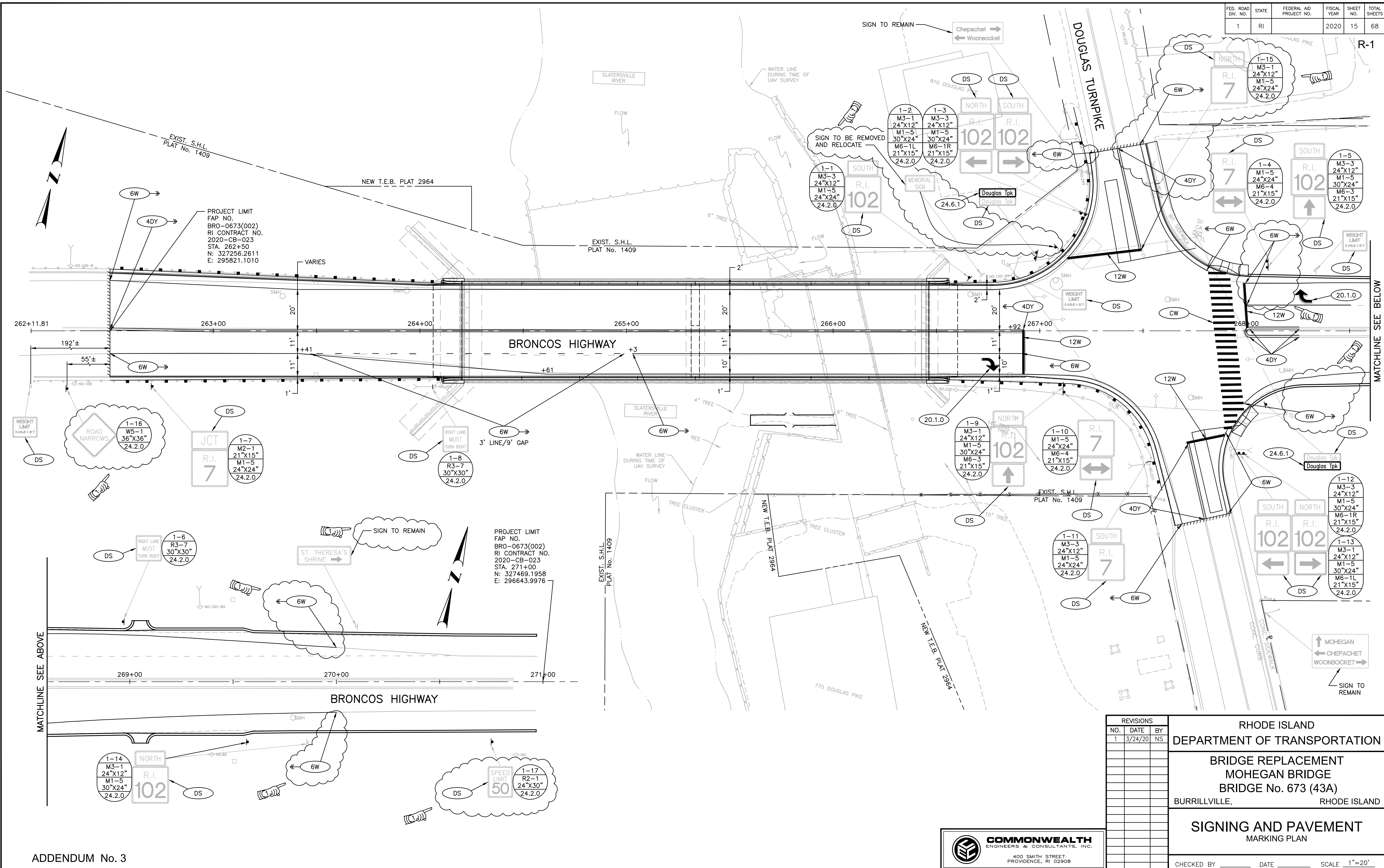
ADDENDUM No. 3



REVISIONS		
NO.	DATE	BY
1	3/24/20	NS

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION
BRIDGE REPLACEMENT
MOHEGAN BRIDGE
BRIDGE No. 673 (43A)
BURRILLVILLE, RHODE ISLAND
LOCATION PLAN
CHECKED BY _____ DATE _____ SCALE 1"=20'

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2020	15	68



ADDENDUM No. 3



REVISIONS		
NO.	DATE	BY
1	3/24/20	NS

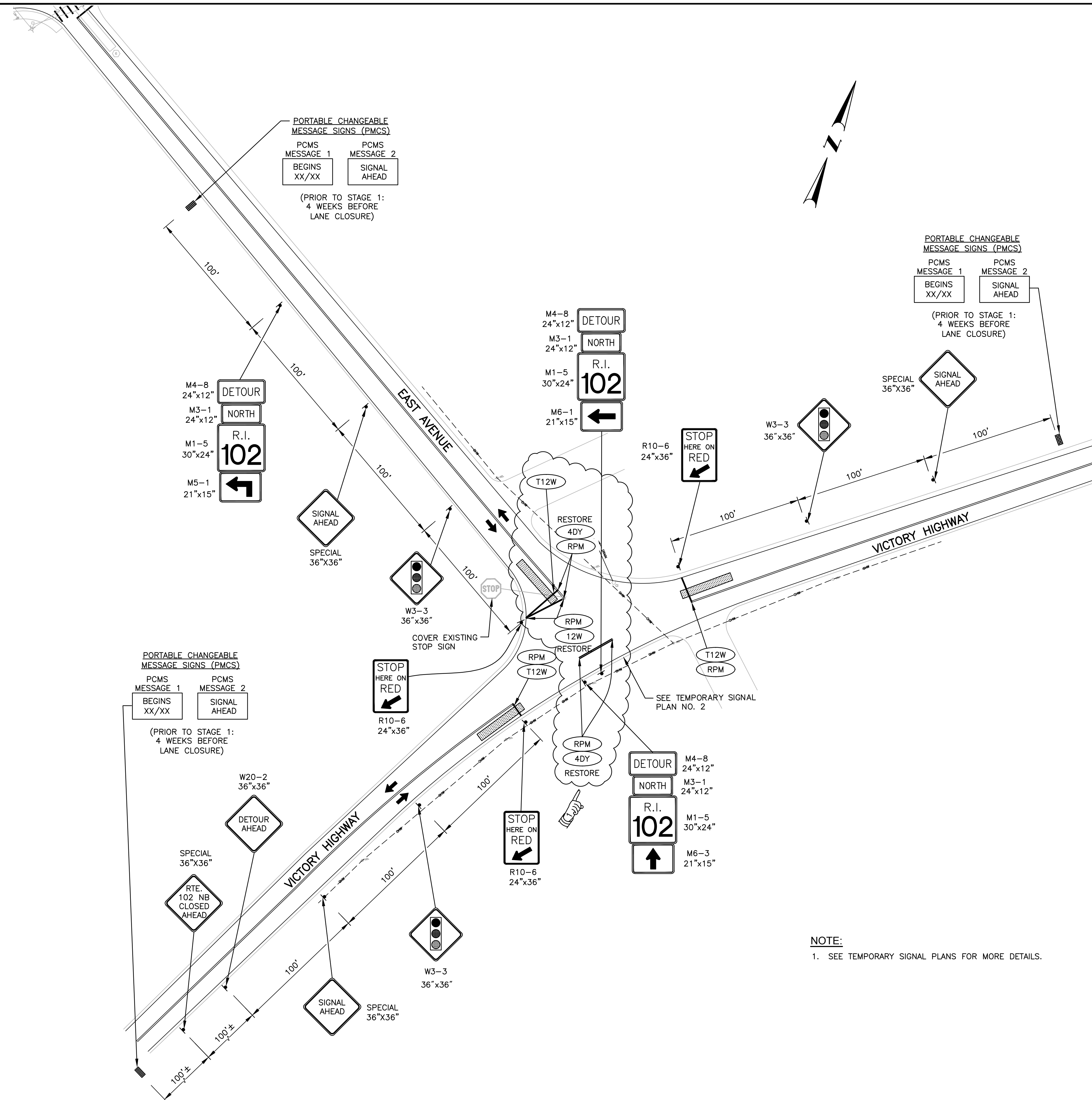
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

**BRIDGE REPLACEMENT
MOHEGAN BRIDGE
BRIDGE No. 673 (43A)**

BURRILLVILLE, RHODE ISLAND

**SIGNING AND PAVEMENT
MARKING PLAN**

CHECKED BY _____ DATE _____ SCALE 1"=20'



NOTE:
1. SEE TEMPORARY SIGNAL PLANS FOR MORE DETAILS.

ADDENDUM No. 3

REVISIONS		
NO.	DATE	BY
1	3/24/20	NS

**RHODE ISLAND
DEPARTMENT OF TRANSPORTATION**

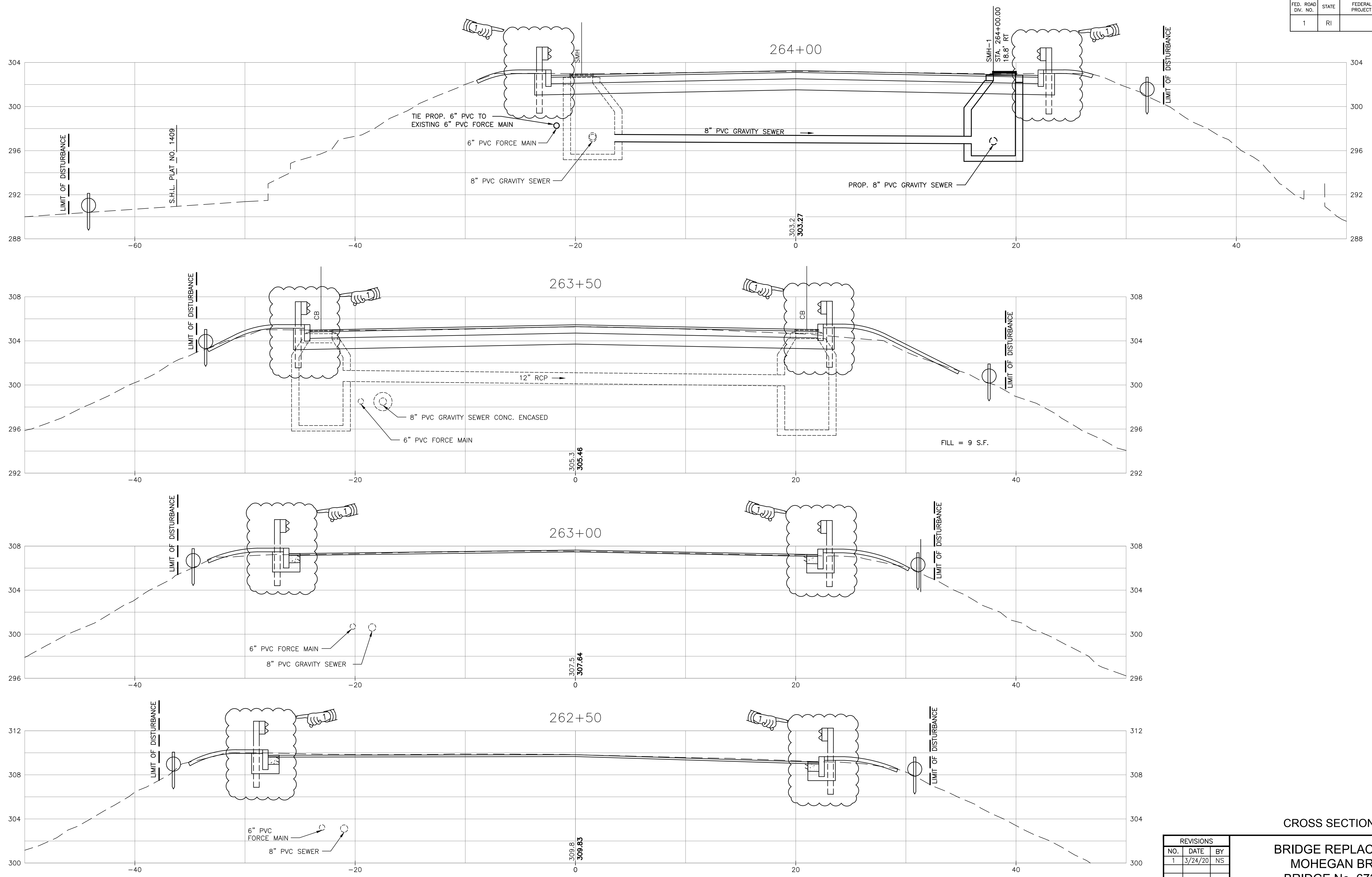
**BRIDGE REPLACEMENT
MOHEGAN BRIDGE
BRIDGE No. 673 (43A)**

BURRILLVILLE, RHODE ISLAND

**MAINTENANCE & PROTECTION
OF TRAFFIC PLAN NO. 5**

CHECKED BY _____ DATE _____ SCALE 1"=40'





ADDENDUM No. 3



REVISIONS		
NO.	DATE	BY
1	3/24/20	NS

CROSS SECTION NO. 1

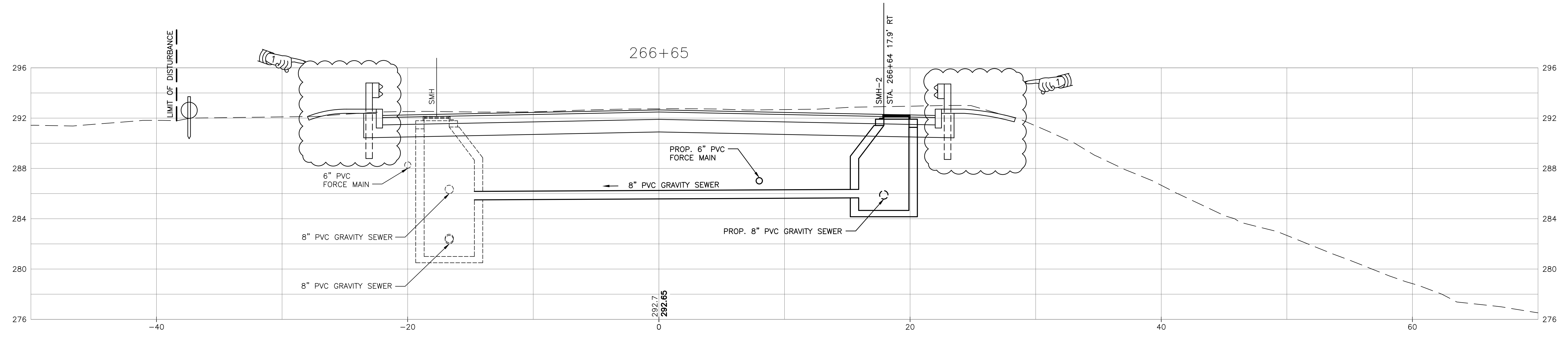
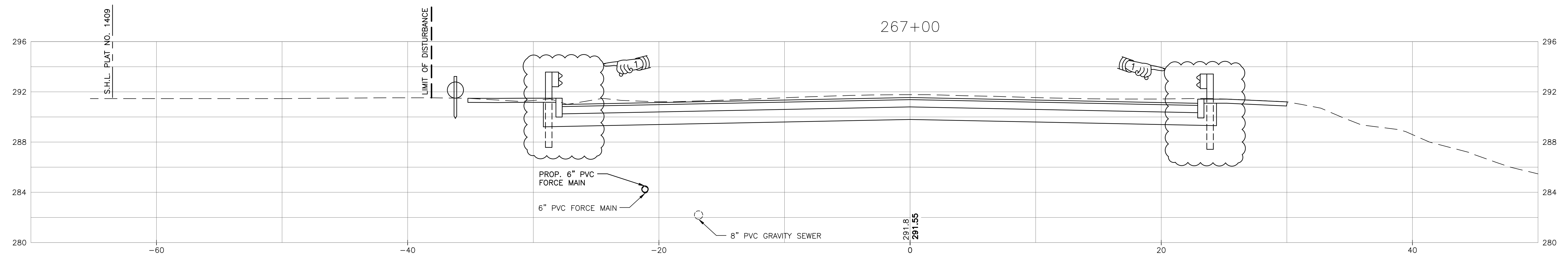
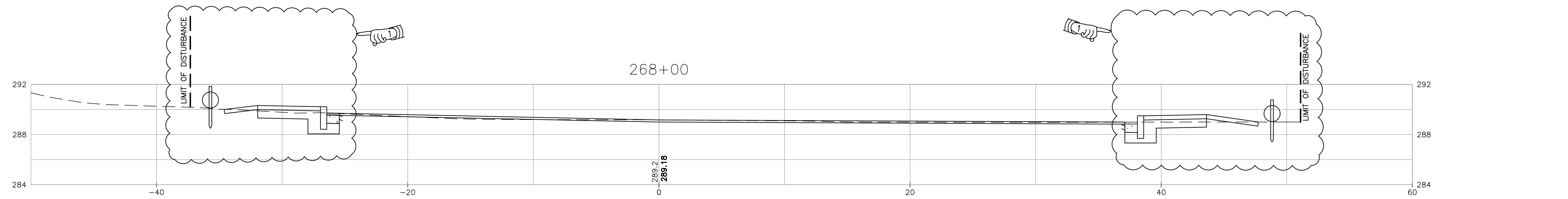
**BRIDGE REPLACEMENT
MOHEGAN BRIDGE
BRIDGE No. 673 (43A)**

BURRILLVILLE, RHODE ISLAND

CHECKED BY _____ DATE _____ SCALE 1"=4'

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2020	29	68

R-1



CROSS SECTION NO. 2

BRIDGE REPLACEMENT
MOHEGAN BRIDGE
BRIDGE No. 673 (43A)

BURRILLVILLE, RHODE ISLAND

CHECKED BY _____ DATE _____ SCALE 1"=4'

REVISIONS		
NO.	DATE	BY
1	3/24/20	NS



ADDENDUM No. 3

P:\1600160020 Bridge Group - CA - Mohegan1 Drawings\Transportation_Civil_Drawing\2601A_V1_029_XSECTION002_ADD03.dwg, 3/23/20 2:48:47 PM, RMM

ALL REFERENCES IN THESE GENERAL NOTE SHEETS AND THROUGHOUT THE CONTRACT DRAWINGS TO THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SHALL EXCLUDE THE METHOD OF MEASUREMENT SECTION AND THE BASIS OF PAYMENT SECTION FOR ITEMS PAID FOR UNDER VARIOUS LUMP SUM ITEMS UNDER THIS CONTRACT.

GENERAL NOTES

- ALL CONSTRUCTION INDICATED ON THESE PLANS SHALL BE IN ACCORDANCE WITH:
 - THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED MARCH 2018, WITH ALL REVISIONS (RI STANDARD SPECIFICATIONS).
 - THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, 4th EDITION, 2017, INCLUDING THE LATEST INTERIM REVISIONS.
 - THE SPECIFICATIONS ACCOMPANYING THESE PLANS.
- DIMENSIONS, STATIONS, AND ELEVATIONS ARE SHOWN TO THE NEAREST ONE-HUNDREDTH OF A FOOT OR ONE-EIGHTH OF AN INCH, EXCEPT STRUCTURAL STEEL DIMENSIONS WHICH ARE TO THE NEAREST ONE-SIXTEENTH OF AN INCH.
- DIMENSIONS, STATIONS, ELEVATIONS, AND ANGLES OF THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE ORIGINAL CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS REQUIRED FOR PROPER PERFORMANCE OF THE WORK. FIELD CONDITIONS MAY EXIST WHICH DEVIATE FROM THE DIMENSIONS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FABRICATION AND FIT OF HIS WORK. THESE DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR AND INCORPORATED INTO THE APPLICABLE SHOP DRAWINGS PRIOR TO SUBMISSION TO THE DEPARTMENT.
- ALL ELEVATIONS ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF NAVD 88.
- COORDINATES USED ON THESE PLANS ARE BASED ON THE STATEWIDE COORDINATE SYSTEM, THE NORTH AMERICAN DATUM OF 1983 (NAD 83).
- TOPOGRAPHIC CONDITIONS WERE OBTAINED FROM UNMANNED AERIAL VEHICLE (UAV).
- FOR BENCH MARKS AND TIES SEE HIGHWAY LOCATION PLANS.
- ANGLES ARE SHOWN TO THE NEAREST SECOND.
- ALL FOOTINGS SHALL BE APPROVED BY THE ENGINEER AS TO DIMENSIONS, ELEVATIONS, AND SUITABILITY OF FOUNDATION MATERIAL BEFORE THE PLACING OF CONCRETE.
- ALL WORKING POINTS ARE SHOWN AT THE CENTERLINES OF BEARINGS OF ABUTMENTS AND AT THE CENTERLINES OF PIERS, UNLESS OTHERWISE NOTED.
- ALL ABUTMENTS AND WALLS ARE DRAWN LOOKING AT THE EXPOSED FACES.
- THE EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND WERE LOCATED USING THE BEST AVAILABLE INFORMATION. NO BUILDING SERVICE CONNECTIONS (ELECTRIC, TELEPHONE, GAS, WATER, SANITARY AND OTHERS) ARE SHOWN. THE CONTRACTOR IS TO ASSUME THAT SERVICES TO ALL BUILDINGS ARE PRESENT.
- BOTH FEDERAL AND STATE LAW (RI. GENERAL LAW 39-1.2) REQUIRE NOTIFICATION OF APPROPRIATE UTILITY COMPANIES BEFORE DIGGING, TRENCHING, BLASTING, DEMOLISHING, BORING, BACK FILLING, GRADING, LANDSCAPING, OR OTHER EARTH MOVING OPERATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES (INCLUDING THROUGH THE "DIG SAFE" PROGRAM) TO ENSURE THAT ALL UTILITIES, BOTH UNDERGROUND AND OVERHEAD, HAVE BEEN MARKED BEFORE COMMENCEMENT OF SUCH WORK. THE CONTRACTOR SHOULD UNDERSTAND THAT NOT ALL UTILITIES SUBSCRIBE TO THE "DIG SAFE" PROGRAM. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANIES, SHALL BE REPAIRED OR REPLACED (AS DEEMED APPROPRIATE BY THE STATE AND/OR THE IMPACTED UTILITY COMPANY) AT NO ADDITIONAL COST TO THE STATE.

DESIGN DATA

- DESIGN SPECIFICATIONS**
 - THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8th EDITION, 2017, INCLUDING ALL INTERIM REVISIONS TO DATE.
 - THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL 2007 EDITION INCLUDING ALL REVISIONS TO DATE.
 - THE 2004 EDITION OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (RI STANDARD SPECIFICATIONS), AMENDED MARCH 2018, WITH ALL REVISIONS.
 - IN CASE OF CONFLICT, THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL SHALL GOVERN.
- LOAD MODIFIERS**
THE LOAD MODIFIERS FOR THIS PROJECT ARE AS FOLLOWS:
 - THE LOAD MODIFIER FOR DUCTILITY SHALL BE TAKEN AS 1.00 FOR ALL LIMIT STATES.
 - THE LOAD MODIFIER FOR REDUNDANCY SHALL BE TAKEN AS 1.00 FOR ALL LIMIT STATES.
 - THE LOAD MODIFIER FOR OPERATIONAL IMPORTANCE SHALL BE TAKEN AS 1.05 FOR THE STRENGTH LIMIT STATE. 1.00 FOR ALL OTHER LIMIT STATES.
- LOAD FACTORS**
ALL LOAD FACTORS SHALL BE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EXCEPT AS MODIFIED IN THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL (SPECIFIED BELOW).
 - THE LOAD FACTOR FOR TEMPERATURE GRADIENT SHALL BE TAKEN AS ZERO FOR ALL LIMIT STATES.
 - THE LOAD FACTOR FOR LIVE LOAD FOR THE EXTREME EVENT I SHALL BE TAKEN AS ZERO.
 - THE LOAD FACTOR FOR DEAD LOAD FOR THE EXTREME EVENT I AND EXTREME EVENT II SHALL BE TAKEN AS 1.00.
- LIVE LOADS**
 - THE DESIGN VEHICULAR LIVE LOAD SHALL BE THE HL-93 DESIGNATION ADJUSTED FOR DYNAMIC LOAD ALLOWANCE AND MULTIPLE PRESENCE FACTOR.
- FOUNDATION DESIGN DATA**
DEEP FOUNDATIONS:
THE FACTORED AXIAL AND UPLIFT RESISTANCES FOR THE DEEP FOUNDATIONS ARE AS FOLLOWS:

LOCATION	TYPE	FACTORED AXIAL RESISTANCE (KIPS)			
		GEOTECHNICAL		STRUCTURAL	
		STRENGTH LIMIT STATES	EXTREME LIMIT STATES	STRENGTH LIMIT STATES	EXTREME LIMIT STATES
CENTER PIER	3'-0"Ø DRILLED SHAFT	2062	3861	3445	3445

 - THE FACTORED DESIGN AXIAL RESISTANCE AT EACH LOCATION IS THE LESSER VALUE OF THE FACTORED GEOTECHNICAL AND THE FACTORED STRUCTURAL RESISTANCES INDICATED.

5. WIND LOADING DESIGN DATA

THE WIND LOADING DESIGN SHALL BE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, THE RHODE ISLAND LRFD BRIDGE DESIGN MANUAL, AND AS MODIFIED HEREIN.

- EXCEPT DURING CONSTRUCTION, THE DESIGN WIND PRESSURE IS BASED ON A DESIGN WIND SPEED OF 110 MPH.
- THE DESIGN WIND PRESSURES DURING CONSTRUCTION SHALL BE AS SPECIFIED UNDER THE NOTES TITLED "GENERAL NOTES REGARDING TEMPORARY CONSTRUCTION CONDITIONS".

6. THERMAL DESIGN FORCE DATA

UNIFORM TEMPERATURE EFFECTS HAVE BEEN TAKEN INTO CONSIDERATION IN ACCORDANCE WITH THE PROCEDURE B OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. THE MINIMUM DESIGN TEMPERATURE SHALL BE -10 DEGREES F, AND THE MAXIMUM TEMPERATURE SHALL BE 105 DEGREES F.



REVISIONS		
NO.	DATE	BY
1	3/25/20	DT

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

BRIDGE REPLACEMENT
MOHEGAN BRIDGE
BRIDGE No. 673 (43A)
BURRILLVILLE, RHODE ISLAND

**BRIDGE GENERAL NOTES
SHEET 1**

CHECKED BY _____ DATE _____ SCALE AS SHOWN

MATERIALS

STRUCTURAL STEEL:

- AASHTO DESIGNATION M 270, GRADE 50W

REINFORCING STEEL:

- AASHTO DESIGNATION M 31, GRADE 60
- GALVANIZED COATING PER SECTION M.05.05 OF THE RI STANDARD SPECIFICATIONS

CONCRETE STRENGTHS:

- CLASS HP 3/4" f_c=5,000 PSI BACKWALLS, BRIDGE DECKS, END POSTS, WALL STEMS, PIER CAP, PARAPETS, PIER COLUMNS, BRIDGE BARRIERS, BEAM SEATS.
- CLASS XX 3/4" f_c=4,000 PSI APPROACH SLABS, DRILLED SHAFTS, ROCK SOCKETS
- CLASS HP 3/8" f_c=5,000 PSI REPAIRS TO STRUCTURE CONCRETE MASONRY - FORM AND CAST IN PLACE

FOUNDATIONS

1. THE FURNISHING AND INSTALLING OF THE DEEP FOUNDATIONS TYPES SPECIFIED IN THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE CONTRACT SPECIAL PROVISIONS.
2. THE GEOTECHNICAL DATA REPORT (GDR) USED FOR THE DESIGN OF THIS PROJECT IS INCLUDED IN THE CONTRACT DOCUMENTS FOR INFORMATION. THE GEOTECHNICAL INTERPRETIVE REPORTS (GIR) USED FOR THE DESIGN OF THE PROJECT ARE NOT PART OF THE CONTRACT DOCUMENTS, BUT ARE AVAILABLE TO BIDDING CONTRACTORS UPON REQUEST FROM THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION.

THE INTERPRETIVE INFORMATION IN THE GIR REPRESENTS THE OPINIONS, BASED ON FACTUAL DATA, BY QUALIFIED GEOTECHNICAL ENGINEERS AND/OR ENGINEERING GEOLOGISTS. THE PURPOSE OF MAKING THE GIR AVAILABLE TO BIDDING CONTRACTORS IS TO CLARIFY GEOTECHNICAL ASPECTS OF THE PROJECT AND TO PROVIDE A UNIFORM BASIS FOR BIDDING. THE INTERPRETATIVE INFORMATION PROVIDED SHALL NOT BE CONSTRUED AS A SUBSTITUTE FOR PERSONAL INTERPRETATIONS OF THE CONTRACTOR, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRAWING HIS/HER OWN CONCLUSIONS, BASED ON THE FACTUAL DATA OF THE GEOTECHNICAL DATA REPORT.

CONCRETE NOTES

1. CLASSES OF CONCRETE SHALL BE HIGH PERFORMANCE CLASS HP, AND CLASS XX, AS DESCRIBED IN THE RI STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS OF THE SPECIFICATIONS. REFER TO THE "MATERIAL" NOTES FOR CLASSES OF CONCRETE SPECIFIED FOR VARIOUS COMPONENTS.
2. THE CONTRACTOR MAY, AT THE APPROVAL OF THE ENGINEER, PROPOSE THE USE OF SELF-CONSOLIDATING CONCRETE FOR ANY CLASS OF CONCRETE ON THIS PROJECT. SECTION 606 "SELF CONSOLIDATING CONCRETE (SCC)", CONTAINS THE REQUIREMENTS FOR MODIFYING ALL CLASSES OF CONCRETE MIX DESIGN FOR SELF-CONSOLIDATING APPLICATIONS.
3. ALL PORTLAND CEMENT CONCRETE SHALL BE AIR-ENTRAINED.
4. EXCEPT FOR FOOTINGS CAST BELOW GRADE, ALL REINFORCING STEEL SHALL BE GALVANIZED. ALL WIRE TIES AND MISCELLANEOUS HARDWARE USED FOR PLACEMENT OF GALVANIZED REINFORCING SHALL ALSO BE GALVANIZED. GALVANIZED COATING FOR REINFORCING STEEL SHALL CONFORM TO SECTION M.05.05 OF THE RI STANDARD SPECIFICATIONS.
5. ALL CRITICAL LAP SPLICES SHALL BE AS SHOWN ON THE PLANS. ALL SPLICES NOT SHOWN ON THE PLANS SHALL BE LAPPED IN ACCORDANCE WITH THE LATEST AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR CLASS B LAP SPLICES.

6. THE TOP BARS IN THE DECK SLABS SHALL BE SPLICED AT THE CENTER OF SPANS BETWEEN GIRDERS. THE BOTTOM BARS SHALL BE SPLICED OVER THE GIRDERS.
7. UNLESS OTHERWISE INDICATED ON THE PLANS, ALL MAIN REINFORCING BARS SHALL HAVE THE FOLLOWING MINIMUM COVER:

CONCRETE CAST AGAINST OR PERMANENTLY EXPOSED TO EARTH (FOOTINGS, ABUTMENT AND WALL FACES, BACKWALLS)		3"
DECK SLABS (WITH WEARING SURFACE)	TOP	2" (+1/4", -0")
	BOTTOM	1.5" (+1/8", -0")
ALL OTHER BARS		2"

COVER TO TIES AND STIRRUPS MAY BE 0.5 INCH LESS THAN THE ABOVE VALUES SPECIFIED FOR MAIN REINFORCING, BUT IN NO CASE LESS THAN 1.5 INCHES.

8. UNLESS NOTED OTHERWISE, ALL ANCHOR BOLTS SHALL BE ASTM DESIGNATION A 307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO DESIGNATION M 232 OR METALIZED IN ACCORDANCE WITH SECTION M.05. SWEDGED RODS SHALL BE AASHTO DESIGNATION M 270 GRADE 36 AND SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO DESIGNATION M 232.
9. ALL ANCHOR BOLTS SHALL BE SET PRIOR TO PLACEMENT OF CONCRETE UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
10. HORIZONTAL CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON PLANS WILL NOT BE PERMITTED WITHOUT A WRITTEN REQUEST BY THE CONTRACTOR AND PRIOR AUTHORIZATION BY THE ENGINEER.
11. UNLESS OTHERWISE NOTED ON THE PLANS, ALL EXPOSED CONCRETE SURFACES VISIBLE IN ELEVATION TO ONE FOOT BELOW FINAL GROUND LINE (AND THE UNDERSIDE OF ALL CONCRETE DECK SLABS OUTSIDE OF THE FASCIA BEAMS), SHALL RECEIVE A CONCRETE SURFACE RUBBED FINISH IN ACCORDANCE WITH THE RI STANDARD SPECIFICATIONS.
12. THE ENTIRE TOPSIDE SURFACES OF ABUTMENT AND PIER CAP BEAM SEATS, AS WELL AS VERTICAL FACES OF BACKWALLS, INSIDE FACES OF PARAPETS / END POSTS, AND OTHER LOCATIONS SHOWN ON THE PLANS, SHALL BE PROVIDED WITH A FILM-FORMING SEALER (M12.03.1) CONCRETE SURFACE TREATMENT-PROTECTIVE COATING IN ACCORDANCE WITH SECTION 820 OF THE RI STANDARD SPECIFICATIONS.
13. ALL EXPOSED EDGES AND REENTRANT CORNERS NOT OTHERWISE DETAILED ON THE PLANS SHALL HAVE A MINIMUM 1/4" CHAMFER.
14. ALL JOINT SEALANT SHALL BE POLYURETHANE, POLYURETHANE ELASTOMERIC, OR SILICONE SEALANT AS DESIGNATED ON THE PLANS. THE COLOR OF THE JOINT SEALANT, WHERE EXPOSED, SHALL BE NEUTRAL (LIGHT GRAY OR TAN). THE COLOR OF THE SEALANT, WHERE NOT EXPOSED, WILL BE AT THE DISCRETION OF THE CONTRACTOR.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING CONCRETE STAINS OR DISCOLORATIONS DURING CONSTRUCTION UNTIL SUCH TIME WHEN THE SURFACES ARE APPROVED AND ACCEPTED. ANY CONCRETE STAINS OR DISCOLORATIONS OCCURRING PRIOR TO ACCEPTANCE OF THE SURFACES SHALL BE REMOVED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.
16. UNLESS OTHERWISE NOTED ON THE PLANS, JOINT FILLER IS TO BE A PREFORMED, NON-EXPANSIVE, NON-EXTRUDING TYPE IN ACCORDANCE WITH SECTION M.02.11.1 OF THE RI STANDARD SPECIFICATIONS.
17. PLACEMENT, FINISHING AND CURING OF BRIDGE DECK CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 814 OF THE RI STANDARD SPECIFICATIONS AND IN ACCORDANCE WITH THE SEQUENCE AND DIRECTION OF POURS AS SHOWN ON THE PLANS.

SUPPORT RAILS FOR THE FINISHING MACHINE(S) SHALL BE LOCATED BEYOND THE CURB LINE SUCH THAT THE ENTIRE BRIDGE DECK SHALL RECEIVE A MACHINE FINISH. THE CONTRACTOR SHALL INCLUDE THE LOADING OF THE FINISHING MACHINE(S) AND THE SUPPORT RAIL SYSTEM IN THE DESIGN OF THE CANTILEVER DECK SUPPORT SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST AND DESIGN OF THIS SUPPORT SYSTEM WHICH MAY REQUIRE THE ADDITION OF TEMPORARY DIAPHRAGMS OR BRACES TO PREVENT FASCIA STRINGER ROTATION.
18. UNLESS OTHERWISE INDICATED ON THE PLANS, ALL DECK FORMS SHALL BE OF THE REMOVABLE TYPE THAT WILL PRODUCE THE DIMENSIONS SHOWN ON THE PLANS.
19. EMBEDMENT LENGTHS FOR DRILLED AND GROUTED DOWELS SHALL BE IN ACCORDANCE WITH SECTION 819 OF THE RI STANDARD SPECIFICATIONS.

20. IN ACCORDANCE WITH THE RI STANDARD SPECIFICATIONS, ALL METAL TIES, NON-METALLIC TIES OR ANCHORAGES WHICH ARE REQUIRED FOR CONCRETE FORMWORK SHALL BE SO CONSTRUCTED THAT THEY CAN BE REMOVED TO AT LEAST ONE INCH BELOW THE EXPOSED SURFACE OF THE CONCRETE WITHOUT CAUSING DAMAGE TO THE CONCRETE SURFACE. SNAP TIES MAY BE USED ONLY IF APPROVED BY THE ENGINEER. IF THE CONTRACTOR PROPOSES TO USE THEM, A CATALOG CUT AND OTHER NECESSARY INFORMATION MUST BE SUBMITTED TO THE ENGINEER TO DEMONSTRATE THAT THE TIES WILL SNAP-OFF FAR ENOUGH INTO THE CONCRETE TO ALLOW FOR PROPER PATCHING. SNAP TIES MUST PROVIDE ADEQUATE STRENGTH TO SUPPORT THE FORMS. ALL CAVITIES SHALL BE FILLED WITH AN APPROVED CEMENT MORTAR MEETING THE REQUIREMENTS OF ASTM C 928.
21. WATER STOPS ARE REQUIRED FOR HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS IN ABUTMENTS AND WALLS WHEN EXPOSED TO BACKFILL EARTH MATERIAL. WATER STOPS SHALL BE INSTALLED AT THE LOCATIONS DETAILED ON THE PLANS, AT THE LOCATIONS AS SPECIFIED ABOVE AND AT ALL LOCATIONS AS DIRECTED BY THE ENGINEER, ALL IN ACCORDANCE WITH SECTION 812 OF THE RI STANDARD SPECIFICATIONS.

REVISIONS			RHODE ISLAND	
NO.	DATE	BY	DEPARTMENT OF TRANSPORTATION	
1	3/25/20	DT	BRIDGE REPLACEMENT	
			MOHEGAN BRIDGE	
			BRIDGE No. 673 (43A)	
			BURRILLVILLE,	RHODE ISLAND
			BRIDGE GENERAL NOTES	
			SHEET 2	
CHECKED BY _____			DATE _____	SCALE AS SHOWN



FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2020	33	68

R-1

STRUCTURAL STEEL NOTES

- FRAMING DIMENSIONS ARE GIVEN ALONG CENTERLINES OF BEAMS/GIRDERS AND ALONG CENTERLINES OF BEARINGS ON ABUTMENTS AND PIERS. THE CONTRACTOR/FABRICATOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ACTUAL MEASUREMENTS THAT MAY IMPACT THE WORK PRIOR TO FABRICATION.
- THE SHOPS FABRICATING THE STRUCTURAL STEEL (EXCEPT FOR EXPANSION JOINTS, RAILINGS AND BEARINGS), MUST BE CERTIFIED FOR "MAJOR STEEL BRIDGES (CBR)" IN ACCORDANCE WITH THE AISC QUALITY CERTIFICATION PROGRAM OR EQUIVALENT. SHOPS FABRICATING THE EXPANSION JOINTS, RAILINGS AND BEARINGS SHALL, AT A MINIMUM, BE CERTIFIED FOR "SIMPLE STEEL BRIDGE STRUCTURES (SBR)".

THE SHOPS SHALL ALSO BE CERTIFIED UNDER THE AISC "SOPHISTICATED PAINT ENDORSEMENT (SPE)" QUALITY PROGRAM OR THE SSPC-QP3 PAINT CERTIFICATION PROGRAM.

THE FABRICATOR MUST SUBMIT PROOF OF CURRENT CERTIFICATION AS SPECIFIED.
- THE STEEL ERECTOR/CONTRACTOR FOR THIS PROJECT SHALL BE CERTIFIED FOR "CERTIFIED STEEL ERECTOR (CSE)" IN ACCORDANCE WITH THE AISC QUALITY CERTIFICATION PROGRAM. THE ERECTOR/CONTRACTOR OF THE STRUCTURAL STEEL SHALL BE REQUIRED TO SUBMIT PROOF OF CURRENT CERTIFICATION AS SPECIFIED.
- SHOP DRAWINGS FOR ALL FABRICATED STEEL INCLUDING FALSEWORK SHALL BE SUBMITTED TO THE ENGINEER IN SUFFICIENT TIME TO PERMIT CAREFUL CHECKING PRIOR TO FABRICATION.
- INSPECTION OF WELDS INCLUDING RADIOGRAPHIC TESTING (RT) AND MAGNETIC PARTICLE TESTING (MT) SHALL BE IN ACCORDANCE WITH THE RI STANDARD SPECIFICATIONS AND THE AASHTO/AWS BRIDGE WELDING CODE, EXCEPT THAT THE REMAINING PERCENTAGE OF ALL GROOVE WELDS NOT RT TESTED SHALL BE MT OR DYE-PENETRANT TESTED.
- STRUCTURAL STEEL SHAPES AND PLATES SHALL CONFORM TO THE LATEST PROVISIONS OF AASHTO DESIGNATION M 270 GRADE 36, GRADE 50, AND 50W AS DESIGNATED ON THE PLANS.
- ALL AASHTO M 270 STRUCTURAL STEEL USED IN GIRDERS (INCLUDING CONNECTION PLATES AND STIFFENERS), SHALL MEET THE ZONE 2 CHARPY V-NOTCH FRACTURE TOUGHNESS TEST REQUIREMENTS AS SPECIFIED IN TABLE 6.6.2-2 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR "NONFRACTURE-CRITICAL" AND "FRACTURE-CRITICAL" COMPONENTS. THE ZONE 2 FRACTURE TOUGHNESS REQUIREMENTS ARE AS FOLLOWS:

NONFRACTURE-CRITICAL

GRADE 36	15 FT-LBS @ 40°F (UP TO 4 INCHES THICK)
GRADE 50 OR 50W	15 FT-LBS @ 40°F (UP TO AND INCLUDING 2 INCHES THICK)
GRADE 50 OR 50W	20 FT-LBS @ 40°F (FROM 2 INCH THICK UP TO AND INCLUDING 4 INCHES THICK)

FRACTURE-CRITICAL

GRADE 36	25 FT-LBS @ 40°F (UP TO 4 INCHES THICK)
GRADE 50 OR 50W	25 FT-LBS @ 40°F (UP TO AND INCLUDING 2 INCHES THICK)
GRADE 50 OR 50W	30 FT-LBS @ 40°F (FROM 2 INCH THICK UP TO AND INCLUDING 4 INCHES THICK)

SAMPLING AND TESTING PROCEDURES SHALL BE IN ACCORDANCE WITH AASHTO T 243. THE FREQUENCY OF TESTING SHALL BE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

THE CHARPY V-NOTCH FRACTURE TOUGHNESS TEST REQUIREMENT IS NOT MANDATORY FOR THE FOLLOWING STEEL COMPONENTS:

- SUPPORT OF EXCAVATION COMPONENTS
- BEARING SOLE PLATES

- WELDING SHALL BE IN ACCORDANCE WITH THE LATEST STRUCTURAL WELDING CODE AASHTO/AWS D1.5 (INCLUDING ALL INTERIMS TO DATE) AND APPLICABLE SUPPLEMENTAL AWS PUBLICATIONS.
- ALL HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM F3125, GRADE A325, AND THEY SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 824 OF THE RI STANDARD SPECIFICATIONS.
- WASHERS MEETING ASTM F436 ARE TO BE USED OVER ALL HOLES THAT ARE MORE THAN 1/16" IN DIAMETER GREATER THAN THE BOLT DIAMETER AND UNDER ALL PARTS TURNED DURING ASSEMBLY.
- WELDING ELECTRODES SHALL HAVE THE SAME CORROSION RESISTANCE AS THE BASE METAL AND SHALL BE FREE OF MOISTURE AT THE TIME OF USE.
- UNLESS OTHERWISE SPECIFIED, THE UPPER SURFACES OF GIRDER TOP FLANGES SHALL BE FREE OF PAINT, OIL OR OTHER IMPURITIES THAT WOULD IN ANY WAY REDUCE THE BOND OF CONCRETE TO STEEL.

- PRIOR TO FABRICATION, ALL MATERIALS SHALL BE BLAST-CLEANED TO AT LEAST SSPC-SP6 TO REMOVE ALL OIL, DIRT, GREASE, MILL SCALE AND OTHER DELETERIOUS MATERIALS FROM THE SURFACES OF THE STEEL TO BE FABRICATED.
- PRIOR TO SHOP COATING AS SPECIFIED IN SECTION 825 OF THE RI STANDARD SPECIFICATIONS, ALL CORNERS AND EDGES OF STEEL WHICH HAVE BEEN FLAME CUT OR OTHERWISE HARDENED SHALL BE SOFTENED BY GRINDING OR BLAST-CLEANING TO PROVIDE A SURFACE SUITABLE FOR APPLICATION OF THE SPECIFIED PAINT SYSTEM.
- WELDING OF ATTACHMENTS TO GIRDER FLANGES OR WEBS FOR CONSTRUCTION PURPOSES IS NOT PERMITTED EXCEPT WHEN APPROVED BY THE ENGINEER.
- WHEN STEEL DIE STAMPS ARE USED TO IDENTIFY PIECES AND MEMBERS, FABRICATORS SHALL UTILIZE LOW STRESS STAMPS.
- THE ENDS OF ALL GIRDERS SHALL BE VERTICAL AFTER ALL DEAD LOADS HAVE BEEN PLACED.
- BEARING STIFFENERS SHALL BE FABRICATED AS SHOWN ON THE PLANS AND SHALL BE PLACED ON BOTH SIDES OF ALL PLATE GIRDER WEBS.
- CONNECTION PLATES SHALL BE SET PERPENDICULAR TO THE FLANGES OF THE GIRDERS.
- END BEARING STIFFENERS AT GIRDER ENDS SHALL BE PLUMB AFTER DEAD LOADS ARE APPLIED.
- BOLTED CONNECTIONS SHALL BE DESIGNED AS SLIP-CRITICAL CONNECTIONS. THE FAYING SURFACES SHALL SATISFY CLASS B SURFACE CONDITION AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
- THE GIRDERS SHALL BE CAMBERED TO THE AMOUNTS SHOWN ON THE PLANS, THE FABRICATOR'S SHOP DRAWINGS SHALL INCLUDE, IN ADDITION TO ANY CUTTING OR CAMBER DIAGRAMS NECESSARY FOR THEIR PURPOSES, A SHOP ASSEMBLY DIAGRAM WHICH PROVIDES CAMBER OFFSETS CALCULATED BY THE FABRICATOR AT THE REFERENCE POINTS PROVIDED BY THE ENGINEER (USUALLY TENTH POINTS OF THE SPANS), THE INFORMATION PROVIDED SHALL BE SUFFICIENT ENOUGH FOR THE ENGINEER TO EVALUATE WHETHER THE CAMBER HAS BEEN CORRECTLY INTERPRETED.
- ALL SHOP CONNECTIONS AND SPLICES SHALL BE WELDED. WELDING PROCEDURES AND TECHNIQUES TO BE USED IN FABRICATION AND ERECTION OF THE GIRDERS SHALL BE AS SHOWN ON THE SHOP DRAWINGS AND SHALL INCORPORATE THE FOLLOWING:
 - BOTH FLANGES AND THE WEB SHALL BE COMPLETELY FABRICATED FOR THEIR ENTIRE LENGTHS BEFORE THE WELDING OF THE FLANGES TO THE WEB IS PERFORMED.
 - ALL WEB AND FLANGE SPLICES OTHER THAN THOSE SHOWN ON THE PLANS MUST BE APPROVED BY THE ENGINEER. ALTERNATE OR ADDITIONAL SPLICES ARE TO BE LOCATED AND DESIGNED BY THE FABRICATOR AND SHOWN ON THE SHOP DRAWINGS. THESE SPLICES ARE TO FULLY DEVELOP THE STRENGTH OF THE WEB AND FLANGE PLATES. WEB SPLICES, IF USED, SHALL BE LOCATED 2'-0" MINIMUM FROM ANY STIFFENER.
 - NO MORE THAN TWO SHOP WEB SPLICES WILL BE PERMITTED BETWEEN FIELD SPLICES. SPLICING OF GIRDERS BY FIELD WELDING WILL NOT BE PERMITTED.
- ALL FILLET WELDS SHALL BE IN ACCORDANCE WITH THE BRIDGE WELDING CODE AASHTO/AWS D1.5 TABLE 2.1 (1/4" MINIMUM).
- ALL SHEAR STUD CONNECTORS SHALL BE WELDED BY THE AUTOMATIC TIMED ELECTRIC ARC PROCESS. SHEAR STUDS SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH SECTION 824 OF THE RI STANDARD SPECIFICATIONS.

Handwritten mark

FABRICATION AND ERECTION OF STRUCTURAL STEEL

- THE FABRICATION OF THE STEEL SHALL BE IN ACCORDANCE WITH THE LATEST PUBLICATION OF THE AASHTO/NSBA STEEL BRIDGE COLLABORATIVE - "STEEL BRIDGE FABRICATION GUIDE SPECIFICATION" - SECTION S2.1.
- THE ERECTION OF STEEL SHALL BE IN ACCORDANCE WITH THE LATEST PUBLICATION OF THE AASHTO/NSBA STEEL BRIDGE COLLABORATIVE - "STEEL BRIDGE ERECTION GUIDE SPECIFICATION" - SECTION S10.1.

REVISIONS			RHODE ISLAND	
NO.	DATE	BY	DEPARTMENT OF TRANSPORTATION	
1	3/25/20	DT	BRIDGE REPLACEMENT	
			MOHEGAN BRIDGE	
			BRIDGE No. 673 (43A)	
			BURRILLVILLE,	RHODE ISLAND
			BRIDGE GENERAL NOTES	
			SHEET 3	
CHECKED BY _____			DATE _____	SCALE AS SHOWN



GENERAL NOTES REGARDING TEMPORARY CONSTRUCTION CONDITIONS:

1. DESIGN WIND PRESSURES FOR CONSTRUCTION:

MINIMUM WIND PRESSURES TO BE USED BY THE CONTRACTOR FOR DESIGN DURING THE CONSTRUCTION CONTRACT (WITH THE EXCEPTION OF SIGNS) SHALL BE FROM THE FOLLOWING TABLE:

HEIGHT ABOVE GROUND	WIND PRESSURE (PSF)
UP TO 17'	33
OVER 17' AND UP TO 33'	37
OVER 33' AND UP TO 50'	41
OVER 50' AND UP TO 75'	44
OVER 75' AND UP TO 100'	47

TABLE NOTES:

A. APPLICATION OF THE TABULAR PRESSURE:

- BRIDGE COMPONENTS DURING CONSTRUCTION, PRIOR TO THE INSTALLATION OF THE PERMANENT BRACING SYSTEMS, NOT INCLUDING CRANE LIFTING.
- FALSE WORK, SHORING, AND SCAFFOLDING AS DEFINED IN FHWA "GUIDE DESIGN SPECIFICATION FOR BRIDGE TEMPORARY WORKS", EXCLUDING 3-DIMENSIONAL LATTICED OR TRUSSED FRAMES OR TOWERS;
- TEMPORARY SHIELDING.

WIND PRESSURES FOR ALL OTHER STRUCTURES SHALL BE CALCULATED BASED ON ASCE "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION", SEI/ASCE 37-02 (ALL REFERENCES TO THE ASCE 7 IN THE SEI/ASCE 37-02 PUBLICATION, SHALL BE THE LATEST REVISION OF ASCE 7). THE EXPOSURE CATEGORY SHALL BE "C".

B. WHERE APPLICABLE HIGHER AMTRAK WIND REQUIREMENTS SHALL SUPERSEDE THESE REQUIREMENTS.

C. FOR STRUCTURES SITUATED ABOVE LIVE INTERSTATE TRAFFIC, THE TABULAR VALUES SHALL BE INCREASED BY 5 PSF.

2. ERECTION OF BRIDGE COMPONENTS:

FOR THE ERECTION OF STRUCTURES, THE FOLLOWING SHALL APPLY:

- THE CONTRACTOR SHALL SUBMIT AN ERECTION PLAN THAT PROVIDES COMPLETE DETAILS OF THE PROCESS INCLUDING, BUT NOT LIMITED TO, TEMPORARY SUPPORTS, SCHEDULING AND OPERATION SEQUENCING, CRANE PLACEMENT, AND ASSUMED LOADS AND CALCULATED STRESSES DURING VARYING STAGES OF LIFTING. THIS APPLIES TO STRUCTURES OF ANY KIND. THE CAPACITY OF THE CRANE AND ALL LIFTING AND CONNECTING DEVICES SHALL BE ADEQUATE FOR 125 PERCENT (150 PERCENT OVER AMTRAK) OF THE TOTAL PICK LOAD INCLUDING SPREADERS AND OTHER MATERIALS. THIS FACTOR OF SAFETY SHALL BE IN ADDITION TO ALL MANUFACTURERS' PUBLISHED FACTORS OF SAFETY.
- A REGISTERED PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF RHODE ISLAND, WILL BE REQUIRED TO STAMP THE CONTRACTOR'S ERECTION PLAN.
- THE CONTRACTOR'S PROFESSIONAL ENGINEER WILL BE REQUIRED TO INSPECT AND PROVIDE WRITTEN APPROVAL OF EACH PHASE OF A GIRDER INSTALLATION, PRIOR TO ALLOWING VEHICLES OR PEDESTRIANS ON OR BELOW THE STRUCTURE. THE PROFESSIONAL ENGINEER MUST ALSO STAMP ALL CHANGES TO THE CONTRACTOR'S ERECTION PLAN. ADDITIONALLY, ALL PROPOSED CHANGES MUST BE SUBMITTED TO RIDOT FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.
- A MANDATORY PRE-ERECTION CONFERENCE WILL BE HELD AT LEAST TWO WEEKS PRIOR TO THE START OF THE GIRDER INSTALLATION TO DISCUSS THE PLAN AND PROCEDURES, WORK SCHEDULES, CONTINGENCY PLANS, SAFETY REQUIREMENTS AND TRAFFIC CONTROL. THE CONTRACTOR'S PROFESSIONAL ENGINEER AND ERECTION SUBCONTRACTOR WILL BE REQUIRED TO ATTEND THIS MEETING, AS WILL THE RIDOT RESIDENT ENGINEER, THE PROJECT MANAGER, AND THE DESIGN CONSULTANT. BASED UPON DISCUSSIONS AT THIS MEETING AND A REVIEW OF THE CONTRACTOR'S ERECTION PLAN, RIDOT MAY ORDER THE CONTRACTOR TO MODIFY AND RESUBMIT THE ERECTION PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL.
- THE CONTRACTOR WILL BE REQUIRED TO PERFORM DAILY INSPECTIONS OF THE ERECTED GIRDERS UNTIL THE BRIDGE DECK IS COMPLETELY POURED.
- THE COST OF PREPARING AND STAMPING THE ERECTION PLAN, COMPUTATIONS, AND REPORTS, RESPONDING TO RIDOT'S COMMENTS AND MAKING THE NECESSARY REVISIONS, AND ATTENDANCE AT MEETINGS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE SUPERSTRUCTURE PAY ITEM, BE IT CONCRETE, STEEL OR TIMBER.

3. TEMPORARY BARRIER ON BRIDGES:

- TEMPORARY BARRIER TO BE UTILIZED ON BRIDGES AND THEIR APPROACH DURING CONSTRUCTION SHALL MEET TEST LEVEL TL-3.

MISCELLANEOUS JOINT NOTES:

ALL JOINT FILLERS AND JOINT SEALANTS OF ALL TYPES AND SIZES AS INDICATED ON THE CONTRACT DRAWINGS AND AS SPECIFIED IN SECTION 808 OF THE RI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION WILL NOT BE MEASURED FOR PAYMENT AND WILL NOT BE PAID FOR SEPARATELY. THESE ITEMS, WHICH INCLUDE BUT ARE NOT LIMITED TO POLYURETHANE JOINT SEALANTS, POLYURETHANE ELASTOMERIC JOINT SEALANTS, MASTIC JOINT SEALANTS, BACKER RODS, AND CLOSED CELL POLYETHYLENE FOAMS ARE CONSIDERED INCIDENTAL ITEMS. THESE ITEMS WILL BE PAID FOR UNDER THE VARIOUS APPROPRIATE LUMP SUM ITEMS OR UNIT BID ITEMS AS LISTED IN THE PROPOSAL.

WATERPROOFING MEMBRANE NOTE:

WATERPROOFING MEMBRANE SHALL BE EITHER A HEAT APPLIED PRE-FABRICATED MEMBRANE OR COLD SPRAY APPLIED LIQUID MEMBRANE IN ACCORDANCE WITH SECTION 813 OF THE RI STANDARD SPECIFICATIONS.

SITE RESTORATION:

ALL PUBLIC OR PRIVATE PROPERTY (WITHIN OR ADJACENT TO THE PROJECT LIMITS DISTURBED BY THE CONTRACTOR'S OPERATIONS), SHALL BE RESTORED TO ITS PRE-CONSTRUCTION CONDITION BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL RESTORATION SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION. THE COST OF RESTORATIONS SHALL BE INCLUDED IN THE PRICES BID FOR OTHER SCHEDULED ITEMS OF WORK, AND NO SEPARATE PAYMENT SHALL BE MADE.

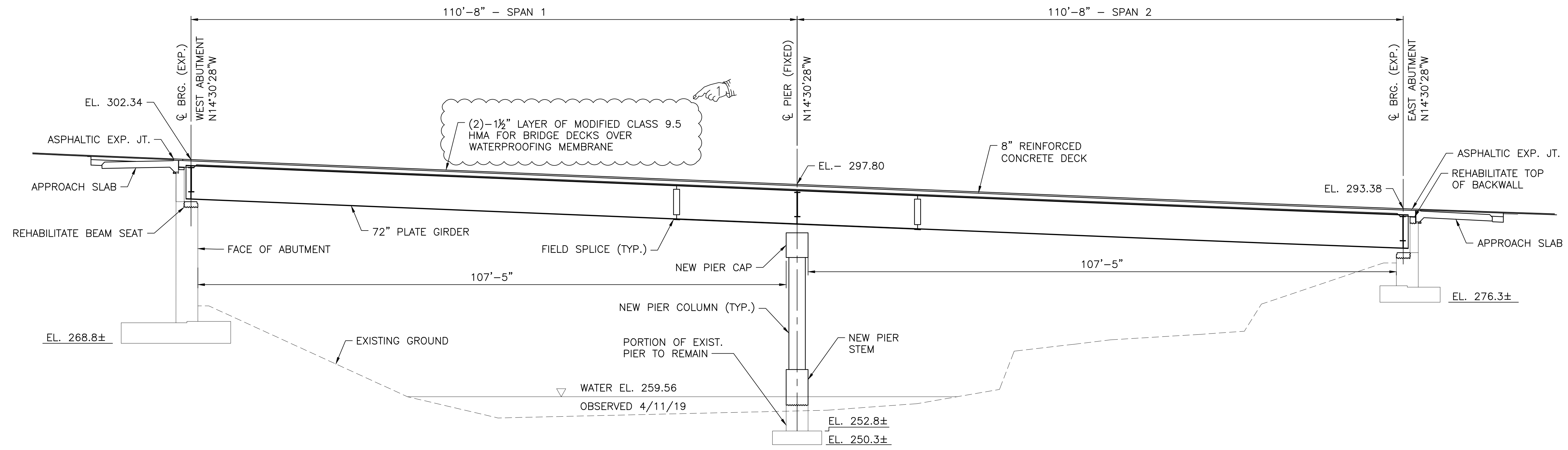
UTILITIES:

- LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES, SHOULD THEY AFFECT ANY CONSTRUCTION OPERATIONS. THE "DIG SAFE" POLICY SHALL ALSO BE FOLLOWED. ANY DAMAGE TO EXISTING UTILITIES SHOWN ON THE PLANS OR LOCATED BY DIG SAFE SHALL BE THE CONTRACTOR'S RESPONSIBILITY. COST OF DAMAGE TO THESE UTILITIES SHALL BE BORNE BY THE CONTRACTOR.

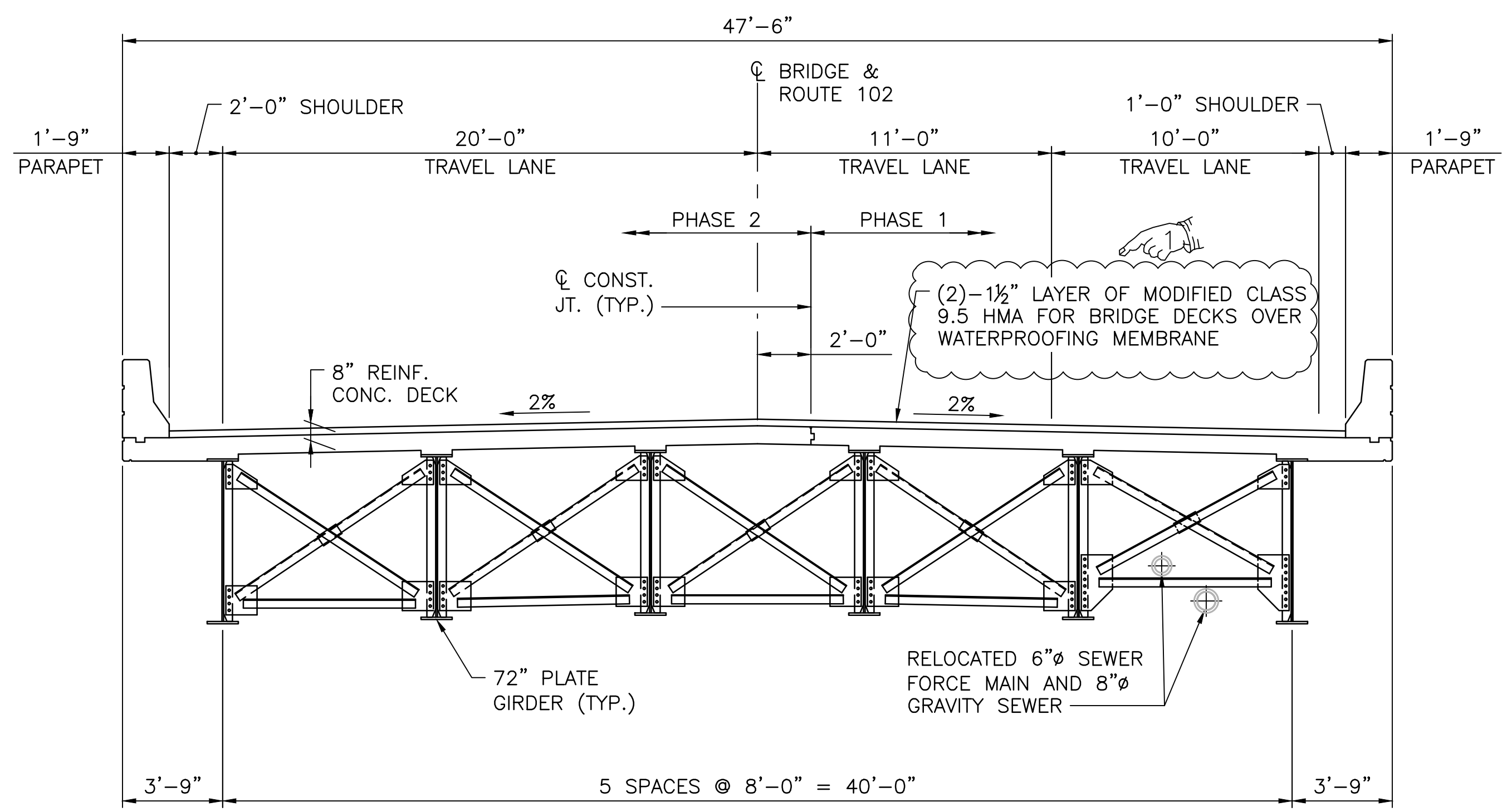
SEDIMENTATION CONTROLS FOR CATCH BASINS NOTES:

- SEDIMENTATION CONTROL DEVICES FOR CATCH BASINS SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.

REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY		
1	3/25/20	DT	BRIDGE REPLACEMENT MOHEGAN BRIDGE BRIDGE No. 673 (43A) BURRILLVILLE, RHODE ISLAND	
			BRIDGE GENERAL NOTES SHEET 4	
			CHECKED BY _____	DATE _____ SCALE AS SHOWN



LONGITUDINAL CROSS SECTION-LOOKING NORTH
SCALE: 1"=10'-0"



TRANSVERSE CROSS SECTION
SCALE: 1/4"=1'-0"

REVISIONS		
NO.	DATE	BY
1	3/23/20	DT

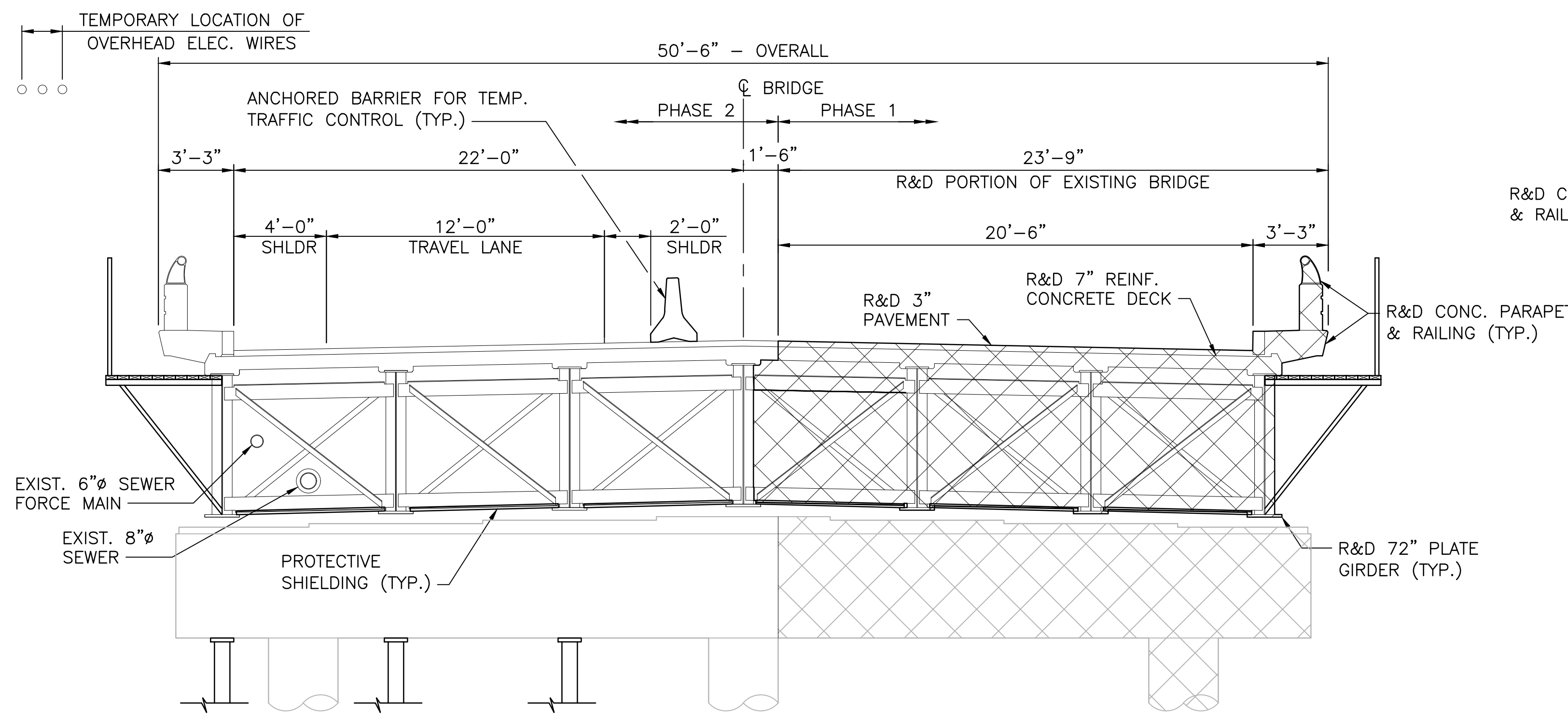
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

BRIDGE REPLACEMENT
MOHEGAN BRIDGE
BRIDGE No. 673 (43A)
Burrillville, Rhode Island

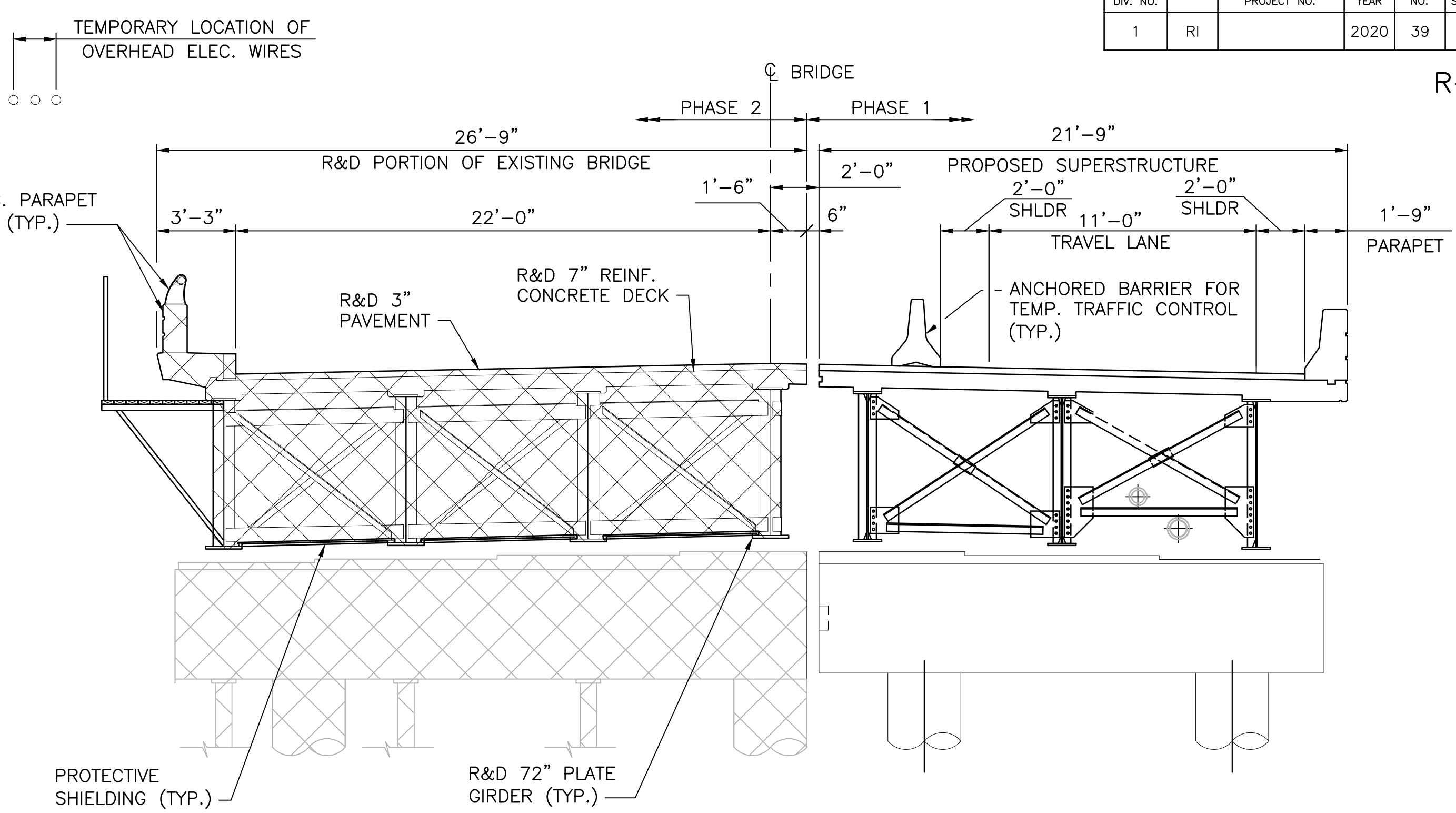
LONGITUDINAL AND
TRANSVERSE SECTIONS

CHECKED BY _____ DATE _____ SCALE AS SHOWN

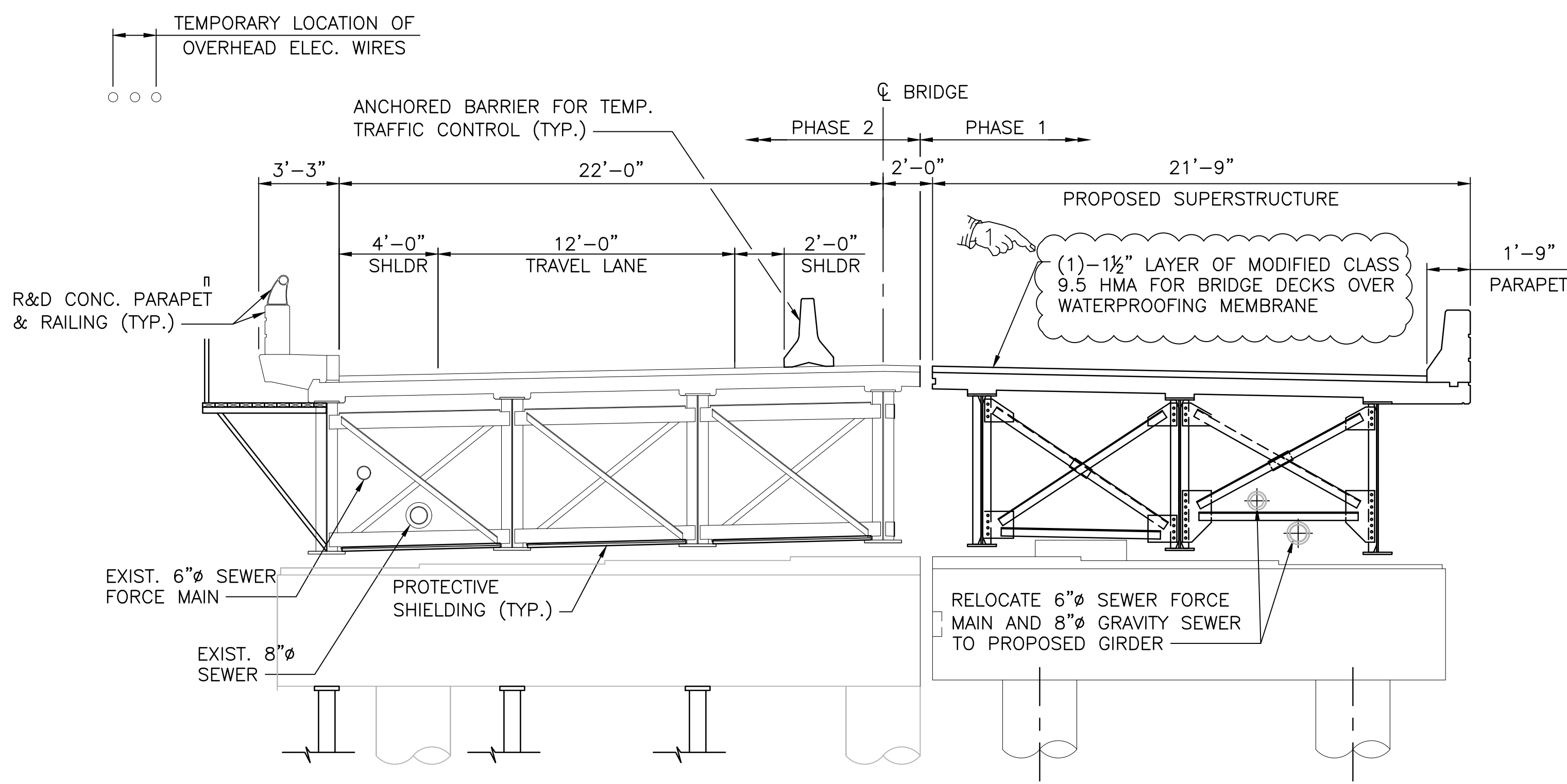




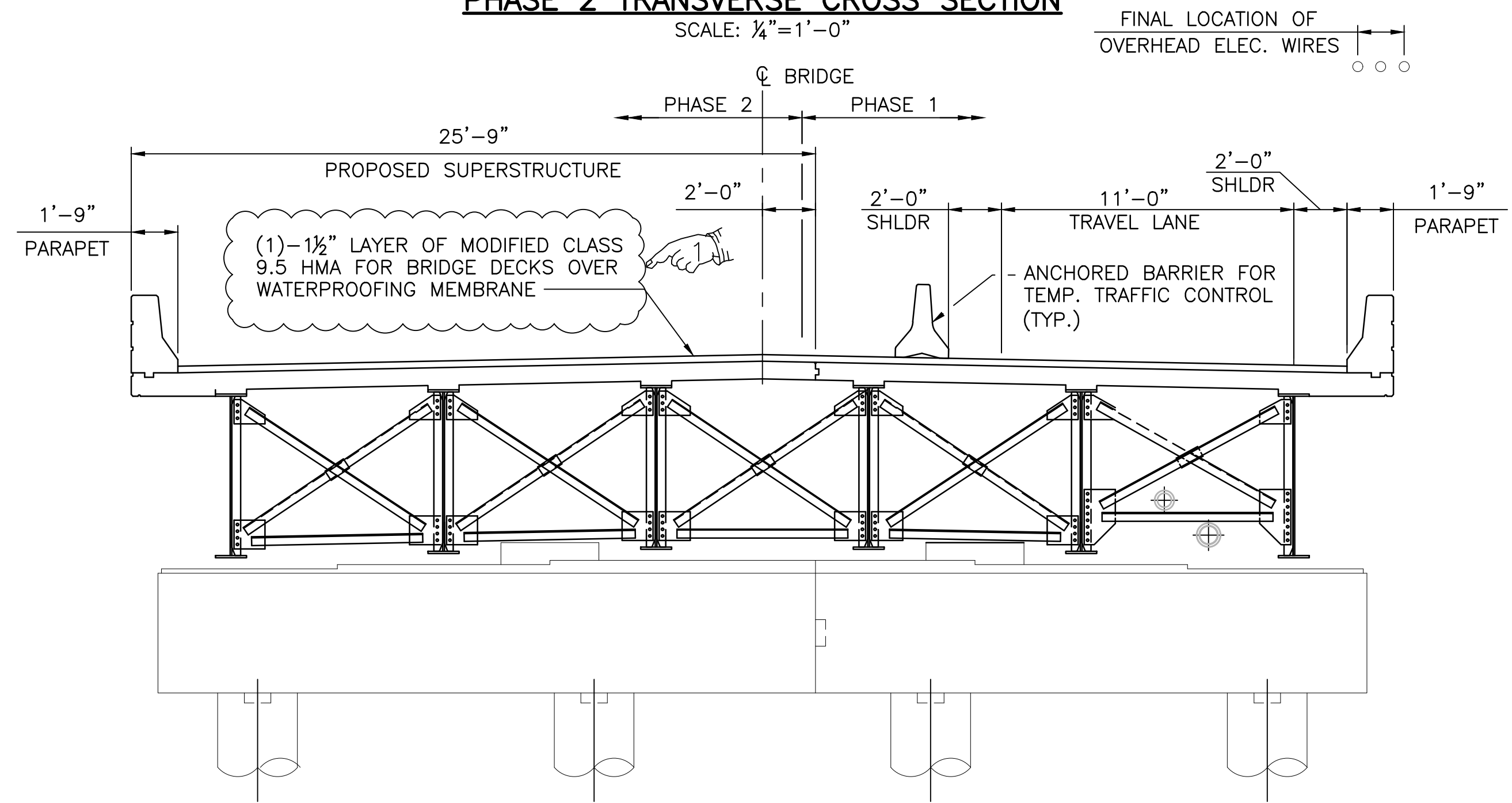
PHASE 1 TRANSVERSE CROSS SECTION
SCALE: 1/4"=1'-0"



PHASE 2 TRANSVERSE CROSS SECTION
SCALE: 1/4"=1'-0"



PHASE 1a TRANSVERSE CROSS SECTION
SCALE: 1/4"=1'-0"

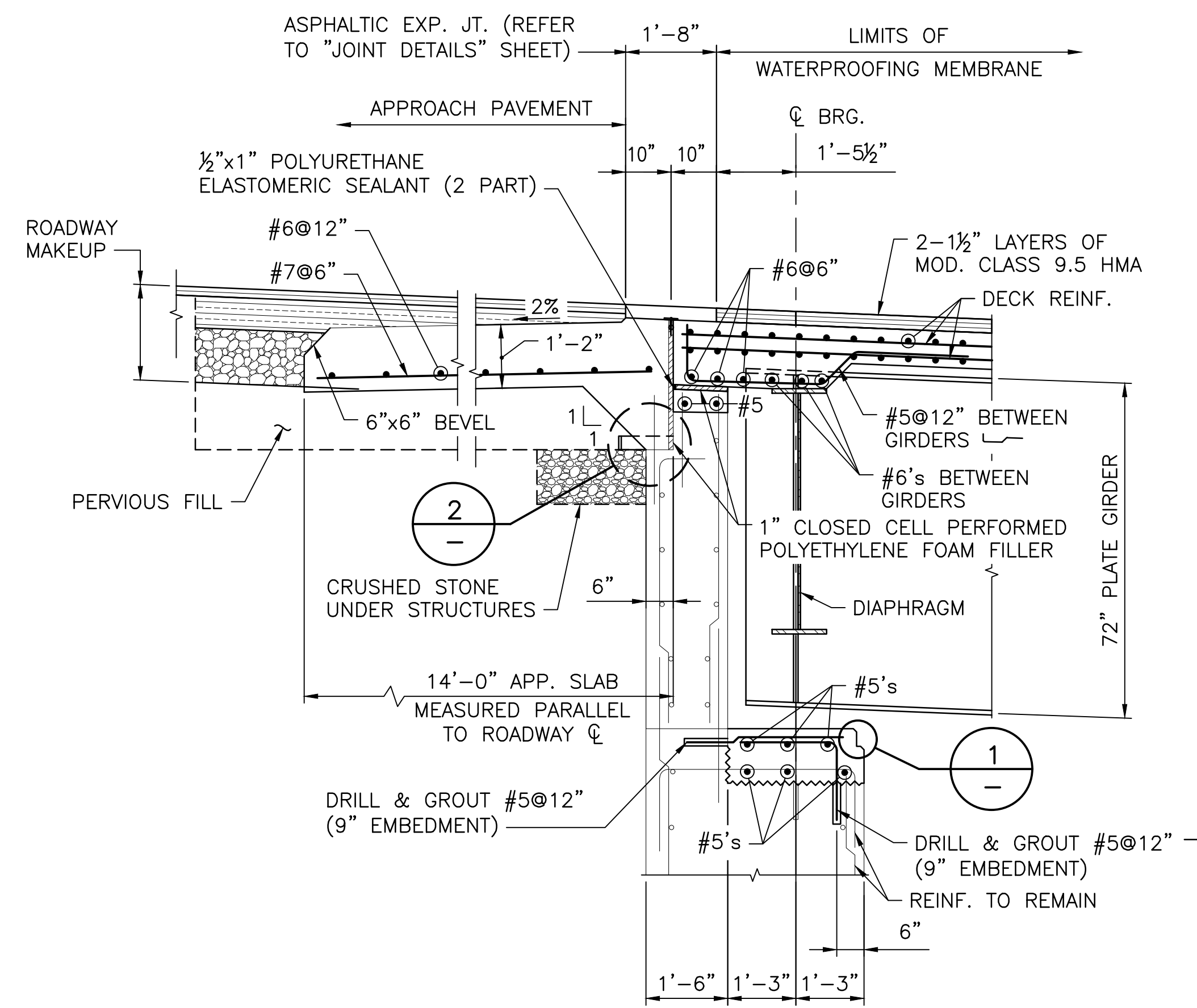


PHASE 2a TRANSVERSE CROSS SECTION
SCALE: 1/4"=1'-0"

- NOTES:**
1. TEMPORARY DECK UNDERSIDE AND SIDE PROTECTIVE SHIELDING IS MANDATORY.
 2. TEMPORARY DECK UNDERSIDE & SIDE PROTECTIVE SHIELDING SHALL BE IN ACCORDANCE WITH SECTION 803.0500 OF THE STANDARD SPECIFICATIONS.
 3. REFER TO "TEMPORARY DECK UNDERSIDE & SIDE PROTECTIVE SHIELDING DETAIL" AND "TEMPORARY RETURN WALL SIDE PROTECTIVE SHIELDING DETAIL" ON "MISCELLANEOUS DETAILS SHEET 2" FOR ADDITIONAL INFORMATION AND THE VERTICAL PAY LIMITS FOR THE TEMPORARY DECK UNDERSIDE & SIDE PROTECTIVE SHIELDING.

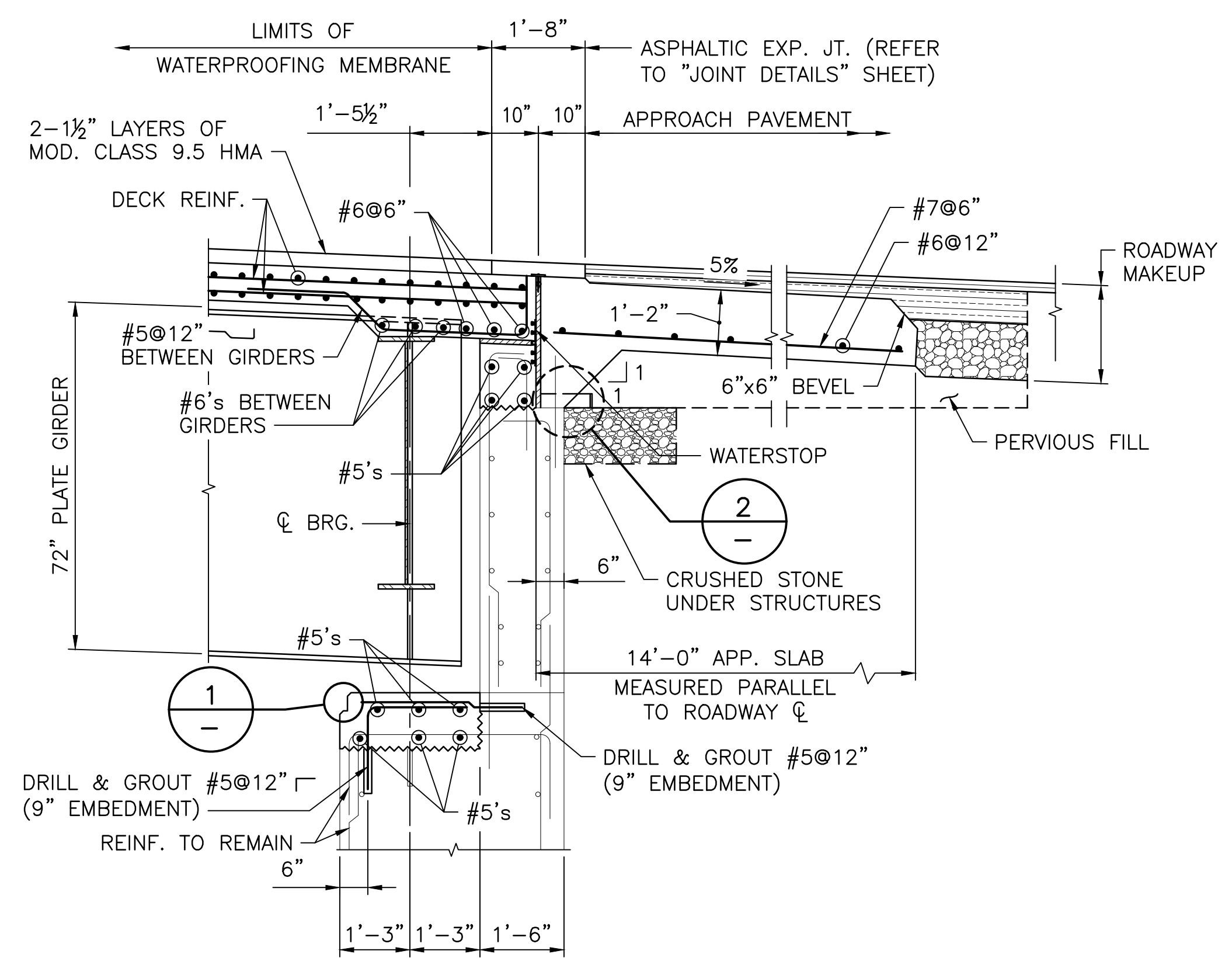
REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION
NO.	DATE	BY	
1	3/23/20	DT	BRIDGE REPLACEMENT MOHEGAN BRIDGE BRIDGE No. 673 (43A) BURRILLVILLE, RHODE ISLAND
			PHASE CONSTRUCTION
			CHECKED BY _____ DATE _____ SCALE AS SHOWN





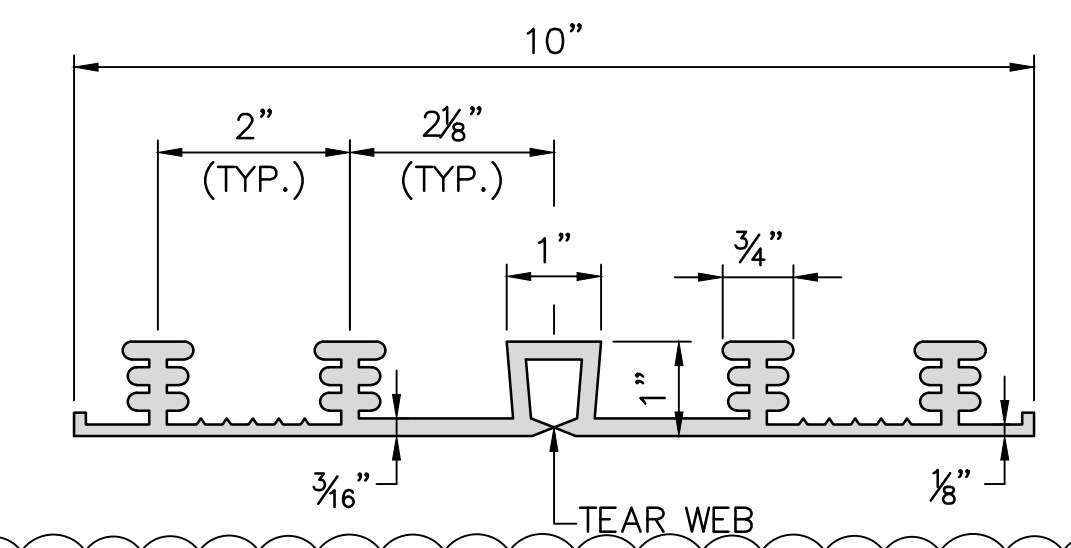
TYPICAL WEST ABUTMENT

SECTION A SCALE: 1/2"=1'-0" 44

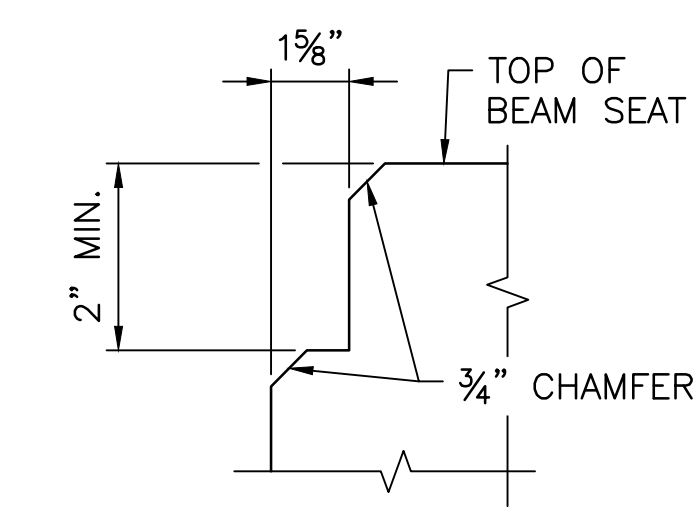


TYPICAL EAST ABUTMENT

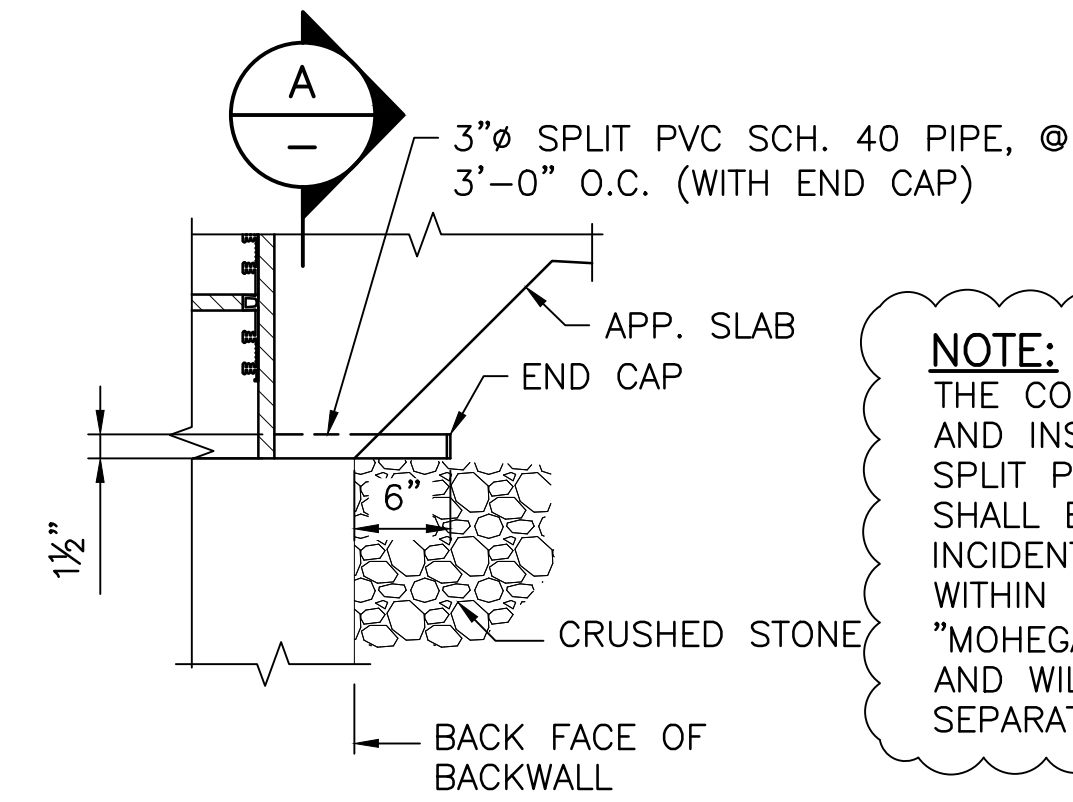
SECTION B SCALE: 1/2"=1'-0" 45



PVC WATERSTOP DETAIL NOT TO SCALE

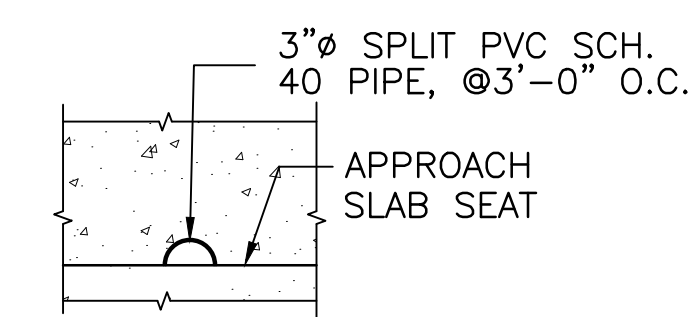


DETAIL 1 NOT TO SCALE



DETAIL 2 NOT TO SCALE

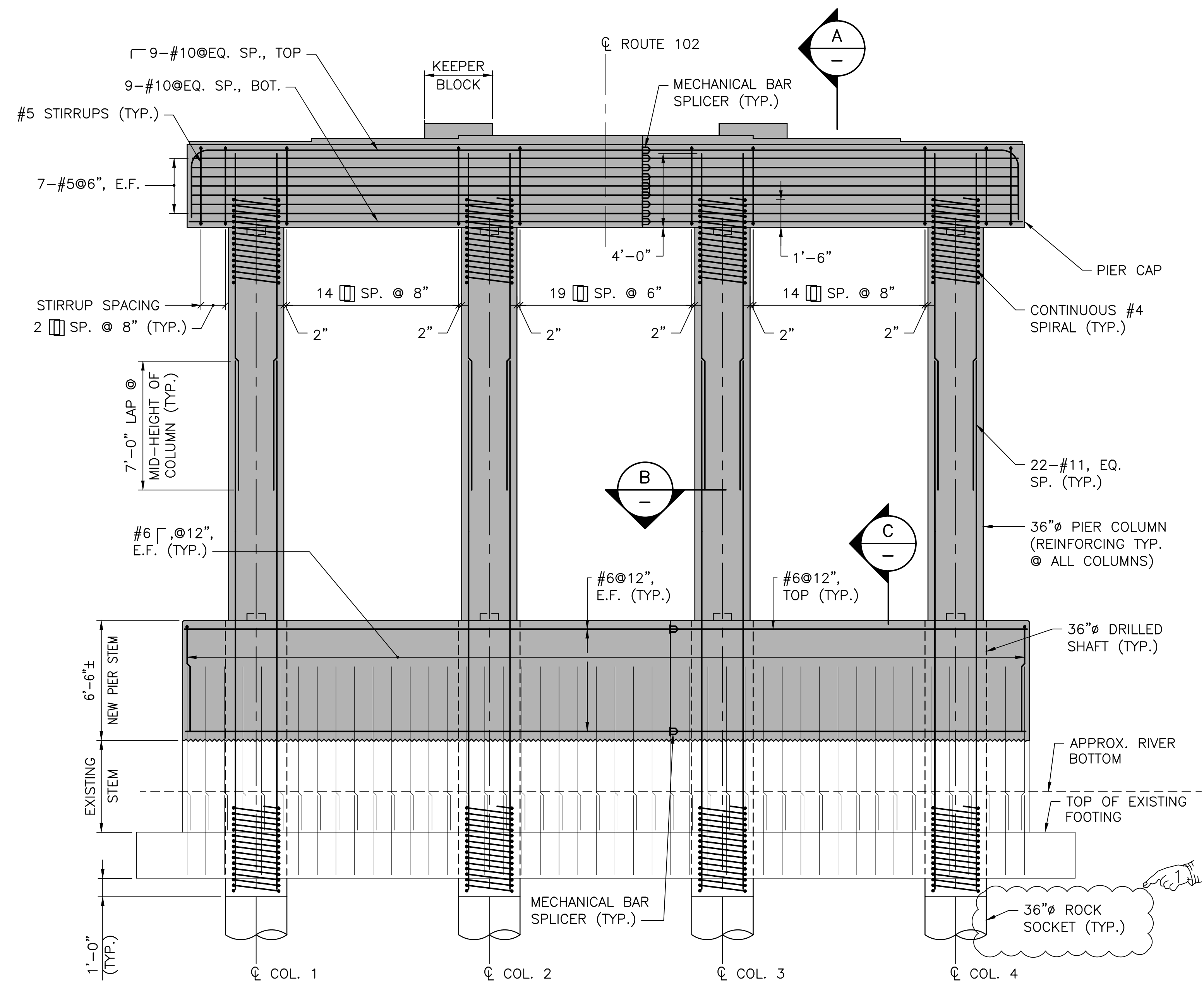
NOTE:
THE COST FOR FURNISHING AND INSTALLING THE PVC SPLIT PIPE WITH END CAP SHALL BE CONSIDERED INCIDENTAL TO, AND INCLUDED WITHIN ITEM 800.9901 "MOHEGAN BRIDGE No. 673" AND WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.



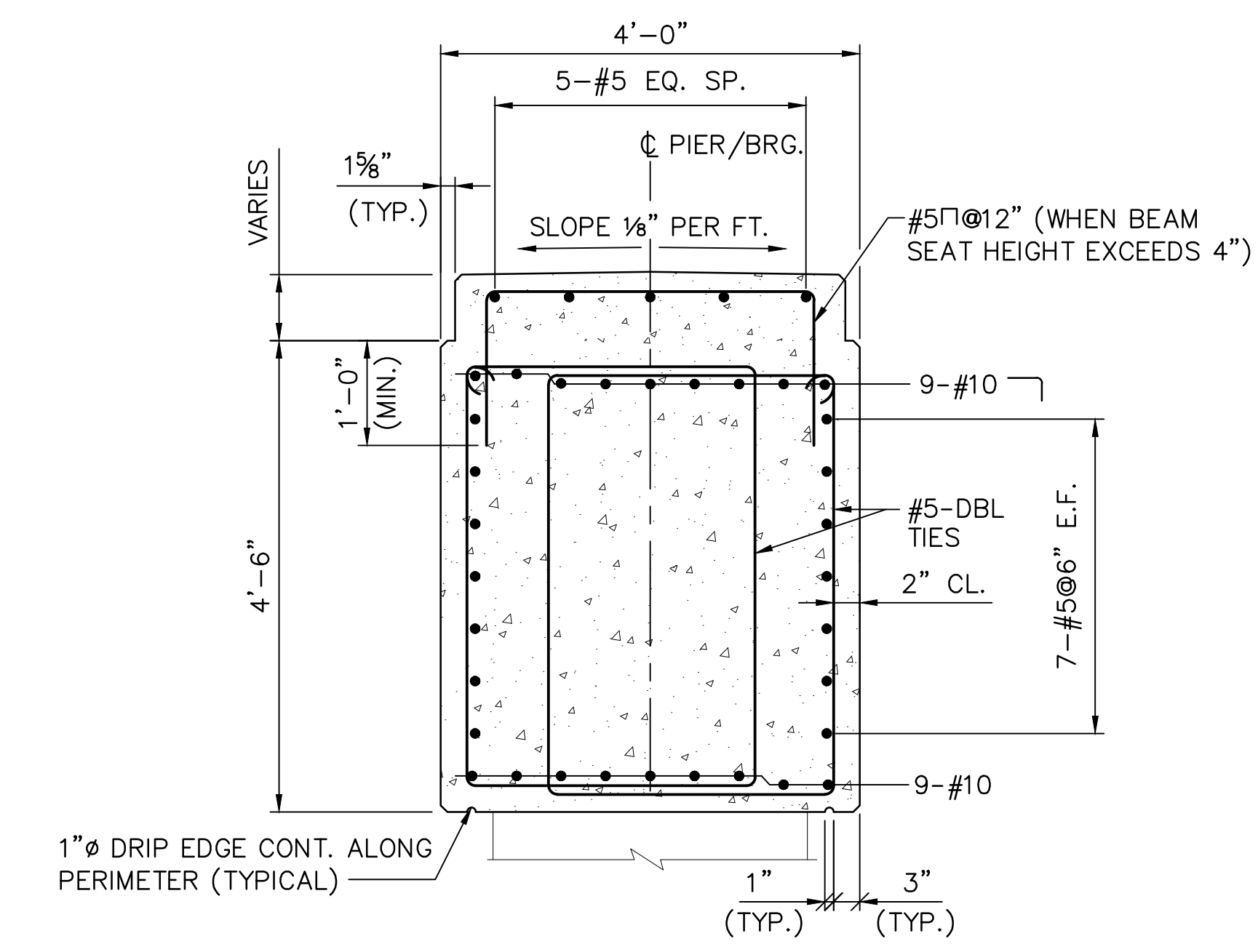
SECTION A NOT TO SCALE

REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY		
1	3/23/20	DT	BRIDGE REPLACEMENT MOHEGAN BRIDGE BRIDGE No. 673 (43A) BURRILLVILLE, RHODE ISLAND	
			ABUTMENT SECTIONS AND DETAILS SHEET 1	
			CHECKED BY	DATE
			SCALE AS SHOWN	

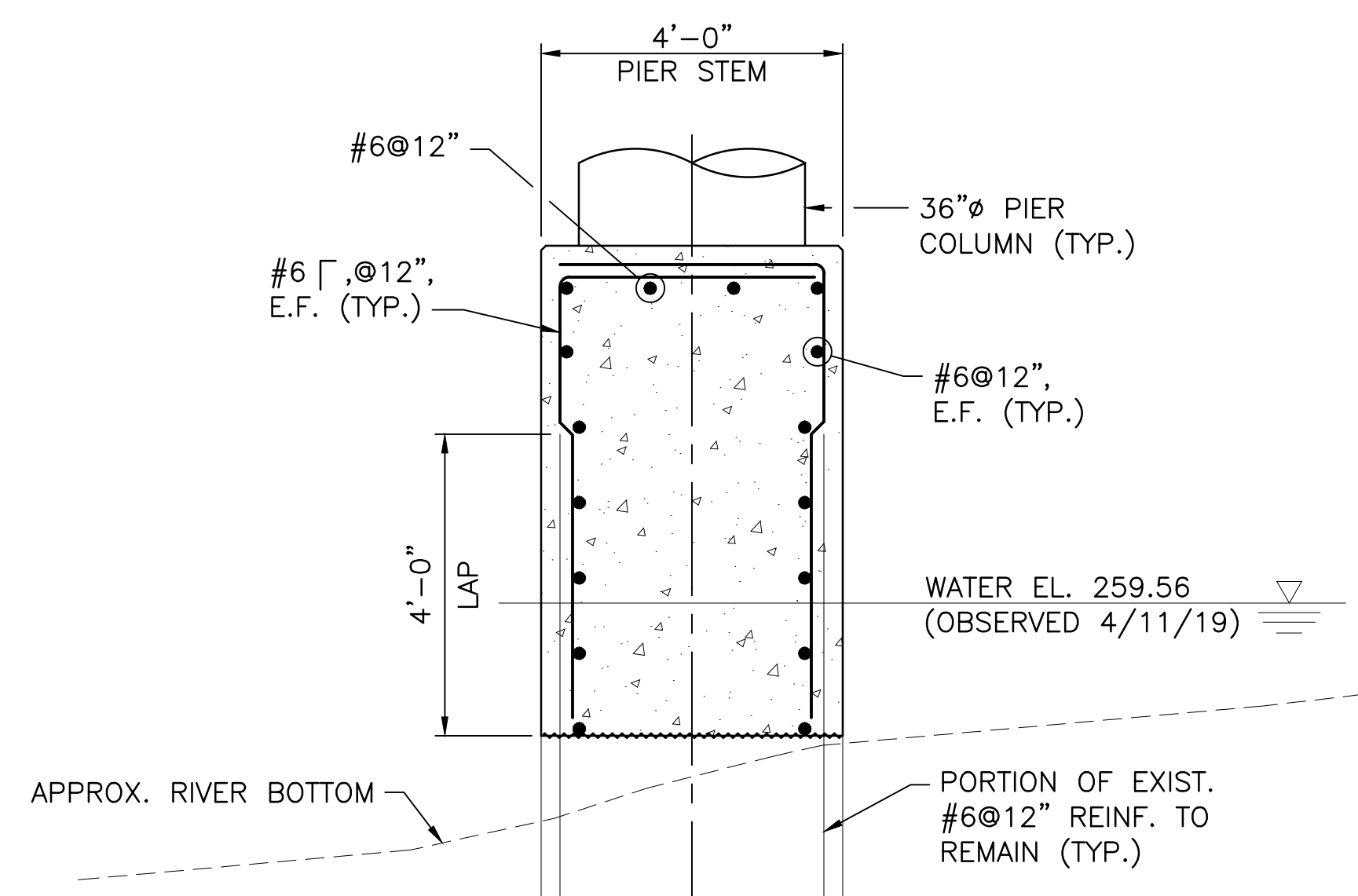




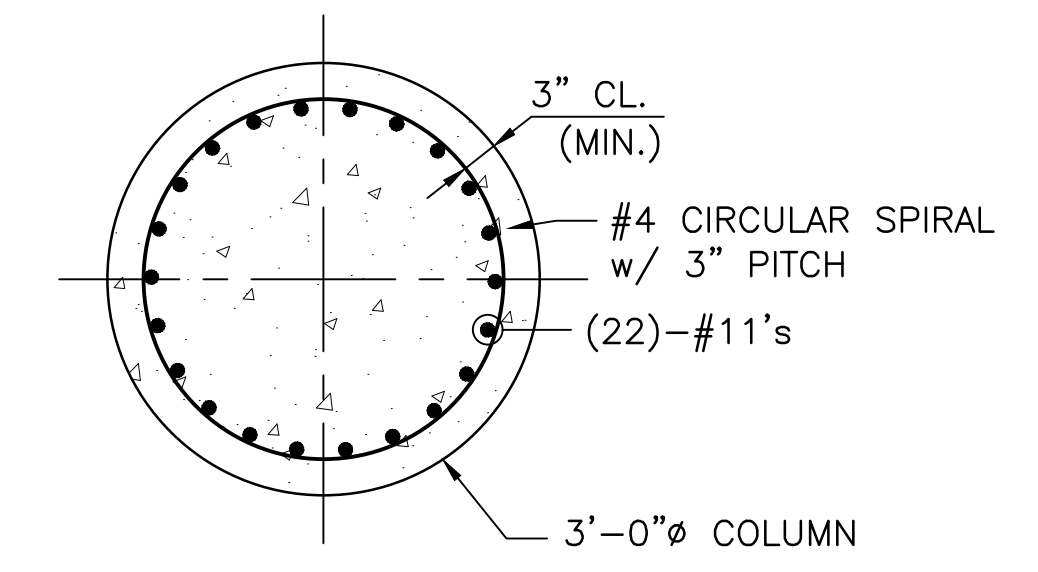
PIER ELEVATION
PIER REINFORCING
SCALE: 1/4"=1'-0"



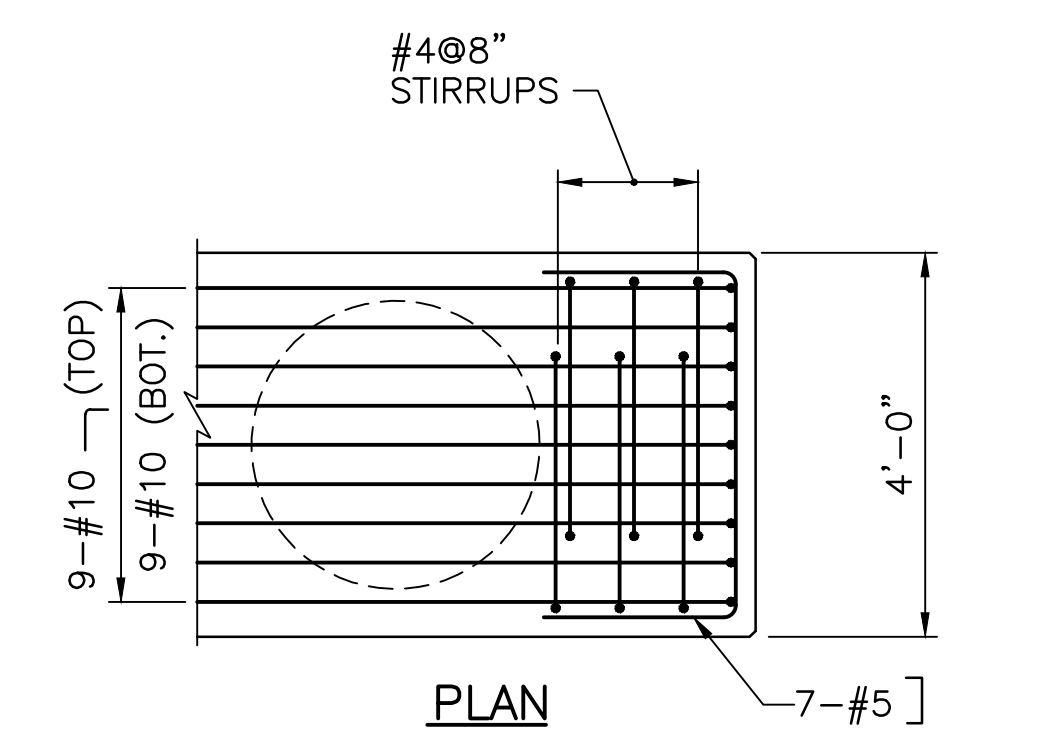
SECTION A
SCALE: 3/4"=1'-0"



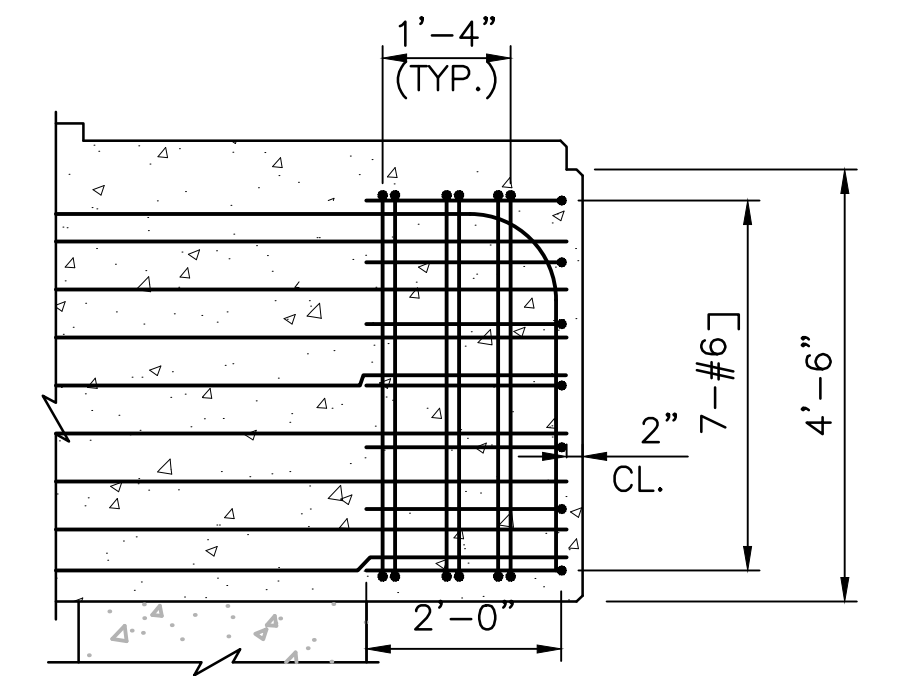
SECTION B
SCALE: 1/2"=1'-0"



SECTION C
SCALE: 3/4"=1'-0"



PLAN



ELEVATION

NOTE:
COLUMN REINFORCEMENT NOT SHOWN FOR CLARITY.
END OF PIER CAP REINFORCING DETAILS
SCALE: 1/2"=1'-0"

LEGEND

■ DENOTES AREAS OF NEW CONCRETE



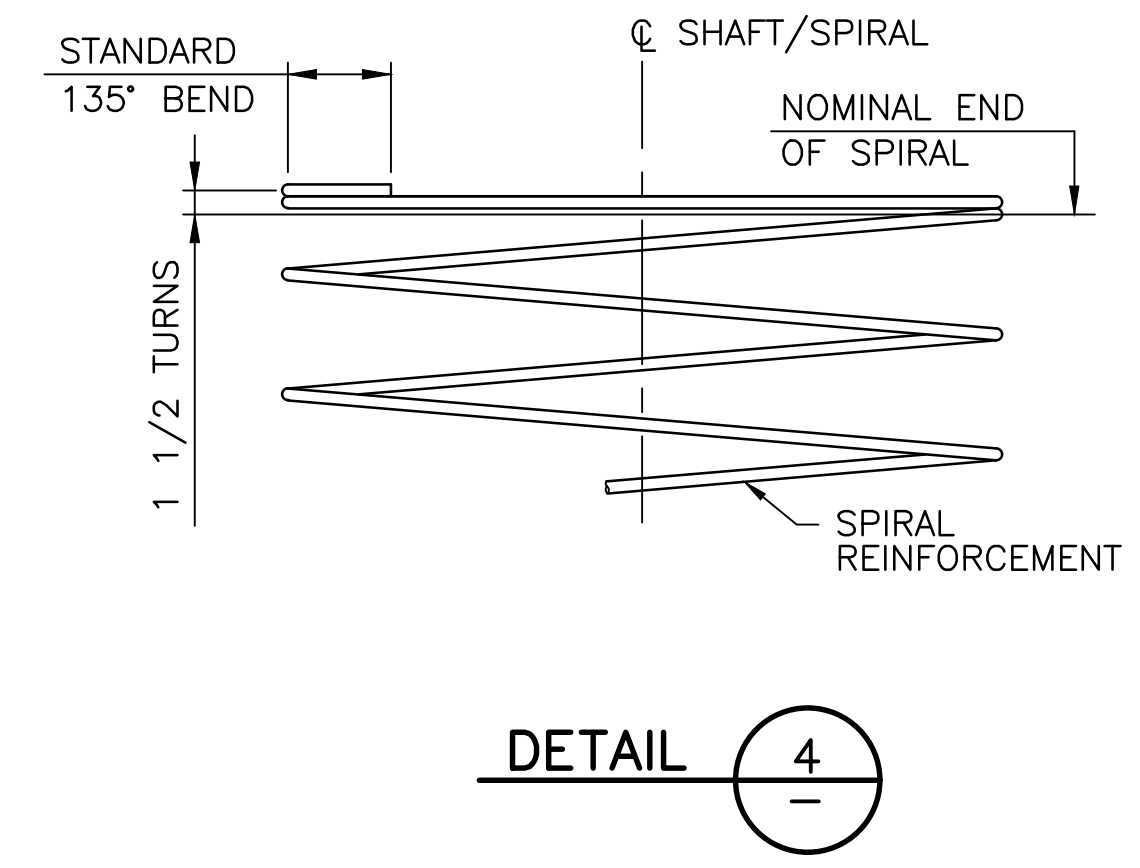
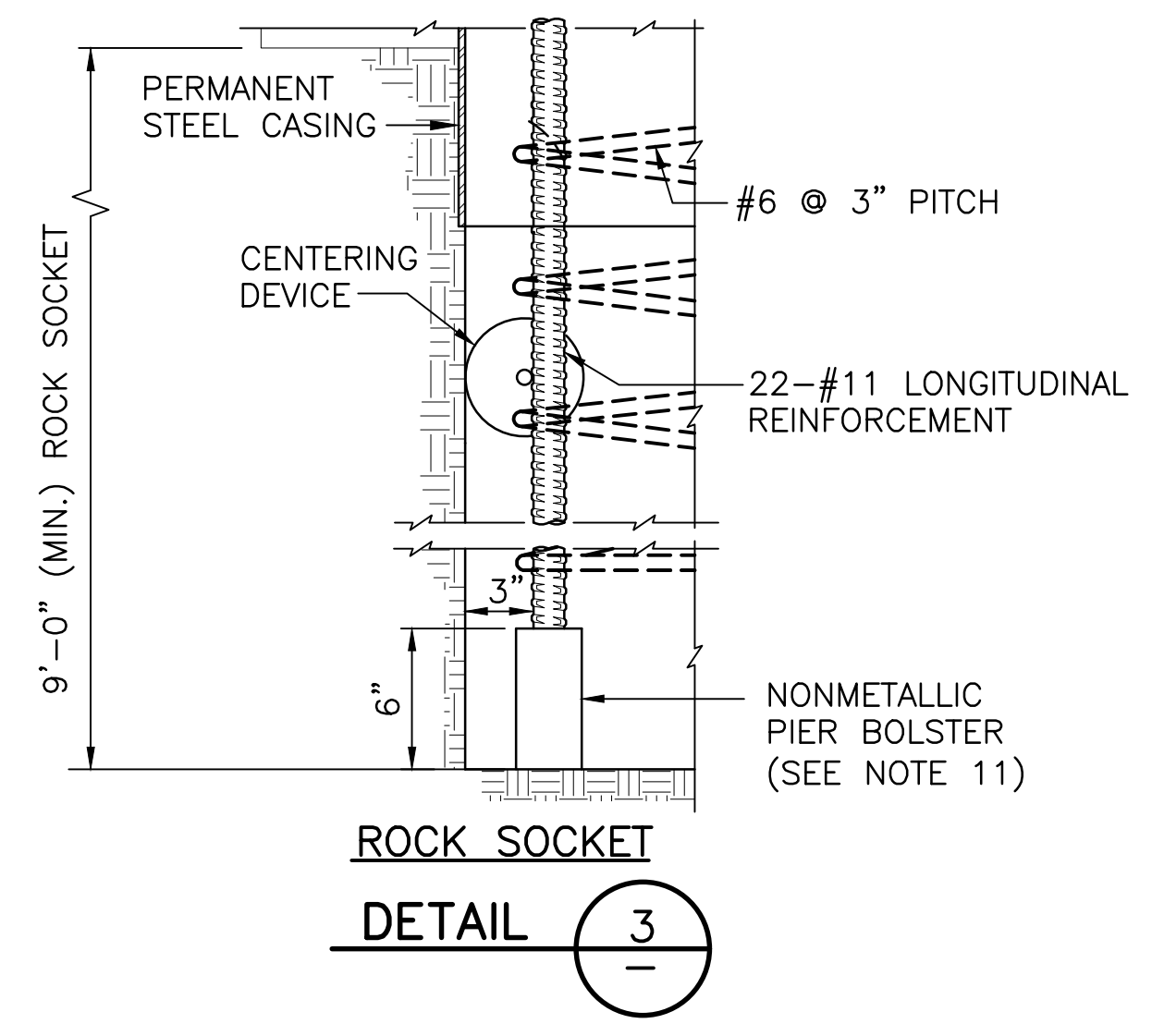
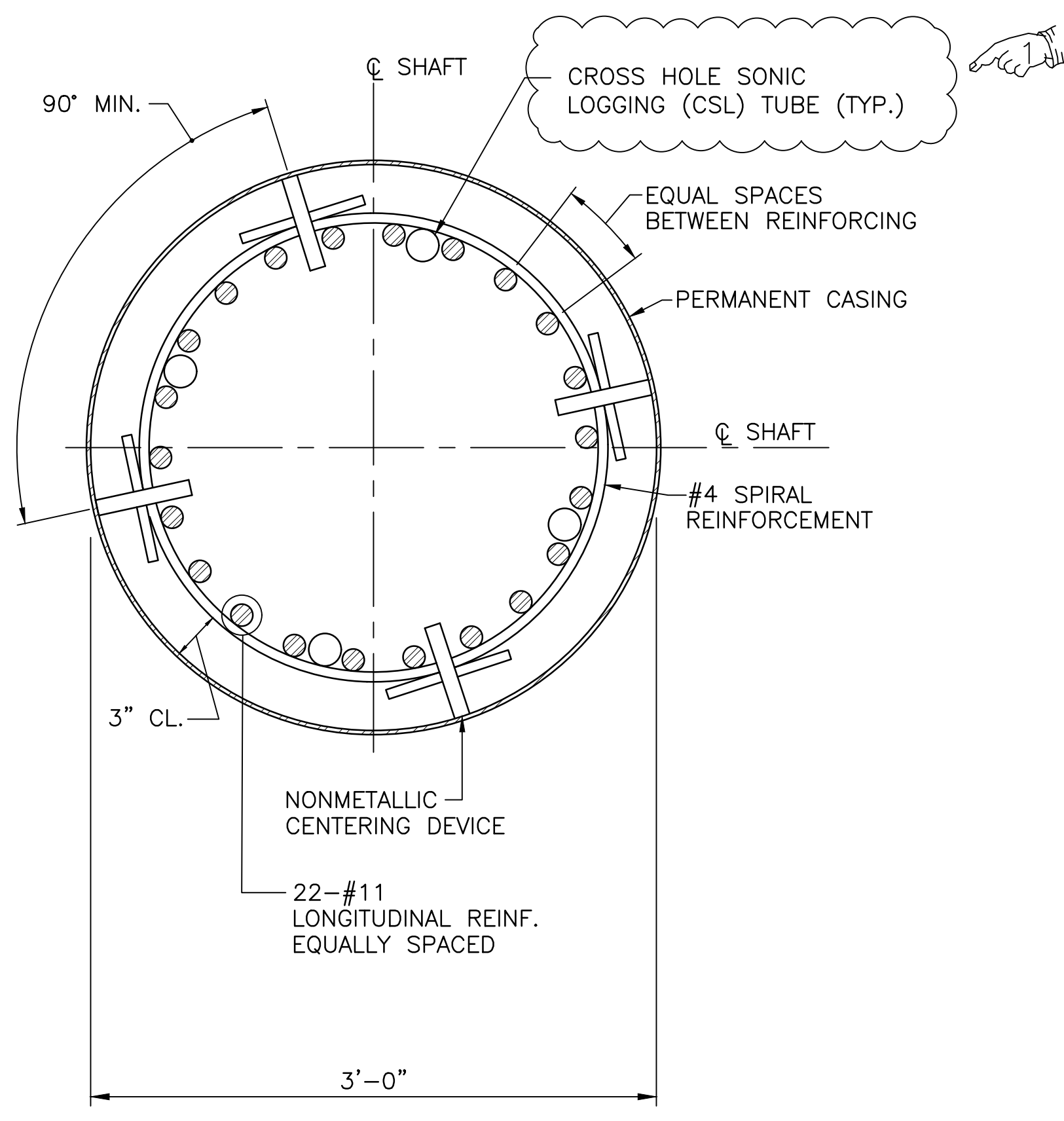
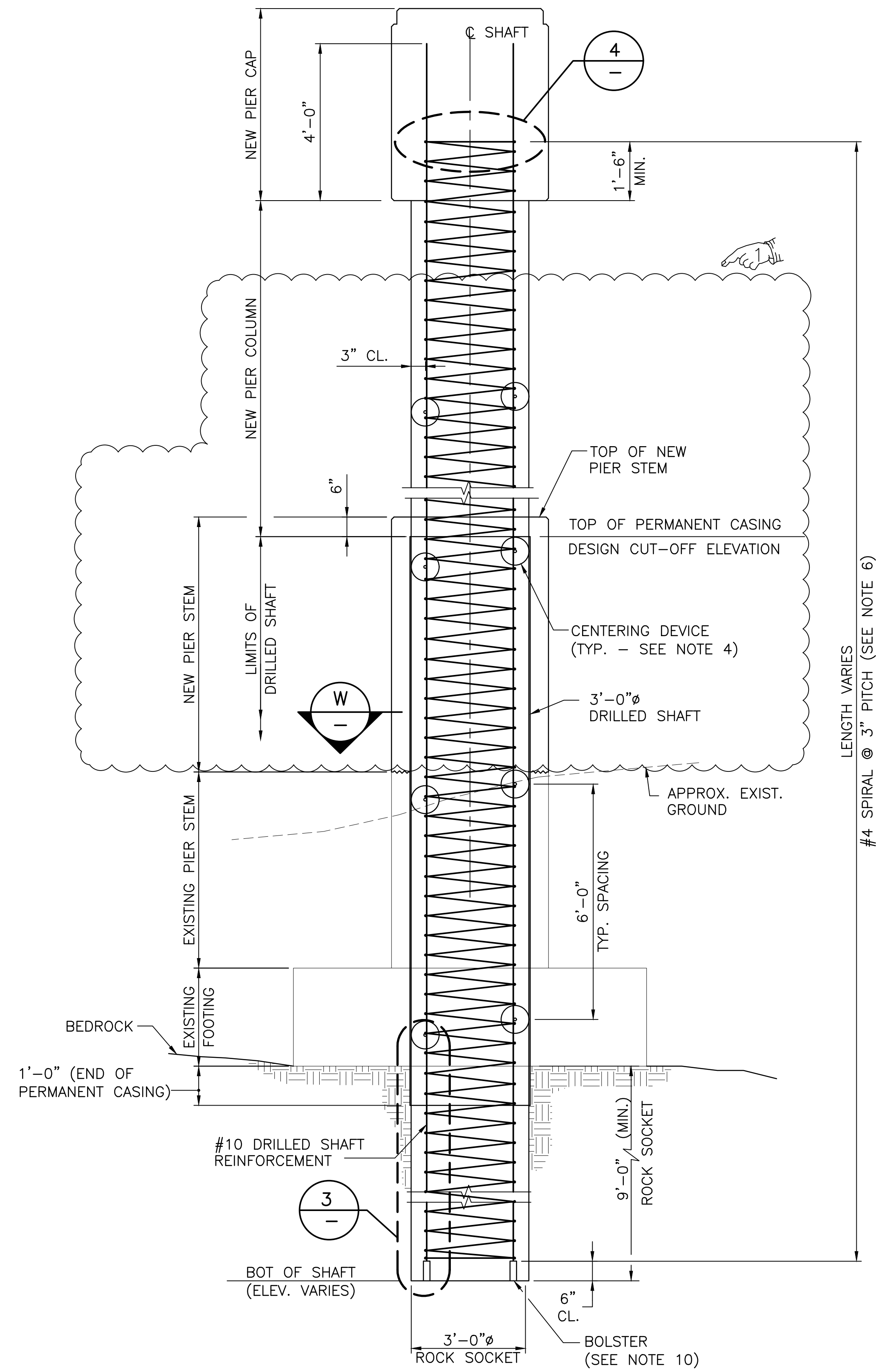
REVISIONS		
NO.	DATE	BY
1	3/27/20	DT

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

BRIDGE REPLACEMENT
MOHEGAN BRIDGE
BRIDGE No. 673 (43A)
BURRILLVILLE, RHODE ISLAND

PIER REINFORCING DETAILS

CHECKED BY _____ DATE _____ SCALE AS SHOWN



NOTES:

1. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL A METHOD TO REINFORCE THE DRILLED SHAFT REINFORCEMENT CAGE DURING LIFTING OPERATIONS AND INSTALLATION. REINFORCEMENT MAY BE INCREASED AS REQUIRED TO ASSIST WITH HANDLING AND PLACEMENT.
2. DRILLING SHALL BE PERFORMED IN SUCH A MANNER AS TO PREVENT LOSS OF GROUND BEYOND THE SPECIFIED DIAMETER. THE USE OF SURFACE CASING, TEMPORARY CASINGS, DRILLING MUD, DRILLING SLURRY OR OTHER METHODS SHALL BE EMPLOYED TO PREVENT COLLAPSE OF THE BORE HOLE AND LOSS OF GROUND BELOW THE BOTTOM OF THE TEMPORARY OR PERMANENT CASING.
3. THE BOTTOM OF THE EXCAVATION SHALL BE CLEANED OF LOOSE MATERIAL USING EQUIPMENT ACCEPTABLE TO THE ENGINEER PRIOR TO PLACING REINFORCEMENT STEEL AND CONCRETE.
4. NONMETALLIC CENTERING DEVICES SHALL BE OF THE TYPE, AND LOCATED AS SUCH, TO ENSURE THAT THE MINIMUM REINFORCING BAR CLEARANCES SHOWN ARE MAINTAINED.
5. LONGITUDINAL REINFORCEMENT SHALL NOT BE PERMITTED EXCEPT WHERE SHOWN ON THESE DETAILS.
6. SPIRAL REINFORCING SHALL BE SUPPLIED CONTINUOUS FOR THE ENTIRE LENGTH OF THE DRILLED SHAFT.
7. MECHANICAL COUPLERS SHALL BE APPROVED BY THE ENGINEER AND SHALL BE CAPABLE OF DEVELOPING AT LEAST 125% OF THE ULTIMATE REBAR STRENGTH.
8. AT FREE AND DISCONTINUOUS ENDS OF SPIRALS, THE ENDS SHALL BE ANCHORED AS SHOWN IN DETAIL 4.
9. THE BOTTOM OF SHAFT ELEVATIONS SHOWN ON THE PLANS IS APPROXIMATE, AND MAY VARY BASED ON ACTUAL DRILLING CONDITIONS. THE CONTRACTOR SHALL ADJUST THE REINFORCING LENGTH AS REQUIRED TO SUIT THE FINAL SHAFT DEPTH.
10. EACH LONGITUDINAL REINFORCING BAR SHALL BE SUPPORTED BY A NONMETALLIC DURABLE MATERIAL BOLSTER.
11. PERMANENT STEEL CASING SHALL CONFORM TO ASTM 252 GRADE 3 (FY=50 KSI MIN.) STEEL.

THIS SHEET NOT TO SCALE



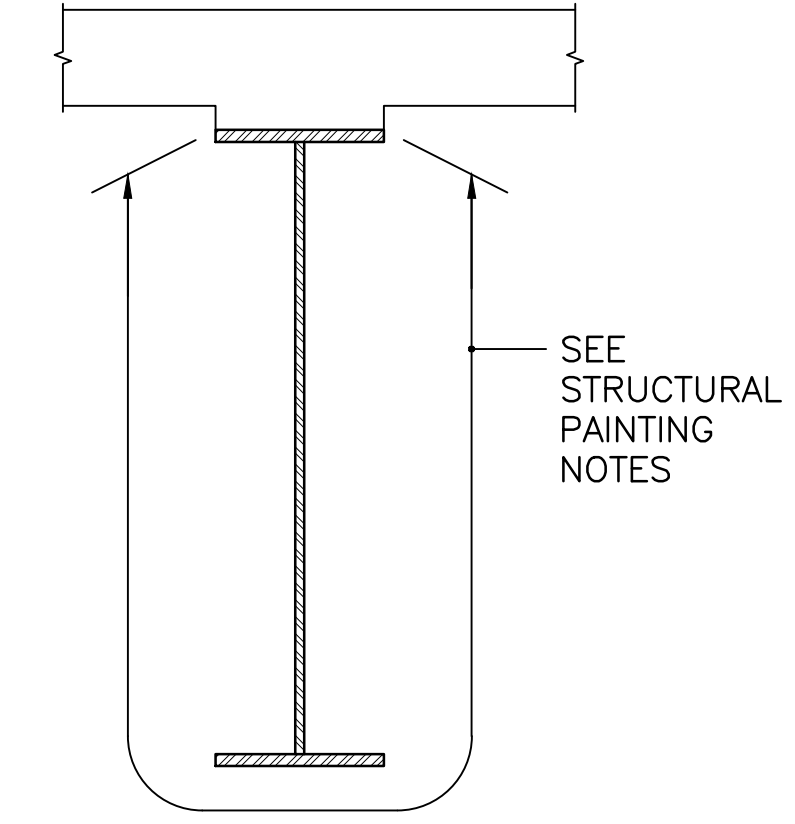
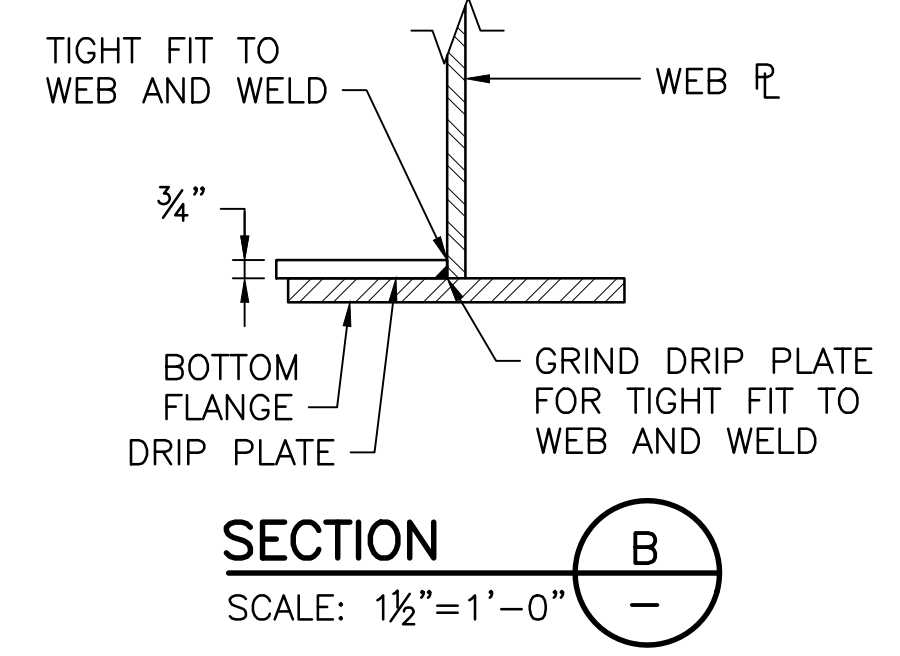
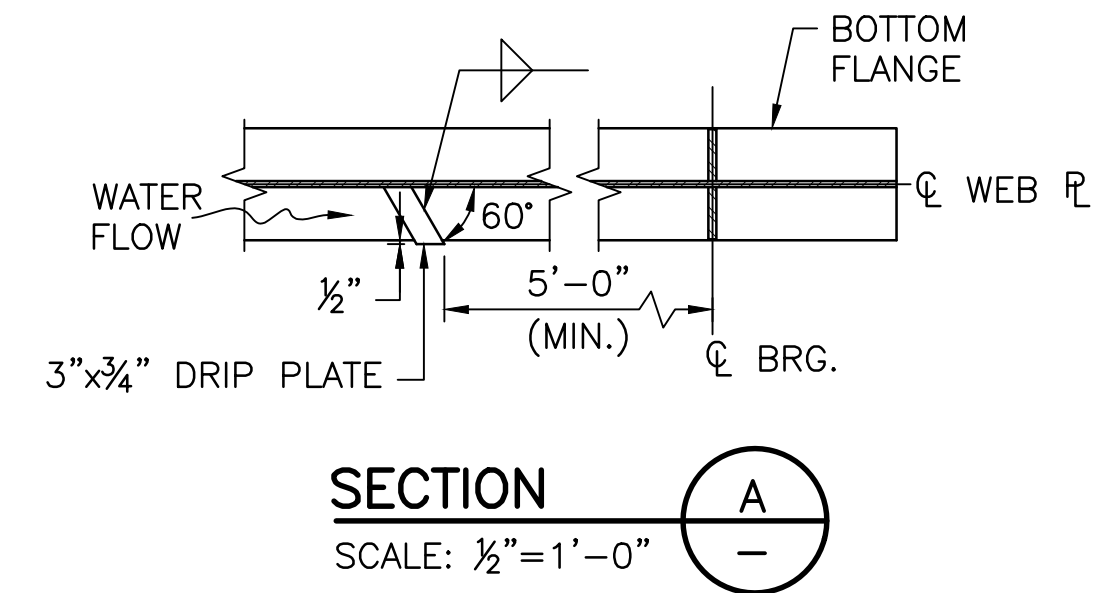
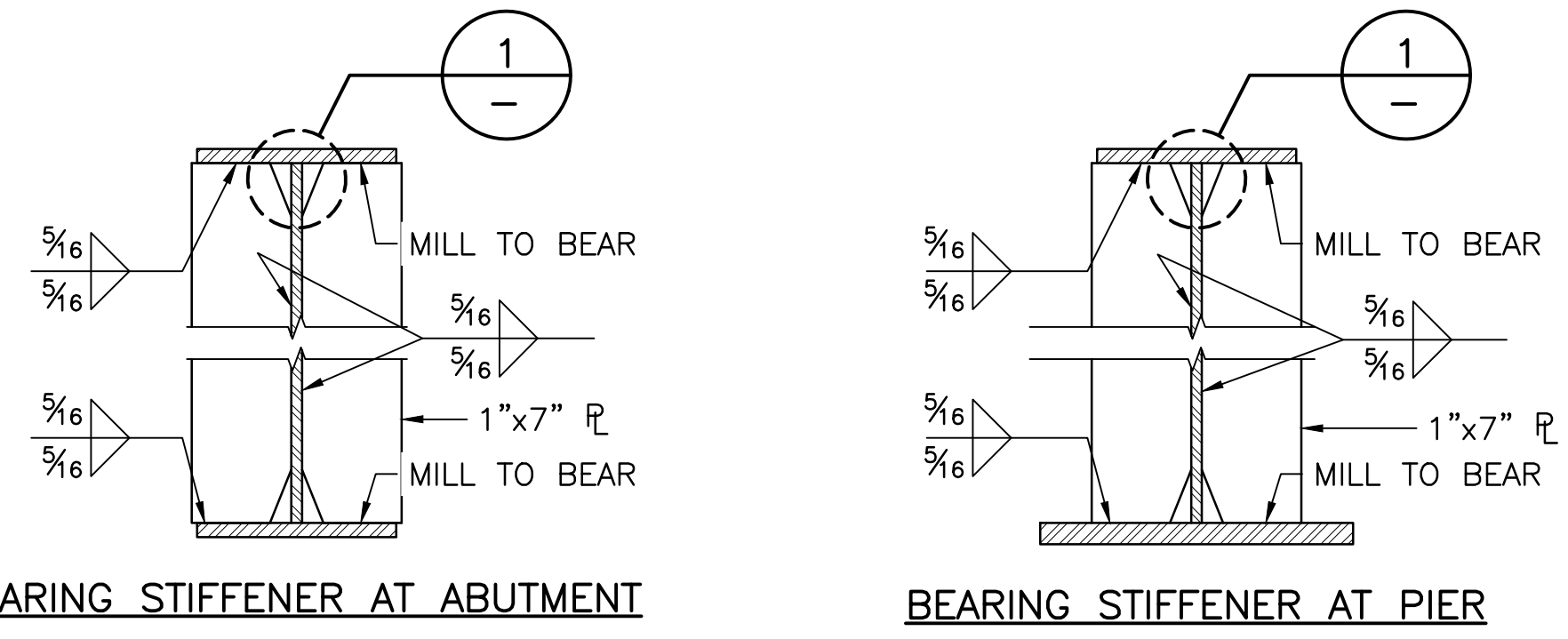
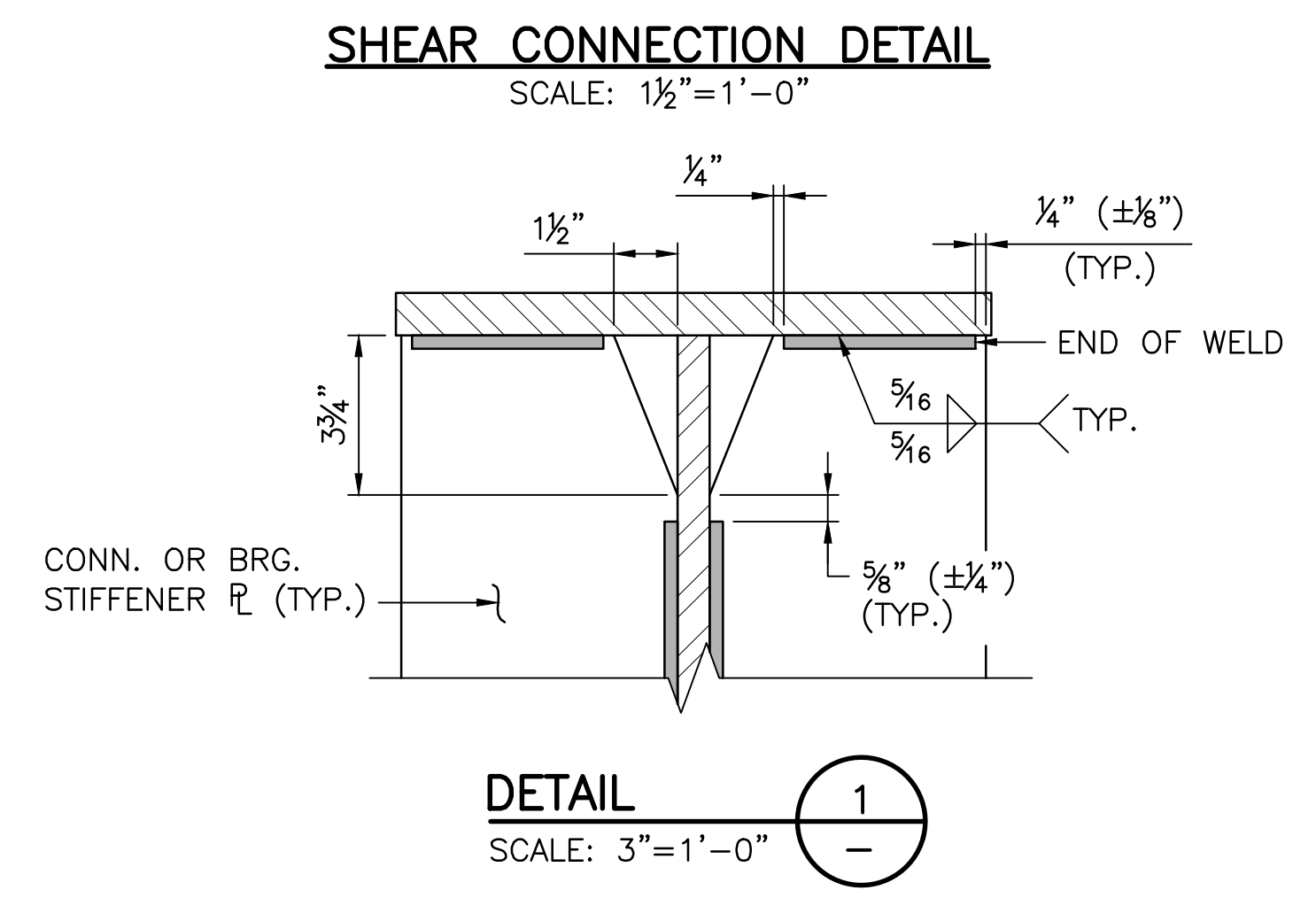
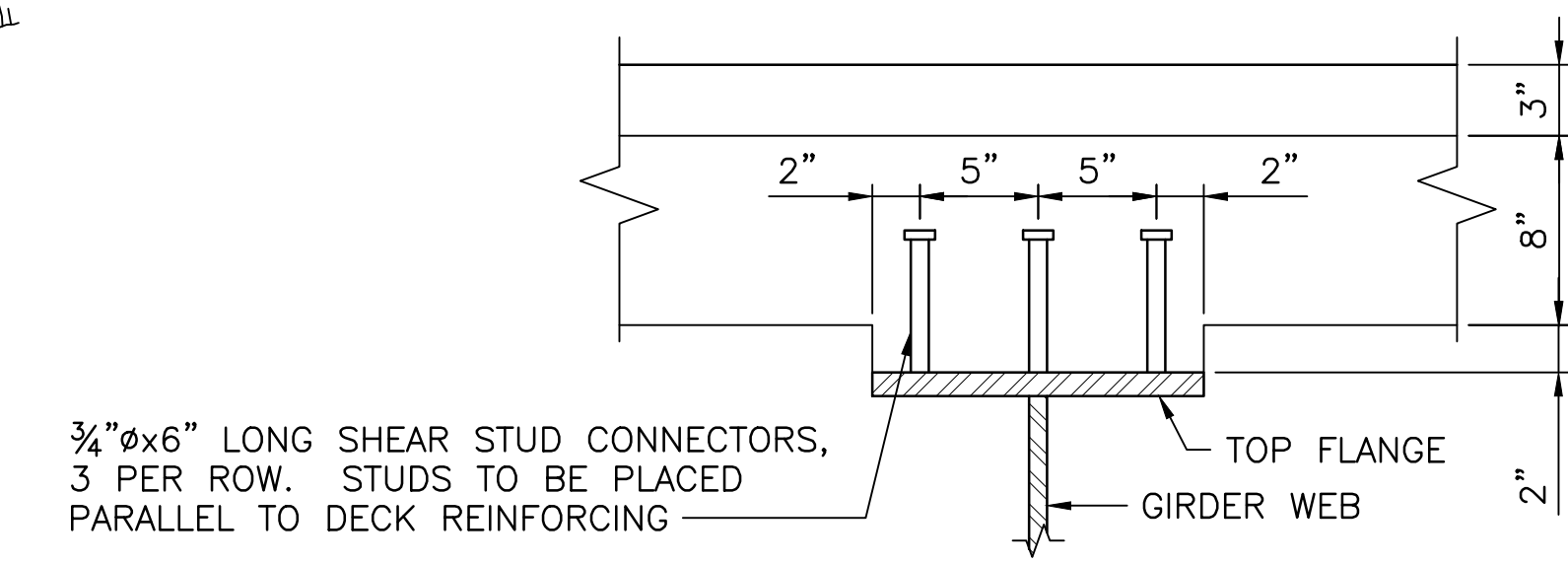
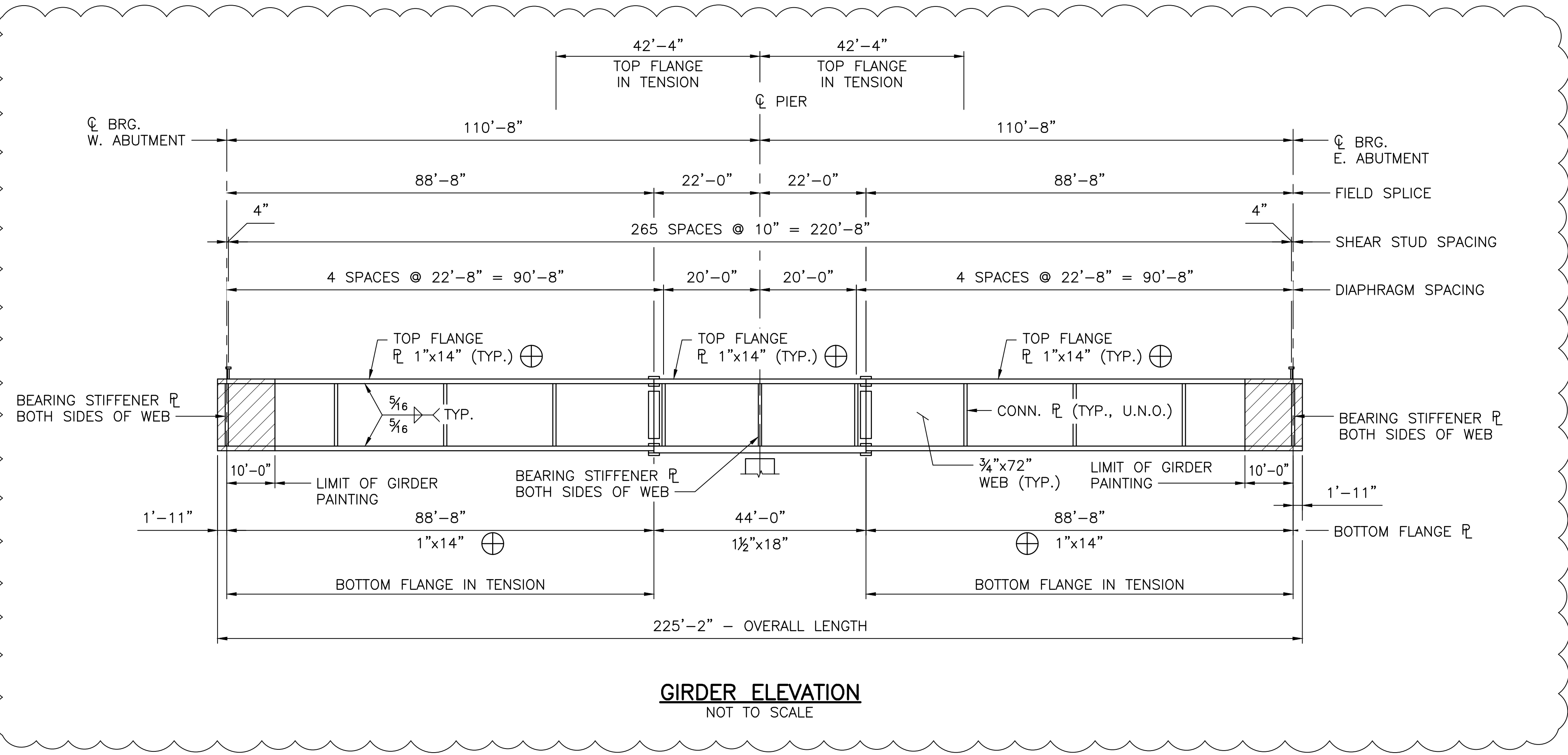
REVISIONS		
NO.	DATE	BY
1	3/27/20	DT

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

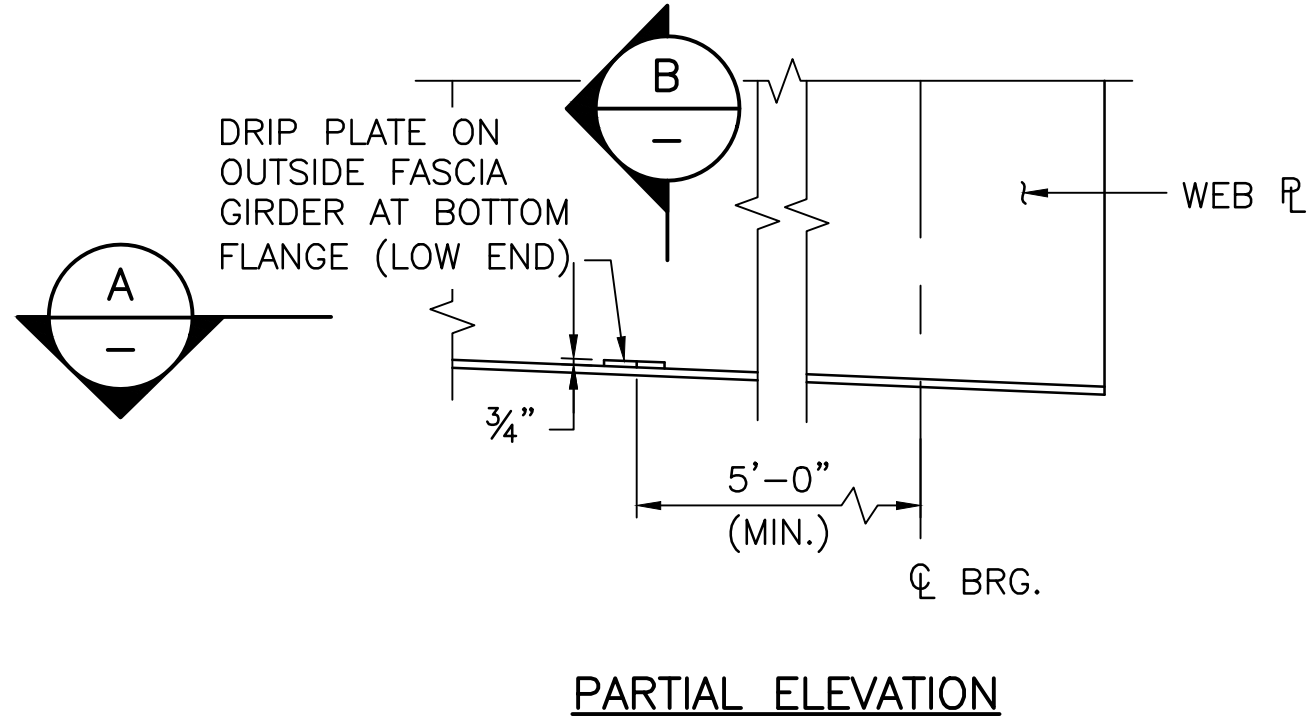
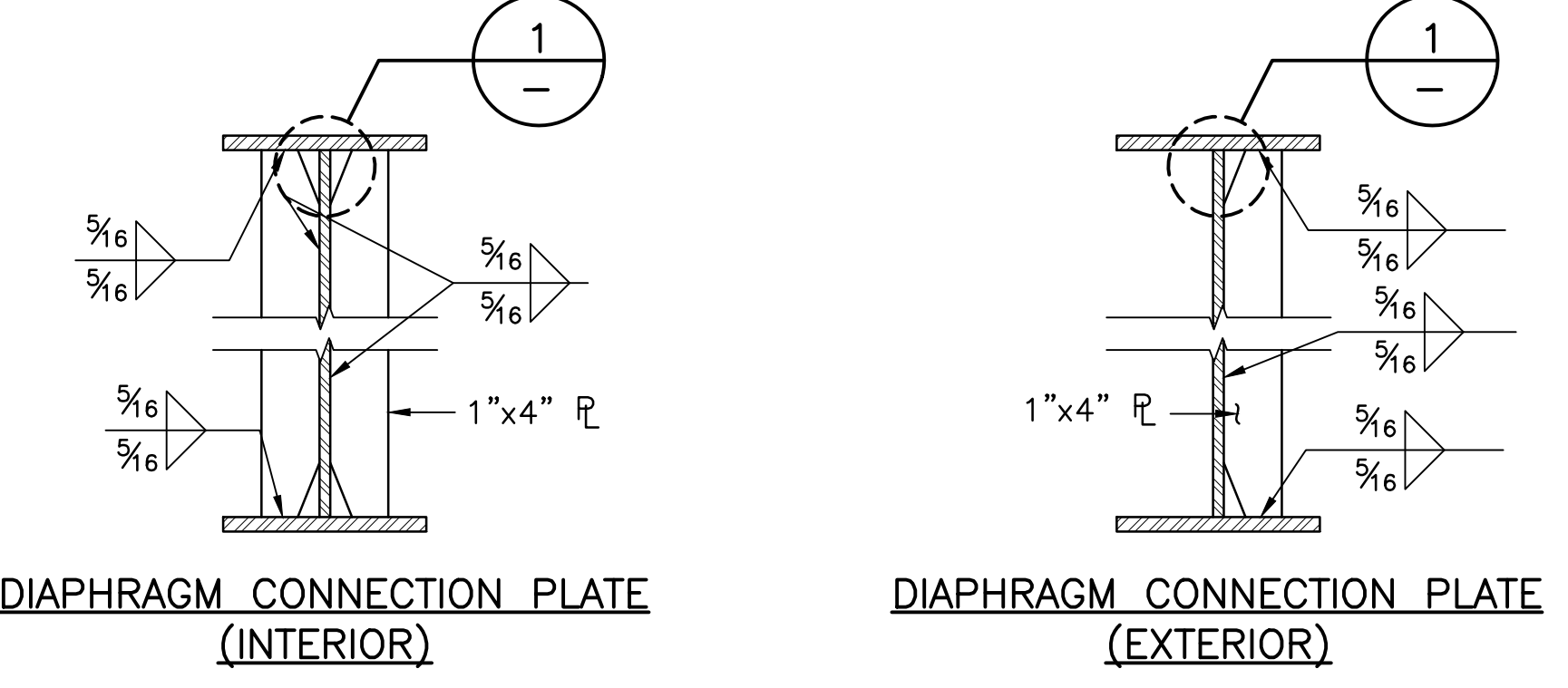
BRIDGE REPLACEMENT
MOHEGAN BRIDGE
BRIDGE No. 673 (43A)
BURRILLVILLE, RHODE ISLAND

DRILLED SHAFT DETAILS

CHECKED BY _____ DATE _____ SCALE NO SCALE



- STRUCTURAL PAINTING NOTES:**
1. PAINT ALL GIRDERS, END DIAPHRAGMS AND STIFFENERS 10'-0" FROM CENTERLINE OF BEARING AT ABUTMENTS.
 2. PAINTED LIMITS SHOWN SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE COLOR SHALL BE DARK BROWN, TO MATCH WEATHERING STEEL COLOR (FEDERAL STD. 595B CHIP No. 30045). ALL DAMAGES DUE TO HANDLING, SHIPPING, ERECTION AND VISUAL IMPERFECTIONS SHALL RECEIVE FIELD SURFACE PREPARATION, FIELD TOUCH-UP AND REPAIRED TO BLEND WITH FINISH COATS EQUIVALENT TO THE ORIGINAL SYSTEMS, IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS AND THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE STATE.



- NOTES:**
1. ALL BEARING STIFFENERS SHALL BE PLUMB.
 2. END OF GIRDER SHALL PLUMB UNDER FULL DEAD LOAD.
 3. ⊕ INDICATES CHARPY V-NOTCH TEST REQUIREMENT (ON TENSION MEMBERS).
 4. ALL DIMENSIONS SHOWN ARE ALONG C OF GIRDER.

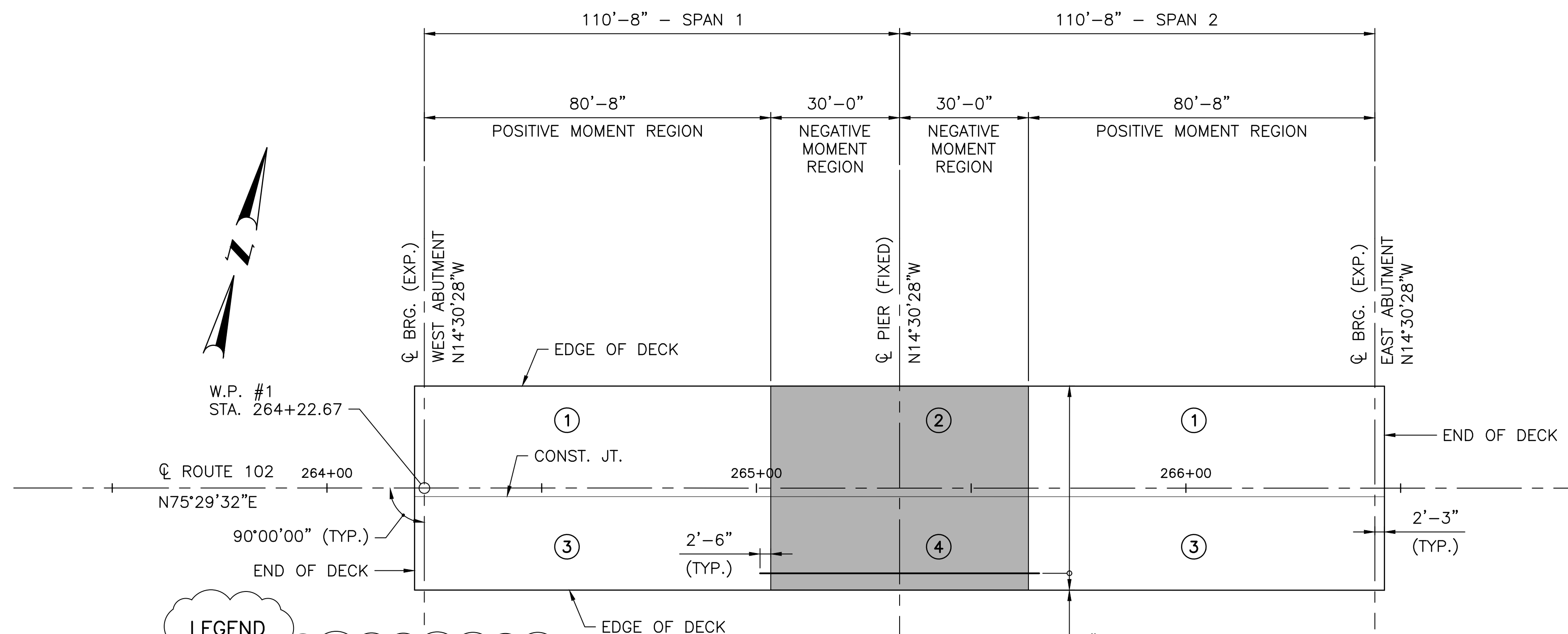
STIFFENER AND CONNECTION PLATES
SCALE: 1" = 1'-0"

DRIP PLATE DETAILS

REVISIONS		
NO.	DATE	BY
1	3/25/20	DT

RHODE ISLAND	
DEPARTMENT OF TRANSPORTATION	
BRIDGE REPLACEMENT	
MOHEGAN BRIDGE	
BRIDGE No. 673 (43A)	
BURRILLVILLE,	RHODE ISLAND
GIRDER DETAILS	
CHECKED BY _____	DATE _____ SCALE AS SHOWN





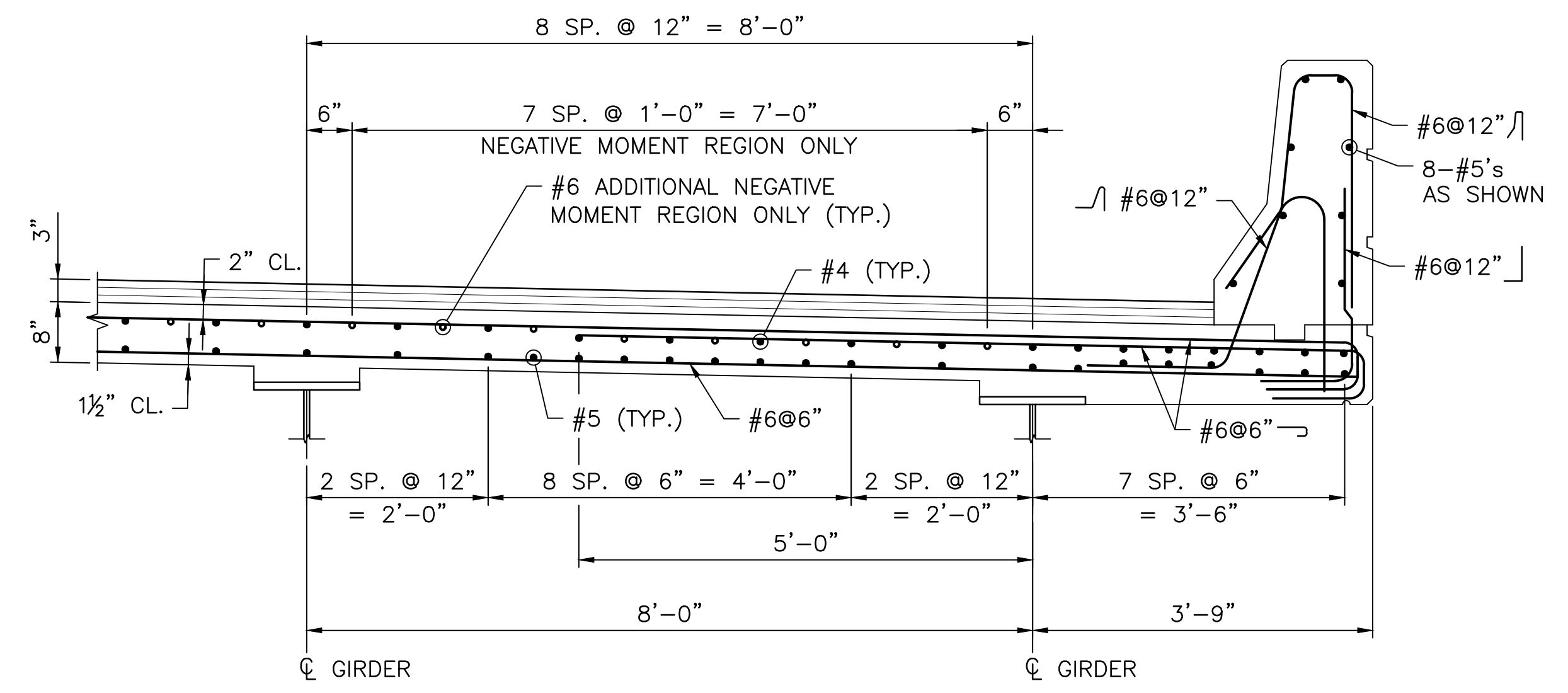
LEGEND
 # DECK POUR SEQUENCE NUMBER

DECK PLACEMENT SEQUENCE NOTES:

1. THE CONTRACTOR SHALL CAST THE SPECIFIC REGIONS OF THE DECK IN THE ORDER INDICATED BY THE DECK POURING SEQUENCE NUMBER.
2. POSITIVE MOMENT REGIONS OF EACH SPAN, DESIGNATED AS SECTION ① OR ③, SHALL BE CAST FIRST, DURING EACH PHASE OR CONSTRUCTION. CONCRETE WITHIN EACH POSITIVE MOMENT REGION SHALL BE CAST SIMULTANEOUSLY.
3. THE NEGATIVE MOMENT REGION, DESIGNATED AS SECTION ② OR ④ SHALL BE CAST A MINIMUM OF 3 DAYS AFTER SECTION ① OR ③ RESPECTIVELY.
4. THE CONTRACTOR HAS THE OPTION OF PLACING ALL CONCRETE FOR THE DECK SLAB WITHIN ONE CONSTRUCTION PHASE WITHOUT THE TRANSVERSE CONSTRUCTION JOINTS PROVIDED THE APPROVED CONCRETE MIX DESIGN CONTAINS A RETARDER WHICH WILL ENSURE ALL CONCRETE REMAINS PLASTIC THROUGHOUT THE PLACEMENT PROCESS. WHEN THIS OPTION IS CHOSEN BY THE CONTRACTOR, THE DECK POUR SHALL COMMENCE AT THE WEST AND EAST ABUTMENTS CONCURRENTLY AND PROCEED FROM EACH END TOWARD THE PIER. OTHERWISE, THE CONTRACTOR SHALL FOLLOW THE DECK PLACEMENT SEQUENCE AS INDICATED.
5. THE CONCRETE MIX DESIGN SHALL ENSURE ADEQUATE CONSOLIDATION CAN BE ACHIEVED.

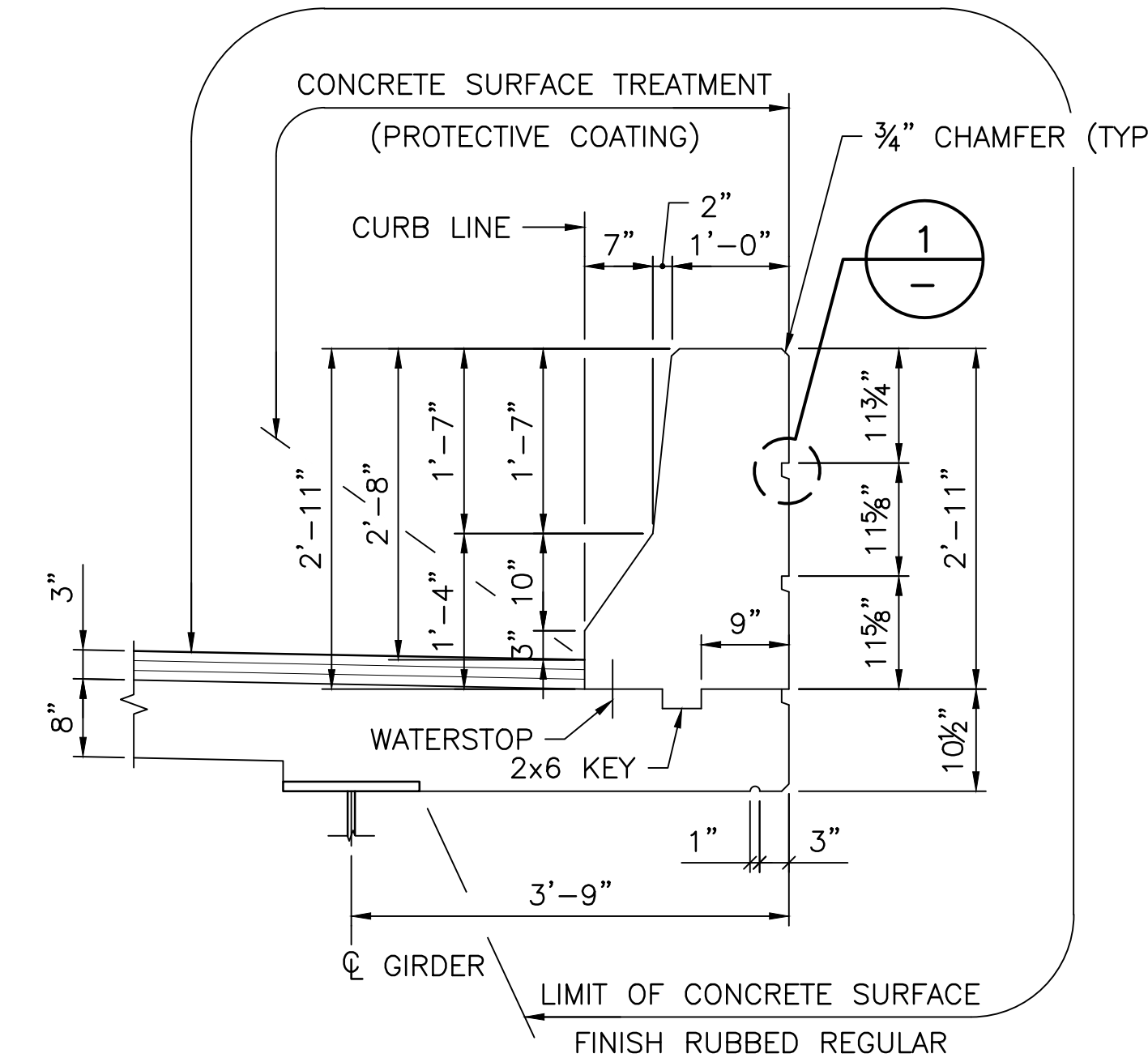
NEGATIVE MOMENT REINFORCING AND DECK PLACEMENT SEQUENCE PLAN

SCALE: 1"=20'-0"



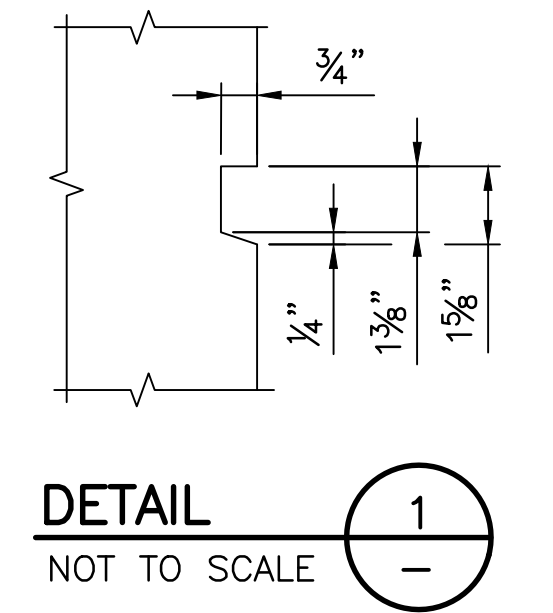
TYPICAL DECK REINFORCING DETAIL

SCALE: 3/4"=1'-0"



SECTION THRU SAFETY BARRIER

SCALE: 3/4"=1'-0"



DECK NOTES:

1. TRANSVERSE REINFORCEMENT LISTED AS STRAIGHT SHALL BE SHOP OR FIELD BENT AS REQUIRED TO PROVIDE MINIMUM COVER.
2. DECK SLAB REINFORCING COVER SHALL HAVE TOLERANCE OF (+)1/4", (-)0" FOR TOP BARS AND (+)3/8", (-)0" FOR BOTTOM BARS.
3. DECK FORMS SHALL BE OF THE REMOVABLE TYPE THAT WILL PRODUCE THE DIMENSIONS SHOWN ON THE PLANS. AS AN ALTERNATIVE, STAY-IN-PLACE (SIP) FORMS WILL BE ALLOWED FOR USE ON THIS PROJECT. SHOULD THE CONTRACTOR CHOSE TO USE SIP FORMS, THE CONTRACTOR SHALL SUBMIT COMPLETE DESIGN AND DETAILS IN ACCORDANCE WITH CODE 105.02 AND IN ACCORDANCE WITH THE REQUIREMENTS INDICATED IN THE CONTRACT DRAWINGS.
4. CHAIRS SHALL BE SPACED TO PROVIDE THE REQUIRED CONCRETE COVER WITH THE SPECIFIED TOLERANCES. MAXIMUM SPACING OF CHAIRS SHALL BE 5'-0" ON CENTER, PREFERABLY LOCATED AT THE INTERSECTION OF REINFORCEMENT. CHAIRS SHALL HAVE APPROVED CORROSION PROTECTION, (I.E. GALVANIZED, PLASTIC COATED, ETC.).
5. ALL TRANSVERSE DECK REINFORCEMENT TO BE PLACED PERPENDICULAR TO BEAMS.
6. DECK CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH THE R.I. STANDARD SPECIFICATIONS.
7. SEE "DECK REINFORCING AND SECTION SHEET 2" SHEET FOR LONGITUDINAL CONSTRUCTION JOINT DETAIL.



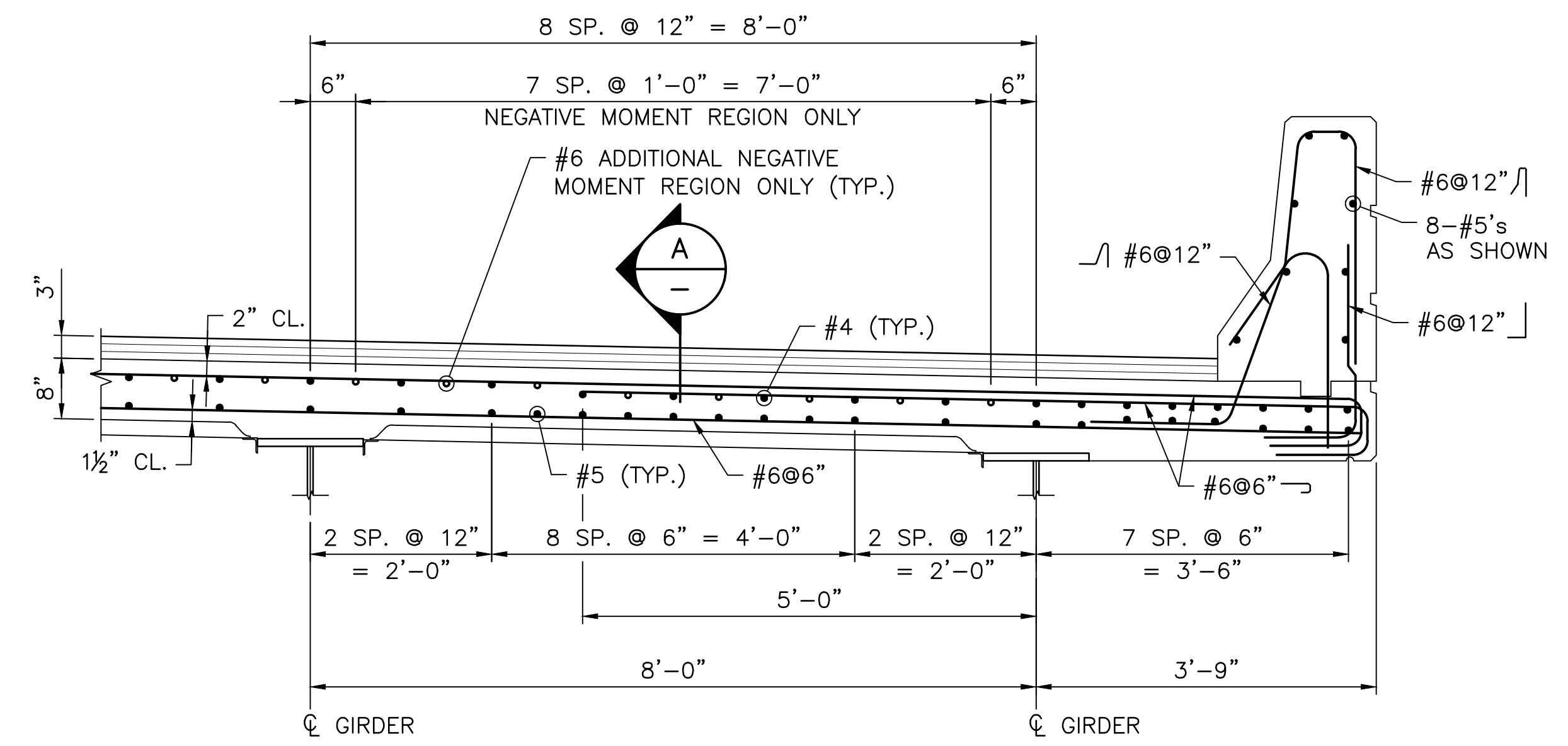
REVISIONS		
NO.	DATE	BY
1	3/25/20	DT

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

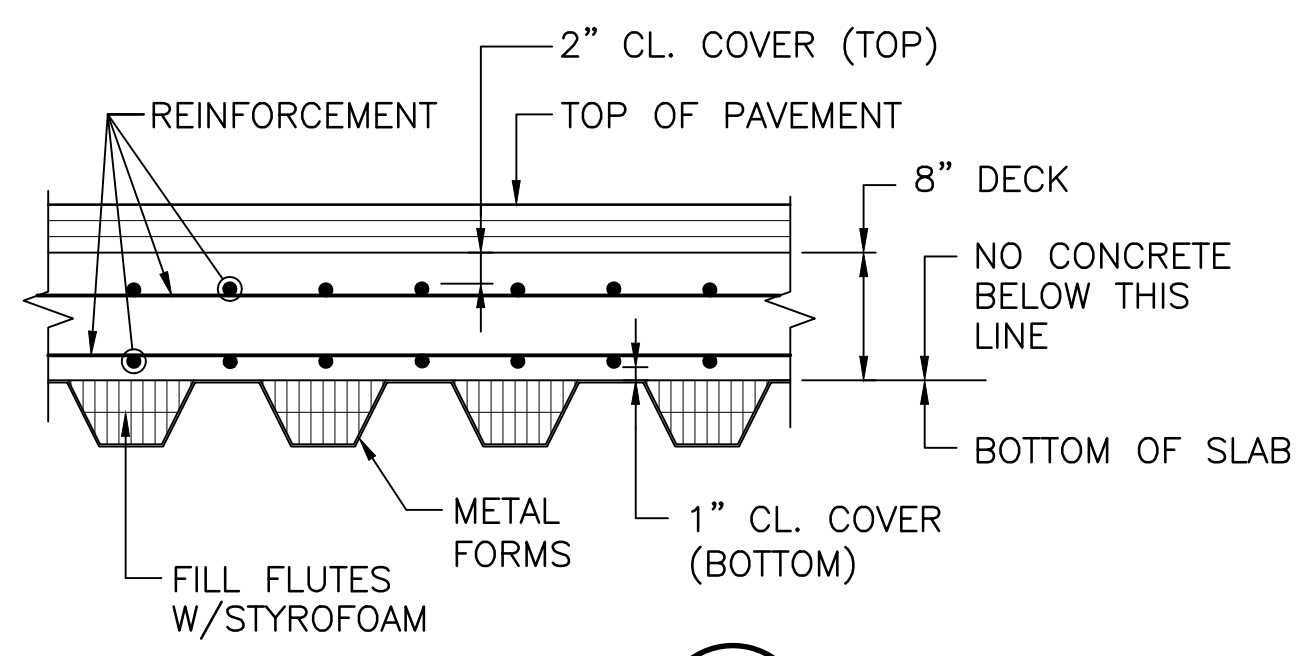
BRIDGE REPLACEMENT
MOHEGAN BRIDGE
BRIDGE No. 673 (43A)
BURRILLVILLE, RHODE ISLAND

DECK REINFORCING AND SECTIONS SHEET 1

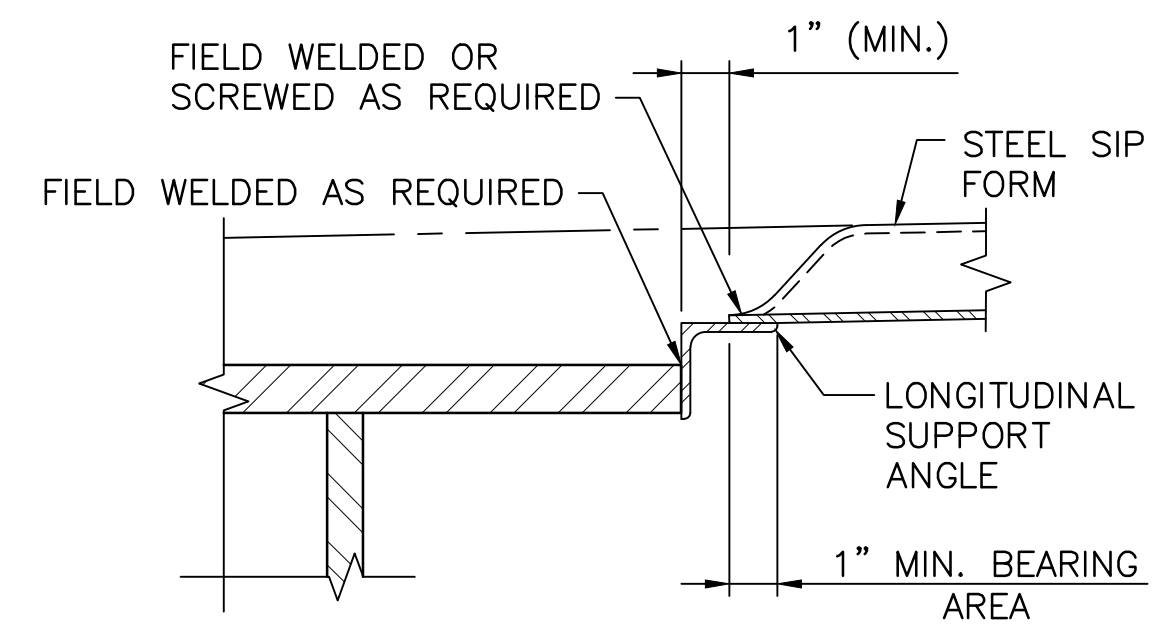
CHECKED BY _____ DATE _____ SCALE AS SHOWN



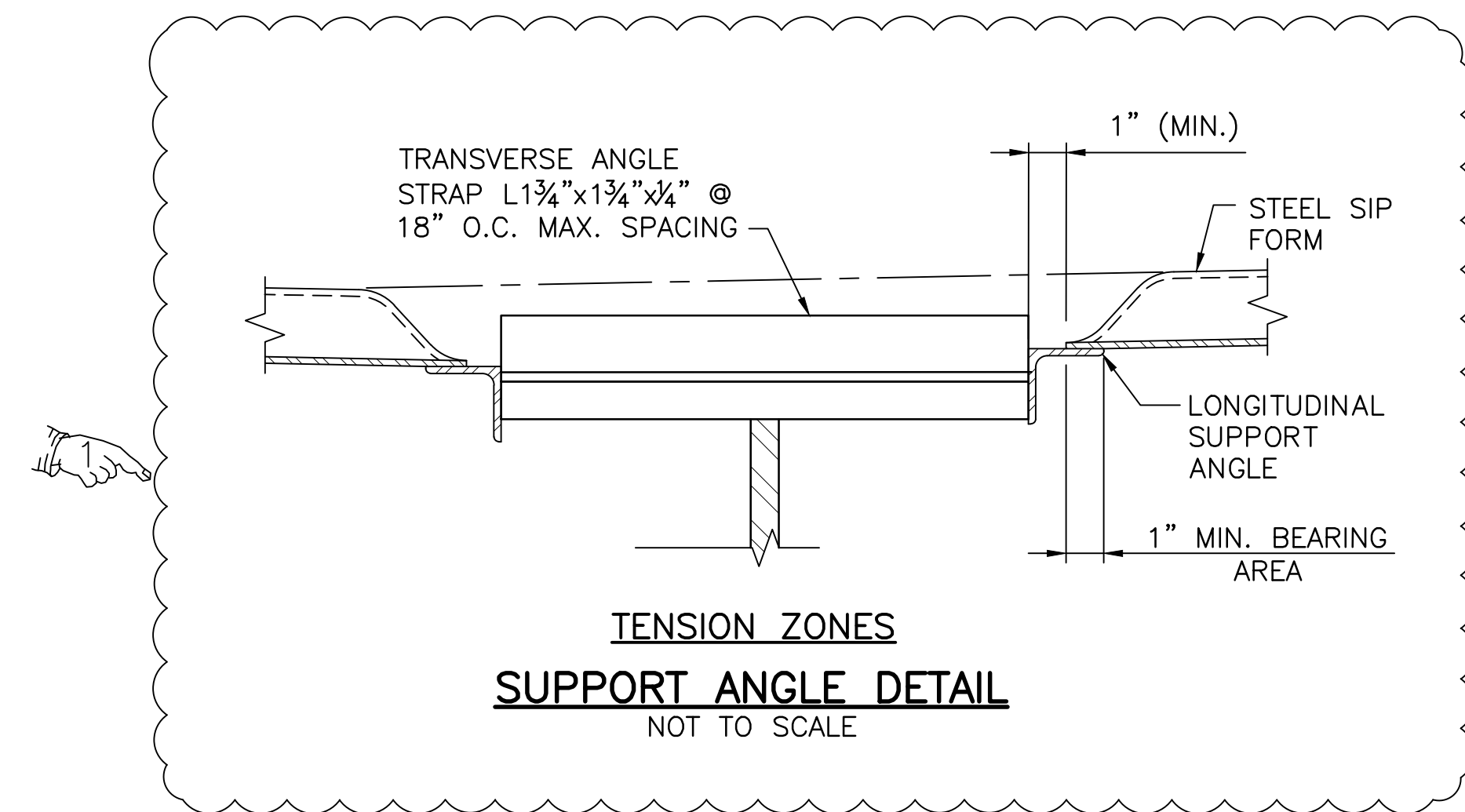
OPTIONAL STAY IN PLACE FORM DETAIL
SCALE: 3/4"=1'-0"



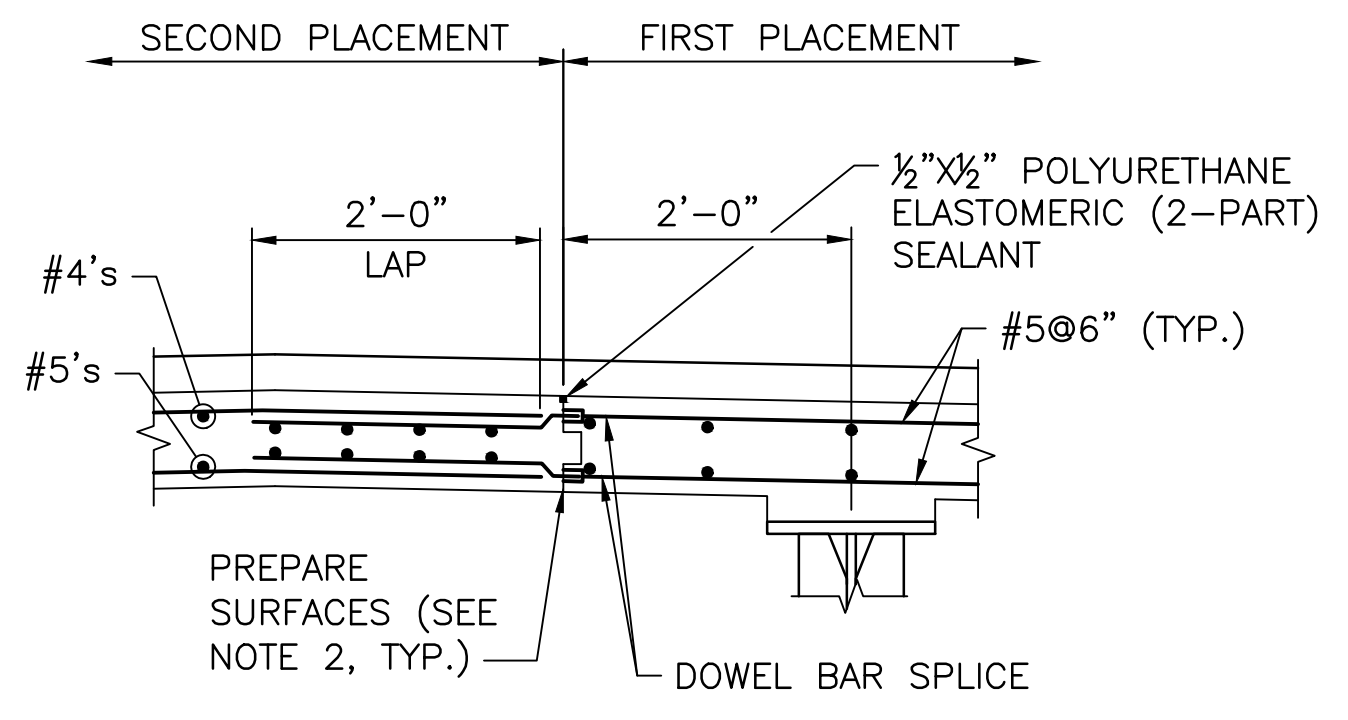
SECTION A-A
SCALE: 1"=1'-0"



NON-TENSION ZONES SUPPORT ANGLE DETAIL
NOT TO SCALE



TENSION ZONES SUPPORT ANGLE DETAIL
NOT TO SCALE



CONSTRUCTION JOINT IN DECK
SCALE: 3/4"=1'-0"

- NOTES:**
- BRIDGE DECK SHALL BE PLACED IN ACCORDANCE WITH THE PLACEMENT SEQUENCE SHOWN ON THE PLANS.
 - THE SURFACE OF THE PREVIOUSLY CAST CONCRETE SHALL BE BLAST CLEANED, ROUGHENED, WETTED WITH CLEAN WATER, AND THEN FLUSHED WITH A MORTAR COMPOSED OF EQUAL PARTS OF THE CEMENT AND SAND SPECIFIED FOR THE NEW CONCRETE, BEFORE NEW CONCRETE IS PLACED ADJACENT THERETO. NEW CONCRETE SHALL BE PLACED BEFORE MORTAR HAS TAKEN INITIAL SET.

S.I.P. NOTES

- FORM ENDS SHALL BE CRIMPED CLOSED IN A TAPERED MANNER. SEPARATE END CLOSURE PIECES WILL NOT BE ALLOWED.
- SUPPORT ANGLES SHALL BE PLACED IN THE "LEG DOWN" POSITION WHERE POSSIBLE. HOWEVER, WHERE THE "LEG UP" POSITION IS NECESSARY, THE UPPER MOST PORTION OF THE ANGLE SHALL NOT PROJECT MORE THAN 1 INCH ABOVE THE TOP OF THE BEAM. THE CONTRACTOR SHALL HAVE AN ASSORTMENT OF ANGLES OF VARIOUS SIZES AVAILABLE ON THE SITE TO CONFORM TO THIS REQUIREMENT.
- S.I.P. FORMS SHALL BE DESIGNED FOR THE DEAD LOAD OF THE FORM AND THE CONCRETE PLUS A MINIMUM 50 POUNDS PER SQUARE FOOT FOR CONSTRUCTION LOADS.
- MAXIMUM DEFLECTION UNDER THE WEIGHT OF FORMS, REINFORCEMENT AND CONCRETE, OR A MINIMUM OF 120 POUNDS PER SQUARE FOOT SHALL NOT EXCEED THE LESSER OF 1/180 OF THE FORM SPAN OR 1/2 INCH. THE DESIGN SPAN FOR FORMS SHALL BE THE CLEAR DISTANCE BETWEEN BEAM FLANGES MEASURED PARALLEL TO THE FORM FLUTES MINUS 2 INCHES.

REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY		
1	3/25/20	DT	BRIDGE REPLACEMENT MOHEGAN BRIDGE BRIDGE No. 673 (43A) BURRILLVILLE, RHODE ISLAND	
			DECK REINFORCING AND SECTIONS SHEET 2	
			CHECKED BY _____	DATE _____ SCALE AS SHOWN

Table of Contents - Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
R.I. Contract No. - 2020-CB-023
FAP Nos: BRO-0673(002)

ItemCode	Description	Page
201.0402	** ITEM DELETED **	1
201.0409	REMOVE AND DISPOSE FLEXIBLE PAVEMENT	1
201.0415	REMOVE AND DISPOSE GUARDRAIL AND POST ALL TYPES	1
201.0419	REMOVE AND DISPOSE FENCE	1
201.0428	REMOVE AND DISPOSE FRAME AND GRATE OR FRAME AND COVER	2
201.0610	REMOVE AND DISPOSE DIRECTIONAL, WARNING, REGULATORY, SERVICE, AND STREET SIGNS	2
201.9905	REMOVE AND SALVAGE TRAFFIC SIGNAL EQUIPMENT	3
202.0100	EARTH EXCAVATION	3
202.0700	COMMON BORROW	3
203.0100	STRUCTURAL EXCAVATION EARTH	3
203.0650	CRUSHED STONE FILL UNDER STRUCTURES	3
203.0700	PERVIOUS FILL	4
204.0100	TRIMMING AND FINE GRADING	4
206.0312	COMPOST FILTER SOCK 12 INCH DIAMETER	5
209.0200	SACK INSERT CATCH BASIN INLET PROTECTION	5
211.9901	CONSTRUCTION ACCESS - PIER RECONSTRUCTION	6
212.2100	MAINTENANCE AND CLEANING OF EROSION AND POLLUTION CONTROLS	6
213.0100	PLACEMENT OF MILLINGS BENEATH GUARDRAIL	6
302.0100	GRAVEL BORROW SUBBASE COURSE	6
401.1000	CLASS 19.0 HMA	7
401.2100	MODIFIED CLASS 12.5 HMA	7
401.3000	** ITEM DELETED **	8
403.0300	ASPHALT EMULSION TACK COAT	8
	TEMPORARY PATCHING MATERIAL/TRENCHES	
701.9901	6-INCH PVC PRESSURE PIPE AND FITTINGS	9
701.9902	8-INCH PVC PIPE AND FITTINGS	9
701.9903	8-INCH STEEL GRAVITY SEWER AND 6-INCH STEEL FORCE MAIN ACROSS THE MOHEGAN BRIDGE NO. 673	9
701.9904	6-INCH FLEXIBLE COUPLING	9
701.9905	8-INCH FLEXIBLE COUPLING	9
701.9906	TEMPORARY SEWER BYPASS PUMPING AND PIPING SYSTEMS	10
702.0515	FRAME AND GRATE HIGH CAPACITY STANDARD 6.3.3	10
702.0533	** ITEM DELETED **	10
702.9901	SAND FILTER AND SEDIMENT FOREBAY NORTH	10
702.9902	SAND FILTER AND SEDIMENT FOREBAY SOUTH	11
702.9903	PRECAST 4'-0" ROUND SEWER MANHOLE (BURRILLVILLE)	11
702.9904	SEWER MANHOLE FRAME AND COVER (BURRILLVILLE)	11
702.9907	FORCE MAIN LEAKAGE TEST	11
702.9910	** ITEM DELETED **	11
702.9911	** ITEM DELETED **	12
707.1000	ADJUST SANITARY MANHOLE	12
707.1100	ADJUST CATCH BASINS	12
708.9040	CLEANING AND FLUSHING PIPE ALL SIZES	12
708.9041	CLEANING CATCH BASINS ALL TYPES AND SIZES	13
708.9042	CLEANING MANHOLES ALL TYPES AND SIZES	13
711.0110	3'' PAVED WATERWAY CLASS I-1 STANDARD 8.4.0	13
800.9901	MOHEGAN BRIDGE NO. 673	14
803.9901	REMOVE AND DISPOSE EXISTING MOHEGAN BRIDGE NO. 673	14
804.9901	PILOT BORING PROGRAM	14
817.2112	REPAIRS TO STRUCTURE CONCRETE MASONRY - PATCHING MORTAR	14
817.2142	REPAIRS TO STRUCTURE CONCRETE MASONRY - FORM AND CAST IN PLACE CONCRETE	14

Table of Contents - Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
R.I. Contract No. - 2020-CB-023
FAP Nos: BRO-0673(002)

ItemCode	Description	Page
824.9901	TEMPORARY JACKING AND SHORING OF PIER CAP	15
841.9901	DRILLED SHAFT - FURNISH AND INSTALL	15
841.9902	DRILLED SHAFT - OBSTRUCTION REMOVAL	15
901.0101	GUARDRAIL STEEL BEAM SINGLE FACE EARTH AND ASPHALT	15
901.0185	STEEL THRIE BEAM BRIDGE CONNECTION	15
901.9901	RADIUS GUARDRAIL STEEL BEAM SINGLE FACE EARTH AND ASPHALT	16
901.9903	GUARDRAIL END TREATMENT MASH COMPLIANT TL-2	16
903.0206	CHAIN LINK FENCE 6' STD 31.2.0	16
903.0410	TEMPORARY CHAIN LINK FENCE	16
906.0210	** ITEM DELETED **	16
906.0221	** ITEM DELETED **	17
906.0602	BITUMINOUS BERM STANDARD 7.5.1	17
907.0100	WATER FOR DUST CONTROL	17
914.5010	FLAGPERSONS	17
914.5020	FLAGPERSONS - OVERTIME	18
916.0600	SHOCK ABSORBING BARRIER MODULES	18
919.0101	TEST PITS	18
920.0040	DUMPED STONE RIPRAP R-3, R-4, R-5 STANDARD 8.3.0	18
920.0130	BEDDING FOR RIPRAP FS-1 STANDARD 8.3.0	18
920.0200	FILTER FABRIC FOR RIP-RAP	19
922.0100	TEMPORARY CONSTRUCTION SIGNS STANDARD 29.1.0 AND 27.1.1	19
923.0105	DRUM BARRICADE STANDARD 26.2.0	21
923.0120	PLASTIC PIPE BARRICADE STANDARD 26.3.0	22
923.0200	FLUORESCENT TRAFFIC CONES STANDARD 26.1.0	22
925.0112	PORTABLE CHANGEABLE MESSAGE SIGN	22
926.0140	REFLECTIVE DELINEATORS FOR TEMPORARY CONCRETE BARRIERS	22
926.0200	ANCHORED BARRIER FOR TEMPORARY TRAFFIC CONTROL	22
926.9901	TEMPORARY BARRIER (TL-3)	23
929.0110	FIELD OFFICE	23
931.0110	CLEANING AND SWEEPING PAVEMENT	23
932.0100	CUTTING AND MATCHING ASPHALT	23
	FULL-DEPTH SAWCUT OF BITUMINOUS PAVEMENT	
935.0400	REMOVING BITUMINOUS PAVEMENT BY MICRO MILLING	24
936.0100	MOBILIZATION AND DEMOBILIZATION	24
937.0200	MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION	24
943.0200	TRAINEE MAN-HOURS	24
L01.0104	PLANTABLE SOIL 4 INCHES DEEP	24
L02.0101	GENERAL HIGHWAY SEEDING (TYPE 1)	25
L08.0109	TREE TRIMMING	25
L09.9901	SELECTIVE CLEARING FOR CONSTRUCTION ACCESS AT BRIDGE NO. 673	25
T04.5001	6 AWG SINGLE CONDUCTOR CABLE 600V INSULATION	26
T04.5305	14 AWG 5 CONDUCTOR CABLE	26
T04.5309	14 AWG 9 CONDUCTOR CABLE	26
T04.9902	VIDEO DETECTION SYSTEM CABLE	26
T06.2020	2 IN. RIGID STEEL CONDUIT-OVERHEAD	27
T06.2030	3 IN. RIGID STEEL CONDUIT-OVERHEAD	27
T11.6006	SPAN AND MESSENGER WIRES 6/16	27
T11.9901	TRAFFIC SIGNAL STANDARD WOOD 40 FEET	27
T12.0004	ACTUATED CONTROLLER TS-2, TYPE 1 W/4 PHASE ASSEMBLY POLE MOUNTED INCLUDING CABINET STD. 19.1.1	27
T12.9150	METER SOCKET W/MANUAL BY-PASS	28
T12.9903	MAINTENANCE OF TEMPORARY SIGNAL SYSTEM	28
T13.9901	VIDEO DETECTION SYSTEM CAMERA	28

Table of Contents - Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
R.I. Contract No. - 2020-CB-023
FAP Nos: BRO-0673(002)

ItemCode	Description	Page
T13.9902	VIDEO DETECTION SYSTEM HARDWARE	28
T14.3413	1 WAY 3 SECTION SPAN MOUNTED SIGNAL HEAD 12 INCH	28
T14.3423	2 WAY 3 SECTION SPAN MOUNTED SIGNAL HEAD 12 INCH	29
T14.3613	1 WAY 3 SECTION BRACKET MOUNTED SIGNAL HEAD 12 INCH	29
T15.0100	DIRECTIONAL REGULATORY AND WARNING SIGNS	29
T15.1000	STREET SIGN ASSEMBLY STD. 24.6.1	30
T20.0706	6 INCH WHITE WATERBORNE PAINT PAVEMENT MARKINGS	31
T20.0712	12 INCH WHITE WATERBORNE PAINT PAVEMENT MARKINGS	31
T20.0904	4 INCH YELLOW WATERBORNE PAINT PAVEMENT MARKINGS	32
T20.2406	6 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS	32
T20.2412	12 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS	33
T20.2506	6 INCH WHITE INTERIM EPOXY RESIN PAVEMENT MARKINGS	33
T20.2512	12 INCH WHITE INTERIM EPOXY RESIN PAVEMENT MARKINGS	33
T20.2804	4 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS	34
T20.2904	4 INCH YELLOW INTERIM EPOXY RESIN PAVEMENT MARKINGS	34
T20.2906	6 INCH YELLOW INTERIM EPOXY RESIN PAVEMENT MARKINGS	34
T20.3401	FINAL EPOXY RESIN PAVEMENT MARKING SYMBOL - ARROW (STRAIGHT, LEFT, RIGHT OR COMBINED) STANDARD 20.1.0	35
T20.3501	INTERIM EPOXY RESIN PAVEMENT MARKING SYMBOL - ARROW (STRAIGHT, LEFT, RIGHT OR COMBINED) STANDARD 20.1.0	35
T20.4506	REMOVE PAVEMENT MARKING LINE - LESS THAN OR EQUAL TO 6 INCHES WIDE	35
T20.4508	REMOVE PAVEMENT MARKING LINE - GREATER THAN 6 INCHES WIDE	36
T20.4511	REMOVE PAVEMENT MARKING SYMBOL - ARROW (STRAIGHT, LEFT, RIGHT OR COMBINED)	36
201.0403	REMOVE AND DISPOSE SIDEWALKS	37
201.0421	REMOVE AND DISPOSE BITUMINOUS CURB	37
601.0200	CLASS XX PORTLAND CEMENT CONCRETE	37
702.0543	GRANITE APRON STONE 38'' STANDARD 7.3.8	37
905.0110	PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD 43.1.0	38
906.0110	GRANITE CURB, QUARRY SPLIT STRAIGHT, STANDARD 7.3.0	38
906.0111	GRANITE CURB, QUARRY SPLIT CIRCULAR, STANDARD 7.3.0	38
906.0118	6' GRANITE TRANSITION CURB, QUARRY SPLIT SPECIAL TRANSITION STANDARD 7.3.2	38
906.0120	GRANITE WHEELCHAIR RAMP CURB STANDARDS 7.3.3, 43.3.0 AND 43.3.1	39
906.0131	GRANITE RAMP STONE CIRCULAR STANDARD 7.3.9	39
906.0700	REMOVE, HANDLE, HAUL TRIM RESET CURB EDGING, STRAIGHT, CIRCULAR ALL TYPES	39

Table of Contents - Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
R.I. Contract No. - 2020-CB-023
FAP Nos: BRO-0673(002)

ItemCode	Description	Page
942.0200	DETECTABLE WARNING PANEL STANDARD 48.1.0	40
T11.0100	ANCHOR GUY ASSEMBLY CONSTRUCTED IN PLACE	40

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
001	201.0402	REMOVE AND DISPOSE CONCRETE CURB	LF			
		BRONCOS HIGHWAY				
		263+48 RT TO BRIDGE			0014	01
		263+85 LT TO BRIDGE			0014	01
		266+55 TO 266+77 LT			0014	01
		266+55 TO 266+87 RT			0014	01
		267+20 LT 45'			0014	01
Item 201.0402 Total:					**DELETED**	
002	201.0409	REMOVE AND DISPOSE FLEXIBLE PAVEMENT	SY			
		BRONCOS (BERMA) (BERMA)				
		268+01, 29' LT TO		31.56	0014	01
		271+00, (BERMA) (BERMA)				
		268+02, 36' RT TO		31.44	0014	01
		271+00, (BERMA) (BERMA)				
		BRONCOS HIGHWAY				
		265+60 TO 266+00, 42' RT		27.00	0014	01
		BRONCOS HIGHWAY (PAVE1)				
		263+40 TO 264+20 (PAVE1)		427.00	0014	01
		266+46 TO 267+00 (PAVE1)		273.00	0014	01
		MOHEGAN BRIDGE 673 (RHHRC)				
		STA 263+85 TO 264+10 LT AND RT (RHHRC)		5.56	0014	01
		STA 266+55 TO 266+75 LT (RHHRC)		2.22	0014	01
		STA 266+55 TO 266+90 RT (RHHRC)		3.89	0014	01
		STA 267+20, 45' LT (RHHRC)		0.56	0014	01
		QUANTITY				
		ROUNDING		0.77	0014	01
Item 201.0409 Total:				803.00		

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
003	201.0415	REMOVE AND DISPOSE GUARDRAIL AND POST ALL TYPES	LF			
		MOHEGAN BRIDGE NO. 673				
		STA 262+50, 30' LT - 264+20, 23 LT		170.00	0014	01
		STA 262+50, 30' RT - 264+20, 23 RT		170.00	0014	01
		STA 266 + 55' LT R 45'		132.00	0014	01
		STA 266 + 55' RT R 45'		117.00	0014	01
Item 201.0415 Total:				589.00		
S004	201.0419	REMOVE AND DISPOSE FENCE	LF			
		BRONCOS HIGHWAY				
		226+50 27'RT TO 227+00 30' RT		50.00	0014	01
		266+33 TO 267+55, 80' RT		120.00	0014	01
Item 201.0419 Total:				170.00		

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
005	201.0428	REMOVE AND DISPOSE FRAME AND GRATE	EACH			
		OR FRAME AND COVER				
		MOHEGAN BRIDGE NO. 673				
		STA 263+50 LT		1.00	0014	01
		STA 263+50 RT		1.00	0014	01
		STA 266+75 LT		1.00	0014	01
		STA 266+85 RT		1.00	0014	01
		STA 267+20 LT		1.00	0014	01
		STA 267+55 LT		1.00	0014	01
Item 201.0428 Total:				6.00		
S006	201.0610	REMOVE AND DISPOSE DIRECTIONAL,	EACH			
		WARNING, REGULATORY, SERVICE, AND				
		STREET SIGNS				
		MOHEGAN BRIDGE NO. 673				
		EB APPROACH WEIGHT LIMIT SIGN		1.00	0014	01
		STA 262+71, 27' RT		2.00	0014	01
		STA 264+07, 27' RT		1.00	0014	01
		STA 266+56, 26' LT		2.00	0014	01
		STA 266+87, 27' LT		1.00	0014	01
		STA 266+98, 37' LT		3.00	0014	01
		STA 267+12, 26' RT		2.00	0014	01
		STA 267+12, 30' RT		3.00	0014	01
		STA 267+20, 57' LT		3.00	0014	01
		STA 267+22, 56' LT		2.00	0014	01
		STA 267+53, 64' RT		2.00	0014	01
		STA 267+57, 72' LT		3.00	0014	01
		STA 267+97, 59' RT		3.00	0014	01
		STA 267+99, 59' RT		2.00	0014	01
		STA 268+10, 31' LT		3.00	0014	01
		STA 268+10, 34' LT		1.00	0014	01
		STA 268+10, 36' RT		1.00	0014	01
		STA 268+33, 29' LT		1.00	0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
R.I. Contract No. - 2020-CB-023
FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S006	201.0610	Cont.	STA 268+97, 29' LT	1.00	0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S006	201.0610	Cont.		2.00	0014	01
		STA 269+80, 29' RT				
		STA 270+76, 29' RT			0014	01
Item 201.0610 Total:				39.00		
S007	201.9905	REMOVE AND SALVAGE TRAFFIC SIGNAL EQUIPMENT	LS			
		TEMPORARY TRAFFIC SIGNAL SYSTEMS				
		3 LOCATIONS		1.00	0014	01
Item 201.9905 Total:				1.00		
008	202.0100	EARTH EXCAVATION	CY			
		BRONCOS HIGHWAY (PAVE1)				
		263+40 TO 264+20 (PAVE1)		142.33	0014	01
		266+46 TO 267+00 (PAVE1)		90.99	0014	01
		MOHEGAN BRIDGE 673 (CC-SW)				
		STA 267+50 TO 268+00 LT		16.67	0014	01
		(CC-SW)				
		STA 267+95 TO 268+00 RT		3.33	0014	01
		(CC-SW)				
		MOHEGAN BRIDGE 673 (RHHRC)				
		STA 263+85 TO 264+10 LT AND		1.85	0014	01
		RT (RHHRC)				
		STA 266+55 TO 266+75 LT		0.74	0014	01
		(RHHRC)				
		STA 266+55 TO 266+90 RT		1.30	0014	01
		(RHHRC)				
		STA 267+20, 45' LT (RHHRC)		0.19	0014	01
		QUANTITY				
		ROUNDING		0.60	0014	01
Item 202.0100 Total:				258.00		
009	202.0700	COMMON BORROW	CY			
		BRONCOS HIGHWAY				

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
009	202.0700	Cont.				
		CROSS SECTION STA 263+50		17.00	0014	01
		SEDIMENT FOREBAY AND SAND		5.00	0014	01
		FILTER SOUTH SIDE				
Item 202.0700 Total:				22.00		
010	203.0100	STRUCTURAL EXCAVATION EARTH	CY			
		MOHEGAN BRIDGE NO. 673				
		MOHEGAN BRIDGE NO. 673		10.00	0014	01
Item 203.0100 Total:				10.00		
011	203.0650	CRUSHED STONE FILL UNDER STRUCTURES	CY			
		MOHEGAN BRIDGE NO. 673				
		MOHEGAN BRIDGE NO. 673		10.00	0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
011	203.0650	Cont.		10.00		
Item 203.0650 Total:				10.00		
012	203.0700	PERVIOUS FILL	CY			
		MOHEGAN BRIDGE NO. 673				
		MOHEGAN BRIDGE NO. 673		60.00	0014	01
Item 203.0700 Total:				60.00		
013	204.0100	TRIMMING AND FINE GRADING	SY			
		BRONCOS HIGHWAY (BERMA)				
		268+01, 29' LT TO 271+00,		78.88	0014	01
		22' LT (BERMA)				
		268+02, 36' RT TO 271+00,		78.61	0014	01
		24' RT (BERMA)				
		BRONCOS HIGHWAY (PAVE1)				
		263+40 TO 264+20 (PAVE1)		427.00	0014	01
		266+46 TO 267+00 (PAVE1)		273.00	0014	01
		BRONCOS HIGHWAY (PSOIL)				
		262+12 LT TO BRIDGE (PSOIL)		383.00	0014	01
		262+30 RT TO BRIDGE (PSOIL)		296.00	0014	01
		BRIDGE NE TO DOUGLAS		284.00	0014	01
		TURNPIKE (PSOIL)				
		BRIDGE SE TO DOUGLAS		820.00	0014	01
		TURNPIKE (PSOIL)				
		DOUGLAS TURNPIKE TO 271+00		416.00	0014	01
		LT (PSOIL)				
		DOUGLAS TURNPIKE TO 271+00		651.00	0014	01
		RT (PSOIL)				
		MOHEGAN BRIDGE (8.3.0)				
		STA 265+60, 42' RT (8.3.0)		9.00	0014	01
		STA 269+05 LT (8.3.0)		10.00	0014	01
		STA 269+05 RT (8.3.0)		45.00	0014	01
		MOHEGAN BRIDGE (8.4.0)				
		STA 265+60 TO 266+00, 42' RT			0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
013	204.0100	Cont.	(8.4.0)			
		STA 269.05 RT (8.4.0)			0014	01
		STA 269+05 LT (8.4.0)			0014	01
		MOHEGAN BRIDGE 673 (CC-SW)				
		STA 267+50 TO 268+00 LT		50.00	0014	01
		(CC-SW)				
		STA 267+95 TO 268+00 RT		10.00	0014	01
		(CC-SW)				
		MOHEGAN BRIDGE 673 (RHHRC)				
		STA 263+85 TO 264+10 LT AND		5.56	0014	01
		RT (RHHRC)				
		STA 266+55 TO 266+75 LT		2.22	0014	01
		(RHHRC)				
		STA 266+55 TO 266+90 RT		3.89	0014	01
		(RHHRC)				
		STA 267+20, 45' LT (RHHRC)		0.56	0014	01
		QUANTITY				
		ROUNDING		0.28	0014	01
Item 204.0100 Total:				3,844.00		
014	206.0312	COMPOST FILTER SOCK 12 INCH	LF			
		DIAMETER				
		MOHEGAN BRIDGE NO. 673				
		REPLACEMENT		2,946.00	0014	01
		STA 262+12, 37' LT - 262+30,		564.00	0014	01
		31 RT				
		STA 265+49, 45' RT - 267+80,		360.00	0014	01
		218 RT				
		STA 265+60, 25' RT TO		680.00	0014	01
		267+80, 218' RT TO 267+50,				
		80' RT TO 266+23, 25' RT				
		STA 266+10, 28' LT - 267+14,		180.00	0014	01
		108 LT				

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
014	206.0312	Cont.				
		STA 266+30, 40' RT - 267+62,		300.00	0014	01
		78 Rt				
		STA 271+00 LT TO DOUGLAS		430.00	0014	01
		TURNPIKE				
		STA 271+00 RT TO DOUGLAS		432.00	0014	01
		TURNPIKE				
Item 206.0312 Total:				5,892.00		
015	209.0200	SACK INSERT CATCH BASIN INLET	EACH			
		PROTECTION				
		MOHEGAN BRIDGE NO. 673				
		REPLACEMENT		6.00	0014	01
		STA 263+50 LT		1.00	0014	01
		STA 263+50 RT		1.00	0014	01
		STA 266+75 LT		1.00	0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
015	209.0200	Cont.				
		STA 266+85 RT		1.00	0014	01
		STA 267+20 LT		1.00	0014	01
		STA 267+57 LT		1.00	0014	01
Item 209.0200 Total:				12.00		
016	211.9901	CONSTRUCTION ACCESS - PIER	LS			
		RECONSTRUCTION				
		MOHEGAN BRIDGE NO. 673				
		MOHEGAN BRIDGE NO. 673		1.00	0014	01
Item 211.9901 Total:				1.00		
017	212.2100	MAINTENANCE AND CLEANING OF	LS			
		EROSION AND POLLUTION CONTROLS				
		MOHEGAN BRIDGE NO. 673				
		PER SPECIFICATIONS		1.00	0014	01
Item 212.2100 Total:				1.00		
018	213.0100	PLACEMENT OF MILLINGS BENEATH	LF			
		GUARDRAIL				
		MOHEGAN BRIDGE NO. 673				
		STA 262+50, 24' RT - 264+20,		170.00	0014	01
		24 RT				
		STA 262+50, 30' LT - 264+20,		170.00	0014	01
		23 LT				
		STA 266+55, 24' LT - 267+16,		140.00	0014	01
		108 LT				
		STA 266+55, 24' RT - 267+55,		130.00	0014	01
		83' RT				
Item 213.0100 Total:				610.00		
019	302.0100	GRAVEL BORROW SUBBASE COURSE	CY			
		BRONCOS HIGHWAY (BERMA)				
		268+01, 29' LT TO 271+00,		26.29	0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
019	302.0100	Cont.				
		22' LT (BERMA)				
		268+02, 36' RT TO 271+00,		26.20	0014	01
		24' RT (BERMA)				
		BRONCOS HIGHWAY (PAVE1)				
		263+40 TO 264+20 (PAVE1)		142.33	0014	01
		266+46 TO 267+00 (PAVE1)		90.99	0014	01
		MOHEGAN BRIDGE (8.4.0)				
		STA 265+60 TO 266+00, 42' RT			0014	01
		(8.4.0)				
		STA 269.05 RT (8.4.0)			0014	01
		STA 269+05 LT (8.4.0)			0014	01
		MOHEGAN BRIDGE 673 (CC-SW)				
		STA 267+50 TO 268+00 LT		11.11	0014	01
		(CC-SW)				
		STA 267+95 TO 268+00 RT		2.22	0014	01
		(CC-SW)				
		MOHEGAN BRIDGE 673 (RHHRC)				
		STA 263+85 TO 264+10 LT AND		1.85	0014	01
		RT (RHHRC)				
		STA 266+55 TO 266+75 LT		0.74	0014	01
		(RHHRC)				
		STA 266+55 TO 266+90 RT		1.30	0014	01
		(RHHRC)				
		STA 267+20, 45' LT (RHHRC)		0.19	0014	01
		QUANTITY				
		ROUNDING		0.78	0014	01
Item 302.0100 Total:				304.00		
020	401.1000	CLASS 19.0 HMA	TON			
		BRONCOS HIGHWAY (BERMA)				
		268+01, 29' LT TO 271+00,		26.30	0014	01
		22' LT (BERMA)				
		268+02, 36' RT TO 271+00,		26.21	0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
020	401.1000	Cont.				
		24' RT (BERMA)				
		BRONCOS HIGHWAY (PAVE1)				
		263+40 TO 264+20 (PAVE1)		208.58	0014	01
		266+46 TO 267+00 (PAVE1)		133.36	0014	01
		QUANTITY				
		ROUNDING		0.55	0014	01
Item 401.1000 Total:				395.00		
021	401.2100	MODIFIED CLASS 12.5 HMA	TON			
		BRONCOS HIGHWAY (BERMA)				
		262+50 TO 263+40 LT (BERMA)		19.40	0014	01
		262+50 TO 263+40 RT (BERMA)		19.40	0014	01
		BRONCOS HIGHWAY (BERMA)				
		268+01, 29' LT TO 271+00, 22' LT (BERMA)		13.60	0014	01
		268+02, 36' RT TO 271+00, 24' RT (BERMA)		13.56	0014	01
		BRONCOS HIGHWAY (MICRO)				

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
021	401.2100	Cont.				
		262+50 TO 263+40 (MICRO)		62.84	0014	01
		267+00 TO 268+25 (MICRO)		181.68	0014	01
		BRONCOS HIGHWAY (PAVE1)				
		263+40 TO 264+20 (PAVE1)		55.21	0014	01
		266+46 TO 267+00 (PAVE1)		35.30	0014	01
		QUANTITY				
		ROUNDING		0.81	0014	01
Item 401.2100 Total:				363.00		
022	401.3000	CLASS 9.5 HMA	TON			
		MOHEGAN BRIDGE (8.4.0)				
		STA 265+60 TO 266+00, 42' RT			0014	01
		(8.4.0)				
		STA 269.05 RT (8.4.0)			0014	01
		STA 269+05 LT (8.4.0)			0014	01
		QUANTITY				
		ROUNDING			0014	01
Item 401.3000 Total:					**DELETED**	
023	403.0300	ASPHALT EMULSION TACK COAT	SY			
		BRONCOS (BERMA) (BERMA)				
		268+01, 29' LT TO		189.33	0014	01
		271+00, (BERMA) (BERMA)				
		268+02, 36' RT TO		188.67	0014	01
		271+00, (BERMA) (BERMA)				
		BRONCOS HIGHWAY (MICRO)				
		262+50 TO 263+40 (MICRO)		486.00	0014	01
		267+00 TO 268+25 (MICRO)		1,405.00	0014	01
		BRONCOS HIGHWAY (PAVE1)				
		263+40 TO 264+20 (PAVE1)		854.00	0014	01
		266+46 TO 267+00 (PAVE1)		546.00	0014	01
		MOHEGAN BRIDGE 673 (RHHRC)				
		STA 263+85 TO 264+10 LT AND		5.56	0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
023	403.0300	Cont.				
		RT (RHHRC)				
		STA 266+55 TO 266+75 LT		2.22	0014	01
		(RHHRC)				
		STA 266+55 TO 266+90 RT		3.89	0014	01
		(RHHRC)				
		STA 267+20, 45' LT (RHHRC)		0.56	0014	01
		QUANTITY				
		ROUNDING		0.77	0014	01
Item 403.0300 Total:				3,682.00		
MATERIAL/TRENCHES						
024	410.1000	TEMPORARY PATCHING	TON			
		MOHEGAN BRIDGE				
		CONSTRUCTION		15.00	0014	01
Item 410.1000 Total:				15.00		

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
025	701.9901	6-INCH PVC PRESSURE PIPE AND FITTINGS BRONCOS HIGHWAY	LF			
		263+70 LT TO 264+15 RT		70.00	0014	01
		266+50 RT TO 266+95 LT		75.00	0014	01
Item 701.9901 Total:				145.00		
026	701.9902	8-INCH PVC PIPE AND FITTINGS BRONCOS HIGHWAY	LF			
		263+94 LT & RT		34.00	0014	01
		263+94 TO 264+15 RT		20.00	0014	01
		266+50 TO 266+64 RT		15.00	0014	01
		266+64 LT & RT		32.00	0014	01
Item 701.9902 Total:				101.00		
027	701.9903	8-INCH STEEL GRAVITY SEWER AND 6-INCH STEEL FORCE MAIN ACROSS THE MOHEGAN BRIDGE NO. 673 MOHEGAN BRIDGE NO 673	LS			
		MOHEGAN BRIDGE NO 673		1.00	0014	01
Item 701.9903 Total:				1.00		
028	701.9904	6-INCH FLEXIBLE COUPLING BRONCOS HIGHWAY	EACH			
		264+15 RT		1.00	0014	01
		266+50 RT		1.00	0014	01
		267+02 LT		1.00	0014	01
Item 701.9904 Total:				3.00		
029	701.9905	8-INCH FLEXIBLE COUPLING BRONCOS HIGHWAY	EACH			
		264+15 RT		1.00	0014	01
		266+50 RT		1.00	0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
029	701.9905	Cont.				
				Item 701.9905 Total:	2.00	
030	701.9906	TEMPORARY SEWER BYPASS PUMPING AND PIPING SYSTEMS	LS			
		BRIDGE NO. 673				
		BRIDGE NO. 673		1.00	0014	01
				Item 701.9906 Total:	1.00	
031	702.0515	FRAME AND GRATE HIGH CAPACITY STANDARD 6.3.3	EACH			
		MOHEGAN BRIDGE NO. 673				
		STA 263+50 LT		1.00	0014	01
		STA 263+50 RT		1.00	0014	01
		STA 266+75 LT		1.00	0014	01
		STA 266+85 RT		1.00	0014	01
		STA 267+20 LT		1.00	0014	01
		STA 267+55 LT		1.00	0014	01
				Item 702.0515 Total:	6.00	
032	702.0533	PRECAST CONCRETE APRON STONE 38'' STANDARD 7.1.8	EACH			
		MOHEGAN BRIDGE NO. 673				
		263+50 LT			0014	01
		263+50 RT			0014	01
		266+75 LT			0014	01
		266+85 RT			0014	01
		267+20 LT 45'			0014	01
				Item 702.0533 Total:	**DELETED**	
033	702.9901	SAND FILTER AND SEDIMENT FOREBAY NORTH	LS			
		MOHEGAN BRIDGE NO. 673				
		NORTHEAST OF BRONCOS HIGHWAY		1.00	0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
R.I. Contract No. - 2020-CB-023
FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
033	702.9901	Cont. AND DOUGLAS TURNPIKE				

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
033	702.9901	Cont.				
		Item 702.9901 Total:		1.00		
034	702.9902	SAND FILTER AND SEDIMENT FOREBAY SOUTH MOHEGAN BRIDGE NO. 673 SOUTHEAST OF BRONCOS HIGHWAY AND DOUGLAS TURNPIKE	LS			
		Item 702.9902 Total:		1.00	0014	01
035	702.9903	PRECAST 4'-0" ROUND SEWER MANHOLE (BURRILLVILLE) BRONCOS HIGHWAY 263+94 RT 266+64 RT	EACH			
		Item 702.9903 Total:		2.00	0014	01
036	702.9904	SEWER MANHOLE FRAME AND COVER (BURRILLVILLE) BRONCOS HIGHWAY 263+94 RT 266+64 RT	EACH			
		Item 702.9904 Total:		2.00	0014	01
037	702.9907	FORCE MAIN LEAKAGE TEST BRONCOS HIGHWAY FORCE MAIN SYSTEM	EACH			
		Item 702.9907 Total:		1.00	0014	01
038	702.9910	SEWER MANHOLE FRAME AND COVER BURRILLVILLE STANDARD MOHEGAN BRIDGE 263+93 RT 266+66 RT	EACH			
					0014	01
					0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
038	702.9910	Cont.				
				Item 702.9910 Total:	**DELETED**	
039	702.9911	PRECAST SEWER MANHOLE 4' DIAMETER BURRILLVILLE STANDARD BRONCOS HIGHWAY	EACH			
		263+93 RT			0014	01
		266+66 RT			0014	01
				Item 702.9911 Total:	**DELETED**	
040	707.1000	ADJUST SANITARY MANHOLE MOHEGAN BRIDGE NO. 673	EACH			
		STA 263+34 LT		1.00	0014	01
		STA 263+94 LT		2.00	0014	01
		STA 263+98 RT		1.00	0014	01
		STA 266+66 LT		2.00	0014	01
		STA 266+66 RT		1.00	0014	01
		STA 267+08 LT		1.00	0014	01
		STA 267+62 LT		1.00	0014	01
		STA 267+73 RT		1.00	0014	01
		STA 268+17 RT		1.00	0014	01
				Item 707.1000 Total:	11.00	
041	707.1100	ADJUST CATCH BASINS MOHEGAN BRIDGE NO. 673	EACH			
		STA 263+50 LT		1.00	0014	01
		STA 263+50 RT		1.00	0014	01
		STA 266+75 LT		1.00	0014	01
		STA 266+85 RT		1.00	0014	01
		STA 267+20 LT		1.00	0014	01
		STA 267+55 LT		1.00	0014	01
				Item 707.1100 Total:	6.00	
042	708.9040	CLEANING AND FLUSHING PIPE ALL	LF			

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
042	708.9040	Cont. SIZES				
		MOHEGAN BRIDGE NO. 673				
		STA 263+50 LT-RT		116.00	0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
042	708.9040	Cont.				
		STA 266+02, 43' RT to		85.00	0014	01
		266+88, 43' RT				
		STA 266+75, 21' LT - 267+20,		53.00	0014	01
		47' LT				
		STA 266+88 RT - 266+75 LT		64.00	0014	01
		STA 266+88, 43' RT - 269+50,		262.00	0014	01
		40' RT				
		STA 267+20, 47' LT - 267+56,		39.00	0014	01
		65' LT				
		STA 269+50 LT-RT		78.00	0014	01
Item 708.9040 Total:				697.00		
043	708.9041	CLEANING CATCH BASINS ALL TYPES	EACH			
		AND SIZES				
		MOHEGAN BRIDGE NO. 673				
		STA 263+50 LT		1.00	0014	01
		STA 263+50 RT		1.00	0014	01
		STA 266+75 LT		1.00	0014	01
		STA 266+85 RT		1.00	0014	01
		STA 267+20 LT		1.00	0014	01
		STA 267+57 LT		1.00	0014	01
Item 708.9041 Total:				6.00		
044	708.9042	CLEANING MANHOLES ALL TYPES AND	EACH			
		SIZES				
		MOHEGAN BRIDGE NO. 673				
		STA 266+38, 43' RT		1.00	0014	01
		STA 266+88, 42' RT		1.00	0014	01
Item 708.9042 Total:				2.00		
045	711.0110	3'' PAVED WATERWAY CLASS I-1	SY			
		STANDARD 8.4.0				
		MOHEGAN BRIDGE (8.4.0)				

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
045	711.0110	Cont.				
		STA 265+60 TO 266+00, 42' RT		27.00	0014	01
		(8.4.0)				
		STA 269.05 RT (8.4.0)		6.50	0014	01
		STA 269+05 LT (8.4.0)		6.50	0014	01
Item 711.0110 Total:				40.00		
046	800.9901	MOHEGAN BRIDGE NO. 673	LS			
		MOHEGAN BRIDGE NO. 673				
		MOHEGAN BRIDGE NO. 673		1.00	0014	01
Item 800.9901 Total:				1.00		
047	803.9901	REMOVE AND DISPOSE EXISTING	LS			
		MOHEGAN BRIDGE NO. 673				
		MOHEGAN BRIDGE NO. 673				
		MOHEGAN BRIDGE NO. 673		1.00	0014	01
Item 803.9901 Total:				1.00		
048	804.9901	PILOT BORING PROGRAM	LS			
		MOHEGAN BRIDGE NO. 673				
		MOHEGAN BRIDGE NO. 673		1.00	0014	01
Item 804.9901 Total:				1.00		
049	817.2112	REPAIRS TO STRUCTURE CONCRETE	CF			
		MASONRY - PATCHING MORTAR				
		MOHEGAN BRIDGE NO. 673				
		AS DIRECTED BY THE ENGINEER		20.00	0014	01
Item 817.2112 Total:				20.00		
050	817.2142	REPAIRS TO STRUCTURE CONCRETE	CF			
		MASONRY - FORM AND CAST IN PLACE				
		CONCRETE				
		MOHEGAN BRIDGE NO. 673				
		EAST ABUTMENT		20.00	0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
050	817.2142	Cont. WEST ABUTMENT		200.00	0014	01
Item 817.2142 Total:				220.00		
051	824.9901	TEMPORARY JACKING AND SHORING OF PIER CAP MOHEGAN BRIDGE NO. 673 MOHEGAN BRIDGE NO. 673	LS	1.00	0014	01
Item 824.9901 Total:				1.00		
052	841.9901	DRILLED SHAFT - FURNISH AND INSTALL LF BR. NO. 673 BR. NO. 673		92.00	0014	01
Item 841.9901 Total:				92.00		
053	841.9902	DRILLED SHAFT - OBSTRUCTION REMOVAL HRS BR. NO. 673 BR. NO. 673		16.00	0014	01
Item 841.9902 Total:				16.00		
S054	901.0101	GUARDRAIL STEEL BEAM SINGLE FACE EARTH AND ASPHALT BRONCOS HIGHWAY 262+50 TO 263+65 LT 262+50 TO 263+65 RT 266+65 TO 267+15 RT	LF	160.00 160.00 50.00	0014 0014 0014	01 01 01
Item 901.0101 Total:				370.00		
S055	901.0185	STEEL THRIE BEAM BRIDGE CONNECTION MOHEGAN BRIDGE NO. 673 STA 264+16, 23' LT STA 264+16, 23' RT STA 266+52, 23' RT STA 266+52, 24' LT	EACH	1.00 1.00 1.00 1.00	0014 0014 0014 0014	01 01 01 01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S055	901.0185	Cont.				
				Item 901.0185 Total:		
				4.00		
S056	901.9901	RADIUS GUARDRAIL STEEL BEAM SINGLE	LF			
		FACE EARTH AND ASPHALT				
		DOUGLAS TURNPIKE				
		NORTHWEST CORNER		85.00	0014	01
		SOUTHWEST CORNER		60.00	0014	01
				Item 901.9901 Total:		
				145.00		
S057	901.9903	GUARDRAIL END TREATMENT MASH	EACH			
		COMPLIANT TL-2				
		DOUGLAS TURNPIKE				
		NORTH OF BRONCOS HIGHWAY		1.00	0014	01
		SOUTH OF BRONCOS HIGHWAY		1.00	0014	01
				Item 901.9903 Total:		
				2.00		
S058	903.0206	CHAIN LINK FENCE 6' STD 31.2.0	LF			
		BRONCOS HIGHWAY				
		226+50 27' RT TO 227+00 30'		50.00	0014	01
		RT				
		266+33 TO 267+55, 80' RT		120.00	0014	01
				Item 903.0206 Total:		
				170.00		
S059	903.0410	TEMPORARY CHAIN LINK FENCE	LF			
		MOHEGAN BRIDGE				
		CONSTRUCTION STAGE 1		600.00	0014	01
		CONSTRUCTION STAGE 2		600.00	0014	01
				Item 903.0410 Total:		
				1,200.00		
060	906.0210	CEMENT CONCRETE CURB PRECAST	LF			
		STRAIGHT STANDARD 7.1.0				
		MOHEGAN BRIDGE NO. 673				
		STA 263+52 LT - 264+10 LT			0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
060	906.0210	Cont.				
		STA 263+52 RT - 264+10 RT			0014	01
		STA 266+55, 22' LT - 266+74,			0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
060	906.0210	Cont. 22' LT STA 266+55, 23' RT - 266+82, 23' RT			0014	01
Item 906.0210 Total:				**DELETED**		
061	906.0221	6' PRECAST CONCRETE TRANSITION CURB STANDARD 7.1.2 BRONCOS HIGHWAY	EACH			
		263+40 TO 263+46 LT			0014	01
		263+40 TO 263+46 RT			0014	01
		266+75 TO 266+81 LT			0014	01
		266+86 TO 266+92 RT			0014	01
		267+20, 45' LT			0014	01
Item 906.0221 Total:				**DELETED**		
062	906.0602	BITUMINOUS BERM STANDARD 7.5.1 BRONCOS HIGHWAY (BERMA)	LF			
		262+50 TO 263+40 LT (BERMA)		90.00	0014	01
		262+50 TO 263+40 RT (BERMA)		90.00	0014	01
		BRONCOS HIGHWAY (BERMA)				
		268+01, 29' LT TO 271+00, 22' LT (BERMA)		284.00	0014	01
		268+02, 36' RT TO 271+00, 24' RT (BERMA)		283.00	0014	01
Item 906.0602 Total:				567.00		
063	907.0100	WATER FOR DUST CONTROL MOHEGAN BRIDGE NO. 673 PER SPECIFICATIONS	MGAL			
				14.00	0014	01
Item 907.0100 Total:				14.00		
064	914.5010	FLAGPERSONS MOHEGAN BRIDGE NO. 673	MHRS			

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
064	914.5010	Cont.	MPT	9,600.00	0014	01
Item 914.5010 Total:				9,600.00		
065	914.5020	FLAGPERSONS - OVERTIME	MHRS			
		MOHEGAN BRIDGE NO. 673				
		MPT		2,400.00	0014	01
Item 914.5020 Total:				2,400.00		
066	916.0600	SHOCK ABSORBING BARRIER MODULES	GRP			
		MOHEGAN BRIDGE NO. 673				
		STAGE 1		1.00	0014	01
		STAGE 2		1.00	0014	01
Item 916.0600 Total:				2.00		
067	919.0101	TEST PITS	EACH			
		MOHEGAN BRIDGE NO. 673				
		6" FORCE WATER MAIN TIE-IN		2.00	0014	01
		SEWER MH		2.00	0014	01
		TEMP. POLES FROM TEMP.		7.00	0014	01
		SIGNALS				
		UTILITY POLES ON ROUTE 102		6.00	0014	01
		PROJECTWIDE				
		ASDIRECTED BY ENGINEER		1.00	0014	01
Item 919.0101 Total:				18.00		
068	920.0040	DUMPED STONE RIPRAP R-3, R-4, R-5	SY			
		STANDARD 8.3.0				
		MOHEGAN BRIDGE (8.3.0)				
		STA 265+60, 42' RT (8.3.0)		9.00	0014	01
		STA 269+05 LT (8.3.0)		10.00	0014	01
		STA 269+05 RT (8.3.0)		45.00	0014	01
Item 920.0040 Total:				64.00		

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
069	920.0130	BEDDING FOR RIPRAP FS-1 STANDARD	SY			
		8.3.0				
		MOHEGAN BRIDGE (8.3.0)				
		STA 265+60, 42' RT (8.3.0)		9.00	0014	01
		STA 269+05 LT (8.3.0)		10.00	0014	01
		STA 269+05 RT (8.3.0)		45.00	0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
069	920.0130	Cont.		64.00		
Item 920.0130 Total:				64.00		
070	920.0200	FILTER FABRIC FOR RIP-RAP	SY			
		MOHEGAN BRIDGE (8.3.0)				
		STA 265+60, 42' RT (8.3.0)		9.00	0014	01
		STA 269+05 LT (8.3.0)		10.00	0014	01
		STA 269+05 RT (8.3.0)		45.00	0014	01
Item 920.0200 Total:				64.00		
071	922.0100	TEMPORARY CONSTRUCTION SIGNS	SF			
		STANDARD 29.1.0 AND 27.1.1				
		BRONCOS HIGHWAY SOUTHBOUND				
		DETOUR				
		M1-5 RI 102 30X24 (4)		20.00	0014	01
		M3-3 SOUTH 24X12 (4)		8.00	0014	01
		M4-8 DETOUR 24X12 (4)		8.00	0014	01
		M4-8A END DETOUR 24X18 (1)		3.00	0014	01
		M6-1 ARROW 21X15 (3)		7.00	0014	01
		M6-3 ARROW 21X15 (1)		3.00	0014	01
		W20-2 DETOUR 1000 FT 48X48		32.00	0014	01
		(2)				
		W20-3 ROAD CLOSED AHEAD		32.00	0014	01
		48X48 (2)				
		MOHEGAN BRIDGE NO. 673				
		G20-2 END ROAD WORK 48X24 (2)		16.00	0014	01
		M1-5 RI 102 30X24 (16)		80.00	0014	01
		M3-1 NORTH 24X12 (16)		32.00	0014	01
		M4-8 DETOUR 24X12 (16)		32.00	0014	01
		M4-8A END DETOUR 24X18 (1)		3.00	0014	01
		M5-1 ADVANCE LEFT ARROW		5.00	0014	01
		21X15 (2)				
		M6-1L LEFT ARROW 21X15 (6)		14.00	0014	01
		M6-1R RIGHT ARROW 21X15 (3)		7.00	0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
071	922.0100	Cont.				
		M6-2 ARROW 21X15 (1)		3.00	0014	01
		M6-3 STRAIGHT ARROW 21X15 (1)		9.00	0014	01
		R10-6 STOP HERE ON RED 24X36 (9)		54.00	0014	01
		R11-2 ROAD CLOSED 48X30 (2)		20.00	0014	01
		R11-3a ROAD CLOSED/.8 MILES AHEAD LOCAL TRAFFIC ONLY 60X30 (1)		13.00	0014	01
		R11-3a ROAD CLOSED/1.8 MILES AHEAD LOCAL TRAFFIC ONLY 60X30 (1)		13.00	0014	01
		R11-4 ROAD CLOSED TO THRU TRAFFIC 60X30 (1)		13.00	0014	01
		R3-1 NO RIGHT TURN 24X24 (2)		8.00	0014	01
		R3-2 NO LEFT TURN 24X24 (1)		4.00	0014	01
		R5-1 DO NOT ENTER 36X36 (3)		27.00	0014	01
		R6-1L ONE WAY 36X12 (1)		3.00	0014	01
		RI STD. 27.1.1 WORK ZONE/ TRAFFIC FINES DOUBLED 36X54 (8)		108.00	0014	01
		SPECIAL ACCESS FOR RESIDENTS ONLY 48X48 (1)		16.00	0014	01
		SPECIAL RTE 102 NB CLOSED AHEAD 36X36 (3)		27.00	0014	01
		SPECIAL SIGNAL AHEAD 36X38 (9)		81.00	0014	01
		SPECIAL TRUCK 24X12 (5)		10.00	0014	01
		SPECIAL TRUCKS USE RTE 102 NB USE RTE 44 EB TO I-295 TO RTE 146 72X36 (1)		18.00	0014	01
		W1-4L REVERSE CURVE LEFT 48X48 (1)		16.00	0014	01
		W1-4L REVERSE CURVE RIGHT		16.00	0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
071	922.0100	Cont.				
		48X48 (1)				
		W1-6L LEFT ARROW 48X24 (2)		16.00	0014	01
		W1-6R RIGHT ARROW 48X24 (2)		16.00	0014	01
		W20-1 ROAD WORK AHEAD 36X36 (2)		18.00	0014	01
		W20-1 ROAD WORK AHEAD 48X48 (9)		81.00	0014	01
		W20-2 DETOUR 1000 FT 48X48 (2)		32.00	0014	01
		W20-2 DETOUR AHEAD 36X36 (3)		27.00	0014	01
		W20-3 ROAD CLOSED 1000 FT 48X48 (1)		16.00	0014	01
		W20-3 ROAD CLOSED 500 FT 48X48 (1)		16.00	0014	01
		W20-3 ROAD CLOSED AHEAD 48X48 (4)		64.00	0014	01
		W20-4 ONE LANE ROAD AHEAD 36X36 (5)		45.00	0014	01
		W20-7A FLAGPERSON 36X36 (2)		81.00	0014	01
		W21-5 SHOULDER WORK 36X36 (2)		45.00	0014	01
		W24-1L LANE SHIFT 48X48 (2)		32.00	0014	01
		W24-1R LANE SHIFT 48X48 (2)		32.00	0014	01
		W3-3 SIGNAL AHEAD 36X36 (9)		81.00	0014	01
		W8-1 BUMP 48X48 (4)		64.00	0014	01
		W8-15 GROOVED PAVEMENT 48X48 (4)		64.00	0014	01
		W8-15P MOTORCYCLE 30X24 (4)		20.00	0014	01
		QUANTITY INCREASE		140.00	0014	01
Item 922.0100 Total:				1,651.00		

072 923.0105 **DRUM BARRICADE STANDARD 26.2.0** **BDAY**
 MOHEGAN BRIDGE NO. 673

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
072	923.0105	Cont. MPT PLAN		30,600.00	0014	01
Item 923.0105 Total:				30,600.00		
073	923.0120	PLASTIC PIPE BARRICADE STANDARD	EACH			
		26.3.0				
		MOHEGAN BRIDGE NO. 673				
		MPT		5.00	0014	01
Item 923.0120 Total:				5.00		
074	923.0200	FLUORESCENT TRAFFIC CONES STANDARD	EACH			
		26.1.0				
		MOHEGAN BRIDGE				
		CONSTRUCTION		50.00	0014	01
Item 923.0200 Total:				50.00		
075	925.0112	PORTABLE CHANGEABLE MESSAGE SIGN	PDAY			
		MOHEGAN BRIDGE NO. 673				
		MPT PLAN		8,640.00	0014	01
Item 925.0112 Total:				8,640.00		
076	926.0140	REFLECTIVE DELINEATORS FOR	EACH			
		TEMPORARY CONCRETE BARRIERS				
		MOHEGAN BRIDGE NO. 673				
		MPT STAGE 1		22.00	0014	01
		MPT STAGE 2		20.00	0014	01
Item 926.0140 Total:				42.00		
077	926.0200	ANCHORED BARRIER FOR TEMPORARY	LF			
		TRAFFIC CONTROL				
		MOHEGAN BRIDGE NO. 673				
		STAGE 1		250.00	0014	01
		STAGE 2		250.00	0014	01
Item 926.0200 Total:				500.00		

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
078	926.9901	TEMPORARY BARRIER (TL-3)	LF			
		MOHEGAN BRIDGE				
		MPT STAGE 1		180.00	0014	01
		MPT STAGE 2		130.00	0014	01
Item 926.9901 Total:				310.00		
079	929.0110	FIELD OFFICE	PMO			
		MOHEGAN BRIDGE NO. 673				
		PER SPECIFICATIONS		40.00	0014	01
Item 929.0110 Total:				40.00		
080	931.0110	CLEANING AND SWEEPING PAVEMENT	HSY			
		MOHEGAN BRIDGE				
		CONSTRUCTION		300.00	0014	01
Item 931.0110 Total:				300.00		
081	932.0100	CUTTING AND MATCHING ASPHALT	LF			
		MOHEGAN BRIDGE NO. 673				
		STA 262+50, 30' LT - 24 RT		54.00	0014	01
		STA 267+25, 80' LT - 267+53, 83' LT		28.00	0014	01
		STA 267+61, 77' RT - 267+89, 71' RT		28.00	0014	01
		STA 268+25 - 271+00 LT			0014	01
		STA 268+25 - 271+00 RT			0014	01
		STA 268+25 LT-RT		50.00	0014	01
Item 932.0100 Total:				160.00		
		PAVEMENT				
082	932.0200	FULL-DEPTH SAWCUT OF BITUMINOUS	LF			
		BRONCOS HIGHWAY (BERMA)				
		22' LT (BERMA)				
		268+01, 29' LT TO 271+00,		284.00	0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
082	932.0200	Cont.		283.00	0014	01
		268+02, 36' RT TO 271+00, 24' RT (BERMA) MOHEGAN BRIDGE NO. 673				
		STA 263+41, 25' LT - 23' RT		48.00	0014	01
		STA 267+00, 28' LT - 23' RT		51.00	0014	01
Item 932.0200 Total:				666.00		
083	935.0400	REMOVING BITUMINOUS PAVEMENT BY MICRO MILLING	SY			
		BRONCOS HIGHWAY (MICRO)				
		262+50 TO 263+40 (MICRO)		486.00	0014	01
		267+00 TO 268+25 (MICRO)		1,405.00	0014	01
Item 935.0400 Total:				1,891.00		
084	936.0100	MOBILIZATION AND DEMOBILIZATION	LS			
		MOHEGAN BRIDGE NO. 673				
		PER SPECIFICATIONS		1.00	0014	01
Item 936.0100 Total:				1.00		
085	937.0200	MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION	LS			
		MOHEGAN BRIDGE NO. 673				
		MPT		1.00	0014	01
Item 937.0200 Total:				1.00		
086	943.0200	TRAINEE MAN-HOURS	MHRS			
		MOHEGAN BRIDGE NO. 673				
		PER SPECIFICATIONS		1,300.00	0014	01
Item 943.0200 Total:				1,300.00		
087	L01.0104	PLANTABLE SOIL 4 INCHES DEEP	SY			
		BRONCOS HIGHWAY (PSOIL)				
		262+12 LT TO BRIDGE (PSOIL)		383.00	0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
087	L01.0104	Cont.				
		262+30 RT TO BRIDGE (PSOIL)		296.00	0014	01
		BRIDGE NE TO DOUGLAS		284.00	0014	01
		TURNPIKE (PSOIL)				
		BRIDGE SE TO DOUGLAS		820.00	0014	01
		TURNPIKE (PSOIL)				
		DOUGLAS TURNPIKE TO 271+00		416.00	0014	01
		LT (PSOIL)				
		DOUGLAS TURNPIKE TO 271+00		651.00	0014	01
		RT (PSOIL)				
Item L01.0104 Total:				2,850.00		
S088	L02.0101	GENERAL HIGHWAY SEEDING (TYPE 1)	SY			
		BRONCOS HIGHWAY (PSOIL)				
		262+12 LT TO BRIDGE (PSOIL)		383.00	0014	01
		262+30 RT TO BRIDGE (PSOIL)		296.00	0014	01
		BRIDGE NE TO DOUGLAS		284.00	0014	01
		TURNPIKE (PSOIL)				
		BRIDGE SE TO DOUGLAS		820.00	0014	01
		TURNPIKE (PSOIL)				
		DOUGLAS TURNPIKE TO 271+00		416.00	0014	01
		LT (PSOIL)				
		DOUGLAS TURNPIKE TO 271+00		651.00	0014	01
		RT (PSOIL)				
Item L02.0101 Total:				2,850.00		
089	L08.0109	TREE TRIMMING	MHRS			
		MOHEGAN BRIDGE NO. 673				
		PER SPECIFICATIONS		16.00	0014	01
Item L08.0109 Total:				16.00		
090	L09.9901	SELECTIVE CLEARING FOR	SY			
		CONSTRUCTION ACCESS AT BRIDGE NO.				
		673				

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
090	L09.9901 Cont.	BRONCOS HIGHWAY				
		262+15 TO 264+40 LT		383.00	0014	01
		265+60 TO 267+50 RT		1,125.00	0014	01
		266+15 TO 266+70 LT		53.00	0014	01
Item L09.9901 Total:				1,561.00		
S091	T04.5001	6 AWG SINGLE CONDUCTOR CABLE 600V	LF			
		INSULATION				
		TEMPORARY SIGNAL				
		PLAN NO 1 (30'X3)		90.00	0014	01
		PLAN NO 2 (30'X3)		90.00	0014	01
		PLAN NO 3 (50'X3)		150.00	0014	01
Item T04.5001 Total:				330.00		
S092	T04.5305	14 AWG 5 CONDUCTOR CABLE	LF			
		TEMPORARY SIGNAL				
		PLAN NO 1		445.00	0014	01
		PLAN NO 2		155.00	0014	01
		PLAN NO 3		430.00	0014	01
Item T04.5305 Total:				1,030.00		
S093	T04.5309	14 AWG 9 CONDUCTOR CABLE	LF			
		TEMPORARY SIGNAL				
		PLAN NO 1		75.00	0014	01
		PLAN NO 2		100.00	0014	01
Item T04.5309 Total:				175.00		
S094	T04.9902	VIDEO DETECTION SYSTEM CABLE	LF			
		TEMPORARY SIGNAL				
		PLAN NO 1		285.00	0014	01
		PLAN NO 2		170.00	0014	01
		PLAN NO 3		260.00	0014	01
Item T04.9902 Total:				715.00		

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S104	T14.3413	Cont. SIGNAL HEAD 12 INCH				
		TEMPORARY SIGNAL				
		PLAN NO 1		3.00	0014	01
		PLAN NO 2		1.00	0014	01
		PLAN NO 3		3.00	0014	01
Item T14.3413 Total:				7.00		
S105	T14.3423	2 WAY 3 SECTION SPAN MOUNTED	EACH			
		SIGNAL HEAD 12 INCH				
		TEMPORARY SIGNAL				
		PLAN NO 1		1.00	0014	01
		PLAN NO 2		2.00	0014	01
Item T14.3423 Total:				3.00		
S106	T14.3613	1 WAY 3 SECTION BRACKET MOUNTED	EACH			
		SIGNAL HEAD 12 INCH				
		TEMPORARY SIGNAL				
		PLAN NO 1		1.00	0014	01
		PLAN NO 2		1.00	0014	01
		PLAN NO 3		4.00	0014	01
Item T14.3613 Total:				6.00		
S107	T15.0100	DIRECTIONAL REGULATORY AND WARNING SIGNS	SF			
		SIGN LOCATION NUMBER				
		1-1 M1-5 RI 102 30X24		5.00	0014	01
		1-1 M3-3 SOUTH 24X12		2.00	0014	01
		1-10 M1-5 RI 7 24X24		4.00	0014	01
		1-10 M6-4 DOUBLE ARROW 21X15		3.00	0014	01
		1-11 M1-5 RI 7 24X24		4.00	0014	01
		1-11 M3-3 SOUTH 24X12		2.00	0014	01
		1-12 M1-5 RI 102 30X24		5.00	0014	01
		1-12 M3-3 SOUTH 24X12		2.00	0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S107	T15.0100	Cont.				
		1-12 M6-1R LEFT ARROW 21X15		3.00	0014	01
		1-13 M1-5 RI 102 30X24		5.00	0014	01
		1-13 M3-1 NORTH 24X12		2.00	0014	01
		1-13 M6-1L RIGHT ARROW 21X15		3.00	0014	01
		1-14 M1-5 RI 102 30X24		5.00	0014	01
		1-14 M3-1 NORTH 24X12		2.00	0014	01
		1-15 M1-5 RI 7 24X24		4.00	0014	01
		1-15 M3-1 NORTH 24X12		2.00	0014	01
		1-16 W5-1 ROAD NARROWS 36X36		9.00	0014	01
		1-17 R2-1 SPEED LIMIT 24X30		5.00	0014	01
		1-2 M1-5 RI 102 30X24		5.00	0014	01
		1-2 M3-1 NORTH 24X12		2.00	0014	01
		1-2 M6-1L LEFT ARROW 21X15		3.00	0014	01
		1-3 M1-5 RI 102 30X24		5.00	0014	01
		1-3 M3-1 SOUTH 24X12		2.00	0014	01
		1-3 M6-1R RIGHT ARROW 21X15		3.00	0014	01
		1-4 M1-5 RI 7 24X24		4.00	0014	01
		1-4 M6-4 DOUBLE ARROW 21X15		3.00	0014	01
		1-5 M1-5 RI 102 30X24		5.00	0014	01
		1-5 M3-3 SOUTH 24X12		2.00	0014	01
		1-5 M6-3 STRAIGHT ARROW 21X15		3.00	0014	01
		1-6 R3-7 RIGHT LANE MUST TURN RIGHT 30X30		7.00	0014	01
		1-7 M1-5 RI 7 24X24		4.00	0014	01
		1-7 M2-1 JCT 21X15		3.00	0014	01
		1-8 R3-7 RIGHT LANE MUST TURN RIGHT 30X30		7.00	0014	01
		1-9 M1-5 RI 102 30X24		5.00	0014	01
		1-9 M3-1 NORTH 24X12		2.00	0014	01
		1-9 M6-3 STRAIGHT ARROW 21X15		3.00	0014	01
Item T15.0100 Total:				135.00		

S108 T15.1000 STREET SIGN ASSEMBLY STD. 24.6.1 EACH

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S108	T15.1000 Cont.	BRONCOS HIGHWAY				
		DOUGLAS TPK		2.00	0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S108	T15.1000	Cont.		2.00		
Item T15.1000 Total:						
S109	T20.0706	6 INCH WHITE WATERBORNE PAINT	LF			
		PAVEMENT MARKINGS				
		BRONCOS HIGHWAY (*6-W*)				
		262+50 RT 11' TO 266+92 RT		442.00	0014	01
		21' (*6-W*)				
		262+50 TO 26+80 LT (*6-W*)		430.00	0014	01
		263+41 TO 265+03 RT 11' (3'		54.00	0014	01
		LINE) (*6-W*)				
		265+03 RT 11' TO 266+92 RT		189.00	0014	01
		11' (*6-W*)				
		268+00 TO 268+50 LT 12'		50.00	0014	01
		(*6-W*)				
		268+00 TO 270+00 LT 22'		200.00	0014	01
		(*6-W*)				
		268+00 TO 270+00 RT (*6-W*)		200.00	0014	01
		DOUGLAS TURNPIKE		323.00	0014	01
		INTERSECTION (*6-W*)				
Item T20.0706 Total:				1,888.00		
S110	T20.0712	12 INCH WHITE WATERBORNE PAINT	LF			
		PAVEMENT MARKINGS				
		BRONCOS HIGHWAY (*12W*)				
		266+92 NB STOP LINE (*12W*)		23.00	0014	01
		267+85 LT-RT CROSSWALK		240.00	0014	01
		(*12W*)				
		268+00 SB STOP LINE (*12W*)		25.00	0014	01
		DETOUR S.B (*12W*)				
		EAST AVENUE (*12W*)		30.00	0014	01
		GLENDALE BYPASS (*12W*)		21.00	0014	01
		VICTORY HIGHWAY (*12W*)		18.00	0014	01
		DOUGLAS TURNPIKE (*12W*)				

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S110	T20.0712 Cont.	NB STOP LINE (*12W*)		21.00	0014	01
		SB STOP LINE (*12W*)		38.00	0014	01
		EAST AVE				
		AT VICTORY HIGHWAY STOP LINE		30.00	0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S110	T20.0712 Cont.	GLENDALE BYPASS				
		RESTORE STOP LINE		20.00	0014	01
		PROJECTWIDE (*12W*)				
		AS DIRECTED BY ENGINEER		50.00	0014	01
		(*12W*)				
		VICTORY HIGHWAY				
		AT DOUGLAS TURNPIKE STOP LINE		20.00	0014	01
Item T20.0712 Total:				536.00		
S111	T20.0904	4 INCH YELLOW WATERBORNE PAINT	LF			
		PAVEMENT MARKINGS				
		BRONCOS HIGHWAY (*4DY*)				
		262+50 TO 266+92 (*4DY*)		884.00	0014	01
		268+00 TO 268+25 (*4DY*)		108.00	0014	01
		DOUGLAS TURNPIKE (*4DY*)		170.00	0014	01
		DOUGLAS TURNPIKE (*4DY*)				
		RESTORE DOUBLE YELLOW LINES		176.00	0014	01
		(*4DY*)				
		EAST AVENUE (*4DY*)				
		RESTORE DOUBLE YELLOW LINES		43.00	0014	01
		(*4DY*)				
		GLENDALE BYPASS (*4DY*)				
		RESTORE DOUBLE YELLOW LINES		60.00	0014	01
		(*4DY*)				
		PROJECTWIDE (*4DY*)				
		AS DIRECTED BY ENGINEER		100.00	0014	01
		(*4DY*)				
		VICTORY HIGHWAY (*4DY*)				
		AT GLENDALE BYPASS RESTORE		248.00	0014	01
		DOUBLE YELLOW LINES (*4DY*)				
Item T20.0904 Total:				1,789.00		
S112	T20.2406	6 INCH WHITE FINAL EPOXY RESIN	LF			

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S112	T20.2406	Cont. PAVEMENT MARKINGS				
		BRONCOS HIGHWAY (*6-W*)				
		262+50 RT 11' TO 266+92 RT 21' (*6-W*)		442.00	0014	01
		262+50 TO 26+80 LT (*6-W*)		430.00	0014	01
		263+41 TO 265+03 RT 11' (3' LINE) (*6-W*)		54.00	0014	01
		265+03 RT 11' TO 266+92 RT 11' (*6-W*)		189.00	0014	01
		268+00 TO 268+50 LT 12' (*6-W*)		50.00	0014	01
		268+00 TO 270+00 LT 22' (*6-W*)		200.00	0014	01
		268+00 TO 270+00 RT (*6-W*)		200.00	0014	01
		DOUGLAS TURNPIKE INTERSECTION (*6-W*)		323.00	0014	01
Item T20.2406 Total:				1,888.00		

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S113	T20.2412	12 INCH WHITE FINAL EPOXY RESIN	LF			
		PAVEMENT MARKINGS				
		BRONCOS HIGHWAY (*12W*)				
		266+92 NB STOP LINE (*12W*)		23.00	0014	01
		267+85 LT-RT CROSSWALK (*12W*)		240.00	0014	01
		268+00 SB STOP LINE (*12W*)		25.00	0014	01
		DETOUR S.B (*12W*)				
		EAST AVENUE (*12W*)		30.00	0014	01
		GLENDALE BYPASS (*12W*)		21.00	0014	01
		VICTORY HIGHWAY (*12W*)		18.00	0014	01
		DOUGLAS TURNPIKE (*12W*)				
		NB STOP LINE (*12W*)		21.00	0014	01
		SB STOP LINE (*12W*)		38.00	0014	01
		PROJECTWIDE (*12W*)				
		AS DIRECTED BY ENGINEER (*12W*)		50.00	0014	01
Item T20.2412 Total:				466.00		
S114	T20.2506	6 INCH WHITE INTERIM EPOXY RESIN	LF			
		PAVEMENT MARKINGS				
		MOHEGAN BRIDGE NO. 673				
		STAGE 1 (815'+52' CAT TRACKS)X2 APPLICATIONS		1,734.00	0014	01
		TRACKS)X2 APPLICATIONS				
		STAGE 2(838'+52' CAT TRACKS)X2 APPLICATIONS		1,780.00	0014	01
Item T20.2506 Total:				3,514.00		
S115	T20.2512	12 INCH WHITE INTERIM EPOXY RESIN	LF			
		PAVEMENT MARKINGS				
		DOUGLAS TURNPIKE				
		NB AT BRONCOS HIGHWAY		16.00	0014	01
		SB AT BRONCOS HIGHWAY		35.00	0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S115	T20.2512 Cont.	TEMP. SIGNAL #1		24.00	0014	01
		EAST AVENUE				
		TEMP. SIGNAL #2		30.00	0014	01
		GLENDALE BYPASS				
		SB AT VICTORY HIGHWAY		22.00	0014	01
		PROJECTWIDE				
		2ND APPLICATIONS		233.00	0014	01
		ROUTE 102				
		NB		22.00	0014	01
		SB		22.00	0014	01
		VICTORY HIGHWAY				
		EB AT EAST AVE		12.00	0014	01
		EB AT GLENDALE BYPASS		12.00	0014	01
		WB AT EAST AVE		22.00	0014	01
		WB AT GLENDALE BYPASS		16.00	0014	01
Item T20.2512 Total:				466.00		

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S116	T20.2804	4 INCH YELLOW FINAL EPOXY RESIN	LF			
PAVEMENT MARKINGS						
		BRONCOS HIGHWAY (*4DY*)				
		262+50 TO 266+92 (*4DY*)		884.00	0014	01
		268+00 TO 268+25 (*4DY*)		108.00	0014	01
		DOUGLAS TURNPIKE (*4DY*)		170.00	0014	01
		DOUGLAS TURNPIKE				
		RESTORE DOUBLE YELLOW LINES		176.00	0014	01
		DOUGLAS TURNPIKE (*4DY*)				
		RESTORE DOUBLE YELLOW LINES		176.00	0014	01
		(*4DY*)				
		EAST AVENUE (*4DY*)				
		RESTORE DOUBLE YELLOW LINES		43.00	0014	01
		(*4DY*)				
		GLENDALE BYPASS				
		RESTORE DOUBLE YELLOW LINES		60.00	0014	01
		GLENDALE BYPASS (*4DY*)				
		RESTORE DOUBLE YELLOW LINES		60.00	0014	01
		(*4DY*)				
		PROJECTWIDE (*4DY*)				
		AS DIRECTED BY ENGINEER		100.00	0014	01
		(*4DY*)				
		VICTORY HIGHWAY				
		AT GLENDALE BYPASS RESTORE		248.00	0014	01
		DOUBLE YELLOW LINES				
		VICTORY HIGHWAY (*4DY*)				
		AT GLENDALE BYPASS RESTORE		248.00	0014	01
		DOUBLE YELLOW LINES (*4DY*)				
Item T20.2804 Total:				2,273.00		

S117	T20.2904	4 INCH YELLOW INTERIM EPOXY RESIN	LF			
PAVEMENT MARKINGS						
		MOHEGAN BRIDGE NO. 673				

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S117	T20.2904	Cont.				
		DOUGLAS TURNPIKE TEMPORARY		160.00	0014	01
		SIGNAL				
		GLENDALE BYPASS TEMPORARY		60.00	0014	01
		SIGNAL				
		STAGE 1		800.00	0014	01
		STAGE 2		834.00	0014	01
		VICTORY HIGHWAY TEMPORARY		240.00	0014	01
		SIGNAL				
		PROJECTWIDE				
		2ND APPLICATIONS		2,094.00	0014	01
Item T20.2904 Total:				4,188.00		

S118	T20.2906	6 INCH YELLOW INTERIM EPOXY RESIN	LF			
		PAVEMENT MARKINGS				
		MOHEGAN BRIDGE NO. 673				
		STAGE 1 (415'+52' CAT		934.00	0014	01
		TRACKS)X2 APPLICATIONS				
		TRACKS)X2 APPLICATIONS				
		STAGE 2 (332'+52' CAT		768.00	0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S118	T20.2906	Cont.	Item T20.2906 Total:	1,702.00		
S119	T20.3401	FINAL EPOXY RESIN PAVEMENT MARKING SYMBOL - ARROW (STRAIGHT, LEFT, RIGHT OR COMBINED) STANDARD 20.1.0 BRONCOS HIGHWAY 266+80 RT (RIGHT ARROW) 268+25 LT (RIGHT ARROW) BURRILLVILLE MIDDLE SCHOOL (LEFT ARROW)	EACH	1.00 1.00 1.00	0014 0014 0014	01 01 01
Item T20.3401 Total:				3.00		
S120	T20.3501	INTERIM EPOXY RESIN PAVEMENT MARKING SYMBOL - ARROW (STRAIGHT, LEFT, RIGHT OR COMBINED) STANDARD 20.1.0 BRONCOS HIGHWAY BURRILLVILLE MIDDLE SCHOOL (RIGHT ARROW)	EACH	1.00	0014	01
Item T20.3501 Total:				1.00		
S121	T20.4506	REMOVE PAVEMENT MARKING LINE - LESS THAN OR EQUAL TO 6 INCHES WIDE DOUGLAS TURNPIKE TEMPORARY SIGNAL (90'X2) EAST AVE TEMPORARY SIGNAL (35'X2) GLENDALE BYPASS TEMPORARY SIGNAL (144'X2) MOHEGAN BRIDGE NO. 673 STAGE 1 (415'X2)	LF	180.00 70.00 288.00 830.00	0014 0014 0014 0014	01 01 01 01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
S121	T20.4506	Cont. VICTORY HIGHWAY				
		TEMPORARY SIGNAL		240.00	0014	01
Item T20.4506 Total:				3,528.00		
S122	T20.4508	REMOVE PAVEMENT MARKING LINE - GREATER THAN 6 INCHES WIDE	LF			
		DOUGLAS TURNPIKE				
		NB AT VICTORY HIGHWAY		16.00	0014	01
		SB AT VICTORY HIGHWAY		12.00	0014	01
		EAST AVENUE				
		SB AT VICTORY HIGHWAY (30'X2)		60.00	0014	01
		GLENDALE BYPASS				
		SB AT VICTORY HIGHWAY		34.00	0014	01
		ROUTE 102				
		STAGE 2		22.00	0014	01
		VICTORY HIGHWAY				
		EB AT DOUGLAS TURNPIKE		16.00	0014	01
		EB AT EAST AVE		12.00	0014	01
		EB AT GLENDALE BYPASS		12.00	0014	01
		WB AT EAST AVE		22.00	0014	01
		WB AT GLENDALE BYPASS		16.00	0014	01
Item T20.4508 Total:				222.00		
S123	T20.4511	REMOVE PAVEMENT MARKING SYMBOL - ARROW (STRAIGHT, LEFT, RIGHT OR COMBINED)	EACH			
		BRNCOS HIGHWAY				
		266+80 RT MPT STAGE 2 (RIGHT ARROW)		1.00	0014	01
		BURRILLVILLE MIDDLE SCHOOL LEFT ARROW		1.00	0014	01
		BURRILLVILLE MIDDLE SCHOOL RIGHT ARROW		1.00	0014	01
Item T20.4511 Total:				3.00		

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.	
S123	T20.4511	Cont.		Item T20.4511 Total:			
124	201.0403	REMOVE AND DISPOSE SIDEWALKS	SY				
		MOHEGAN BRIDGE 673					
		STA 267+50 TO 268+00 LT		50.00	0014	01	
		STA 267+95 RT		6.00	0014	01	
		Item 201.0403 Total:			56.00		
125	201.0421	REMOVE AND DISPOSE BITUMINOUS CURB	LF				
		MOHEGAN BRIDGE 673					
		STA 262+50 TO 263+85 LT		135.00	0014	01	
		STA 262+50 TO 263+85 RT		135.00	0014	01	
		STA 267+50 TO 268+00 LT		90.00	0014	01	
		Item 201.0421 Total:			360.00		
126	601.0200	CLASS XX PORTLAND CEMENT CONCRETE	CY				
		MOHEGAN BRIDGE 673 (RHHRC)					
		STA 263+85 TO 264+10 LT AND RT (RHHRC)		1.54	0014	01	
		STA 266+55 TO 266+75 LT (RHHRC)		0.62	0014	01	
		STA 266+55 TO 266+90 RT (RHHRC)		1.08	0014	01	
		STA 267+20, 45' LT (RHHRC)		0.15	0014	01	
		QUANTITY					
		ROUNDING		0.61	0014	01	
		Item 601.0200 Total:			4.00		
127	702.0543	GRANITE APRON STONE 38'' STANDARD	EACH				
		7.3.8					
		MOHEGAN BRIDGE 673					
		STA 263+50 LT AND RT		2.00	0014	01	
		STA 267+55, 65' LT		1.00	0014	01	
		Item 702.0543 Total:			3.00		

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
128	905.0110	PORTLAND CEMENT SIDEWALK	CY			
		MONOLITHIC STANDARD 43.1.0				
		MOHEGAN BRIDGE 673 (CC-SW)				
		STA 267+50 TO 268+00 LT		5.56	0014	01
		(CC-SW)				
		STA 267+95 TO 268+00 RT		1.11	0014	01
		(CC-SW)				
		QUANTITY				
		ROUNDING		0.33	0014	01
		Item 905.0110 Total:		7.00		
129	906.0110	GRANITE CURB, QUARRY SPLIT	LF			
		STRAIGHT, STANDARD 7.3.0				
		MOHEGAN BRIDGE 673				
		STA 262+50 TO 263+85 LT		135.00	0014	01
		STA 262+50 TO 263+85 RT		135.00	0014	01
		STA 267+50 TO 267+60 LT		30.00	0014	01
		Item 906.0110 Total:		300.00		
130	906.0111	GRANITE CURB, QUARRY SPLIT	LF			
		CIRCULAR, STANDARD 7.3.0				
		MOHEGAN BRIDGE 673				
		STA 266+75 TO 267+20 LT		50.00	0014	01
		STA 267+60 TO 268+00 LT		60.00	0014	01
		Item 906.0111 Total:		110.00		
131	906.0118	6' GRANITE TRANSITION CURB, QUARRY SPLIT SPECIAL TRANSITION STANDARD	EACH			
		7.3.2				
		MOHEGAN BRIDGE 673				
		STA 266+90, 25' RT		1.00	0014	01
		STA 267+20, 50' LT		1.00	0014	01
		STA 267+55, 90' LT		1.00	0014	01

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
131	906.0118	Cont.				
		STA 267+90, 30' LT		1.00	0014	01
		WHEELCHAIR RAMP				
		STA 268+00, 40' RT		1.00	0014	01
		WHEELCHAIR RAMP				
Item 906.0118 Total:				5.00		
132	906.0120	GRANITE WHEELCHAIR RAMP CURB	EACH			
		STANDARDS 7.3.3, 43.3.0 AND 43.3.1				
		MOHEGAN BRIDGE 673				
		STA 267+90, 30' LT		1.00	0014	01
		STA 268+00, 40' RT		1.00	0014	01
Item 906.0120 Total:				2.00		
133	906.0131	GRANITE RAMP STONE CIRCULAR	EACH			
		STANDARD 7.3.9				
		MOHEGAN BRIDGE 673				
		STA 267+90, 30' LT		1.00	0014	01
		STA 268+00, 40' RT		1.00	0014	01
Item 906.0131 Total:				2.00		
134	906.0700	REMOVE, HANDLE, HAUL TRIM RESET	LF			
		CURB EDGING, STRAIGHT, CIRCULAR				
		ALL TYPES				
		MOHEGAN BRIDGE 673 (RHHRC)				
		STA 263+85 TO 264+10 LT AND		50.00	0014	01
		RT (RHHRC)				
		STA 266+55 TO 266+75 LT		20.00	0014	01
		(RHHRC)				
		STA 266+55 TO 266+90 RT		35.00	0014	01
		(RHHRC)				
		STA 267+20, 45' LT (RHHRC)		5.00	0014	01
Item 906.0700 Total:				110.00		

Distribution of Quantities

Project Name - Bridge Group 43A - Mohegan
 Estimate Name - Bridge Group 43A - Mohegan (Addendum 3)
 R.I. Contract No. - 2020-CB-023
 FAP Nos: BRO-0673(002)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
135	942.0200	DETECTABLE WARNING PANEL STANDARD	SF			
		48.1.0				
		MOHEGAN BRIDGE 673				
		STA 267+90, 30' LT		8.00	0014	01
		STA 268+00, 40' RT		8.00	0014	01
Item 942.0200 Total:				16.00		
136	T11.0100	ANCHOR GUY ASSEMBLY CONSTRUCTED IN EACH PLACE				
		MOHEGAN BRIDGE				
		TEMP. SIGNAL NO. 1		4.00	0014	01
		TEMP. SIGNAL NO. 2		2.00	0014	01
		TEMP. SIGNAL NO. 3		2.00	0014	01
Item T11.0100 Total:				8.00		

Assembly Summary

Project Name: Bridge Group 43A - Mohegan

Estimate Name: Bridge Group 43A - Mohegan (Addendum 3)

R.I. Contract No.: 2020-CB-023

FAP Nos.:BRO-0673(002)

Item Code	Description	Depth	Factor	Qty
<u>Assembly: 12 INCH WHITE PAVEMENT MARKINGS (*12W*) (Unit: LF Default Quantity: 466.00)</u>				
T20.0712	12 INCH WHITE WATERBORNE PAINT PAVEMENT MARKINGS		1.00000	
T20.2412	12 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS		1.00000	
	BRONCOS (*12W*) (*12W*)			
	266+92 NB ST(*12W*) (*12W*)			23.00
	268+00 SB ST(*12W*) (*12W*)			25.00
	267+85 LT-RT CR(*12W*) (*12W*)			240.00
	DOUGLAS T(*12W*) (*12W*)			
	NB ST(*12W*) (*12W*)			21.00
	SB ST(*12W*) (*12W*)			38.00
	DETOUR S.B (*12W*)			
	EAST AVENUE (*12W*)			30.00
	GLENDALE BYPASS (*12W*)			21.00
	VICTORY HIGHWAY (*12W*)			18.00
	PROJECTWIDE (*12W*)			
	AS DIRECTED BY ENGINEER (*12W*)			50.00

Assembly Summary

Project Name:

Estimate Name:

R.I. Contract No.:

FAP Nos.:

Item Code	Description	Depth	Factor	Qty
<u>Assembly: 4 INCH DOUBLE YELLOW PAVEMENT MARKINGS (*4DY*) (Unit: LF Default Quantity: 1789.00)</u>				
T20.0904	4 INCH YELLOW WATERBORNE PAINT PAVEMENT MARKINGS		1.00000	
T20.2804	4 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS		1.00000	
	BRNCOS (*4DY*) (*4DY*)			
	262+50 TO(*4DY*) (*4DY*)			884.00
	268+00 TO(*4DY*) (*4DY*)			108.00
	DOUGLAS T(*4DY*) (*4DY*)			170.00
	DOUGLAS TURNPIKE (*4DY*)			
	RESTORE DOUBLE YELLOW LINES (*4DY*)			176.00
	GLENDALE BYPASS (*4DY*)			
	RESTORE DOUBLE YELLOW LINES (*4DY*)			60.00
	VICTORY HIGHWAY (*4DY*)			
	AT GLENDALE BYPASS RESTORE DOUBLE YELLOW LINES (*4DY*)			248.00
	EAST AVENUE (*4DY*)			
	RESTORE DOUBLE YELLOW LINES (*4DY*)			43.00
	PROJECTWIDE (*4DY*)			
	AS DIRECTED BY ENGINEER (*4DY*)			100.00
<u>Assembly: 6 INCH WHITE PAVEMENT MARKINGS (*6-W*) (Unit: LF Default Quantity: 1888.00)</u>				
T20.0706	6 INCH WHITE WATERBORNE PAINT PAVEMENT MARKINGS		1.00000	
T20.2406	6 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS		1.00000	
	BRNCOS (*6-W*) (*6-W*)			
	262+50 TO 26+80 LT (*6-W*)			430.00
	268+00 TO 270+00 LT 22' (*6-W*)			200.00
	268+00 TO 268+50 LT 12' (*6-W*)			50.00
	262+50 RT 11' TO 266+92 RT 21' (*6-W*)			442.00
	265+03 RT 11' TO 266+92 RT 11' (*6-W*)			189.00
	263+41 TO 265+03 RT 11' (3' LINE) (*6-W*)			54.00
	268+00 TO 270+00 RT (*6-W*)			200.00
	DOUGLAS TURNPIKE INTERSECTION (*6-W*)			323.00

Assembly Summary

Project Name:

Estimate Name:

R.I. Contract No.:

FAP Nos.:

Item Code	Description	Depth	Factor	Qty
<u>Assembly: RIPRAP WATERWAY (8.3.0) (Unit: SY Default Quantity: 64.00)</u>				
204.0100	TRIMMING AND FINE GRADING	-	1.00000	
920.0040	DUMPED STONE RIPRAP R-3, R-4, R-5 STANDARD 8.3.0	18"	1.00000	
920.0130	BEDDING FOR RIPRAP FS-1 STANDARD 8.3.0	6"	1.00000	
920.0200	FILTER FABRIC FOR RIP-RAP	-	1.00000	
	MOHEGAN BRIDGE (8.3.0)			
	STA 269+05 LT (8.3.0)			10.00
	STA 269+05 RT (8.3.0)			45.00
	STA 265+60, 42' RT (8.3.0)			9.00
<u>Assembly: BITUMINOUS PAVED WATERWAY (8.4.0) (Unit: SY Default Quantity: 40.00)</u>				
711.0110	3" PAVED WATERWAY CLASS I-1 STANDARD 8.4.0	-	1.00000	
	MOHEGAN BRIDGE (8.4.0)			
	STA 269+05 LT (8.4.0)			6.50
	STA 269.05 RT (8.4.0)			6.50
	STA 265+60 TO 266+00, 42' RT (8.4.0)			27.00
<u>Assembly: BITUMINOUS BERM STD 7.5.1A (BERMA) (Unit: LF Default Quantity: 567.00)</u>				
201.0409	REMOVE AND DISPOSE FLEXIBLE PAVEMENT		0.11111	
204.0100	TRIMMING AND FINE GRADING		0.27778	
302.0100	GRAVEL BORROW SUBBASE COURSE	12"	0.09260	
401.1000	CLASS 19.0 HMA	7"	0.09264	
401.2100	MODIFIED CLASS 12.5 HMA	3.5" AVG	0.04792	
403.0300	ASPHALT EMULSION TACK COAT		0.66667	
906.0602	BITUMINOUS BERM STANDARD 7.5.1		1.00000	
932.0200	FULL-DEPTH SAWCUT OF BITUMINOUS PAVEMENT		1.00000	
	BRNCOS (BERMA) (BERMA)			
	268+01, 29' LT TO 271+00,(BERMA) (BERMA)			284.00
	268+02, 36' RT TO 271+00,(BERMA) (BERMA)			283.00

Assembly Summary

Project Name:

Estimate Name:

R.I. Contract No.:

FAP Nos.:

Item Code	Description	Depth	Factor	Qty
<u>Assembly: CEMENT CONCRETE SIDEWALK (CC-SW) (Unit: SY Default Quantity: 60.00)</u>				
202.0100	EARTH EXCAVATION	12"	0.33333	
204.0100	TRIMMING AND FINE GRADING	-	1.00000	
302.0100	GRAVEL BORROW SUBBASE COURSE	8"	0.22222	
905.0110	PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD 43.1.0	4"	0.11111	
	MOHEGAN BRIDGE 673 (CC-SW)			
	STA 267+50 TO 268+00 LT (CC-SW)			50.00
	STA 267+95 TO 268+00 RT (CC-SW)			10.00
<u>Assembly: PAVEMENT TYPE P (MICRO) (Unit: SY Default Quantity: 1891.00)</u>				
401.2100	MODIFIED CLASS 12.5 HMA	2"	0.12931	
403.0300	ASPHALT EMULSION TACK COAT	-	1.00000	
935.0400	REMOVING BITUMINOUS PAVEMENT BY MICRO MILLING	2"	1.00000	
	BRONCOS HIGHWAY (MICRO)			
	262+50 TO 263+40 (MICRO)			486.00
	267+00 TO 268+25 (MICRO)			1405.00
<u>Assembly: PAVEMENT TYPE P-1 (PAVE1) (Unit: SY Default Quantity: 700.00)</u>				
201.0409	REMOVE AND DISPOSE FLEXIBLE PAVEMENT	10"+/-	1.00000	
202.0100	EARTH EXCAVATION	12"	0.33333	
204.0100	TRIMMING AND FINE GRADING	-	1.00000	
302.0100	GRAVEL BORROW SUBBASE COURSE	12"	0.33333	
401.1000	CLASS 19.0 HMA	8"	0.48850	
401.2100	MODIFIED CLASS 12.5 HMA	2"	0.12931	
403.0300	ASPHALT EMULSION TACK COAT	-	2.00000	
	BRONCOS HIGHWAY (PAVE1)			
	263+40 TO 264+20 (PAVE1)			427.00
	266+46 TO 267+00 (PAVE1)			273.00

Assembly Summary

Project Name:

Estimate Name:

R.I. Contract No.:

FAP Nos.:

Item Code	Description	Depth	Factor	Qty
<u>Assembly: PLANTABLE SOIL (PSOIL) (Unit: SY Default Quantity: 2850.00)</u>				
204.0100	TRIMMING AND FINE GRADING	-	1.00000	
L01.0104	PLANTABLE SOIL 4 INCHES DEEP	4"	1.00000	
L02.0101	GENERAL HIGHWAY SEEDING (TYPE 1)	-	1.00000	
	BRONCOS HIGHWAY (PSOIL)			
	262+12 LT TO BRIDGE (PSOIL)			383.00
	262+30 RT TO BRIDGE (PSOIL)			296.00
	BRIDGE NE TO DOUGLAS TURNPIKE (PSOIL)			284.00
	BRIDGE SE TO DOUGLAS TURNPIKE (PSOIL)			820.00
	DOUGLAS TURNPIKE TO 271+00 LT (PSOIL)			416.00
	DOUGLAS TURNPIKE TO 271+00 RT (PSOIL)			651.00
<u>Assembly: REMOVE AND RESET CURB (RHHRC) (Unit: LF Default Quantity: 110.00)</u>				
201.0409	REMOVE AND DISPOSE FLEXIBLE PAVEMENT	-	0.11111	
202.0100	EARTH EXCAVATION	-	0.03704	
204.0100	TRIMMING AND FINE GRADING	-	0.11111	
302.0100	GRAVEL BORROW SUBBASE COURSE	-	0.03704	
403.0300	ASPHALT EMULSION TACK COAT	-	0.11111	
601.0200	CLASS XX PORTLAND CEMENT CONCRETE	10"	0.03086	
906.0700	REMOVE, HANDLE, HAUL TRIM RESET CURB EDGING, STRAIGHT, CIRCULAR ALL TYPES	-	1.00000	
	MOHEGAN BRIDGE 673 (RHHRC)			
	STA 263+85 TO 264+10 LT AND RT (RHHRC)			50.00
	STA 266+55 TO 266+75 LT (RHHRC)			20.00
	STA 266+55 TO 266+90 RT (RHHRC)			35.00
	STA 267+20, 45' LT (RHHRC)			5.00