

October 12, 2016

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID NO. 7550983

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO.2016-CH-055

FEDERAL-AID PROJECT NO. FAP Nos: STPG-0202(134)

Pedestrian and Intersection Safety Improvements w/ Albion Beacon - STC

Statewide

CITY/TOWN OF Bristol, Providence, Warwick, Barrington, Johnston, Narragansett, West Warwick

COUNTY OF BRISTOL, PROVIDENCE, KENT, WASHINGTON

NOTICE TO PROSPECTIVE BIDDERS

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

A. Specification Change/Addition

1. General Provisions – Contract Specific – Page CS-7

Delete Page CS-7 in its entirety and replace it with Page CS-7 (R-1) attached to this Addendum No.

1. The Verizon coordination information has been added and the National Grid coordination information has been revised.

2. General Provisions – Contract Specific – Page CS-7a

Insert new page 7a attached to this Addendum No. 1. Section 3 has been revised.

3. General Provisions – Contract Specific – APPENDIX G

Add the three pages attached to this Addendum No. 1. National Grid details have been added.

4. Pages JS-20 and JS-21

Delete Pages JS-20 and JS-21 in their entirety and replace with Pages JS-20 (R-1) and JS-21 (R-1) attached to this Addendum No. 1. The Milling the Pavement subsection and the Submittal section has been revised.

B. Distribution of Quantities

1. Index

Delete Index Pages 1 through 4 in their entirety and replace with Index Pages 1 (R-1) through 4 (R-1) attached to this Addendum No. 1. The revised and new item codes have been highlighted.

2. Page 1
Delete Page 1 in its entirety and replace with Page 1 (R-1) attached to this Addendum No. 1. The quantities for Item Code 201.0401 have been revised.
3. Page 4
Delete Page 4 in its entirety and replace with Page 4 (R-1) attached to this Addendum No. 1. The quantities for Item Code 201.0403 have been revised.
4. Pages 7 through 9
Delete Pages 7 through 9 in their entirety and replace with Pages 7 (R-1) through 9 (R-1) attached to this Addendum No. 1. The quantities for Item Codes 201.9902 and 201.9904 have been revised.
5. Page 11
Delete Page 11 in its entirety and replace with Page 11 (R-1) attached to this Addendum No. 1. The quantities for Item Code 202.0100 have been revised.
6. Page 13
Delete Page 13 in its entirety and replace with Page 13 (R-1) attached to this Addendum No. 1. The quantities for Item Code 204.0100 have been revised.
7. Pages 15 and 16
Delete Pages 15 and 16 in their entirety and replace with Page 15 (R-1) and 16 (R-1) attached to this Addendum No. 1. The quantities for Item Code 302.0100 have been revised.
8. Page 19
Delete Page 19 in its entirety and replace with Page 19 (R-1) attached to this Addendum No. 1. The quantities for Item Code 601.0200 have been removed and replaced with Item Code 501.9901.
9. Pages 21 and 22
Delete Pages 21 and 22 in their entirety and replace with Pages 21 (R-1) and 22 (R-1) attached to this Addendum No. 1. The quantities for Item Code 601.0300 have been revised. The quantities for Item Code 707.0950 have been deleted.
10. Pages 26 through 30
Delete Pages 26 through 30 in their entirety and replace with Pages 26 (R-1) and 30 (R-1) attached to this Addendum No. 1. The quantities for Item Codes 905.0110, 906.0110, 906.0120, 906.0130, and 906.0210 have been revised.
11. Page 32
Delete Page 32 in its entirety and replace with Page 32 (R-1) attached to this Addendum No. 1. The quantities for Item Code 906.0250 and 906.0262 have been revised.
12. Page 45
Delete Page 45 in its entirety and replace with Page 45 (R-1) attached to this Addendum No. 1. The quantities for Item Code L08.0104 have been removed.
13. Pages 48 through 50
Delete Pages 48 through 50 in their entirety and replace with Page 48 (R-1) through 50 (R-1) attached to this Addendum No. 1. The quantities for Item Codes T06.2020 and T06.6020 have been revised.

14. Page 67

Delete Page 67 in its entirety and replace with Page 67 (R-1) attached to this Addendum No. 1. Item Codes 501.9901, 712.0100, and 712.0200 have been added.

C. Drawings/Plans - Change/Addition

1. SHEET NO. 11 – GENERAL AND LOCATION PLAN NO. 2

Delete Sheet No. 11 – General and Location Plan No. 2 in its entirety and replace it with Sheet No. 11 – General and Location Plan No. 2 (R-1) attached to this Addendum No. 1. Signs and callouts have been added.

2. SHEET NO. 13 – GENERAL AND LOCATION PLAN NO. 4

Delete Sheet No. 13 – General and Location Plan No. 4 in its entirety and replace it with Sheet No. 13 – General and Location Plan No. 4 (R-1) attached to this Addendum No. 1. Signs and callouts have been added. General Note No. 10 has been revised.

3. SHEET NO. 16 – TRAFFIC SIGNAL PLAN NO. 1

Delete Sheet No. 16 – Traffic Signal Plan No. 1 in its entirety and replace it with Sheet No. 16 – Traffic Signal Plan No. 1 (R-1) attached to this Addendum No. 1. The Sequence and Timing Diagram has been updated.

4. SHEET NO. 17 – GENERAL AND LOCATION PLAN NO. 7

Delete Sheet No. 17 – General and Location Plan No. 7 in its entirety and replace it with Sheet No. 17 – General and Location Plan No. 7 (R-1) attached to this Addendum No. 1. Signs and callouts have been added.

5. SHEET NO. 19 – GENERAL PLAN NO. 9

Delete Sheet No. 19 – General Plan No. 9 in its entirety and replace it with Sheet No. 19 – General Plan No. 9 (R-1) attached to this Addendum No. 1. A striping callout has been revised.

6. SHEET NO. 25 – GENERAL AND LOCATION PLAN NO. 14

Delete Sheet No. 25 – General and Location Plan No. 14 in its entirety and replace it with Sheet No. 25 – General and Location Plan No. 14 (R-1) attached to this Addendum No. 1. A callout for adjusting a telecommunication manhole has been added.

7. SHEET NO. 27 – TRAFFIC SIGNAL PLAN NO. 2

Delete Sheet No. 27 – Traffic Signal Plan No. 2 in its entirety and replace it with Sheet No. 27 – Traffic Signal Plan No. 2 (R-1) attached to this Addendum No. 1. The Sequence and Timing Diagram has been updated.

8. SHEET NO. 32 – GENERAL AND LOCATION PLAN NO. 20

Delete Sheet No. 32 – General and Location Plan No. 20 in its entirety and replace it with Sheet No. 32 – General and Location Plan No. 20 (R-1) attached to this Addendum No. 1. A callout for granite curb at the southwest curb ramp has been added.

D. Proposal Change/Addition

1. Page P-23

Delete Page P-23 in its entirety and replace it with Page P-23 (R-1) attached to this Addendum No. 1. The date for Addendum No. 1 has been added.

ADDENDUM NO. 1


RI Department of Transportation *FR*
Administrator, Division of Project Management

ATTACHMENTS

Z. Mr. Mike Gagnon
Director
Lincoln Department of Public Works
100 Old River Road
Lincoln, RI 02865
(401) 333-8430

AA. Mr. Romeo Mendes, PE
Superintendent
Lincoln Water Commission
96 Old River Road
Lincoln, RI 02865
(401) 334-6735

The following utility involvement is anticipated:

The Contractor shall contact Verizon (Peter DeCosta (508) 944-6701) to adjust the telephone manholes on Warwick Avenue. The Contractor shall give Verizon two (2) weeks notice. Verizon personnel and their contractor will perform the adjustments of the manhole through their internal general maintenance work order.

The Contractor shall adjust all gas boxes and cathodic protection boxes (boxes that contain wires that go down to the gas main) to the final grade of the sidewalk/roadway. New gas gate boxes, if needed, can be obtained at the National Grid Dexter Street facility at 477 Dexter Street, Providence, RI. The type of gas gate box required should be confirmed in the field. There will be no payment required for the gas gates. The new gas gates shall be installed and paid for under Item Code 712.0200. Care shall be exercised when adjusting the cathodic protection boxes so as not to damage the wires. If the wires are damaged or if assistance is needed, contact National Grid corrosion engineer to visit the site. Contact Asad Akinfolarin at 401-215-5678 or Ron Vincent at 617-438-5192. New cathodic protection boxes, if required, can be obtained at National Grid's Providence facility, 477 Dexter Street, Providence, RI or National Grid's Lincoln facility, 642 George Washington Highway, Lincoln, RI.

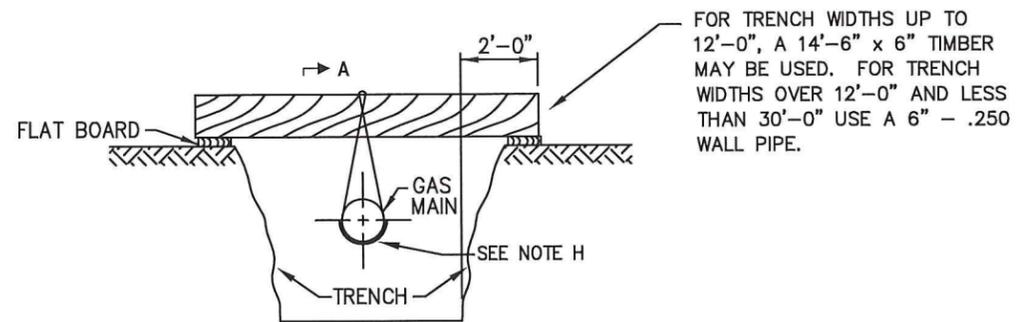
If a gas main is exposed or going to be exposed call National Grid Damage Prevention Department for an inspector to be dispatched to the site. Call David Soltys 401-623-0579 or Rick Lepage 401-948-8432. For a damaged gas facility call 800-870-1664.

Work around gas facilities shall be in accordance with the National Grid (Gas) guidelines: "Cast Iron Gas Main Encroachment Prevention," "Guidelines for Working Around Gas Utilities," "Guidelines For Backfill and Compaction Around Gas Pipes Permanent Backfill and Compaction," and "Guidelines for Working Around Corrosion Control System Components," found in Appendix G.

National Grid requires notification of construction work within 200 feet of a gas regulator station for safety monitoring during construction. Call National Grid I&R Supervisor George Maerkle at 401-595-8276 when digging within 200 feet of the regulator stations at the Hartford Avenue and Petteys Avenue intersection.

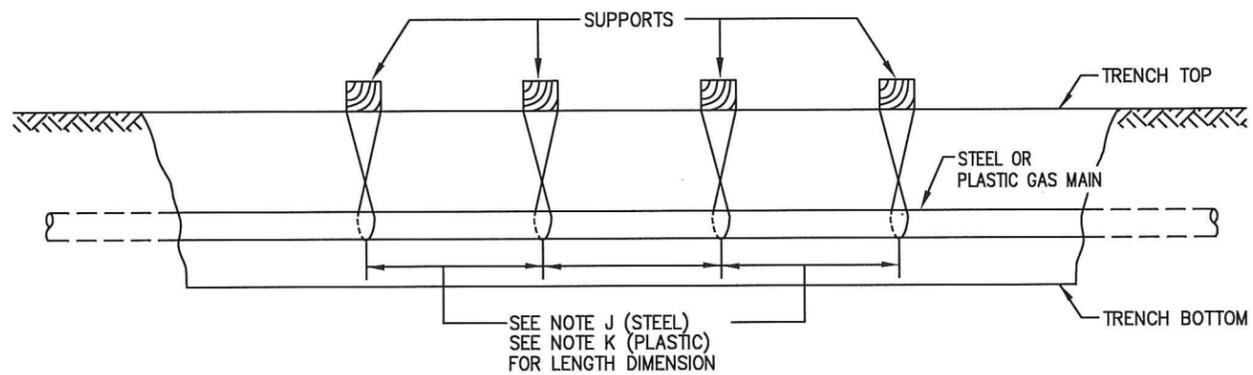
The replacement water gate boxes for any broken or damaged structures in the roadway, as directed by the Resident Engineer, shall be obtained and installed by the Contractor and will be paid under Item Code 712.0100.

The Lincoln Water Commission will be performing replacement work on their water main at the School Street location in Lincoln. Prior to commencing any work at this location, the Contractor shall coordinate with the Engineer to contact Romeo Mendes at Lincoln Water Commission no less than five working days



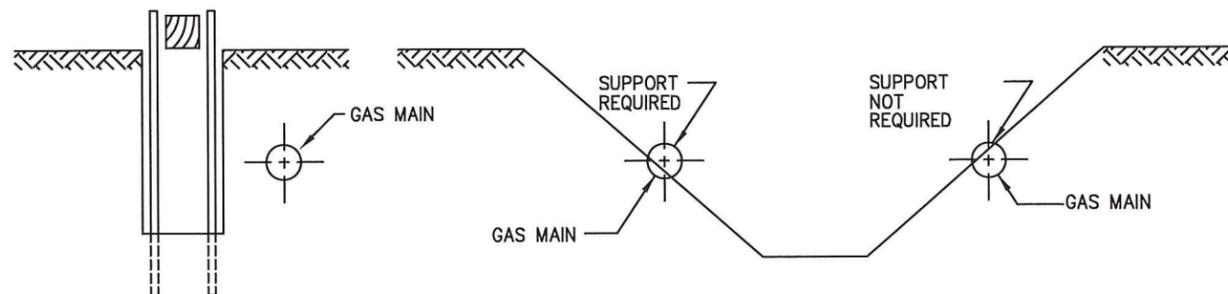
FOR TRENCH WIDTHS UP TO 12'-0", A 14'-6" x 6" TIMBER MAY BE USED. FOR TRENCH WIDTHS OVER 12'-0" AND LESS THAN 30'-0" USE A 6" - .250 WALL PIPE.

EXPOSED SUPPORT



SEE NOTE J (STEEL)
SEE NOTE K (PLASTIC)
FOR LENGTH DIMENSION

SUPPORTED LENGTH A-A



ADEQUATELY SHORED TRENCH

DETAIL A
SEE NOTE B

INADEQUATELY SHORED OR UNSHORED TRENCH

DETAIL B
SEE NOTE B

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LI-MA-NH-NYC

**SUPPORT REQUIREMENTS FOR
EXPOSED & UNDERMINED STEEL OR PLASTIC
GAS FACILITIES**

REVISIONS CLARIFIED NOTES B & C ADDED NOTE N.

DATE: 07/01/2003

DESIGN: A. GIULIANI

DRAWN: P. DIMAIO

EFFECTIVE DATE: 03/24/2006

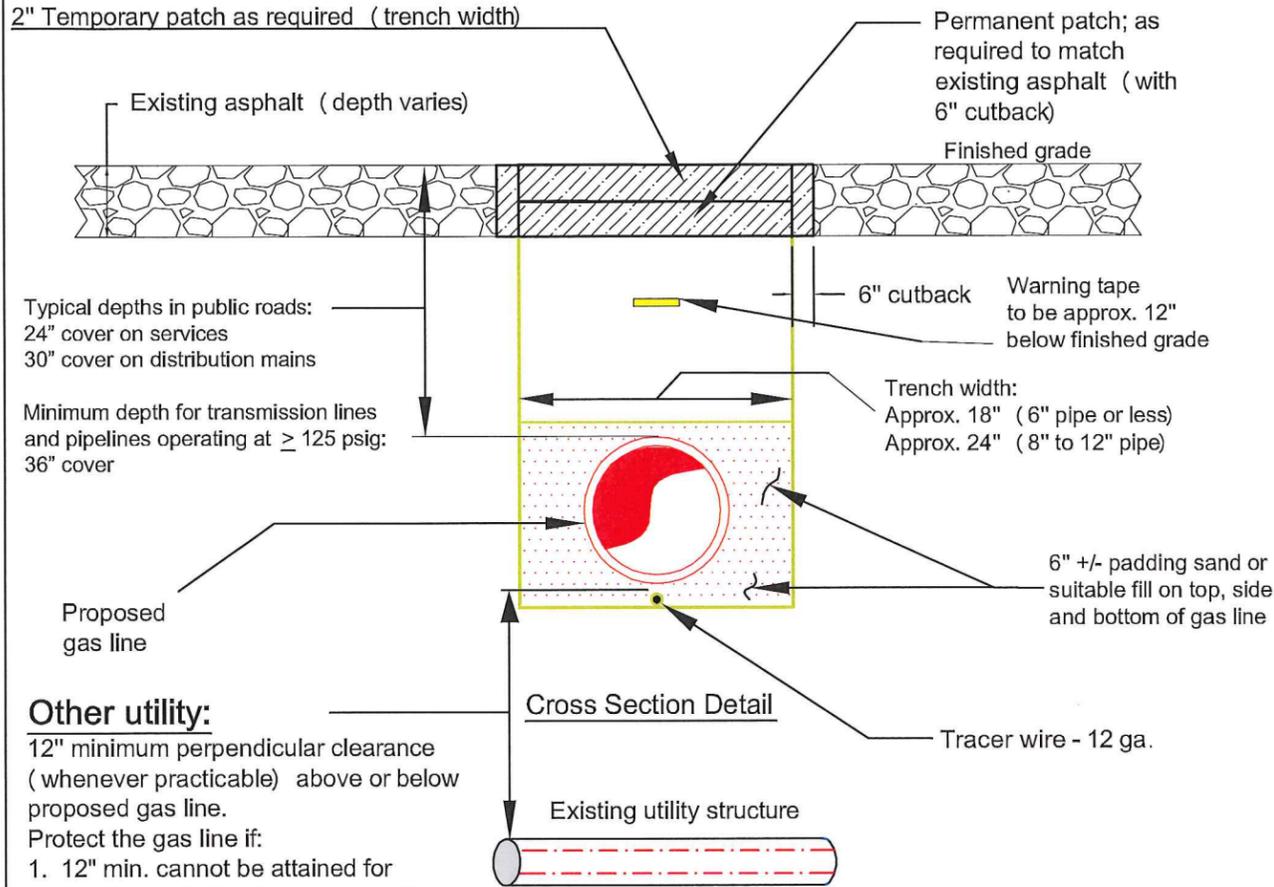
STD. DWG. NO. **CNST-6045**

NOTES:

- A. THIS CONSTRUCTION STANDARD SHALL BE USED TO SUPPORT PLASTIC OR STEEL GAS FACILITIES WHICH ARE UNDERMINED AND EXPOSED BY CONSTRUCTION ACTIVITY.
- B. IF AN EXCAVATION IS MADE AT ANY DISTANCE PARALLEL TO THE GAS FACILITY WITH ADEQUATE OSHA STRUCTURAL SHORING, AS SHOWN IN DETAIL "A", OR IF A STABLE SOIL CONDITION WITH SUFFICIENT COVER ABOVE THE PIPE'S CENTERLINE EXISTS, AS SHOWN IN DETAIL "B", THEN SUPPORTS ARE NOT REQUIRED. UNSTABLE SOIL IS DEFINED AS A SOIL WHICH CAN CAUSE "SOIL RUN OUT" FROM BENEATH THE PIPE (e.g., WASHOUT, SOFT CLAY, etc.) OR CAN SHIFT DUE TO CONSTRUCTION ACTIVITY, VIBRATIONS, etc.; AND CAUSE A SOIL SCENARIO TO OCCUR AS SHOWN IN DETAIL "B" TO REQUIRE PIPE SUPPORT.
- C. IF AN EXCAVATION CROSSES OR RUNS PARALLEL TO A GAS FACILITY, SUPPORTS MAY NOT BE REQUIRED IF THE EXPOSED SECTION OF PLASTIC PIPES IS 3' OR LESS AND STEEL PIPES 7' OR LESS.
- D. ALL EXCAVATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONE CALL DIG SAFE PROGRAM USING THE APPROPRIATE MARK OUT, TEST HOLES AND EXCAVATION TO AVOID DAMAGE TO PIPE OR PIPE COATINGS:
 - NEW YORK STATE CODE RULE 753
 - MA CHAPTER 82 - SECTION 40, GENERAL LAWS, REGULATING NOTICE REQUIREMENTS FOR EXCAVATION IN PUBLIC WAYS
 - NH DIG SAFE LAW, RSA 374 – REGULATING UNDERGROUND UTILITY DAMAGE PREVENTION SYSTEM
- E. USE OF THIS CONSTRUCTION STANDARD DOES NOT RELIEVE THE CONSTRUCTION AGENCY OR AUTHORITY OR THEIR RESPECTIVE CONTRACTORS OF RESPONSIBILITY FOR DAMAGES. ALL DAMAGES WILL BE REPAIRED IN ACCORDANCE WITH EXISTING STANDARDS AND THE APPROPRIATE PARTY SHALL BE BILLED FOR ALL EXPENSES.
- F. GAS FACILITIES SHOULD NOT BE UNDERMINED WITHOUT ADEQUATE SUPPORT (DETAIL A). ALL SUPPORT LINES SHALL BE TENSIONED SO THAT NO DEFLECTION WILL OCCUR WHEN THE FACILITY IS UNDERMINED. THIS TENSION SHALL BE CHECKED AT THE START AND END OF EACH DAY AND ADJUSTED AS NECESSARY.
- G. WHERE A COUPLING, GAS SERVICE, CLAMP, VALVE, DRIP LINE OR OTHER APPURTENANCE EXISTS ON THE EXPOSED SECTION OF MAIN, AN ADDITIONAL SUPPORT SHALL BE INSTALLED AT THE LOCATION.
- H. WHEN SUPPORTING AN EXPOSED FACILITY, THE PIPE COATING SHALL BE PROTECTED WITH ROCK SHIELD (ITEM ID 00301097), OR OTHER LIKE MATERIAL CUT TO A MINIMUM WIDTH OF ½ THE SUPPORTED PIPE DIAMETER. SUPPORT LINES SHALL BE A MINIMUM OF ¾" POLYPROPYLENE OR BETTER.
- I. SUPPORTS FOR GAS TRANSMISSION FACILITIES SHALL BE REVIEWED WITH GAS ENGINEERING PRIOR TO INSTALLATION.
- J. THE MAXIMUM SPACING BETWEEN SUPPORTS FOR STEEL FACILITIES SHALL BE AS FOLLOWS:
 - 7' SPACING FOR ¾" AND 1 ¼" STEEL
 - 10' SPACING FOR 2" STEEL
 - 15' SPACING FOR 3" AND 4" STEEL
 - 20' SPACING FOR 6" AND LARGER STEEL
- K. THE MAXIMUM SPACING BETWEEN SUPPORTS FOR PLASTIC FACILITIES SHALL BE AS FOLLOWS :
 - 3' SPACING FOR 2" AND SMALLER PLASTIC
 - 6' SPACING FOR 4" AND LARGER PLASTIC
- L. VIBRATING MACHINES ARE ALLOWED OVER STEEL OR PLASTIC FACILITIES WITH 24" OR GREATER COVER. HAND HELD MECHANICAL TAMPER IS ACCEPTABLE OVER ANY FACILITY WITH 12" OR GREATER COVER.
- M. WHEN CONSTRUCTION ACTIVITY IS COMPLETED, CLEAN FILL SHALL BE COMPACTED AROUND AND UNDER THE GAS FACILITY BEFORE REMOVING SUPPORTS.
- N. SEE REGIONAL PBWK5010 PROCEDURES FOR REPLACEMENT REQUIREMENTS OF CAST IRON PIPE.

| No. | ITEM | CODE No. |
|------------------|------|----------|
| BILL OF MATERIAL | | |

Typical Utility Crossing and Trench Guidelines



Typical depths in public roads:
24" cover on services
30" cover on distribution mains

Minimum depth for transmission lines and pipelines operating at ≥ 125 psig:
36" cover

Other utility:

12" minimum perpendicular clearance (whenever practicable) above or below proposed gas line.

Protect the gas line if:

1. 12" min. cannot be attained for gas transmission lines and pipelines operating at ≥ 125 psig.
2. 6" min. cannot be attained for distribution mains.
3. 4" min. cannot be attained for services.

Minimum clearance when protection is provided against damage is 2" for all gas lines.

Pipeline backfill will consist of suitable materials (medium to coarse sands with little or no silts) placed in layers of no more than 8" to 12" after compaction. Trench spoil materials suitable for backfilling will be mechanically compacted to the industry standards of 95% (as measured by Drop-Cone Penetrometer method) or until a density comparable to the unexcavated material is achieved.

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RI

TYPICAL UTILITY CROSSING AND TRENCH GUIDELINES

DATE: 09/15/2014 EFFECTIVE DATE: 09/15/2014

DESIGN: N. COSTANZO

STD. DWG. NO. **CS-CNST002**

DRAWN: N. COSTANZO

Key Changes:

Pattern. The pattern shall be running bond brick installed perpendicular to the direction of travel.

Color. The color shall be oxide red.

EQUIPMENT. All equipment used shall meet the standards provided by the manufacturer, or as directed by the Engineer.

CONSTRUCTION METHODS. The application of the decorative crosswalk treatment shall be constructed in accordance with the manufacturer's direction, or as directed by the Engineer.

New HMA Pavement Underlay. The hot applied polymer modified synthetic asphalt surface treatment shall be applied to the new HMA pavement underlay, which will be installed in accordance with **Section 401** of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2013, with all revisions. Before the hot applied polymer modified synthetic asphalt surface treatment is installed, the HMA pavement is to cure and be exposed to traffic for a minimum of 14 days.

Milling the Pavement. In order to achieve a hot applied polymer modified synthetic asphalt surface treatment surface that is level with the surrounding pavement, the pavement will require milling to achieve proper depth level before the application of the hot applied polymer modified synthetic asphalt surface treatment. The installation area boundaries shall be sawcut prior to excavating the pavement materials for a clean edge. All pavement materials shall be milled and all excess material removed. The depth of the milled area shall allow the depth of the hot applied polymer modified synthetic asphalt surface treatment to be maintained within a range of 3/4" to 1" depth across the entire installation. The existing pavement must be free of cracks. The milling process will not necessarily remove pavement cracks. If the milling process does not remove the cracks, then it is recommended to crack seal the cracks.

Surface Preparation. The pavement surface shall be dry and clean: free of all dirt, debris, salts, concrete admixtures and any chemical residues. Bituminous residue must be removed from new HMA pavement surface prior to application of the hot applied polymer modified synthetic asphalt surface treatment. Removal of these contaminants may be done by brooming, compressed air, pressure washing or if necessary lightgrit blasting. Wire brush may be used to remove loose or powdery materials.

Installation of Hot Applied Polymer Modified Synthetic Asphalt Surface Treatment. The road temperature shall be a minimum of 32°F and rising. Surfaces with a high degree of porosity require a primer before the hot applied polymer modified synthetic asphalt surface treatment is

installed. The hot applied polymer modified synthetic asphalt surface treatment material shall be prepared for installation utilizing a heating kettle specifically designed for hot applied polymer modified synthetic asphalt surface treatment and capable of mixing components to a homogenous consistency. The material shall be heated within the temperature range of 385 °F – 420 °F prior to installation. The hot applied polymer modified synthetic asphalt surface treatment shall be uniformly distributed onto the pavement surface by means of preheated finishing irons.

The heated and mixed material is hand applied over the prepared surface at an average depth of between 3/4" and 1". Interface with adjacent surfaces shall be flush, providing smooth transition from surface to surface. Precautions to protect the immediate perimeter around the installation are to be taken. Immediately apply the silica cover aggregate at an approximate rate of 1.75 lb/SF, or as recommended by the manufacturer. The placement of this material does not require any compaction. Stamp the pattern into the semi molten material immediately after the silica aggregate application using an approved mold capable of providing a 5/16 (\pm 1/16) inch deep impression in accordance to the design details shown on the plans and as approved by the Engineer.

The hot applied polymer modified synthetic asphalt surface treatment can be open to traffic when the hot applied polymer modified synthetic asphalt surface treatment has cooled and hardened. This is typically one (1) hour, but depends on the actual ambient conditions. More time may be required in hot weather. After initial set, remove excess aggregate by hand or suction sweeping prior to opening to traffic.

SUBMITTAL. The Contractor shall submit the latest edition of manufacturer's literature including performance data, installation procedures, and certificate(s) of compliance for all properties listed in materials section for approval by the Engineer prior to the commencement of work.

Contractor Experience. The decorative crosswalk treatment shall be supplied and applied only by a Contractor certified by the manufacturer and by installation personnel that have been certified/trained in the proper installation procedures. Prior to commencing work, the Contractor shall provide proof of their completion of a minimum of two (2) previous successful hot applied polymer modified synthetic asphalt surface treatment installations. The certified applicator shall follow the manufacturer's current published application procedures.

METHOD OF MEASUREMENT. "Decorative Crosswalk Treatment" will be measured for payment by the "Square Foot" actually installed in accordance with the Plans and/or as directed by the Engineer.

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Project Name - Pedestrian and Intersection Safety Improvements w/ Albion Beacon - STC
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| ItemCode | Description | Page |
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| 201.0321 | CLEARING AND GRUBBING | 1 |
| 201.0401 | REMOVE AND DISPOSE GRANITE CURB | 1 |
| 201.0402 | REMOVE AND DISPOSE CONCRETE CURB | 1 |
| 201.0403 | REMOVE AND DISPOSE SIDEWALKS | 2 |
| 201.0407 | REMOVE AND DISPOSE PAVEMENT AND RIGID BASE | 4 |
| 201.0409 | REMOVE AND DISPOSE FLEXIBLE PAVEMENT | 6 |
| 201.0450 | REMOVE AND STOCKPILE ON SITE GRANITE CURB | 6 |
| 201.0610 | REMOVE AND DISPOSE DIRECTIONAL, WARNING, REGULATORY, SERVICE, AND STREET SIGNS | 7 |
| 201.9901 | REMOVE AND RELOCATE BOULDER | 7 |
| 201.9902 | REMOVE, STOCKPILE, AND RESET OR RELOCATE SIGN | 7 |
| 201.9903 | REMOVE AND DISPOSE BRICK CROSSWALK PAVERS | 8 |
| 201.9904 | REMOVE AND DISPOSE SIDEWALK BY HAND | 8 |
| 201.9905 | RESET BRICK PAVERS | 9 |
| 201.9906 | REMOVE AND DISPOSE PHONE BOOTH | 9 |
| 201.9907 | REMOVE, STOCKPILE, AND RESET COBBLE STONE EDGE | 9 |
| 201.9908 | REMOVE AND SALVAGE TRAFFIC SIGNAL EQUIPMENT - SIGNAL NO. 841 | 10 |
| 201.9909 | REMOVE AND SALVAGE TRAFFIC SIGNAL EQUIPMENT - SIGNAL NO. 413 | 10 |
| 202.0100 | EARTH EXCAVATION | 10 |
| 204.0100 | TRIMMING AND FINE GRADING | 11 |
| 209.9901 | INLET SEDIMENT CONTROL | 13 |
| 209.9902 | CURB INLET FILTER | 14 |
| 212.2000 | CLEANING AND MAINTENANCE OF EROSION CONTROLS | 14 |
| 302.0100 | GRAVEL BORROW SUBBASE COURSE | 15 |
| 401.3002 | CLASS 9.5 HMA FOR LEVELLING | 16 |
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| 401.9901 | DECORATIVE CROSSWALK TREATMENT | 17 |
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| 707.1100 | ADJUST CATCH BASINS | 22 |
| 708.9041 | CLEANING CATCH BASINS ALL TYPES AND SIZES | 23 |
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| 713.8269 | ADJUST WATER GATE BOXES TO GRADE | 23 |
| 713.8300 | ADJUST GAS GATE BOXES TO GRADE | 24 |
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| 905.0140 | BITUMINOUS SIDEWALK STANDARD 43.2.0 | 26 |
| 906.0110 | GRANITE CURB, QUARRY SPLIT STRAIGHT, STANDARD 7.3.0 | 26 |
| 906.0111 | GRANITE CURB, QUARRY SPLIT CIRCULAR, STANDARD 7.3.0 | 27 |
| 906.0113 | GRANITE CURB PROVIDENCE STANDARD 7" CIRCULAR | 28 |
| 906.0120 | GRANITE WHEELCHAIR RAMP CURB STANDARDS 7.3.3, 43.3.0 AND 43.3.1 | 28 |
| 906.0130 | GRANITE RAMP STONE STRAIGHT STANDARD 7.3.9 | 28 |
| 906.0131 | GRANITE RAMP STONE CIRCULAR STANDARD 7.3.9 | 29 |
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| 906.0211 | CEMENT CONCRETE CURB PRECAST CIRCULAR STANDARD 7.1.0 | 30 |
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| 906.0262 | PRECAST CONCRETE RAMP STONE 18-INCH STRAIGHT STANDARD 7.1.9 | 32 |
| 906.0263 | PRECAST CONCRETE RAMP STONE 18-INCH CIRCULAR STANDARD 7.1.9 | 32 |
| 906.0280 | 3' PRECAST CONCRETE TRANSITION CURB STANDARD 7.1.1 | 33 |
| 906.0561 | CEMENT CONCRETE EDGING 18 INCH LOT CURB STANDARD 7.2.3 | 33 |
| 906.0700 | REMOVE, HANDLE, HAUL TRIM RESET CURB EDGING, STRAIGHT, CIRCULAR ALL TYPES | 33 |
| 906.9901 | SAFETY EDGE | 34 |
| 906.9902 | GRANITE TRUCK APRON STONE, CIRCULAR, STANDARD 7.7.0 | 34 |
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| 932.0110 | TRANSVERSE PAVEMENT CUT AND MATCH STANDARD 47.1.1 | 37 |
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|----------|-----------|----------------------------------|----|--------|----------|----------|
| 001 | 201.0321 | CLEARING AND GRUBBING | SY | | | |
| | | SMITH ST./JASTRAM ST. | | | | |
| | | SOUTH RAMP | | 55.00 | 0021 | 01 |
| | | Item 201.0321 Total: | | 55.00 | | |
| 002 | 201.0401 | REMOVE AND DISPOSE GRANITE CURB | LF | | | |
| | | BROAD ST./B.F. NORTON SCHOOL | | | | |
| | | NE SIDEWALK | | 11.00 | 0021 | 01 |
| | | NW SIDEWALK | | 11.00 | 0021 | 01 |
| | | SE SIDEWALK | | 19.00 | 0021 | 01 |
| | | SW CORNER | | 22.00 | 0021 | 01 |
| | | BROAD ST./TOWN HALL | | | | |
| | | NE SIDEWALK | | 22.00 | 0021 | 01 |
| | | NW SIDEWALK | | 12.00 | 0021 | 01 |
| | | SE SIDEWALK | | 9.00 | 0021 | 01 |
| | | SW SIDEWALK | | 10.00 | 0021 | 01 |
| | | COUNTY RD./BARTON AVE. | | | | |
| | | 1+32 | | 1.00 | 0021 | 01 |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | ROUNDAABOUT DESIGN | | 100.00 | 0021 | 01 |
| | | WARWICK AVE./CHURCH AVE. | | | | |
| | | NE CORNER | | 21.00 | 0021 | 01 |
| | | NW CORNER | | 16.00 | 0021 | 01 |
| | | SE CORNER | | 16.00 | 0021 | 01 |
| | | SW CORNER | | 18.00 | 0021 | 01 |
| | | WASHINGTON ST./ TIDES FAMILY | | | | |
| | | SERVICES | | | | |
| | | E CORNER | | 6.00 | 0021 | 01 |
| | | Item 201.0401 Total: | | 294.00 | | |
| 003 | 201.0402 | REMOVE AND DISPOSE CONCRETE CURB | LF | | | |
| | | ATWOOD AVE./MEMORIAL AVE. | | | | |
| | | EAST SIDE | | 26.00 | 0021 | 01 |
| | | WEST SIDE | | 26.00 | 0021 | 01 |
| | | BOSTON NECK RD./METTATUXET RD. | | | | |
| | | EAST SIDE | | 22.00 | 0021 | 01 |

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|----------------------|----------------|--|----|----------|----------|----------|
| 004 | 201.0403 Cont. | NW CORNER | | 22.00 | 0021 | 01 |
| | | SE CORNER | | 13.00 | 0021 | 01 |
| | | SW CORNER | | 12.00 | 0021 | 01 |
| | | WASHINGTON ST./EAST ST. | | | | |
| | | EAST SIDE | | 11.00 | 0021 | 01 |
| | | WEST SIDE | | 29.00 | 0021 | 01 |
| | | WASHINGTON ST./TIDES FAMILY SERVICES | | | | |
| | | EAST SIDE | | 40.00 | 0021 | 01 |
| | | WEST SIDE | | 15.00 | 0021 | 01 |
| Item 201.0403 Total: | | | | 1,164.00 | | |
| 005 | 201.0407 | REMOVE AND DISPOSE PAVEMENT AND RIGID BASE | SY | | | |
| | | ATWOOD AVE./MEMORIAL AVE. | | | | |
| | | FROM ITEM 906.0210 | | 3.00 | 0021 | 01 |
| | | FROM ITEM 906.0250 | | 5.00 | 0021 | 01 |
| | | FROM ITEM 906.0262 | | 2.00 | 0021 | 01 |
| | | BOSTON NECK RD./METTATUXET RD. | | | | |
| | | FROM ITEM 906.0210 | | 3.00 | 0021 | 01 |
| | | FROM ITEM 906.0211 | | 6.00 | 0021 | 01 |
| | | FROM ITEM 906.0250 | | 16.00 | 0021 | 01 |
| | | FROM ITEM 906.0262 | | 2.00 | 0021 | 01 |
| | | FROM ITEM 906.0263 | | 4.00 | 0021 | 01 |
| | | BROAD ST./B.F. NORTON SCHOOL | | | | |
| | | FROM ITEM 906.0110 | | 8.00 | 0021 | 01 |
| | | FROM ITEM 906.0120 | | 6.00 | 0021 | 01 |
| | | FROM ITEM 906.0130 | | 1.00 | 0021 | 01 |
| | | FROM ITEM 906.0131 | | 2.00 | 0021 | 01 |
| | | IN FRONT OF SW CORNER | | 1.00 | 0021 | 01 |
| | | BROAD ST./TOWN HALL | | | | |
| | | FROM ITEM 906.0110 | | 21.00 | 0021 | 01 |
| | | FROM ITEM 906.0130 | | 2.00 | 0021 | 01 |

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|----------|-----------|--|------|-------|----------|----------|
| 008 | 201.0610 | REMOVE AND DISPOSE DIRECTIONAL, WARNING, REGULATORY, SERVICE, AND STREET SIGNS | EACH | | | |
| | | BROAD ST./B.F. NORTON SCHOOL | | | | |
| | | 1+79 R | | 1.00 | 0021 | 01 |
| | | 2+68 R | | 2.00 | 0021 | 01 |
| | | 2+82 R | | 1.00 | 0021 | 01 |
| | | 2+95 L | | 2.00 | 0021 | 01 |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | ROUNDAABOUT DESIGN | | 16.00 | 0021 | 01 |
| | | SOWAMS RD./EAST BAY BIKE PATH | | | | |
| | | 0+43 R | | 1.00 | 0021 | 01 |
| | | 1+56 R | | 2.00 | 0021 | 01 |
| | | 1+66 L | | 1.00 | 0021 | 01 |
| | | 1+74 R | | 1.00 | 0021 | 01 |
| | | WASHINGTON ST./EAST ST. | | | | |
| | | 0+31 L | | 1.00 | 0021 | 01 |
| | | Item 201.0610 Total: | | 28.00 | | |
| 009 | 201.9901 | REMOVE AND RELOCATE BOULDER | EACH | | | |
| | | OCEAN RD./SAKONNET BLVD. | | | | |
| | | EAST SIDE | | 1.00 | 0021 | 01 |
| | | Item 201.9901 Total: | | 1.00 | | |
| 010 | 201.9902 | REMOVE, STOCKPILE, AND RESET OR RELOCATE SIGN | EACH | | | |
| | | ATWOOD AVE./MEMORIAL AVE. | | | | |
| | | EAST SIDE | | 2.00 | 0021 | 01 |
| | | WEST SIDE | | 3.00 | 0021 | 01 |
| | | BOSTON NECK RD./METTATUXET RD. | | | | |
| | | EAST SIDE | | 4.00 | 0021 | 01 |
| | | SW CORNER | | 2.00 | 0021 | 01 |
| | | BROAD ST./B.F. NORTON SCHOOL | | | | |
| | | SE CORNER | | 2.00 | 0021 | 01 |
| | | SW CORNER | | 6.00 | 0021 | 01 |

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|-----------------------------|----------------|--|----|---------------|----------|----------|
| 010 | 201.9902 Cont. | WEST SIDE | | 1.00 | 0021 | 01 |
| | | BROAD ST./TOWN HALL NE CORNER | | 2.00 | 0021 | 01 |
| | | NORTH SIDE | | 1.00 | 0021 | 01 |
| | | NW CORNER | | 2.00 | 0021 | 01 |
| | | SW CORNER | | 1.00 | 0021 | 01 |
| | | COUNTY RD./BARTON AVE. | | | | |
| | | NORTH SIDE | | 2.00 | 0021 | 01 |
| | | KINGSTOWN RD./SPRAGUE PARK | | | | |
| | | SE CORNER | | 1.00 | 0021 | 01 |
| | | OCEAN RD./SAKONNET BLVD. | | | | |
| | | WEST SIDE | | 1.00 | 0021 | 01 |
| | | SMITH ST./JASTRAM ST. | | | | |
| | | SOUTH SIDE | | 1.00 | 0021 | 01 |
| | | WASHINGTON ST./EAST ST. | | | | |
| | | EAST SIDE | | 2.00 | 0021 | 01 |
| | | WEST SIDE | | 3.00 | 0021 | 01 |
| | | WASHINGTON ST./TIDES FAMILY SERVICES | | | | |
| | | EAST SIDE | | 2.00 | 0021 | 01 |
| | | WEST SIDE | | 2.00 | 0021 | 01 |
| Item 201.9902 Total: | | | | 40.00 | | |
| 011 | 201.9903 | REMOVE AND DISPOSE BRICK CROSSWALK SY PAVERS | | | | |
| | | HARTFORD AVE./PETTEYS AVE. | | | | |
| | | 1+29 - 2+38 M | | 173.00 | 0021 | 01 |
| Item 201.9903 Total: | | | | 173.00 | | |
| 012 | 201.9904 | REMOVE AND DISPOSE SIDEWALK BY HAND LF | | | | |
| | | BROAD ST./B.F. NORTON SCHOOL | | | | |
| | | NE SIDEWALK | | 15.00 | 0021 | 01 |
| | | NW SIDEWALK | | 15.00 | 0021 | 01 |
| | | SE SIDEWALK | | 19.00 | 0021 | 01 |
| | | SW CORNER | | 12.00 | 0021 | 01 |
| | | BROAD ST./TOWN HALL | | | | |
| | | NE SIDEWALK | | 22.00 | 0021 | 01 |
| | | NW SIDEWALK | | 33.00 | 0021 | 01 |

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|----------------------|----------------|--------------------------------------|------|--------|----------|----------|
| 012 | 201.9904 Cont. | SE SIDEWALK | | 12.00 | 0021 | 01 |
| | | SW SIDEWALK | | 11.00 | 0021 | 01 |
| | | HARTFORD AVE./PETTEYS AVE. | | | | |
| | | NE CORNER | | 6.00 | 0021 | 01 |
| | | SE CORNER | | 18.00 | 0021 | 01 |
| | | SW CORNER | | 11.00 | 0021 | 01 |
| | | KINGSTOWN RD./SPRAGUE PARK | | | | |
| | | NORTH SIDE | | 18.00 | 0021 | 01 |
| | | SE CORNER | | 5.00 | 0021 | 01 |
| | | SW CORNER | | 5.00 | 0021 | 01 |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | ROUNDAABOUT DESIGN | | 250.00 | 0021 | 01 |
| | | WASHINGTON ST./EAST ST. | | | | |
| | | WEST SIDE | | 26.00 | 0021 | 01 |
| | | WASHINGTON ST./TIDES FAMILY SERVICES | | | | |
| | | EAST SIDE | | 44.00 | 0021 | 01 |
| Item 201.9904 Total: | | | | 522.00 | | |
| 013 | 201.9905 | RESET BRICK PAVERS | SY | | | |
| | | HARTFORD AVE./PETTEYS AVE. | | | | |
| | | NW CORNER | | 1.00 | 0021 | 01 |
| Item 201.9905 Total: | | | | 1.00 | | |
| 014 | 201.9906 | REMOVE AND DISPOSE PHONE BOOTH | EACH | | | |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | ROUNDAABOUT DESIGN | | 1.00 | 0021 | 01 |
| Item 201.9906 Total: | | | | 1.00 | | |
| 015 | 201.9907 | REMOVE, STOCKPILE, AND RESET | LF | | | |
| | | COBBLE STONE EDGE | | | | |
| | | BROAD ST./TOWN HALL | | | | |
| | | SE SIDEWALK | | 4.00 | 0021 | 01 |

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|-----------------------------|----------------|--------------------------------------|----|---------------|----------|----------|
| 018 | 202.0100 Cont. | FROM ITEM 905.0110 | | 17.00 | 0021 | 01 |
| | | MEDIAN | | 7.00 | 0021 | 01 |
| | | OCEAN RD./SAKONNET BLVD. | | | | |
| | | FROM ITEM 905.0110 | | 7.00 | 0021 | 01 |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | ROUNDAABOUT DESIGN | | 33.00 | 0021 | 01 |
| | | SMITH ST./JASTRAM ST. | | | | |
| | | FROM ITEM 905.0110 | | 9.00 | 0021 | 01 |
| | | WARWICK AVE./CHURCH AVE. | | | | |
| | | FROM ITEM 905.0110 | | 22.00 | 0021 | 01 |
| | | FROM ITEM 905.0140 | | 3.00 | 0021 | 01 |
| | | WASHINGTON ST./EAST ST. | | | | |
| | | FROM ITEM 905.0110 | | 9.00 | 0021 | 01 |
| | | WASHINGTON ST./TIDES FAMILY SERVICES | | | | |
| | | FROM ITEM 905.0110 | | 12.00 | 0021 | 01 |
| | | FROM ITEM 905.0140 | | 1.00 | 0021 | 01 |
| Item 202.0100 Total: | | | | 215.00 | | |
| 019 | 204.0100 | TRIMMING AND FINE GRADING | SY | | | |
| | | ATWOOD AVE./MEMORIAL AVE. | | | | |
| | | FROM ITEM 905.0110 | | 29.00 | 0021 | 01 |
| | | FROM ITEM 906.0210 | | 3.00 | 0021 | 01 |
| | | FROM ITEM 906.0250 | | 7.00 | 0021 | 01 |
| | | FROM ITEM 906.0262 | | 2.00 | 0021 | 01 |
| | | BOSTON NECK RD./METTATUXET RD. | | | | |
| | | FROM ITEM 905.0110 | | 80.00 | 0021 | 01 |
| | | FROM ITEM 906.0210 | | 4.00 | 0021 | 01 |
| | | FROM ITEM 906.0211 | | 8.00 | 0021 | 01 |
| | | FROM ITEM 906.0250 | | 20.00 | 0021 | 01 |
| | | FROM ITEM 906.0262 | | 2.00 | 0021 | 01 |
| | | FROM ITEM 906.0263 | | 4.00 | 0021 | 01 |
| | | BROAD ST./B.F. NORTON SCHOOL | | | | |

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|----------------------|----------------|--------------------------------------|------|----------|----------|----------|
| 019 | 204.0100 Cont. | FROM ITEM 906.0263 | | 2.00 | 0021 | 01 |
| | | OCEAN RD./SAKONNET BLVD. | | | | |
| | | FROM ITEM 905.0110 | | 16.00 | 0021 | 01 |
| | | FROM ITEM 906.0210 | | 1.00 | 0021 | 01 |
| | | FROM ITEM 906.0250 | | 4.00 | 0021 | 01 |
| | | FROM ITEM 906.0262 | | 1.00 | 0021 | 01 |
| | | FROM ITEM 906.0561 | | 3.00 | 0021 | 01 |
| | | SAND | | 5.00 | 0021 | 01 |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | ROUNDAABOUT DESIGN | | 137.00 | 0021 | 01 |
| | | SMITH ST./JASTRAM ST. | | | | |
| | | FROM ITEM 905.0110 | | 40.00 | 0021 | 01 |
| | | WARWICK AVE./CHURCH AVE. | | | | |
| | | FROM ITEM 905.0110 | | 94.00 | 0021 | 01 |
| | | FROM ITEM 905.0140 | | 14.00 | 0021 | 01 |
| | | FROM ITEM 906.0110 | | 1.00 | 0021 | 01 |
| | | FROM ITEM 906.0111 | | 4.00 | 0021 | 01 |
| | | FROM ITEM 906.0120 | | 16.00 | 0021 | 01 |
| | | FROM ITEM 906.0130 | | 1.00 | 0021 | 01 |
| | | FROM ITEM 906.0131 | | 3.00 | 0021 | 01 |
| | | WASHINGTON ST./EAST ST. | | | | |
| | | FROM ITEM 905.0110 | | 40.00 | 0021 | 01 |
| | | WASHINGTON ST./TIDES FAMILY SERVICES | | | | |
| | | FROM ITEM 905.0110 | | 54.00 | 0021 | 01 |
| | | FROM ITEM 905.0140 | | 3.00 | 0021 | 01 |
| Item 204.0100 Total: | | | | 1,153.00 | | |
| 020 | 209.9901 | INLET SEDIMENT CONTROL | EACH | | | |
| | | BOSTON NECK RD./METTATUXET RD. | | | | |
| | | SE CORNER | | 1.00 | 0021 | 01 |
| | | SW CORNER | | 1.00 | 0021 | 01 |
| | | HARTFORD AVE./PETTEYS AVE. | | | | |

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|----------|----------------|--------------------------------------|----|-------|----------|----------|
| 022 | 212.2000 Cont. | Item 212.2000 Total: | | 1.00 | | |
| 023 | 302.0100 | GRAVEL BORROW SUBBASE COURSE | CY | | | |
| | | ATWOOD AVE./MEMORIAL AVE. | | | | |
| | | FROM ITEM 905.0110 | | 6.00 | 0021 | 01 |
| | | BOSTON NECK RD./METTATUXET RD. | | | | |
| | | FROM ITEM 905.0110 | | 18.00 | 0021 | 01 |
| | | BROAD ST./B.F. NORTON SCHOOL | | | | |
| | | FROM ITEM 905.0110 | | 12.00 | 0021 | 01 |
| | | BROAD ST./TOWN HALL | | | | |
| | | FROM ITEM 905.0110 | | 16.00 | 0021 | 01 |
| | | COUNTY RD./BARTON AVE. | | | | |
| | | FROM ITEM 905.0110 | | 3.00 | 0021 | 01 |
| | | HARTFORD AVE./PETTEYS AVE. | | | | |
| | | FROM ITEM 905.0110 | | 12.00 | 0021 | 01 |
| | | KINGSTOWN RD./SPRAGUE PARK | | | | |
| | | FROM ITEM 905.0110 | | 9.00 | 0021 | 01 |
| | | OCEAN RD./DESANO DR. | | | | |
| | | FROM ITEM 905.0110 | | 17.00 | 0021 | 01 |
| | | OCEAN RD./SAKONNET BLVD. | | | | |
| | | FROM ITEM 905.0110 | | 4.00 | 0021 | 01 |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | ROUNDAABOUT DESIGN | | 33.00 | 0021 | 01 |
| | | SMITH ST./JASTRAM ST. | | | | |
| | | FROM ITEM 905.0110 | | 9.00 | 0021 | 01 |
| | | WARWICK AVE./CHURCH AVE. | | | | |
| | | FROM ITEM 905.0110 | | 21.00 | 0021 | 01 |
| | | FROM ITEM 905.0140 | | 3.00 | 0021 | 01 |
| | | WASHINGTON ST./EAST ST. | | | | |
| | | FROM ITEM 905.0110 | | 9.00 | 0021 | 01 |
| | | WASHINGTON ST./TIDES FAMILY SERVICES | | | | |
| | | FROM ITEM 905.0110 | | 12.00 | 0021 | 01 |

Distribution of Quantities

Project Name - Pedestrian and Intersection Safety Improvements w/ Albion Beacon - STC
 Estimate Name - Addendum No. 1
 R.I. Contract No. - 2016-CH-055
 FAP Nos: STPG-0202(134)

| Item No. | Item Code | Description | UM | Qty. | Pay Code | Seq. No. |
|----------|----------------|--|-----|--|---------------|----------|
| 023 | 302.0100 Cont. | FROM ITEM 905.0140 | | 1.00 | 0021 | 01 |
| | | | | Item 302.0100 Total: | 185.00 | |
| 024 | 401.3002 | CLASS 9.5 HMA FOR LEVELLING METACOM AVE./NORTH CAMPUS ROAD NORTH CAMPUS ENTRANCE | TON | 94.00 | 0021 | 01 |
| | | | | Item 401.3002 Total: | 94.00 | |
| 025 | 401.3005 | CLASS 9.5 HMA FOR MISCELLANEOUS WORK ATWOOD AVE./MEMORIAL AVE. FROM ITEM 201.0407 BOSTON NECK RD./METTATUXET RD. FROM ITEM 201.0407 BROAD ST./B.F. NORTON SCHOOL FROM ITEM 201.0407 BROAD ST./TOWN HALL FROM ITEM 201.0407 COUNTY RD./BARTON AVE. FROM ITEM 201.0407 HARTFORD AVE./PETTEYS AVE. CURB WORK IN MM AREAS KINGSTOWN RD./SPRAGUE PARK FROM ITEM 201.0407 OCEAN RD./DESANO DR. FROM ITEM 201.0407 OCEAN RD./SAKONNET BLVD. FROM ITEM 201.0407 SCHOOL ST./MAIN ST. ALBION CURB WORK IN MM AREAS SE CURB RAMP SMITH ST./JASTRAM ST. FROM ITEM 201.0407 | TON | 1.00 4.00 2.00 3.00 2.00 2.00 2.00 4.00 2.00 3.00 1.00 2.00 | 0021 | 01 |

Distribution of Quantities

Project Name - Pedestrian and Intersection Safety Improvements w/ Albion Beacon - STC
 Estimate Name - Addendum No. 1
 R.I. Contract No. - 2016-CH-055
 FAP Nos: STPG-0202(134)

| Item No. | Item Code | Description | UM | Qty. | Pay Code | Seq. No. |
|-----------------------------|----------------|--------------------------------------|----|-----------------|----------|----------|
| S029 | 403.9901 Cont. | BOSTON NECK RD./METTATUXET RD. | | | | |
| | | FROM ITEM 932.0210 | | 158.00 | 0021 | 01 |
| | | BROAD ST./B.F. NORTON SCHOOL | | | | |
| | | FROM ITEM 932.0210 | | 92.00 | 0021 | 01 |
| | | BROAD ST./TOWN HALL | | | | |
| | | FROM ITEM 932.0210 | | 38.00 | 0021 | 01 |
| | | COUNTY RD./BARTON AVE. | | | | |
| | | FROM ITEM 932.0210 | | 66.00 | 0021 | 01 |
| | | HARTFORD AVE./PETTEYS AVE. | | | | |
| | | FROM ITEM 906.0700 | | 33.00 | 0021 | 01 |
| | | KINGSTOWN RD./SPRAGUE PARK | | | | |
| | | FROM ITEM 932.0210 | | 96.00 | 0021 | 01 |
| | | OCEAN RD./DESANO DR. | | | | |
| | | FROM ITEM 932.0210 | | 166.00 | 0021 | 01 |
| | | OCEAN RD./SAKONNET BLVD. | | | | |
| | | FROM ITEM 932.0210 | | 43.00 | 0021 | 01 |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | ROUNDAABOUT DESIGN | | 165.00 | 0021 | 01 |
| | | SMITH ST./JASTRAM ST. | | | | |
| | | FROM ITEM 932.0210 | | 76.00 | 0021 | 01 |
| | | WARWICK AVE./CHURCH AVE. | | | | |
| | | FROM ITEM 932.0210 | | 209.00 | 0021 | 01 |
| | | WASHINGTON ST./EAST ST. | | | | |
| | | FROM ITEM 932.0210 | | 82.00 | 0021 | 01 |
| | | WASHINGTON ST./TIDES FAMILY SERVICES | | | | |
| | | FROM ITEM 932.0210 | | 58.00 | 0021 | 01 |
| Item 403.9901 Total: | | | | 1,334.00 | | |

Distribution of Quantities

Project Name - Pedestrian and Intersection Safety Improvements w/ Albion Beacon - STC
 Estimate Name - Addendum No. 1
 R.I. Contract No. - 2016-CH-055
 FAP Nos: STPG-0202(134)

| Item No. | Item Code | Description | UM | Qty. | Pay Code | Seq. No. |
|----------------------|----------------|--------------------------------------|----|--------|----------|----------|
| 031 | 601.0300 Cont. | FROM ITEM 906.0263 | | 1.00 | 0021 | 01 |
| | | OCEAN RD./DESANO DR. | | | | |
| | | FROM ITEM 906.0210 | | 2.00 | 0021 | 01 |
| | | FROM ITEM 906.0211 | | 1.00 | 0021 | 01 |
| | | FROM ITEM 906.0230 | | 5.00 | 0021 | 01 |
| | | FROM ITEM 906.0250 | | 4.00 | 0021 | 01 |
| | | FROM ITEM 906.0262 | | 1.00 | 0021 | 01 |
| | | OCEAN RD./SAKONNET BLVD. | | | | |
| | | FROM ITEM 906.0210 | | 1.00 | 0021 | 01 |
| | | FROM ITEM 906.0250 | | 1.00 | 0021 | 01 |
| | | FROM ITEM 906.0262 | | 1.00 | 0021 | 01 |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | ROUNDAABOUT DESIGN | | 28.00 | 0021 | 01 |
| | | SMITH ST./JASTRAM ST. | | | | |
| | | FROM ITEM 906.0700 | | 5.00 | 0021 | 01 |
| | | WARWICK AVE./CHURCH AVE. | | | | |
| | | FROM ITEM 906.0110 | | 1.00 | 0021 | 01 |
| | | FROM ITEM 906.0111 | | 1.00 | 0021 | 01 |
| | | FROM ITEM 906.0120 | | 4.00 | 0021 | 01 |
| | | FROM ITEM 906.0130 | | 1.00 | 0021 | 01 |
| | | FROM ITEM 906.0131 | | 1.00 | 0021 | 01 |
| | | FROM ITEM 906.0700 | | 7.00 | 0021 | 01 |
| | | WASHINGTON ST./EAST ST. | | | | |
| | | FROM ITEM 906.0110 | | 1.00 | 0021 | 01 |
| | | FROM ITEM 906.0700 | | 6.00 | 0021 | 01 |
| | | WASHINGTON ST./TIDES FAMILY SERVICES | | | | |
| | | FROM ITEM 906.0110 | | 3.00 | 0021 | 01 |
| | | FROM ITEM 906.0130 | | 1.00 | 0021 | 01 |
| | | FROM ITEM 906.0700 | | 3.00 | 0021 | 01 |
| Item 601.0300 Total: | | | | 127.00 | | |

032 702.0541 GRANITE INLET STONE 38'' STANDARD EACH

Distribution of Quantities

Project Name - Pedestrian and Intersection Safety Improvements w/ Albion Beacon - STC
 Estimate Name - Addendum No. 1
 R.I. Contract No. - 2016-CH-055
 FAP Nos: STPG-0202(134)

| Item No. | Item Code | Description | UM | Qty. | Pay Code | Seq. No. |
|----------|-----------|-----------------------------------|------|--------------------|----------|----------|
| 032 | 702.0541 | Cont. 7.3.6 | | | | |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | ROUNDAABOUT DESIGN | | 1.00 | 0021 | 01 |
| | | Item 702.0541 Total: | | 1.00 | | |
| 033 | 707.0900 | ADJUST MANHOLES TO GRADE | EACH | | | |
| | | HARTFORD AND PETTEYS AVENUE | | | | |
| | | 2+23 L | | 1.00 | 0021 | 01 |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | 81+28 L | | 1.00 | 0021 | 01 |
| | | Item 707.0900 Total: | | 2.00 | | |
| 034 | 707.0950 | ADJUST TELEPHONE MANHOLE TO GRADE | EACH | | | |
| | | WARWICK AVE AND CHURCH AVE | | | | |
| | | 54+66 M | | 1.00 | 0021 | 01 |
| | | Item 707.0950 Total: | | **DELETED** | | |
| 035 | 707.1000 | ADJUST SANITARY MANHOLE | EACH | | | |
| | | HARTFORD AVE AND PETTEYS AVE | | | | |
| | | 0+74 M | | 1.00 | 0021 | 01 |
| | | 1+65 R | | 1.00 | 0021 | 01 |
| | | 1+93 L | | 1.00 | 0021 | 01 |
| | | 2+02 M | | 1.00 | 0021 | 01 |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | 81+31 R | | 1.00 | 0021 | 01 |
| | | 81+84 R | | 1.00 | 0021 | 01 |
| | | 81+89 R | | 1.00 | 0021 | 01 |
| | | WARWICK AVE AND CHURCH AVE | | | | |
| | | 54+81 M | | 1.00 | 0021 | 01 |
| | | Item 707.1000 Total: | | 8.00 | | |
| 036 | 707.1100 | ADJUST CATCH BASINS | EACH | | | |
| | | HARTFORD AVE AND PETTEYS AVE | | | | |

Distribution of Quantities

Project Name - Pedestrian and Intersection Safety Improvements w/ Albion Beacon - STC
 Estimate Name - Addendum No. 1
 R.I. Contract No. - 2016-CH-055
 FAP Nos: STPG-0202(134)

| Item No. | Item Code | Description | UM | Qty. | Pay Code | Seq. No. |
|----------------------|----------------|---|----|--------|----------|----------|
| 041 | 905.0110 Cont. | SOUTH SIDE | | 3.00 | 0021 | 01 |
| | | OCEAN RD./SAKONNET BLVD. | | | | |
| | | EAST SIDE | | 1.00 | 0021 | 01 |
| | | WEST SIDE | | 2.00 | 0021 | 01 |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | ROUNDAABOUT DESIGN | | 17.00 | 0021 | 01 |
| | | SMITH ST./JASTRAM ST. | | | | |
| | | NORTH SIDE | | 3.00 | 0021 | 01 |
| | | SOUTH SIDE | | 2.00 | 0021 | 01 |
| | | WARWICK AVE./CHURCH AVE. | | | | |
| | | NE CORNER | | 8.00 | 0021 | 01 |
| | | NW CORNER | | 3.00 | 0021 | 01 |
| | | SE CORNER | | 4.00 | 0021 | 01 |
| | | SW CORNER | | 2.00 | 0021 | 01 |
| | | WASHINGTON ST./EAST ST. | | | | |
| | | EAST SIDE | | 1.00 | 0021 | 01 |
| | | WEST SIDE | | 3.00 | 0021 | 01 |
| | | WASHINGTON ST./TIDES FAMILY SERVICES | | | | |
| | | EAST SIDE | | 4.00 | 0021 | 01 |
| | | WEST SIDE | | 2.00 | 0021 | 01 |
| Item 905.0110 Total: | | | | 117.00 | | |
| 042 | 905.0140 | BITUMINOUS SIDEWALK STANDARD 43.2.0 TON | | | | |
| | | WARWICK AVE./CHURCH AVE. | | | | |
| | | NW CORNER | | 2.00 | 0021 | 01 |
| | | SE CORNER | | 1.00 | 0021 | 01 |
| | | WASHINGTON ST./TIDES FAMILY SERVICES | | | | |
| | | WEST SIDE | | 1.00 | 0021 | 01 |
| Item 905.0140 Total: | | | | 4.00 | | |
| 043 | 906.0110 | GRANITE CURB, QUARRY SPLIT | LF | | | |

Distribution of Quantities

Project Name - Pedestrian and Intersection Safety Improvements w/ Albion Beacon - STC
 Estimate Name - Addendum No. 1
 R.I. Contract No. - 2016-CH-055
 FAP Nos: STPG-0202(134)

| Item No. | Item Code | Description | UM | Qty. | Pay Code | Seq. No. |
|----------|-----------|--------------------------------------|----|-----------------------------|---------------|----------|
| 043 | 906.0110 | Cont. STRAIGHT, STANDARD 7.3.0 | | | | |
| | | BROAD ST./B.F. NORTON SCHOOL | | | | |
| | | NE SIDEWALK | | 14.00 | 0021 | 01 |
| | | NW SIDEWALK | | 15.00 | 0021 | 01 |
| | | SW CORNER | | 5.00 | 0021 | 01 |
| | | BROAD ST./TOWN HALL | | | | |
| | | NE SIDEWALK | | 18.00 | 0021 | 01 |
| | | NW SIDEWALK | | 49.00 | 0021 | 01 |
| | | SE SIDEWALK | | 12.00 | 0021 | 01 |
| | | SW SIDEWALK | | 14.00 | 0021 | 01 |
| | | CONTINGENCY | | | | |
| | | 20% | | 44.00 | 0021 | 01 |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | ROUNDAABOUT DESIGN | | 89.00 | 0021 | 01 |
| | | WARWICK AVE./CHURCH AVE. | | | | |
| | | SW CORNER | | 4.00 | 0021 | 01 |
| | | WASHINGTON ST./EAST ST. | | | | |
| | | WEST SIDE | | 10.00 | 0021 | 01 |
| | | WASHINGTON ST./TIDES FAMILY SERVICES | | | | |
| | | EAST SIDE | | 17.00 | 0021 | 01 |
| | | WEST SIDE | | 16.00 | 0021 | 01 |
| | | | | Item 906.0110 Total: | 307.00 | |
| 044 | 906.0111 | GRANITE CURB, QUARRY SPLIT | LF | | | |
| | | CIRCULAR, STANDARD 7.3.0 | | | | |
| | | CONTINGENCY | | | | |
| | | 20% | | 23.00 | 0021 | 01 |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | ROUNDAABOUT DESIGN | | 103.00 | 0021 | 01 |
| | | WARWICK AVE./CHURCH AVE. | | | | |
| | | NE CORNER | | 5.00 | 0021 | 01 |
| | | SW CORNER | | 8.00 | 0021 | 01 |
| | | | | Item 906.0111 Total: | 139.00 | |

Distribution of Quantities

Project Name - Pedestrian and Intersection Safety Improvements w/ Albion Beacon - STC
 Estimate Name - Addendum No. 1
 R.I. Contract No. - 2016-CH-055
 FAP Nos: STPG-0202(134)

| Item No. | Item Code | Description | UM | Qty. | Pay Code | Seq. No. |
|----------|-----------|------------------------------------|------|-------|----------|----------|
| 045 | 906.0113 | GRANITE CURB PROVIDENCE STANDARD | LF | | | |
| | | 7" CIRCULAR | | | | |
| | | HARTFORD AVE./PETTEYS AVE. | | | | |
| | | NE CORNER | | 18.00 | 0021 | 01 |
| | | NW CORNER | | 20.00 | 0021 | 01 |
| | | SE CORNER | | 16.00 | 0021 | 01 |
| | | SW CORNER | | 16.00 | 0021 | 01 |
| | | Item 906.0113 Total: | | 70.00 | | |
| 046 | 906.0120 | GRANITE WHEELCHAIR RAMP CURB | EACH | | | |
| | | STANDARDS 7.3.3, 43.3.0 AND 43.3.1 | | | | |
| | | BROAD ST./B.F. NORTON SCHOOL | | | | |
| | | SE SIDEWALK | | 2.00 | 0021 | 01 |
| | | SW CORNER | | 2.00 | 0021 | 01 |
| | | BROAD ST./TOWN HALL | | | | |
| | | NE SIDEWALK | | 1.00 | 0021 | 01 |
| | | NW SIDEWALK | | 1.00 | 0021 | 01 |
| | | SE SIDEWALK | | 1.00 | 0021 | 01 |
| | | SW SIDEWALK | | 1.00 | 0021 | 01 |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | ROUNDAABOUT DESIGN | | 6.00 | 0021 | 01 |
| | | WARWICK AVE./CHURCH AVE. | | | | |
| | | NE CORNER | | 2.00 | 0021 | 01 |
| | | NW CORNER | | 2.00 | 0021 | 01 |
| | | SE CORNER | | 2.00 | 0021 | 01 |
| | | SW CORNER | | 2.00 | 0021 | 01 |
| | | Item 906.0120 Total: | | 22.00 | | |
| 047 | 906.0130 | GRANITE RAMP STONE STRAIGHT | EACH | | | |
| | | STANDARD 7.3.9 | | | | |
| | | BROAD ST./B.F. NORTON SCHOOL | | | | |
| | | SE SIDEWALK | | 1.00 | 0021 | 01 |

Distribution of Quantities

Project Name - Pedestrian and Intersection Safety Improvements w/ Albion Beacon - STC
 Estimate Name - Addendum No. 1
 R.I. Contract No. - 2016-CH-055
 FAP Nos: STPG-0202(134)

| Item No. | Item Code | Description | UM | Qty. | Pay Code | Seq. No. |
|-------------------------|----------------|--------------------------------------|------|-----------------------------|-------------|----------|
| 047 | 906.0130 Cont. | BROAD ST./TOWN HALL | | | | |
| | | NE SIDEWALK | | 1.00 | 0021 | 01 |
| | | NW SIDEWALK | | 1.00 | 0021 | 01 |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | ROUNDAABOUT DESIGN | | 2.00 | 0021 | 01 |
| | | WARWICK AVE./CHURCH AVE. | | | | |
| | | SW CORNER | | 1.00 | 0021 | 01 |
| | | WASHINGTON ST./TIDES FAMILY SERVICES | | | | |
| | | WEST SIDE | | 1.00 | 0021 | 01 |
| | | | | Item 906.0130 Total: | 7.00 | |
| 048 | 906.0131 | GRANITE RAMP STONE CIRCULAR | EACH | | | |
| STANDARD 7.3.9 | | | | | | |
| | | BROAD ST./B.F. NORTON SCHOOL | | | | |
| | | SW CORNER | | 1.00 | 0021 | 01 |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | ROUNDAABOUT DESIGN | | 1.00 | 0021 | 01 |
| | | WARWICK AVE./CHURCH AVE. | | | | |
| | | NE CORNER | | 1.00 | 0021 | 01 |
| | | NW CORNER | | 1.00 | 0021 | 01 |
| | | SE CORNER | | 1.00 | 0021 | 01 |
| | | | | Item 906.0131 Total: | 5.00 | |
| 049 | 906.0210 | CEMENT CONCRETE CURB PRECAST | LF | | | |
| STRAIGHT STANDARD 7.1.0 | | | | | | |
| | | ATWOOD AVE./MEMORIAL AVE. | | | | |
| | | EAST SIDE | | 10.00 | 0021 | 01 |
| | | WEST SIDE | | 10.00 | 0021 | 01 |
| | | BOSTON NECK RD./METTATUXET RD. | | | | |
| | | EAST SIDE | | 6.00 | 0021 | 01 |
| | | NE CORNER | | 3.00 | 0021 | 01 |
| | | SW CORNER | | 3.00 | 0021 | 01 |

Distribution of Quantities

Project Name - Pedestrian and Intersection Safety Improvements w/ Albion Beacon - STC
 Estimate Name - Addendum No. 1
 R.I. Contract No. - 2016-CH-055
 FAP Nos: STPG-0202(134)

| Item No. | Item Code | Description | UM | Qty. | Pay Code | Seq. No. |
|-----------------------------|----------------|--------------------------------|------|---------------|----------|----------|
| 049 | 906.0210 Cont. | WEST SIDE | | 3.00 | 0021 | 01 |
| | | COUNTY RD./BARTON AVE. | | | | |
| | | NORTH CORNER | | 8.00 | 0021 | 01 |
| | | SE CORNER | | 5.00 | 0021 | 01 |
| | | KINGSTOWN RD./SPRAGUE PARK | | | | |
| | | NORTH SIDE | | 13.00 | 0021 | 01 |
| | | SE CORNER | | 4.00 | 0021 | 01 |
| | | SW CORNER | | 10.00 | 0021 | 01 |
| | | OCEAN RD./DESANO DR. | | | | |
| | | NORTH SIDE | | 26.00 | 0021 | 01 |
| | | SOUTH SIDE | | 12.00 | 0021 | 01 |
| | | OCEAN RD./SAKONNET BLVD. | | | | |
| | | WEST SIDE | | 5.00 | 0021 | 01 |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | ROUNDAABOUT DESIGN | | | 0021 | 01 |
| Item 906.0210 Total: | | | | 118.00 | | |
| 050 | 906.0211 | CEMENT CONCRETE CURB PRECAST | LF | | | |
| | | CIRCULAR STANDARD 7.1.0 | | | | |
| | | BOSTON NECK RD./METTATUXET RD. | | | | |
| | | NE CORNER | | 3.00 | 0021 | 01 |
| | | NW CORNER | | 15.00 | 0021 | 01 |
| | | SE CORNER | | 6.00 | 0021 | 01 |
| | | SW CORNER | | 3.00 | 0021 | 01 |
| | | KINGSTOWN RD./SPRAGUE PARK | | | | |
| | | SE CORNER | | 5.00 | 0021 | 01 |
| | | OCEAN RD./DESANO DR. | | | | |
| | | NORTH SIDE | | 6.00 | 0021 | 01 |
| | | SOUTH SIDE | | 5.00 | 0021 | 01 |
| Item 906.0211 Total: | | | | 43.00 | | |
| 051 | 906.0221 | 6' PRECAST CONCRETE TRANSITION | EACH | | | |
| | | CURB STANDARD 7.1.2 | | | | |

Distribution of Quantities

Project Name - Pedestrian and Intersection Safety Improvements w/ Albion Beacon - STC
 Estimate Name - Addendum No. 1
 R.I. Contract No. - 2016-CH-055
 FAP Nos: STPG-0202(134)

| Item No. | Item Code | Description | UM | Qty. | Pay Code | Seq. No. |
|----------------------|----------------|---------------------------------|------|-------|----------|----------|
| 053 | 906.0250 Cont. | OCEAN RD./DESANO DR. | | | | |
| | | NORTH SIDE | | 4.00 | 0021 | 01 |
| | | SOUTH SIDE | | 4.00 | 0021 | 01 |
| | | OCEAN RD./SAKONNET BLVD. | | | | |
| | | WEST SIDE | | 3.00 | 0021 | 01 |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | ROUNDAABOUT DESIGN | | 2.00 | 0021 | 01 |
| Item 906.0250 Total: | | | | 39.00 | | |
| 054 | 906.0262 | PRECAST CONCRETE RAMP STONE | EACH | | | |
| | | 18-INCH STRAIGHT STANDARD 7.1.9 | | | | |
| | | ATWOOD AVE./MEMORIAL AVE. | | | | |
| | | EAST SIDE | | 1.00 | 0021 | 01 |
| | | WEST SIDE | | 1.00 | 0021 | 01 |
| | | BOSTON NECK RD./METTATUXET RD. | | | | |
| | | EAST SIDE | | 1.00 | 0021 | 01 |
| | | WEST SIDE | | 1.00 | 0021 | 01 |
| | | COUNTY RD./BARTON AVE. | | | | |
| | | NORTH SIDE | | 1.00 | 0021 | 01 |
| | | KINGSTOWN RD./SPRAGUE PARK | | | | |
| | | NORTH SIDE | | 1.00 | 0021 | 01 |
| | | OCEAN RD./DESANO DR. | | | | |
| | | NORTH SIDE | | 2.00 | 0021 | 01 |
| | | SOUTH SIDE | | 1.00 | 0021 | 01 |
| | | OCEAN RD./SAKONNET BLVD. | | | | |
| | | WEST SIDE | | 1.00 | 0021 | 01 |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | ROUNDAABOUT DESIGN | | 1.00 | 0021 | 01 |
| Item 906.0262 Total: | | | | 11.00 | | |
| 055 | 906.0263 | PRECAST CONCRETE RAMP STONE | EACH | | | |
| | | 18-INCH CIRCULAR STANDARD 7.1.9 | | | | |
| | | BOSTON NECK RD./METTATUXET RD. | | | | |

Distribution of Quantities

Project Name - Pedestrian and Intersection Safety Improvements w/ Albion Beacon - STC
 Estimate Name - Addendum No. 1
 R.I. Contract No. - 2016-CH-055
 FAP Nos: STPG-0202(134)

| Item No. | Item Code | Description | UM | Qty. | Pay Code | Seq. No. |
|----------|-----------|-----------------------------------|------|-------|----------|-------------|
| 085 | L06.0513 | WOOD CHIPS FURNISH AND SPREAD 4'' | SY | | | |
| | | DEPTH | | | | |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | ROUNDAABOUT DESIGN | | 32.00 | 0021 | 01 |
| | | Item L06.0513 Total: | | 32.00 | | |
| 086 | L06.9901 | FURNISH AND INSTALL SHRUB | EACH | | | |
| | | SMITH ST./JASTRAM ST. | | | | |
| | | SOUTHERN RAMP | | 3.00 | 0021 | 01 |
| | | Item L06.9901 Total: | | 3.00 | | |
| 087 | L08.0104 | SHRUB OR VINE PRUNING | MHRS | | | |
| | | COUNTY RD./BARTON AVE. | | | | |
| | | SW CORNER | | | 0021 | 01 |
| | | Item L08.0104 Total: | | | | **DELETED** |
| 088 | L11.0102 | TREE PLANT PROTECTION DEVICE | EACH | | | |
| | | STANDARD 51.1.0 | | | | |
| | | BROAD ST./TOWN HALL | | | | |
| | | SE SIDEWALK | | 1.00 | 0021 | 01 |
| | | SW SIDEWALK | | 1.00 | 0021 | 01 |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | ROUNDAABOUT DESIGN | | 1.00 | 0021 | 01 |
| | | Item L11.0102 Total: | | 3.00 | | |
| 089 | L11.0103 | SHRUB PLANT PROTECTION DEVICE | LF | | | |
| | | STANDARD 51.2.0 | | | | |
| | | COUNTY ROAD AT BARTON AVENUE | | | | |
| | | 131+85 R | | 15.00 | 0021 | 01 |
| | | SMITH STREET AT JASTRAM STREET | | | | |
| | | 1+44 R | | 8.00 | 0021 | 01 |
| | | Item L11.0103 Total: | | 23.00 | | |

Distribution of Quantities

Project Name - Pedestrian and Intersection Safety Improvements w/ Albion Beacon - STC
 Estimate Name - Addendum No. 1
 R.I. Contract No. - 2016-CH-055
 FAP Nos: STPG-0202(134)

| Item No. | Item Code | Description | UM | Qty. | Pay Code | Seq. No. |
|----------------------|----------------|---|----|--------|----------|----------|
| S098 | T05.1030 Cont. | SW CORNER | | 1.00 | 0021 | 01 |
| | | WARWICK AVE./CHURCH AVE. | | | | |
| | | NE CORNER | | 1.00 | 0021 | 01 |
| | | NW CORNER | | 1.00 | 0021 | 01 |
| | | SE CORNER | | 2.00 | 0021 | 01 |
| Item T05.1030 Total: | | | | 8.00 | | |
| S099 | T06.1020 | 2 IN. RIGID STEEL CONDUIT - UNDERGROUND | LF | | | |
| | | HARTFORD AVE./PETTEYS AVE. | | | | |
| | | TRAFFIC SIGNAL NO.841 | | 35.00 | 0021 | 01 |
| | | SOWAMS RD./EAST BAY BIKE PATH | | | | |
| | | 1+59 - 1+60 R | | 10.00 | 0021 | 01 |
| | | 1+61 - 1+51 R | | 20.00 | 0021 | 01 |
| | | 1+89 - 2+01 L | | 45.00 | 0021 | 01 |
| | | 2+06 - 2+21 L | | 60.00 | 0021 | 01 |
| | | WARWICK AVE./CHURCH AVE. | | | | |
| | | TRAFFIC SIGNAL NO.413 | | 110.00 | 0021 | 01 |
| Item T06.1020 Total: | | | | 280.00 | | |
| S100 | T06.1030 | 3 IN. RIGID STEEL CONDUIT-UNDERGROUND | LF | | | |
| | | WARWICK AVE./CHURCH AVE. | | | | |
| | | TRAFFIC SIGNAL NO.413 | | 10.00 | 0021 | 01 |
| Item T06.1030 Total: | | | | 10.00 | | |
| S101 | T06.2020 | 2 IN. RIGID STEEL CONDUIT-OVERHEAD | LF | | | |
| | | HARTFORD AVE./PETTEYS AVE. | | | | |
| | | TRAFFIC SIGNAL NO. 841 | | 10.00 | 0021 | 01 |
| | | SCHOOL ST./MAIN ST. ALBION FUTURE POWER | | 10.00 | 0021 | 01 |
| | | SOWAMS RD./EAST BAY BIKE PATH | | | | |
| | | 1+51 R | | 10.00 | 0021 | 01 |
| | | 2+22 L | | 10.00 | 0021 | 01 |
| | | WARWICK AVE./CHURCH AVE. | | | | |

Distribution of Quantities

Project Name - Pedestrian and Intersection Safety Improvements w/ Albion Beacon - STC
 Estimate Name - Addendum No. 1
 R.I. Contract No. - 2016-CH-055
 FAP Nos: STPG-0202(134)

| Item No. | Item Code | Description | UM | Qty. | Pay Code | Seq. No. |
|----------|----------------|---|----|-----------------------------|---------------|----------|
| S101 | T06.2020 Cont. | TRAFFIC SIGNAL NO. 413 | | 10.00 | 0021 | 01 |
| | | | | Item T06.2020 Total: | 50.00 | |
| S102 | T06.3020 | 2 IN. RIGID STEEL CONDUIT-UNDER EXISTING PAVEMENT | LF | | | |
| | | HARTFORD AVE./PETTEYS AVE | | | | |
| | | TRAFFIC SIGNAL NO. 841 | | 30.00 | 0021 | 01 |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | FUTURE BEACON POWER | | 50.00 | 0021 | 01 |
| | | SOWAMS RD./EAST BAY BIKE PATH | | | | |
| | | 1+60 - 1+61 R | | 20.00 | 0021 | 01 |
| | | 2+07 - 2+06 L | | 25.00 | 0021 | 01 |
| | | WARWICK AVE./CHURCH AVE. | | | | |
| | | TRAFFIC SIGNAL NO. 413 | | 100.00 | 0021 | 01 |
| | | | | Item T06.3020 Total: | 225.00 | |
| S103 | T06.5120 | 2 INCH SCHEDULE 40 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDERGROUND | LF | | | |
| | | WARWICK AVE./CHURCH AVE. | | | | |
| | | TRAFFIC SIGNAL NO. 413 | | 25.00 | 0021 | 01 |
| | | | | Item T06.5120 Total: | 25.00 | |
| S104 | T06.5320 | 2 INCH SCHEDULE 40 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDER EXISTING PAVEMENT | LF | | | |
| | | HARTFORD AVE./PETTEYS AVE. | | | | |
| | | TRAFFIC SIGNAL NO. 841 | | 20.00 | 0021 | 01 |
| | | | | Item T06.5320 Total: | 20.00 | |
| S105 | T06.5420 | 2 INCH SCHEDULE 80 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDER EXISTING PAVEMENT | LF | | | |

Distribution of Quantities

Project Name - Pedestrian and Intersection Safety Improvements w/ Albion Beacon - STC
 Estimate Name - Addendum No. 1
 R.I. Contract No. - 2016-CH-055
 FAP Nos: STPG-0202(134)

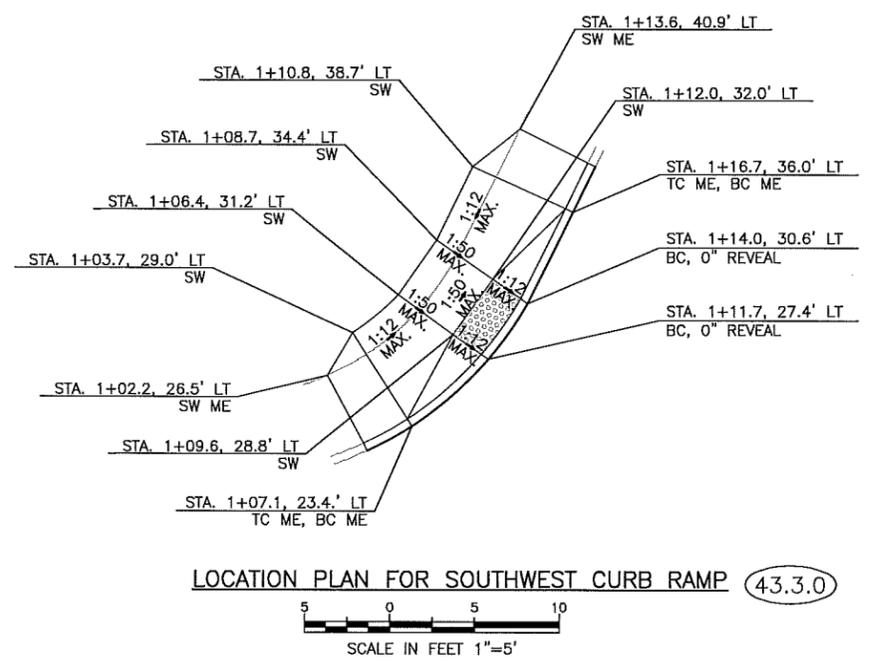
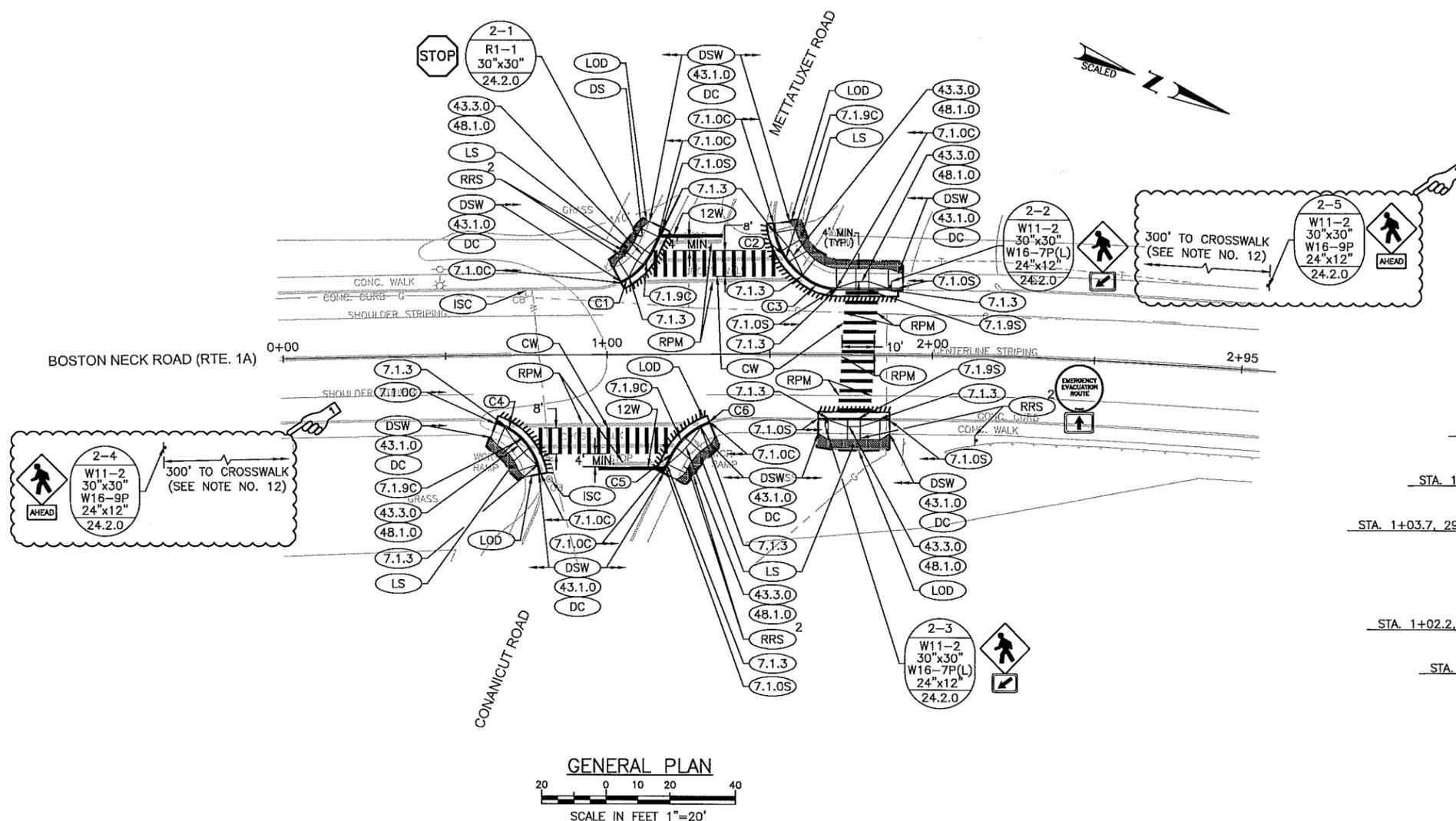
| Item No. | Item Code | Description | UM | Qty. | Pay Code | Seq. No. |
|----------|----------------|--------------------------------------|------|--------|----------|----------|
| S105 | T06.5420 Cont. | WARWICK AVE./CHURCH AVE. | | | | |
| | | TRAFFIC SIGNAL NO. 413 | | 170.00 | 0021 | 01 |
| | | Item T06.5420 Total: | | 170.00 | | |
| S106 | T06.6020 | 2 INCH POLYVINYL CHLORIDE PLASTIC | LF | | | |
| | | CONDUIT-OVERHEAD | | | | |
| | | HARTFORD AVE./PETTEYS AVE. | | | | |
| | | TRAFFIC SIGNAL NO. 841 | | 15.00 | 0021 | 01 |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |
| | | FUTURE POWER | | 15.00 | 0021 | 01 |
| | | SOWAMS RD./EAST BAY BIKE PATH | | | | |
| | | 1+51 R | | 15.00 | 0021 | 01 |
| | | 2+22 L | | 15.00 | 0021 | 01 |
| | | WARWICK AVE./CHURCH AVE. | | | | |
| | | TRAFFIC SIGNAL NO. 413 | | 15.00 | 0021 | 01 |
| | | Item T06.6020 Total: | | 75.00 | | |
| S107 | T11.2008 | TRAFFIC SIGNAL STANDARD, 8 FOOT, STD | EACH | | | |
| | | 19.4.0 ALUMINUM PEDESTAL POLE AND | | | | |
| | | FOUNDATION | | | | |
| | | HARTFORD AVE./PETTEYS AVE. | | | | |
| | | TRAFFIC SIGNAL NO. 841 | | 6.00 | 0021 | 01 |
| | | WARWICK AVE./CHURCH AVE. | | | | |
| | | TRAFFIC SIGNAL NO. 413 | | 8.00 | 0021 | 01 |
| | | Item T11.2008 Total: | | 14.00 | | |
| S108 | T11.9901 | FURNISH AND INSTALL CROSSWALK | LS | | | |
| | | WARNING SYSTEM | | | | |
| | | SOWAMS RD./EAST BAY BIKE PATH | | | | |
| | | 1+59 R, 1+90 L | | 1.00 | 0021 | 01 |
| | | Item T11.9901 Total: | | 1.00 | | |
| S109 | T11.9902 | REPAIR AND INSTALL DECORATIVE | LS | | | |
| | | BEACON | | | | |
| | | SCHOOL ST./MAIN ST. ALBION | | | | |

Distribution of Quantities

Project Name - Pedestrian and Intersection Safety Improvements w/ Albion Beacon - STC
 Estimate Name - Addendum No. 1
 R.I. Contract No. - 2016-CH-055
 FAP Nos: STPG-0202(134)

| Item No. | Item Code | Description | UM | Qty. | Pay Code | Seq. No. |
|----------|-----------|--|------|-------|----------|----------|
| S143 | T20.9901 | EPOXY RESIN PAVEMENT MARKING - BIKE SYMBOL | EACH | | | |
| | | SOWAM RD./EAST BAY BIKE PATH | | | | |
| | | 0+18 R | | 1.00 | 0021 | 01 |
| | | 2+48 L | | 1.00 | 0021 | 01 |
| | | Item T20.9901 Total: | | 2.00 | | |
| S144 | T20.9902 | EPOXY RESIN PAVEMENT MARKING WORD "BUMP" | EACH | | | |
| | | HARTFORD AVE./PETTEYS AVE. | | | | |
| | | 1+59 R | | 1.00 | 0021 | 01 |
| | | Item T20.9902 Total: | | 1.00 | | |
| 145 | 501.9901 | CONCRETE TRUCK APRON | CY | | | |
| | | SCHOOL ST./MAIN ST. ALBION ROUNDAABOUT DESIGN | | 11.00 | | |
| | | Item 501.9901 Total: | | 11.00 | | |
| 146 | 712.0100 | WATER GATE BOX | EACH | | | |
| | | FROM 713.8269 | | | | |
| | | 50% CONTIGENCY | | 5.00 | 0021 | 01 |
| | | Item 712.0100 Total: | | 5.00 | | |
| 147 | 712.0200 | GAS GATE BOX | EACH | | | |
| | | FROM 713.8300 | | | | |
| | | 50% CONTINGENCY | | 5.00 | 0021 | 01 |
| | | Item 712.0200 Total: | | 5.00 | | |

| CURVE | RADIUS | LENGTH | TANGENT | DELTA | CHORD |
|-------|--------|--------|---------|-----------|--------|
| C1 | 21.00' | 13.00' | 6.72' | 35°28'24" | 12.79' |
| C2 | 22.00' | 19.00' | 10.14' | 49°29'29" | 18.42' |
| C3 | 16.00' | 11.50' | 6.01' | 41°11'08" | 11.26' |
| C4 | 20.00' | 22.00' | 12.26' | 63°01'39" | 20.91' |
| C5 | 27.00' | 6.00' | 3.01' | 12°44'10" | 5.99' |
| C6 | 22.00' | 13.00' | 6.70' | 33°51'55" | 12.81' |



GENERAL NOTES:

1. THE SIDEWALK WORK SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE RI STANDARD SPECIFICATIONS.
2. THE WIDTH OF THE RAMP SHALL BE A MINIMUM OF 4 FEET.
3. THE DISTANCE BETWEEN THE STOP BAR AND THE CROSSWALK SHALL BE A MINIMUM OF 4 FEET.
4. THE WIDTH OF THE CROSSWALK SHALL BE A MINIMUM DISTANCE OF 8 FEET.
5. THE CROSS SLOPE SHALL NOT EXCEED 1:50 AND THE LONGITUDINAL SLOPE SHALL NOT EXCEED 1:12, EXCEPT AT THE LANDINGS WHERE IT SHALL NOT EXCEED 1:50.
6. AT NO TIME IS ANY PART OF THE RAMP TO BE LOCATED OUTSIDE THE CROSSWALK. THE RAMP SHOULD BE CENTERED WITHIN THE CROSSWALK.
7. THE ENTRANCE OF THE RAMP SHALL BE FLUSH WITH THE ROADWAY.
8. DETECTABLE WARNING PANELS ARE TO BE PAID FOR UNDER SECTION 942 OF THE RI STANDARD SPECIFICATIONS.
9. STOP (R1-1), EVACUATION ROUTE MARKER (EM-1), AND STRAIGHT ARROW (M6-3) SIGNS SHALL BE RELOCATED WITH NEW SIGN POSTS IN ACCORDANCE WITH RI STANDARD 24.2.0.
10. THE BASELINE SHOWN IS GRAPHIC ONLY AND IS INTENDED TO BE USED FOR LOCATING AND ESTIMATING QUANTITIES.
11. THERE SHALL BE NO PARKING OR STORING OF CONSTRUCTION EQUIPMENT UNDER THE DRIPLINE OF ANY TREES.
12. APPROACHES SHALL HAVE W11-2 (30"x30") AND W16-9P (24"x12") SIGNS INSTALLED WITH A NEW SIGN POST IN ACCORDANCE WITH RI STANDARD 24.2.0 ON BOTH SIDES OF BOSTON NECK ROAD APPROXIMATELY 300 FEET FROM THE CROSSWALK AS DIRECTED BY THE ENGINEER. THE FINAL LOCATION OF THE SIGNS SHALL BE COORDINATED IN THE FIELD SO THAT THE SIGN IS NOT OBSTRUCTED BY THE TREE LINE, UTILITY POLES, AND OTHER APPURTENANCES. IN ADDITION SIGN POSTS SHALL NOT BE INSTALLED DIRECTLY ABOVE UNDERGROUND UTILITIES.

ABBREVIATIONS:

- BC BOTTOM OF CURB
- LT LEFT
- MAX. MAXIMUM
- ME MATCH EXISTING
- RT RIGHT
- STA. STATION
- SW SIDEWALK
- TC TOP OF CURB

ADDENDUM NO. 1



| REVISIONS | | | NO. | DATE | BY |
|-----------|---------|-----|-----|------|----|
| | | | | | |
| 1 | 10/2016 | LGA | | | |

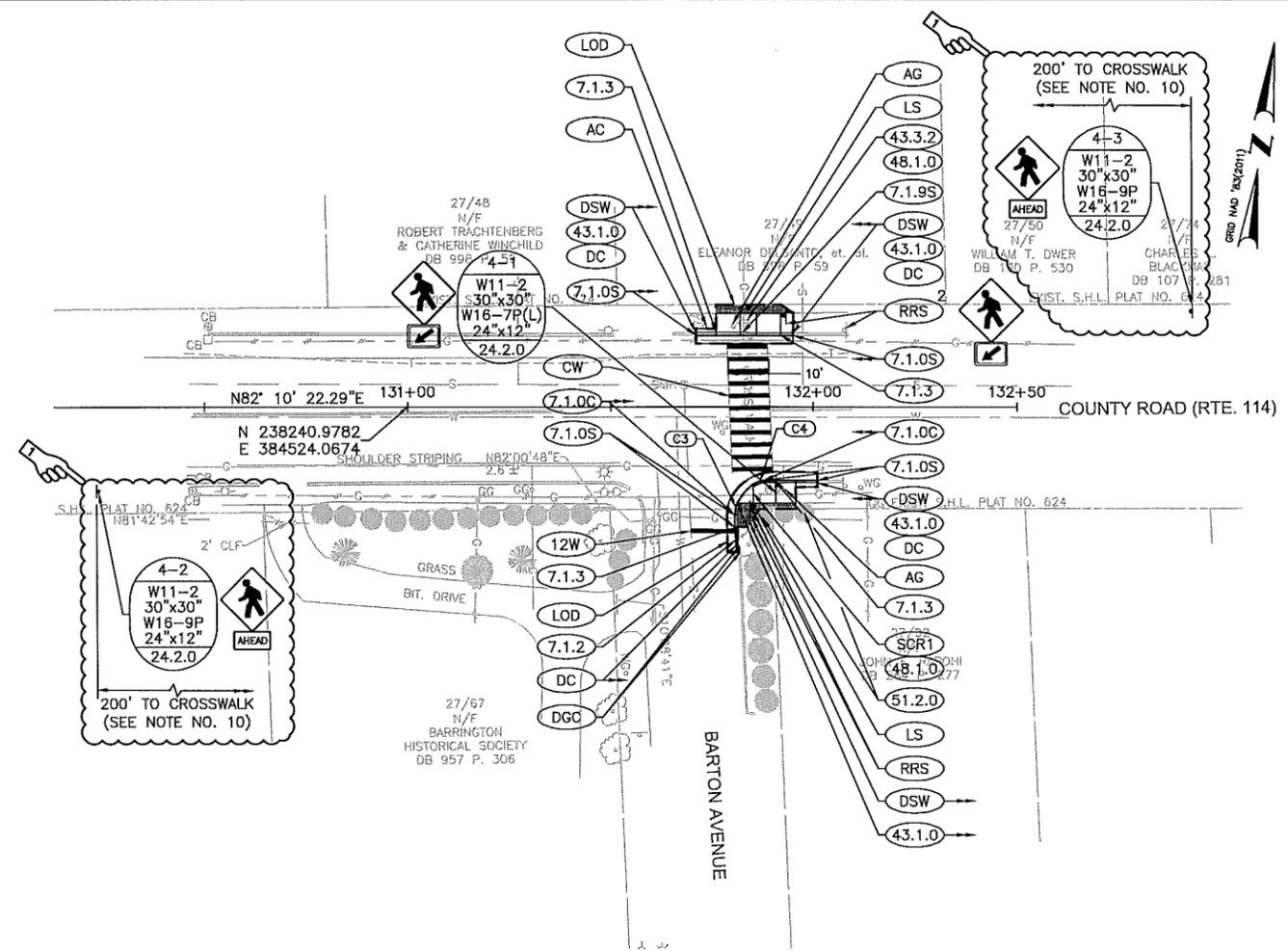
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

**PEDESTRIAN AND INTERSECTION
SAFETY IMPROVEMENTS -
STATE TRAFFIC COMMISSION**

VARIOUS LOCATIONS RHODE ISLAND

GENERAL AND LOCATION PLAN NO.2
BOSTON NECK ROAD AT METTATUXET ROAD
NARRAGANSETT RHODE ISLAND

CHECKED BY _____ DATE _____ SCALE AS NOTED



GENERAL PLAN
SCALE IN FEET 1"=20'

| CURB CURVE TABLE | | | | | |
|------------------|--------|--------|---------|-----------|-------|
| CURVE | RADIUS | LENGTH | TANGENT | DELTA | CHORD |
| C1 | 10.00' | 4.00' | 2.03' | 22°55'06" | 3.97' |
| C2 | 24.00' | 6.00' | 3.02' | 14°19'26" | 5.98' |
| C3 | 8.00' | 3.00' | 1.52' | 21°29'07" | 2.98' |
| C4 | 6.00' | 3.00' | 1.53' | 28°40'25" | 2.97' |

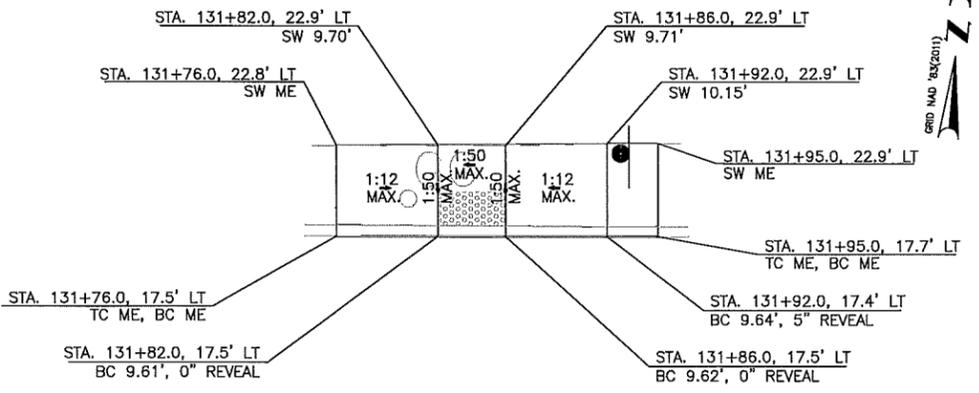
GENERAL NOTES:

1. THE SIDEWALK WORK SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE RI STANDARD SPECIFICATIONS.
2. THE WIDTH OF THE RAMP SHALL BE A MINIMUM OF 4 FEET.
3. THE CROSS SLOPE SHALL NOT EXCEED 1:50 AND THE LONGITUDINAL SLOPE SHALL NOT EXCEED 1:12, EXCEPT AT THE LANDINGS WHERE IT SHALL NOT EXCEED 1:50.
4. AT NO TIME IS ANY PART OF THE RAMP TO THE ROADWAY TO BE LOCATED OUTSIDE THE CROSSWALK. THE RAMP SHOULD BE CENTERED WITHIN THE CROSSWALK.
5. THE ENTRANCE OF THE RAMP SHALL BE FLUSH WITH THE ROADWAY.
6. DETECTABLE WARNINGS PANELS ARE TO BE PAID FOR UNDER SECTION 942 OF THE RI STANDARD SPECIFICATIONS.
7. PEDESTRIAN CROSSING (W11-2) AND DOWNWARD DIAGONAL ARROW (W16-7P(L)) SIGNS SHALL BE RELOCATED WITH A NEW SIGN POST IN ACCORDANCE WITH RI STANDARD 24.2.0.
8. THERE SHALL BE NO PARKING OR STORING OF CONSTRUCTION EQUIPMENT UNDER THE DRIPLINE OF ANY TREES.
9. THE SCRX CALLOUT IS FOR INFORMATIONAL PURPOSES ONLY. THE FORMING OF THE CURB RAMP WILL BE CONSIDERED INCIDENTAL TO THE COST OF SIDEWALK (ITEM CODE 905.0110). THERE ARE NO SEPARATE PAY CODES FOR THE SPECIAL CURB RAMP.
10. BOTH APPROACHES OF COUNTY ROAD SHALL HAVE W11-2 (30"x30") AND W16-9P (24"x12") SIGNS INSTALLED WITH A NEW SIGN POST IN ACCORDANCE WITH RI STANDARD 24.2.0 APPROXIMATELY 200 FEET FROM THE CROSSWALK AS DIRECTED BY THE ENGINEER. THE FINAL LOCATION OF THE SIGNS SHALL BE COORDINATED IN THE FIELD SO THAT THE SIGN IS NOT OBSTRUCTED BY THE TREE LINE, UTILITY POLES, AND OTHER APPURTENANCES. IN ADDITION SIGN POSTS SHALL NOT BE INSTALLED DIRECTLY ABOVE UNDERGROUND UTILITIES.

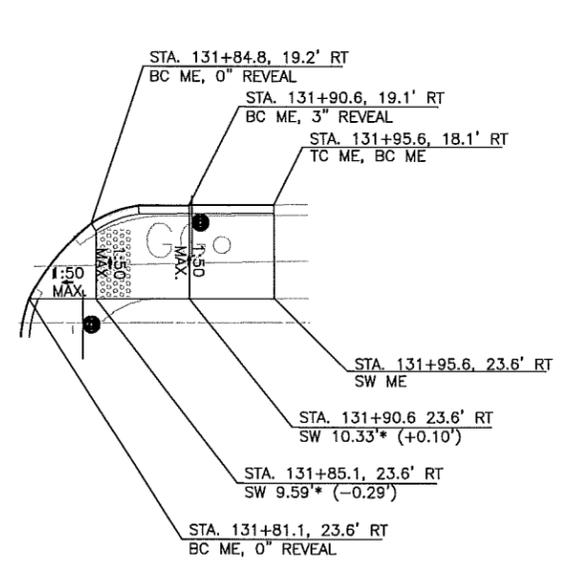
ADDENDUM NO. 1

ABBREVIATIONS:

- BC BOTTOM OF CURB
 - LT LEFT
 - MAX. MAXIMUM
 - ME MATCH EXISTING
 - RT RIGHT
 - STA. STATION
 - SW SIDEWALK
 - TC TOP OF CURB
- * THE BACK OF THE SIDEWALK MUST BE LOWERED/RASIED TO ACHIEVE ADA-COMPLIANT SIDEWALK SLOPES



LOCATION PLAN FOR NORTH CURB RAMP (43.3.2)
SCALE 1" = 5'



LOCATION PLAN FOR EAST CURB RAMP (SCR1)
SCALE 1" = 5'

SCALE IN FEET 1"=5'

BASE OF LEVELS
NAVD 1988
NAD '83 (2011)

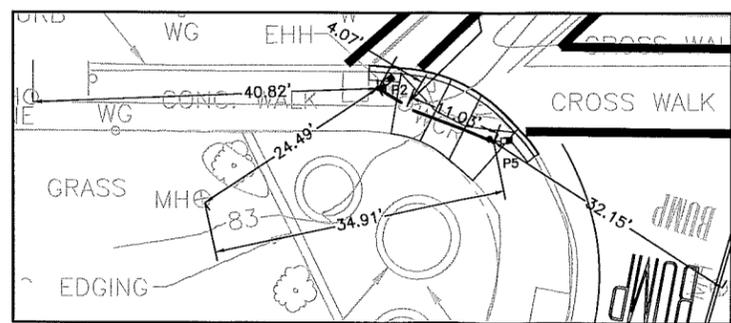
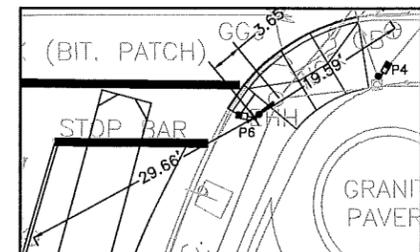
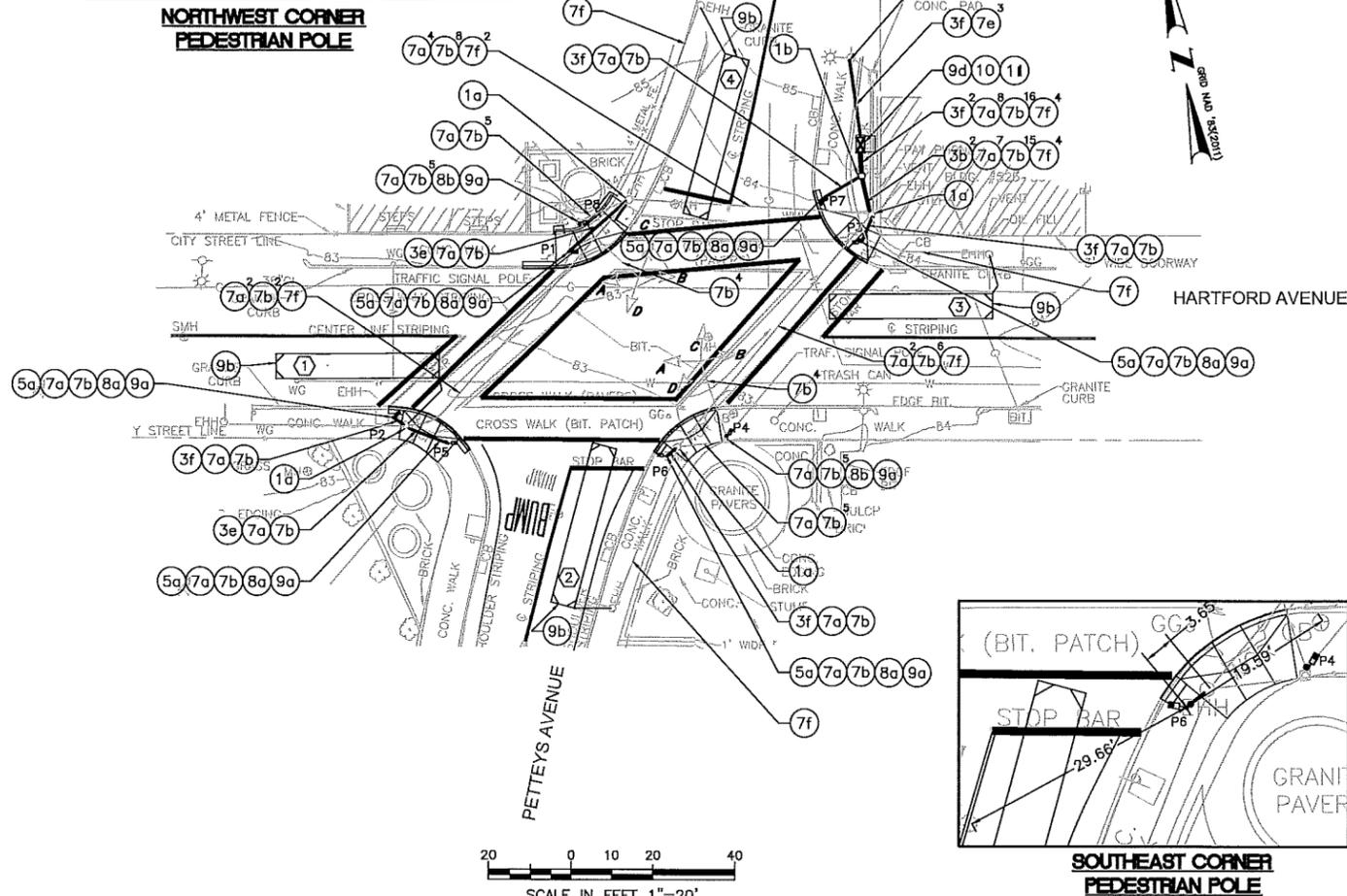
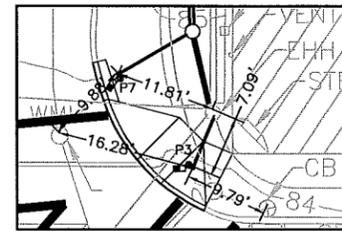
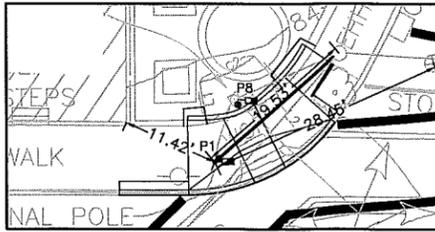
BRYANT ASSOCIATES
Engineers Surveyors Construction Managers
640 George Washington Hwy, Bldg. C, Suite 100
Lincoln, Rhode Island 02865

| REVISIONS | | | RHODE ISLAND DEPARTMENT OF TRANSPORTATION | |
|-----------|---------|-----|--|--|
| NO. | DATE | BY | PEDESTRIAN AND INTERSECTION SAFETY IMPROVEMENTS - STATE TRAFFIC COMMISSION | |
| 1 | 10/2016 | LGA | VARIOUS LOCATIONS RHODE ISLAND | |
| | | | GENERAL AND LOCATION PLAN NO.4 | |
| | | | COUNTY ROAD AT BARTON AVENUE | |
| | | | BARRINGTON RHODE ISLAND | |
| | | | CHECKED BY _____ DATE _____ SCALE AS NOTED | |

| NO. | ITEM CODE | SYMBOL | ITEM DESCRIPTION |
|-----|-----------|--------|---|
| 1a | T05.0400 | | Break into Existing Handhole |
| 1b | T05.0100 | ○ | Precast Type A Handhole Standard 18.2.0 |
| 3b | T06.5320 | | 2-Inch Schedule 40 Polyvinyl Chloride Plastic Conduit - Under Existing Pavement |
| 3c | T06.6020 | | 2-Inch Schedule 40 Polyvinyl Chloride Plastic Conduit - Overhead |
| 3e | T06.1020 | | 2-Inch Rigid Steel Conduit - Underground |
| 3f | T06.3020 | | 2-Inch Rigid Steel Conduit - Under Existing Pavement |
| 3g | T06.2020 | | 2-Inch Rigid Steel Conduit - Overhead |
| 5a | T11.2008 | ● | Traffic Signal Standard, 8 Foot, Std. 19.4.0 Aluminum Pole and Foundation |
| 7a | T04.5303 | | 14 AWG 3 Conductor Cable |
| 7b | T04.5305 | | 14 AWG 5 Conductor Cable |
| 7e | T04.5001 | | 6 AWG Single Conductor Cable 600V Insulation |
| 7f | T04.5302 | | Loop Detector Shielded, Twisted Cable, 2 Conductor, No. 14 AWG |
| 8a | T14.9901 | — | 1-Way Pedestal Mounted L.E.D. Pedestrian Signal Head With Countdown Timer, 12-Inch |
| 8b | T14.9902 | — | 1-Way Bracket Mounted L.E.D. Pedestrian Signal Head With Countdown Timer, 12-Inch |
| 9a | T13.8210 | ● | Accessible Pedestrian Pushbutton Detector with Sign and Associated Equipment |
| 9b | T13.1000 | — | Traffic Detectors - Loop, Standard 19.6.0 |
| 9d | T13.1004 | — | Loop Detector Relay - 4 Channel |
| 10 | T12.0018 | ☒ | Actuated Controller TS-2, Type 1 W/B Phase Assembly Ground Mounted Including Foundation and Cabinet Std. 19.1.0 |
| 11 | T12.9150 | | Meter Socket W/ Manual By-Pass |

TRAFFIC SIGNAL CONSTRUCTION NOTES:

- SEE STANDARD NOTES - 2 AND JOB SPECIFIC PLAN SYMBOLS, LEGEND, & NOTES NO. 3 FOR ADDITIONAL REQUIREMENTS.
- THE EXISTING CONDUIT NETWORK SHOWN ON THE PLAN IS BASED ON LIMITED FIELD VERIFICATION. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDUIT LOCATIONS AND SIZES FOR ACCURACY AND ADEQUACY PRIOR TO PERFORMING THE WORK.
- ALL NEW FOUNDATIONS SHALL BE SET FLUSH WITH FINISH GRADE.
- ALL PEDESTRIAN PUSH BUTTONS SHALL BE PLACED ADJACENT TO A LEVEL SIDEWALK.
- MAXIMUM REACH FROM THE LEVEL LANDING AREA TO THE PEDESTRIAN PUSH BUTTON SHALL NOT EXCEED 10 INCHES.
- THE CONTROLLER CABINET DOOR SHALL OPEN TO LANDING AREA IN FRONT OF THE BUILDING.
- THE OPERATION TO SWITCH FROM THE EXISTING CONTROLLER SHALL TAKE PLACE DURING A SINGLE NIGHT. AT ANY POINT WHILE THE SIGNAL IS NOT IN OPERATION, THE INTERSECTION SHALL BE CONTROLLED BY TRAFFIC PERSONS.



SIGNAL HEAD DATA

P1-P8

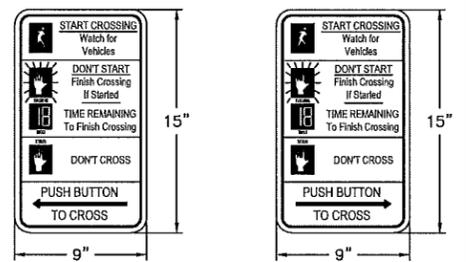
(ALL L.E.D. MODULES)

ALL 12" LENS

NOTES:

- ALL TRAFFIC SIGNAL HEADS ARE EXISTING.
- PEDESTRIAN SIGNAL FACES SHALL BE L.E.D. FILLED-IN HAND/MAN SYMBOLS.

PEDESTRIAN DETECTOR SIGN DETAIL (R10-3e(L))



NOTE:

- ALL SIGNS INSTALLED AT PROPOSED PEDESTRIAN PUSH BUTTONS SHALL BE MUTCD CODE R10-3e (LEFT OR RIGHT) AND SHALL BE INSTALLED SUCH THAT THE CROSSING ASSIGNED TO EACH BUTTON IS CLEARLY INDICATED.

TRAFFIC SIGNAL NO. 841

REMOVE AND SALVAGE TRAFFIC SIGNAL EQUIPMENT

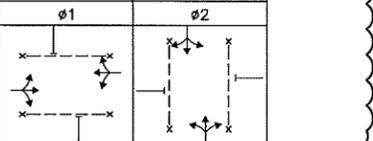
| | |
|-----|-------------------------------------|
| 1 | CONTROLLER, CABINET & APPURTENANCES |
| ALL | WIRING |

SEQUENCE AND TIMING DIAGRAM

| APPROACH | DIRECTION | HOUSING | φ1 | φ2 | FLASHING OPERATION |
|-------------------|-----------|---------|-------------------|-------------|--------------------|
| MINIMUM INTERVAL | | | 10 | 7 | |
| VEHICLE EXTENSION | | | 4.4 | 4.4 | |
| MAXIMUM 1 | | | 28 | 20 | |
| MAXIMUM 2 | | | 28 | 20 | |
| YELLOW CLEARANCE | | | 3 | 4 | |
| RED CLEARANCE | | | | 2 | 2 |
| PED. WALK/CHANGE | | | 7/18 | 7/16 | |
| HARTFORD AVENUE | EB | A | G Y R R R R | R R R R | FY |
| HARTFORD AVENUE | WB | B | G Y R R R R | R R R R | FY |
| GLENBRIDGE AVENUE | SB | C | R R R G Y R | R R R R | FR |
| PETTEYS AVENUE | NB | D | R R R R G Y R | R R R R | FR |
| PEDESTRIAN X-ING | N-S | P1-P4 | DW DW DW W/FDW | DW DW DW DW | DARK |
| | E-W | P5-P8 | W/FDW DW DW DW DW | DW DW DW DW | DARK |

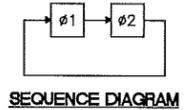
SEQUENCE AND TIMING NOTES:

- FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.28-4D.31.
- MAXIMUM 1 = NORMAL OPERATION
- MAXIMUM 2 = NOT USED
- PED W/FDW UPON PUSHBUTTON ACTUATION ONLY.



LOOP DETECTOR DATA

| DETECTOR NO. | NO. SECTION/ SIZE | RELAY NUMBER | SLOT | DELAY (SEC) | CALL PHASE | REMARKS |
|--------------|-------------------|--------------|------|-------------|------------|----------|
| 1 | 1-6'x40' | 1 | 2 | 3 | φ1 | PROPOSED |
| 2 | 1-6'x40' | 1 | 2 | 3 | φ2 | PROPOSED |
| 3 | 1-6'x40' | 1 | 2 | 3 | φ1 | PROPOSED |
| 4 | 1-6'x40' | 1 | 2 | 3 | φ2 | PROPOSED |



TRAFFIC SIGNAL PLAN NO.1

HARTFORD AVENUE AT PETTEYS AVENUE

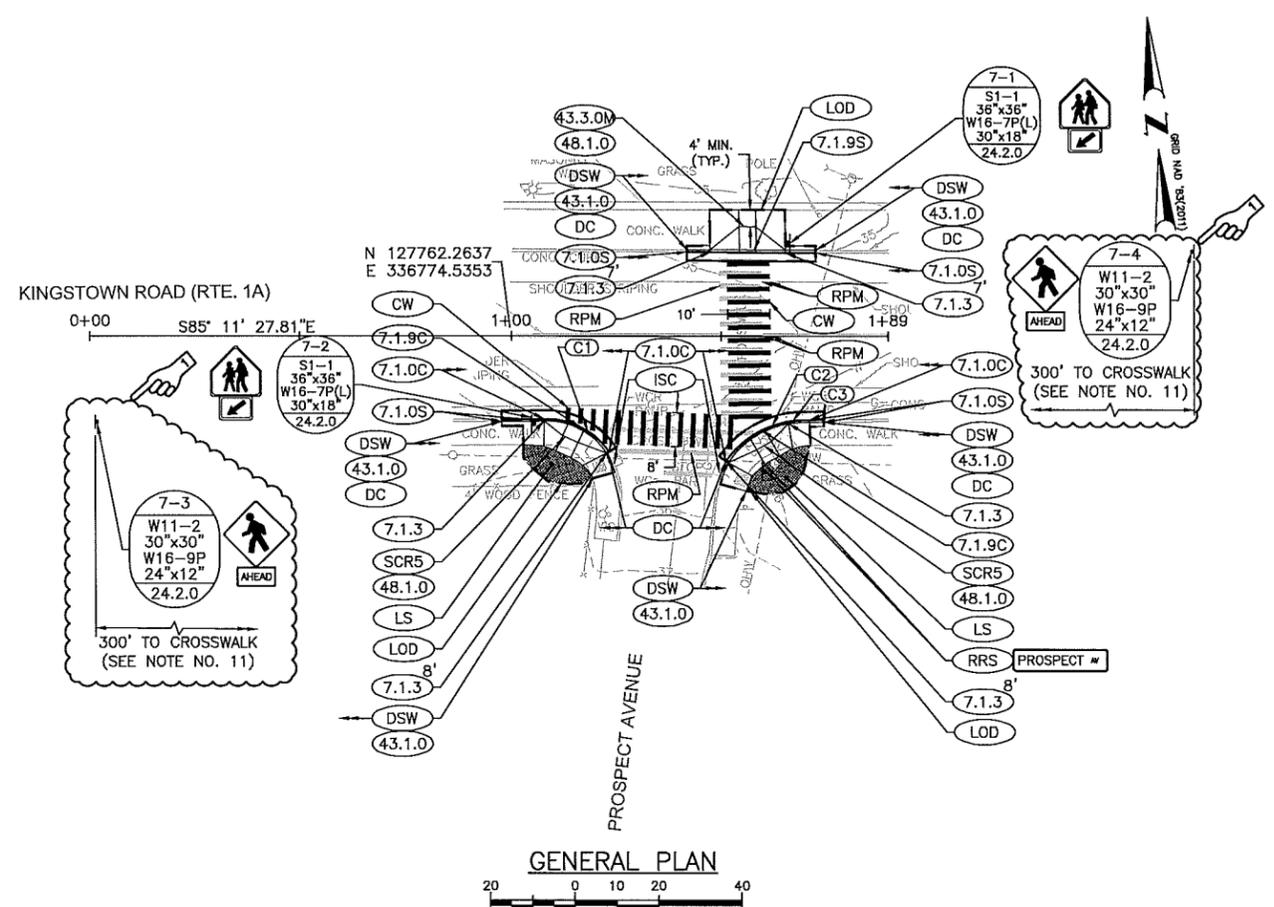
PROVIDENCE RHODE ISLAND

CHECKED BY _____ DATE _____ SCALE AS NOTED

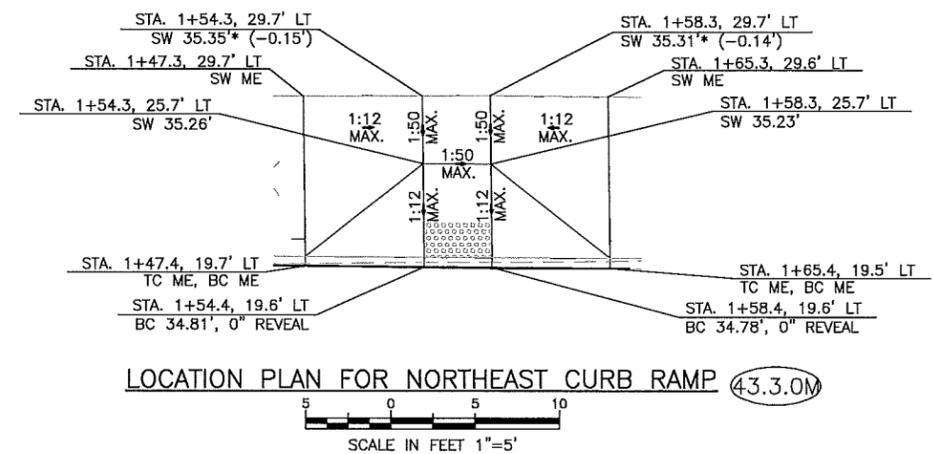
BRYANT ASSOCIATES

Engineers Surveyors Construction Managers
640 George Washington Hwy, Bldg. C, Suite 100
Lincoln, Rhode Island 02865

ADDENDUM NO. 1



| CURVE | RADIUS | LENGTH | TANGENT | DELTA | CHORD |
|-------|--------|--------|---------|-----------|--------|
| C1 | 18.00' | 18.00' | 9.83' | 57°17'55" | 17.26' |
| C2 | 23.00' | 18.00' | 9.49' | 44°50'25" | 17.54' |
| C3 | 35.00' | 5.00' | 2.50' | 8°11'06" | 5.00' |



GENERAL NOTES:

1. THE SIDEWALK WORK SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE RI STANDARD SPECIFICATIONS.
2. THE WIDTH OF THE RAMP SHALL BE A MINIMUM OF 4 FEET.
3. THE CROSS SLOPE SHALL NOT EXCEED 1:50 AND THE LONGITUDINAL SLOPE SHALL NOT EXCEED 1:12, EXCEPT AT THE LANDINGS WHERE IT SHALL NOT EXCEED 1:50.
4. AT NO TIME IS ANY PART OF THE RAMP TO THE ROADWAY TO BE LOCATED OUTSIDE THE CROSSWALK. THE RAMP SHOULD BE CENTERED WITHIN THE CROSSWALK.
5. THE ENTRANCE OF THE RAMP SHALL BE FLUSH WITH THE ROADWAY.
6. DETECTABLE WARNING PANELS ARE TO BE PAID FOR UNDER SECTION 942 OF THE RI STANDARD SPECIFICATIONS.
7. STREET SIGN FOR PROSPECT AVENUE SHALL BE RELOCATED WITH A NEW SIGN POST IN ACCORDANCE WITH RI STANDARDS 24.2.0 AND 24.6.1.
8. THERE SHALL BE NO PARKING OR STORING OF CONSTRUCTION EQUIPMENT UNDER THE DRIPLINE OF ANY TREES.
9. THE SCR5 CALLOUT IS FOR INFORMATIONAL PURPOSES ONLY. THE FORMING OF THE CURB RAMP WILL BE CONSIDERED INCIDENTAL TO THE COST OF SIDEWALK (ITEM CODE 905.0110). THERE ARE NO SEPARATE PAY CODES FOR THE SPECIAL CURB RAMP.
10. AT LOCATIONS WHERE THE SIDEWALK IS TO BE REMOVED AT THE BACK OF WALK IN THE VICINITY OF A STONE WALL, A SAWCUT SHALL BE PERFORMED 6 INCHES FROM THE WALL AND THE SIDEWALK SHALL BE CAREFULLY REMOVED IN SUCH A MANNER THAT DOES NOT DISTURB THE STONE WALL AND IN ACCORDANCE WITH ITEM 201.9904 AND NOTE 7 OF THE JOB SPECIFIC GENERAL NOTES.
11. BOTH APPROACHES OF KINGSTOWN ROAD SHALL HAVE W11-2 (30"x30") AND W16-9P (24"x12") SIGNS INSTALLED WITH A NEW SIGN POST IN ACCORDANCE WITH RI STANDARD 24.2.0 APPROXIMATELY 300 FEET FROM THE CROSSWALK AS DIRECTED BY THE ENGINEER. THE FINAL LOCATION OF THE SIGNS SHALL BE COORDINATED IN THE FIELD SO THAT THE SIGN IS NOT OBSTRUCTED BY THE TREE LINE, UTILITY POLES, AND OTHER APPURTENANCES. IN ADDITION SIGN POSTS SHALL NOT BE INSTALLED DIRECTLY ABOVE UNDERGROUND UTILITIES.

ABBREVIATIONS:

- BC BOTTOM OF CURB
- LT LEFT
- MAX. MAXIMUM
- ME MATCH EXISTING
- RT RIGHT
- STA. STATION
- SW SIDEWALK
- TC TOP OF CURB

* THE BACK OF THE SIDEWALK MUST BE LOWERED TO ACHIEVE ADA-COMPLIANT SIDEWALK SLOPES

ADDENDUM NO. 1

BASE OF LEVELS
NAVD 1988
NAD '83 (2011)

BRYANT ASSOCIATES
Engineers Surveyors Construction Managers
640 George Washington Hwy, Bldg. C, Suite 100
Lincoln, Rhode Island 02865

| REVISIONS | | |
|-----------|---------|-----|
| NO. | DATE | BY |
| 1 | 10/2016 | LGA |

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

**PEDESTRIAN AND INTERSECTION
SAFETY IMPROVEMENTS -
STATE TRAFFIC COMMISSION**

VARIOUS LOCATIONS RHODE ISLAND

GENERAL AND LOCATION PLAN NO.7
KINGSTOWN ROAD AT SPRAGUE PARK
NARRAGANSETT RHODE ISLAND

CHECKED BY _____ DATE _____ SCALE AS NOTED

| NO. | ITEM CODE | SYMBOL | ITEM DESCRIPTION |
|-----|-----------|--------|---|
| 1a | T05.0400 | | Break into Existing Handhole |
| 1b | T05.0100 | ○ | Precast Type A Handhole Standard 18.2.0 |
| 3a | T06.5120 | | 2-Inch Schedule 40 Polyvinyl Chloride Plastic Conduit - Underground |
| 3b | T06.5320 | | 2-Inch Schedule 40 Polyvinyl Chloride Plastic Conduit - Under Existing Pavement |
| 3c | T06.6020 | | 2-Inch Schedule 40 Polyvinyl Chloride Plastic Conduit - Overhead |
| 3d | T06.5420 | | 2-Inch Schedule 80 Polyvinyl Chloride Plastic Conduit - Under Existing Pavement |
| 3e | T06.1020 | | 2-Inch Rigid Steel Conduit - Underground |
| 3f | T06.3020 | | 2-Inch Rigid Steel Conduit - Under Existing Pavement |
| 3g | T06.2020 | | 2-Inch Rigid Steel Conduit - Overhead |
| 3h | T06.1030 | | 3-Inch Rigid Steel Conduit - Underground |
| 5a | T11.2008 | ● | Traffic Signal Standard, 8 Foot, Std. 19.4.0 Aluminum Pole and Foundation |
| 7a | T04.5303 | | 14 AWG 3 Conductor Cable |
| 7b | T04.5305 | | 14 AWG 5 Conductor Cable |
| 7c | T04.5307 | | 14 AWG 7 Conductor Cable |
| 7d | T04.5309 | | 14 AWG 9 Conductor Cable |
| 7e | T04.5001 | | 6 AWG Single Conductor Cable 600V Insulation |
| 7f | T04.5302 | | Loop Detector Shielded, Twisted Cable, 2 Conductor, No. 14 AWG |
| 8a | T14.9901 | — | 1-Way Pedestal Mounted L.E.D. Pedestrian Signal Head With Countdown Timer, 12-Inch |
| 9a | T13.8210 | ● | Accessible Pedestrian Pushbutton Detector with Sign and Associated Equipment |
| 9b | T13.1000 | □ | Traffic Detectors - Loop, Standard 19.6.0 |
| 9c | T13.1002 | | Loop Detector Relay - 2 Channel |
| 9d | T13.1004 | | Loop Detector Relay - 4 Channel |
| 10 | T12.0018 | ⊠ | Actuated Controller TS-2, Type 1 W/8 Phase Assembly Ground Mounted Including Foundation and Cabinet Std. 19.1.0 |
| 11 | T12.9150 | | Meter Socket W/ Manual By-Pass |

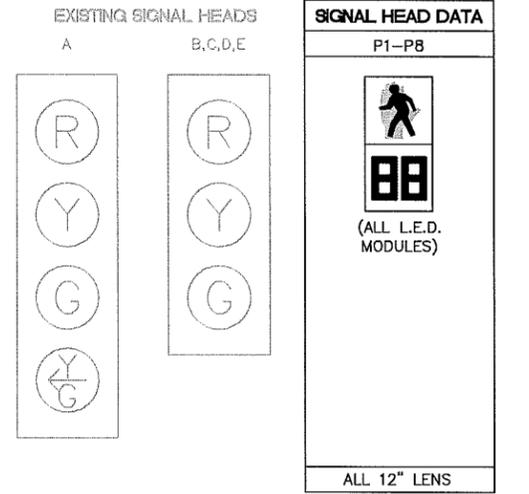
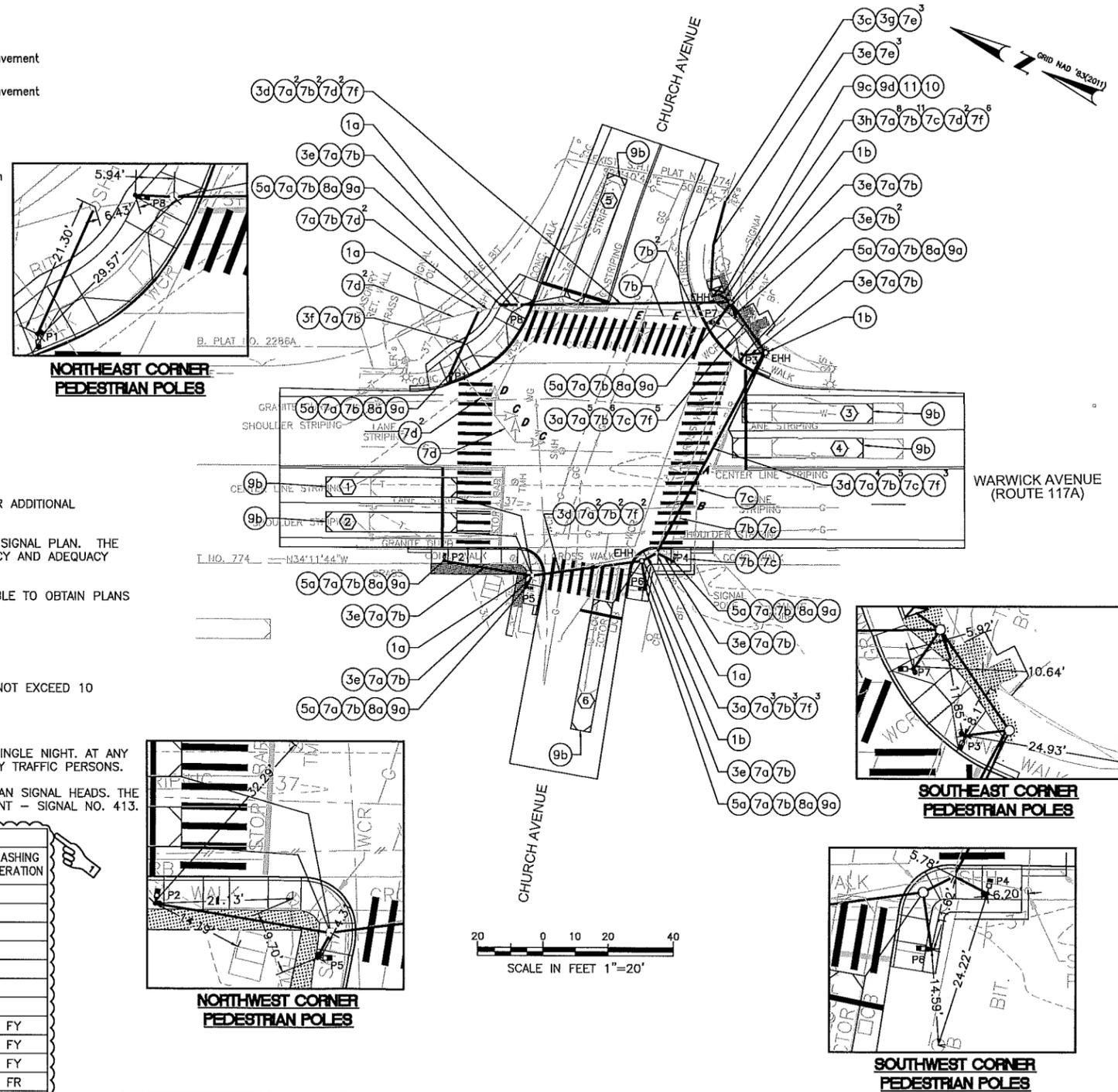
TRAFFIC SIGNAL CONSTRUCTION NOTES:

- SEE STANDARD NOTES - 2 AND JOB SPECIFIC PLAN SYMBOLS, LEGEND, & NOTES NO. 3 FOR ADDITIONAL REQUIREMENTS.
- THE EXISTING CONDUIT NETWORK SHOWN ON THIS PLAN IS BASED ON THE EXISTING TRAFFIC SIGNAL PLAN. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDUIT LOCATIONS AND SIZES FOR ACCURACY AND ADEQUACY PRIOR TO PERFORMING THE WORK.
- THE EXISTING TRAFFIC SIGNAL CONDUIT IS SHALLOW. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN PLANS SHOWING THE LOCATIONS OF THE TRAFFIC SIGNAL CONDUIT BEFORE DIGGING.
- ALL NEW FOUNDATIONS SHALL BE SET FLUSH WITH FINISH GRADE.
- ALL PEDESTRIAN PUSH BUTTONS SHALL BE PLACED ADJACENT TO LEVEL LANDING AREA.
- MAXIMUM REACH FROM THE LEVEL LANDING AREA TO THE PEDESTRIAN PUSH BUTTON SHALL NOT EXCEED 10 INCHES.
- THE CONTROLLER CABINET DOOR SHALL OPEN TOWARDS THE CONCRETE PAD.
- THE OPERATION TO SWITCH FROM THE EXISTING CONTROLLER SHALL TAKE PLACE DURING A SINGLE NIGHT. AT ANY POINT WHILE THE SIGNAL IS NOT IN OPERATION, THE INTERSECTION SHALL BE CONTROLLED BY TRAFFIC PERSONS.
- THE CONTRACTOR SHALL PLUG THE HOLES UPON REMOVAL OF THE POLE MOUNTED PEDESTRIAN SIGNAL HEADS. THE COST SHALL BE INCIDENTAL TO THE ITEM TO REMOVE AND SALVAGE TRAFFIC SIGNAL EQUIPMENT - SIGNAL NO. 413.

| SEQUENCE AND TIMING DIAGRAM | | | | | | | | | | | |
|-----------------------------|-----------|---------|----------|-----------|----------|--------------------|----|----|----|----|----|
| APPROACH | DIRECTION | HOUSING | φ1 | φ2 | φ3 | FLASHING OPERATION | | | | | |
| MINIMUM INTERVAL | | | 8 | 13 | 15 | | | | | | |
| VEHICLE EXTENSION | | | 2.6 | 3.0 | 2.7 | | | | | | |
| MAXIMUM 1 | | | 12 | 30 | 27 | | | | | | |
| MAXIMUM 2 | | | 12 | 30 | 27 | | | | | | |
| YELLOW CLEARANCE | | | 3.5 | 4.5 | 3.5 | | | | | | |
| RED CLEARANCE | | | | 1.0 | 1.5 | 1.0 | | | | | |
| PED. WALK/CHANGE | | | | 7/18 | 7/19 | | | | | | |
| WARWICK AVENUE | SB | A | G | Y | R | R | R | R | R | R | FY |
| WARWICK AVENUE | SB | B | G | G | G | Y | R | R | R | R | FY |
| WARWICK AVENUE | NB | C | R | R | R | G | Y | R | R | R | FY |
| CHURCH AVENUE | EB/WB | D | R | R | R | R | R | R | G | Y | FR |
| PEDESTRIAN X-ING | E-W | P1-P4 | DW | DW | DW | DW | DW | DW | W | DW | DW |
| | N-S | P5-P8 | DW | DW | DW | W | DW | DW | DW | DW | DW |
| DETECTOR | | | NON-LOCK | NON-LOCK | NON-LOCK | | | | | | |
| RECALL | | | OFF | ON - MIN. | OFF | | | | | | |

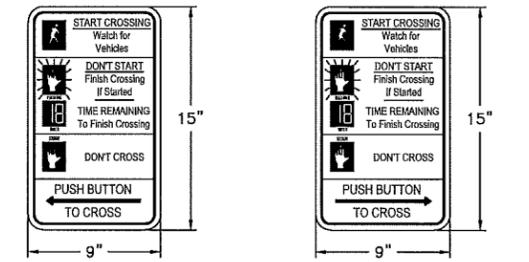
SEQUENCE AND TIMING NOTES:

- FLASHING OPERATION PER M.U.T.C.D SECTION 4D.28-4D.31.
- MAXIMUM 1 = NORMAL OPERATION
- MAXIMUM 2 = NOT USED
- PED W/FDW UPON PUSHBUTTON ACTUATION ONLY.



- NOTES:**
- ALL TRAFFIC SIGNAL HEADS ARE EXISTING.
 - PEDESTRIAN SIGNAL FACES SHALL BE L.E.D. FILLED-IN HAND/MAN SYMBOLS.

PEDESTRIAN DETECTOR SIGN DETAIL (R10-3e(L)) **PEDESTRIAN DETECTOR SIGN DETAIL (R10-3e(R))**



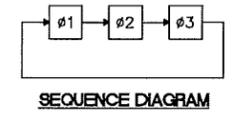
- NOTE:**
- ALL SIGNS INSTALLED AT PROPOSED PEDESTRIAN PUSH BUTTONS SHALL BE MUTCD CODE R10-3e (LEFT OR RIGHT) AND SHALL BE INSTALLED SUCH THAT THE CROSSING ASSIGNED TO EACH BUTTON IS CLEARLY INDICATED.

TRAFFIC SIGNAL NO. 413 REMOVE AND SALVAGE TRAFFIC SIGNAL EQUIPMENT

| | |
|-----|-------------------------------------|
| 1 | CONTROLLER, CABINET & APPURTENANCES |
| 2 | PEDESTRIAN PUSH BUTTON |
| 2 | PEDESTRIAN SIGNAL HEAD |
| 1 | SIGNAL HANDHOLE |
| ALL | WRING |

LOOP DETECTOR DATA

| DETECTOR NO. | NO. SECTION/ SIZE | RELAY NUMBER | SLOT | DELAY (SEC) | CALL PHASE | REMARKS |
|--------------|-------------------|--------------|------|-------------|------------|----------|
| 1 | 1-6'x40' | 1 | 2 | 3 | φ1 | PROPOSED |
| 2 | 1-6'x40' | 1 | 2 | 3 | φ2 | PROPOSED |
| 3 | 1-6'x40' | 1 | 2 | 3 | φ2 | PROPOSED |
| 4 | 1-6'x40' | 1 | 2 | 3 | φ2 | PROPOSED |
| 5 | 1-6'x40' | 2 | 4 | 5 | φ3 | PROPOSED |
| 6 | 1-6'x40' | 2 | 4 | 5 | φ3 | PROPOSED |



ADDENDUM NO. 1

BRYANT ASSOCIATES
 Engineers Surveyors Construction Managers
 640 George Washington Hwy, Bldg. C, Suite 100
 Lincoln, Rhode Island 02865

REVISIONS

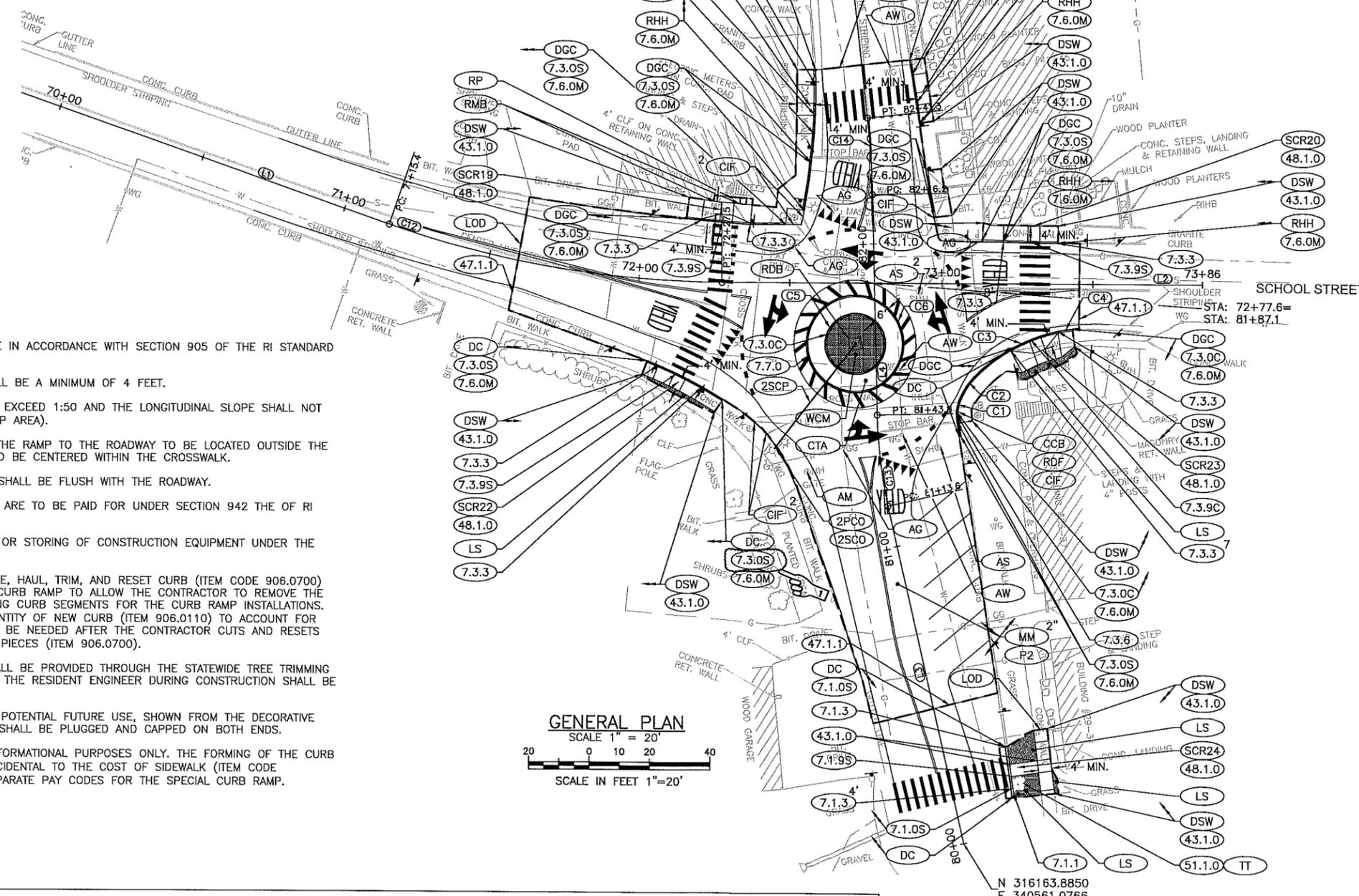
| NO. | DATE | BY |
|-----|---------|-----|
| 1 | 10/2016 | LGA |

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION
 PEDESTRIAN AND INTERSECTION
 SAFETY IMPROVEMENTS -
 STATE TRAFFIC COMMISSION
 VARIOUS LOCATIONS RHODE ISLAND

TRAFFIC SIGNAL PLAN NO.2
 WARWICK AVENUE AT CHURCH AVENUE
 WARWICK RHODE ISLAND

CHECKED BY _____ DATE _____ SCALE AS NOTED

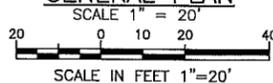
| LINE NO. | LENGTH | DIRECTION | START POINT | END POINT |
|----------|---------|---------------|--------------------------|--------------------------|
| L1 | 215.42' | S88° 38' 27"E | N 316302.70, E 340102.05 | N 316297.59, E 340317.41 |
| L2 | 158.42' | N72° 01' 02"E | N 316313.95, E 340427.74 | N 316362.86, E 340578.42 |
| L3 | 113.59' | N30° 57' 03"W | N 316163.89, E 340561.08 | N 316261.30, E 340502.66 |
| L4 | 72.38' | N19° 25' 06"W | N 316288.57, E 340489.83 | N 316356.83, E 340465.77 |
| L5 | 58.65' | N24° 13' 46"W | N 316380.21, E 340456.41 | N 316433.70, E 340432.34 |



GENERAL NOTES:

1. THE SIDEWALK WORK SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE RI STANDARD SPECIFICATIONS.
2. THE WIDTH OF THE RAMP SHALL BE A MINIMUM OF 4 FEET.
3. THE CROSS SLOPE SHALL NOT EXCEED 1:50 AND THE LONGITUDINAL SLOPE SHALL NOT EXCEED 1:12 (WITHIN THE RAMP AREA).
4. AT NO TIME IS ANY PART OF THE RAMP TO THE ROADWAY TO BE LOCATED OUTSIDE THE CROSSWALK. THE RAMP SHOULD BE CENTERED WITHIN THE CROSSWALK.
5. THE ENTRANCE OF THE RAMP SHALL BE FLUSH WITH THE ROADWAY.
6. DETECTABLE WARNING PANELS ARE TO BE PAID FOR UNDER SECTION 942 THE OF RI STANDARD SPECIFICATIONS.
7. THERE SHALL BE NO PARKING OR STORING OF CONSTRUCTION EQUIPMENT UNDER THE DRIPLINE OF ANY TREES.
8. THE LIMITS OF REMOVE, HANDLE, HAUL, TRIM, AND RESET CURB (ITEM CODE 906.0700) EXTEND PAST THE PROPOSED CURB RAMP TO ALLOW THE CONTRACTOR TO REMOVE THE ENTIRE LENGTH OF THE EXISTING CURB SEGMENTS FOR THE CURB RAMP INSTALLATIONS. THERE IS A CONTINGENCY QUANTITY OF NEW CURB (ITEM 906.0110) TO ACCOUNT FOR ADDITIONAL CURBING THAT MAY BE NEEDED AFTER THE CONTRACTOR CUTS AND RESETS THE AFFECTED EXISTING CURB PIECES (ITEM 906.0700).
9. ANY TREE TRIMMING WORK SHALL BE PROVIDED THROUGH THE STATEWIDE TREE TRIMMING CONTRACT. COORDINATION WITH THE RESIDENT ENGINEER DURING CONSTRUCTION SHALL BE REQUIRED.
10. THE PROPOSED CONDUIT, FOR POTENTIAL FUTURE USE, SHOWN FROM THE DECORATIVE BEACON TO THE UTILITY POLE SHALL BE PLUGGED AND CAPPED ON BOTH ENDS.
11. THE SCR CALLOUT IS FOR INFORMATIONAL PURPOSES ONLY. THE FORMING OF THE CURB RAMP WILL BE CONSIDERED INCIDENTAL TO THE COST OF SIDEWALK (ITEM CODE 905.0110). THERE ARE NO SEPARATE PAY CODES FOR THE SPECIAL CURB RAMP.

GENERAL PLAN



| CURVE NO. | RADIUS | LENGTH | TANGENT | DELTA | CHORD | POINT OF INTERSECTION | POINT OF CURVATURE | CENTER POINT | POINT OF TANGENCY |
|-----------|---------|---------|---------|-----------|---------|--------------------------|--------------------------|--------------------------|--------------------------|
| C12 | 336.25' | 112.06' | 56.55' | 19°05'40" | 111.54' | N 316296.49, E 340373.95 | N 316297.59, E 340317.41 | N 316633.77, E 340323.93 | N 316313.95, E 340427.74 |
| C13 | 150.00' | 30.19' | 15.15' | 11°31'57" | 30.14' | N 316274.29, E 340494.87 | N 316261.30, E 340502.66 | N 316338.44, E 340631.30 | N 316288.57, E 340489.83 |
| C14 | 300.00' | 25.19' | 12.60' | 4°48'39" | 25.18' | N 316368.72, E 340461.58 | N 316356.83, E 340465.77 | N 316257.09, E 340182.84 | N 316380.21, E 340456.41 |

| CURVE | RADIUS | LENGTH | TANGENT | DELTA | CHORD |
|-------|--------|---------|---------|-----------|--------|
| C1 | 14.00' | 5.00' | 2.53' | 20°27'46" | 4.97' |
| C2 | 24.00' | 8.00' | 4.04' | 19°05'55" | 7.96' |
| C3 | 55.00' | 32.00' | 16.47' | 33°20'09" | 31.55' |
| C4 | 55.00' | 5.00' | 2.50' | 5°12'31" | 5.00' |
| C5 | 10.00' | 62.83' | N/A | N/A | N/A |
| C6 | 16.00' | 100.53' | N/A | N/A | N/A |

BASE OF LEVELS
NAVD 1988
NAD '83 (2011)

BRYANT ASSOCIATES
Engineers Surveyors Construction Managers
640 George Washington Hwy, Bldg. C, Suite 100
Lincoln, Rhode Island 02865

| | | | | |
|-----------|---------|-----|--|--|
| REVISIONS | | | RHODE ISLAND | |
| NO. | DATE | BY | DEPARTMENT OF TRANSPORTATION | |
| 1 | 10/2016 | KAT | PEDESTRIAN AND INTERSECTION SAFETY IMPROVEMENTS - STATE TRAFFIC COMMISSION | |
| | | | VARIOUS LOCATIONS RHODE ISLAND | |
| | | | GENERAL AND LOCATION PLAN NO.20 | |
| | | | SCHOOL STREET AT MAIN STREET ALBION | |
| | | | LINCOLN RHODE ISLAND | |
| | | | CHECKED BY _____ DATE _____ SCALE AS NOTED | |

ADDENDUM NO. 1

Revised: 2/19/2002

Total or gross sum of bid for Rhode Island Contract Number: 2016-CH-055

Federal-Aid Project Number(s): STPG-0202(134)

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) calendar 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)

| DESCRIPTION | DATE |
|-----------------------------|--------------------|
| Substantial Completion Date | September 29, 2017 |
| Bid-Opening Date | October 19, 2016 |
| Advertise Date | September 28, 2016 |

THE BIDDER ACKNOWLEDGES RECEIPT OF THE FOLLOWING:

| ADDENDA | DATE POSTED | DOCUMENT(S) | PAGE |
|----------------|--------------------|---|-------------|
| NO.1 | October 12, 2016 | 1. Status Certification for: Debarment, Eligibility, Indictments, Convictions or Civil Judgements | 1 |
| | | 2. Anti-Collusion Certificate | 2 |
| | | 4. DBE Affirmative Action Certification | 3 - 9 |
| | | 3. Disclosure of Lobbying Activities | |