

July 31, 2006

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION  
DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO. 2006-CH-072

FEDERAL-AID PROJECT NO. FAP Nos: BRO-1950(104)

**Improvements To Interstate Route 195 Interim Shoring South Water Street On Ramp Bridge No. 524**

South Water Street On Ramp, Bridge No. 524 from James Street to Bridge Street approximately 0.165 miles.

CITY/TOWN OF PROVIDENCE

COUNTY OF PROVIDENCE

RHODE ISLAND

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 3

Prospective bidders and all concerned are hereby notified of the following changes in the Specifications, Proposal, Plans, and Distribution of Quantities for the Improvements to Interstate Route 195, Interim Shoring, South Water Street On Ramp, Bridge No. 524 in the city of Providence, Rhode Island, Providence County. These Changes shall be incorporated in the Specifications, Proposal, Plans, and Distribution of Quantities, and shall become an integral part of the Contract Documents.

**A . Contract Documents**

1. General Provisions - Contract Specific

a Page CS-1

Delete page CS-1 in its entirety and insert revised page CS-1 (R-1) attached to this Addendum. Sheet No. 5A has been added to the List of Contract Drawings.

b Page CS-2

Delete page CS-2 in its entirety and insert revised page CS-2 (R-1) attached to this Addendum. Underdeck Shielding has been added to the list of Shop Drawing Requirements.

c Page CS-8

Delete page CS-8 in its entirety and insert revised page CS-8 (R-1) attached to this Addendum. Pigeon Guano has been removed from the list of Removal and Disposal of Hazardous Materials.

2. Specifications-Job Specific

a Page JS-i

Delete page JS-i in its entirety and insert revised page JS-i (R-1) attached to this Addendum. Items 803.9903, 806.9901 and 806.9902 have been added to the list and items 203.9901, 803.9901, 803.9902, 805.9901, 824.9901 and 824.9906 have been revised.

b Page JS-2

Delete page JS-2 in its entirety and insert revised page JS-2 (R-1) attached to this Addendum. Item 203.9901 (Filter Fabric Under Riprap) has been revised.

c Page JS-4

Delete page JS-4 in its entirety and insert revised page JS-4 (R-1) attached to this Addendum. Item 803.9901 (Saw Cut Full Depth in Concrete Bridge Deck) has been revised.

d Page JS-5

Delete page JS-5 in its entirety and insert revised page JS-5 (R-1) attached to this Addendum. Item 803.9902 (Cut Existing Diaphragms) has been revised.

e Page JS-5A

Insert new page JS-5A attached to this Addendum. Item 803.9903 (Furnish, Fabricate, and Remove and Dispose Underdeck Shielding) has been added.

f Pages JS-6 and JS-7

Delete pages JS-6 and JS-7 in their entirety and insert revised pages JS-6 (R-1), JS-7 (R-1) and new page JS-7A attached to this Addendum. Item 805.9901 (Gabion Wall) has been revised.

g Pages JS-7B through JS-7D

Insert new pages JS-7B through JS-7D attached to this Addendum. Items 806.9901 and 806.9902 (Remove, Dispose, and Replace Existing Underdeck Shoring - Land and Remove, Dispose, and Replace Existing Underdeck Shoring - River) have been added.

h Pages JS-10 through JS-14

Delete pages JS-10 through JS-14 in their entirety and insert revised pages JS-10 (R-1) through JS-14 (R-1) attached to this Addendum. Items 824.9901 and 824.9906 (Furnish, Fabricate, and Erect Supplemental Girder Shoring - Type A - Land and (Furnish, Fabricate, and Erect Supplemental Girder Shoring - Type C) have been revised.

3. Proposal

a Page P-2

Delete page P-2 in its entirety and insert page P-2 (R-1) attached to this Addendum. Item Codes 201.0401 and 201.0450 have been revised and Item Code 201.0454 has been deleted.

b Page P-3

Delete page P-3 in its entirety and insert page P-3 (R-1) attached to this Addendum. Item 302.0100 has been revised.

c Page P-4

Delete page P-4 in its entirety and insert page P-4 (R-1) attached to this Addendum. Item Code 810.0200 has been revised.

d Page P-5

Delete page P-5 in its entirety and insert revised page P-5 (R-1) attached to this Addendum. Item Code 901.0901 has been deleted and Item Codes 906.0720 and 916.0600 have been revised.

e Page P-6

Delete page P-6 in its entirety and insert revised page P-6 (R-1) attached to this Addendum. Item Codes 920.0080, 922.0100, 924.0113 and 926.0130 have been revised.

f Pages P-8 and P-9

Delete pages P-8 and P-9 in their entirety and insert revised pages P-8 (R-1) and P-9 (R-1) attached to this Addendum. Item Code T20.2112 has been deleted and Item Codes 201.0415, 301.0300, 803.9903, 806.9901, 806.9902, 901.0191, 901.0193, 901.9901, 909.3020, 923.0200, 926.9901 and T20.2012 have been added.

g Pages P-10 and P-11

Delete pages P-10 and P-11 in their entirety and insert revised pages P-10 (R-3) and P-11 (R-3) attached to this Addendum. Addendum No. 3 has been added.

4. Distribution of Quantities

a Table of Contents

Delete Index page 1 in its entirety and insert revised index pages 1 (R-1) and new Index page 2 (R-1) attached to this Addendum. Item Codes 201.0401, 201.0450, 302.0100, 810.0200, 906.0720, 916.0600, 920.0080, 922.0100, 924.0113 and 926.0130 have been revised, and Item Codes 201.0415, 301.0300, 803.9903, 806.9901, 806.9902, 901.0191, 901.0193, 901.9901, 909.3020, 923.0200, 926.9901 and T20.2012 have been added and Item Codes 201.0454, 901.0901 and T20.2112 have been deleted.

b Item Codes 201.0401, 201.0450 and 201.0454

Delete page 1 in its entirety and insert revised page 1 (R-1) attached to this Addendum. Item Codes 201.0401 and 201.0450 have been revised and Item Code 201.0454 has been deleted.

c Item Code 302.0100

Delete page 3 in its entirety and insert revised page 3 (R-1) and new page 3a attached to this Addendum. Item Code 302.0100 has been revised and the description for Item Code 403.0300 shifted onto page 3a..

d Item Codes 810.0200 and 901.0901

Delete pages 5 and 6 in their entirety and insert revised page 5 (R-1) and 6 (R-1) attached to this Addendum. Item Code 810.0200 has been revised and Item Code 901.0901 has been deleted.

e Item Code 906.0720

Delete page 7 in its entirety and insert revised page 7 (R-1) attached to this Addendum. Item Code 906.0720 has been revised.

f Item Codes 916.0600, 920.0080, 922.0100, 924.0113 and 926.0130

Delete pages 8, 9 and 10 in their entirety and insert revised pages 8 (R-1), 9 (R-1) and 10 (R-1) attached to this Addendum. Item Codes 916.0600, 920.0080, 922.0100, 924.0113 and 926.0130 have been revised

g Item Codes T20.2112, 201.0415, 301.0300, 803.9903, 806.9901, 806.9902, 901.0191, 901.0193, 901.9901, 909.3020, 923.0200, 926.9901 and T20.2012

Delete page 12 in its entirety and insert revised page 12 (R-1) and new pages 13, 14 and 15 attached to this Addendum. Item Code T20.2112 has been deleted and Item Codes 201.0415, 301.0300, 803.9903, 806.9901, 806.9902, 901.0191, 901.0193, 901.9901, 909.3020, 923.0200, 926.9901 and T20.2012 have been added.

## **B . Plans**

1. Cover Sheet

Delete Index of Drawings in its entirety and insert revised Index of Drawings attached to this Addendum. Underdeck Shoring Details Sheet has been added to the Index of Drawings as Sheet 5A.

2. General Notes

Delete General Notes in its entirety and insert revised General Notes attached to this Addendum. Material notes for timber, shop drawing requirements for timber and underdeck shielding, and underdeck shoring notes have been added.

3. Girder Shoring Plan 1, So. Water St. On Ramp Bridge, No. 524

Delete Girder Shoring Plan 1, So. Water St. On Ramp Bridge, No. 524 in its entirety and insert revised Girder Shoring Plan 1, So. Water St. On Ramp Bridge, No. 524 attached to this Addendum. The distance to the full depth saw cut in the deck has been revised. The outline of the traffic barrier to remain has been added. The location of the existing timber sheeting has been clarified. Areas of existing underdeck shoring to be removed, disposed and replaced have been highlighted, a related symbol added to the legend and the note that read 'EXISTING UNDERDECK SHORING NOT SHOWN, FOR CLARITY' with a leader has been revised to 'NOTE: EXISTING UNDERDECK SHORING TO REMAIN NOT SHOWN, FOR CLARITY' without a leader to indicate a general description of the fact that underdeck shoring has not been shown unless it is being replaced. The outlines of the proposed concrete footings at Piers D3 and D5 have been darkened.

4. Girder Shoring Plan 2, So. Water St. On Ramp Bridge, No. 524

Delete Girder Shoring Plan, 2, So. Water St. On Ramp Bridge, No. 524 in its entirety and insert revised Girder Shoring Plan 2, So. Water St. On Ramp Bridge, No. 524 attached to this Addendum. The distance to the full depth saw cut in the deck has been revised. The outline of the traffic barrier to remain has been added. Areas of existing underdeck shoring to be removed, disposed and replaced have been highlighted, a related symbol added to the legend and the note that read 'EXISTING UNDERDECK SHORING NOT SHOWN, FOR CLARITY' with a leader has been revised to 'NOTE: EXISTING UNDERDECK SHORING TO REMAIN NOT SHOWN, FOR CLARITY' without a leader to indicate a general

description of the fact that underdeck shoring has not been shown unless it is being replaced. Limits of underdeck shielding to be provided have been added.

5. Underdeck Shoring Details

Insert new plan sheet No. 5A Underdeck Shoring Details attached to this Addendum.

6. Shoring Type A & Type C Schedules, Bearing Details

Delete Shoring Type A & Type C Schedules, Bearing Details in its entirety and insert revised Shoring Type A & Type C Schedules, Bearing Details attached to this Addendum. A note to trim excess from shim plates has been added. A note regarding snug-tight fit requirements for the Type C shoring details and references to the note have been added.

7. Typical Girder Shoring Details 2

Delete Typical Girder Shoring Details 2 in its entirety and insert revised Typical Girder Shoring Details 2 attached to this Addendum. Section A has been revised. The distance to the sawcut has changed. Traffic barrier to remain is now shown. An approximate lane width has been added.

8. Highway Legend and General Notes

Delete Highway Legend and General Notes in its entirety and insert revised Highway Legend and General Notes attached to this Addendum. RI Standards 26.1.0 and 40.5.0 have been added to the Symbols, Signs W3-4 and W20-7a have been added to the Sign Legend and ETP, FP, GCD, GRD, 34.2.0 and 40.2.0 have been added to the Legend, and RRR and MGR have been deleted from the Legend.

9. General Plan No. 1

Delete General Plan No. 1 in its entirety and insert revised General Plan No. 1 attached to this Addendum. The distance to the full depth saw cut in the deck has been revised.

10. General Plan No. 2

Delete General Plan No. 2 in its entirety and insert revised General Plan No. 2 attached to this Addendum. A new guardrail Standard 34.2.0 with an Extrudal Terminal Approach Section (ET-PLUS) and a Terminal End Section Standard 34.3.4 has been added to replace a deteriorated existing guardrail along the westerly side of existing Ramp SR-5. In addition, a single face precast concrete barrier has been added adjacent to existing Pier D12 between Ramps CR-2 and SR-7.

11. General Details

Delete General Details in its entirety and insert revised General Details attached to this Addendum. The Typical Section Thru Ramp CR-2, SR-7 and SR-5 has been revised. The Section Thru Ramp CR-1 and Section A-A have been revised and a new detail for the New Permanent Barrier at Pier 12 has been added.

12. Traffic Control Plan No. 1 Ramp CR-1

Delete Traffic Control Plan No. 1 Ramp CR-1 in its entirety and insert revised Traffic Control Plan No. 1 Ramp CR-1 attached to this Addendum. The dimensions associated with the Permanent Right Side Closure on Ramp CR-1 have been revised and also new details for Temporary Left or Right Side Ramp Closures have been added.

13. Traffic Control Plan No. 4 Ramp CR-2 and SR-7

Delete Traffic Control Plan No. 4 Ramp CR-2 and SR-7 in its entirety and insert revised Traffic Control Plan No. 4 Ramp CR-2 and SR-7 attached to this Addendum. Note No. 2 has been added to the plan.

  
Federal Highway Administration  
Division Administrator

  
Edmund T. Parker Jr., P.E.  
Chief Engineer

**1. BRIEF SCOPE OF WORK:**

**R-1**

Rhode Island Contract No. 2006-CH-072, County of Providence, City of Providence, Rhode Island, Improvements to Interstate Route 195, Interim Shoring South Water Street On Ramp, Bridge No. 524 from James Street to Bridge Street, a distance of approximately 0.165 miles. The contract shall include but not be limited to the following;

Furnishing and installing supplemental girder shoring systems at bridge piers, restoration of exit ramps, guardrail removal and replacement, and temporary traffic control for the roads beneath the subject bridge.

**2. LIST OF CONTRACT DRAWINGS:**

<b><u>Plan</u></b>	<b><u>Description</u></b>
1.	Cover Sheet
2.	General Notes
3.	List of Abbreviations
4.	Girder Shoring Plan 1 South Water Street, On Ramp Bridge No, 524
5.	Girder Shoring Plan 2 South Water Street, On Ramp Bridge No, 524
5A.	Underdeck Shoring Details
6.	Shoring Type A & Type C Schedules Bearing Details
7.	Typical Girder Shoring Elevations Type A
8.	Typical Girder Shoring Elevations Type C
9.	Typical Girder Shoring Details 1
10.	Typical Girder Shoring Details 2
11.	Highway Legend and General Notes
12.	General Plan No. 1
13.	General Plan No. 2
14.	General Details
15.	Traffic Control Plan No. 1 Ramp CR-1
16.	Traffic Control Plan No. 2 Ramp SR-5 and SR-7
17.	Traffic Control Plan No. 3 Ramp CR-2
18.	Traffic Control Plan No. 4 Ramp CR-2 and SR-7

**Addendum No. 3**

**CS-1**

**Rhode Island Specifications and Standard Details**

Specifications to govern this project are the Rhode Island Standard Specifications for Road and Bridge Construction, 2004 Edition, with all revisions and the State and Federal Special Provisions included in the Contract Documents. Standard details for this project are R.I. Standard Details, June 15, 1998 Edition.

**3. SHOP DRAWING REQUIREMENTS**

The Contractor shall prepare and submit for review and approval by the Engineer shop drawings for the following items:

- a. Structural Steel - Material Certifications - Welding Submittals
- b. Elastomeric Bearings
- c. Timber - Material Certifications
- d. Drill and set Adhesive Anchors
- e. Underdeck Shielding

**4. UTILITY AND MUNICIPAL NOTIFICATION AND COORDINATION:**

The contractor shall contact DIG SAFE (1-800-225-4977) prior to construction.

The following persons can be contacted for information regarding utilities, verification, or monitoring.

<u>Agency</u>	<u>Telephone</u>	<u>Contact Person</u>
Narragansett Electric Company	(401) 267-6712	George Bolden
Verizon Communications	(401) 727-9543	Anthony Filomeno
New England Gas Company	(401) 272-5040	Albert A. Marsocci, Jr
Narragansett Bay Commission	(401) 272-6680	Thomas G. Brueckner
Providence Water Supply Board	(401) 521-6300	Paul Gadoury
City of Providence Fire-Alarm	(401) 461-4649	Joseph McGarry
City of Providence Department of Public Works	(401) 467-7950	William Bombard
Cox Communications	(401) 828-2288	David Velilla

**5. COORDINATION WITH OTHER CONTRACTS**

The Contractor is advised that other construction will be taking place in the area, and it will be the contractor’s responsibility to proactively coordinate his work so that it will be done in a timely manner.

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interest of abutters and public requires it, the Contractor shall bridge or construct plank crossings over trenches at street crossings, roads, or private ways, or provide such temporary means of crossing and guarding as shall be acceptable to the Engineer. The Contractor shall conduct his work for this objective in such a manner as the Engineer may direct from time to time.

**18. ENVIRONMENTAL PERMITS:**

A copy of the Coastal Resources Managements Council (CRMC) maintenance assent is attached on Page CS-XX. It lists certain conditions that shall be required when working in the Providence River in addition to those listed below.

- a. **VHF-FM marine radios set to the bridge communication channels 16/13 or the designated channel for the bridge must be maintained at the project site monitored by the supervisor in charge.** Additional marine radios monitoring the above channels must also be maintained at the main control of any floating equipment or barges on station.
- b. Preventive measures must be taken to prevent any hot work, debris, or construction material from entering the waterway. This includes sandblasting material, paint, and any concrete work by-products.

**19. REMOVAL AND DISPOSAL OF HAZARDOUS MATERIALS:**

- a. **Lead Paint Abatement** - The Contractor is alerted that the existing paint is lead-based. Any removal and disposal of paint for the operations described herein shall be performed in a legal manner, and in accordance with all State and Federal health and environmental regulations.

**20. SPECIAL AWARD AND SUBMISSION REQUIREMENTS:**

A. Pre Award (Apparent Low Bidder)

1. The Contractor is hereby notified that the contract award will be within 30 days following the scheduled bid opening date.

**SPECIFICATIONS – JOB SPECIFIC**

**Index**

<b><u>Item</u></b>	<b><u>Description</u></b>	<b><u>Page</u></b>
<b>203.9901</b>	<b>Filter Fabric Under RipRap</b>	<b>JS-1</b>
<b>212.1000</b>	<b>Maintenance and Cleaning of Erosion and Pollution Controls</b>	<b>JS-3</b>
<b>803.9901</b>	<b>Saw Cut Full Depth In Concrete Bridge Deck</b>	<b>JS-4(R-1)</b>
<b>803.9902</b>	<b>Cut Existing Diaphragms</b>	<b>JS-5(R-1)</b>
<b>803.9903</b>	<b>Furnish, Fabricate, and Remove and Dispose Underdeck Shielding</b>	<b>JS-5A</b>
<b>805.9901</b>	<b>Gabion Wall</b>	<b>JS-6(R-1)</b>
<b>806.9901</b>	<b>Remove, Dispose, and Replace Existing Underdeck Shoring – Land</b>	<b>JS-7B</b>
<b>806.9902</b>	<b>Remove, Dispose, and Replace Existing Underdeck Shoring – River</b>	<b>JS-7B</b>
<b>819.9901</b>	<b>Drill and Set Concrete Adhesive Anchors</b>	<b>JS-8</b>
<b>824.9901</b>	<b>Furnish, Fabricate, and Erect Supplemental Girder Shoring-Type A-Land</b>	<b>JS-10</b>
<b>824.9906</b>	<b>Furnish, Fabricate, and Erect Supplemental Girder Shoring-Type C</b>	<b>JS-10</b>
<b>906.1000</b>	<b>Dust Control</b>	<b>JS-15</b>
<b>937.1000</b>	<b>Maintenance and Movement of Traffic Protective Devices</b>	<b>JS-16</b>
<b>938.1000</b>	<b>Price Adjustments</b>	<b>JS-17</b>

C. Installation Procedures:

1. The surface on which the geotextile is to be placed shall be excavated to design grade to provide a smooth graded surface free of debris and large cavities.
2. In the interim between preparation of the subgrade and placement of the riprap, the geotextile shall be well protected to prevent any degradation due to exposure to the elements.
3. The geotextile shall be laid smooth without wrinkles or folds on the prepared subgrade in the direction of construction traffic. Adjacent geotextile rolls shall be overlapped or sewn. See AASHTO M 288 Table A1 for overlap requirements.
4. On curves the geotextile may be folded or cut to conform to the curves. The fold or overlap shall be in the direction of construction and held in place by pins, staples, or piles of fill or rock.
5. Prior to covering, the geotextile shall be inspected to ensure that the geotextile has not been damaged (i.e., holes, tears, rips) during installation. The inspection shall be done by the Engineer. Damaged geotextiles, as identified by the Engineer, shall be repaired immediately in accordance with the manufacturer's recommended procedures. Cover the damaged area with a geotextile patch which extends an amount equal to the required overlap beyond the damaged area.
6. The riprap shall be placed by end dumping onto the geotextile from the edge of the geotextile. Construction vehicles shall not be allowed directly on the geotextile.
7. Any ruts occurring during construction shall be filled with additional riprap material. Prior to filling with riprap, the Engineer shall be notified so he can re-inspect the geotextile.
8. If placement of the backfill material causes damage to the geotextile, the damaged area shall be repaired as described in section AASHTO M288 A2.1.3.1. The placement procedures shall then be modified to eliminate further damage from taking place (i.e., increase initial lift thickness, decrease equipment loads, etc.).

**METHOD OF MEASUREMENT:** Item code 203.9901 "Filter Fabric Under Riprap" shall be measured by the square foot measured in plan furnished, installed, complete, and accepted in accordance with the Rhode Island Standard Specifications and these Special Provisions. No additional quantity shall be included for seams or overlaps between successive sheets of geotextiles

**BASIS OF PAYMENT:** The accepted quantity of Item Code 203.9901, "Filter Fabric Under Riprap", as determined under the "METHOD OF MEASUREMENT" section above shall be paid for at the contract unit price bid per square foot, as designated in the PROPOSAL.

These payments shall constitute full compensation for all labor, equipment, tools, accessories, and incidentals necessary to complete the work in accordance with this Special Provision and as indicated on the Contract Drawings.

JS-2

Addendum 3

**803.9901**

**SAW CUT FULL DEPTH IN CONCRETE BRIDGE DECK**

**DESCRIPTION:** This work consists of saw cutting existing reinforced concrete bridge decks at the locations indicated on the Plans or as directed by the Engineer, all in accordance with these Specifications and the Rhode Island Standard Specifications.

**MATERIALS:** Not applicable.

**CONSTRUCTION METHODS:** A vertical cut through the full depth of the deck and haunches, including all steel reinforcement, shall be made to the limits and as shown on the plans. The barrier shall be installed on the ramp complete and accepted by the Engineer prior to commencing the saw cut. The Contractor shall determine the procedure and method to be used to assure a neat line in the finished work and to minimize the damage to the existing concrete and reinforcing steel to remain. The steel reinforcement must be cut flush with the sawcut line. The type of saw and the method of support to be used will be subject to the approval of the Engineer. The Contractor shall note the presence of timber underdeck shoring in the bays to be saw cut. Areas of underdeck shoring shall be removed and disposed of in accordance with Sections 806.9901 "Remove, Dispose and Replace Existing Underdeck Shoring - Land" and 806.9902 "Remove, Dispose and Replace Existing Underdeck Shoring - River." Underdeck shielding shall be installed over traffic areas as shown on the Plans and in accordance with Section 803.9903 "Furnish, Fabricate, Erect, Remove and Dispose Underdeck Shielding" prior to commencing the saw cut. Following the saw cut operations the underdeck shielding shall be removed and disposed of in accordance with Section 803.9903 "Furnish, Fabricate, Erect, Remove and Dispose Underdeck Shielding". Following removal and disposal of the underdeck shielding, areas of underdeck shoring shall be replaced in accordance with Sections 806.9901 "Remove, Dispose and Replace Existing Underdeck Shoring - Land" and 806.9902 "Remove, Dispose and Replace Existing Underdeck Shoring - River."

**METHOD OF MEASUREMENT:** The quantity of Item Code 803.9901, "Saw Cut Full Depth in Concrete Bridge Deck" shall be measured by the number of linear feet actually cut in accordance with the Plans and/or as directed by the Engineer. Items 803.9903 "Furnish, Fabricate, Erect, Remove and Dispose Underdeck Shielding" and 806.9901 "Remove, Dispose and Replace Existing Underdeck Shoring - Land" and 806.9902 "Remove, Dispose and Replace Existing Underdeck Shoring - River" shall not be measured for payment under this section.

**BASIS OF PAYMENT:** The accepted quantity of Item Code 803.9901, "Saw Cut Full Depth in Concrete Bridge Deck" will be paid for at the contract unit price per linear foot as listed in the Proposal. The price so-stated constitutes full and complete compensation for all labor, materials, and equipment, and all other incidentals required to finish the work, complete as shown on the plans and as accepted by the Engineer. Items 803.9903 "Furnish, Fabricate, Erect, Remove and Dispose Underdeck Shielding" and 806.9901 "Remove, Dispose and Replace Existing Underdeck Shoring - Land" and 806.9902 "Remove, Dispose and Replace Existing Underdeck Shoring - River" shall be paid for under their respective items as listed in the Proposal.

**803.9902**  
**CUT EXISTING DIAPHRAGMS**

**DESCRIPTION:** This work consists of providing a full depth cut through existing steel diaphragms at the locations indicated on the Plans or as directed by the Engineer, all in accordance with these Specifications and the Rhode Island Standard Specifications.

**MATERIALS:** Not applicable.

**CONSTRUCTION METHODS:** The Contractor shall determine the procedure and method to be used to assure a neat line in the finished work and to minimize the damage to the existing steel structure to remain. The barrier shall be installed on the ramp complete and accepted by the Engineer prior to commencing the cut of the diaphragms. The intention of the cut is to isolate portions of the existing steel superstructure from each other. The procedure and method to be used will be subject to the approval of the Engineer.

**METHOD OF MEASUREMENT:** The quantity of Item Code 803.9902, "Cut Existing Diaphragms" shall be measured by the number of diaphragms actually cut in accordance with the Plans and/or as directed by the Engineer.

**BASIS OF PAYMENT:** The accepted quantity of Item Code 803.9902, "Cut Existing Diaphragms" will be paid for at the contract unit price per each as listed in the Proposal. The price so-stated constitutes full and complete compensation for all labor, materials, and equipment, and all other incidentals required to finish the work, complete as shown on the plans and as accepted by the Engineer.

**JOB SPECIFIC  
CODE 803.9903**

**FURNISH, FABRICATE, AND REMOVE AND DISPOSE UNDERDECK SHIELDING**

**DESCRIPTION:** The work under this item of work shall consist of designing, furnishing, fabricating, erecting, maintaining, removal and disposal of deck underside protective shielding under the existing South Water Street On-Ramp Bridge deck to be sawcut. The limits are as shown on the Contract Drawings.

The shielding shall be installed to insure that no materials, debris, or equipment will fall to the roadway or ground below the structure. The design and the detailing of the shielding shall conform to all Federal, State, and Local requirements and regulations.

**MATERIALS:** Shielding shall consist of timber, steel and/or aluminum components. Timber joints shall be tongue-and-groove. A method of sealing all other butted joints shall be submitted for approval. Material shall conform to the requirements of the RI Standard Specifications. The shop drawings shall demonstrate that the components are held positively in place and cannot separate due to vibration or other means. The submittal shall also include as a minimum layout, member sizes, materials, and calculations stamped by a Professional Engineer currently registered in the State of Rhode Island.

**CONSTRUCTION METHODS:** The shielding must be in place prior to commencement of any deck sawcutting work. The protective shielding shall be removed following completion of the sawcutting operation, immediately preceding replacement of underdeck shoring.

The shielding shall extend under all areas over traffic of concrete deck to be sawcut at the South Water Street On-Ramp Bridge. Welding to the bridge superstructure will not be permitted.

All work shall be performed in accordance with the Maintenance and Protection of Traffic plans and these special provisions. At no time shall the temporary shield system extend below the bottom of the bottom flanges of the beams within the travel lanes or shoulders of the roadway below.

Shop drawings shall be submitted for approval, showing the details and design of the shield system. The system shall be designed for the anticipated weight of all material to be supported, but not less than a live load of 150 psf. Any materials, debris, or equipment that accidentally fall to the ground below the structure shall be immediately retrieved and disposed of properly.

**METHOD OF MEASUREMENT:** Item 803.9903 "Furnish, Fabricate, and Remove and Dispose Underdeck Shielding", as described in these Special Provisions, shall be measured for payment by the square foot of shielding actually installed, complete and accepted in place.

**BASIS OF PAYMENT:** Item 803.9903 "Furnish, Fabricate, and Remove and Dispose Underdeck Shielding" shall be paid for under the unit bid price per Square Foot as designated in the Proposal. This payment shall constitute full compensation for all designing, furnishing, fabricating, erecting, maintaining, removal and disposal, labor, tools, materials, equipment, and all other incidentals necessary to satisfactorily perform the work as described herein, in conformance with the RI Standard Specifications, complete and accepted by the Engineer.

**JS-5A**

Addendum 3

**805.9901**  
**GABION WALL**

**DESCRIPTION:** The work included in this item shall consist of furnishing, fabricating, and erecting a gabion wall as shown on the plans in accordance with the RI Standard Specifications and these Special Provisions.

**MATERIALS:**

Gabions shall be constructed from twisted woven PVC coated galvanized wire mesh baskets or approved equal filled with rock.

Mesh Opening – 3¼ inches minimum, 4½ inches maximum

Diameter of mesh core wire – 0.1063 inches

Diameter of mesh core wire plus PVC coating – 0.146 inches

Diameter of selvedge core wire – 0.1338 inches

Diameter of selvedge core wire plus PVC coating – 0.173 inches

Diameter of lacing core wire – 0.091 inches

Diameter of lacing core wire plus PVC coating – 0.127 inches

Coating of wire - finish 5 class 3 zinc coating- ASTM A641 and tested in accordance with ASTM A370-92

Coating thicknesses measured in accordance with ASTM A90:

Diameter of wire (inches)	Coating weight (oz/sf)
0.1063	0.85
0.1338	0.90
0.091	0.80

Grade of zinc coating – high grade or special high grade in accordance with ASTM B-6, Table 1

Weight of zinc coating of wire – determined in accordance with ASTM A-90

Uniformity of coating – determined in accordance with ASTM A-239

Elongation – not less than 12% in accordance with ASTM A370-92

Tensile of wire - soft temper in accordance with ASTM A641

Nominal thickness of PVC coating: 0.0216 inches not less than 0.015 inches

Specific gravity of PVC coating: 1.30 to 1.34, according to ASTM D-2287 and D-792

Tensile strength of PVC coating: not less than 2980 psi, according to ASTM D-412

Modulus of Elasticity of PVC coating: not less than 2700psi at 100% strain,  
according to ASTM D-412

Resistance to abrasion of PVC coating: weight loss less than 12%, according to ASTM D1242  
(Method B)

Brittleness Temperature of PVC coating: at least 8.3° C below the minimum temperature at  
which the

gabions will be handled or placed but not higher than  
-9.4° C, according to ASTM D-746

Hardness of PVC coating: between 50 and 60 Shore D, according to ASTM D-2240

Creeping Corrosion of PVC coating: Maximum corrosion penetration to the wire core from a  
square cut end section shall not be more than 25mm when  
the specimen has been immersed for 2000 hours in a 50%  
Solution HC1 (hydrochloric acid Be)

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Minimum strength requirements:

Tensile strength of wire mesh parallel to twist	2900lb/ft
Tensile strength of wire mesh perpendicular to twist	1400 lb/ft
Connection to selvages	1200 lb/ft
Panel to panel	1200 lb/ft
Punch strength of mesh	5300 lb/ft

Gabion fill shall be clean hard stone with pieces ranging from 4-8 inches on the greatest dimensions.

Gabions shall be fabricated in such a manner that the sides, ends, lid and diaphragms can be assembled at the construction site into rectangular baskets of the sizes specified and shown on the drawings. Gabions shall be of single unit construction: the base, lid, ends and sides shall be either woven into a single unit or edge of these members connected to the base section of the gabion in such a manner that strength and flexibility at the connecting point does not compromise the engineered structural design of the gabion. Where the length of the gabion exceeds one and one half its horizontal width, the gabion shall be divided by diaphragms of the same mesh and gauge as the body of the gabion into cells whose length does not exceed the horizontal width. The gabion shall be furnished with the necessary diaphragms secured in proper position on the base in such a manner that no additional tying is required at this juncture.

The wire mesh shall be non raveling. This is defined as the ability to resist pulling apart at any of the twists or connections forming when a single wire strand in a section of mesh is cut or broken.

The wire mesh shall have deformability sufficient to permit minimum of mesh elongation equivalent to 10% of the unstretched length of the mesh test section without reducing the gauge or the tensile strength of the individual wire strands to values less than those for similar wire, one gauge smaller in diameter.

PVC (poly vinyl chloride) coating shall be gray in color and shall have a nominal thickness of 0.0216 inches but not less than 0.015 inches in thickness. The protective PVC plastic shall be suitable to resist the deleterious effects from exposure to light, immersion in salt or polluted water and shall not show any material difference in its initial properties. The PVC compound shall also be resistant to attack from acids and abrasion.

#### **CONSTRUCTION METHODS:**

All Manufacturer's instructions shall be followed by the Contractor.

Each gabion unit shall be assembled by tying or fastening all connecting seams. The binding wire shall be tightly looped around every other mesh opening along the seams in such a manner that single and double loops are alternated. An alternative wire fastener may be used in lieu of lacing wire. The alternative wire fasteners shall be applied at approximately 4"-6" intervals on all vertical and horizontal seams. No less than 3 fasteners per one foot on any given seam.

A line of empty gabions shall be placed into position according to the Plans. Binding wire or alternative wire fasteners shall be used to secure each unit to the adjoining one along the vertical reinforced edges and the top selvages. A manufacturer approved corner closure tool shall be used to adjoin adjacent gabions to ensure a tight, neat seam and minimize gabion wired or fastened to the

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Addendum 3

latter at front and back. The lid shall be secured with a manufacturer approved closure tool to ensure proper closure with out excessive mesh deformation.

To achieve optimum alignment and finish for retaining walls, a minimum amount of stretching may be required. Stretching shall be limited to that allowed by the manufacturer.

Connecting wire shall be inserted during the filling operation as follows: The connecting wires shall be installed according to manufacturer's instructions every one foot vertical lift of gabion unit.

Gabions shall be filled with rock as specified in 'MATERIALS.' During the filling operation some manual stone placement is required to minimize voids. Care shall be taken when placing fill material to ensure that the sheathing on the PVC coated baskets is not damaged.

The cells shall be filled in stages so that local deformation may be avoided. At no time shall any cell be filled to a depth exceeding one foot higher than the adjoining cell. It is also recommended to slightly overfill the baskets by 1" to 2" to allow for settlement of the rock. Behind gabion walls, provide the backfill material simultaneously to the same level as the filled gabions.

**METHOD OF MEASUREMENT:** Item code 805.9901 "Gabion Wall" shall be measured by the cubic yard furnished, installed, complete, and accepted in accordance with the Rhode Island Standard Specifications and these Special Provisions.

**BASIS OF PAYMENT:** The accepted quantity of Item Code 805.9901, "Gabion Wall", as determined under the "METHOD OF MEASUREMENT" section above shall be paid for at the contract unit price bid per cubic yard, as designated in the PROPOSAL.

These payments shall constitute full compensation for all labor, equipment, materials, tools, accessories, and incidentals necessary to complete the work in accordance with this Special Provision and as indicated on the Contract Drawings.

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Addendum 3

**806.9901**

**REMOVE, DISPOSE, AND REPLACE EXISTING UNDERDECK SHORING – LAND**

**806.9902**

**REMOVE, DISPOSE, AND REPLACE EXISTING UNDERDECK SHORING - RIVER**

**DESCRIPTION:** Work under these items shall consist of the removal and disposal of existing timber underdeck shoring, and furnishing, fabricating and erecting new underdeck shoring at locations as indicated in the Contract Drawings and in accordance with these specifications and the Contract Drawings within the designated work zone areas. As it is to supplement the existing concrete deck system, and is to remain in place until the entire structure is demolished as part of the I-195/I-95 interchange improvement project, the underdeck shoring is considered a permanent installation.

**MATERIALS:** All materials shall be as shown on the Plans and as indicated in these Specifications:

**Sawn Lumber and Timber** shall be stress-rated Southern Yellow Pine with a stress rating as indicated on the Plans, conforming to the requirements of Article M.11.01 of the Rhode Island Standard Specifications. The stress rating shall be identified by the grade mark of a recognized association or independent inspection agency using the specific grading requirements of an association recognized as covering the species used. The association or independent inspection agency shall be certified by the Board of Review, American Lumber Standards Committee, to grade the species used. All timber shall be pressure treated.

**Plywood** shall be APA (American Plywood Association) Rated Sheathing Exterior, Grade Stress Level S-1, cross-laminated wood veneer panel conforming to the requirements of U.S. Product Standard PS-1 glued only with waterproof adhesives. All plywood shall be pressure treated.

**Preservatives and Pressure Treatment** of timber shall be in accordance with AASHTO M 133 and AWWA (American Wood Preservers' Association) Standards C1 and C14, with ammoniacal copper quat (ACQ) conforming to AWWA Standard P5-05 to a minimum net retention of 0.40 lb/ft<sup>3</sup>. All members shall be dried to a moisture content of 19% or less after treatment.

Pressure treatment of plywood shall be in accordance with AWWA Standards C1 and C9, with water-borne preservatives to a minimum net retention of 0.40 lb/ft<sup>3</sup>. Plywood shall be dried to a moisture content of 18% or less after treatment.

**Hardware** and any metallic fasteners used shall be in accordance with Article M.05.04.13, Hardware for Timber Construction, of the Rhode Island Standard Specifications.

**CONSTRUCTION METHODS:**

**Submittals:** The Contractor does not have to submit shop drawings for the shoring.

Existing dimensions, material types, and member sizes, were obtained from the original Contract Drawings for this bridge. The Contractor shall field verify all dimensions, and layouts which may effect his fabrication work.

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The Contractor shall submit a Timber Preservative Inspection Report from an independent inspection agency to the Engineer for approval. The report must demonstrate that the offered products complying with applicable AWPAs Standards. In lieu of the test report as evidence of compliance with the applicable AWPAs treatment standards, the AWPB Quality Mark "AWPB LP22", or equivalent quality mark, on each piece will be accepted.

**Removal and Disposal:**

The Contractor shall remove the existing shoring in a manner that will contain loose concrete deck debris. Such removal methods shall insure that damage to the adjacent structure, as well as to personnel and property in the vicinity of the work, does not occur. These methods shall also account for the removal of material which presents a danger to personnel performing the work or property adjacent to the work, in immanent danger of falling, but still suspended from the deck, as well as any protruding concrete that would interfere with the installation of the new shoring. Removal methods shall be approved by the Engineer prior to the commencement of work. Under no circumstances shall debris be permitted to free-fall to the ground below, unless specifically allowed by the Engineer.

The Contractor shall notify the Engineer a minimum of two weeks (14 calendar days) in advance of the removal of any underdeck shoring. The Contractor shall make provisions to allow the Engineer access to exposed areas of deck following shoring removal for a detailed inspection. The Contractor shall provide the method for the Engineer to access the deck to be able to perform the inspection. The requirements of the detailed inspection are such that the Engineer must be within arms reach of the underside of deck, therefore access shall be provided to meet this requirement. A ladder will not be considered adequate to allow for the inspection to be performed in a timely manner. Underdeck shielding or shoring shall not be installed or replaced prior to the performance of the deck inspection by the Engineer.

Removal and disposal of shoring and concrete debris shall be done in a legal manner, in conformance with all Federal and State regulations. All costs associated with such disposal shall be included in this item of work.

**Replacement, Fabrication and Erection:**

The Contractor shall have material and equipment at the shoring removal location such that erection of new underdeck shielding will be completed within each specified work zone, prior to the resumption of traffic. The Contractor shall not remove more shoring over traffic than will be replaced by shielding in accordance with Item 803.9903 "Furnish, Fabricate, and Remove and Dispose Underdeck Shielding" by the end of each work day, within the scheduled work period, for each work zone. Immediately following the sawcutting operation, the underdeck shielding shall be removed and disposed in accordance with Item 803.9903 "Furnish, Fabricate, and Remove and Dispose Underdeck Shielding" and replaced with underdeck shoring. The Contractor shall not remove more shielding over traffic than will be replaced by underdeck shoring by the end of each work day, within the scheduled work period, for each work zone.

The Contractor shall make himself familiar with the configuration of the existing shoring, as well as its methods of connecting to the existing structure, prior to commencing work. This familiarization is required in order to establish acceptable and expedient methods of removal.

All timber materials shall be handled with reasonable care to avoid breaking the material or the preservative treatment envelope. Handling using cant dogs, hooks, or penetrating the surface with

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tools shall not be permitted. All treated timber shall be handled with ropes or fabric slings. Timber and lumber material shall be neatly stacked in dry, level areas that are free of weeds, rubbish, and combustible materials. Timber and lumber material shall also be stacked in a manner that will prevent long timbers from sagging or become crooked. The bottom layer of material shall be at least 8 inches above ground level. The stacked timber and lumber shall be protected from weather.

The Contractor shall maintain and protect the existing under-bridge lighting system, as applicable, during all construction operations. Any damage done by the Contractor shall be repaired by the Contractor at no additional cost to the State.

The Contractor's attention is directed to the fact that the concrete deck at the shoring locations may be in poor condition. Care shall be taken during the erection of the shoring systems to prevent debris, materials, or equipment from falling to the ground below and to protect personnel, the public, the existing structure, and adjacent properties from injury or damage. Any damages resulting from the Contractor's operations shall be repaired to the satisfaction of the Engineer and the affected parties, at the expense of the Contractor.

All work shall be carried out within the delineated work zones, as specified on the Plans. The Contractor shall have the necessary equipment available at the site to carry out the work within the scheduled work zone areas, without delaying other construction operations.

**METHOD OF MEASUREMENT:** The quantity of Item Codes 806.9901 "Remove, Dispose, and Replace Existing Underdeck Shoring - Land" and 806.9902 "Remove, Dispose, and Replace Existing Underdeck Shoring - River" will be measured for payment per square foot measured in plan, complete, in place and accepted in accordance with the Rhode Island Standard Specifications, these Special Provisions, as directed by the Engineer, and as indicated on the Contract Drawings. The area, measured once, shall include both R&D and replacement with new underdeck shoring.

**BASIS OF PAYMENT:** Payment for the quantity determined under "METHOD OF MEASUREMENT" will be included in the unit bid items, as designated in the Proposal. This payment shall constitute full compensation for all labor, tools, equipment, and all other incidentals necessary to properly complete the work as described herein and as shown on the Contract Drawings.

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Addendum 3

**824.9901**  
**FURNISH, FABRICATE, AND ERECT SUPPLEMENTAL GIRDER SHORING –**  
**TYPE A – LAND**

**824.9906**  
**FURNISH, FABRICATE, AND ERECT SUPPLEMENTAL GIRDER SHORING –**  
**TYPE C**

**DESCRIPTION:** The work to be performed under this item shall consist of furnishing all labor, equipment, and materials required to furnish, fabricate and erect Supplemental Girder Shoring as indicated on the Contract Drawings and as specified herein. All materials and work for Supplemental Girder Shoring and Bracing shall be in accordance with the Rhode Island Standard Specifications, as supplemented by these Special Provisions.

The work shall include, but is not limited to:

Field verification of existing elevations and dimensions required for fabrication of structural items.

Excavation, backfill, and compaction required to erect shoring systems and restore site for Type A Shoring. Excavation, backfill and compaction shall be paid for separately for Type C Shoring.

Preparation of existing structures for shoring installation including drilling into concrete pier footings and concrete and/or granite pier caps for installation of anchor bolts and threaded rods, and cleaning of girder surfaces as indicated.

Removal and disposal of existing timber sheeting if required. Removal and disposal of scupper piping which interferes with the installation of shoring.

Fabrication erection, and installation of Supplemental Girder Shoring systems including structural steel shapes, plates, tubing, connections, hardware, bearing assemblies, bearing blocking, anchorages, grout and other items as indicated on the Drawings and as specified herein.

Initiation of bearing upon the Supplemental Girder Shoring, and partial load transfer, through the installation of steel shims and wedges.

**MATERIALS:**

Structural Steel: Rolled steel shapes, bars, shims, wedges, and plates shall conform to the requirements of AASHTO M 270 grade 36. Structural tubing shall conform to the requirements of ASTM A 500, grade B.

Hardware: Provide bolts, threaded rods, nuts, and hardened washers of the size and type indicated.

Threaded rods and anchor bolts shall conform to the requirements of ASTM A 36 or ASTM A 307. Anchor bolts and threaded rods shall be galvanized and of the size indicated on the Contract Drawings.

All nuts shall be AASHTO M 291, type 2H or DH. Washers shall meet the requirements of AASHTO Standard M 293.

Welding details and procedures shall conform to the latest edition of ANSI/AASHTO/AWS Bridge Welding Code, including the latest revisions.

Reinforced Elastomeric Bearings and Unreinforced Elastomeric Bearings shall be in accordance with Section 828 of the Rhode Island Standard Specifications and the Contract Drawings.

Pervious Fill shall conform to the requirements of Article M.01.03 of the Rhode Island Standard Specifications.

Non-Shrink Grout shall be suitable for outdoor use, and shall have a minimum compression strength of 8,000 psi after 28 days as determined by testing under ASTM C 109. The grout mix shall exhibit no shrinkage on setting but may exhibit slight expansion of no more than 3% when tested by methods conforming the requirements of ASTM C 827. All grout materials shall be on the RIDOT Approved List of Materials.

Chemical Anchors shall be from the RIDOT Approved List of Materials. A certificate of compliance in accordance with Section 106.4 of the Rhode Island Standard Specifications, and the Supplemental Provisions shall be furnished by the Contractor to the Engineer for approval.

Sawn Lumber and Timber shall be stress-rated Southern Yellow Pine with a stress rating as indicated on the Plans, conforming to the requirements of Article M.11.01 of the Rhode Island Standard Specifications. The stress rating shall be identified by the grade mark of a recognized association or independent inspection agency using the specific grading requirements of an association recognized as covering the species used. The association or independent inspection agency shall be certified by the Board of Review, American Lumber Standards Committee, to grade the species used.

Additional or Incidental Materials not listed shall be on the RIDOT Approved List of Materials. A certificate of compliance in accordance with Section 106.4 of the Rhode Island Standard Specifications, and the Supplemental Provisions shall be furnished by the manufacturer of each material to the Engineer for approval.

#### **CONSTRUCTION METHODS:**

Shop drawings for the structural steel shapes, plates, and tubing shall not be required. Other submittals required by the Standard Specifications for materials, weld qualifications, etc. shall be submitted as usual for all items.

Existing elevations, dimensions, material types, and member sizes, were obtained from the original Contract Drawings for this bridge. The Contractor shall field verify all elevations, dimensions, and layouts which may effect his fabrication work.

The Contractor is alerted that the existing paint is lead-based. Any removal and disposal of paint for the operations described herein shall be performed in a legal manner, and in accordance with all State and Federal health and environmental regulations. The remaining paint system not directly affected by the work shall not be disturbed. All containment and disposal operations for paint removal necessary to perform this item of work will be included for payment in this item of work.

Laminated rust on the bottom flange of girders at the shoring locations shall be removed and the steel surface shall be prepared in accordance with SSPC-SP11 (power tool cleaning to bare metal). The steel surface preparation shall be performed only in the general area of contact with the shoring. The length of surface preparation on the bottom flange shall not exceed 30 inches.

Structural steel elements shall be shop fabricated in the largest practical sections and delivered to the site complete and ready for erection. Holes for fasteners shall be shop drilled or punched prior to shop coating. Field drilling of holes for fasteners will be permitted only with the approval of the Engineer. Torch burned holes will not be permitted. Torch cutting of members is not permitted.

A minimum number of field welds are to be used. Field welding shall be limited to the areas indicated, or as approved by the Engineer.

For all welding, visual inspection and magnetic particle testing, (MT), shall be performed in accordance with the applicable sections of the Rhode Island Standard Specifications.

The surfaces of concrete pier footings to receive the supplemental shoring system shall be cleaned of all loose material to ensure adequate bond of the grout pad to the existing concrete. Prior to drilling into existing concrete members, the Contractor shall field verify the location of existing reinforcing steel by a nondestructive method, such as using a pachometer. The existing rebar shall be avoided during drilling.

During steel erection, the Contractor shall insure that base plates are level, and columns are set plumb by utilizing leveling nuts on column anchor bolts. Pack the gap between the base plate and the footing with non-shrink grout after leveling and securing the column to assure uniform bearing.

Utilize temporary support or attachments, such as erection bolts, during initial setting and alignment of shoring columns and bracing.

Final tightening of anchorage to footings shall be completed after installation of bearing assemblies and the transfer of load to the supplemental shoring.

The Contractor shall note that the erection of the shoring system shall be performed under active traffic conditions. Care shall be taken during erection to prevent debris, materials, or equipment from falling to the ground or below and to protect personnel, the public, and adjacent properties from injury or damage. Any damages resulting from the Contractor's operations shall be repaired to the satisfaction of the Engineer and the affected parties, at the expense of the Contractor.

Care must be taken to minimize disturbance to the existing site conditions. All temporary materials and equipment shall be removed upon completion of the work, and the area restored to its original condition to the approval of the Engineer.

Bearing of the girders on the shoring columns, and the transfer of partial load from the superstructure into the shoring columns may be achieved by utilizing the following procedure:

Provide, insert, align, drive and secure steel shims and wedges of the sizes and types

indicated.

Provide and install shim plates of the thicknesses required to assure that the wedges can be installed in a snug tight condition, and can be driven to acceptable load transfer. All plates and wedges are to be secured laterally by the keeper angles. Therefore the total thickness of the shims used will be limited by the height of the angles.

Load transfer shall be considered acceptable when:

- there is firm, uniform bearing between all shims and they are snug in place.
- keeper angles can be installed and welded in place.
- there is firm, uniform bearing between the bottom of the girder flange and the bearing pad and the pad is snug in place such that it can not be moved without the use of power tools.

At the completion of load transfer, the wedges and shims shall be tack welded and keeper angles and blocking shall be installed tight against the faces of the wedges and shims, and welded in place. During this operation, the girders shall not be moved vertically more than 1/16 inch.

**METHOD OF MEASUREMENT:**

The quantity of Item Code 824.9901, "Furnish, Fabricate, and Erect Supplemental Girder Shoring – Type A - Land"; shall be measured for payment per EACH individual girder location (each shore post) where Supplemental Girder Shoring is installed, complete, and accepted by the Engineer.

The quantity of Item Code 824.9906, "Furnish, Fabricate, and Erect Supplemental Girder Shoring – Type C"; shall be measured for payment per EACH individual girder location (each shore post) where Supplemental Girder Shoring is installed, complete, and accepted by the Engineer.

**BASIS OF PAYMENT:**

The quantity for Item Code 824.9901, "Furnish, Fabricate and Erect Supplemental Girder Shoring – Type A - Land" as determined under the "METHOD OF MEASUREMENT" section above shall be paid for at the contract unit price bid per each, as designated in the PROPOSAL.

The quantity for Item Code 824.9906, "Furnish, Fabricate and Erect Supplemental Girder Shoring – Type C" as determined under the "METHOD OF MEASUREMENT" section above shall be paid for at the contract unit price bid per each, as designated in the PROPOSAL.

These payments shall constitute full compensation for all materials, equipment, tools, labor, transportation, field engineering, related design services, and other incidentals necessary for complete installation of Supplemental Girder Shoring and Bracing, as indicated on the Contract Drawings, as described in 'DESCRIPTION' above, and in accordance with the requirements set forth in the Rhode Island Standard Specifications and these Special Provisions.

Note that the payments described above shall include compensation for all excavation and compacted backfill up to the existing grade for Type A Shoring. No additional payments will be made for alterations to structures, or for any repairs to existing structures, which are required as a result of the Contractor's operation.

# Proposal Items

7/26/2006  
3:33:04PM

Project Name - Improvements to Interstate Route 195 Interim Shoring South Water Street On Ramp Bridge No. 524  
R.I. Contract No. - 2006-CH-072  
FAP Nos: BRO-1950(104)

Note: The UNIT PRICE for each Item must be written in words and figures.

No.	Item Code	Quantity	Description	Unit	Unit Bid Price	Amount(PxQ)
					\$0.00	\$0.00
001	201.0401	150.00	REMOVE AND DISPOSE GRANITE CURB			
				LF		
002	201.0409	50.00	REMOVE AND DISPOSE FLEXIBLE PAVEMENT			
				SY		
003	201.0450	22.00	REMOVE AND STOCKPILE ON SITE GRANITE CURB			
				LF		
004	201.0454		Item Deleted			
				LF		
005	203.0100	240.00	STRUCTURAL EXCAVATION EARTH			
				CY		
006	203.0650	16.00	CRUSHED STONE FILL UNDER STRUCTURES			
				CY		
007	203.9901	1,499.00	FILTER FABRIC UNDER RIPRAP			
				SF		

# Proposal Items

7/26/2006  
3:33:04PM

Project Name - Improvements to Interstate Route 195 Interim Shoring South Water Street On Ramp Bridge No. 524  
R.I. Contract No. - 2006-CH-072  
FAP Nos: BRO-1950(104)

Note: The UNIT PRICE for each Item must be written in words and figures.

No.	Item Code	Quantity	Description	Unit	Unit Bid Price \$0.00	Amount(PxQ) \$0.00
008	206.0208	334.00	REMOVAL OF BALED HAY EROSION CHECKS			
AT						
				LF		
009	206.0230	334.00	BALED HAY EROSION CHECK AND SILT FENCE COMBINED STANDARD 9.3.0			
AT						
				LF		
010	212.2000	1.00	CLEANING AND MAINTENANCE OF EROSION CONTROLS			
AT						
				LS		
<b>011</b>	<b>302.0100</b>	<b>16.00</b>	<b>GRAVEL BORROW SUBBASE COURSE</b>			
AT						
				<b>CY</b>		
012	401.0200	7.00	BITUMINOUS SURFACE COURSE TYPE I-1			
AT						
				TON		
013	403.0300	50.00	ASPHALT EMULSION TACK COAT			
AT						
				SY		
014	601.0300	14.00	CLASS A PORTLAND CEMENT CONCRETE			
AT						
				CY		

# Proposal Items

7/26/2006  
3:33:04PM

Project Name - Improvements to Interstate Route 195 Interim Shoring South Water Street On Ramp Bridge No. 524  
R.I. Contract No. - 2006-CH-072  
FAP Nos: BRO-1950(104)

Note: The UNIT PRICE for each Item must be written in words and figures.

No.	Item Code	Quantity	Description	Unit	Unit Bid Price \$0.00	Amount(PxQ) \$0.00
015	803.9901	616.00	SAW CUT FULL DEPTH IN CONCRETE BRIDGE DECK	LF		
AT						
				LF		
016	803.9902	53.00	CUT EXISTING DIAPHRAGMS			
AT						
				EACH		
017	805.9901	15.00	GABION WALL			
AT						
				CY		
018	808.0501	66.00	CONCRETE SUBSTRUCTURE CLASS XX 3/4" FOOTINGS			
AT						
				CY		
<b>019</b>	<b>810.0200</b>	<b>6,450.00</b>	<b>STANDARD BARS GRADE 60</b>			
AT						
				<b>LBS</b>		
020	824.9901	28.00	FURNISH, FABRICATE AND ERECT SUPPLEMENTAL GIRDER SHORING - TYPE A - LAND			
AT						
				EACH		
021	824.9906	12.00	FURNISH, FABRICATE AND ERECT SUPPLEMENTAL GIRDER SHORING - TYPE C			
AT						
				EACH		

# Proposal Items

7/26/2006  
3:33:04PM

Project Name - Improvements to Interstate Route 195 Interim Shoring South Water Street On Ramp Bridge No. 524  
R.I. Contract No. - 2006-CH-072  
FAP Nos: BRO-1950(104)

Note: The UNIT PRICE for each Item must be written in words and figures.

No.	Item Code	Quantity	Description	Unit	Unit Bid Price \$0.00	Amount(PxQ) \$0.00
022	901.0901		Item Deleted			
AT						
				LF		
023	906.0110	30.00	GRANITE CURB, QUARRY SPLIT STRAIGHT, STANDARD 7.3.0			
AT						
				LF		
024	906.0720	22.00	RESET STOCKPILE CURB STRAIGHT CIRCULAR CORNER RETURNS			
AT						
				LF		
025	907.0200	1.00	CALCIUM CHLORIDE FOR DUST CONTROL (PROJECT WIDE)			
AT						
				TON		
026	914.5010	1,040.00	FLAGPERSONS			
AT						
				MHRS		
027	914.5020	520.00	FLAGPERSONS - OVERTIME			
AT						
				MHRS		
028	916.0600	8.00	SHOCK ABSORBING BARRIER MODULES			
AT						
				GRP		

# Proposal Items

7/26/2006  
3:33:04PM

Project Name - Improvements to Interstate Route 195 Interim Shoring South Water Street On Ramp Bridge No. 524  
R.I. Contract No. - 2006-CH-072  
FAP Nos: BRO-1950(104)

Note: The UNIT PRICE for each Item must be written in words and figures.

No.	Item Code	Quantity	Description	Unit	Unit Bid Price \$0.00	Amount(PxQ) \$0.00
029	919.0101	6.00	TEST PITS			
				EACH		
030	920.0080	65.00	PLACED STONE RIPRAP R-1, R-2 STANDARD 8.3.0			
				CY		
031	922.0100	326.00	TEMPORARY CONSTRUCTION SIGNS STANDARD 29.1.0 AND 27.1.1			
				SF		
032	923.0105	6,370.00	DRUM BARRICADE STANDARD 26.2.0			
				BDAY		
033	923.9901	10.00	DRUM BARRICADE STD. 26.2.0 LEFT IN PLACE			
				EACH		
034	924.0113	42.00	ADVANCE WARNING ARROW PANEL			
				PDAY		
035	926.0130	590.00	PRECAST MEDIAN BARRIER FOR TEMPORARY TRAFFIC CONTROL STANDARD 40.5.0			
				LF		

# Proposal Items

7/26/2006  
3:33:04PM

Project Name - Improvements to Interstate Route 195 Interim Shoring South Water Street On Ramp Bridge No. 524  
R.I. Contract No. - 2006-CH-072  
FAP Nos: BRO-1950(104)

Note: The UNIT PRICE for each Item must be written in words and figures.

No.	Item Code	Quantity	Description	Unit	Unit Bid Price \$0.00	Amount(PxQ) \$0.00
043	T20.2014	670.00	4 INCH EPOXY RESIN PAVEMENT MARKINGS YELLOW			
				LF		
044	T20.2112		Item Deleted			
				HLF		
045	201.0415	300.00	REMOVE AND DISPOSE GUARDRAIL AND POST ALL TYPES			
				LF		
046	301.0300	53.00	CRUSHED STONE OR CRUSHED GRAVEL BASE MODIFIED			
				CY		
047	803.9903	1,325.00	FURNISH, FABRICATE, AND REMOVE AND DISPOSE UNDERDECK SHIELDING BR. 524 - SO. WATER ST. ON RAMP BRIDGE			
				SF		
048	806.9901	1,050.00	REMOVE, DISPOSE, AND REPLACE EXISTING UNDERDECK SHORING - LAND BR. 524 - SO. WATER ST. ON RAMP BRIDGE			
				SF		
049	806.9902	125.00	REMOVE, DISPOSE, AND REPLACE EXISTING UNDERDECK SHORING - RIVER BR. 524 - SO. WATER ST. ON RAMP BRIDGE			
				SF		

# Proposal Items

7/26/2006  
3:33:04PM

Project Name - Improvements to Interstate Route 195 Interim Shoring South Water Street On Ramp Bridge No. 524  
R.I. Contract No. - 2006-CH-072  
FAP Nos: BRO-1950(104)

Note: The UNIT PRICE for each Item must be written in words and figures.

No.	Item Code	Quantity	Description	Unit	Unit Bid Price \$0.00	Amount(PxQ) \$0.00
050	901.0191	1.00	GUARDRAIL STEEL BEAM ANCHORAGE TRAILING END SECTION STANDARD 34.3.4			
				EACH		
051	901.0193	300.00	GUARDRAIL STEEL BEAM SINGLE FACE STANDARD 34.2.0			
				LF		
S052	901.9901	1.00	ET-PLUS GUARDRAIL END TERMINAL			
				EACH		
053	909.3020	140.00	PRECAST MEDIAN BARRIER SINGLE-FACED STANDARD 40.2.0			
				LF		
054	923.0200	120.00	FLUORESCENT TRAFFIC CONES STANDARD 26.1.0			
				EACH		
055	926.9901	860.00	PRECAST MEDIAN BARRIER FOR TEMPORARY TRAFFIC CONTROL STANDARD 40.5.0 LEFT IN PLACE			
				LF		
056	T20.2012	172.00	12 INCH EPOXY RESIN PAVEMENT MARKINGS WHITE			
				LF		

FINAL TOTAL IS:

Revised: 2/19/2002

Total or gross sum of bid for Rhode Island Contract Number: 2006-CH-072

Federal-Aid Project Number(s): BRO-1950(104)

WRITTEN IN WORDS:

The undersigned bidder declares that this Proposal is made without connection with any other person or persons making proposals for the same work, and is in all respects fair and without collusion or fraud. The undersigned bidder submits herewith, a proposal guarantee in the form of a bid bond in favor of the State of Rhode Island in the amount of 5% of the total or gross sum of the bid and agrees and consents that the proposal guarantee shall be forfeited to the State as liquidated damages if the required contract agreement and contract bond are not executed within ten(10) days of the notice of award. All surety companies must be listed with The Department of the Treasury, Fiscal Services, Circular 570, (Latest Revision published by The Federal Register). The State reserves the right to retain the surety of all bidders until the successful bidder enters into the Contract or until such time as the award or cancellation of the Contract is announced at which point Sureties will be returned to all bidders by the State of Rhode Island, Office of Purchases. **The undersigned bidder further agrees, if awarded the contract on this proposal to begin work within ten (10) calender days after the date of execution of the contract unless otherwise specified under special provisions or permitted by the Engineer and further agrees to complete the work on or before the dates outlined in the Contract Documents.**

**COMPLETION DATE(S)**

<b>DESCRIPTION</b>	<b>DATE</b>
Substantial Completion	January 27, 2007
Final Completion	May 12, 2007

**THE BIDDER ACKNOWLEDGES RECEIPT OF THE FOLLOWING :**

<b>ADDENDA</b>	<b>DATE POSTED</b>	<b>DOCUMENT(S)</b>	<b>PAGE</b>
NO.1	July 11, 2006	1. Status Certification for: Debarment, Eligibility, Indictments, Convictions	1
NO.2	July 26, 2006	2. Anti-Collusion Certificate	2
NO.3	July 31, 2006	3. DBE Affirmative Action Certification	3 - 6
		4. Disclosure of Lobbying Activities	7

**Rhode Island Contract Number: 2006-CH-072**

**Federal-Aid Project Number(s): BRO-1950(104)**

Whoever, being an officer, agent, or employee of the United States, or of any State, or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the costs thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction of any highway or related project submitted for approval to the Secretary of Transportation; or Whoever, knowingly makes any false statement, false representation, false report, or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or Whoever, knowingly makes any false statement or false representation as to a material fact in any statement, certificate, or report submitted pursuant to the provisions of the Federal-aid Road Act approved July 11, 1916 (39 Stat. 355), as amended and supplemented, Shall be fined not more than \$10,000 or imprisoned not more than five years, or both. By signing here the signee agrees that the disk submitted is the same as the paper submitted and that any discrepancies may result in disqualification of the bid.

BEING EITHER A (INDIVIDUAL, PARTNERSHIP,  
(OR CORPORATION INCORPORATED )  
(UNDER THE LAWS OF ANY STATE )  
(IN THE UNITED STATES OF AMERICA)

\_\_\_\_\_  
**Contractor**

COMPOSED OF OFFICERS, PARTNERS  
OR OWNER, AS FOLLOWS.

\_\_\_\_\_  
**President**

\_\_\_\_\_  
**Vice - President**

\_\_\_\_\_  
**Secretary**

\_\_\_\_\_  
**Treasurer**

**Address**  
\_\_\_\_\_  
\_\_\_\_\_

**CERTIFICATION SUMMARY: I hereby certify that I have read all of the above requirements and understand that it affects the acceptability of my bid(s).**

\_\_\_\_\_  
Name of Signatore - Title

\_\_\_\_\_  
Date

## Table of Contents - Distribution of Quantities

Project Name - Improvements to Interstate Route 195 Interim Shoring  
South Water Street On Ramp Bridge No. 524  
R.I. Contract No. - 2006-CH-072  
FAP Nos: BRO-1950(104)

ItemCode	Description	Page
201.0401	<b>REMOVE AND DISPOSE GRANITE CURB</b>	1
201.0409	REMOVE AND DISPOSE FLEXIBLE PAVEMENT	1
201.0450	<b>REMOVE AND STOCKPILE ON SITE GRANITE CURB</b>	1
201.0454	<b>Item Deleted</b>	1
203.0100	STRUCTURAL EXCAVATION EARTH	1
203.0650	CRUSHED STONE FILL UNDER STRUCTURES	2
203.9901	FILTER FABRIC UNDER RIPRAP	2
206.0208	REMOVAL OF BALED HAY EROSION CHECKS	2
206.0230	BALED HAY EROSION CHECK AND SILT FENCE COMBINED STANDARD 9.3.0	2
212.2000	CLEANING AND MAINTENANCE OF EROSION CONTROLS	3
302.0100	<b>GRAVEL BORROW SUBBASE COURSE</b>	3
401.0200	BITUMINOUS SURFACE COURSE TYPEI-1	3
403.0300	ASPHALT EMULSION TACK COAT	3
601.0300	CLASS A PORTLAND CEMENT CONCRETE	4
803.9901	SAW CUT FULL DEPTH IN CONCRETEBRIDGE DECK	4
803.9902	CUT EXISTING DIAPHRAGMS	4
805.9901	GABION WALL	5
808.0501	CONCRETE SUBSTRUCTURE CLASS XX3/4" FOOTINGS	5
810.0200	<b>STANDARD BARS GRADE 60</b>	5
824.9901	FURNISH, FABRICATE AND ERECT SUPPLEMENTAL GIRDER SHORING - TYPE A - LAND	6
824.9906	FURNISH, FABRICATE AND ERECT SUPPLEMENTAL GIRDER SHORING - TYPE C	6
901.0901	<b>Item Deleted</b>	6
906.0110	GRANITE CURB, QUARRY SPLIT STRAIGHT, STANDARD 7.3.0	6
906.0720	<b>RESET STOCKPILE CURB STRAIGHT CIRCULAR CORNER RETURNS</b>	7
907.0200	CALCIUM CHLORIDE FOR DUST CONTROL (PROJECT WIDE)	7
914.5010	FLAGPERSONS	7
914.5020	FLAGPERSONS - OVERTIME	7
916.0600	<b>SHOCK ABSORBING BARRIER MODULES</b>	8
919.0101	TEST PITS	8
920.0080	<b>PLACED STONE RIPRAP R-1, R-2 STANDARD 8.3.0</b>	8
922.0100	<b>TEMPORARY CONSTRUCTION SIGNS STANDARD 29.1.0 AND 27.1.1</b>	8
923.0105	DRUM BARRICADE STANDARD 26.2.0	9
923.9901	DRUM BARRICADE STD. 26.2.0 LEFT IN PLACE	9
924.0113	<b>ADVANCE WARNING ARROW PANEL</b>	9
926.0130	<b>PRECAST MEDIAN BARRIER FOR TEMPORARY TRAFFIC CONTROL STANDARD 40.5.0</b>	9
926.0140	REFLECTIVE DELINEATORS FOR TEMPORARY CONCRETE BARRIERS	10
929.0300	CHAMP MANAGEMENT SYSTEM	10
932.0200	FULL-DEPTH SAWCUT OF BITUMINOUS PAVEMENT	10
936.0110	MOBILIZATION	11
937.0200	MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION	11
943.0100	TRAINEE MAN-HOURS	11
T20.2004	4 INCH EPOXY RESIN PAVEMENT MARKINGS WHITE	11
T20.2014	4 INCH EPOXY RESIN PAVEMENT MARKINGS YELLOW	11
T20.2112	<b>Item Deleted</b>	12
201.0415	<b>REMOVE AND DISPOSE GUARDRAIL AND POST ALL TYPES</b>	12
301.0300	<b>CRUSHED STONE OR CRUSHED GRAVEL BASE MODIFIED</b>	12
803.9903	<b>FURNISH, FABRICATE, AND REMOVEAND DISPOSE UNDERDECK SHIELDING BR. 524 -</b>	12
	<b>SO. WATER ST. ON RAMP BRIDGE</b>	
806.9901	<b>REMOVE, DISPOSE, AND REPLACE EXISTING UNDERDECK SHORING - LAND BR. 524 -</b>	13
	<b>SO. WATER ST. ON RAMP BRIDGE</b>	
806.9902	<b>REMOVE, DISPOSE, AND REPLACE EXISTING UNDERDECK SHORING - RIVER BR. 524</b>	13
	<b>- SO. WATER ST. ON RAMP BRIDGE</b>	
901.0191	<b>GUARDRAIL STEEL BEAM ANCHORAGETRAILING END SECTION STANDARD 34.3.4</b>	13
901.0193	<b>GUARDRAIL STEEL BEAM SINGLE FACE STANDARD 34.2.0</b>	13
901.9901	<b>ET-PLUS GUARDRAIL END TERMINAL</b>	14

**Table of Contents - Distribution of  
Quantities**

Project Name - Improvements to Interstate Route 195 Interim Shoring  
South Water Street On Ramp Bridge No. 524  
R.I. Contract No. - 2006-CH-072  
FAP Nos: BRO-1950(104)

<u>ItemCode</u>	<u>Description</u>	<u>Page</u>
909.3020	PRECAST MEDIAN BARRIER SINGLE-FACED STANDARD 40.2.0	14
923.0200	FLUORESCENT TRAFFIC CONES STANDARD 26.1.0	14
926.9901	PRECAST MEDIAN BARRIER FOR TEMPORARY TRAFFIC CONTROL STANDARD 40.5.0 LEFT IN PLACE	14
T20.2012	12 INCH EPOXY RESIN PAVEMENT MARKINGS WHITE	15

**Distribution of Quantities**

Project Name - Improvements to Interstate Route 195 Interim Shoring South Water Street On  
 Ramp Bridge No. 524  
 R.I. Contract No. - 2006-CH-072  
 FAP Nos: BRO-1950(104)

<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>
001	201.0401	<b>REMOVE AND DISPOSE GRANITE CURB</b>	<b>LF</b>		
		I-195 SOUTH WATER STREET			
		RAMP CR-2/RAMP SR-7 @		120.00	0014
		PIER D12			
		UNDER RAMP CR-1 (FROM		30.00	0014
		ITEM CODE 906.9901)			
				<b>Item 201.0401 Total:</b>	<b>150.00</b>
002	201.0409	<b>REMOVE AND DISPOSE FLEXIBLE PAVEMENT</b>	<b>SY</b>		
		I-195 SOUTH WATER STREET			0014
		(UNDER RAMP CR-1)			
		PIER D11		12.00	0014
		PIER D12		38.00	0014
				<b>Item 201.0409 Total:</b>	<b>50.00</b>
003	201.0450	<b>REMOVE AND STOCKPILE ON SITE GRANITE CURB</b>	<b>LF</b>		
		I-195 SOUTH WATER STREET			
		(UNDER RAMP CR-1)			
		PIER D11		22.00	0014
				<b>Item 201.0450 Total:</b>	<b>22.00</b>
004	201.0454	<Item deleted>			
				<b>Item 201.0454 &lt;Item deleted&gt;</b>	
005	203.0100	<b>STRUCTURAL EXCAVATION EARTH</b>	<b>CY</b>		

**Distribution of Quantities**

Project Name - Improvements to Interstate Route 195 Interim Shoring South Water Street On  
 Ramp Bridge No. 524  
 R.I. Contract No. - 2006-CH-072  
 FAP Nos: BRO-1950(104)

Item No.	Item Code	Description	UM	Qty.	Pay Code
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**009 206.0230 continued SILT FENCE COMBINED STANDARD  
 9.3.0**

I-195 SOUTH WATER STREET  
 (UNDER RAMP CR-1)

PIER D3	24.00	0014
PIER D5	95.00	0014
PIER D7	65.00	0014
PIER D8, D9 & D10	150.00	0014

**Item 206.0230 Total: 334.00**

**010 212.2000 CLEANING AND MAINTENANCE OF EROSION CONTROLS LS**

I-195 SOUTH WATER STREET  
 AS REQUIRED

1.00 0014

**Item 212.2000 Total: 1.00**

**011 302.0100 GRAVEL BORROW SUBBASE COURSE CY**

I-195 SOUTH WATER STREET  
 FROM ITEM CODE 201.0409  
 FROM ITEM CODE 909.3020

8.00 0014

8.00 0014

**Item 302.0100 Total: 16.00**

**012 401.0200 BITUMINOUS SURFACE COURSE TYPE I-1 TON**

I-195 SOUTH WATER STREET  
 (UNDER RAMP CR-1)

0014

FROM ITEM CODE 201.0409 7.00 0014

**Item 401.0200 Total: 7.00**

**013 403.0300 ASPHALT EMULSION TACK COAT SY**

I-195 SOUTH WATER STREET

**Distribution of Quantities**

Project Name - Improvements to Interstate Route 195 Interim Shoring South Water Street On  
Ramp Bridge No. 524  
R.I. Contract No. - 2006-CH-072  
FAP Nos: BRO-1950(104)

<u>Item</u> <u>No.</u>	<u>Item</u> <u>Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay</u> <u>Code</u>
013	403.0300	continued	FROM ITEM CODE 201.0409	50.00	0014

**Distribution of Quantities**

Project Name - Improvements to Interstate Route 195 Interim Shoring South Water Street On  
 Ramp Bridge No. 524  
 R.I. Contract No. - 2006-CH-072  
 FAP Nos: BRO-1950(104)

<b>Item No.</b>	<b>Item Code</b>	<b>Description</b>	<b>UM</b>	<b>Qty.</b>	<b>Pay Code</b>
<b>016</b>	<b>803.9902 continued</b>	SPAN 2		4.00	0014
		SPAN 3		4.00	0014
		SPAN 4		4.00	0014
		SPAN 5		4.00	0014
		SPAN 6		4.00	0014
		SPAN 7		4.00	0014
		SPAN 8		4.00	0014
		SPAN 9		5.00	0014
				<b>Item 803.9902 Total:</b>	<b>53.00</b>
<b>017</b>	<b>805.9901</b>	<b>GABION WALL</b>	<b>CY</b>		
SOUTH WATER STREET ON RAMP BRIDGE NO. 524					
		PIER D3		15.00	0014
				<b>Item 805.9901 Total:</b>	<b>15.00</b>
<b>018</b>	<b>808.0501</b>	<b>CONCRETE SUBSTRUCTURE CLASS XX</b>	<b>CY</b>		
<b>3/4" FOOTINGS</b>					
SOUTH WATER STREET ON RAMP BRIDGE NO. 524					
		PIER D10		3.00	0014
		PIER D11		3.00	0014
		PIER D12		3.00	0014
		PIER D3		27.00	0014
		PIER D5		27.00	0014
		PIER D9		3.00	0014
				<b>Item 808.0501 Total:</b>	<b>66.00</b>
<b>019</b>	<b>810.0200</b>	<b>STANDARD BARS GRADE 60</b>	<b>LBS</b>		
SOUTH WATER STREET ON RAMP BRIDGE NO. 524					
		PIER D10 - #5		200.00	0014
		PIER D11 - #5		200.00	0014
		PIER D12 - #5		200.00	0014

**Distribution of Quantities**

Project Name - Improvements to Interstate Route 195 Interim Shoring South Water Street On  
 Ramp Bridge No. 524  
 R.I. Contract No. - 2006-CH-072  
 FAP Nos: BRO-1950(104)

<b>Item No.</b>	<b>Item Code</b>	<b>Description</b>	<b>UM</b>	<b>Qty.</b>	<b>Pay Code</b>
<b>019</b>	<b>810.0200 continued</b>	PIER D3 - #10		1,375.00	0014
		PIER D3 - #6		1,450.00	0014
		PIER D5 - #10		1,375.00	0014
		PIER D5 - #6		1,450.00	0014
		PIER D9 - #5		200.00	0014
				<b>Item 810.0200 Total:</b>	<b>6,450.00</b>

<b>020</b>	<b>824.9901</b>	<b>FURNISH, FABRICATE AND ERECT</b>	<b>EACH</b>		
		<b>SUPPLEMENTAL GIRDER SHORING -</b>			
		<b>TYPE A - LAND</b>			
		SOUTH WATER STREET ON RAMP			
		BRIDGE NO. 524			
		PIER D10 - TYPE A		4.00	0014
		PIER D11 - TYPE A		6.00	0014
		PIER D12 - TYPE A		6.00	0014
		PIER D7 - TYPE A		4.00	0014
		PIER D8 - TYPE A		4.00	0014
		PIER D9		4.00	0014
				<b>Item 824.9901 Total:</b>	<b>28.00</b>

<b>021</b>	<b>824.9906</b>	<b>FURNISH, FABRICATE AND ERECT</b>	<b>EACH</b>		
		<b>SUPPLEMENTAL GIRDER SHORING -</b>			
		<b>TYPE C</b>			
		SOUTH WATER STREET ON RAMP			
		BRIDGE NO. 524			
		PIER D3 TYPE C		6.00	0014
		PIER D5 TYPE C		6.00	0014
				<b>Item 824.9906 Total:</b>	<b>12.00</b>

**022 901.0901 <Item deleted>**

**Item 901.0901 <Item deleted>**

**023 906.0110 GRANITE CURB, QUARRY SPLIT LF**

**Distribution of Quantities**

Project Name - Improvements to Interstate Route 195 Interim Shoring South Water Street On  
 Ramp Bridge No. 524  
 R.I. Contract No. - 2006-CH-072  
 FAP Nos: BRO-1950(104)

<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>
<b>023</b>	<b>906.0110</b>	<b>continued STRAIGHT, STANDARD 7.3.0</b>			
		I-195 SOUTH WATER STREET (UNDER RAMP CR-1) MISCELLANEOUS		30.00	0014
				<b>Item 906.0110 Total:</b>	<b>30.00</b>
<b>024</b>	<b>906.0720</b>	<b>RESET STOCKPILE CURB STRAIGHT LF CIRCULAR CORNER RETURNS</b>			
		I-195 SOUTH WATER STREET (UNDER RAMP CR-1) FROM ITEM CODE 201.0450		22.00	0014
				<b>Item 906.0720 Total:</b>	<b>22.00</b>
<b>025</b>	<b>907.0200</b>	<b>CALCIUM CHLORIDE FOR DUST CONTROL (PROJECT WIDE)</b>	<b>TON</b>		
		I-195 SOUTH WATER STREET PROJEC WIDE		1.00	0014
				<b>Item 907.0200 Total:</b>	<b>1.00</b>
<b>026</b>	<b>914.5010</b>	<b>FLAGPERSONS</b>	<b>MHRS</b>		
		I-195 SOUTH WATER STREET ASSUMED 2 FLAGPERSON FOR 3 MONTHS		1,040.00	0014
				<b>Item 914.5010 Total:</b>	<b>1,040.00</b>
<b>027</b>	<b>914.5020</b>	<b>FLAGPERSONS - OVERTIME</b>	<b>MHRS</b>		
		I-195 SOUTH WATER STREET 50% OF ITIM CODE 914.5010		520.00	0014

**Distribution of Quantities**

Project Name - Improvements to Interstate Route 195 Interim Shoring South Water Street On  
 Ramp Bridge No. 524  
 R.I. Contract No. - 2006-CH-072  
 FAP Nos: BRO-1950(104)

<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>
027	914.5020	continued		<b>Item 914.5020 Total: 520.00</b>	
028	916.0600	<b>SHOCK ABSORBING BARRIER MODULES</b>	<b>GRP</b>		
		I-195 SOUTH WATER STREET			
		GIRDER SHORING UNDER PIER D10		2.00	0014
		GIRDER SHORING UNDER PIER D11		2.00	0014
		GIRDER SHORING UNDER PIER D12		2.00	0014
		PERMANENT RT CLOSURE ON RAMP CR-1		2.00	0014
				<b>Item 916.0600 Total: 8.00</b>	
029	919.0101	<b>TEST PITS</b>	<b>EACH</b>		
		SOUTH WATER STREET ON RAMP BRIDGE NO. 524			
		PIER D10		1.00	0014
		PIER D11		1.00	0014
		PIER D12		1.00	0014
		PIER D7		1.00	0014
		PIER D8		1.00	0014
		PIER D9		1.00	0014
				<b>Item 919.0101 Total: 6.00</b>	
030	920.0080	<b>PLACED STONE RIPRAP R-1, R-2 STANDARD 8.3.0</b>	<b>CY</b>		
		SOUTH WATER STREET ON RAMP BRIDGE NO. 524			
		PIER D3		45.00	0014
		PIER D5		20.00	0014
				<b>Item 920.0080 Total: 65.00</b>	
031	922.0100	<b>TEMPORARY CONSTRUCTION SIGNS</b>	<b>SF</b>		

**Distribution of Quantities**

Project Name - Improvements to Interstate Route 195 Interim Shoring South Water Street On  
 Ramp Bridge No. 524  
 R.I. Contract No. - 2006-CH-072  
 FAP Nos: BRO-1950(104)

Item No.	Item Code	Description	UM	Qty.	Pay Code
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**031 922.0100 continued STANDARD 29.1.0 AND 27.1.1**

I-195 SOUTH WATER STREET

RAMP CR-1				36.00	0014
RAMP CR-2 & SR-7 (EXIT 2)				152.00	0014
RAMP CR-2 & SR-7 (UNDER PIER D12)				43.00	0014
RAMP SR-5 & RAMP SR-7				63.00	0014
SIGNS FOR SIDEWALK CLOSURE				32.00	0014

**Item 922.0100 Total: 326.00**

**032 923.0105 DRUM BARRICADE STANDARD 26.2.0 BDAY**

I-195 SOUTH WATER STREET

70 BARRELS FOR 3 MONTHS (70X16X7) = 6,370				6,370.00	0014
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**Item 923.0105 Total: 6,370.00**

**033 923.9901 DRUM BARRICADE STD. 26.2.0 EACH LEFT IN PLACE**

PERMANENT RIGHT SIDE  
CLOSURE

RAMP CR-1				10.00	0014
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**Item 923.9901 Total: 10.00**

**034 924.0113 ADVANCE WARNING ARROW PANEL PDAY**

I-195 SOUTH WATER STREET  
ON RAMP CR-2

				42.00	0014
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**Item 924.0113 Total: 42.00**

**035 926.0130 PRECAST MEDIAN BARRIER FOR TEMPORARY TRAFFIC CONTROL LF**

**Distribution of Quantities**

Project Name - Improvements to Interstate Route 195 Interim Shoring South Water Street On  
 Ramp Bridge No. 524  
 R.I. Contract No. - 2006-CH-072  
 FAP Nos: BRO-1950(104)

<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>	
<b>035</b>	<b>926.0130</b>	<b>continued STANDARD 40.5.0</b>				
		RAMP CR-2 & SR-7				
		GIRDER SHORING UNDER		250.00	0014	
		PIER D12				
		RAMP SR-5 & SR-7				
		GIRDER SHORING UNDER		100.00	0014	
		PIER D10				
		GIRDER SHORING UNDER		240.00	0014	
		PIER D12				
		<b>Item 926.0130 Total:</b>			<b>590.00</b>	
<b>036</b>	<b>926.0140</b>	<b>REFLECTIVE DELINEATORS FOR</b>	<b>EACH</b>			
		<b>TEMPORARY CONCRETE BARRIERS</b>				
		RAMP CR-1				
		PERMANENT RT CLOSURE ON		3.00	0014	
		RAMP CR-1				
		RAMP CR-2 & SR-7				
		GIRDER SHORING UNDER		5.00	0014	
		PIER D12				
		RAMP SR-5 & SR-7				
		GIRDER SHORING UNDER		2.00	0014	
		PIER D10				
		GIRDER SHORING UNDER		5.00	0014	
		PIER D11				
		<b>Item 926.0140 Total:</b>			<b>15.00</b>	
<b>037</b>	<b>929.0300</b>	<b>CHAMP MANAGEMENT SYSTEM</b>	<b>EACH</b>			
		I-195 SOUTH WATER STREET				
		PROJEC WIDE		10,000.00	0014	
		<b>Item 929.0300 Total:</b>			<b>10,000.00</b>	
<b>038</b>	<b>932.0200</b>	<b>FULL-DEPTH SAWCUT OF</b>	<b>LF</b>			
		<b>BITUMINOUS PAVEMENT</b>				

**Distribution of Quantities**

Project Name - Improvements to Interstate Route 195 Interim Shoring South Water Street On  
 Ramp Bridge No. 524  
 R.I. Contract No. - 2006-CH-072  
 FAP Nos: BRO-1950(104)

<b>Item No.</b>	<b>Item Code</b>	<b>Description</b>	<b>UM</b>	<b>Qty.</b>	<b>Pay Code</b>
<b>043</b>	<b>T20.2014</b>	<b>continued</b>			
		PERMANENT RIGHT SIDE CLOSURE			
		RAMP CR-1		670.00	0014
				<b>Item T20.2014 Total:</b>	<b>670.00</b>
<b>044</b>	<b>T20.2112</b>	<b>&lt;Item deleted&gt;</b>			
				<b>Item T20.2112 &lt;Item deleted&gt;</b>	
<b>045</b>	<b>201.0415</b>	<b>REMOVE AND DISPOSE GUARDRAIL AND POST ALL TYPES</b>	<b>LF</b>		
		I-195 SOUTH WATER STREET (UNDER RAMP CR-1)			
		RAMP SR-5		300.00	0014
				<b>Item 201.0415 Total:</b>	<b>300.00</b>
<b>046</b>	<b>301.0300</b>	<b>CRUSHED STONE OR CRUSHED GRAVEL BASE MODIFIED</b>	<b>CY</b>		
		I-195 SOUTH WATER STREET (UNDER RAMP CR-1)			
		RAMP SR-7/RAMP CR-2		53.00	0014
				<b>Item 301.0300 Total:</b>	<b>53.00</b>
<b>047</b>	<b>803.9903</b>	<b>FURNISH, FABRICATE, AND REMOVE AND DISPOSE UNDERDECK SHIELDING BR. 524 - SO. WATER ST. ON RAMP BRIDGE</b>	<b>SF</b>		
		SOUTH WATER STREET ON RAMP BRIDGE NO. 524			
		SPAN 10		425.00	0014
		SPAN 11		425.00	0014

**Distribution of Quantities**

Project Name - Improvements to Interstate Route 195 Interim Shoring South Water Street On  
 Ramp Bridge No. 524  
 R.I. Contract No. - 2006-CH-072  
 FAP Nos: BRO-1950(104)

<b>Item No.</b>	<b>Item Code</b>	<b>Description</b>	<b>UM</b>	<b>Qty.</b>	<b>Pay Code</b>
047	803.9903 continued	SPAN 12		475.00	0014
				<b>Item 803.9903 Total:</b>	<b>1,325.00</b>
048	806.9901	<b>REMOVE, DISPOSE, AND REPLACE EXISTING UNDERDECK SHORING - LAND BR. 524 - SO. WATER ST. ON RAMP BRIDGE</b>	<b>SF</b>		
		SOUTH WATER STREET ON RAMP BRIDGE NO. 524			
		SPAN 10		225.00	0014
		SPAN 11		225.00	0014
		SPAN 6		125.00	0014
		SPAN 7		125.00	0014
		SPAN 8		125.00	0014
		SPAN 9		225.00	0014
				<b>Item 806.9901 Total:</b>	<b>1,050.00</b>
049	806.9902	<b>REMOVE, DISPOSE, AND REPLACE EXISTING UNDERDECK SHORING - RIVER BR. 524 - SO. WATER ST. ON RAMP BRIDGE</b>	<b>SF</b>		
		SOUTH WATER STREET ON RAMP BRIDGE NO. 524			
		SPAN 4		125.00	0014
				<b>Item 806.9902 Total:</b>	<b>125.00</b>
050	901.0191	<b>GUARDRAIL STEEL BEAM ANCHORAGE TRAILING END SECTION STANDARD 34.3.4</b>	<b>EACH</b>		
		I-195 SOUTH WATER STREET (UNDER RAMP CR-1)			
		RAMP SR-5		1.00	0014
				<b>Item 901.0191 Total:</b>	<b>1.00</b>
051	901.0193	<b>GUARDRAIL STEEL BEAM SINGLE FACE STANDARD 34.2.0</b>	<b>LF</b>		
		I-195 SOUTH WATER STREET (UNDER RAMP CR-1)			
		RAMP SR-5		300.00	0014

**Distribution of Quantities**

Project Name - Improvements to Interstate Route 195 Interim Shoring South Water Street On  
 Ramp Bridge No. 524  
 R.I. Contract No. - 2006-CH-072  
 FAP Nos: BRO-1950(104)

<b>Item No.</b>	<b>Item Code</b>	<b>Description</b>	<b>UM</b>	<b>Qty.</b>	<b>Pay Code</b>
<b>051</b>	<b>901.0193</b>	<b>continued</b>		<b>Item 901.0193 Total: 300.00</b>	
<b>S052</b>	<b>901.9901</b>	<b>ET-PLUS GUARDRAIL END TERMINAL</b>	<b>EACH</b>		
		I-195 SOUTH WATER STREET			
		RAMP SR-5		1.00	0014
				<b>Item 901.9901 Total: 1.00</b>	
<b>053</b>	<b>909.3020</b>	<b>PRECAST MEDIAN BARRIER</b>	<b>LF</b>		
		<b>SINGLE-FACED STANDARD 40.2.0</b>			
		I-195 SOUTH WATER STREET			
		(UNDER RAMP CR-1)			
		RAMP CR-2/RAMP SR-7 @		140.00	0014
		PIER D12			
				<b>Item 909.3020 Total: 140.00</b>	
<b>054</b>	<b>923.0200</b>	<b>FLUORESCENT TRAFFIC CONES</b>	<b>EACH</b>		
		<b>STANDARD 26.1.0</b>			
		I-195 SOUTH WATER STREET			
		RAMP CR-2 LEFT AND RIGHT		60.00	0014
		SIDE CLOSURES			
		RAMP SR-5 LEFT AND RIGHT		30.00	0014
		SIDE CLOSURES			
		RAMP SR-7 LEFT AND RIGHT		30.00	0014
		SIDE CLOSURES			
				<b>Item 923.0200 Total: 120.00</b>	
<b>055</b>	<b>926.9901</b>	<b>PRECAST MEDIAN BARRIER FOR</b>	<b>LF</b>		
		<b>TEMPORARY TRAFFIC CONTROL</b>			
		<b>STANDARD 40.5.0 LEFT IN PLACE</b>			
		ON RAMP CR-1		740.00	0014
		RAMP SR-7/RAMP SR-5		120.00	0014
		@PIER D11			
		SOUTH WATER STREET			
				<b>Item 926.9901 Total: 860.00</b>	

**Distribution of Quantities**

Project Name - Improvements to Interstate Route 195 Interim Shoring South Water Street On  
Ramp Bridge No. 524  
R.I. Contract No. - 2006-CH-072  
FAP Nos: BRO-1950(104)

<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>
055	T20.2012	12 INCH EPOXY RESIN PAVEMENT MARKINGS WHITE	LF		
		PERMANENT RIGHT SIDE CLOSURE			
		RAMP CR-1		172.00	0014
				<hr/>	
				<b>Item T20.2012 Total:</b>	<b>172.00</b>

# INDEX OF DRAWINGS

SHEET NO.    DESCRIPTION

1	COVER SHEET
2	GENERAL NOTES
3	LIST OF ABBREVIATIONS
4	GIRDER SHORING PLAN 1 SO. WATER ST. ON RAMP BRIDGE, NO. 524
5	GIRDER SHORING PLAN 2 SO. WATER ST. ON RAMP BRIDGE, NO. 524
5A	UNDERDECK SHORING DETAILS
6	SHORING TYPE A & TYPE C SCHEDULES BEARING DETAILS
7	TYPICAL GIRDER SHORING ELEVATIONS TYPE A
8	TYPICAL GIRDER SHORING ELEVATIONS TYPE C
9	TYPICAL GIRDER SHORING DETAILS 1
10	TYPICAL GIRDER SHORING DETAILS 2
11	HIGHWAY LEGEND AND GENERAL NOTES
12	GENERAL PLAN NO. 1
13	GENERAL PLAN NO. 2
14	GENERAL DETAILS
15	TRAFFIC CONTROL PLAN NO. 1 RAMP CR-1
16	TRAFFIC CONTROL PLAN NO. 2 RAMP SR-5 AND SR-7
17	TRAFFIC CONTROL PLAN NO. 3 RAMP CR-2
18	TRAFFIC CONTROL PLAN NO. 4 RAMP CR-2 AND SR-7

## ADDENDUM NO. 3

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	07/14/06	UIC			

### GENERAL NOTES

- ALL CONSTRUCTION INDICATED ON THESE PLANS SHALL BE IN ACCORDANCE WITH:
  - THE 2004 REVISION OF AND SUPPLEMENTS TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (RI STANDARD SPECIFICATIONS).
  - THE SEVENTEENTH EDITION OF THE STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO), DATED 2002 INCLUDING THE LATEST INTERIM SPECIFICATIONS.
  - 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.
- ALL ELEVATIONS ARE REFERENCED TO MEAN HIGH WATER (CITY OF PROVIDENCE) "DATUM OF PMHW = EL. 0.00"
- COORDINATES USED ON THESE PLANS ARE BASED ON THE STATE RECTANGULAR COORDINATE SYSTEM.
- FOR BENCH MARKS AND TIES SEE HIGHWAY LOCATION PLANS.
- ANGLES ARE SHOWN TO THE NEAREST SECOND.
- ALL WORKING POINTS ARE SHOWN AT THE CENTERLINES OF BEARING OF ABUTMENTS AND AT THE CENTERLINES OF PIERS.
- ALL ABUTMENTS AND WALLS ARE DRAWN LOOKING AT EXPOSED FACES.
- THE CONTRACTOR SHALL PROTECT THE EXISTING UNDERDECK LIGHTING SYSTEM DURING ALL CONSTRUCTION OPERATIONS.

### DESIGN DATA

#### SPECIFICATIONS

\* SEVENTEENTH EDITION OF THE STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO), DATED 2002 INCLUDING THE LATEST INTERIM SPECIFICATIONS.

\* THE 2004 REVISION OF AND SUPPLEMENTS TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (RI STANDARD SPECIFICATIONS).

#### DESIGN MANUAL

THE 1993 EDITION OF THE STATE OF RHODE ISLAND DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL, INCLUDING ALL REVISIONS TO DATE.

#### DESIGN LOADING

AASHTO HS 20-44 LOADING

#### MATERIALS

##### STRUCTURAL STEEL:

- STEEL PLATES AND SHAPES EXCEPT TUBING, AASHTO DESIGNATION M 270 (ASTM A 709) GRADE 36
- STRUCTURAL TUBING ASTM DESIGNATION A500 GRADE B
- TIMBER, SOUTHERN YELLOW PINE (PRESSURE TREATED), NO. 1 OR BETTER FOR 2x6's AND 4x6's SOUTHERN YELLOW PINE (PRESSURE TREATED), NO. 1 OR SELECT STRUCTURAL FOR 2x12's, SEE DETAILS FOR REQUIREMENTS SOUTHERN YELLOW PINE (PRESSURE TREATED), NO. 2 OR BETTER FOR 6x8 POSTS
- PLYWOOD APA RATED SHEATHING EXT. (GRADE STRESS LEVEL S-1), (PRESSURE TREATED).
- SHIMS - OAK, OR ENGINEER APPROVED EQUAL

##### REINFORCING STEEL:

- AASHTO DESIGNATION M 31 (ASTM DESIGNATION A 615) GRADE 60.
- ASTM DESIGNATION A 706, GRADE 60.

##### CONCRETE:

- CLASS XX(AE) f'c = 4,000 PSI

### SHOP DRAWINGS

THE FOLLOWING SHOP DRAWINGS AND CONTRACTOR DESIGN DETAILS AND PROCEDURES ARE REQUIRED FOR THIS PROJECT. THIS LIST MAY NOT BE ALL INCLUSIVE. IF A STANDARD SPECIFICATION, SPECIAL PROVISION OR PLAN HAS A SUBMITTAL REQUIREMENT AND IT IS NOT ON THIS LIST, THE SUBMITTAL IS REQUIRED. SEE SPECIAL PROVISIONS FOR ADDITIONAL SUBMISSION REQUIREMENTS.

- STRUCTURAL STEEL - MATERIAL CERTIFICATIONS - WELDING SUBMITTALS
- ELASTOMERIC BEARINGS
- DRILL AND SET ADHESIVE ANCHORS
- TIMBER - MATERIAL CERTIFICATIONS
- UNDERDECK SHIELDING

### STRUCTURAL STEEL NOTES

- FRAMING DIMENSIONS ARE GIVEN ALONG CENTERLINES OF GIRDERS AND ALONG CENTERLINES OF BEARINGS ON ABUTMENTS AND PIERS.
  - THE CONTRACTOR SHALL NOTE THAT GIRDERS WHICH ARE NOT PARALLEL WILL REQUIRE GIRDER SHORING THAT IS SPACED AT DIMENSIONS WHICH VARY FROM THOSE SHOWN AT THE CENTERLINES OF BEARINGS.
- SHOP DRAWINGS FOR ALL FABRICATED STEEL, BEARINGS, EXPANSION JOINTS, FALSEWORK AND RAILING SHALL BE SUBMITTED TO THE ENGINEER IN SUFFICIENT TIME TO PERMIT CAREFUL CHECKING.
- INSPECTION OF WELDS INCLUDING RADIOGRAPHIC TESTING (RT) AND MAGNETIC PARTICLE TESTS (MT) SHALL BE IN ACCORDANCE WITH THE RI STANDARD SPECIFICATIONS WITH THE EXCEPTION OF THE FOLLOWING:
  - THE TOTAL QUANTITY OF COMPRESSION GROOVE WELDS TESTED SHALL BE 25 PERCENT MINIMUM.
  - EDGE BLOCKS SHALL BE UTILIZED FOR GROOVE WELDS THAT ARE TO BE RT OR ULTRASONIC (UT) TESTED.
  - ALL OTHER GROOVE WELDS SHALL BE MT OR DYE-PENETRANT (PT) TESTED.
- ALL HIGH STRENGTH BOLTS SHALL CONFORM TO AASHTO DESIGNATION M 164 (ASTM DESIGNATION A 325) OR AASHTO DESIGNATION M 253 (ASTM DESIGNATION A 490) WHERE SHOWN ON THE PLANS. THE CONTRACTOR SHALL REFER TO SECTION 824 OF RHODE ISLAND STANDARD SPECIFICATIONS FOR MATERIAL AND INSTALLATION REQUIREMENTS. ALL STRUCTURAL STEEL CONNECTIONS ARE 'SLIP-CRITICAL', WITH CLASS B SURFACE CONDITIONS, UNLESS NOTED OTHERWISE.
- WASHERS MEETING AASHTO STANDARDS M 293 (ASTM DESIGNATION F 436) 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 SHALL BE IN ACCORDANCE WITH THE LATEST STRUCTURAL WELDING CODE ANSI/AASHTO/AWS D1.5 (INCLUDING ALL INTERIMS TO DATE) AND APPLICABLE SUPPLEMENTAL AWS PUBLICATIONS. ALL SHOP CONNECTIONS AND SPLICES SHALL BE WELDED. WELDING PROCEDURES AND TECHNIQUES TO BE USED IN FABRICATION AND ERECTION OF SUPPLEMENTAL GIRDER SHORING SYSTEM SHALL BE AS SHOWN ON THE SHOP DRAWINGS.
- WELDING ELECTRODES SHALL HAVE THE SAME CORROSION RESISTANCE AS THE BASE METAL.
- NO SHOP FILLET WELD SHALL BE LESS THAN 3/16".
- PRIOR TO FABRICATION, ALL MATERIALS SHALL BE BLAST-CLEANED TO AT LEAST SSPC-SF6 TO REMOVE ALL OIL, DIRT, GREASE, MILL SCALE AND OTHER DELETERIOUS MATERIALS FROM THE SURFACES OF THE STEEL TO BE FABRICATED.
- ALL SHOPS FABRICATING MAJOR BRIDGE STEEL COMPONENTS, SHALL BE CERTIFIED FOR MAJOR STEEL BRIDGES (GBR) IN ACCORDANCE WITH THE AISC QUALITY CERTIFICATION PROGRAM OR EQUIVALENT. SHOPS FABRICATING MINOR COMPONENTS (SUCH AS EXPANSION JOINTS, STEEL RAILING AND BEARINGS) SHALL, AT A MINIMUM, BE CERTIFIED FOR SIMPLE STEEL BRIDGE STRUCTURES (GBR).
- WHEN STEEL DIE STAMPS ARE USED TO IDENTIFY PIECES AND MEMBERS, FABRICATORS SHALL UTILIZE LOW STRESS STAMPS.

### SHORING NOTES

- MAXIMUM DESIGN LOADS (NON-FACTORED) PER GIRDER REACTION:

VERTICAL LOADS	LONGITUDINAL LOADS	LATERAL LOADS
DEAD LOAD; 41.62 KIPS	LIVE LOAD; 0.78 KIPS	WIND ON LIVE LOAD; 1.08 KIPS
LIVE LOAD W/ IMPACT; 44.14 KIPS	WIND LOAD; 1.03 KIPS	WIND LOAD; 4.31 KIPS
	WIND ON LIVE LOAD; 0.41 KIPS	CENTRIFUGAL FORCE; 3.20 KIPS
	TEMPERATURE; 1.14 KIPS	

- LOADS ARE APPLIED AT THE GIRDER BEARING ELEVATION.
- LONGITUDINAL LOADS ARE APPLIED IN THE DIRECTION OF THE GIRDER CENTERLINE.
- LATERAL LOADS ARE APPLIED PERPENDICULAR TO THE GIRDER CENTERLINE.

### UNDERDECK SHORING NOTES

- DESIGN LOADS (NON-FACTORED):  
SHORING  
 DEAD LOADS: 140 PSF  
 LIVE LOADS: 1050 PSF (WITH IMPACT)
- 2x6 NAILING STRIP SHALL BE INTERRUPTED AT EYEBOLTS FOR DEBRIS NETTING SUPPORTS, AND CONTINUED ON THE OTHER SIDE AS REQUIRED.

### CONCRETE NOTES

- CLASSES OF CONCRETE SHALL BE HP, X, XX & A, AS DESCRIBED IN THE LATEST REVISION OF TABLES (1) & (2) UNDER SECTION 601 "PORTLAND CEMENT CONCRETE" OF THE RI STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS OF THE SPECIFICATIONS. SEE INDIVIDUAL BRIDGE QUANTITIES FOR CLASSES OF CONCRETE USED.
- ALL PORTLAND CEMENT CONCRETE SHALL BE AIR-ENTRAINED PORTLAND CEMENT CONCRETE.
 

NOTE:  
ALL CONCRETE TO BE MODIFIED THROUGH THE ADDITION OF CALCIUM NITRIDE BASED CORROSION INHIBITOR IN ACCORDANCE WITH THE RI STANDARD SPECIFICATIONS.
- REINFORCING STEEL SHALL CONFORM TO AASHTO DESIGNATION M 31 (ASTM DESIGNATION A 615) GRADE 60. EPOXY COATED BARS ARE DISTINGUISHED FROM NON-EPOXY COATED BARS BY THE APPROPRIATE SYMBOL AS INDICATED ON THE PLANS. ALL WIRE TIES AND MISCELLANEOUS HARDWARE USED FOR PLACEMENT OF EPOXY COATED REINFORCING SHALL ALSO BE EPOXY COATED.
- ALL LAP SPLICES NOT SHOWN ON THE PLANS SHALL BE LAPPED IN ACCORDANCE WITH AASHTO SPECIFICATIONS FOR CLASS C LAP SPLICES.
 

NOTE: LAP LENGTHS DIFFER FOR EPOXY COATED REINFORCEMENT.
- ALL REINFORCING BARS SHALL HAVE THE FOLLOWING MINIMUM COVER:
 

	MINIMUM COVER
CONCRETE CAST AGAINST OR PERMANENTLY EXPOSED TO EARTH (FOOTINGS, ABUTMENT AND WALL FACES, BACKWALLS)	3"
STIRRUPS, TIES AND SPIRALS	2"
CONCRETE DIRECTLY EXPOSED TO SALT OR BRACKISH WATER (TO MAIN REINFORCING)	4"
DECK SLABS (WITH WEARING SURFACE)	TOP 2" (+1/4", -0") BOTTOM 1" (+1/8", -0")
DECK SLABS (WITHOUT WEARING SURFACE)	TOP 2 1/2" (+1/4", -0") BOTTOM 1" (+1/8", -0")
ALL OTHER BARS	2"
- ALL EXPOSED EDGES AND REENTRANT CORNERS NOT OTHERWISE DETAILED ON THE PLANS SHALL HAVE A MINIMUM 3/4" CHAMFER.
- IN ACCORDANCE WITH THE RI STANDARD SPECIFICATIONS, ALL METAL TIES OR ANCHORAGES WHICH ARE REQUIRED FOR CONCRETE FORMWORK SHALL BE SO CONSTRUCTED THAT THEY CAN BE REMOVED TO AT LEAST TWO INCHES FROM 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 A CONTRACTOR PROPOSES TO USE THEM HE MUST SUBMIT A CATALOG CUT AND OTHER NECESSARY INFORMATION 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 TO THE SATISFACTION OF THE ENGINEER.

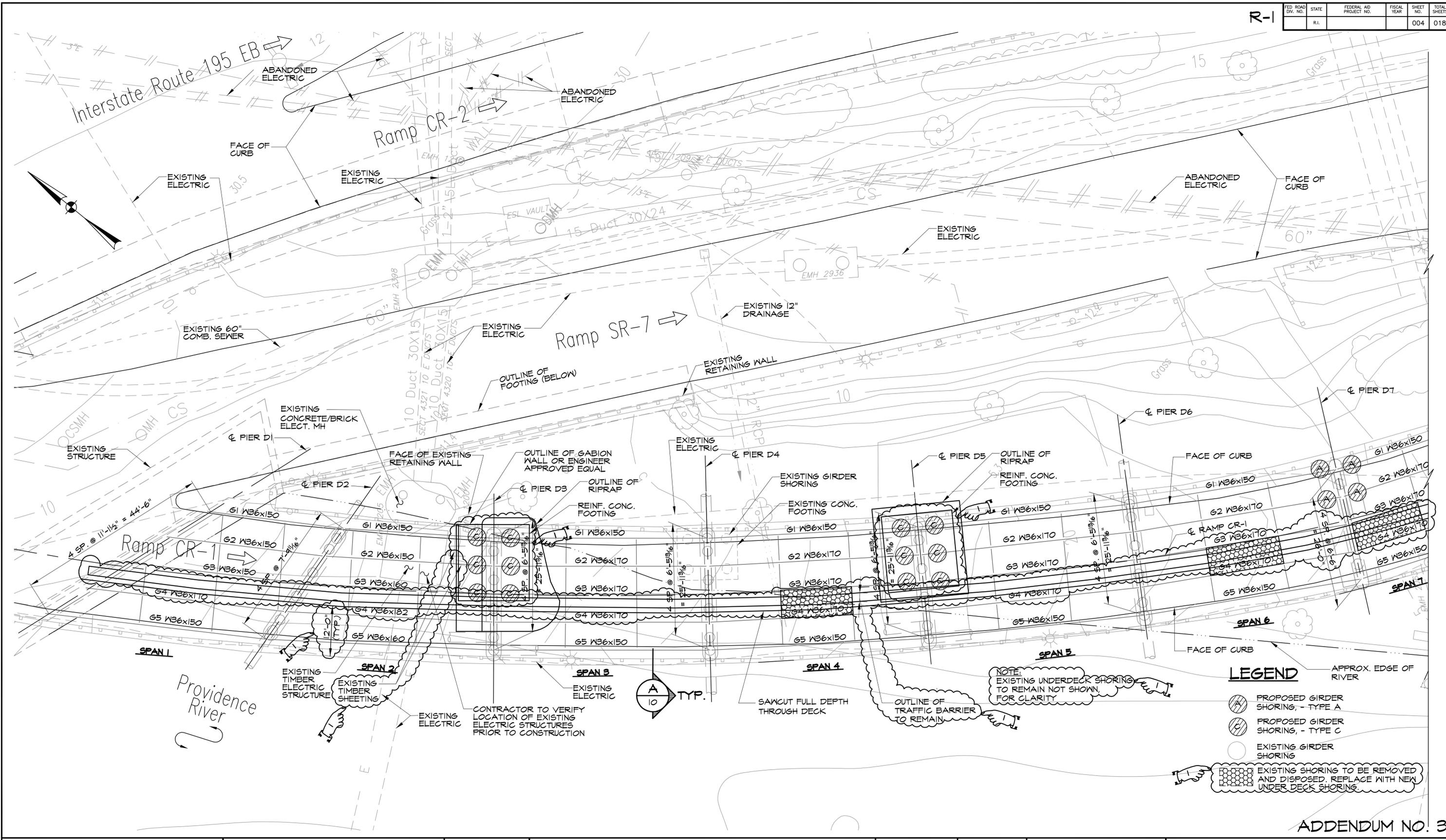
### SPECIAL NOTES TO CONTRACTOR

- THE CONTRACTOR SHALL NOTE THAT THE EXISTING STRUCTURE GEOMETRY, ELEVATION, DRAINAGE AND UTILITY INFORMATION ARE BASED ON ORIGINAL DESIGN DRAWINGS AND SUPPLEMENTAL SURVEYS AND ARE PRESENTED FOR INFORMATION ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL ELEVATIONS, DIMENSIONS, UTILITY LOCATIONS, DETAILS, ANGLES, STRUCTURAL MEMBER SIZES AND LAYOUTS AFFECTING HIS WORK, AS SHOWN ON THESE PLANS. COPIES OF EXISTING CONTRACT DRAWINGS ARE AVAILABLE FROM THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION.
- THE CONTRACTOR SHALL VERIFY TOP OF FOOTING ELEVATION PRIOR TO FABRICATION OF THE SUPPLEMENTAL GIRDER SHORING. THESE TEST PITS SHALL BE PAID FOR UNDER ITEM 919.0101 "TEST PITS".

### ADDENDUM NO. 3

S:\ACAD\BRIDGE\195\Intersom\Task\Addendum\0101.DWG\_V1\_002\_JSRGNOT001\_ADD03.dwg, 7/27/2006 4:23:57 PM

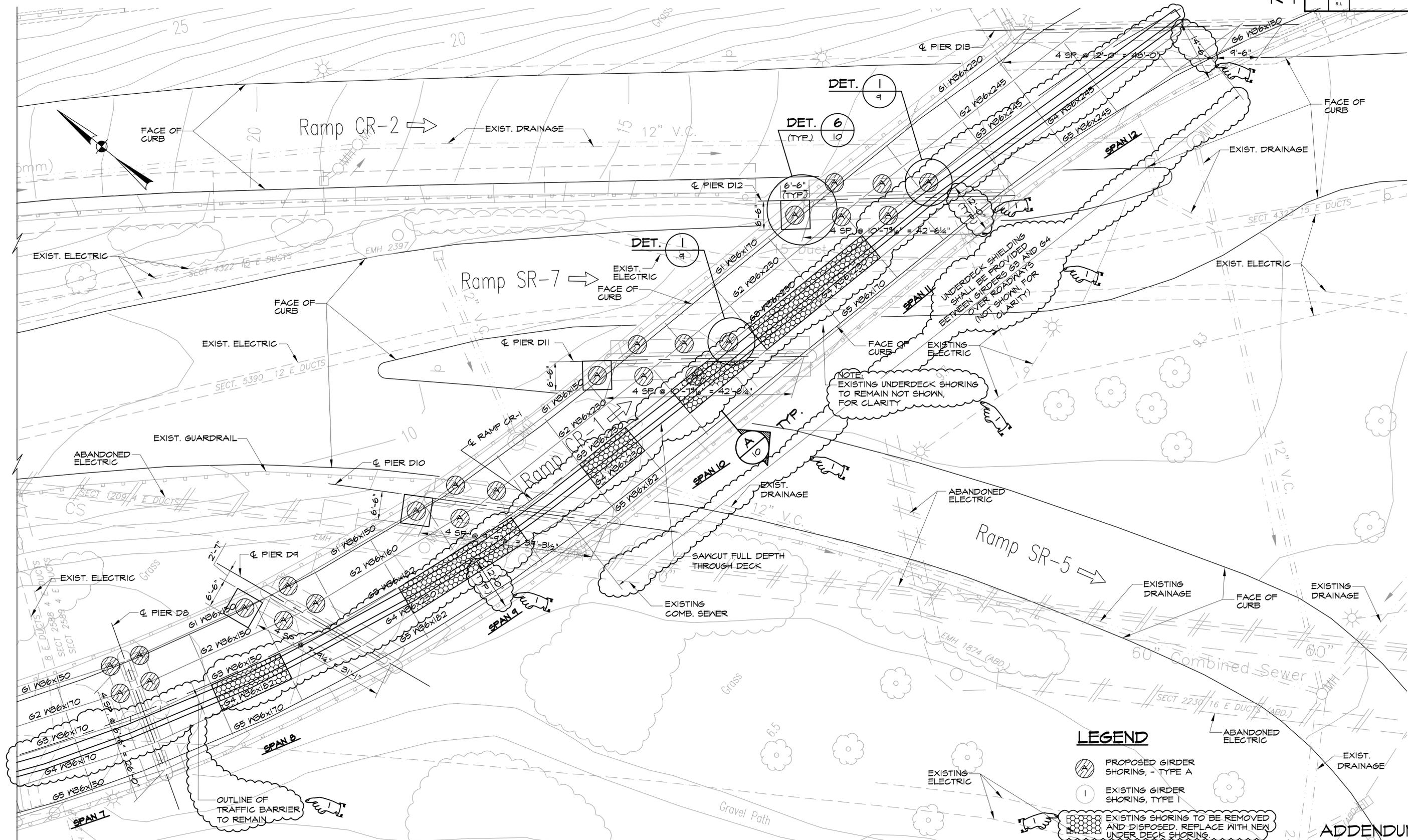
 Maguire Group Inc. Architects/Engineers/Planners 225 Chapman Street Providence, Rhode Island 02905	 RHODE ISLAND DEPARTMENT OF TRANSPORTATION	 INTERSTATE 195	DESIGNED BY: CHECKED: DATE: SHEET: 002 OF: 018	SCALE: NONE REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>NO.</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>7/14/06</td> <td>MJW</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	NO.	DATE	BY	NO.	DATE	BY	1	7/14/06	MJW				IMPROVEMENTS TO INTERSTATE ROUTE 195 INTERIM SHORING SOUTH WATER STREET PROVIDENCE RHODE ISLAND	GENERAL NOTES 2
			NO.	DATE	BY	NO.	DATE	BY										
1	7/14/06	MJW																



ADDENDUM NO. 3

<p>Maguire Group Inc.          Architects/Engineers/Planners          225 Chapman Street          Providence, Rhode Island 02905</p>	<p>RHODE ISLAND          DEPARTMENT OF TRANSPORTATION</p>		DESIGNED BY:	SCALE: 1" = 10'-0"	IMPROVEMENTS TO INTERSTATE ROUTE 195	
			CHECKED:	0 10' 20'	INTERIM SHORING	
DATE:	REVISIONS	REVISIONS	PROVIDENCE		RHODE ISLAND	
SHEET: 004	NO. DATE BY	NO. DATE BY	GIRDER SHORING PLAN 1		4	
OF: 018	1 7/14/06 MJW		SO. WATER ST. ON RAMP BRIDGE, No.524			

S:\ACAD\BRI\EGE\195\Intms\Wate\EST\Addendum2\0010Y\_V1\_004\_SHORING001\_ADD03.dwg, 7/27/2006 4:24:24 PM



**LEGEND**

- PROPOSED GIRDER SHORING, - TYPE A
- EXISTING GIRDER SHORING, TYPE I
- EXISTING SHORING TO BE REMOVED AND DISPOSED, REPLACE WITH NEW UNDERDECK SHORING

**ADDENDUM NO. 3**

**MAGUIRE GROUP**  
 Maguire Group Inc.  
 Architects/Engineers/Planners  
 225 Chapman Street  
 Providence, Rhode Island 02905



**RHODE ISLAND**  
 DEPARTMENT OF TRANSPORTATION

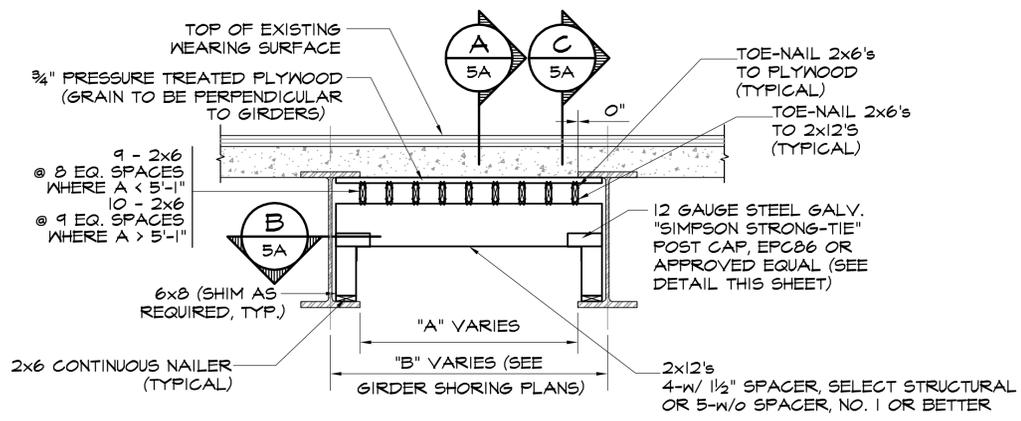


DESIGNED BY:  
 CHECKED:  
 DATE:  
 SHEET: 005  
 OF: 018

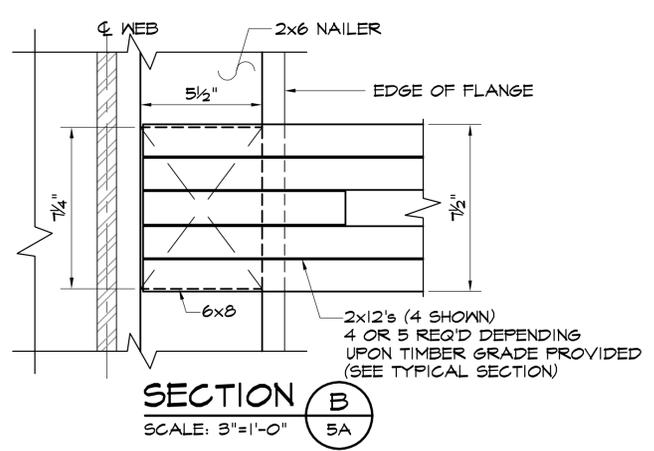
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REVISIONS			REVISIONS					
NO.	DATE	BY	NO.	DATE	BY			
1	7/14/06	MJW						

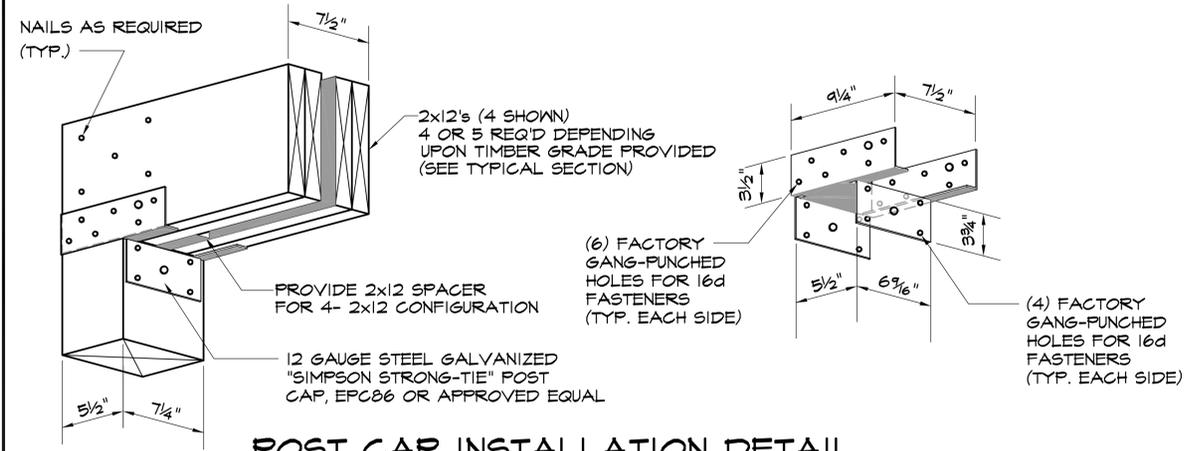
**IMPROVEMENTS TO INTERSTATE ROUTE 195**  
 INTERIM SHORING  
 SOUTH WATER STREET  
 PROVIDENCE RHODE ISLAND  
 GIRDER SHORING PLAN 2  
 SO. WATER ST. ON RAMP BRIDGE, No.524  
 5



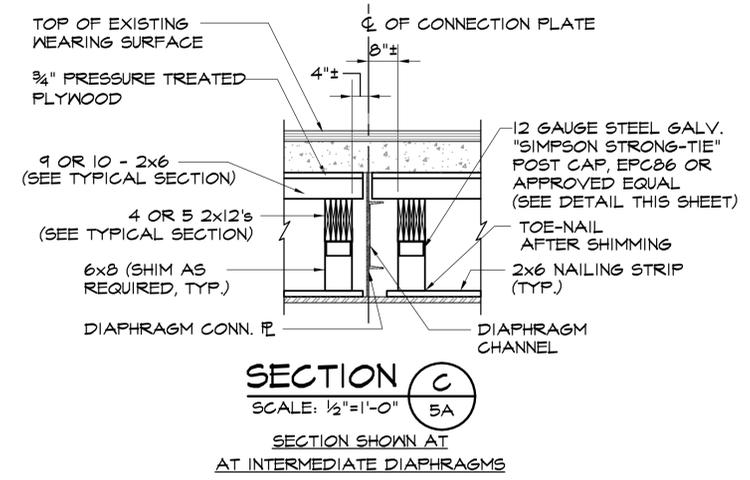
**TYPICAL SECTION**



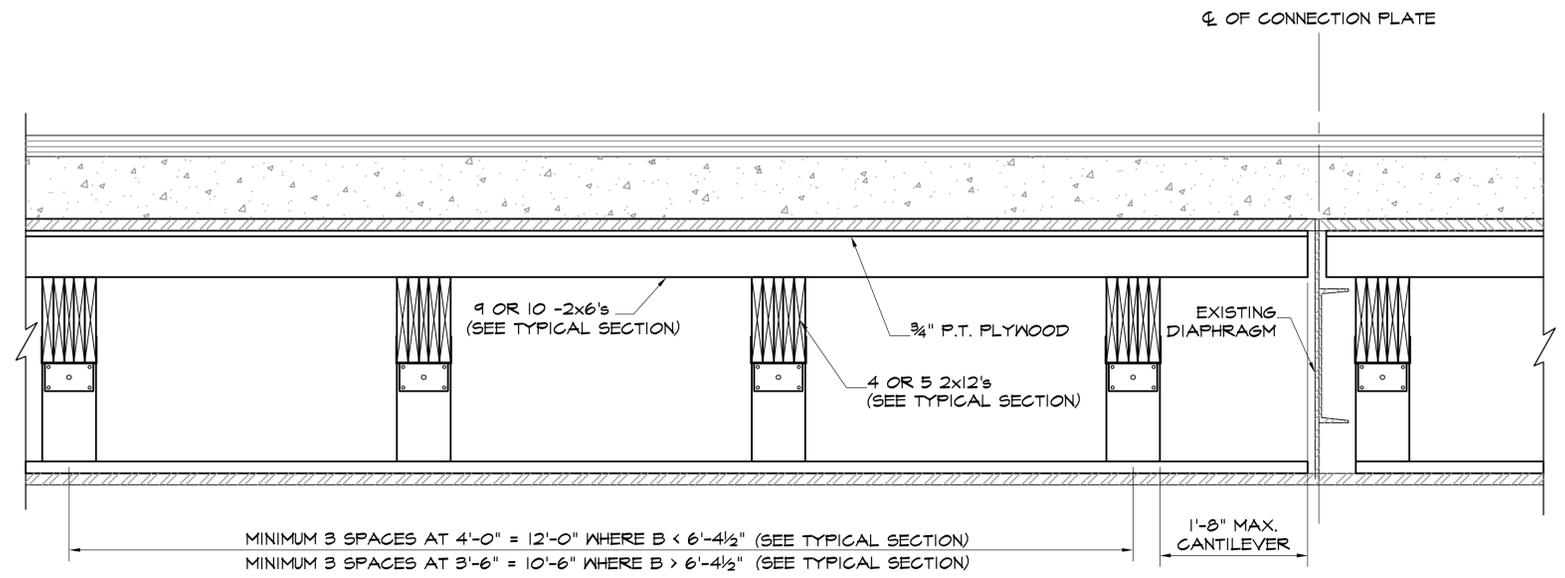
**SECTION B**  
SCALE: 3"=1'-0" 5A



**POST CAP INSTALLATION DETAIL**  
SCALE: N.T.S.



**SECTION C**  
SCALE: 1/2"=1'-0" 5A  
SECTION SHOWN AT  
AT INTERMEDIATE DIAPHRAGMS



**SECTION A**  
SCALE: 1"=1'-0" 5A

**ADDENDUM NO. 3**

**MAGUIRE GROUP**  
Maguire Group Inc.  
Architects/Engineers/Planners  
225 Chapman Street  
Providence, Rhode Island 02905



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

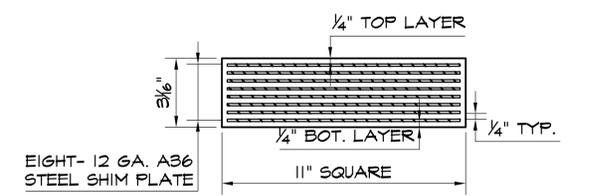
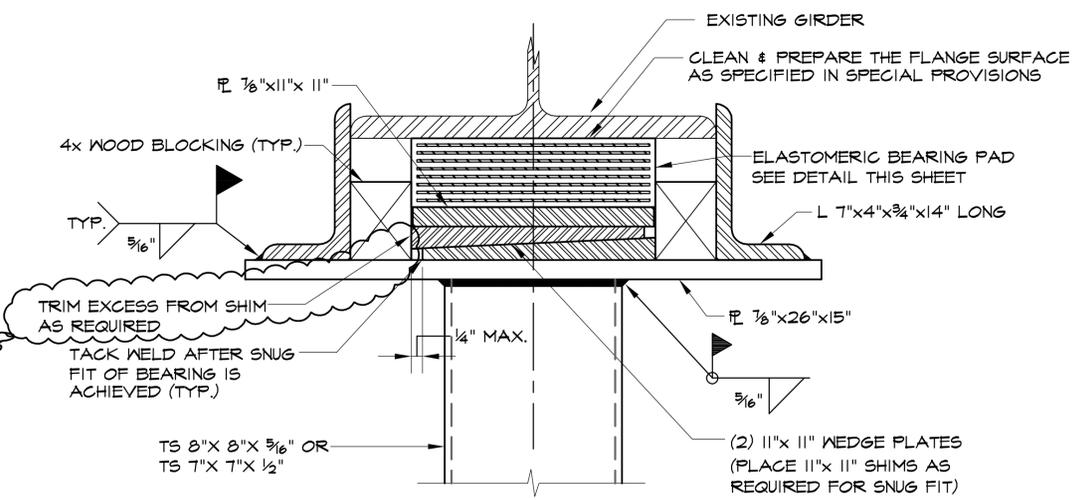
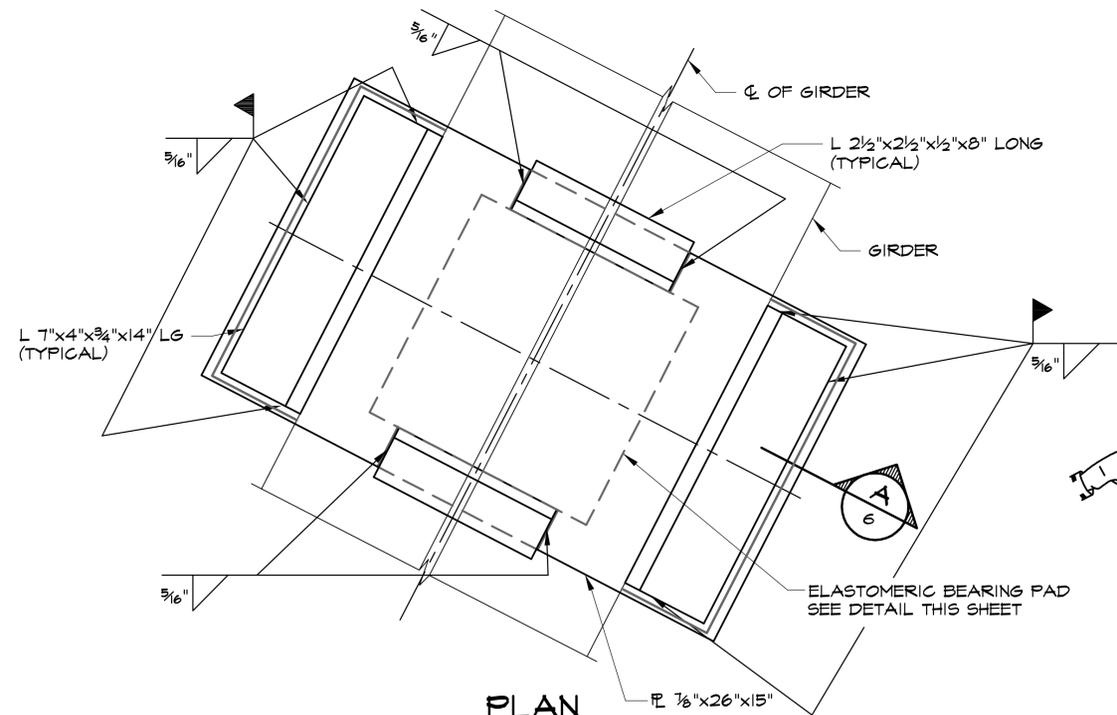


DESIGNED BY:  
CHECKED:  
DATE:  
SHEET: 005A  
OF: 018

SCALE: AS SHOWN

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

**IMPROVEMENTS TO INTERSTATE ROUTE 195**  
**INTERIM SHORING**  
**SOUTH WATER STREET** PROVIDENCE RHODE ISLAND  
**UNDERDECK SHORING DETAILS** 5A



**ELASTOMERIC BEARING PAD**  
 SCALE: 3"=1'-0"

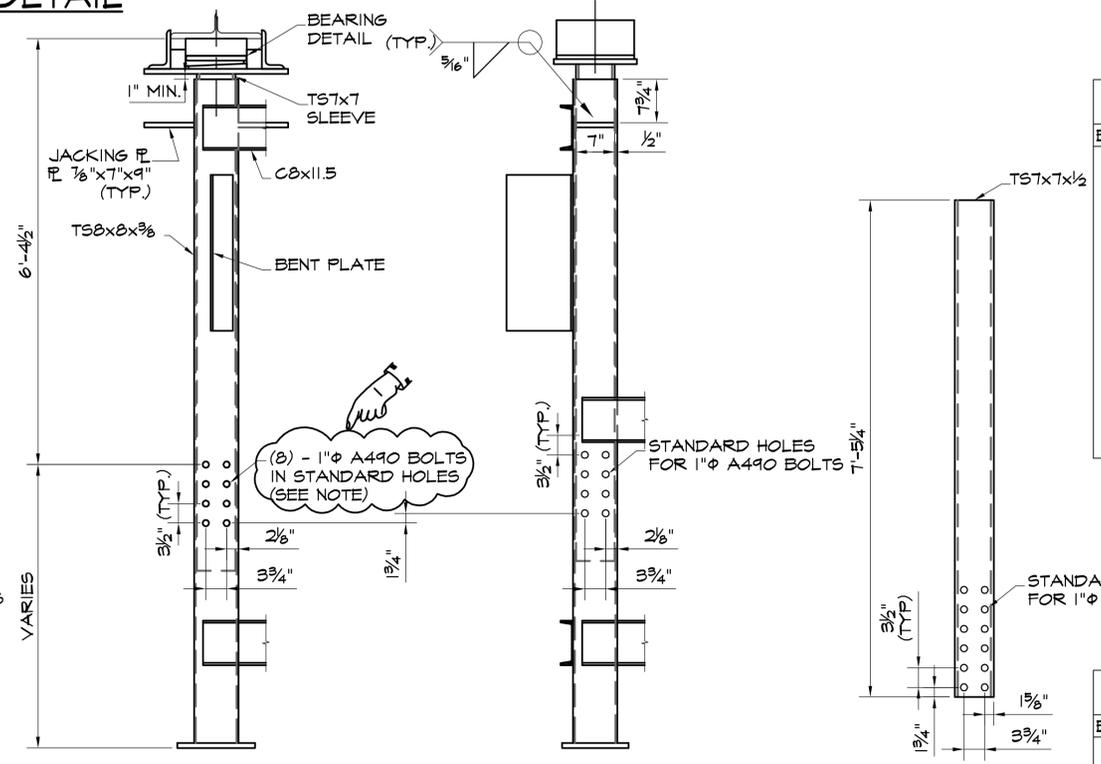
**PLAN**  
 SCALE: 3"=1'-0"

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

**BEARING DETAIL**

**NOTE:**

BOLTS ARE TO BE PROVIDED IN THE NORTH-SOUTH HOLES ONLY, AND INSTALLED TO 'SNUG-FIT' CONDITION IN ACCORDANCE WITH THE LATEST REVISION OF 'SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A440 BOLTS.' EIGHT (8) BOLTS W/ NUTS AND WASHERS SHALL BE PROVIDED AT EACH CONNECTION. THE BOLTS SHALL NOT BE OVERTIGHTENED THEREBY PREVENTING POSSIBLE FUTURE ADJUSTMENT OF THE INNER SLEEVE. THE T5T7 SLEEVE SHALL INITIALLY BE SET TO THE LOWEST POSITION, THEN THE BEARING SHALL BE SHIMMED. IF FUTURE SETTLEMENT OCCURS THE BOLTS SHALL BE REMOVED AND DISPOSED OF. THE SLEEVES SHALL THEN BE ADJUSTED BY JACKS SUPPORTED ON THE JACKING PLATES AND NEW BOLTS INSTALLED AND THE BEARING SHIMMED AS REQUIRED. THE FUTURE ADJUSTMENT OF THE INNER SLEEVE IS NOT INCLUDED IN THIS CONTRACT.



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

**DETAIL 2**  
 SCALE: 3/4"=1'-0"

**TYPE A SHORING SCHEDULE**

BRIDGE NO.	PIER	GIRDER	SPAN	T.O. FTG.	B.O. BM
524	D7	G1	6 # 7	3.00	19.22
	D7	G2	6 # 7	3.00	19.32
	D8	G1	7 # 8	3.00	21.48
	D8	G2	7 # 8	3.00	21.58
	D9	G1	8 # 9	3.00	23.02
	D9	G2	8 # 9	3.00	23.31
	D10	G1	9 # 10	7.00	24.69
	D10	G2	9 # 10	7.00	25.07
	D11	G1	10 # 11	7.50	26.44
	D11	G2	10 # 11	7.50	26.80
	D11	G3	10 # 11	7.50	27.12
	D12	G1	11 # 12	7.50	28.42
D12	G2	11 # 12	7.50	28.58	
D12	G3	11 # 12	7.50	28.68	

**TYPE C SHORING SCHEDULE**

BRIDGE NO.	PIER	GIRDER	SPAN	T.O. FTG.	B.O. BM
524	D3	G1	2 # 3	3.50	9.97
	D3	G2	2 # 3	3.50	10.08
	D3	G3	2 # 3	3.50	10.22
	D5	G1	4 # 5	3.50	14.12
	D5	G2	4 # 5	3.50	14.23
	D5	G3	4 # 5	3.50	14.36

**ADDENDUM NO. 3**

**Maguire Group Inc.**  
 Architects/Engineers/Planners  
 225 Chapman Street  
 Providence, Rhode Island 02905



**RHODE ISLAND**  
 DEPARTMENT OF TRANSPORTATION

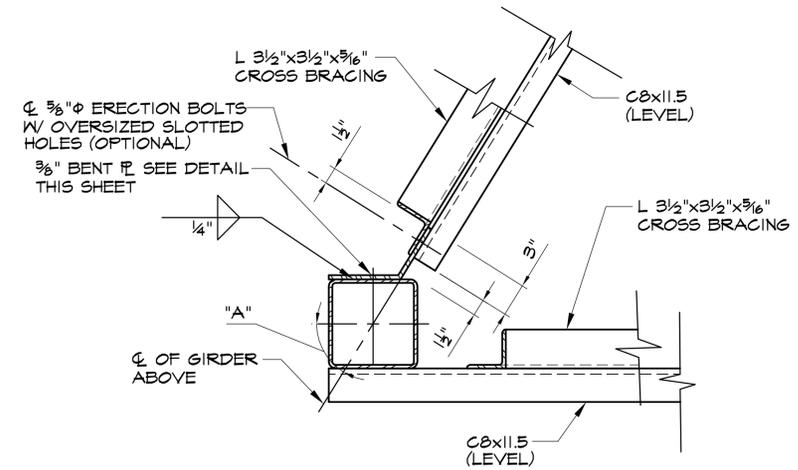


DESIGNED BY:  
 CHECKED:  
 DATE:  
 SHEET: 006  
 OF: 018

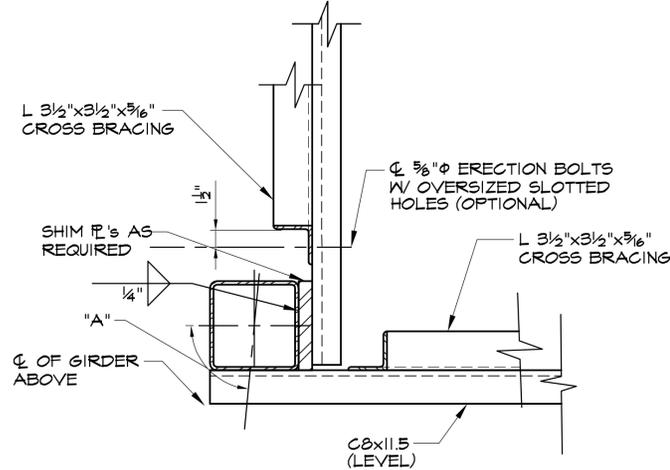
SCALE: AS SHOWN

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	7/14/06	MJW			

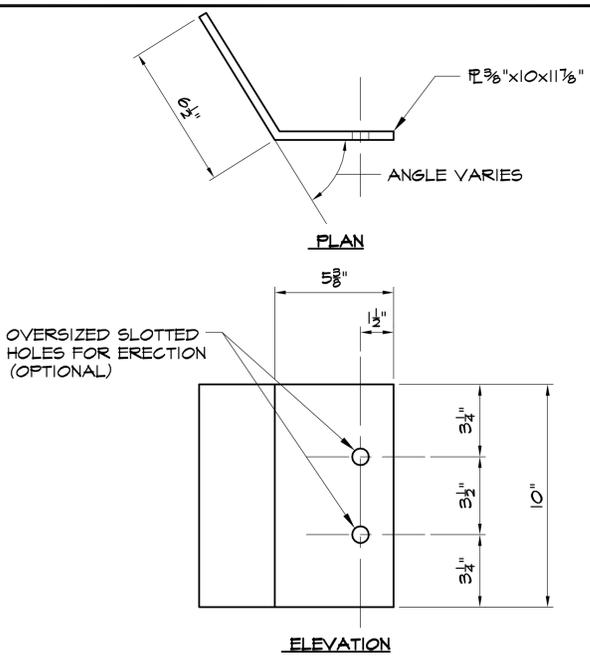
**IMPROVEMENTS TO INTERSTATE ROUTE 195**  
 INTERIM SHORING  
 SOUTH WATER STREET  
 PROVIDENCE RHODE ISLAND  
**SHORING TYPE A & TYPE C SCHEDULES**  
 BEARING DETAILS  
 6



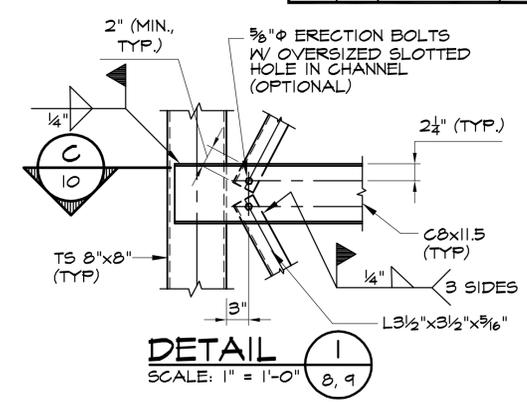
(WHEN A < 85° OR A > 95°)  
**SECTION C**  
 SCALE: 1 1/2" = 1'-0" 9, 10



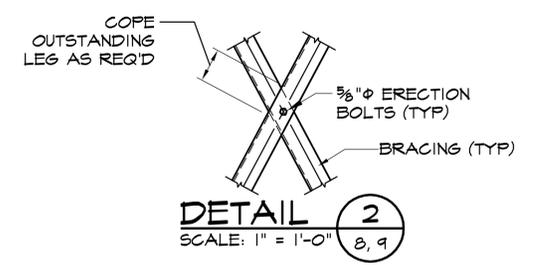
(WHEN A > 85° AND A < 95°)  
**SECTION C**  
 SCALE: 1 1/2" = 1'-0" 9, 10



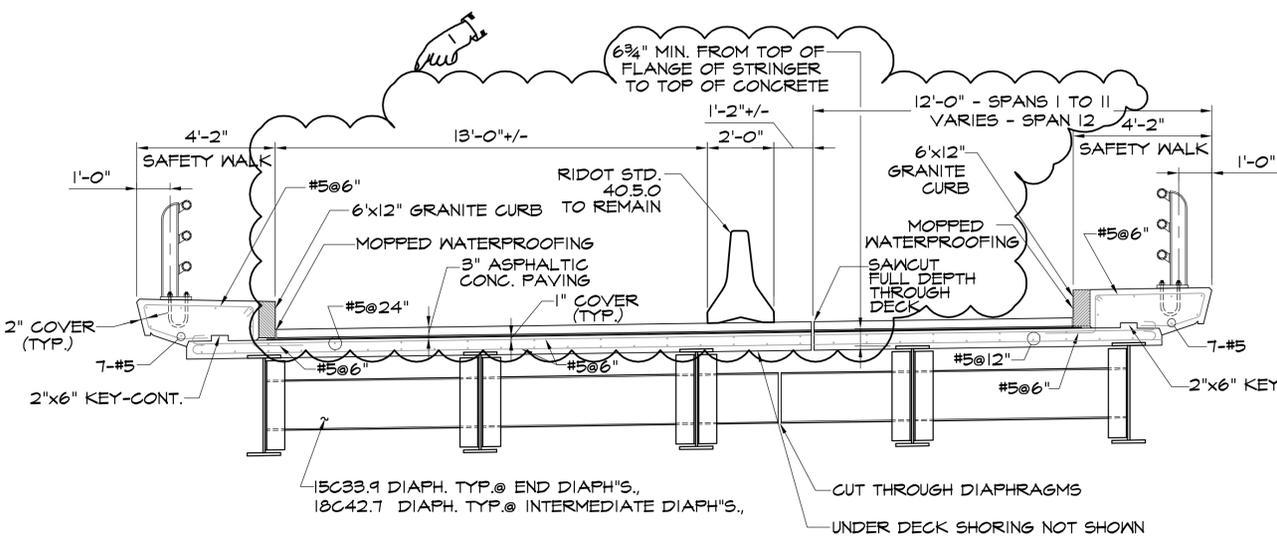
**BENT PLATE DETAIL**  
 SCALE: 3" = 1'-0"



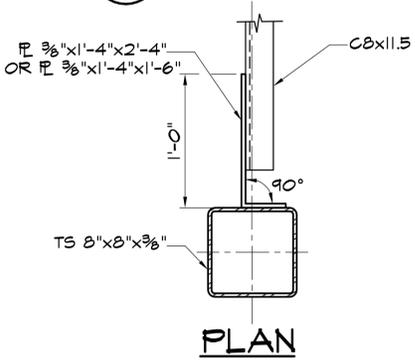
**DETAIL 1**  
 SCALE: 1" = 1'-0" 8, 9



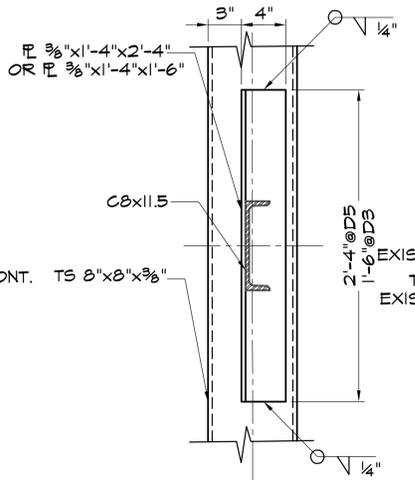
**DETAIL 2**  
 SCALE: 1" = 1'-0" 8, 9



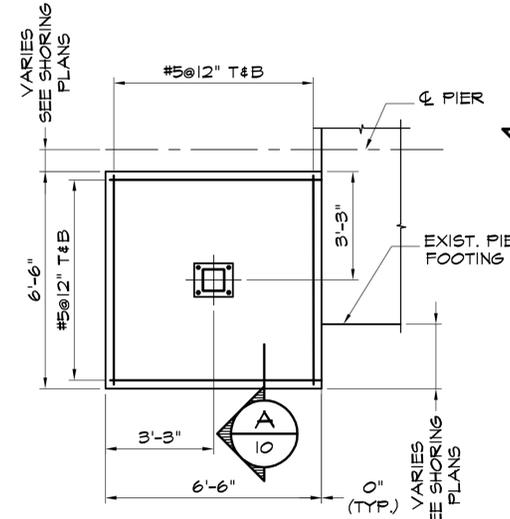
**SECTION A**  
 SCALE: 3/8" = 1'-0" 4, 5



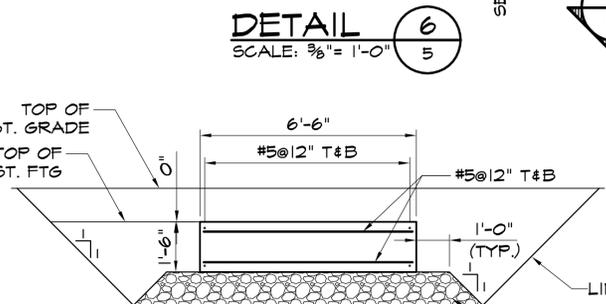
**PLAN**



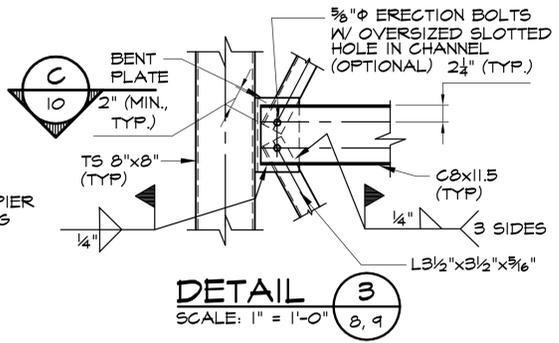
**DETAIL 5**  
 SCALE: 1 1/2" = 1'-0" 8, 9



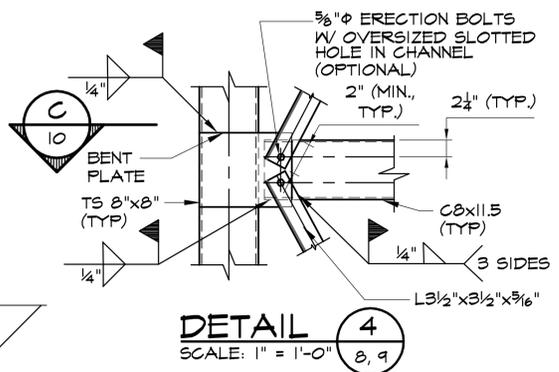
**DETAIL 6**  
 SCALE: 3/8" = 1'-0" 5



**SECTION A**  
 SCALE: 3/8" = 1'-0" 10



**DETAIL 3**  
 SCALE: 1" = 1'-0" 8, 9



**DETAIL 4**  
 SCALE: 1" = 1'-0" 8, 9

**ADDENDUM NO. 3**

**Maguire Group Inc.**  
 Architects/Engineers/Planners  
 225 Chapman Street  
 Providence, Rhode Island 02905



**RHODE ISLAND**  
 DEPARTMENT OF TRANSPORTATION



DESIGNED BY:  
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 DATE:  
 SHEET: 010  
 OF: 018

SCALE: AS NOTED					
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	7/14/06	MJW			

**IMPROVEMENTS TO INTERSTATE ROUTE 195**  
 INTERIM SHORING  
 SOUTH WATER STREET  
 PROVIDENCE RHODE ISLAND  
 TYPICAL GIRDER SHORING DETAILS  
 2 10

**GENERAL NOTES**

MAINTENANCE AND PROTECTION OF TRAFFIC FOR INSTALLATION OF GIRDER SHORING

1. THE CONTRACTOR IS ADVISED THAT THE SIGNS AND OTHER TRAFFIC CONTROL DEVICES SHOWN ON THE TRAFFIC CONTROL PLANS ARE REQUIRED FOR THIS WORK, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUPPLEMENT THESE AS DIRECTED BY THE ENGINEER TO AUGMENT THE PUBLIC'S SAFETY. ALL TRAFFIC CONTROL DEVICES SHALL BE IN PLACE AND APPROVED BY THE ENGINEER PRIOR TO STARTING CONSTRUCTION AT A PARTICULAR LOCATION. ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2003 EDITION.
2. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE ENGINEER ONE WEEK PRIOR TO THE CLOSING OF ANY ROADWAY OR SIDEWALK.
3. ALL EXISTING TRAVEL LANES AND SIDEWALKS SHALL BE OPEN TO TRAFFIC WHENEVER CONSTRUCTION IS NOT TAKING PLACE. SAFE ACCESS AND EGRESS TO SIDE STREETS AND ALL RESIDENTIAL AND COMMERCIAL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
4. ALL TEMPORARY CONSTRUCTION SIGNS SHALL BE REMOVED, COVERED OR OTHERWISE CONCEALED WHEN THEY ARE NOT NEEDED TO PROPERLY WARN DRIVERS AND/OR PEDESTRIANS. THIS INCLUDES THE PERIOD BETWEEN ERECTING SIGNS AND THE START OF OPERATIONS, AS WELL AS WHEN A PHASE IS COMPLETED OR SUSPENDED.
5. ALL TEMPORARY CONSTRUCTION SIGNS FOR TRAFFIC CONTROL ON CITY STREETS SHALL BE 36" BY 36" UNLESS OTHERWISE NOTED.

GENERAL

1. GIRDER SHORING SHALL BE COMPLETED BEFORE THE CONTRACTOR PERFORMS ANY WORK ON RAMP CR-1.
2. THE CONTRACTOR IS ADVISED THAT THE TOP OF FOOTING ELEVATIONS WHERE OBTAINED FROM ORIGINAL DESIGN PLANS THEREFORE ONE TEST HOLE SHALL BE DUG AT EACH PIER LOCATION PRIOR TO CONSTRUCTION TO VERIFY THE DISTANCE BETWEEN TOP OF FOOTING AND BOTTOM OF BEAM.
3. THE CONTRACTOR SHALL CHECK AND VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, BOTH UNDERGROUND AND OVERHEAD WITH DIG SAFE. ANY DAMAGE TO THE UTILITIES WHICH ARE DETAILED BY DIG SAFE AND/OR MARKED PRIOR TO CONSTRUCTION SHALL BE THE CONTRACTORS RESPONSIBILITY. COST TO REPAIR SUCH DAMAGE SHALL BE BORNE BY THE CONTRACTOR.
4. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTORS OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTORS EXPENSE.

**SYMBOLS**

MAINTENANCE AND PROTECTION OF TRAFFIC

- (26.1.0) TRAFFIC CONE RI. STD. 26.1.0.
  - (26.2.0) DRUM BARRICADE RI. STD. 26.2.0.
  - ▬ (40.5.0) PRECAST MEDIAN BARRIER w/REFLECTORIZED DELINEATORS FOR TEMPORARY OR PERMANENT TRAFFIC CONTROL RI. STD. 40.5.0.
  - TEMPORARY CONSTRUCTION SIGN
  - SIGN NUMBER (IF SHOWN)
  - TEMPORARY CONSTRUCTION SIGN DESIGNATION
  - ▨ WORK AREA
  - ▭ PORTABLE FLASHING BARRICADE
  - ∞ SHOCK ABSORBING BARRIER MODULES
  - ▬ FLAG PERSON
  - ➔ DIRECTION OF TRAVEL
- 700 1400 1400 1400 1400  
WEIGHT (IN POUNDS) OF SAND, TYPICAL

GENERAL

- ▬ SAWCUT AND MATCH LINE
- ▭ BALED HAY EROSION CHECK/SILT FENCE

LEGEND

GENERAL

- (BPD) REMOVE AND DISPOSE PAVEMENT STRUCTURE. REPLACE WITH BIT. CONC. SURFACE COURSE AND CONCRETE BASE
- (ETP) FURNISH AND INSTALL GUARDRAIL EXTRUDER TERMINAL (ET-PLUS)
- (FCA) ADJUST FRAME AND COVER TO GRADE. SUPPORT AND PROTECT STRUCTURE DURING CONSTRUCTION
- (FP) FLAG PERSON
- (GCD) REMOVE AND DISPOSE GRANITE CURB
- (GCR) REMOVE, STOCKPILE AND RESET GRANITE CURB
- (GRD) REMOVE AND DISPOSE METAL GUARDRAIL
- (SAB) SHOCK ABSORBING BARRIER MODULE
- (9.3.0) BALED HAY EROSION CHECK/SILT FENCE, RI STD. 9.3.0
- (34.2.0) FURNISH AND INSTALL STEEL BEAM GUARDRAIL, RI STD. 34.2.0
- (34.3.4) FURNISH AND INSTALL GUARDRAIL END SECTION, RI STD. 34.3.4
- (40.2.0) FURNISH AND INSTALL SINGLE FACE PRECAST CONCRETE BARRIER, RI STD. 40.2.0
- (CH) 12" WHITE CHEVRON (EPOXY RESIN)
- (SW) 4" SOLID WHITE EDGE LINE (EPOXY RESIN)
- (SY) 4" SOLID YELLOW EDGE LINE (EPOXY RESIN)

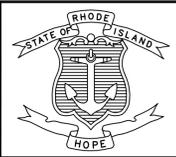
**SIGN LEGEND**

ID NUMBER	SIZE OF SIGN		TEXT	TEXT DIMS. (IN.)		
	WIDTH	HEIGHT		LETTER HGT.	VERT. SPACE	ARROW RTE. MKR.
W3-4	36"	36"	BE PREPARED TO STOP		REFER TO MUTCD STANDARDS	
W5-4	36"	36"	RAMP NARROWS			
W20-1	36"	36"	ROAD WORK AHEAD			
W20-7a	36"	36"	(Pedestrian symbol)			
SP-1	48"	24"	SIDEWALK CLOSED			
SP-1A	48"	24"	SIDEWALK CLOSED AHEAD			
X-1			EAST PROVIDENCE POINT ST BRIDGE WICKENDEN ST		EXISTING SIGN (TO REMAIN)	

ADDENDUM NO. 3

**Maguire Group Inc.**  
Architects/Engineers/Planners  
225 Chapman Street  
Providence, Rhode Island 02905

**UIC** *United International Corporation*  
Civil Engineers and Surveyors  
142 Putnam Avenue, Johnston, RI 02919  
401-233-2993



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



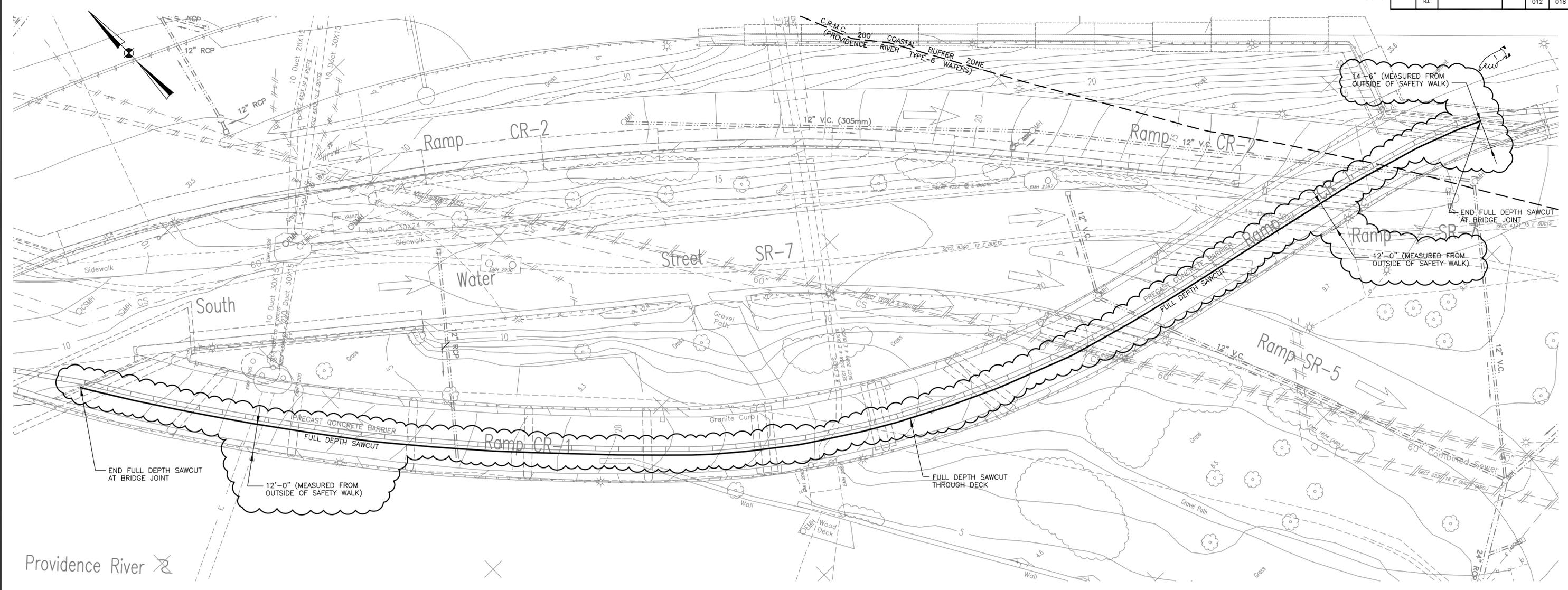
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SHEET:	011		
OF:	018		

**IMPROVEMENTS TO INTERSTATE ROUTE 195**  
**INTERIM SHORING**  
**SOUTH WATER STREET ON RAMP**

PROVIDENCE RHODE ISLAND

**HIGHWAY LEGEND AND GENERAL NOTES**

11



- NOTES:**
- GIRDER SHORING SHALL BE COMPLETED BEFORE ANY WORK IS DONE ON RAMP CR-1.
  - FULL DEPTH SAWCUT SHALL BE DONE AFTER CONCRETE BARRIER IS IN PLACE.
  - FOR WORK ON RAMPS CR-2, SR-5 AND SR-7, (BELOW BRIDGE) SEE "GENERAL PLAN NO. 2".

ADDENDUM NO. 3

**Maguire Group Inc.**  
 Architects/Engineers/Planners  
 225 Chapman Street  
 Providence, Rhode Island 02905

**UIC** *United International Corporation*  
 Civil Engineers and Surveyors  
 142 Putnam Avenue, Johnston, RI 02919  
 401-233-2993

**RHODE ISLAND**  
 DEPARTMENT OF TRANSPORTATION

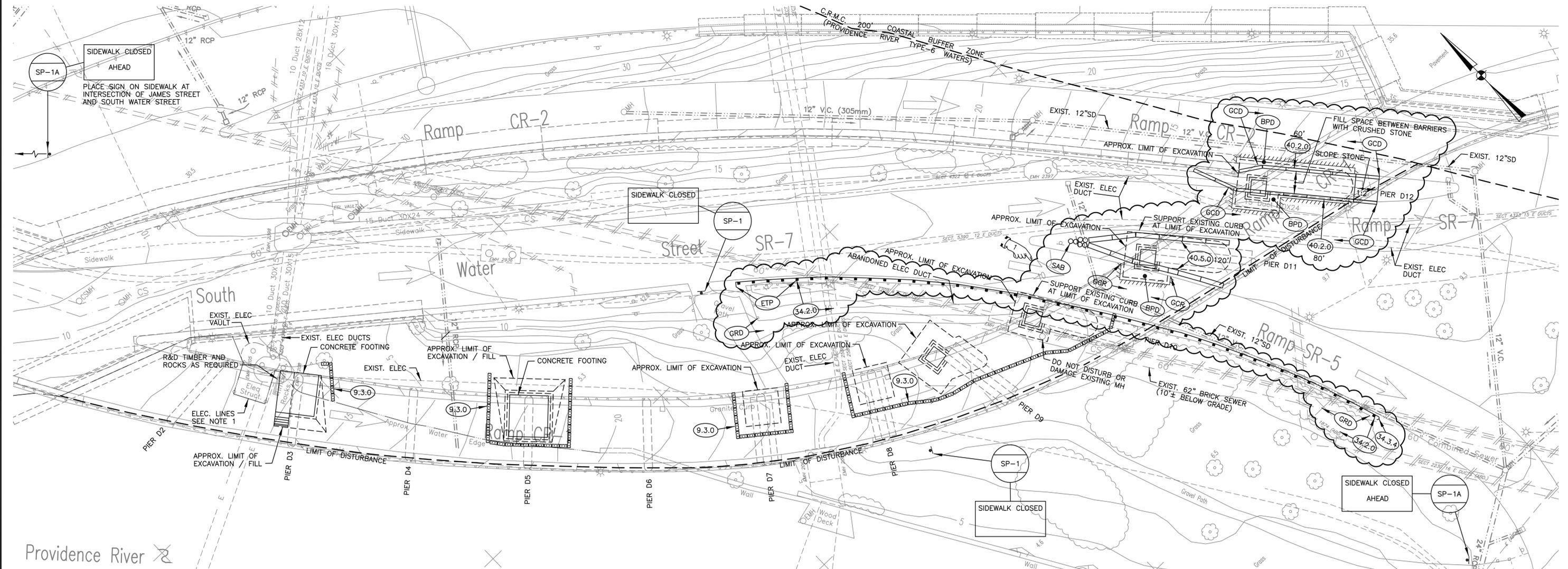



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CHECKED BY:	UIC		
DATE:	06-26-06		
SHEET:	012		
OF:	018		

**IMPROVEMENTS TO INTERSTATE ROUTE 195**  
 INTERIM SHORING  
 SOUTH WATER STREET ON RAMP

PROVIDENCE RHODE ISLAND

GENERAL PLAN NO. 1 12

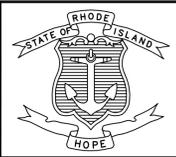


- NOTES:**
1. THE ELECTRIC STRUCTURE AT PIER D3 CONTAINS HIGH VOLTAGE POWER LINES PRIOR TO CROSSING THE PROVIDENCE RIVER. THESE POWER LINES ARE VISIBLE INSIDE THE OPEN WOODEN STRUCTURE. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN THIS AREA.
  2. FOR WORK ON RAMP CR-1, SEE "GENERAL PLAN NO. 1".
  3. PLACE SIGNS "SP-1, SP-1A" AS SHOWN WHEN PERFORMING WORK ON PIERS D7 AND D8.

ADDENDUM NO. 3

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 Architects/Engineers/Planners  
 225 Chapman Street  
 Providence, Rhode Island 02905

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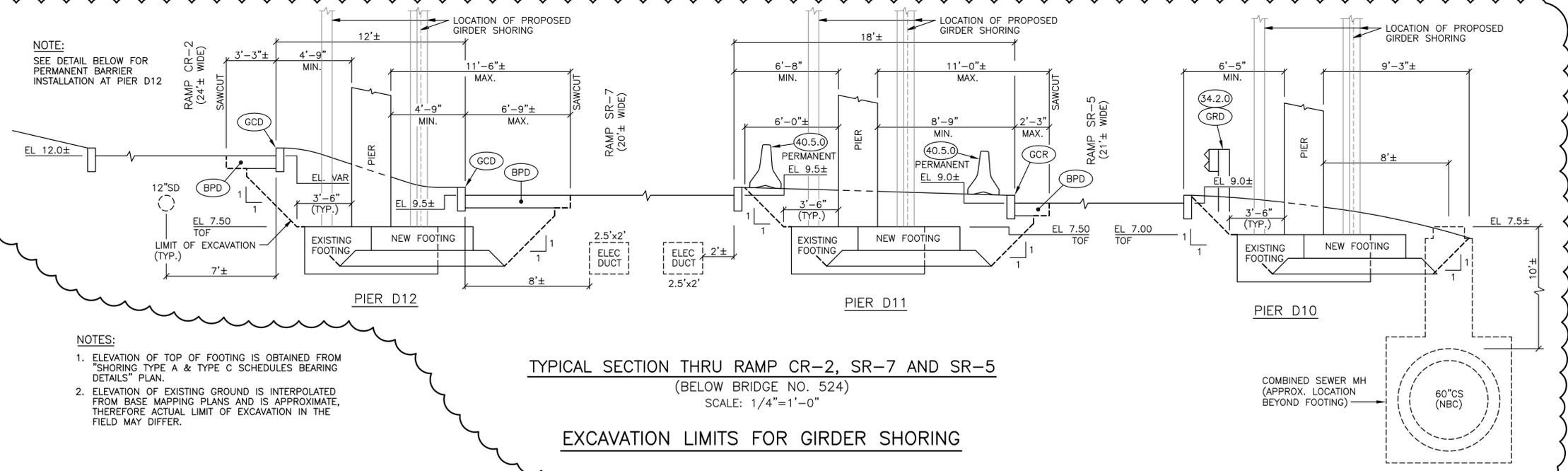
**RHODE ISLAND**  
 DEPARTMENT OF TRANSPORTATION



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DATE:	06-26-06		
SHEET:	013		
OF:	018		

IMPROVEMENTS TO INTERSTATE ROUTE 195 INTERIM SHORING SOUTH WATER STREET ON RAMP		PROVIDENCE	RHODE ISLAND
GENERAL PLAN NO. 2		13	

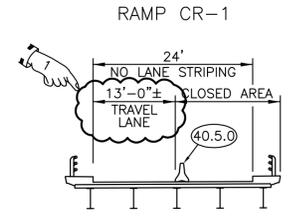
NOTE:  
 SEE DETAIL BELOW FOR  
 PERMANENT BARRIER  
 INSTALLATION AT PIER D12



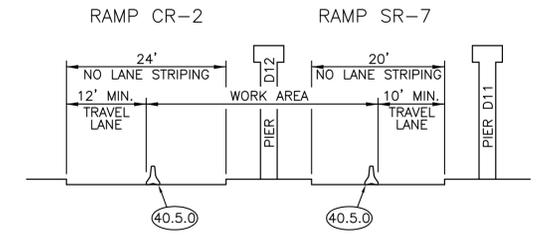
- NOTES:
- ELEVATION OF TOP OF FOOTING IS OBTAINED FROM "SHORING TYPE A & TYPE C SCHEDULES BEARING DETAILS" PLAN.
  - ELEVATION OF EXISTING GROUND IS INTERPOLATED FROM BASE MAPPING PLANS AND IS APPROXIMATE, THEREFORE ACTUAL LIMIT OF EXCAVATION IN THE FIELD MAY DIFFER.

TYPICAL SECTION THRU RAMP CR-2, SR-7 AND SR-5  
 (BELOW BRIDGE NO. 524)  
 SCALE: 1/4"=1'-0"

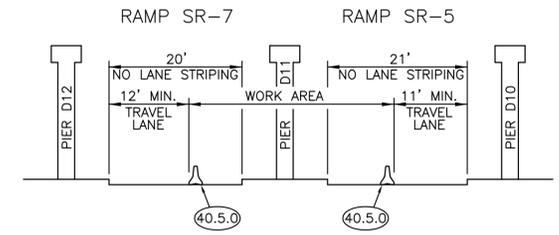
EXCAVATION LIMITS FOR GIRDER SHORING



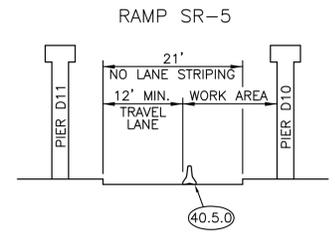
SECTION A-A



SECTION B-B



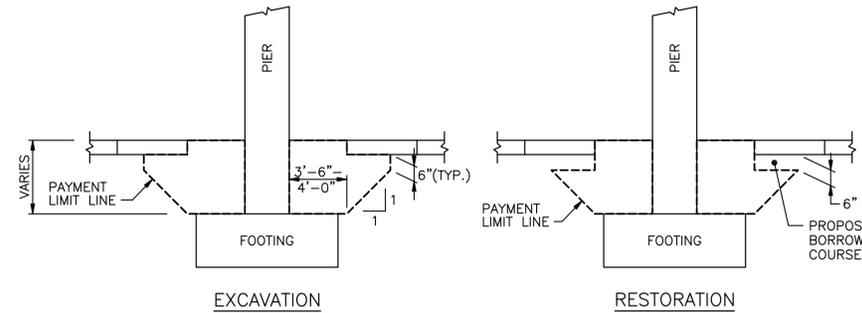
SECTION C-C



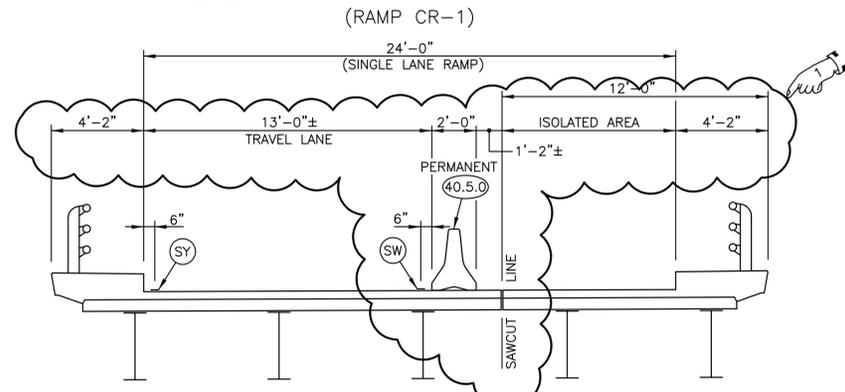
SECTION D-D

RAMP CR-1, CR-2, SR-7 AND SR-5  
 (BRIDGE NO. 524)  
 NOT TO SCALE

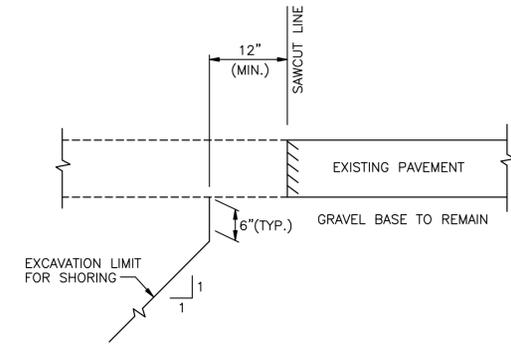
TRAFFIC CONTROL SECTIONS



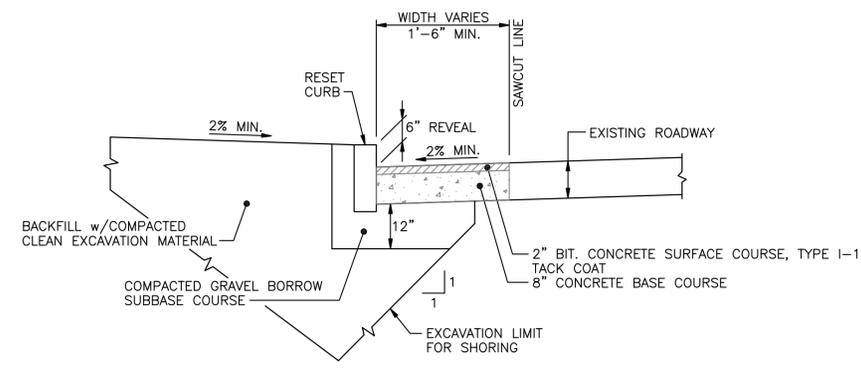
SHORING ITEM PAY LIMITS  
 NOT TO SCALE



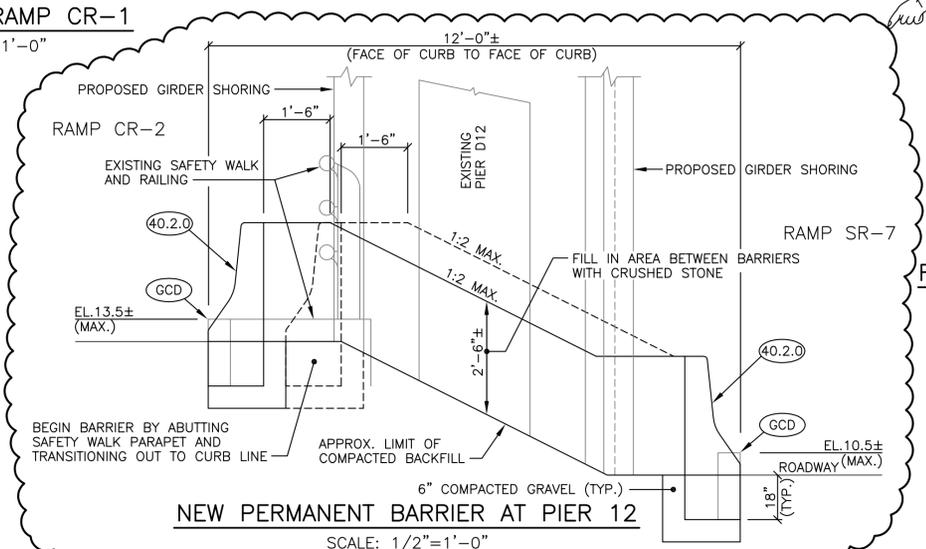
SECTION THRU RAMP CR-1  
 SCALE: 1/4"=1'-0"



PAVEMENT REMOVAL LIMITS  
 NOT TO SCALE



PAVEMENT RESTORATION  
 NOT TO SCALE

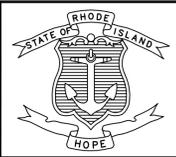


NEW PERMANENT BARRIER AT PIER 12  
 SCALE: 1/2"=1'-0"

ADDENDUM NO. 3

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 225 Chapman Street  
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 142 Putnam Avenue, Johnston, RI 02919  
 401-233-2993



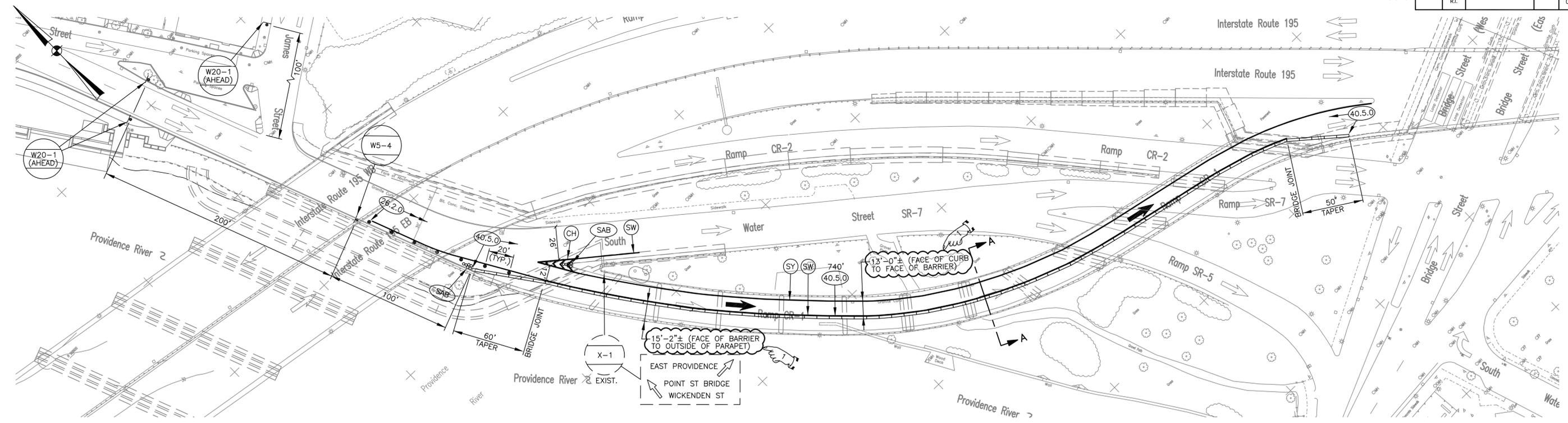
**RHODE ISLAND**  
 DEPARTMENT OF TRANSPORTATION



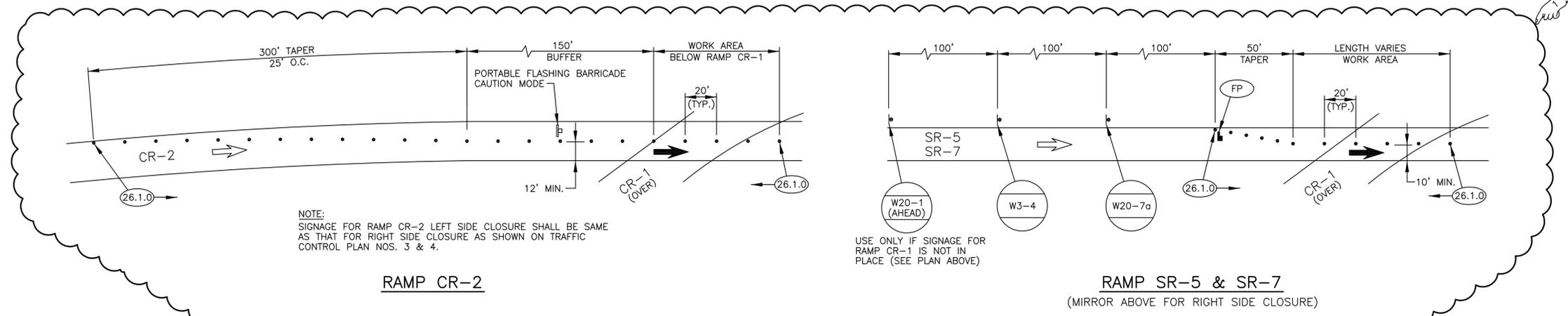
DESIGNED BY: UIC  
 CHECKED: UIC  
 DATE: 06-26-06  
 SHEET: 014  
 OF: 018

SCALE: AS SHOWN					
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	07/14/06	UIC			

**IMPROVEMENTS TO INTERSTATE ROUTE 195**  
 INTERIM SHORING  
 SOUTH WATER STREET ON RAMP  
 PROVIDENCE RHODE ISLAND  
**GENERAL DETAILS** 14



**PERMANENT RIGHT SIDE CLOSURE ON RAMP CR-1**



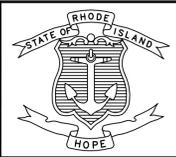
**TEMPORARY LEFT OR RIGHT SIDE RAMP CLOSURES**  
 (RAMP CR-2, SR-5 & SR-7)

NOTES:  
 1. SEE "GENERAL DETAILS" DRAWING FOR TRAFFIC CONTROL SECTION A-A.

ADDENDUM NO. 3

**Maguire Group Inc.**  
 Architects/Engineers/Planners  
 225 Chapman Street  
 Providence, Rhode Island 02905

**UIC** *United International Corporation*  
 Civil Engineers and Surveyors  
 142 Putnam Avenue, Johnston, RI 02919  
 401-233-2993



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

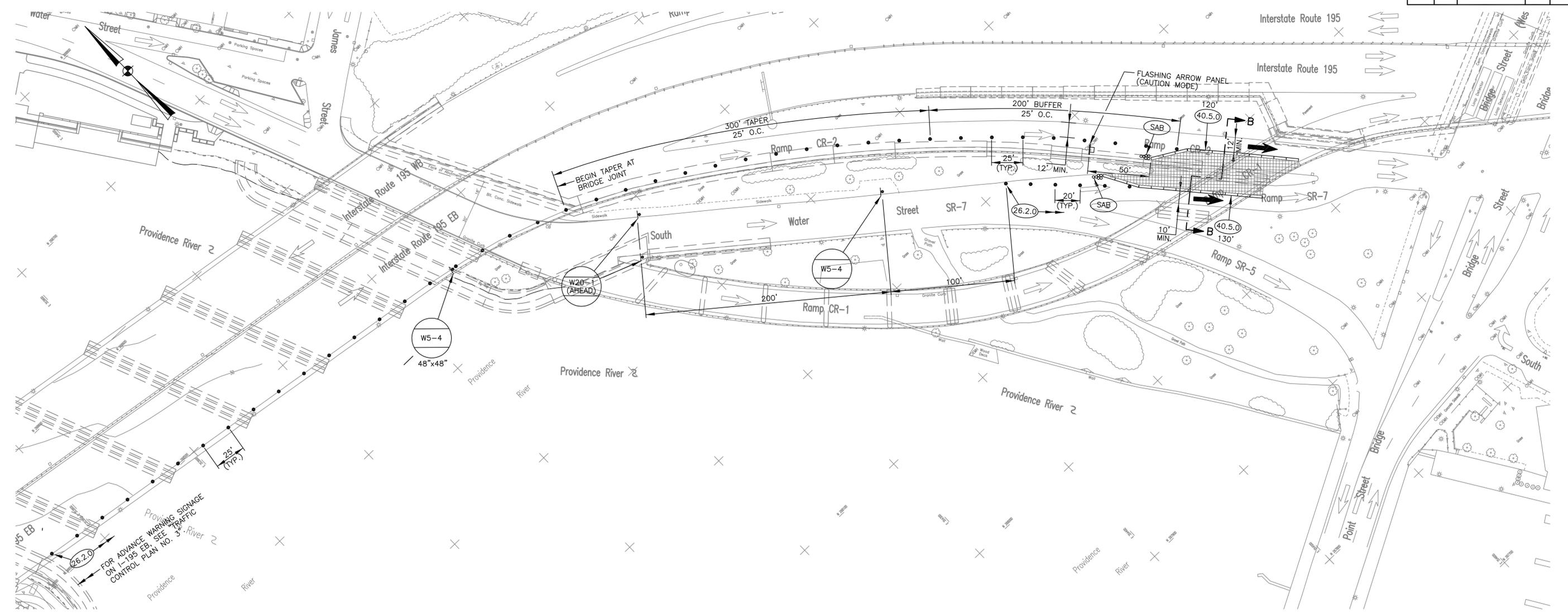


DESIGNED BY: UIC  
 CHECKED BY: UIC  
 DATE: 06-26-06  
 SHEET: 015  
 OF: 018

SCALE: 1" = 40'

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	07/14/06	UIC			

**IMPROVEMENTS TO INTERSTATE ROUTE 195**  
 INTERIM SHORING  
 SOUTH WATER STREET ON RAMP  
**PROVIDENCE** **RHODE ISLAND**  
**TRAFFIC CONTROL PLAN NO. 1**  
**RAMP CR-1** **15**



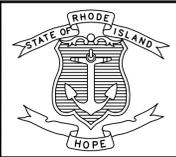
**RIGHT SIDE CLOSURE RAMP CR-2  
 LEFT SIDE CLOSURE RAMP SR-7  
 FOR INSTALLATION OF GIRDER SHORING UNDER PIER D12**

- NOTES:**
- SEE "GENERAL DETAILS" DRAWING FOR TRAFFIC CONTROL SECTION B-B.
  - THE TRAFFIC CONTROL SCHEME FOR RIGHT SIDE CLOSURE ON RAMP CR-2 SHALL REMAIN IN PLACE UNTIL ALL WORK IS COMPLETED ON THE UNDERSIDE OF RAMP CR-1 AT THAT LOCATION.

ADDENDUM NO. 3

**Maguire Group Inc.**  
 Architects/Engineers/Planners  
 225 Chapman Street  
 Providence, Rhode Island 02905

**UIC** *United International Corporation*  
 Civil Engineers and Surveyors  
 142 Putnam Avenue, Johnston, RI 02919  
 401-233-2993



**RHODE ISLAND  
 DEPARTMENT OF TRANSPORTATION**



DESIGNED BY: UIC  
 CHECKED: UIC  
 DATE: 06-26-06  
 SHEET: 018  
 OF: 018

SCALE: 1" = 40'

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	07/14/06	UIC			

**IMPROVEMENTS TO INTERSTATE ROUTE 195  
 INTERIM SHORING  
 SOUTH WATER STREET ON RAMP**

PROVIDENCE RHODE ISLAND

**TRAFFIC CONTROL PLAN NO. 4  
 RAMP CR-2 AND SR-7**

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