
REQUEST FOR PROPOSALS

Item Description: BROAD STREET IMPROVEMENTS (#32265)

Date to be opened: August 16, 2021

Issuing Department: DEPARTMENT OF PLANNING AND DEVELOPMENT

QUESTIONS

- Please direct questions relative to the bidding process, how to fill out forms, and how to submit a bid (Pages 1-8) to Purchasing Agent Patti Jordan.
 - Phone: (401) 680-5264; Email: pjordan@providenceri.gov
 - Please use the subject line “**RFP Question**”
- Please direct questions relative to the Minority and Women’s Business Enterprise Program and the corresponding forms to the MBE/WBE Outreach Director for the City of Providence, Grace Diaz
 - Phone: (401) 680-5766; Email: gdiaz@providenceri.gov
 - Please use subject line “**MBE WBE Forms**”
- Please direct questions relative to the specifications or contract documents in writing to Martina Haggerty, Director of Special Projects, Department of Planning & Development **and** cc: Francisco Lovera, P.E., McMahon Associates
 - Email: mhaggerty@providenceri.gov, cc: flovera@mcmahonassociates.com
 - Phone: (401) 680-8528 (Martina Haggerty), (401) 648-7200 x3018 (Francisco Lovera)
 - Please use subject line “Broad Street Improvements RFP”

PRE BID MEETING

A **Mandatory Virtual Pre-Bid Conference** has been scheduled for **MONDAY, AUGUST 2, 2021 at 1:30 PM.** The Pre-Bid Conference will be held virtually at the following link:
<https://mcmahon.zoom.us/j/99394678917?pwd=bmdlY0p4VWFwcE1mMkRUeTY3VENkdz09>

INSTRUCTIONS FOR SUBMISSION

- Bids may be submitted up to **2:15 P.M.** on the above meeting date at the **Department of the City Clerk, Room 311, City Hall, 25 Dorrance Street, Providence.** At 2:15 P.M. all bids will be publicly opened and read at the Board of Contract Meeting in the City Council Chambers, on the 3rd floor of City Hall.
- Bidders must submit **one original and one copy** of their bid in sealed envelopes or packages labeled with the captioned **Item Description** and the **City Department to which the RFP and bid are related along with a USB drive containing a single PDF of all documents and forms associated with their bid.**
- Communications to the Board of Contract and Supply that are not competitive sealed bids (i.e. product information/samples) should have “**NOT A BID**” written on the envelope or wrapper.
- Only use form versions and templates included in this RFP. If you have an old version of a form do not recycle it for use in this bid.
- The bid envelope and information relative to the bid must be addressed to:

○ **Board of Contract and Supply Department of the City Clerk – City Hall, Room 311
25 Dorrance Street Providence, RI 02903**

- ****PLEASE NOTE:** This bid may include details regarding information that you will need to provide (such as proof of licenses) to the issuing department before the formalization of an award.
- *This information is NOT requested to be provided in your initial bid by design.*
- All bids submitted to the City Clerk become public record. Failure to follow instructions could result in information considered private being posted to the city's Open Meetings Portal and made available as a public record. The City has made a conscious effort to avoid the posting of sensitive information on the City's Open Meetings Portal, by requesting that such sensitive information be submitted to the issuing department only at their request.

BID PACKAGE CHECKLIST

Digital forms are available in the City of Providence Purchasing Department Office or online at <http://www.providenceri.gov/purchasing/how-to-submit-a-bid/>

The bid package **MUST** include the following, in this order:

- **Bid Form 1:** Bidder's Blank as the cover page/ 1st page
- **Bid Form 2:** Certification of Bidder as 2nd page
- **Bid Form 3:** Certificate Regarding Public Records
- **Forms from the Minority and Women Business Enterprise Program:** Based on Bidder Category. See forms and instructions enclosed (pages 7-8) or on: <https://www.providenceri.gov/purchasing/minority-women-owned-business-mbewbe-procurement-program/>
**Please note: MBE/WBE forms must be completed for EVERY bid submitted and must be inclusive of ALL required signatures. Forms without all required signatures may be considered incomplete.*

• **City Required Forms:**

1. Form of Bid
2. Purchasing Department Documents and MBE/WBE Participation Forms
3. Bid Bond
4. Certificate of Corporate Principal
5. Non-Collusion Affidavit of Prime Bidder
6. Non-Collusion Affidavit of Subcontractor
7. Certification of Non-Segregated Facilities
8. Bidder's Certification for Equal Employment Opportunity
9. Special Requirement for All Out-of-State Contractors and Firms
10. Certification with Regard to Performance of Previous Contracts and Subcontracts
11. Affidavit of Non-Discrimination
12. Certification of Non-Discrimination in Equal Employment Opportunity
13. Statement of Bidders Qualifications
14. Proposed Subcontractors
15. Schedule of Unit Prices (Appendix K)
16. Schedule of Rates for all Labor and Equipment

• **RIDOT Required Forms:** (see Appendix F)

Forms 1-5 are to be submitted with the bid, forms 6-12 shall be submitted during post qualifications.

1. Certification Regarding Debarment, Suspension and Other Responsibility Matters
Primary Covered Transactions
2. Anti-Collusion Certificate for Contract and Force Account
3. Conflicts Disclosure Statement
4. Disclosure of Lobbying Activities
5. Requirement for Affirmative Action to Ensure Equal Opportunity
6. USDOT Standard Title VI/Nondiscrimination Assurances for Contractors
7. MBE Utilization Plan
8. Affidavit of Non-Discrimination
9. Certification of Non-Discrimination in Equal Employment Opportunity
10. EEO Contract Compliance Report
11. EEO Certificate of Compliance
12. On-the-Job Training Acknowledgement & Statement of Compliance

- **Bidder's Proposal/Package:** Formal response to the requirements as outlined in the Bid Package Specification Section of this RFP, including pricing information and details related to the good(s) or service(s) being provided. Please be mindful of formatting responses as requested to ensure clarity.

- **Financial Assurance,** *if requested (as indicated on page 6 of this document under "Bid Terms")*

All of the above listed documents are REQUIRED. (With the exception of financial assurances, which are only required if specified on page 6 and the RIDOT forms that will be required during post qualifications.)

******Failure to meet specified deadlines, follow specific submission instructions, or enclose all required documents with all applicable signatures will result in disqualification, or in an inability to appropriately evaluate bids.***

NOTICE TO VENDORS

1. The Board of Contract and Supply will make the award to the lowest qualified and responsible bidder.
2. In determining the lowest responsible bidder, cash discounts based on preferable payment terms will not be considered.
3. Where prices are the same, the Board of Contract and Supply reserves the right to award to one bidder, or to split the award.
4. No proposal will be accepted if the bid is made in collusion with any other bidder.
5. Bids may be submitted on an “equal in quality” basis. The City reserves the right to decide equality. Bidders must indicate brand or the make being offered and submit detailed specifications if other than brand requested.
6. A bidder who is an out-of-state corporation shall qualify or register to transact business in this State, in accordance with the Rhode Island Business Corporation Act, RIGL Sec. 7-1.2-1401, et seq.
7. The Board of Contract and Supply reserves the right to reject any and all bids.
8. Competing bids may be viewed in person at the Department of the City Clerk, City Hall, Providence, immediately upon the conclusion of the formal Board of Contract and Supply meeting during which the bids were unsealed/opened. Bids may also be accessed electronically on the internet via the City’s [Open Meetings Portal](#).
9. As the City of Providence is exempt from the payment of Federal Excise Taxes and Rhode Island Sales Tax, prices quoted are not to include these taxes.
10. In case of error in the extension of prices quoted, the unit price will govern.
11. The contractor will **NOT** be permitted to: a) assign or underlet the contract, or b) assign either legally or equitably any monies or any claim thereto without the previous written consent of the City Purchasing Director.
12. Delivery dates must be shown in the bid. If no delivery date is specified, it will be assumed that an immediate delivery from stock will be made.
13. A certificate of insurance will normally be required of a successful vendor.
14. For many contracts involving construction, alteration and/or repair work, State law provisions concerning payment of prevailing wage rates apply ([RIGL Sec. 37-13-1 et seq.](#))
15. No goods should be delivered or work started without a Purchase Order.
16. **Submit 5 copies of the bid to the City Clerk, unless the specification section of this document indicates otherwise.**
17. Bidder must certify that it does not unlawfully discriminate on the basis of race, color, national origin, gender, gender identity or expression, sexual orientation and/or religion in its business and hiring practices and that all of its employees are lawfully employed under all applicable federal, state and local laws, rules and regulations. (See Bid Form 2.)

BID TERMS

1. Financial assurances may be required in order to be a successful bidder for Commodity or Construction and Service contracts. If either of the first two checkboxes below is checked, the specified assurance **must accompany** a bid, or the bid will not be considered by the Board of Contract and Supply. The third checkbox indicates the lowest responsible bidder will be contacted and required to post a bond to be awarded the contract.

a) A certified check for \$ _____ must be deposited with the City Clerk as a guarantee that the Contract will be signed and delivered by the bidder.

b) A bid bond in the amount of 5 per centum (%) of the proposed total price, must be deposited with the City Clerk as a guarantee that the contract will be signed and delivered by the bidder; and the amount of such bid bond shall be retained for the use of the City as liquidated damages in case of default.

c) A performance and payment bond with a satisfactory surety company will be posted by the bidder in a sum equal to one hundred per centum (100%) of the awarded contract.

d) No financial assurance is necessary for this item.

2. Awards will be made within **sixty (60) days of bid opening**. All bid prices will be considered firm, unless qualified otherwise. Requests for price increases will not be honored.

3. Failure to deliver within the time quoted or failure to meet specifications may result in default in accordance with the general specifications. It is agreed that deliveries and/or completion are subject to strikes, lockouts, accidents and Acts of God.

The following entry applies only for COMMODITY BID TERMS:

4. Payment for partial delivery will not be allowed except when provided for in blanket or term contracts.

The following entries apply only for CONSTRUCTION AND SERVICE BID TERMS:

5. Only one shipping charge will be applied in the event of partial deliveries for blanket or term contracts.

6. Prior to commencing performance under the contract, the successful bidder shall attest to compliance with the provisions of the Rhode Island Worker's Compensation Act, RIGL 28-29-1, et seq. If exempt from compliance, the successful bidder shall submit a sworn Affidavit by a corporate officer to that effect, which shall accompany the signed contract.

7. Prior to commencing performance under the contract, the successful bidder shall, submit a certificate of insurance, in a form and in an amount satisfactory to the City.

WBE/MBE Requirements

In accordance with RI Gen. Law § 37-14.1-1, it is the policy of the State of Rhode Island to support the fullest possible participation of firms owned and controlled by minorities (MBEs) and women (WBEs). Pursuant to §§ 37-14.1-2 and 37-14.1-6, MBEs and WBEs shall be included in all state purchasing, including, but not limited to, the procurement of goods, services, construction projects, or contracts funded in whole or in part with state funds, or funds which, in accordance with a federal grant or otherwise, the state expends or administers.

In addition, the City of Providence actively seeks Minority and Women business enterprises to participate in bids to meet the City's procurement needs. Pursuant to the City of Providence Code of Ordinances, Chapter 21, Article II, Sec. 21-52 (Minority and Women's Business Enterprise) and Rhode Island General Laws (as amended), Chapter 31-14, et seq. (Minority Business Enterprise), Minority Business Enterprise (MBE) and Women's Business Enterprise (WBE) participation goals apply to contracts.

Broad Street Improvements

The goal for Minority Business Enterprise (MBE) and Women's Business Enterprise (WBE) participation must be a minimum of **10%** of the total bid value.

Broad Street Improvements – Resurfacing Add-Alternate

The goal for Minority Business Enterprise (MBE) participation is **10%** of the total bid value. The goal for Women's Business Enterprise (WBE) participation is **10%** of the total bid value. The goal for combined MBE/WBE participation is **20%** of the total bid value.

Only businesses certified with the State of Rhode Island as minority and/or women business enterprises are counted towards the State's and City's goals. The current directory of firms certified as MBEs or WBEs may be accessed at <http://odeo.ri.gov/offices/mbeco/mbe-wbe.php> Eligible minority or women-owned businesses are encouraged to seek certification from the State of Rhode Island Minority Business Enterprise Compliance Office at: <http://odeo.ri.gov/offices/mbeco/>

Note: MBE certification with the State of Rhode Island on the basis of Portuguese heritage is not currently recognized by the City of Providence's MBE program.

Bid Requirements:

All Bidders: All bidders must complete and submit the State of Rhode Island MBE Utilization Plan Form and City of Providence **MBE/WBE Participation Affidavit** indicating whether or not they are a state-certified MBE/WBE and acknowledging the City's participation goals. Submission of this form is required with **every bid**. Your bid will not be accepted without an affidavit.

Bidders who will be subcontracting: Bidders who will be subcontracting must submit the **Subcontractor Disclosure Form** as part of their bid submission. All subcontractors, regardless of MBE/WBE status, must be listed on this form. Business NAICS codes can be found at <https://www.naics.com/search/>. Awarded bidders are required to submit **Subcontractor Utilization and Payment Reports** with each invoice.

Waiver Requests:

If the percentage of the total amount of the bid being awarded to MBE or WBE vendors is less than 20% (Box F on the Subcontractor Disclosure Form) and the prime contractor is not a Rhode Island State-

certified MBE or WBE, the Bidder must complete the *MBE/WBE Waiver Request Form* for review. Waivers will be considered on a case by case basis.

No waiver will be granted unless the waiver request includes documentation that demonstrates that the Bidder has made good faith efforts to achieve the City's stated participation goals. Waivers must be reviewed and signed by the City of Providence's MBE/WBE Outreach Director, Grace Diaz, or her designee. Department Directors cannot recommend a bidder for award if this form is applicable and absent. If the bid does not meet the participation goals of the City of Providence and a waiver is not filed with the signature of the MBE/WBE Outreach Director or her designee, the bid will not be accepted.

The waiver does not apply to the Broad Street Improvements 10% MBE/WBE State requirement. This 10% requirement **must** be met.

Verifying MBE/WBE Certification

It is the responsibility of the bidder to confirm that every MBE/WBE named in a proposal and included in a contract is certified by the Rhode Island Minority Business Enterprise Compliance office. The current MBE/WBE directory is available at the State of RI MBE Office, One Capitol Hill, 2nd Floor, Providence, RI, or online at <http://odeo.ri.gov/offices/mbeco/mbe-wbe.php>. You can also call (401) 574-8670 to verify certification, expiration dates, and services that the MBE/WBE is certified to provide. Note: MBE certification with the State of Rhode Island on the basis of Portuguese heritage is not currently recognized by the City of Providence's MBE program.

City of Providence WBE/MBE Form Instructions:

Access all bid forms from <http://www.providenceri.gov/oeo/> or <http://www.providenceri.gov/purchasing/minority-women-owned-business-mbewbe-procurement-program/>. **Download** the forms as blank PDFs. Once saved on your computer, fill them out using the Adobe program. The fillable PDFs must be completed in Adobe in order to be saved properly. Google Chrome and similar platforms do not allow for the forms to be saved as filled PDFs. Therefore, please download the blank forms to your computer, then fill them out and save.

Assistance with City of Providence WBE/MBE Form Requirements

Examples of completed forms can be found on the City of Providence website at <http://www.providenceri.gov/oeo/> or <http://www.providenceri.gov/purchasing/minority-women-owned-business-mbewbe-procurement-program/>.

Contract Requirements:

Prime contractors engaging subcontractors must submit the *Subcontractor Utilization and Payment Report* to the City Department's Fiscal Agent with every invoice and with request for final payment. This form is not submitted as a part of the initial bid package.

For contracts with duration of less than 3 months, this form must be submitted along with the contractor's request for final payment. The form must include all subcontractors utilized on the contract, both MBE/WBE and non- MBE/WBE, the total amount paid to each subcontractor for the given period and to date. During the term of the contract, any unjustified failure to comply with the MBE/WBE participation requirements is a material breach of contract.

Questions?

For more information or for assistance with City of Providence MBE/WBE Forms, contact the City of Providence MBE/WBE Outreach Director, Grace Diaz, at mbe-wbe@providenceri.com or (401) 680-5766.

BID PACKAGE SPECIFICATIONS

Introduction

The City of Providence seeks consultant services from a qualified contractor, to provide construction services associated with the Broad Street Improvement Project as outlined in the attached Contract Documents.

CITY OF

CONTRACT DOCUMENTS
Broad Street Improvements

PROVIDENCE, RHODE ISLAND

HONORABLE Jorge O. Elorza
Mayor, City of Providence



PREPARED BY:

DEPARTMENT of PLANNING AND DEVELOPMENT
444 Westminster Street
Providence, Rhode Island 02903
(401) 680-8400

Bonnie Nickerson, Director

R.I. CONTRACT NO. 2018-EC-001

F.A. PROJECT NO. 405-421-868

JULY 2021

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INVITATION FOR BIDS BROAD STREET IMPROVEMENTS

P R O V I D E N C E , R H O D E I S L A N D

R.I. Federal Aid Project No. 405-421-868 and R.I. Contract No. 2018-EC-001 are for Broad Street Improvements. The work to be performed under this Contract includes, but is not limited to, all labor, material and equipment necessary to construct sidewalk and roadway improvements on Broad Street between Elmwood Avenue and Hawthorne Avenue in the City of Providence, RI. Included in the work is the installation of new concrete sidewalk, curb ramps, and detectable warning systems; installation of floating bus stops; removal and disposal of existing signs and installation of new signs; installation of pavement markings; traffic signal modifications; and all other incidentals necessary to execute the work complete in place and accepted within the limits of this contract to the satisfaction of the Engineer.

City of Providence Capital Improvement Program funds are for the resurfacing of Broad Street, within the limits noted above, as an add-alternate to the Broad Street Improvement project. The work associated with the add-alternate infrastructure improvements includes, but is not limited to, the resurfacing of Broad Street and the installation of new curb ramps and all other incidentals necessary to execute the work complete in place and accepted within the limits of the add-alternate to the satisfaction of the Engineer.

The Owner is defined as the Providence Public Buildings Authority (PPBA), the City of Providence (City), and the City of Providence Department of Planning and Development (DPD).

All the above shall be performed in strict accordance with the Contract Documents and is to be substantially complete by WEDNESDAY, JUNE 1, 2022 and completed in full by THURSDAY, JUNE 30, 2022.

Copies of the Bidding/Contract Documents will be available for inspection at the office of the Purchasing Agent, Providence City Hall, 3rd Floor, Providence, Rhode Island 02903, on **MONDAY, JULY 19, 2021.** Bid documents will also be available for download from <https://www.providenceri.gov/purchasing/openrfpsummary/> and <https://www.bidnetdirect.com/rhode-island/providenceri> There will be no charge or fee for obtaining each set of bidding documents.

All questions or comments concerning the bidding of this project must be submitted in writing as prescribed in Section 2 of the Instructions to Bidders by **TUESDAY, AUGUST 10, 2021 at 12:00.** Bidders are responsible to monitor the website for addendum. An addendum acknowledgment page is included in the Required Bidding Documents.

A satisfactory bid bond executed by the Bidder and an acceptable surety in an amount equal to five (5%) percent of the total amount of the bid shall accompany each proposal. The proposal guaranty will be furnished by surety companies licensed to do business in the State of Rhode Island. The City of Providence 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 City of Providence.

A Performance Bond in an amount of One Hundred (100%) percent of the contract price and a Labor and Material Payment Bond in the amount of One Hundred (100%) percent of the Contract Price with a satisfactory surety company will be required of the successful bidder. All surety companies must be listed with the Department of the Treasury, Fiscal Services, Circular 570 (Latest Revision published by the Federal Register). All bonds shall be in accordance with RIGL 37-13-14.

The Bidders' attention is called to the fact that minimum salaries and wages, as set forth in the Bidding/Contract Documents, must be paid on this project. Paid wages shall be at rates not less than those prevailing on the same type of work on similar construction in the immediate locality as determined by the United States Secretary of Labor, in accordance with the Act of August 30, 1935, known as the Davis-Bacon Act, under Decision Nos. 1 through 6 as applicable. Prevailing wage rates and Davis-Bacon Wage Determination Reference Materials are available online at <https://beta.sam.gov/>.

The Bidders' attention is called to the fact that the Contractor must ensure that employees and applicants for employment are not discriminated against because of their race, color, place of national origin, religion, sexual preference, or gender.

The Owner will not consider bids from prime bidders who do not prove at least 5 years construction experience (within the last 7 years) on Roadway Improvement Projects. Roadway Improvement Projects shall be defined as existing, active roadways within an existing city, state or federally owned right-of-way. Instructions on documenting this experience are included in the "Statement of Bidders Qualifications" bid form in the Contract Documents.

Bids may be held by the Owner for a period not to exceed ninety (90) days from the date of opening of bids, for the purpose of reviewing the bids and investigating the qualifications of bidders, all prior to award of the Contract. The Department of Public Works reserves the right to reject any or all bids either in part or in full. All bidders shall be available for a Pre-Bid Award Descope Meeting as may be required by the Owner. The Owner reserves the right to descope one or more bidders. Additionally, the meeting minutes of the Descope Meeting shall be enumerated as part of the signed contract agreement. The intent is NOT to renegotiate cost in any manner but to obtain clarifications and details of representations made by the Bidder to assure an understanding of the bid prior to final award.

After a thorough review, and descope as required, of bids, the Owner anticipate submitting their recommendation for award of contract to the lowest responsible bidder to the Board of Contract and Supply for its regular meeting of **MONDAY, SEPTEMBER 13, 2021**. The Board of Contract and Supply may take up to sixty (60) days to formally award.

If there are any questions, please contact the appropriate person listed below:

- Please direct questions relative to the bidding process, how to fill out forms, and how to submit a bid to Purchasing Agent Patti Jordan.
 - Phone: (401) 680-5264
 - Email: pjordan@providenceri.gov (Please use the subject line "RFP Question")
- Please direct questions relative to the Minority and Women's Business Enterprise Program and the corresponding forms (Pages 37-39) to the MBE/WBE Outreach Director for the City of Providence, Grace Diaz
 - Phone: (401) 680-5766
 - Email: gdiaz@providenceri.gov (Please use subject line "MBE WBE Forms")
- Please direct questions relative to the contract documents in writing to Martina Haggerty, Director of Special Projects, Department of Planning & Development and cc: Francisco Lovera, P.E., McMahan Associates
 - Email: mhaggerty@providenceri.gov, cc: flovera@mcmahanassociates.com
 - Phone: (401) 680-8528 (Martina Haggerty), (401) 648-7200 x3018 (Francisco Lovera)

Bonnie Nickerson
Director

Jorge O. Elorza
Mayor

INSTRUCTION TO BIDDERS

BROAD STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

1. USE OF SEPARATE BID FORMS

The Contract Documents include a complete set of Bidding Documents such as, but not limited to Front End Documents, Specifications, Drawings, Addendum and Contract forms which are compiled for the convenience of Bidders and are not to be detached from the Contract Documents, filled out, or executed. Separate copies of the Bid Forms are furnished for this purpose and can be found in this document.

2. INTERPRETATIONS OR ADDENDA

No oral interpretation will be made to any Bidder as to the meaning of the Contract Documents or any part thereof. Every request for such an interpretation shall be made in writing to the Owner. Any inquiry received seven or more days prior to the date fixed for opening of Bids will be given consideration. Every interpretation made to a bidder will be in the form of an Addendum to the Contract Documents when issued and will be on file with the City of Providence Purchasing Department. In addition, all Addenda will be mailed to each person holding Contract Documents, but it shall be the Bidder's responsibility to make inquiry as to the Addenda issued. All such addenda shall become part of the Contract and all Bidders shall be bound by such Addenda, whether or not received by the Bidder.

3. INSPECTION OF SITE

- A. Each Bidder should visit the site in person and not rely on digital street and overhead views provided by mediums such as, but not limited to, Google and Bing to review areas of the proposed work and fully acquaint himself with the existing conditions there, relating to construction and labor, and should fully inform himself as to the facilities involved, the difficulties and restrictions attending the performance of the Contract. The Bidder should thoroughly examine and familiarize himself with the Drawings, Technical Specifications and all other Contract Documents and supporting information. The Contractor, by the execution of the Contract, shall in no way be relieved of any obligation under it due to his failure to receive or examine any form or legal instrument or to visit the site and acquaint himself with the conditions there existing, and the Owner will be justified in rejecting any claim based on facts regarding which, he should have been on notice as a result thereof.
- B. At the time of the opening of Bids, each Bidder will be presumed to have inspected the site and to have read and to be thoroughly familiar with the Contract Documents (including all addenda). The failure or omission of any Bidder to examine any form, instrument or document or to inspect the site, shall in no way relieve any Bidder from any obligation in respect to his Bid.

4. ALTERNATE BIDS

Add alternate bids are included in this contract. All requested alternates shall be bid. Bidder shall make no additional stipulations on the bid form nor qualify his bid in any other manner.

5. ALLOWANCES

A. Allowances shall be included as part of the Base Bid and then further delineated in the Project Schedule of Values. Allowances are subject to all general conditions and standards of the Contract.

1. Roadway Infrastructure Repair (\$90,000.00): This allowance is for roadway infrastructure repairs that are identified during construction. Infrastructure repairs include sinkholes, voids in roadway subbase/base, repair and/or replacement of drainage inlets, drainage pipes, frame and covers/grates, sewer services, sewer mains, sewer manholes, traffic signal systems, etc. All work under this allowance shall be reviewed and approved by the owner prior to work being performed.

Work under this allowance will be reimbursed on a time and materials basis including overhead and profit. Contractor to provide Owner a detailed cost estimate of work for review and approval by Owner.

2. Miscellaneous Curb and Sidewalk Repairs (\$40,000): This allowance is for sidewalk related repairs that are identified during construction that were not include in the Contract Documents. Work includes tree root grinding and/or removal, building foundation repairs/improvements, and other issues resulting from proposed sidewalk and curb ramp work along the curb line and back of sidewalk.

Work under this allowance will be reimbursed on a time and materials basis including overhead and profit. Contractor to provide Owner a detailed cost estimate of work for review and approval by Owner.

3. Environmental Hazards (\$20,000): This allowance is for unanticipated hazardous materials remediation that may be required if materials are encountered as part of the construction of the project. Work under this allowance may include the cost of environmental consultants, engineering, permit and application fees, and remediation work.

Work under this allowance will be reimbursed on a time and materials basis including overhead and profit. Contractor to provide Owner a detailed cost estimate of work for review and approval by Owner.

4. Electrical, Communications, Gas and Water Works (\$20,000): This allowance addresses possible scope and field changes resulting from conflicts with underground utilities (i.e. electric, communications, natural gas, and domestic water) that may be identified during the course of the work.

Work under this allowance will be reimbursed on a time and materials basis including overhead and profit. Contractor to provide Owner a detailed cost estimate of work for review and approval by Owner.

5. Quantity Adjustments (\$30,000): This allowance addresses scope creep where the anticipated quantity values in the base bid may be exceeded.

Work under this allowance will be reimbursed based on the unit values that are established as part of the unit costs for the project submitted in the base bid.

-
- B. While allowances are part of the Overall Bid Value submitted, that Contractor is advised that there are No Guarantees that they will be used or otherwise drawn down on and should have no expectation of the allowance work being awarded. Allowances will be accounted for the Schedule of Values as separate Lines Items with the value debited as separate values as they are drawn against.

6. BIDS

- A. All Bids must be submitted on forms supplied by the Owner and shall include all of the requirements of the Contract Documents, including, but not limited to, the Drawings and other incidental and appurtenant exhibits including these INSTRUCTIONS TO BIDDERS. All Bids shall be complete in every respect and no interlineations, excisions or special conditions shall be made to be included in the Bid Form by the Bidder. All blank spaces for Bid Prices shall be filled in in ink or typewritten; in both words and figures.
- B. Required documents: Bid, Bid Documents including the Bid, the Bid Guarantee, the Non-Collusion Affidavit and the Statement of Bidder's Qualifications (if requested), shall be submitted to the City's Board of Contract and Supply as indicated on Page 1 of this document. **One original and one paper copy of the bid documents and required forms shall be submitted along with one USB drive with a single PDF containing all bid documents and required forms. No CDs or emailed PDFs will be accepted. Failure to submit a USB stick with a single PDF of the required documents and forms may result in disqualification.**
- C. The Owner may consider as irregular any Bid on which there is an alteration of or departure from the Bid Form hereto attached and, at its option may reject the same.
- D. If the Contract is awarded it will be awarded by the Owner to a responsible Bidder on the basis of the lowest Bid and the selected Alternative Bid items, if any. However, the City reserves the right to select an alternate bidder, if in the best interest of the City. The Contract will require the completion of the work according to the Contract Documents.
- E. Each Bidder shall include in his Bid the following information:

PRINCIPALS	FIRM
Names	Name
Home Addresses,	Address
including City, State and Zip Code.	City, State and Zip Code

7. BID GUARANTEE

- A. The Bid must be accompanied by a Bid Guarantee which shall not be less than **five percent (5%)** of the amount of Bid. The guarantee may be a bid bond in the form attached. The Bid Bond shall be secured by a guarantee or a surety company listed in the latest issue of the U.S. Treasury Circular 570. The amount of such Bid Bond shall be within the maximum amount specified for such company in said Circular 570. No Bid will be considered unless it is accompanied by the required guarantee. Certified checks, cashier's checks, or cash deposits will not be accepted. The Bid Guarantee shall insure the execution of the Agreement and the furnishing of the surety bond or bonds by the successful Bidder; all as required by the Contract Documents.
- B. Revised Bids submitted before the opening of Bids, whether forwarded by mail or telegram, if representing an increase in excess of two percent (2%) of the original

Bid, must have the Bid Guarantee adjusted accordingly, otherwise the Bid will not be considered.

- C. Bid Bonds of unsuccessful Bidders will be returned as soon as practical after the opening of Bids.

8. COLLUSIVE AGREEMENTS

- A. Each Bidder submitting a Bid to the Owner for any portion of the work contemplated by the documents on which bidding is based, shall execute and attach thereto, an affidavit substantially in the form herein provided, to the effect that he has not entered into a collusive agreement with any other person, firm, or corporation in regard to any Bid submitted.
- B. Before executing any subcontract, the successful Bidder shall submit the name of any proposed Subcontractor for prior approval and an affidavit substantially in the form provided in this document.

9. STATEMENT OF BIDDER'S QUALIFICATIONS

- A. Each Bidder shall completely fill out a STATEMENT OF BIDDER'S QUALIFICATIONS noting his/her experience record in constructing the type of improvements embraced in the work, his/her organization and equipment available for the work contemplated on the form furnished for that purpose, and when specifically requested by the Owner, a detailed financial statement. The Owner shall have the right to take such steps as it deems necessary to determine the ability of the Bidder to perform his obligations under the Contract and the Bidder shall furnish the Owner all such information and data for this purpose as it may request. The right is reserved to reject any Bid where an investigation of the available evidence or information does not satisfy the Owner that the Bidder is qualified to carry out properly the terms of the contract.
- B. The Owner will not consider bids from prime bidders who do not prove at least 5 years construction experience (within the last 7 years) on Roadway Improvement Projects. Roadway Improvement Projects shall be defined as existing, active roadways within an existing city, state or federally owned right-of-way. Instructions on documenting this experience are included in the STATEMENT OF BIDDER'S QUALIFICATIONS bid form.
- C. The Low Bidder (Responsive and Responsible) must:
 - 1. Provide the names and qualifications of the Superintendent and Supervisory personnel assigned major features of work;
 - 2. Provide a description of all self-performed work;
 - 3. Provide the names of proposed subcontractors and extent of work to be performed;
 - 4. Provide the name of the firm's Equal Employment Opportunity with reference to the City or State;
 - 5. Provide Certification of Non-Discrimination in Equal Employment Opportunity with reference to the State;
 - 6. Provide original letters from Bonding & Insurance Companies District Offices indicating willingness to furnish bonds/certificates;

-
7. The Contractor shall demonstrate and provide a work plan to comply with the State Public Works Contract apprenticeship program as prescribed by RIGL Title 37 Section 37-13-3.1. These documents are considered part of the Contract as if attached and written in full.
 8. Provide financial references and set of audited financial statements (prepared by a CPA) for most recent 3-year period to City for its' review and approval;
 9. Provide list of 10 most recent contracts completed;
 10. Provide list of all uncompleted contracts;
 11. List whether in the past 3 years the firm has had any bids rejected for lack of qualifications, Responsibility, submission of informal/non-responsive bids, been denied or revoked of pre-qualification; or violated any State labor law or prevailing wage citation.

The following items shall be provided by the low bidder during post qualification after the bid opening has occurred:

1. Provide a list of equipment owned/leased in their possession;
2. Provide insurance documentation naming the Owner as additionally insured on a primary and non-contributory basis.

10. UNIT PRICES, SUPPLEMENTAL UNIT PRICES AND ALTERNATES

The Unit Price for each of the items in the proposal of each Bidder shall include as part of the Unit Cost the pro rata share of overhead and profit so that the sum of the products obtained by multiplying the quantity shown for each item by the Unit Price Bid represents the Total Bid. Bid pricing sheets are included in Appendix K.

The special attention of all Bidders is called to this provision for, should conditions make it necessary to revise the quantities, no limit will be fixed for such increased or decreased quantities nor extra compensation allowed, provided the net monetary value of all such additive and subtractive changes in quantities of such items of work (i.e., difference in cost) shall not increase or decrease the original contract price by more than **twenty-five percent (25%)**, except for work not covered in the Drawings and Technical Specifications as provided for in the RHODE ISLAND DEPARTMENT OF TRANSPORTATION Standard Specifications for Road and Bridge Construction, 2004 Edition, Amended March 2018 GENERAL CONDITIONS PART 1, Section 104.0.7 a2.

Add alternate bid items are included in this project. Each bidder shall include a unit price for these items. The Owner will determine if these work items will be added to the project. Bid pricing sheets for the add alternate items are included in Appendix K.

The Bidder shall provide Bid Unit Costs that reflect the Fair Market Value of the work to be performed to prevent an unbalanced bid. As such the practice of submitting Penny, Dollar or Token Bid values is discouraged and could result in rejection of the bid if found to be unbalanced.

11. CORRECTIONS

Erasures or other changes in the Bids must be explained or noted over the signature of the Bidder.

12. TIME FOR RECEIVING BIDS

- A. Bids received prior to the advertised hour of opening will be securely kept and sealed. The officer whose duty it is to open them will decide when the specified time has arrived and no Bid received thereafter will be considered. Bidders are solely responsible for delivery to and receipt by the Owner of bids. The time of receipt will determine the acceptability of mailed bids, regardless of postmark.
- B. Bidders are cautioned that while telegraphic modifications of Bids may be received as provided above, such modifications, if not explicit and if in any sense subject to misinterpretation, shall make the Bid so modified, or amended, subject to rejection.

13. OPENING OF BIDS

At the time and place fixed for the opening of Bids, the Owner will cause to be opened and publicly read aloud, every Bid received within the time set for receiving Bids, irrespective of any irregularities therein. Bidders and other persons properly interested may be present in person or by representative.

14. WITHDRAWAL OF BIDS

Bids may be withdrawn upon written or telegraphic request dispatched by the Bidder in time for delivery in the normal course of business to the time fixed for opening provided that written confirmation of any telegraphic withdrawal over the signature of the Bidder is placed in the mail and postmarked prior to the time set for Bid opening. The Bid Guarantee of any Bidder withdrawing his Bid in accordance with the foregoing conditions will be returned promptly.

15. DESCOPE MEETING

All bidders shall be available for a Pre-Bid Award Descope Meeting as may be required by the Owner. The Owner reserves the right to descope one or more bidders. Additionally, the meeting minutes of the Descope Meeting shall be enumerated as part of the signed contract agreement. The intent is NOT to renegotiate cost in any manner but to obtain clarifications and details of representations made by the Bidder to assure an understanding of the bid prior to final award.

16. AWARD OF CONTRACT; REJECTION OF BIDS

- A. The Contract will be awarded to the lowest, qualified responsible Bidder submitting the lowest bid complying with the conditions of the Invitation for Bids. The Bidder to whom the award is made will be notified at the earliest possible date. The Owner, however, reserves the right to reject any and all Bids and to waive any informality in Bids received, whenever such rejection or waiver is in its interest.
- B. The Owner reserves the right to consider as unqualified to do the work of general construction, any Bidder who does not habitually perform work with their own forces, the major portions of the work involved in the construction of the improvements embraced in this Site Improvements contract.
- C. The Owner will not award the Contract to any Contractor who is, at the time, ineligible under the provisions of any regulations issued by the Secretary of Labor; United States Department of Labor; or is not qualified under applicable ordinances of the City of Providence or the Laws of the State of Rhode Island. Attention of all Bidders is called to Title 37, Chapter 13, Sections 1-14, General Laws of Rhode Island, 1956, relative to the payment of wages, obligations and charges by Contractors on public works (see GENERAL CONDITIONS PART II, Section 202).

17. EXECUTION OF AGREEMENT; PERFORMANCE AND PAYMENT BOND

- A. Subsequent to the award within ten (10) days after the prescribed forms are presented for signature, the successful Bidder shall execute and deliver to the Owner an Agreement on the form included in the Contract Documents in such number of copies as the Owner may require.
- B. Having satisfied all conditions of award as set forth elsewhere in these documents, the successful Bidder shall, within the period specified in paragraph "A" above, furnish a surety bond in a penal sum not less than the amount of the Contract as awarded, as security for the faithful performance of the Contract and for the payment of all persons, firms or corporations to whom the Contractor may become legally indebted for labor, materials, tools, equipment, or services of any nature including utility and transportation services employed or used by him in performing the work. Such Bond shall be in the same form as that included in the Contract Documents and shall bear the same date as, or a date subsequent to, that of the Agreement. The current power of attorney for the person who signs for any surety company shall be attached to such bond. This bond shall be signed by a guarantee or surety company listed in the latest issue of the U.S. Treasury Circular 570 and the penal sum shall be within the maximum specified for such company in said Circular 570.
- C. The failure of the successful Bidder to execute such Agreement and to supply the required bond or bonds within ten (10) days after the prescribed forms are presented for signature, or within such extended period as the Owner may grant based upon reasons determined sufficient by the Local Public Agency, shall constitute a default and the Owner may either award the Contract to the next lowest responsible Bidder, or readvertise for Bids and, may charge against the Bidder the difference between the amount of the Bid and the amount for which a Contract for the work is subsequently executed; irrespective of whether the amount thus due exceeds the amount of the Bid Bond. If a more favorable Bid is received by readvertising, the defaulting Bidder shall have no claim against the Owner for a refund.

18. WAGES AND SALARIES

- A. Attention of Bidders is particularly called to the requirements concerning the payment of not less than the prevailing wage and salary rates specified in the Contract Documents and the conditions of employment with respect to certain categories and classifications of employees. See General Conditions, Part II.
- B. The rates of pay set forth under General Conditions, Part II, are the minimums to be paid during the life of the Contract. It is therefore the responsibility of Bidders to inform themselves as to local labor conditions, such as length of work day and work week, overtime compensation, health and welfare contributions, labor supply and prospective changes or adjustments of rates.
- C. Attention of all Bidders is called to Title 37, Chapter 13, Section I-14 of the General Laws of Rhode Island, 1956, relative to the payment of wages, obligations, and charges by contractors on public works.
- D. Prevailing wage rates and Davis-Bacon Wage Determination Reference Materials are available online at <https://beta.sam.gov/>.

19. EQUAL EMPLOYMENT OPPORTUNITY

Attention of Bidders is particularly called to the requirement for ensuring that employees and applicants for employment are not discriminated against because of their race, color, religion, sex, or national origin.

20. NOTICE TO PROCEED, TIME OF COMPLETION, AND LIQUIDATED DAMAGES

- A. The Bidder must agree to commence work on or before a date to be specified in a written Notice to Proceed by the Owner and to be substantially complete by **WEDNESDAY, JUNE 1, 2022** and fully completed by **THURSDAY, JUNE 30, 2022**.
- B. The Contractor is required to sign and date four (4) copies of the Notice to Proceed. The Contractor shall keep one copy and return the other three copies to the Department of Planning and Development, 444 Westminister Street, Providence, Rhode Island 02903 and the PPBA, 50 South Main Street, Providence, RI 02903.
- C. The Bidder must agree to commence work on or before a date to be specified in a written Notice to Proceed by the Owner and to fully complete the project by the indicated completion date. The Bidder will be subject to liquidated damages as indicated in the SPECIAL CONDITIONS, Section 303.

21. ITEMS NOT LISTED IN THE BID

Appurtenant items of work shown on the drawings or specified or required to complete the work but not listed separately under the list of items in the Bid shall be included in the cost of payment under the various applicable Bid items of work and no separate payment will be made for such items. It shall be the responsibility of the Contractor to verify any missing or incomplete data.

22. BALANCED BIDDING

Minus-bidding on any item or items of the specifications is prohibited. Bids should be made on each separate item of work shown in the Bid (proposal) with reasonable relation to the probable cost of doing the work included in such items; the right is reserved to reject wholly any Bid in case an item or items thereof are obviously unbalanced or appear to the Owner to be so unbalanced as to affect, or liable to affect adversely any interests of the Owner. The attention of the Bidder is called to the fact that unbalancing of Bids may adversely affect the Contractor if certain portions of the work are increased or decreased as provided in the Contract Documents.

23. PRICES

- A. Bidders shall state the proposed price for the work by which the Bids will be compared. This price is to cover all the expenses incidental to the completion of the work in full conformity with the contract specifications and drawings. The price or prices proposed shall be stated both in writing and in figures, and any Bid not so stated may be rejected.
- B. In the event that there is a discrepancy between the price written in words, and written in figures, the price written in words shall govern. No bid will be accepted which does not contain a unit or lump sum price for every item contained in the Bid Form.
- C. The Contractor shall provide Schedule of Rates for all Labor and Equipment as part of the Bid for the project. This rate table will be used for adjustments in costs in the event they are required.

24. UNCERTAINTY OF QUANTITIES

- A. The quantities listed in the Bid (proposal) are approximate and are given only for use in comparing Bids and to indicate approximately the total amount of the contract, and the Owner does not expressly or by implication represent that the actual amounts of work will even approximately correspond therewith but does call particular attention to the uncertainty in the quantities of the work involved which cannot be predicted in advance. The work under certain items may be materially greater or less than those given in the Bid (proposal) as may be necessary in the judgment of the Owner to complete the work contemplated in the contract. Attention is particularly called to the fact that the quantity of work to be done under some Bids may be largely dependent on subsurface ground conditions encountered and therefore the quantities of work to be done under the various items may vary substantially from the estimated quantities or may even be omitted.
- B. Under the contract, the Owner reserves the right to increase or decrease the approximate quantities for, or to omit entirely, any of the items as listed in the Bid.
- C. Only such quantities of the respective items of work actually performed and accepted will be paid for. An increase or decrease in the quantity for any item shall not be regarded as ground for an increase or decrease in the Bid Prices, except as provided for in the RHODE ISLAND DEPARTMENT OF TRANSPORTATION Standard Specifications for Road and Bridge Construction, 2004 Edition, Amended March 2018 GENERAL CONDITIONS PART 1, Section 104.0.7 a2.

25. CONTRACT

A contract in the form set forth hereinafter will be required to be executed by the successful Bidder and the Owner. The attention of all Bidders is, therefore, called to the form of said proposed contract and the provisions thereof.

26. WORK ON PRIVATE PROPERTY

Conditions may warrant work on private property due to grade change at a driveway, sidewalk or curb ramp. Work on private property may only occur with instruction from the Engineer and Owner.

27. CONDITIONS OF WORK

Each Bidder must inform himself fully of the conditions relating to the construction and labor under which the work is now or will be performed; failure to do so will not relieve the successful Bidder of his obligation to furnish all required materials, equipment, services, systems, and labor necessary to carry out all of the provisions of the Contract Documents, and to complete the prescribed set forth in their Bid. Insofar as possible, the Contractor, in the carrying out of their work must employ such methods or means as will not cause any reasonable interruption of or interference with traffic, the use of existing facilities and utilities, the use of municipally or State- or privately-owned lands, or with the work being performed by others. The Contractor shall perform the work in accordance with the Drawings and the Traffic Management Plan, as found in the appendices. The Contractor is responsible for any and all additional efforts required to accommodate protections for pedestrians, vehicles and bicycle traffic through the work zone, including providing temporary access routes/ramps that are detectable and include accessibility features consistent with the existing sidewalks, resulting infield conditions created by the means and methods deployed by the Contractor.

The Contractor must satisfy himself by his own investigation and research as to the nature and location of the work, the general and local conditions, including but not restricted to those bearing upon underground pipes and structures, subsurface soil conditions including rock and

groundwater, transportation, disposal, handling and storage of materials, water, electric power, roads, means of access, the construction and making of connections of the work to existing facilities and utilities, the locations of existing utilities and structures affecting the work, or other similar conditions at the site, the character of equipment and facilities needed preliminary to and during prosecution of the work, requirements of owners and controlling authorities having jurisdiction over the various lands, existing structures, facilities and utilities and all other conditions affecting the work to be done and labor and materials needed, and make his Bid in sole reliance thereon, and shall not at any time after the submission of a Bid assert that there was any misunderstanding in regard to the nature or amount of the work to be done.

28. NOTICE OF SPECIAL CONDITIONS

Attention is particularly called to those parts of the contract documents and specifications which deal with the following:

- A. Inspection and testing of materials
- B. Insurance requirements
- C. Wage rates
- D. Interpretation of drawings and specifications
- E. Test Pits
- F. The use of explosives
- G. As-built drawings
- H. Existing utilities and connections
- I. Layout of work
- J. Locations of work
- K. Schedule of work
- L. Salvageable materials
- M. Construction schedule
- N. Preconstruction conference
- O. Occupational Safety and Health Standards (OSHA) required PPE shall be provided by the Contractor as part of their costs, as well as any PPE Requirements related to Covid-19

The Contractor shall submit a Life and Safety Plan prior to the execution of the Work including the Contractor's COVID-19 Plan
- P. Environmental

29. LAWS AND REGULATIONS

The Bidder's attention is directed to the fact that all applicable Federal and State laws, municipal ordinances and the rules and regulations of all authorities having jurisdiction over construction of

the project shall apply to the contract throughout, and they will be deemed to be included as if they are attached and written in full.

30. DEFINITIONS

The term "Owner" means the Department of Planning and Development which is authorized to undertake this contract.

31. SEQUENCE OF CONSTRUCTION

The Contractor shall schedule his operations so as to minimize delays and inconvenience to traffic and shall at all times cooperate with the City of Providence, Parks Department, Department of Public Properties, Police and Fire Departments, the Traffic Engineering Department and the Department of Planning & Development and their appointed representatives. The Contractor shall also cooperate with the Department of Public Works, the Rhode Island Department of Transportation, the Providence Water Supply Board, National Grid, the Rhode Island Public Transit Authority (bus stops and route impacts) and other private companies. The Contractor shall submit his proposed "Sequence of Construction" to the Engineer and Owner for approval before commencing work.

32. TITLE 37 - CHAPTER 13 (LABOR AND PAYMENT OF DEBTS BY CONTRACTORS – GENERAL LAWS OF RI, 1956, AS AMENDED)

Title 37 - Chapter 37-13 of the General Laws of RI, 1956, as amended, shall be considered part of this Contract as if attached and written in full.

33. PROVIDENCE CODE OF ORDINANCES – SECTION 21.28.1. QUALIFICATIONS OF PARTIES DOING BUSINESS WITH THE CITY.

The Contractor shall comply fully with this Section as if attached and written in full.

https://library.municode.com/ri/providence/codes/code_of_ordinances

34. INSTRUCTIONS TO BIDDERS

Instructions to Bidders are contained in the Instructions to Bidders Division, of which this Article is hereby made part of. When the provisions of the Contract Documents are changed by this Article, the portion modified is referred to by number. Unchanged portions and other provisions remain intact.

35. BID SECURITY

Bid Security shall be in the amount stated in the Board of Contract and Supply CONSTRUCTION & SERVICE CONTRACT BID TERMS and INVITATION FOR BIDS and shall be: Bid Bond naming the City of Providence as Obligee.

36. PRE-BID CONFERENCE

A MANDATORY PRE-BID CONFERENCE HAS BEEN SCHEDULED FOR MONDAY, AUGUST 2, 2021 AT 1:30 PM. THE PRE-BID CONFERENCE WILL OCCUR OVER ZOOM.

<https://mcmahon.zoom.us/j/99394678917?pwd=bmdlY0p4VWFwcE1mMkRUjYTY3VENkdz09>

37. BIDDING REQUIREMENTS

Notice of Special Requirements:

-
- A. Attention is particularly called to those parts of the Contract Documents and Specifications dealing with the following:
1. Non-Collusive Affidavit
 2. Insurance Requirements
 3. Wage Rates
 4. Required State Certifications
 5. Requirements for Affirmative Action
 6. Federal Procurement Regulations
 7. Minority Employment and EEO Compliance
 8. Special Requirement for All Out-of-State Contractors and Firms
 9. First Source List
 10. Miscellaneous/Notifications/Required License
 11. City of Providence Code of Ordinances, Chapter 21, Article II, Section 21-52. Minority and Women Business Enterprise
 12. City of Providence Code of Ordinances, Chapter 21, Article II, Section 21-28.1. Qualifications of parties doing business with the Owner.
- B. The Bidder is specifically advised that any person or firm, or other party to whom it is proposed to award a subcontract under this Contract must be acceptable to the Owner.

38. REQUIRED BID DOCUMENTS

- A. The following documents must be fully executed on the special forms provided herein and must accompany all bids:
1. Form of Bid
 2. City of Providence Board of Contract and Supply and MBE/WBE Participation Forms
 3. Bid Bond
 4. Certificate of Corporate Principal
 5. Non-Collusion Affidavit of Prime Bidder
 6. Non-Collusion Affidavit of Subcontractor
 7. Certification of Non-Segregated Facilities
 8. Bidder's Certification for Equal Employment Opportunity
 9. Special Requirement for All Out-of-State Contractors and Firms

-
10. Certification with Regard to Performance of Previous Contracts and Subcontracts
 11. Affidavit of Non-Discrimination
 12. Certification of Non-Discrimination in Equal Employment Opportunity
 13. Statement of Bidders Qualifications
 14. Proposed Subcontractors
 15. Schedule of Unit Prices (Appendix K)
 16. Schedule of Rates for all Labor and Equipment

39. CERTIFICATE OF NON-SEGREGATED FACILITIES

All contractors should be aware of the Certification of Non-Segregated Facilities which is part of the Bid proposal.

40. CERTIFICATION WITH REGARD TO PERFORMANCE OF PREVIOUS CONTRACTS OR SUBCONTRACTS SUBJECT TO THE EQUAL OPPORTUNITY CLAUSE

In general, this certificate refers to Standard Form 100, which is an annual form submitted by certain contractors to the U.S. Department of Labor. Contractors should refer to the Federal Procurement Regulations for a more thorough explanation of this report.

41. SUBMISSION OF STANDARD FORM 257

Bidders shall be advised that the contractor who is awarded the Contract will be required to submit to the Department of Labor Form 66 and the Minority Manpower Utilization Report. This report will be completed for the Owner on the fifth day of each month for work done the preceding month. This report is required of not only the prime contractor, but all subcontractors and must reflect minority manpower utilization for all work done in the State during the performance of this Contract.

42. MISCELLANEOUS / NOTIFICATIONS

- A. The Contractor shall notify "Dig-Safe" and all public and private utility companies for confirmation and layout of utility locations prior to the commencement of work.

City-Owned utilities such as but not limited to drainage, sewers, traffic signal and street lighting infrastructure are NOT PART of the DIG SAFE program in Providence and are not marked by the City of Providence. Contractors are urged to exercise due diligence and review handholes, manholes, fixtures and other visual clues that underground utilities exist in the Work Zone that may not be located and marked by Dig Safe. This effort may require observing underground structures by removing manhole and handhole covers to observed depths and direction of utilities. Additionally, the Providence Department of Public Works does have a limited library of public utilities and roadway information on file. This information can be obtained by contacting the Engineering Division at DPW.

- B. Refer to the Contract Specifications for Additional Requirements.
- C. The Contractor shall verify all dimensions and accurately locate the property boundary and Limit-of-Work lines to the satisfaction of the Owner prior to the commencement of work.

-
- D. As of **May 18, 1995**, all contractors proposing to execute work within the public right-of-way in the City of Providence must obtain an annual sidewalk license through the Providence Department of Public Works, 700 Allens Avenue, Providence, RI. The **annual license fee is \$100.00**, to be paid by the Contractor.

The Contractor shall be back charged for at actual costs to correct issues resulting from not failure to perform this task and required timely notifications of work. The Contractor will not be eligible for extensions in time for failure to comply.

- E. Project layout and the highest standards of execution for the project is extremely important. All methods and materials will be approved in advance of the execution of work. The Contractor, Owner and the Engineer Inspector and Project Manager shall agree on a project schedule, acceptable work schedule and schedule of approvals in advance of any work or action taken on the site and delivery of materials.

Contractors and Subcontractors shall provide all the qualified and skilled labor required to meet the quality level expected for this project. If the Owner determines that the Contractor is not providing the labor and skill required he/she will be required to immediately provide new personnel or Subcontractor for said skill acceptable to the Owner to replace unacceptable sections/areas and continue the project.

Work deemed unacceptable during the course of the work will be cause for the Owner to reasonably withhold payments for work completed to-date until acceptability is achieved and required work is properly corrected. The contractor shall not proceed to new work until work done to-date is acceptable.

43. HOLDING OF BIDS BY DEPARTMENT OF PUBLIC WORKS

Bids may be held by the Owner for a period not to exceed ninety (90) days from the date of Opening of Bids, for the purpose of reviewing of bids and investigating the qualifications of bidders, all prior to award of Contract.

44. AWARD OF CONTRACT / START OF CONSTRUCTION

The CONTRACT for construction is expected to be awarded on **MONDAY, SEPTEMBER 13, 2021**. The Board of Contract and Supply may take up to 60 days to formally award the Contract and the Contract shall commence work no earlier than 5 days and no later than 10 days after signed contract unless otherwise agreed to in writing.

CONTRACTOR shall commence construction within ten (10) calendar days of issuance of NOTICE-TO-PROCEED. The Contractor shall have made application for required bonds no later than the day after Contract Award. The City reserves the right to issue notices to proceed in phases.

REQUIRED BIDDING DOCUMENTS BROAD STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

List of Forms:

The following forms must be completed and signed by the bidder and included with the bid. Failure to execute any form, or portion thereof may lead to disqualification of a bid.

1. Form of Bid
2. Purchasing Department Documents and MBE/WBE Participation Forms
3. Bid Bond
4. Certificate as to Corporate Principal
5. Non-Collusion Affidavit of Prime Bidder
6. Non-Collusion Affidavit of Subcontractor
7. Certification of Non-Segregated Facilities
8. Bidder's Certification for Equal Employment Opportunity
9. Special Requirement for All Out-of-State Contractors and Firms
10. Certification with Regard to Performance of Previous Contracts and Subcontracts
11. Affidavit of Non-Discrimination
12. Certification of Non-Discrimination in Equal Employment Opportunity
13. Statement of Bidder's Qualifications
14. Proposed Subcontractors
15. Schedule of Unit Prices (Appendix K)
16. Schedule of Rates for all Labor and Equipment

**FORM OF BID
BROAD STREET IMPROVEMENTS**

PROVIDENCE, RHODE ISLAND

**TO: PURCHASING OFFICE
3rd Floor City Hall
Providence, Rhode Island 02903**

Gentlemen:

1. The undersigned, having familiarized (himself) (themselves) (itself) with existing conditions at the **Broad Street Improvements** project affecting the cost of work, and with the Contract Documents (which includes the Invitation for Bids, Instructions to Bidders, Form of Bid, Form of Bid Bond, Form of Agreement, Form of Non-Collusive Affidavit, Addenda (if any), Drawings, Technical Specifications, Schedule of Unit Prices (Phase 2) and Schedule of Unit Prices (Phase 2 – Resurfacing), Form of Surety Bond(s); as prepared by the Department of Public Works, and on file in the office of the Department of Public Works, 700 Allens Avenue, Providence, RI 02905, hereby proposes to furnish all supervision, technical personnel, labor, materials, machinery, tools, equipment and services including utility and transportation services, and to perform and complete all required work for the **BROAD STREET IMPROVEMENTS** project and such other required and incidental work, complete, all in accordance with the above listed documents and for the unit prices for work in-place for the items and quantities listed in the submitted Schedules of Unit Prices.

Total of Bid – BROAD STREET IMPROVEMENTS- For the sum of: \$ _____
_____ Dollars

Total of Bid – BROAD STREET IMPROVEMENTS – Resurfacing Add-Alternate - For the sum of: \$ _
_____ Dollars

Total of Bid – Combined - For the sum of: \$ _____
_____ Dollars

2. In submitting this Bid, the Bidder understands that the right is reserved by the Owner to reject any and all Bids. If written notice of acceptance of this Bid is mailed, telegraphed or delivered to the undersigned within (90) days after the opening thereof, or at any time thereafter before this Bid is withdrawn, the undersigned agrees to execute and deliver an Agreement in the prescribed form and furnish the required bond within ten (10) days after the Agreement is presented to him/her for signature.

3. Security in the sum of _____ Dollars (\$ _____), in the form of _____ is submitted herewith in accordance with the Instructions to Bidders.

4. Attached hereto is an affidavit in proof that the undersigned has not colluded with any person in respect to this Bid or any Bids for the Contract for which this Bid is submitted. Also attached is a Statement of Bidder's Qualifications.

5. The Bidder is prepared to submit a financial and experience statement upon request.

6. If applicable unit prices are contained in the Agreement (established as the result of a Unit Price), the Owner may order the Contractor to proceed with desired changes in the work, the value of such changes to be determined by the measured quantities involved and the applicable unit prices specified in the Contract; provided that in case of a unit price contract the net value of all changes does not increase or decrease the original total amount shown in the Agreement by more than **twenty-five percent (25%)** in accordance with the Section entitled Unit Prices, under Instructions to Bidders.

Bidder Signature and Acknowledgement of Addenda:

DATE: _____, 20____

Official Address:

Name of Bidder (Firm):

 By: _____ *(Signature)*
 Title: _____

Bidder shall indicate, in space provided, the earliest possible Project **Start-up Date:**

_____, 20____

ADDENDA: The undersigned acknowledges receipt of the following Addenda, if any, and has included the provisions thereof in this Bid:

<u>Addendum No.</u>	<u>Date</u>	<u>Addendum No.</u>	<u>Date</u>
_____	_____, 20____	_____	_____, 20____
_____	_____, 20____	_____	_____, 20____
_____	_____, 20____	_____	_____, 20____
_____	_____, 20____	_____	_____, 20____

MBE/WBE PARTICIPATION AFFIDAVIT

Item Description (as seen on RFP):

Prime Bidder: _____

Prime Bidder (Company) Phone Number: _____

Prime Bidder (Company) Zip Code: _____

Which one of the following describes your business' status in terms of Minority and/or Woman-Owned Business Enterprise certification with the State of Rhode Island? ___ MBE ___ WBE ___ Neither MBE nor WBE

By initialing the following sections and signing the bottom of this document in my capacity as the contractor or an authorized representative of contractor, I make this Affidavit:

It is the policy of the City of Providence that minority business enterprises (MBEs) and women business enterprises (WBEs) should have the maximum opportunity to participate in procurements and projects as prime contractors and vendors. Pursuant to Sec. 21-52 of the Providence Code of Ordinances and Chapter 31-14 *et seq.* of the Rhode Island General Laws (as amended), MBE and WBE participation goals apply to contracts.

The goal for Minority Business Enterprise (MBE) participation is 10% of the total bid value.
The goal for Women's Business Enterprise (WBE) participation is 10% of the total bid value.
The goal for combined MBE/WBE participation is 20% of the total bid value.

I acknowledge the City of Providence's goals of supporting MBE/WBE certified businesses. Initial _____

If awarded the contract, I understand that my company must submit to the Minority and Women's Business Coordinator at the City of Providence (MBE/WBE Office), copies of all executed agreements with the subcontractor(s) being utilized to achieve the participation goals and other requirements of the RI General Laws. **I understand that these documents must be submitted prior to the issuance of a notice to proceed.** Initial _____

I understand that, if awarded the contract, my firm must submit to the MBE/WBE Office canceled checks and reports required by the MBE/WBE Office on a quarterly basis verifying payments to the subcontractors(s) utilized on the contract. Initial _____

If I am awarded this contract and find that I am unable to utilize the subcontractor(s) identified in my Statement of Intent, I understand that I must substitute another certified MBE and WBE firm(s) to meet the participation goals. **I understand that I may not make a substitution until I have obtained the written approval of the MBE/WBE Office.** Initial _____

If awarded this contract, I understand that authorized representatives of the City of Providence may examine the books, records and files of my firm from time to time, to the extent that such material is relevant to a determination of whether my firm is complying with the City's MBE/WBE participation requirements. Initial _____

I do solemnly declare and affirm under the penalty of perjury that the contents of the foregoing Affidavit are true and correct to the best of my knowledge, information and belief.

Signature of Bidder

Printed Name

Company Name

Date

SUBCONTRACTOR DISCLOSURE FORM

Fill out this form only if you WILL SUBCONTRACT with other parties. If you will not subcontract any portion of the proposed bid, do not fill out this form.

Prime Bidder: _____ Primary NAICS Code: _____

Item Description (as seen on RFP):

Please list all Subcontractors below. Include the total dollar value that you propose to share with each subcontractor and the dollar amount to be subcontracted. Please check off MBE and WBE where applicable. The directory of all state-certified MBE/WBE firms is located at www.mbe.ri.gov. Business NAICS codes can be found at <https://www.naics.com/search/>

Proposed Subcontractor	MBE	WBE	Primary NAICS Code	Date of Mobilization	\$ Value of Subcontract
					\$
					\$
					\$
					\$
					\$
					\$
A. MBE SUBCONTRACTED AMOUNT:					\$
B. WBE SUBCONTRACTED AMOUNT:					\$
C. NON MBE WBE SUBCONTRACTED AMOUNT:					\$
D. DOLLAR AMOUNT OF WORK DONE BY THE PRIME CONTRACTOR:					\$
E. TOTAL AMOUNT OF BID (SUM OF A, B, C & D):					\$
F. PERCENTAGE OF BID SUBCONTRACTED TO MBEs AND WBEs. (Add A and B. Divide by E and multiply by 100).					%

Please read and initial the following statement acknowledging you understand.

If the percentage of the total amount of the bid being awarded to MBE or WBE vendors is less than 20% (Box F) and the prime contractor is NOT a Rhode Island State-certified MBE or WBE, **you must fill out the MBE/WBE WAIVER REQUEST FORM for consideration by City of Providence MBE/WBE Outreach Director.** Initial _____

Signature of Prime Contractor

Printed Name

Date Signed

MBE/WBE WAIVER REQUEST FORM

Fill out this form only if you are using subcontractors and did not meet the 20% MBE/WBE participation goal. MBE or WBE Prime Bidders that are certified by the State of Rhode Island are NOT REQUIRED to fill out this form.

Submit this form to the City of Providence MBE/WBE Outreach Director, Grace Diaz, at mbe-wbe@providenceri.gov for review **prior to bid submission**.

This waiver applies only to the current bid which you are submitting to the City of Providence and does not apply to other bids your company may submit for in the future.

Prime Bidder: _____

Company Trade: _____

Item Description (as seen on RFP):

To receive a waiver, you must list the certified MBE and/or WBE companies you contacted, the name of the primary individual with whom you interacted, and the reason the MBE/WBE company could not participate on this project.

MBE/WBE Company Name	Individual's Name	Company Trade	Why did you choose not to work with this company?

I acknowledge the City of Providence's goal of a combined MBE/WBE participation is 20% of the total bid value. I am requesting a waiver of _____ % MBE/WBE (20% minus the value of **Box F** on the Subcontractor Disclosure Form). If an opportunity is identified to subcontract any task associated with the fulfillment of this contract, a good faith effort will be made to select MBE/WBE certified businesses as partners.

Signature of Prime Contractor

Printed Name

Date Signed

Signature of City of Providence
MBE/WBE Outreach Director

Printed Name of City of Providence
MBE/WBE Outreach Director

Date Signed

BID BOND
Broad Street Improvements

PROVIDENCE, RHODE ISLAND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned, _____ as
(Name of Principal)
PRINCIPAL, and _____ AS SURETY are held and firmly bound unto
(Name of Surety)

the **City of Providence** hereinafter called the "Owner", in the penal sum of

_____ Dollars,

(\$ _____) lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that Whereas the principal has submitted the Accompanying Bid, Dated _____, 20____, for

NOW, THEREFORE, if the Principal shall not withdraw said Bid within the period specified therein after the opening of the same, or, if no period be specified, within thirty (30) days after the said opening, and shall within the period specified therefor, or if no period be specified, within ten (10) days after the prescribed forms are presented to him for signature, enter into a written Contract with the Owner in accordance with the Bid as accepted and give bond with good and sufficient surety or sureties, as may be required, for the faithful performance and proper fulfillment of such Contract; or in the event of the withdrawal of said Bid, within the period specified, or the failure to enter into such Contract and give such bond within the time specified, if the Principal shall pay the Owner the difference between the amount specified in said Bid and the amount for which the Owner may procure the required work or supplies or both, if the latter be in excess of the former, then the above obligation shall be void and of no effect, otherwise to remain in full force and virtue.

IN WITNESS WHEREOF, the above-bounded parties have executed this instrument under their several seals this _____ day of _____, 20____, the name and corporate seal of each corporate party being hereto affixed and these presents signed by its undersigned representative, pursuant to authority of its governing body.

In presence of: _____ (Seal)

(Individual Principal) _____
_____ (Business Address including Zip)

(Title) _____ (Seal)
_____ (Partnership)

_____ (Business Address including Zip)

By: _____

Attest:

_____ (Corporate Principal)

_____ (Business Address including Zip)

By: _____
_____ (Affix Corporate Seal)

Attest:

_____ (Corporate Surety)

By: _____
_____ (Affix Corporate Seal)

Countersigned:

by _____

*Attorney-in-Fact, State of _____

(*Power-of-attorney for person signing for surety company must be attached to bond.)

CERTIFICATE AS TO CORPORATE PRINCIPAL
Broad Street Improvements

P R O V I D E N C E , R H O D E I S L A N D

I, _____, certify that I am the _____, Secretary of the Corporation named as Principal in the within bond; that, who signed the said bond on behalf of the Principal was then _____ of said corporation; that I know his signature, and his signature thereto is genuine; and that said bond was duly signed, sealed, and attested to for and in behalf of said corporation by authority of this governing body.

_____ (Corporate Seal)

(Title)

**NON-COLLUSION AFFIDAVIT OF PRIME
BIDDER**
Broad Street Improvements

P R O V I D E N C E , R H O D E I S L A N D

State of _____

County of _____

_____, being first duly sworn, deposes and says that:

- (1) He is _____ of _____
(owner, partner, officer, representative, or agent) _____
, the Bidder that has submitted the attached Bid:
- (2) He is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid:
- (3) Such Bid is genuine and is not a collusive or sham Bid;
- (4) Neither the said Bidder nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly with any other Bidder, firm or person to submit a collusive sham Bid in connection with the Contract for which the attached Bid has been submitted or to refrain from bidding in connection with such Contract, or has communication or conference with any other Bidder, firm or person to fix the price or prices in the attached Bid or of any other Bidder, or to fix any overhead, profit or cost element of the Bid price or the Bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance or unlawful agreement, any advantage against the Department of Public Works or any person interested in the proposed Contract; and
- (5) The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

(Signed) _____

(Title)

Subscribed and sworn to before me this
_____ day of _____, 20____

(Title)
My Commission expires _____

**NON-COLLUSION AFFIDAVIT OF
SUBCONTRACTOR
BROAD STREET IMPROVEMENTS**

PROVIDENCE, RHODE ISLAND

State of _____

County of _____

_____, being first duly sworn, deposes and says that:

(1) He is _____ of _____
(owner, partner, officer, representative, or agent) _____

, the Subcontractor that has submitted the attached Bid:

(2) He is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid:

(3) Such Bid is genuine and is not a collusive or sham Bid;

(4) Neither the said Subcontractor nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly with any other Subcontractor, Bidder, firm or person to submit a collusive sham Bid in connection with the Contract for which the attached Bid has been submitted or to refrain from bidding in connection with such Contract, or has communication or conference with any other Subcontractor, Bidder, firm or person to fix the price or prices in the attached Bid or of any other Subcontractor, Bidder, or to fix any overhead, profit or cost element of the Bid price or the Bid price of any other Subcontractor, Bidder, or to secure through any collusion, conspiracy, connivance or unlawful agreement, any advantage against the Department of Public Works or any person interested in the proposed Contract; and

(5) The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Subcontractor or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

(Signed) _____

(Title)

Subscribed and sworn to before me this

_____ day of _____, 20____

(Title)

My Commission expires _____

**CERTIFICATION OF
NON-SEGREGATED FACILITIES**
Broad Street Improvements

PROVIDENCE, RHODE ISLAND

The Bidder certifies that he/she does not maintain or provide for his/her employees any segregated facilities at any of his establishments, and that he/she does not permit his/her employees to perform their services at any location, under his/her control, where segregated facilities are maintained. The Bidder agrees that a breach of this certification will be a violation of the Equal Opportunity Clause in any contract resulting from acceptance of this Bid. As used in this certification, the term "segregated facilities" means any waiting rooms, work rooms, restrooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, or national origin, because of habit, local custom, or otherwise. The Bidder agrees that (except where he/she has obtained identical certification from proposed subcontractors for specific time periods) he/she will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000.00 which are not exempt from provisions of the Equal Opportunity Clause, and that he/she will retain such certifications in his/her files.

Note: The penalty for making false statements in offers is prescribed in 18 U.S.C. & 1001.

Date _____, 20____

Official Address:

Name of Bidder (Firm):

By _____
(Name)

(Signature)

Title _____

**BIDDER'S CERTIFICATION FOR
EQUAL EMPLOYMENT OPPORTUNITY**
Broad Street Improvements

PROVIDENCE, RHODE ISLAND

In compliance with Executive Order 11246 Equal Opportunity (GC II, Section 210, or latest publication) the Bidder hereby certifies he shall comply with Bid Conditions, Affirmative Action Requirements, Equal Employment Opportunity, as provided in the attachment Shown on pages GC II - 47a to GC II - 47f, or latest publication.

Full name and address of individual or company submitting this Bid:

Signed _____
Name _____
Title _____
Date _____

Notice: Bid should be signed in ink by a person having proper legal authority, and the person's title should be given, such as "Owner" in the case of an individual, "Partner" in the case of a general partnership, "President", Treasurer, or other authorized officer in the case of a corporation.

**SPECIAL REQUIREMENT FOR ALL
OUT-OF-STATE CONTRACTORS AND FIRMS
Broad Street Improvements**

PROVIDENCE, RHODE ISLAND

It is the understanding that any and all out-of-state firms and companies must be registered to do business in the State of Rhode Island with the Secretary of State's Office. Any false statements made in this regard will cause this Contract to become null and void at the option of the City, therefore, in accordance with this requirement the following statement is made:

I (we) being duly sworn officers of said company or firm, hereby declare and affirm that this company or firm is registered with the Rhode Island Secretary of State's Office to do business in Rhode Island.

(Company or Firm)

Attest:

Signature _____

Name _____

Title _____

Note: If proposal is being made by an in-state contractor or firm, this form may be left blank.

**CERTIFICATION WITH REGARD TO
PERFORMANCE OF PREVIOUS CONTRACTS
AND SUBCONTRACTS
Broad Street Improvements**

PROVIDENCE, RHODE ISLAND

The Bidder _____, proposed Subcontractor _____, hereby certifies that he/she ___ HAS ___ HAS NOT, participated in a previous contract or subcontract subject to the Equal Opportunity Clause, as required by Executive Orders 10924, 11114, or 11246 and that he/she ___ HAS ___ HAS NOT, filed with the Joint Reporting Committee, the Director of the Office of Federal Contract Compliance, a Federal Government contracting or administering agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements:

Signature _____ Date _____
Company _____ By _____
Title _____

NOTE: The above certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor (41 CFR 60-1.7 (b)(1), and must be submitted by bidders and proposed subcontractors any in connection with the contracts and subcontracts which are subject to the Equal Opportunity Clause. Contracts and subcontracts which are exempt from the Equal Opportunity Clause are set forth in 41 CFR 60-15. Generally, only contracts or subcontracts of \$10,000.00 or under are exempt.

Currently, Standard Form 100 (EEO-11) is the only report required by the Executive Orders or their implementing regulations. Proposed prime contractors and subcontractors who have participated in a previous contract or subcontract subject to the

Executive Orders and have filed the required reports should note that 41 CFR 60-1.7(b)(1) prevents the award of contracts

and subcontracts unless such contractor submits a report covering the delinquent period or such other period specified by the Federal Highway Administration or by the Director, Office of Federal Contract Compliance, U.S. Department of Labor.

**AFFIDAVIT OF NON-DISCRIMINATION
Broad Street Improvements**

PROVIDENCE, RHODE ISLAND

State of _____

County of _____

_____, being first duly sworn, deposes and says that:

He is the _____ of _____

a corporation organized and existing under the Laws of _____ and the

Contractor for the _____

Project No.that he makes this affidavit for and on behalf of said Corporation; that during the period

_____, 20__ to _____, 20__, the said corporation has maintained the practices of employment as required by federal, state, and city laws in regards to the hiring of employees for the aforementioned project and that in employment, upgrading, the demotion or transfer, recruitment or recruitment advertising; layoffs or termination, rates of pay or other forms of compensation; and selection for training including apprenticeship, that it has not discriminated against any employee or applicant for employment on the work covered by this contract because of race, religion, color or national origin.

Signed _____

Name _____

Title _____

Subscribed and sworn to before me this

_____ day of _____, 20__ (Seal)

Signed _____

Title _____

My commission Expires _____

**CERTIFICATION OF NON-DISCRIMINATION
IN EQUAL EMPLOYMENT OPPORTUNITY
Broad Street Improvements**

P R O V I D E N C E , R H O D E I S L A N D

The bidder represents the he/she/has, _has not, participated in a previous contract or subcontract to either the equal opportunity clause contracted in Section 202 of the Executive Order 11246; that he/she has, has not,

filed with the Joint Reporting Committee, the Director of OFCC, any Federal agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements of those organizations; and that representations indicating submission of required compliance reports, signed by proposed subcontractors will be obtained prior to subcontract awards.

Full name and address of individual or company submitting this Bid:

Signed _____

Name _____

Title _____

Date _____

Notice: Bid should be signed in ink by a person having proper legal authority, and the person's title should be given, such as "Owner" in the case of an individual, "Partner" in the case of a general partnership, "President", Treasurer, or other authorized officer in the case of a corporation.

STATEMENT OF BIDDER'S QUALIFICATIONS

Broad Street Improvements

PROVIDENCE, RHODE ISLAND

Separate statements shall be submitted by the bidder with his/her proposal for Him/herself, the Designer, the Construction Contractor, and for major design or construction subcontractors. All questions must be answered completely. The date given must be clear and comprehensive. This statement must be notarized. If necessary, questions may be answered on separate attached pages keyed into this form. The bidder may submit any additional information he/she desires.

1. Name of Bidder _____ (Proper Name First)
2. Contact Person / Title _____
3. Permanent Main _____
Office Address _____
4. Telephone _____
5. When Organized _____
6. If a Corporation,
When Incorporated _____
7. How many years have you been engaged in the contracting business under your present firm or trade name?

8. State your current contracts in-hand. (Schedule the contracts showing amount of each contract and the appropriate anticipated date of completion.)

9. Will your firm be the Bidder, Designer, Construction Contractor, or Design or Construction Contractor for this project?

10. State the general character of work performed by your Company:

11. Have you ever failed to complete any work awarded to you? _____

If so, where and why: _____

12. Have you ever defaulted on a contract? _____

If so, where and why: _____

13. List the more important projects recently completed by your Company, stating the appropriate cost for each, and the month and year complete:

Projects	Cost	Completion Date
-----------------	-------------	------------------------

14. List the major equipment your Company has available for this project:

18. Based on your knowledge of construction and the Owner's program for the project, indicate a project completion date:

19. Credit Available: _____

20. Give bank reference: _____

21. Will you, upon request, complete a detailed financial statement and furnish any other information requested by the Owner?

22. The Bidder hereby authorizes and requests any person, firm, or corporation to furnish any information requested by the Owner in verification of the recitals comprising this:

STATEMENT OF BIDDER'S QUALIFICATIONS, dated _____

this _____ day of _____, 20_____

Name of Bidder _____

By/Title _____

State of _____

County of _____

Subscribed and sworn before me

____ day of _____, 20_____

Signed _____

Title _____

My Commission expires _____

CONTRACT FORMS
Broad Street Improvements

P R O V I D E N C E , R H O D E I S L A N D

List of Forms

1. AGREEMENT

Misc. Agreement Forms: (TO BE SUBMITTED PRIOR to CONTRACT SIGNING)

2. PERFORMANCE / PAYMENT BOND
3. LABOR AND MATERIAL PAYMENT BOND

CONSTRUCTION AGREEMENT

Broad Street Improvements

PROVIDENCE, RHODE ISLAND

CONSTRUCTION AGREEMENT BETWEEN THE CITY OF PROVIDENCE, THE CITY OF PROVIDENCE DEPARTMENT OF PLANNING AND DEVELOPMENT, AND THE PROVIDENCE PUBLIC BUILDINGS AUTHORITY,
AND

[CONTRACTOR]

BROAD STREET IMPROVEMENTS

This Construction Agreement (“Agreement”) is made this **[#]th day of [Month]**, 2021 by and between the City of Providence, City of Providence Department of Planning and Development (DPD) and the Providence Public Buildings Authority (PPBA) (collectively “Owner”) and **[Firm, Address, City, State, Zip]** (“Contractor”) (jointly, “Parties”).

Project: R.I. Federal Aid Project No. 405-421-868 and R.I. Contract No. 2018-EC-001 are for Broad Street Improvements. The work to be performed under this Contract includes, but is not limited to, all labor, material, and equipment necessary to construct sidewalk and roadway improvements on Broad Street between Elmwood Avenue and Hawthorne Avenue in the City of Providence, RI. Included in the work is the installation of new concrete sidewalk, curb ramps, and detectable warning systems; installation of floating bus stops; removal and disposal of existing signs and installation of new signs; installation of pavement markings; traffic signal modifications; and all other incidentals necessary to execute the work complete in place and accepted within the limits of this contract to the satisfaction of the Engineer and Owner.

City of Providence Capital Improvement Program funds are for the resurfacing of Broad Street, within the limits noted above, as an add-alternate to the Broad Street Improvements project. The work associated with the add-alternate infrastructure improvements includes, but is not limited to, the resurfacing of Broad Street and the installation of new curb ramps and all other incidentals necessary to execute the work complete in place and accepted within the limits of the add-alternate to the satisfaction of the Engineer and Owner.

Project Address: Broad Street between Elmwood Avenue and Hawthorne Avenue.

Contractor agrees to complete the work identified in this Agreement and in the Contract Documents, (“Project”). With regard to the Project, Owner and Contractor agree:

1. CONTRACT DOCUMENTS

- 1.1. This Agreement, the scope of work, invitation for bids, and any other documents referenced in or attached to this agreement are collectively referred to as the “contract documents,” and include:
- 1.2. Contract Documents prepared by the Department of Planning and Development and issued by Owner as part of the Request for Proposals – Broad Street Improvements awarded in September 2021;
 - 1.2.1. Bid submitted by Contractor dated **[enter date]**;

- 1.2.2. Contract Documents, Broad Street Improvements, prepared by Department of Planning and Development, dated July 2021;
 - 1.2.3. Plan of Proposed Broad Street Improvements, Broad Street (Elmwood Avenue to Hawthorne Avenue), City of Providence, RI Contract No. 2018-EC-001, prepared by McMahon Associates, Inc., dated July 2021;
 - 1.2.4. Plan of Proposed Broad Street Improvements– Resurfacing, Broad Street (Elmwood Avenue to Hawthorne Avenue), City of Providence, prepared by McMahon Associates, Inc., dated July 2021.
- 1.3 Each of the Contract Documents forms part of and is fully incorporated in this Agreement.
 - 1.4 To the extent any of the Contract Documents that form part of and are incorporated in this Agreement differ or contradict the terms of this Agreement, the terms of this Agreement shall control.

2. SCOPE OF WORK AND AGREEMENT PRICE

- 2.1 Contractor, having examined the Contract Documents and Project Site, agrees to be bound by the Contract Documents.
- 2.2 Contractor agrees to furnish all required Project Management, labor, materials, equipment, competent supervision, tools, safety measures, transportation costs, proof of insurance, performance bond and payment bond (as directed by Owner) and any and all other appurtenant items necessary for complete performance of the Contract Work in a good and workmanlike manner.
- 2.3 The Contract Work shall conform to all applicable laws, regulations and/or ordinances of any and all governmental agencies including Quasi and having jurisdiction over the Contract Work. All required standards required by the Utility Providers shall be strictly complied with unless otherwise confirmed in writing by the Engineer and Owner.
- 2.4 Contractor agrees to perform the necessary construction, project installation and oversight work set forth in the Scope of Work.
- 2.5 Contractor agrees to perform the Contract Work strictly in accordance with the Contract Documents, task order and subject to the final approval of Owner for the Agreement Price. Owner and Contractor may amend the Agreement Price only by a written Change Order executed by both Parties. Contractor shall not charge overtime or travel time to Owner unless Owner first approves such charges in writing.
- 2.6 Contractor is responsible for the cleanup and removal of all debris associated with the Contract Work to assure the safety and protection of all persons and property associated with the Project.
- 2.7 If the progress schedule cannot be met due to business interruption and circumstances beyond the control of Contractor, the Owner and Contractor shall discuss and document the cause of such delay and present to the Owner to review and discuss reasonable means to complete the work to avoid further delay. No overtime work will be conducted without an agreed upon Change Order.
- 2.8 From Time to Time the Contractor may be given advanced notice of special events taking place within the Project Limit Lines that will require special attention to work around and/or otherwise provide detailed cleanup, minimize road openings and sidewalk closures as well other applicable tasks that may be required. These events will be required to be captured in the Project Schedule and worked around as necessary to accommodate the events and assure

that efforts are made to accommodate the events. Potential events in and around the project area, based on past years, include but are not limited to:

- Children Friend and Service Walk (Saturday in May, Roger Williams Park)
- Haitian Flag Day (Sunday in May, Roger Williams Park)
- Aids Walk (Saturday in June, Roger Williams Park)
- Lung Force Walk (Saturday in June, Roger Williams Park)
- Dominican Festival (Sunday in August, Roger Williams Park)
- Pops in the Park (Wednesday in August, Roger Williams Park)
- Central American Festival (Sunday in September, Roger Williams Park)
- Latimer 5K Race (Weekend in September, Roger Williams Park)
- Alzheimer's Walk (Sunday in October, Roger Williams Park)
- Nigerian Parade (Saturday in October, Broad Street)
- Day of the Dead Procession (In November, Broad Street)

2.9 Contractor is employed as an independent contractor to perform the Contract Work and is responsible to provide all tools, equipment and incidentals required to complete the Work.

2.10 Contractor has examined the Project Site and has acquainted themselves with local conditions, including readable availability of a project management Team, labor, subcontractors, equipment and materials.

2.11 Based on the Contractors examination of the Project Site, the Contractor accepts all open and obvious conditions at the Project Site visible upon reasonable inspection as of the date of this Agreement. No allowances will be made after the date of this Agreement for any oversight, error or omission by Contractor in assessing the Project Site with respect to the Scope of Work to be performed and the Agreement Price for conditions falling within these parameters.

3. PERFORMANCE AND WARRANTY

3.1 Time is of the essence.

3.2 Contractor shall cooperate with Owner in scheduling and performing the Contract Work to avoid conflict, delay in or interference with any separate work of the Owner or other engineers or contractors. Performance requirements may be included in task order, to be agreed to by the City and Contractor.

3.3 At Owner's request, Contractor shall promptly provide Owner with proof of the ordering of all materials, equipment and supplies required for complete performance of the Contract Work.

3.4 Within Ten (10) Calendar Days, the Contractor shall promptly provide Owner with a schedule of work to be performed which shall be considered a living schedule and update a minimum of every two (2) weeks. Failure to submit and update may result in rescinding work and/or withholding of payment.

3.5 Contractor shall use only new material for the Contract Work. Contractor shall remove and replace promptly, at Contractor's own expense, all defective or nonconforming work or materials. Contractor shall promptly report to Owner, in writing, any errors, inconsistencies or omissions relating to the Contract Work and any errors, inconsistencies or omissions in the Drawings and Specifications. Contractor may use salvaged materials with the approval of the Owner provided environmental test reports are provided to assure they are not contaminated. Test reports shall be provided in advance of materials being brought to the site.

3.6 Contractor shall complete each aspect of the Contract Work in strict accordance with the standards set forth in this Agreement and the other Contract Documents. Notice to proceed will be issued upon the Contractor's furnishing of insurance, bond, and execution of this Agreement. Contractor shall begin the work no earlier than September 18, 2021, no later than

September 23, 2021, and must substantially complete work by June 1, 2022 and fully complete work by June 30, 2022 unless otherwise stipulated in the task order. The Completion Date may be changed only by a written Change Order signed by the Contractor and Owner. Contractor's failure to perform and timely complete each aspect of the Contract Work, excluding delays caused by Owner or third party persons who are not under Contractor's control, in strict accordance with the Contract Documents, or delay of any work by other engineers, contractors or Owner caused by Contractor, constitutes a material breach of this Agreement, and Contractor shall be responsible for all additional costs incurred by Owner or other engineers or contractors, including overhead, profit, attorneys' fees and litigation expenses resulting from any such breach.

- 3.7 If Contractor, by its own fault or omission, fails to diligently pursue completion of the Contract Work, overtime work may be required by Contractor without additional compensation from Owner.
- 3.8 In certain situations, Contractor may be required by Owner to work overtime and, if Contractor is not in default under the Agreement, Contractor shall be paid additional compensation as agreed to in writing prior to performance of the overtime work. Owner must approve in advance and in writing all overtime work for which Contractor seeks additional compensation and such overtime work will be addressed in a Change Order.

The Contractor shall provide Schedule of Rates for all Labor and Equipment as part of the Bid for the project. This rate table will be used for adjustments in costs in the event they are required.

The rate Schedule will be reviewed during Bid Review process for fairness and will be part of the review for the De-Scope Meeting.

- 3.9 Contractor agrees to keep Owner informed both verbally and in writing as to the progress of the Contract Work and shall perform the Contract Work faithfully and in such order as necessary to keep the overall Project on schedule and to avoid any delay in completion of the Project. Failure to updated project schedule may result in rescinding work and/or withholding of payment.
- 3.10 Contractor shall provide safe and proper facilities for inspection at all times during performance of the Contract Work including preparing and maintaining a **Safety Plan to be submitted prior to the start of Work.**
- 3.11 Contractor warrants that the Contract Work shall (i) be free of defects in material and workmanship for a period of Two (2) years except where prescribed to be for a longer period; (ii) comply with the Drawings and the Specifications or as otherwise agreed to by the Parties; (iii) be performed in safe and workmanlike manner by trained, qualified, and efficient workers, in strict conformity with construction best practices; and (iv) be constructed of new materials of the most suitable grade for the application, and furnish satisfactory evidence to Owner of the type and quality of materials so furnished and used. In the event that the Contract Work fails to meet any of the aforementioned warranties, Contractor shall have the right to cure any nonconforming or defective Work and may replace the defective Contract Work, or reimburse Owner for the Contract Work at the invoice or market price, within thirty (30) days after discovery of the breach of warranty. Contractor shall also, at its cost, remove all material, equipment, and Contract Work which does not comply with the Drawings or meet the Specifications, or is otherwise defective, whether incorporated in the Project or not, and shall re-execute the Contract Work and correct any other work damaged thereby. If Contractor does not remove nonconforming or defective Contract Work promptly, Owner may do so and restore such nonconforming Contract Work at Contractor's expense.
- 3.12 Contractor shall reimburse Owner for all reasonable costs and expenditures made in the settlement of any claim against Owner relating to nonconforming or defective Contract Work.

- 3.13 Neither acceptance of the Contract Work nor payment of some or all of the Agreement Price shall relieve Contractor of responsibility for faulty materials, equipment or workmanship. Contractor shall remedy, as soon as possible, defects appearing within two (2) years from the date of final payment, or within such longer period of time as provided by any manufacturer's warranty, and correct resulting damage to other work at no cost to Owner.

4. ASSIGNMENT

- 4.1 Contractor shall not assign or sublet the whole or any part of this Agreement or any funds accrued or to accrue under this Agreement without the prior written consent of Owner; any assignment or sublet without prior written consent of Owner shall be voidable at the election of Owner. Owner retains the right to refuse any and all assignments or subletting in Owner's sole and absolute discretion. Any attempt to assign this Agreement in whole or in part without Owner's prior written consent constitutes a material breach of this Agreement.

5. CHANGES AND DELAYS

- 5.1 Contractor shall not deviate from the Contract Documents except on written order of Owner, received by Contractor before beginning any deviation.
- 5.2 Owner may make written changes in the Contract Documents which may add to or deduct from the Contract Work without invalidating this Agreement. All work outside the scope of the Contract Work to which Contractor is directed to perform by Owner or Owner's authorized representative without an agreement as to the price for the work shall be preserved and resolved through the dispute resolution clause in Section 14 of this Agreement.
- 5.3 Unless a written Construction Change Directive has been issued to Contractor by Owner directing that certain work be performed prior to agreement on extra compensation and/or time or in the event of a dispute as to whether the work is within the original Scope of Work, no extra compensation for extra work, materials or any time extension shall be allowed unless a written Change Order has been signed by Owner, nor shall Contractor proceed with extra work without a written Change Order signed by Owner. Compensation for any work added by a Change Order shall be in accordance with unit prices, applicable add/alternate prices, a lump sum price, or with the prior approval of Owner, shall be performed on a time and material basis with a detailed account of labor and material costs associated with the work.
- 5.4 Recovery by Contractor for delays caused by Owner shall be limited to time extensions only as set forth in an executed Change Order. Contractor shall not be entitled to damages or compensation for any losses on account of delay from any cause whatsoever, including, but not limited to, any act, neglect, omission, default or failure of performance by Owner or separate contractors, failure to obtain required materials, delay in obtaining permits, or other conditions.
- 5.5 If materials are not delivered promptly, Owner may expedite or substitute delivery of material to be supplied by Contractor and back charge Contractor for any costs incurred.

6. PROTECTION OF THE WORK AND EMPLOYEES; SUPERVISION AT THE PROJECT SITE

- 6.1 Until the Contract Work is complete, Contractor shall effectively secure and protect the Contract Work and shall repair and/or replace all loss or damage to the Contract Work caused by the Contractor or anyone for whom Contractor is responsible.
- 6.2 Following completion of the Contract Work, Contractor shall be bound by the warranty obligations of Contractor and its subcontractors and suppliers.
- 6.3 Contractor shall at all times supply a sufficient number of skilled workers to perform the Contract Work in a timely and efficient manner. In addition, Contractor shall assign a competent person who shall supervise the performance of the Contract Work, be present at the Project

Site at all times when Contract Work is being performed, and act as Contractor's representative at the Project Site for the purposes of coordinating Contractor's activities with those of the Owner and others at the Project Site.

7. BREACH AND REMEDIES

- 7.1 Contractor shall be deemed to be in material breach of this Agreement if Contractor: (i) fails to perform the Contract Work in strict accordance with the Contract Documents or task order; (ii) fails to provide competent supervision or a sufficient number of properly skilled workers; (iii) fails to supply sufficient material or equipment of proper quality; (iv) fails to correct nonconforming or defective work promptly; (v) fails to perform any terms of this Agreement; (vi) is unable to meet its debts or fails to pay promptly for labor, material or other obligations; (vii) becomes financially insecure; (viii) disregards any law, including, without limitation, the Environmental Laws (as defined in Section 8.5), rules, regulations or ordinances applicable to the Contract Work; (ix) by negligent act or omission causes delay or interference with Owner or separate contractors; (x) assigns this Agreement for any reason without the prior written consent of Owner; or (xi) performs or fails to perform any act the commission or omission of which is defined elsewhere in the Contract Documents as a material breach of this Agreement or which would constitute a material breach at common law.
- 7.2 In the event of Contractor's breach, Owner shall have the following remedies in addition to any other remedies available at law or in equity:
- 7.2.1 Upon five (5) days' written notice to Contractor, Owner may declare Contractor in breach of this Agreement subject to the Contractor's right to cure, and after such time, the Owner may (i) terminate the Agreement; (ii) after termination, employ one or more other contractors to complete the Contract Work; (iii) complete the Contract Work with its own forces; or (iv) employ some combination of the foregoing to complete the Contract Work. Upon Contractor's breach, Contractor shall assign all material, equipment, tools, services, and supplies, and all of Contractor's agreements and supply contracts to Owner for the purpose of assisting Owner's completion of the Contract Work by any of the foregoing means. Equipment and tools left on the Project Site subject to a security or rental agreement shall be returned to Contractor. Equipment or tools owned outright by Contractor left on the Project Site may be assigned to Owner upon the termination of this Agreement resulting from Contractor's breach of the Contract Documents for use to complete the Project.
- 7.2.2 Contractor shall remain liable to Owner for all costs incurred by Contractor in completing the Contract Work caused by Contractor's breach of the terms of this Agreement.
- 7.3 If Contractor breaches this Agreement, Contractor shall not be entitled to any further payments for Contract Work not completed until the Contract Work has been completed and accepted by Owner and all above-described expenses have been paid by Contractor to Owner. Contractor shall be liable to Owner for all costs of completion of the Contract Work that exceed the balance due under this Agreement, and Contractor shall promptly pay all valid amounts owed to Owner upon demand.
- 7.4 The Owner will be in breach of this Agreement and in default if any of the following events occur:
- 7.4.1 Owner fails or refuses to pay on time (generally within 60 days of acceptance of Payment Application) any monies due under the Contract Documents;
- 7.4.2 Owner fails or refuses to perform any obligation required under the Contract Documents;
- 7.4.3 Owner makes any assignment for the benefit of creditors or files any petition under any bankruptcy or debtor-relief law.

8. INDEMNITY

- 8.1 To the fullest extent permitted by law, Contractor shall indemnify, defend and hold harmless Owner, its respective employees, agents, officers, directors and representatives (collectively, the "Indemnified Parties") from, for, of, and against any and all claims, damages, losses, liabilities, demands, costs and expenses, including but not limited to attorneys' fees and litigation expenses arising out of or resulting from, in whole or in part, the performance of the Contract Work, or which are caused, in whole or in part, by any negligent act or omission of the Contractor, or by any of Contractor's subcontractors or suppliers, or anyone directly or indirectly employed by them. Excluded from this indemnity section is any claim attributable to the conduct and actions of the Owner or arising out of any non-delegable duty owed by the Owner.
- 8.2 To the fullest extent permitted by law, Owner shall indemnify and hold harmless Contractor and its agents, officers, directors and employees from, for, of, and against any and all claims, damages, losses, liabilities, demands, costs and expenses, including but not limited to attorneys' fees and litigation expenses attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property which are caused, in whole, by any negligent act or omission of Owner, or any of Owner's separate contractors, or anyone directly or indirectly employed by them.
- 8.3 Such obligations shall not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity which would otherwise exist as to any party or person described in this section.

9. INSURANCE

- 9.1 Contractor shall purchase and maintain the following insurance for limits in amounts no less than set forth below:
- 9.1.1 GENERAL LIABILITY INSURANCE – PROPERTY DAMAGE AND BODILY INJURY: One Million Dollars (\$1,000,000) per Occurrence; Two Million Dollars (\$2,000,000) Aggregate Limit.
- 9.1.2 OWNED, HIRED AND NON-OWNED AUTOMOBILE LIABILITY INSURANCE: for Bodily Injury, Wrongful Death and Property Damage; One Million Dollars (\$1,000,000) per Occurrence; Two Million Dollars (\$2,000,000) Aggregate.
- 9.1.3 WORKERS COMPENSATION AND OCCUPATIONAL DISEASE: including Employer's Liability-Statutory Limit, such Employer's Liability limits for bodily injury by accident or disease to not be less than Five Hundred Thousand Dollars (\$500,000) each accident, Five Hundred Thousand Dollars (\$500,000) each employee and Five Hundred Thousand Dollars (\$500,000) policy limit.
- 9.1.4 UMBRELLA LIABILITY INSURANCE: Five Million Dollars (\$5,000,000) per Occurrence; Five Million Dollars (\$5,000,000) Aggregate.
- 9.1.5 POLLUTION LIABILITY INSURANCE: Two Million Dollars (\$2,000,000) policy limit.
- 9.2 All required insurance coverages listed above shall be written on an occurrence-basis, and shall be maintained continuously, without interruption, from the date of commencement of this Agreement until the completion of the Contract Work or the date of final payment for the Contract Work, whichever occurs later.
- 9.3 Certificates of insurance acceptable to Owner shall be submitted to Owner before commencement of the Contract Work. The certificates of insurance and the insurance policies required above shall include a provision stating that the insurance coverage under each policy

shall not be cancelled or otherwise allowed to expire until at least thirty (30) days' advance notice has been given directly to Owner by the insurance company or companies.

9.4 The insurance policies required for general liability coverages, owned, hired and non-owned automobile liability coverage shall include Owner (City of Providence and the Providence Public Building Authority) as an additional insured and shall provide that these insurance coverages are primary and non-contributory in the event any additional insured is insured for the same coverages under another insurance policy or policies. Contractor shall provide copies of the endorsements from the carrier showing that these entities have been added as additional insured.

9.5 Nothing in the provisions of this Section shall modify, alter or otherwise affect the indemnity obligations of Contractor under Section 8 of this Agreement.

10. SAFETY

10.1 At its own expense and at all times, Contractor shall take all necessary precautions to protect persons and property at or adjacent to the Project Site from damage, loss, or injury resulting from performance of the Contract Work by the Contractor, its employees, subcontractors and others for whom Contractor is responsible.

10.2 If any accident occurs, person is injured, or property is damaged at or near the Project Site resulting from the performance of the Contract Work by Contractor, its employees, subcontractors or others for whom Contractor is responsible, Contractor shall immediately notify Owner both verbally and in writing.

10.3 Contractor shall maintain a safety program that complies with all applicable laws and shall comply with all specific safety requirements promulgated by any applicable governmental authority and the City of Providence, including without limitation, the requirements of the Occupational Safety and Health Act ("OSHA"). Copies of the program shall be furnished to the Owner upon request.

10.4 The Contractor shall submit a Life and Safety Plan prior to the execution of the Work including the Contractors COVID-19 Plan.

11. COMPLIANCE WITH LAWS

11.1 Contractor shall comply with all applicable federal, state, and local laws, codes, regulations and ordinances, including, but not limited to, the Fair Labor Standards Act, OSHA, workers compensation, social security, employment and wage and hour laws.

11.2 Contractor shall not discriminate in the employment or advancement of any employee or applicant because of race, national origin, sex, color, age, religion, creed, physical handicap, Veteran's status or any protected class.

11.3 Contractor shall maintain all records and accounts for the employment of labor and the furnishing of materials and supplies in accordance with proper accounting and record keeping procedures and with all federal, state, and local laws, codes, regulations and ordinances. Copies of such records shall be provided to Owner upon request.

12. PAYMENTS

12.1 For the satisfactory performance and timely completion of the Contract Work, Owner shall pay Contractor the Agreement Price, subject to additions and deductions as herein provided. Payment will be less the aggregate of previous payments.

- 12.2 As a condition precedent to Contractor's right to payment, Contractor shall submit to Owner pay applications in AIA format in MS Excel Format not locked based on an Owner Approved Schedule of Values containing the following, and no pay applications will be accepted or processed for payment without the following:
- 12.2.1 Project Site name and address;
 - 12.2.2 Date of the Contract Work;
 - 12.2.3 CIP Number and Name
 - 12.2.4 Milestone of Project Completion or line item percent complete in Schedule of Values.
 - 12.2.5 MBE/WBE Utilization form
 - 12.2.6 Apprenticeship utilization reports
 - 12.2.7 Certified Payrolls
 - 12.2.8 Partial Lien Releases
 - 12.2.9 Cost Loaded Progress Schedule
 - 12.2.10 Digital Progress Photos (Labeled)
 - 12.2.11 Real time Punch List Items Addressed
- 12.3 Pencil pay applications shall be submitted digitally (unlocked MS Excel Format) to Owner on a thirty (30) day billing cycle, by. Owner shall have fourteen (14) days from receipt of a properly documented pay application to approve and certify the pay application. Owner shall review each line item independently and base payment approval on each line item. In no case shall a disputed line item constitute a rejection of an entire pay application. In the case of a disputed line item(s), payment shall be made for all other line items and disputed line item(s) shall be settled in accordance with Section 14. Owner shall generally issue payment within 60 days after the pay application is approved and certified.
- 12.4 Payment shall not be considered approval or acceptance of Contract Work or materials that do not comply with the Contract Documents.
- 12.5 Retainage in the amount of 5% will be withheld by the Owner until final completion and acceptance of the project. If the Contractor is from out of state, the 5% retainage shall be increased to 8%.
- 12.6 If labor, materials or other charges relating to the Contract Work are not being paid by Contractor when due, Owner may take all steps necessary to ensure such payments are made, including paying Contractor's bills directly, and charge such payments to Contractor.
- 12.7 Owner may reduce or delay payment to Contractor for any and all of the following reasons: (i) unsatisfactory job progress; (ii) defective work or materials not remedied; (iii) disputed work; (iv) failure of Contractor to comply with the provisions of this Agreement; (v) legitimate and non-frivolous third party claims filed or reasonable evidence that a legitimate and non- frivolous claim will be filed; (vi) failure of Contractor to make timely payments for labor, equipment and materials; (vii) damage to Owner or a separate contractor; (viii) reasonable evidence that the Agreement cannot be completed for the unpaid balance of the Agreement Price, (ix) failure to submit apprenticeship utilization reports, MBE/WBE utilization reports or

updated construction schedule, or (x) punch lists not being addressed as project proceed (Real Time).

12.8 If Contractor's materialmen, suppliers, or subcontractors file a lien or other claim, or attempt to exercise any right or remedy against Owner, Owner's interest in the Project Site, or the Project Site, Contractor shall immediately remove the lien or other claim, by payment, bond, or otherwise. If Contractor fails to act on the notice of lien or claim as outlined above within thirty (30) days, the Owner may, in addition to its right to declare a material breach of this Agreement and exercise all rights and remedies, take whatever acts are necessary to remove the lien or resolve such claims and charge Contractor for the costs incurred.

12.9 Final payment to Contractor is conditioned upon and subject to the approval of the Contract Work by Owner. As a condition of final payment, Contractor shall provide to Owner "as built" drawings of the finished Project and all warranties, operating instructions and manuals and an agreement to hold Owner harmless from all claims, all in forms acceptable to Owner. Contractor also shall provide to Owner a lien waiver for labor and materials furnished by Contractor, its subcontractors and suppliers and from all lower tier subcontractors and suppliers who have served preliminary lien notices on Owner or Contractor. The Contractor shall provide consent of the Surety Company as well.

Acceptance of final payment shall act as a waiver and release of any and all claims by Contractor, except unknown claims for personal injury or property damage caused by Owner.

12.10 Final payment by the Owner shall in no way relieve the Contractor for liability for its obligations to repair or replace faulty or defective Contract Work discovered after final payment. All such defenses Contractor may have to such claims are preserved.

13. RIGHTS AND REMEDIES

13.1 Duties and obligations imposed by this Agreement and rights and remedies available hereunder shall be in addition to and not a limitation of duties, obligations, rights and remedies otherwise imposed or available at law or in equity.

14. DISPUTES

14.1 Disputes to be resolved in accordance with the Rhode Island General Law Tittle 37, Chapter 37-16.

14.2 All claims, disputes, and other matters in question arising out of or relating to this contract or the performance or interpretation thereof shall be submitted to arbitration. Arbitration shall be commenced by a demand in writing made by one party to the contract upon the other within a reasonable time after the dispute, claim, or other matter in question arose but in no event after payment in full of the contract price has been made and accepted. The written demand shall contain a statement of the question to be arbitrated and a detailed statement of each item or matter in dispute and the name of the arbitrator appointed by that party. The other party to the contract within ten (10) days of the receipt of the written demand shall appoint an arbitrator and give notice in writing thereof to the party who commenced arbitration. The two (2) arbitrators appointed by the parties shall within ten (10) days of the date of the appointment of the second arbitrator select a third arbitrator who shall be designated as chairperson and who immediately shall give written notice to the parties of his or her appointment. The third arbitrator shall select a time, date, and place for hearing and give each party five (5) days' notice in writing thereof. The date for hearing shall not be more than fifteen (15) days after the date of appointment of the third arbitrator. The award shall be made promptly by the arbitrators and, unless otherwise agreed by the parties or specified by law, no later than thirty (30) days from the date of closing the hearing, or, if oral hearings have been waived, from the date of the transmittal of the final statements and proofs to the arbitrators. The award shall be in writing and shall be signed by a majority of the arbitrators. It shall be executed in the manner required by law. The arbitrator

shall provide a written explanation of the reasoning for the award. In the event the party of whom arbitration is demanded shall fail to appoint his or her arbitrator within the time specified or the two (2) arbitrators appointed by the parties are unable to agree on an appointment of the third arbitrator within the time specified, either party may petition the presiding justice of the superior court to appoint a single arbitrator who shall hear the parties and make an award as provided herein. The petitioner shall give five (5) days' notice in writing to the other party before filing his or her petition.

15. GOVERNING LAW

15.1 This Agreement shall be governed by and construed under the laws of the State of Rhode Island, without regard to its conflicts of law principles.

16. ALL CHANGES TO AGREEMENT SHALL BE IN WRITING

16.1 This Agreement shall not be changed except by written agreement of Owner and Contractor.

17. LEGAL EFFECT

17.1 In the event any provision contained herein is found to be legally unenforceable, all other provisions of this Agreement shall remain in full force and effect as if the unenforceable provision was never made a part of this Agreement.

18. INTERPRETATION

18.1 This Agreement is the result of negotiations between the parties and, accordingly, shall not be construed for or against either party regardless of which party drafted this Agreement or any portion thereof.

19. NO PARTNERSHIP

19.1 Nothing contained herein shall, or shall be deemed to, create any relationship between the Parties other than that of Owner and Contractor.

20. FURTHER DOCUMENTS

20.1 The Parties shall execute and deliver all such documents and perform all such acts as reasonably requested by the other party from time to time, to carry out the matters contemplated by this Agreement.

21. RECORD KEEPING, AUDIT AND INSPECTION

21.1 Contractor shall retain all books and records pertaining to the provision of the Contract Work for a period of no less than five (5) years after completion of all Contract Work or the termination of this Agreement, whichever occurs earlier and shall, during such time, shall permit Owner and its designated representative(s) to audit, inspect and make copies of all such books and records so maintained by Contractor. Any such audit and inspection shall take place during normal business hours upon reasonable prior notice to Contractor. The right to audit and inspect shall survive the termination of the Agreement.

22. NOTICE

22.1 All notices to either party pursuant to this Agreement shall be in writing and signed by a duly authorized representative of the party giving such notice and shall be served either in person, by overnight delivery service or by certified mail, return receipt requested, to the respective address for each party given in the Agreement.

23. AUTHORITY

21.1 The individuals executing this Agreement on behalf of the parties represent they are duly authorized to sign on behalf of the parties and bind the Parties hereto.

24. COUNTERPARTS

21.1 This Agreement may be signed in counterparts.

25. NOTICES

25.1 No notice, consent, approval or other communication given in connection herewith shall be validly given, made, delivered or served unless in writing and delivered by hand, email, or by registered/certified United States mail to Owner or Contractor, as the case may be. Correspondence shall be delivered to the respective mailing and/or email addresses set forth below, or to such other addresses as either party may from time to time designate in writing and deliver to the other party. Notices, consents, approval or communications shall be deemed given or received 24 hours after deposit in the mail, or immediately if hand-delivered or sent by email transmission. All written correspondence shall be followed by a telephone call within 24 hours of sending to confirm that it was received by the other party.

If to Owner:

Martina Haggerty, Director of Special Projects
Department of Planning and Development
444 Westminster Street
Providence, RI 02903
401-680-8400
mhaggerty@providenceri.gov

If to PBBA:

William Marchetti, Jr.
Providence Public Buildings Authority
50 South Main Street, Suite 102
Providence, RI 02903
401-228-3611
bill@wemconsulting.com

If to Contractor:

[Contractor Info]

[SIGNATURES APPEAR ON FOLLOWING PAGES]

NOW, THEREFORE, the Parties execute this Agreement on the day and date listed in the Preamble.

PROVIDENCE PUBLIC BUILDING AUTHORITY

By: _____
Stanley Weiss, Chairman

Date: _____

CITY OF PROVIDENCE DEPARTMENT OF PLANNING
AND DEVELOPMENT

By: _____
Bonnie Nickerson, Director

Date: _____

[FIRM NAME]

By: _____

Name (Printed): _____

Title: _____

Date: _____

Approved as to form and correctness:

By: _____
Jeffrey Dana
City Solicitor

GENERAL CONDITIONS, PART I

Broad Street Improvements

PROVIDENCE, RHODE ISLAND

101. BRIEF SCOPE OF WORK

R.I. Federal Aid Project No. 405-421-868 and R.I. Contract No. 2018-EC-001 are for Broad Street Improvements. The work to be performed under this Contract includes, but is not limited to, all labor, material and equipment necessary to construct sidewalk and roadway improvements on Broad Street between Elmwood Avenue and Hawthorne Avenue in the City of Providence, RI. Included in the work is the installation of new concrete sidewalk, curb ramps, and detectable warning systems; installation of floating bus stops; removal and disposal of existing signs and installation of new signs; installation of pavement markings; traffic signal modifications; and all other incidentals necessary to execute the work complete in place and accepted within the limits of this contract to the satisfaction of the Engineer.

City of Providence Capital Improvement Program funds are for the resurfacing of Broad Street, within the limits noted above, as an add-alternate to the Broad Street Improvements project. The work associated with the add-alternate infrastructure improvements includes, but is not limited to, the resurfacing of Broad Street and the installation of new curb ramps and all other incidentals necessary to execute the work complete in place and accepted within the limits of the add-alternate to the satisfaction of the Engineer.

102. DEFINITIONS

Whenever used in any of the Contract Documents, the following meanings shall be given to the terms defined:

- A. The term "Contract" means the Contract executed by the Owner and the Contractor, of which these GENERAL CONDITIONS PART I and II and III form a part.
- B. The term "Owner" means the **CITY OF PROVIDENCE, THE CITY OF PROVIDENCE DEPARTMENT OF PLANNING AND DEVELOPMENT (DPD)** and the **PROVIDENCE PUBLIC BUILDING AUTHORITY (PPBA)** which is authorized to undertake this Contract.
- C. The term "Contractor" means the person, firm or corporation entering into the Contract with the Owner to construct and install the improvements embraced in this Contract.
- D. The term "Project Area" means the site of the **Broad Street Improvements** within the City of Providence which are the specified Contract limits of the improvements contemplated to be constructed in whole or in part under this Contract. The Project Area shall be considered the City of Providence boundaries.

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- E. The term "Design Engineer" means **MCMAHON ASSOCIATES, 14 BREAKNECK HILL ROAD, SUITE 201, LINCOLN, RI 20865, Tel. (401) 648-7200**. The term "Engineer" means any qualified person or persons, employed by the Local Public Agency for the purpose of directing or having in charge the work of Site Improvements embraced in this Contract, the said Engineer acting directly or indirectly through any Assistant Engineer having general charge of the work or through any assistant having immediate charge of a portion thereof limited by the particular duties entrusted to him.
 - F. The Design Engineer does not have unilateral authority and the Owner and the Design Engineer shall work collaboratively on all matters related to this Work.
 - G. The term "Local Government" means the City of Providence, Rhode Island, within which the Project Area is situated.
 - H. The term "Contract Documents" means and shall include the following: Executed Agreement, Addenda (if any), Invitation for Bids, Instructions to Bidders, Signed Copy of Bid, General Conditions Parts I and III, Special Conditions, Technical Specifications, and Drawings (as listed in the Schedule of Drawings).
 - I. The term "Drawings" means the drawings listed in the Schedule of Drawings.
 - J. The term "Technical Specifications" means that part of the Contract Documents which describes, outlines and stipulates: the quality of the materials to be furnished; the quality of workmanship required; and the methods to be used in carrying out the construction work to be performed under this Contract.
 - K. The term "Addendum" or "Addenda" means any changes, revisions or clarifications of the Contract Documents which have been duly issued by the Owner to prospective Bidders prior to the time of receiving Bids.
 - L. Wherever in the specifications or upon the contract drawings the words directed, required, permitted, ordered instructed, designated, considered necessary, or words of like import are used, it shall be understood that the direction, requirement, permission, order, instructions, designation or decision of the Engineer is intended; where as shown, as indicated, as detailed or words of similar import are used, it shall be understood that reference to the drawings accompanying these specifications is made unless otherwise stated; and similarly the words approved, acceptable, satisfactory, or words of like import shall mean approved by, or acceptable, or satisfactory to the Engineer. As used herein "provided" shall be understood to mean "provided complete in place", that is "furnished and installed complete".

103. SUPERINTENDENCE BY CONTRACTOR

- A. Except where the Contractor is an individual and gives his personal superintendence to the work, the Contractor shall provide a competent Superintendent and/or Project Manager, dedicated to the project and satisfactory to the Owner and the Engineer, on the work at all times during working hours with full authority to act on behalf of the Contractor. The Contractor shall also provide an adequate staff for the proper coordination and expediting of his work.
- B. The Contractor shall lay out their own work and shall be responsible for all work executed under the Contract. The Contractor shall verify all figures and elevations before proceeding with the work and will be held responsible for any error resulting from failure to do so.

104. SUBCONTRACTS

- A. The Contractor shall not execute an agreement with any Subcontractor or permit any Subcontractor to perform any work included in this contract until they have submitted a non-collusion affidavit from the Subcontractor and have received written approval of such Subcontractor from the Owner. (See Non-Collusion Affidavit for Subcontractor in Bidding Documents section)
- B. No proposed Subcontractor shall be disapproved by the Owner except for cause.
- C. The Contractor shall be as fully responsible to the Owner for the acts and omissions of his Subcontractors, and of persons either directly or indirectly employed by them as they are for the acts and omissions of persons directly employed by them.
- D. The Contractor shall cause appropriate provision to be inserted in all subcontracts relative to the work to require compliance by each Subcontractor with the applicable provisions of the Contract for the improvements embraced in the Site Preparation.
- E. Nothing contained in the Contract shall create any contractual relation between any Subcontractor and the Owner.
- F. The Contractor shall have full control over their Subcontractors to deliver the project and/or elements of the project allowing the Contractor to perform the work timely. The Contractor shall not permit any Subcontractor from holding up the project due to unavailability or not wanting to perform small sections of Work. If a Subcontractor is not able to perform work in a timely manner, the Contractor shall replace them with a replacement Subcontractor approved by the Owner.
- G. The Contractor shall provide complete sets of items, such as, but not limited to, Contracts, Specifications, Drawings, Sketches and other applicable documents for both office and field use.

105. OTHER CONTRACTS

The Owner may award, or may have awarded, other contracts for additional work, and the Contractor shall cooperate fully with such other Contractor, by scheduling his own work with that to be performed under other Contracts as may be directed by the Owner. The Contractor shall not commit or permit any act, which will interfere with the performance of work by any other Contractor as scheduled.

106. FITTING AND COORDINATION OF THE WORK

The Contractor shall be fully responsible for the proper fitting of all work and for the coordination of the operations of all trades, Subcontractors, or materialmen engaged upon this Contract. The Contractor shall be prepared to guarantee to each of their Subcontractors the locations and measurements which they may require for the fitting of their work to all surrounding work.

107. MUTUAL RESPONSIBILITY OF CONTRACTORS

If, through acts or neglect on the part of the Contractor, any other Contractor or any Subcontractor shall suffer loss or damage on the work, the Contractor shall settle with such other Contractor or Subcontractor by agreement or arbitration, if such other Contractor or Subcontractor will so settle. If such other Contractor or Subcontractor shall assert any claim against the Owner on account of any damage alleged to have been so sustained, the Owner will notify this Contractor, who shall defend at his own expense any suit based upon such claim, and, if any judgment or claims against the Owner shall be allowed, the Contractor shall pay or satisfy such judgment or claim and pay all costs and expenses in connections therewith.

108. PROGRESS SCHEDULE

The Contractor shall submit for approval immediately after execution of the Agreement, a carefully prepared Cost Loaded Progress Schedule (in PDF and Native Format), showing the proposed dates of starting and completing each of the various sections of the work, the anticipated monthly payments to become due the Contractor, and the accumulated percent of progress every two weeks. Every two weeks, the Contractor shall update and submit the progress schedules for review by the Owner. Failure to maintain the progress schedule will be cause to withhold payments due to the Contractor.

109. COMPENSATION AND PAYMENTS TO CONTRACTOR**A. Compensation:**

1. The Owner will pay and the Contractor shall receive as full compensation for all work completed to date.
2. Unit prices shall be based on a schedule dividing the project into component parts, together with a quantity and price for each part such that the sum of the product prices and quantities will equal the Base Bid total. A final schedule shall be submitted by the Contractor for the approval of the Owner before the first estimate becomes due. A Schedule of Values shall be provided for the length of the project. Please be reminded, without this, the Contractor shall not be paid for materials in storage.
3. When base bid quantities are exceeded, they shall be added to the Schedule of Values as a new line item. The Contractor, Design Engineer, and the Owner all shall monitor overages versus those items coming in lower than estimated to assure that the budget health is not compromised.
4. The amount of the Contract (accepted bid prices) listed in the Bid is based on the estimated quantities and the unit and/or lump sum bid prices as set forth in the Bid. Actual work may result in greater or lesser quantities estimated. It is understood and agreed that the Contractor will accept as payment the actual measured quantities at the unit and/or lump sum bid prices as set forth in the accepted bid and may be considered for an adjustment as prescribed in accordance with the terms outlined in Section 109 hereof.
5. The estimated quantities given in the Bid (proposal) for the various items of work are given for the purpose of comparing proposals offered for the work under this contract and if it is found in the performance of the contract work that any or all of the said estimated quantities are not even approximately correct, the Contractor shall have no claim for anticipated profits, or for loss of profits or for increase in prices as listed in the accepted Bid because of the difference between the quantities of the various items of work actually done and the estimated quantities stated in the accepted Bid (proposal) except as provided for in Section 109 hereof.
6. It is understood that, except as otherwise specifically stated in the contract documents, the Contractor shall provide and pay for all materials, labor, tools, equipment, water, light, power, transportation, superintendence, temporary construction of every nature, and all other

services and facilities of every nature whatsoever necessary to protect, execute, complete and deliver the work within the specified time.

7. Any work necessary to be performed after regular working hours, on Saturdays, Sundays and legal holidays, shall be performed by the Contractor without additional expense to the Owner.
8. Night work or work on Saturdays, Sundays and legal holidays shall be done only with the approval of the Providence Traffic Engineering Department.

B. Partial Payments:

1. The Contractor shall prepare his requisition for partial payment monthly, at a date to be specified by the Owner, and submit it digitally in a PDF and unlocked Excel document formats, to the Engineer for his approval. The amount of the payment due the Contractor shall be determined by adding to the total value of work completed to date, the value of materials properly stored on the site and deducting (1) five percent (5%) of the total amount, to be retained until final payment and (2) the amount of all previous payments. If the Contractor is from out of state, the five percent retainage shall be increased to eight percent (8%). The total value of work completed to date shall be based on the actual quantities of work completed and on the unit prices contained in the agreement. For lump sum items the value of the work completed to date will be based on the actual amount of the work done and the schedule required to be submitted by the Contractor in Section 108. The value of materials properly stored on the site shall be based upon the estimated quantities of such materials and the invoice prices. Copies of all invoices shall be available for inspection by the Engineer and Owner.
2. Monthly or partial payments made by the Owner to the Contractor are monies advanced for the purpose of assisting the Contractor to expedite the work of construction. The Contractor shall be responsible for the care and protection of all materials and work upon which payments have been made until final acceptance of such work and materials by the Owner. The Contractor shall obtain additional insurance for stockpiled materials on Broad Street. Such payments shall not constitute a waiver of the right of the Owner to require the fulfillment of all terms of the Contract and the delivery of all improvements embraced in this Contract complete and satisfactory to the Owner in all details.

THE OWNER, PRIOR TO MAKING EACH PAYMENT TO THE CONTRACTOR, shall require the Contractor to furnish releases or receipts from any or all persons / firms performing work and supplying material or services to the Contractor, or any Subcontractor, if this is deemed necessary to protect its interest. Additionally, the Contractor may be required to submit certified payrolls for any and all employees, including Subcontractors.

C. Final Payment:

1. After final inspection and acceptance by the Owner of all work under the Contract, the Contractor shall prepare his requisition for final payment which shall be based upon the carefully measured or computed quantity of each item of work at the applicable unit prices stipulated in the Agreement. The total amount of the final payment due the Contractor

under this contract shall be the amount computed as described above less all previous payments. Final payment to the Contractor shall be made subject to his furnishing the Owner with a release in satisfactory form of all claims against the Owner arising under and by virtue of his contract, other than such claims, if any as may be specifically excepted by the Contractor from the operation of the release as provided under Section 112 hereof.

2. The Contractor shall retain consent of surety. This shall be submitted at the time of the final Payment requisition.
3. The Owner, before paying the final estimate, may require the Contractor to furnish releases or receipts from all Subcontractors having performed any work and all persons having supplied materials, equipment (installed on the Project) and services to the Contractor, if the Owner deems the same necessary in order to protect its interest. The Owner, however, may if it deems such action advisable, make payment in part or in full to the Contractor without requiring the furnishing of such releases or receipts and any payments so made shall in nowise impair the obligations of any surety or sureties furnished under this Contract.
4. Withholding of any amount from the Owner under Section 303, entitled "Liquidated Damages", under SPECIAL CONDITIONS, shall be deducted from the final payment due the Contractor.

D. Withholding Payments:

1. The Owner may withhold from any payment otherwise due the Contractor so much as may be necessary to protect the Owner and if it so elects may also withhold any amounts due from the Contractor to any Subcontractors or material dealers, for work performed or material furnished by them. The foregoing provisions shall be construed solely for the benefit of the Owner and will not require the Owner to determine or adjust any claims or disputes between the Contractor and his Subcontractors or material dealers, or to withhold any monies for their protection unless the Owner elects to do so. The failure or refusal of the Owner to withhold any monies from the Contractor shall in nowise impair the obligations of any surety or sureties under any bond or bonds furnished under this Contract.
2. Certified Payroll
3. WBE and DBE
4. Liens Releases
5. Supporting information to review invoices
6. Incomplete Work
7. Not Addressing REAL TIME punch lists

E. Payments Subject to Submission of Materials Certificates and Materials Testing:

1. Each payment to the Contractor by the Owner shall be made subject to submission by the Contractor of all written certifications required of him and his Subcontractors. Materials and associated bid items found to be

deficient by the City's third-party testing agency will not be paid until defective materials have been replaced.

F. Payments Subject to Reporting Requirements:

1. Each payment to the Contractor by the Owner shall be made after satisfactory reporting is submitted for First Source, Apprenticeship Utilization, MBE/WBE utilization and any other reporting as stated at the pre-construction meeting. Payment to the Contractor by the Owner is also contingent upon receipt of updated and accurate project construction schedules.

G. Payments Subject to Certified Payroll Requirements:

1. Complete and executed certified payroll statements are required to be submitted with all invoice requests. Failure to do so will result in non-payment until certified payrolls are received.

H. Payments Subject to Progress Schedule

1. Each payment to the Contractor by the Owner shall be made subject to submission of a current, accurate and reasonable progress schedule. Failure to do so will result in non-payment until a progress schedule is received and accepted.

110. CHANGES IN THE WORK

- A. The Owner may make changes in the scope of the work required to be performed by the Contractor under the Contract or making additions thereto, or by omitting work therefrom, without invalidation of the Contract, and without relieving or releasing the Contractor from any of his obligations under the Contract or any guarantee given by him pursuant to the Contract provisions, and without affecting the validity of the guaranty bonds, and without relieving or releasing the surety or sureties of said bonds. All such work shall be executed under the terms of the original Contract unless it is expressly provided otherwise.
- B. Except for the purpose of affording protection against any emergency endangering health, life, limb or property, the Contractor shall make no change in the materials used or in the specified manner of constructing and/or installing the improvements or supply additional labor, services or materials beyond that actually required for the execution of the Contract, unless in pursuance of a written order from the Owner authorizing the Contractor to proceed with the change. No claim for an adjustment of the Contract Price will be valid unless so ordered.
- C. If applicable unit prices are contained in the Agreement (established as a result of either a unit price bid or a Supplemental Schedule of Unit Prices) the Owner may order the Contractor to proceed with desired changes in the work, the value of such changes to be determined by the measured quantities involved and the applicable unit prices specified in the Contract; provided that in case of a unit price contract the net value of all changes does not increase or decrease the original total amount shown in the Agreement by more than **twenty-five percent (25%)** in accordance with the Section entitled Unit Prices, Supplemental Unit Prices and Alternates under INSTRUCTIONS TO BIDDERS.
- D. If applicable unit prices are not contained in the Agreement or if the total net change increases or decreases the total Contract Price more than **twenty-five percent (25%)** the Owner shall, before ordering the Contractor to proceed with desired

changes, request an itemized proposal from him covering the work involved in the change after which the procedure shall be as follows:

1. If the proposal is acceptable, the Owner will prepare the change order in accordance with Paragraph E below for acceptance by the Contractor, and If the proposal is not acceptable and prompt agreement between the two parties cannot be reached, the Owner may order the Contractor to proceed with the work on a cost-plus-limited basis, defined as the net cost of the Contractor's labor, materials and insurance plus fifteen percent (15%) of said net cost to cover overhead and profit, the total cost not to exceed a specified limit.

E. Each change order shall include in its final form:

1. A detailed description of the change in the work.
2. The Contractor's proposal (if any) or a conformed copy thereof.
3. A definite statement as to the resulting change in the contract price and/or time.
4. The statement that all work involved in the change shall be performed in accordance with Contract requirements except as modified by the change order.

F. The Contractor shall be allowed a markup on any additional work not accounted for, as follows:

1. The Contractor shall consider a markup of cost of work plus general conditions at three percent (3%) plus overhead and profit at nine percent (9%).
2. The Subcontractor shall consider a markup of cost of work plus general conditions at three percent (3%) plus overhead and profit at nine percent (9%).
3. The Contractor's markup on Subcontractors shall be five percent (5%).
4. Labor and equipment rates shall be as provided as part of the original Bid document.

111. CLAIMS FOR EXTRA COST

- A. If the Contractor has any claims for additional cost or extension of time, they shall, within three days after the occurrence of the claim, and in any event before proceeding to execute the work, submit their claim in writing to the Owner, stating clearly in detail the basis of the claim. No such claim will be considered unless so made.
- B. Claims for additional compensation for extra work, due to alleged errors in ground elevations, contour lines, or bench marks, will not be recognized unless accompanied by certified survey data, made prior to the time the original ground was disturbed, clearly showing that errors exist which resulted, or would result, in handling more material, or performing more work, than would be reasonably estimated from the Drawings and maps issued.

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- C. Any discrepancies which may be discovered between actual conditions and those represented by the Drawings and maps shall at once be reported to the Owner and work shall not proceed except at the Contractor's risk, until written instructions have been received by him from the Owner.
 - D. If, on the basis of the available evidence, the Owner determines that an adjustment of the Contract Price and/or Time is justifiable, the procedure shall be as provided in Section 109 hereof.

112. TERMINATION, DELAYS, AND LIQUIDATED DAMAGES

- A. **Termination of Contract:** If the Contractor or any of his Subcontractors refuses or fails to prosecute the work with such diligence as will ensure its completion within the time specified in these Contract Documents, or as modified as provided in these Contract Drawings, or violates any other Provisions of this Contract, the Owner, by written notice to the Contractor, may terminate the Contractor's right to proceed with the work. Upon such termination, the Owner may take over the work and prosecute the same to completion, by contract or otherwise, and the Contractor and his sureties shall be liable to the Owner for any additional cost incurred by the Owner in its completion of the work and they shall also be liable to the Owner for liquidated damages for any delay in the completion of the work as provided below. If the Contractor's right to proceed is so terminated, the Owner may take possession of and utilize in completing the work such materials, tools, equipment, and plant as may be on the site of the work and necessary therefor.
- B. **Liquidated Damages for Delays:** If the work is not completed within the time stipulated in the SPECIAL CONDITIONS, Section 303, including any extensions of time for excusable delays as herein provided, the Contractor shall pay to the Owner as fixed, agreed, and liquidated damages for each calendar day of delay, until the work is completed, the amount as set forth in SPECIAL CONDITIONS, Section 303, and the Contractor and his sureties shall be liable to the Owner for the amount thereof.
- C. **Excusable Delays:** An excusable delay is defined as a delay to the Contract or Milestone/phase completion date which was unforeseeable and beyond the Contractor's control and not caused by the Contractor's fault or negligence and for which a Contract or Milestone time extension may be granted by the Owner. Excusable delays include the following:
 - 1. Acts of the Government, including controls or restrictions upon or requisitioning of materials, equipment, tools, or labor by reason of war, National Defense, or any other national emergency;
 - 2. Acts of the Owner;
 - 3. Causes not reasonably foreseeable by the parties to this Contract at the time of the execution of the Contract which are beyond the control and without the fault or negligence of the Contractor, including, but not restricted to acts of God or of the public enemy, acts of another Contractor in the performance of some other contract with the Owner, fires, floods, epidemics, pandemics, quarantine, restriction, strikes, freight embargoes, and weather of unusual severity such as hurricanes, tornadoes, cyclones, and other extreme weather conditions; and
 - 4. Any delay of any Subcontractor occasioned by any of the causes specified in subparagraphs (1), (2) and (3) of this paragraph "C". Provided, however, that the Contractor promptly notify the Owner within

three (3) days in writing of the cause of the delay. Upon receipt of such notification the Owner shall ascertain the facts and the cause and extent of delay. If, upon the basis of the facts and the terms of this contract, the delay is properly excusable, the Owner shall extend the time for completing the work for a period of time commensurate with the period of excusable delay.

113. ASSIGNMENT OR NOVATION

The Contractor shall not assign or transfer, whether by an assignment or novation, any of its rights, duties, benefits, obligations, liabilities, or responsibilities under this Contract without the written consent of the Owner's sole discretion.

114. DISPUTES

- A. Disputes to be resolved in accordance with the Rhode Island General Law Title 37, Chapter 37-16.
- B. All claims, disputes, and other matters in question arising out of or relating to this contract or the performance or interpretation thereof shall be submitted to arbitration. Arbitration shall be commenced by a demand in writing made by one party to the contract upon the other within a reasonable time after the dispute, claim, or other matter in question arose but in no event after payment in full of the contract price has been made and accepted. The written demand shall contain a statement of the question to be arbitrated and a detailed statement of each item or matter in dispute and the name of the arbitrator appointed by that party. The other party to the contract within ten (10) days of the receipt of the written demand shall appoint an arbitrator and give notice in writing thereof to the party who commenced arbitration. The two (2) arbitrators appointed by the parties shall within ten (10) days of the date of the appointment of the second arbitrator select a third arbitrator who shall be designated as chairperson and who immediately shall give written notice to the parties of his or her appointment. The third arbitrator shall select a time, date, and place for hearing and give each party five (5) days' notice in writing thereof. The date for hearing shall not be more than fifteen (15) days after the date of appointment of the third arbitrator. The award shall be made promptly by the arbitrators and, unless otherwise agreed by the parties or specified by law, no later than thirty (30) days from the date of closing the hearing, or, if oral hearings have been waived, from the date of the transmittal of the final statements and proofs to the arbitrators. The award shall be in writing and shall be signed by a majority of the arbitrators. It shall be executed in the manner required by law. The arbitrator shall provide a written explanation of the reasoning for the award. In the event the party of whom arbitration is demanded shall fail to appoint his or her arbitrator within the time specified or the two (2) arbitrators appointed by the parties are unable to agree on an appointment of the third arbitrator within the time specified, either party may petition the presiding justice of the superior court to appoint a single arbitrator who shall hear the parties and make an award as provided herein. The petitioner shall give five (5) days' notice in writing to the other party before filing his or her petition.

115. TECHNICAL SPECIFICATIONS AND DRAWINGS

Anything mentioned in the Technical Specifications and not shown on the Drawings or shown on the Drawings and not mentioned in the Technical Specifications, shall be of like effect as if shown on or mentioned in both. In case of difference between Drawings and Technical Specifications, the Technical Specifications shall govern. In case of any discrepancy in Drawings, or Technical Specifications, the matter shall be immediately submitted to the Owner, without whose decision, said discrepancy shall not be adjusted by the Contractor, save only at his own risk and expense.

116. ADDITIONAL INSTRUCTIONS AND DETAIL DRAWINGS

It shall be the responsibility of the Contractor to make timely requests of the Owner for any additional information not already in his possession which should be furnished by the Owner under the terms of this Contract, and which he will require in the planning and execution of the work. Such requests may be submitted from time to time as the need is approached, but each shall be filed in ample time to permit appropriate action to be taken by all parties involved so as to avoid delay. The additional drawings and instructions thus supplied to the Contractor will coordinate with the Contract and instructions thus supplied to the Contractor will coordinate with the Contract Documents and will be so prepared so that they can be reasonably interpreted as part thereof. The Contractor shall carry out the work in accordance with the additional detail drawings and instructions. The Contractor and the Engineer will prepare jointly a schedule, fixing the dates at which special detail drawings will be required, such drawings if any, to be furnished by the Engineer in accordance with said schedule, and a schedule fixing the respective dates for the submission of shop drawings, the beginning of manufacture, testing and installation of materials, supplies and equipment, and the completion of the various parts of the work; each such schedule to be subject to change from time to time in accordance with the progress of the work. The Contractor shall, if requested, furnish promptly any assistance and information the Engineer may require in responding to these requests of the Contractor. The Contractor shall be fully responsible for any delay in his work or to others arising from his failure to comply fully with the provisions of this Section.

117. SHOP DRAWINGS

- A. The Contractor shall submit promptly to the Engineer each shop drawing, machinery or equipment details, layout drawings, or setting drawing, etc., prepared in accordance with the schedule predetermined as aforesaid. After examination of such drawings by the Engineer and returned approval/denial, the Contractor shall make such corrections to the drawings as have been indicated and shall submit new shop drawings. Regardless of corrections made in or approval given to such drawings by the Engineer, the Contractor will nevertheless be responsible for the accuracy of such drawings and for their conformity to the drawings and specifications, unless they notify the Engineer in writing of any deviations at the time they furnish such drawings.
- B. The Contractor is required to have a portal to provide the Owner access to shop drawing documents. The portal shall be maintained for five years. The Owner shall be afforded administrative access. Five (5) seats shall be provided to the Owner.
- C. Shop drawings of all fabricated work shall be submitted to the Engineer for approval and no work shall be fabricated by the Contractor save at their own risk until approval has been given.
- D. The Contractor shall submit all shop and setting drawings and dates sufficiently in advance of requirements to enable the Engineer ample time for checking same, including time for correction, resubmission and recheck if necessary, and no claim for delay will be granted the Contractor by reason of their failure in this respect.
- E. All shop drawings submitted must bear the stamp of approval of the Contractor as evidence that the Drawings have been checked by the Contractor. Any drawings submitted without this stamp of approval will not be considered and will be returned to the Contractor for resubmission. If the shop drawings show variations from the requirements of the Contract Documents because of standard shop practice or other reason, the Contractor shall make specified mention of such variation in his letter of transmittal in order that, if acceptable, suitable action may be taken for proper adjustment; otherwise the Contractor will not be relieved of the responsibility for

executing the work in accordance with the contract documents even though such shop drawings have been approved.

- F. Where shop drawings are submitted by the Contractor that indicate a departure from the Contract which the Engineer deems to be a minor adjustment in his interest and not involving a change in the Contract price or extension of time, the Engineer may approve the drawings by the approval will contain, in substance, the following:

The modification shown on the attached drawings is approved in the interest of the Owner to effect an improvement for the Project and is ordered with the understanding that it does not involve any change in the Contract price or time; that it is subject generally to all Contract stipulations and covenants; and that it is without prejudice to any and all rights of the Owner under the contract and surety bond or bonds.

- G. The approval of shop drawings will be general and shall not relieve the Contractor from the responsibility for adherence to the Contract nor shall it relieve him of the responsibility for any error which may exist.
- H. The Contractor agrees to hold the Engineer and the Owner harmless and defend them against damages or claims for damages arising out of injury to others or property of third persons which result from errors on shop, working or setting drawings whether or not the same have been approved by the Engineer and/or the Owner.

118. MATERIALS AND WORKMANSHIP

- A. Unless otherwise specifically provided for in the Technical Specifications, all workmanship, equipment, materials and articles incorporated in the work shall be new and the best grade of the respective kinds for the purpose. Where equipment, materials, articles or workmanship are referred to in the Technical Specifications as "equal to" any particular standard, the Engineer shall decide the question of equality. Whenever a material or article required is specified or shown on the drawings by using the name of the proprietary product or of a particular manufacturer or vendor, any material or article which will perform adequately the duties imposed by the general design may be considered equal and satisfactory providing the material or article so proposed is of equal substance and function in the opinion of the Engineer. It shall not be purchased or installed without his written approval. In all cases, new material shall be used in the project. If two or more brands, makes or material, devices or equipment are shown or specified, each should be regarded as the approved equal of the other. Any other brand, make of material, device or equipment, which in the opinion of the Engineer or his authorized agent, is the recognized approved equal of that specified, considering quality, workmanship and economy of operation and is suitable for the purpose intended, may be accepted.
- B. The Contractor shall furnish to the Owner for approval the manufacturer's detailed specifications for all machinery, mechanical and other special equipment, which he contemplates installing together with full information as to type, performance characteristics, and all other pertinent information as required, and shall likewise submit for approval as required full information concerning all other materials or articles which he proposes to incorporate in the work.
- C. Machinery, mechanical and other equipment, materials or articles installed or used without such prior approval shall be at the risk of subsequent rejection.
- D. Materials specified by reference to the number or symbol of a specific standard, such as an A.S.T.M. Standard, a Federal Specification or other similar standard,

shall comply with requirements in the latest revision thereof any amendment or supplement thereto in effect on the date of the invitation for Bids, except as limited to type, class or grade, or modified in such reference. The Standards referred to, except as modified in the Technical Specifications shall have full force and effect as though printed therein.

- E. The Owner may require the Contractor to dismiss from the work such employee or employees as the Owner or the Engineer may deem incompetent, or careless, or insubordinate.

119. SAMPLES, CERTIFICATIONS AND TESTS

- A. The Contractor shall submit all material or equipment samples, certificates, affidavits, etc., as called for in the Contract Documents, or required by the Engineer, promptly after award of the Contract and acceptance of the Contractor's bond. No such material or equipment shall be manufactured or delivered to the site, except at the Contractor's own risk, until the required samples or certificates have been approved in writing by the Engineer. Any delay in the work caused by late or improper submission of samples or certificates for approval shall not be considered just cause for an extension of the Contract time.

Each sample submitted by the Contractor shall carry a label giving the name of the Contractor, the project for which it is intended, and the name of the producer. The accompanying certificate or letter from the Contractor shall state that the sample complies with Contract requirements, shall give the name and brand of the product, its place of origin, the name and address of the producer and all specifications or other detailed information which will assist the Engineer in passing upon the acceptability of the sample promptly. It shall also include the statement that all materials or equipment furnished for use in the project will comply with the samples and/or certified statements.

- B. Approval of any materials shall be general only, and shall not constitute a waiver of the Owner's right to demand full compliance with the Contract Documents after actual deliveries, the Engineer will have such check tests made as they deem necessary in each instance and may reject materials and equipment and accessories for cause, even though such materials and articles have been given general approval. If materials, equipment or accessories which fail to meet check tests have been incorporated in the work, the Engineer will have the right to cause their removal and replacement by proper materials or to demand and secure such reparation by the Contractor as is equitable.
- C. Except as otherwise specifically stated in the Contract, the costs of sampling and testing will be divided as follows:
 - 1. The Contractor shall furnish without extra cost, including packing and delivery charges, all samples required for testing purposes, except those samples taken on the project by the Engineer or testing agency, however, the Contractor shall cooperate with and assist the Engineer or testing agency in the taking of samples on the project where the taking of samples is deemed necessary by the Engineer.
 - 2. The Contractor shall assume all costs of retesting materials which fail to meet contract requirements. The Contractor shall assume all costs of testing materials offered in substitution for those found deficient. All other expenses for testing of materials will be paid for by the Owner.

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- D. Testing and inspection of the various materials, equipment, or articles, etc., heretofore mentioned shall be performed by testing agency or agencies selected by the Owner.
 - E. Payments to the testing agency or agencies shall be paid for by the Local Owner.

120. PERMITS AND LICENSES

- A. The Contractor shall give all notices required by and comply with all applicable laws, ordinances, standard requirements, and codes of the Local Government. All construction work and/or utility installation shall comply with all applicable ordinances, standard requirements, and codes including all written waivers. Before installing any work, the Contractor shall examine the Drawings and Technical Specifications for compliance with applicable ordinances, standard requirements and codes and shall immediately report any discrepancy to the Owner. Where the requirements of the Drawings and Technical Specifications fail to comply with such applicable ordinances, standard requirements, or codes, the Owner will adjust the Contract by Change Order to conform to such ordinances, standard requirements, or codes (unless waivers in writing covering the difference have been granted by the governing body or department) and make appropriate adjustment in the Contract Price or stipulated prices. Should the Contractor fail to observe the foregoing provisions and proceed with the construction and/or install any utility at variance with any applicable ordinance, standard requirement, or code, including any written waivers (notwithstanding the fact that such installation is in compliance with the Drawings and Technical Specifications), the Contractor shall remove such work without cost to the Owner, but a Change Order will be issued to cover only the excess cost the Contractor would have been entitled to receive if the change had been made before the Contractor commenced work on the items involved.
- B. The Contractor shall, at his own expense, secure and pay to the appropriate department of the Local Government the fees or charges for all permits for street pavement, sidewalks, sheds, removal of abandoned water taps, sealing of house connection drains, pavement cuts, buildings, electrical, plumbing, water, gas and sewer permits required by the local regulatory body or any of its agencies. The required permits shall be those set forth in SPECIAL CONDITIONS, Section 367.
- C. The Contractor shall comply with applicable local laws and ordinances governing the disposal of surplus excavation, materials, debris and rubbish on or off the Project Area and commit no trespass on any public or private property in any operation due to or connected with the Improvements embraced in this Contract.

121. CARE OF WORK

- A. The Contractor shall be responsible for all damages to person or property that occur as a result of his fault or negligence in connection with the prosecution of the work and shall be responsible for the proper care and protection of all materials delivered and work performed until completion and final acceptance, whether or not the same has been covered in whole or in part by payments made by the Owner.
- B. The Contractor shall provide at his own expense sufficient competent watchmen, both day and night, including Saturday, Sundays, and holidays, from the time the work is commenced until final completion and acceptance.
- C. In an emergency affecting the safety of life, limb or property, including adjoining property, the Contractor, without special instructions or authorization from the Owner, is authorized to act at his discretion to prevent such threatened loss or injury, and he shall so act. He shall likewise act if instructed to do so by the Owner.

Any compensation claimed by the Contractor on account of such emergency work will be determined by the Owner as provided in the GENERAL CONDITIONS, PART 1, Section 109.

- D. The Contractor shall avoid damage as a result of his operations to existing sidewalks, streets, curbs, pavements, utilities (except those which are to be replaced or removed), adjoining property, etc., and he shall at his own expense completely repair any damage thereto caused by his operations.
- E. The Contractor shall shore up, brace, underpin, secure, and protect as may be necessary, all foundations and other parts of existing structures adjacent to, adjoining, and in the vicinity of the site, which may be in any way affected by the excavations or other operations connected with the construction of the Improvements embraced in this Contract. The Contractor shall be responsible for giving of any and all required notices to any adjoining or adjacent property owner or other party before the commencement of any work. The Contractor shall indemnify and save harmless the Owner from any damages on account of settlements or the loss of lateral support of adjoining property and from all loss or expense and all damages for which the Owner may become liable in consequence of such injury or damage to adjoining and adjacent structures and their premises.

122. ACCIDENT PREVENTION AND JOB SAFETY

- A. The Contractor shall exercise proper precaution at all times for the protection of persons and property and shall be responsible for all damages to persons or property, either on or off the site, which occur as a result of his prosecution of the work. The safety provisions of applicable laws and building and construction codes shall be observed and the Contractor shall take or cause to be taken such additional safety and health measures as the Owner may determine to be reasonable necessary. Further, the Contractor shall comply, and shall cause all Subcontractors to comply with all applicable provisions of the U.S. Department of Labor "Williams-Steiger Occupational Safety and Health Act of 1970."
- B. The Contractor shall maintain an accurate record of all cases of death, occupational disease, or injury requiring medical attention or causing loss of time from work, arising out of and in the course of employment on work under the Contract. The Contractor shall promptly furnish the Owner with reports concerning these matters.
- C. The Contractor shall indemnify and save harmless the Owner and the Engineer from any claims for damages resulting from property damage, personal injury and/or death suffered or alleged to have been suffered by any person as a result of any work conducted under this contract.
- D. Upon execution of the Contract, the Contractor shall provide their Safety Program to the Owner.

123. SANITARY FACILITIES

- A. The Contractor shall furnish, install, and maintain ample sanitary facilities for the workmen. As the needs arise, a sufficient number of enclosed temporary toilets shall be conveniently placed as required by the sanitary codes of the State and Local Government. Drinking water shall be provided from an approved source, so piped or transported as to keep it safe and fresh and served from single service containers or satisfactory types of sanitary drinking stands or fountains. All such facilities and services shall be furnished in strict accordance with existing and governing health regulations.

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- B. Sanitary facilities shall not be placed in the public right-of-way.

124. USE OF PREMISES

- A. The Contractor shall confine his equipment, storage of materials, and construction operations to the Contract Limits as shown on the Drawings and as prescribed by ordinances or permits, or as may be desired by the Owner, and shall not unreasonably encumber the site or public rights-of-way with his materials and construction equipment.
- B. The Contractor shall comply with all reasonable instructions of the Owner and the ordinances and codes of the Local Government, regarding signs, advertising, traffic, fires, explosives, danger signals and barricades.
- C. The Contractor is not permitted to store equipment or stockpiles in the public right-of-way.

125. REMOVAL OF DEBRIS, CLEANING, ETC.

The Contractor shall, periodically or as directed during the progress of the work, remove and legally dispose of all surplus excavated material and debris, and keep the Project Area and public rights-of-way reasonably clear. Upon completion of the work, he shall remove all temporary construction facilities, debris and unused materials provided for the work and put the whole site to the work and public rights-of-way in a neat and clean condition. No trash burning will be permitted on the site of the work. The Contractor shall obey all Owner and existing State and local regulations.

126. INSPECTION

- A. All materials and workmanship shall be subject to inspection, examination, or test by the Owner and the Engineer at any and all times during manufacture or construction and at any and all places where such manufacture or construction is carried on. The Owner shall have the right to reject defective material and workmanship or require its correction. Unacceptable workmanship shall be satisfactorily corrected. Rejected material shall be promptly segregated and removed from the Project Area and replaced with material of specified quality without charge therefor. If the Contractor fails to proceed at once with the correction of rejected workmanship or defective material, the Owner may by Contract or otherwise have the defects remedied or rejected materials removed from the Project Area and charge the cost of the same against any monies which may be due the Contractor, without prejudice to any other rights or remedies of the Owner.
- B. The Contractor shall furnish promptly all materials reasonably necessary for any tests which may be required. (See Section 118 hereof.) All tests by the Owner will be performed in such manner as not to delay the work unnecessarily and will be made in accordance with the provisions of the Technical Specifications.
- C. The Contractor shall notify the Owner sufficiently in advance of backfilling or concealing any facilities to permit proper inspection. If any facilities are concealed without approval or consent of the Owner, the Contractor shall uncover for inspection and recover such facilities all at his own expense, when so requested by the Owner. Should it be considered necessary or advisable by the Owner at any time before final acceptance of the entire work to make an examination of work already completed by uncovering the same, the Contractor shall on request promptly furnish all necessary facilities, labor, and material. If such work is found to be defective in any important or essential respect, due to fault of the Contractor or his Subcontractors, the Contractor shall defray all the expenses of such examination

and of satisfactory reconstruction. If, however, such work is found to meet the requirements of the Contract, the actual cost of labor and material necessarily involved in the examination and replacement, plus 15% of such costs to cover superintendence, general expenses and profit, shall be allowed the Contractor and he shall, in addition, if completion of the work of the entire Contract has been delayed thereby, be granted a suitable extension of time on account of the additional work involved.

- D. Inspection of materials and appurtenances to be incorporated in the Improvements embraced in this Contract may be made at the place of production, manufacture or shipment, whenever the quantity justifies it, and such inspection and acceptance, unless otherwise stated in the Technical Specifications, shall be final except as regards (1) latent defects, (2) departures from specific requirements of the Contract, (3) damage or loss in transit, or (4) fraud or such gross mistakes as amount to fraud. Subject to the requirements contained in the preceding sentence, the inspection of materials as a whole or in part will be made at the Project Site.
- E. Neither inspection, testing, approval nor acceptance of the work in whole or in part, by the Owner or its agents shall relieve the Contractor or his sureties of full responsibility for materials furnished or work performed not in strict accordance with the Contract.

127. REVIEW BY OWNER

The Owner, its authorized representatives and agents and the Representative for the Secretary shall at all times have access to and be permitted to observe and review all work, materials, equipment, payrolls, personnel records, employment conditions, material invoices, and other relevant data and records pertaining to this Contract, provided, however, that all instructions and approval with respect to the work will be given to the Contractor only by the Owner through its authorized representatives or agents.

128. FINAL INSPECTION

When the Improvements embraced in this Contract are substantially completed, the Contractor shall notify the Owner in writing that the work will be ready for final inspection on a definite date which shall be stated in the notice. The notice will be given at least ten (10) days prior to the date stated for final inspection, and bear the signed concurrence of the representative of the Owner having charge of inspection. If the Owner determines that the status of the improvements is as represented, it will make the arrangements necessary to have final inspection commenced on the date stated in the notice, or as soon thereafter as is practicable. The inspection party will also include the representatives of each department of the Local Government.

129. CORRECTION OF WORK

All work, all materials, whether incorporated in the work or not, all processes of manufacture, and all methods of construction shall be at all times and places subject to the inspection of the Engineer who shall be the final judge of the quality and suitability of the work, materials, processes of manufacture and methods of construction for the purposes for which they are used. Should they fail to meet his approval they shall be forthwith reconstructed, made good, replaced and/or corrected, as the case may be, by the Contractor, at their own expense. Rejected material shall immediately be removed from the site. If, in the opinion of the Engineer and the Owner, it is undesirable to replace any defective or damaged materials or to reconstruct or correct any portion of the work injured or not performed in accordance with the Contract Documents, the compensation to be paid to the Contractor hereunder shall be reduced by such amount as in the judgment of the Owner shall be equitable. The Contractor shall be responsible for all costs associated with correction of work, including but not limited to police details, construction management/inspection, Traffic Engineering fees and materials testing.

130. INSURANCE

Schedule A5 – Department of Transportation Projects: As contained in the State of Rhode Island Department of Transportation’s Standard Specifications for Road and Bridge Design document commonly referenced as the Rhode Island Department of Transportation’s “Blue Book” located at www.dot.ri.gov/business/bluebook.php and as required below. If the Blue Book’s insurance requirements and the following insurance requirements conflict, the larger requirement shall control.

Required Insurance: Contract Party shall procure Required Insurance as defined herein:

- A. At the sole cost and expense of Contract Party.
- B. Obtain and maintain such Required Insurance in full force and effect during the entire term of the Contract until all obligations of Contract Party have been discharged, including any warranty periods or extended reporting periods, against claims that may arise out of, are alleged to arise out of, directly or indirectly, in whole or in part, from or in connection with the Contract and/or result from the performance of the Contract.
- C. Any deductible, self-insured retention, or form of self-insurance under the policies shall be the sole responsibility of the Contract Party and shall be disclosed to and acceptable to the State authorized personnel.
- D. Any required liability insurance policy that is to insure any form of products liability and/or completed operations exposure created by Contract Party must provide extended coverage as follows:
 - 1. When required liability insurance policy uses “Occurrence” coverage trigger (Including that known as “Reported Occurrence”):
 - i. Policy issued by same insurer for Contract Party as of effective date of Contract between State and Contract Party or by comparable insurer providing renewal insurance policy of 1-same coverage terms and conditions of prior expired policy or 2-coverage at least equal to that required by Contract.
 - 2. Such coverage must be provided for a period of not less than five (5) years after the later of:
 - i. when the Contract has ended; or
 - ii. when products or services have been put to intended use; or
 - iii. when hardware, software, buildings, other physical structures or repairs have been put to intended use.
 - 3. Such required insurance can be provided by annual insurance policies or by single runoff policy commonly referred to as “discontinued products or operations.”
- E. When required liability insurance policy uses any form of “claims-first made trigger:”
 - 1. Policy issued by same insurer for Contract Party as of effective date of Contract between State and Contract Party or by comparable insurer providing renewal insurance policy of 1-same coverage terms and

conditions of prior expired policy or 2-coverage at least equal to that required by Contract.

2. Provide coverage with a retroactive date on or before the effective date of the Contract or at the beginning of Contract work.
3. Such coverage must be provided for a period of not less than five (5) years after the later of:
 - i. when the Contract has ended; or
 - ii. when products or services have been put to intended use; or
 - iii. when hardware, software, buildings, other physical structures or repairs have been put to intended use.
4. Such required insurance can be provided by annual insurance policies or by single runoff policy commonly referred to as “discontinued products or operations”.
5. If “claims-first made” liability insurance policy is cancelled or not renewed, and not replaced with another claims-made policy form with a retroactive date prior to the Contract date, the Contract Party must purchase extended reporting coverage for a minimum of five (5) years after completion of work.
6. Required Insurance limits to be provided by single insurance policy or through “follow form primary” layered excess insurance policies to obtain overall required limit(s).
7. Contract Party’s subcontractors to maintain same insurance.
8. Any insurance obtained by Contract Party that includes an “insured vs. insured” exclusion must be revised to exclude State and Owner as Additional Insured.
9. The State and Owner reserve the right to consider and accept alternative forms and plans of insurance or to require additional more extensive coverage for any individual requirement and can modify types of insurance and revise limits required of Contract Party at any time during the term of this Contract.

F. Required Insurance:

1. Commercial General Liability Insurance. Commercial General Liability Insurance (“CGL”) based on Insurance Services Office (“ISO”) most recent version of Commercial General Liability policy form CG00 01, or its equivalent:
 - i. Covering bodily injury (including death), broad form property damage, personal and advertising injury, independent contractors, products and completed operations and contractual liability.
 - ii. Such insurance coverage is subject to a minimum combined single limit of \$1,000,000 per occurrence, \$2,000,000 general aggregate and \$1,000,000 products/completed operations aggregate.

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- iii. The general aggregate must be on a “per project” or “per location” basis.
 - iv. Shall include waiver of subrogation in favor of State and City of Providence.
 - v. Include State and Owner as additional insured on a primary and non-contributory basis.
 - vi. The Contract Party shall submit a copy of any policy endorsement, or blanket endorsement, evidencing the State and Owner as additional insured on a primary and non- contributory basis and a waiver of subrogation in favor of State and Owner. All endorsements shall be subject to review and approval by the authorized State personnel.
 - vii. Any time Contract Party is responsible for construction of any kind the additional status for State shall include additional Insured-products/completed operations in addition to additional insured-premises/operations.
2. Automobile Liability Insurance. Automobile Liability Insurance based on ISO most recent version of Business Automobile Policy (“BAP”) CA 00 01, or its equivalent:
- i. Covering bodily injury and property damage for any vehicles used in conjunction with the performance of this Contract including owned, non-owned, and hired vehicles.
 - ii. If a Contract Party does not own any vehicle at any time during the duration of this Contract then the Contract Party can seek hired and non-owned automobile coverage as provided by BAP or by hired non-owned automobile coverage endorsement to CGL.
 - iii. At a minimum Contract Party must maintain hired and non-owned automobile coverage for the full duration of this Contract.
 - iv. Such insurance coverage is subject to a minimum combined single limit of \$1,000,000 per occurrence and \$2,000,000 aggregate.
 - v. Shall include waiver of subrogation in favor of State and City of Providence.
 - vi. Include State and Owner as additional insured on a primary and non-contributory basis.
 - vii. The Contract Party shall submit a copy of any policy endorsement, or blanket endorsement, evidencing the State as additional insureds on a primary and non- contributory basis and a waiver of subrogation in favor of State. All endorsements shall be subject to review and approval by the authorized State personnel.
3. Workers’ Compensation and Employers’ Liability.
- i. Statutory coverage as required by the workers’ compensation laws of the State of Rhode Island, plus any applicable state law other than State of Rhode Island if employee(s) state of hire is other

than State of Rhode Island or employee(s) work related to the Contract is not in the State of Rhode Island.

- ii. Policy form based on NCCI or its equivalent.
 - iii. Employers' Liability with minimum limits of \$500,000 each accident, \$500,000 disease or policy limit and \$500,000 each employee or minimum amount necessary for umbrella/excess liability policy of Contract Party.
 - iv. A Contract Party neither eligible for, nor entitled to, Worker's Compensation who is an independent Contract Party under Rhode Island law must comply with the statutory procedure precluding an independent Contract Party from bringing a workers' compensation claim against the State or the Owner.
 - v. Policy to include waiver of subrogation in favor of State and Owner.
 - vi. The Contract Party shall submit a copy of any policy endorsement or blanket endorsement evidencing the waiver of subrogation in favor of the State and Owner. All endorsements shall be subject to review and approval by the State authorized personnel.
4. Umbrella Liability Insurance
- i. \$5,000,000 per occurrence and \$5,000,000 in aggregate.
5. Pollution Liability Insurance
- i. \$2,000,000 policy limit

All Required Insurance shall be:

- A. Placed with insurers:
 - 1. Authorized to do business in Rhode Island.
 - 2. Rated "A-," class X or better by A.M. Best Company, Inc.
 - 3. Any insurer with a lesser financial rating must be approved by the authorized State personnel.

The legal defense provided to the State and the Owner under the policy and any endorsements must be free of any conflicts of interest, even if retention of separate legal counsel for the State and the Owner is necessary.

As evidence of the insurance required by this Contract, the Contract Party shall furnish to State Certificates of Insurance, including confirmation of all required policy endorsements including, but not limited to, additional insured endorsements:

- A. In form acceptable to the State to the Department of Administration, Division of Purchases prior to a Division of Purchases award. Failure to comply with this provision may result in rejection of the bid offer.
- B. All certificates of insurance, whenever issued, shall include the requirement of the insurer for thirty (30) days advance written notice of cancellation or non-renewal of any

insurance policy to Department of Administration, Division of Purchases Attn: Purchasing Agent, One Capitol Hill, Providence, RI 02908 and the Owner. Contract Party shall also immediately notify the State and Owner if the Required Insurance is cancelled, non-renewed, potential exhaustion of policy limits or otherwise changed.

- C. Certificates of Insurance and required endorsements shall thereafter be submitted annually or earlier upon expiration and renewal of any of the policies.
- D. All Certificates of Insurance and to the extent possible endorsements shall reference the State procurement number.
- E. State and Owner retains the right to demand a certified copy of any Required Insurance policy, Certificate of Insurance or endorsement.

The Contract Party shall be responsible to obtain and maintain insurance on any real or personal property owned, leased or used by State that is in the care, custody or control of Contract Party. All property insurance of Contract Party must include a waiver of subrogation that shall apply in favor of the State and Owner.

No warranty is made that the coverages and limits listed herein are adequate to cover and protect the interests of the Contract Party for the Contract Party's operations. These are solely minimums that have been established to protect the interest of the State and Owner.

State and Owner shall be indemnified and held harmless as required by the Contract and to the full extent of any coverage actually secured by the Contract Party in excess of the minimum requirements set forth above.

The Contract Party shall use at its own risk and insure at its own cost any of its owned, leased or used real or personal property. All such insurance of Contract Party must include a waiver of subrogation that shall apply in favor of the State and Owner.

The Contract Party shall comply with any other insurance requirements including, but not limited to, additional coverages or limits contained in the procurement or solicitation.

Failure to comply with these Insurance Requirements is a material breach entitling the State and Owner to terminate or suspend the Contract immediately.

These Insurance Requirements shall survive expiration or termination of the Contract.

131. PATENTS

The Contractor shall hold and save the Owner, its officers and employees, harmless from liability of any nature or kind, including costs and expenses, for, or on account of, any patented or unpatented invention, process, article, or appliance manufactured or used in the performance of the Contract, including its use by the Owner, unless otherwise specifically stipulated in the Technical Specifications.

132. WARRANTY OF TITLE

No material, supplies, or equipment to be installed or furnished under this Contract shall be purchased subject to any chattel mortgage or under a conditional sale, lease-purchase or other agreement by which an interest therein or in any part thereof is retained by the seller or supplier. The Contractor shall warrant good title to all materials, supplies, and equipment installed or incorporated in the work and upon completion of all work, shall deliver the same together with all improvement and appurtenances constructed or placed thereon by him to the Owner free from any claims, liens, or charges. Neither the Contractor nor any person, firm or corporation furnishing any material or labor for any work covered by this Contract shall have any right to a lien

upon any improvement or appurtenance thereon. Nothing contained in this paragraph, however, shall defeat or impair the right of persons furnishing materials or labor to recover under any bond given by the Contractor for their protection or any rights under any law permitting such persons to look to funds due the Contractor in the hands of the Owner. The provisions of this paragraph shall be inserted in all subcontracts and material contracts and notice of its provisions shall be given to all persons furnishing materials for the work when no formal contract is entered into for such materials.

133. GENERAL GUARANTY

Neither the final certificate of payment nor any provision in the Contract nor partial or entire use of the Improvements embraced in this Contract by the Owner or the public shall constitute an acceptance of work not done in accordance with the Contract or relieve the Contractor of liability in respect to any express warranties or responsibility for faulty materials or workmanship. The Contractor shall promptly remedy any defects in the work and pay for any damage to other work resulting therefrom which shall appear within a period of 24 months from the date of final acceptance of the work. Final acceptance shall be defined as the date in which all outstanding punch list items are completed and when all work items identified during the final inspection are completed. The Owner will give notice of defective materials and work with reasonable promptness.

134. REPRESENTATIONS OF CONTRACTOR

The Contractor represents and warrants:

- A. That they are financially solvent and that they are experienced and competent to perform the type of work or furnish the plant, material, supplies, or equipment to be performed or furnished by them; and
- B. That they are familiar with all Federal, State, municipal and department laws, ordinances, orders and regulations which may in any way effect the work of those employed therein, including but not limited to any special, acts relating to the work or to the project of which it is a part; and
- C. That such temporary and permanent work required by the Contract Documents to be done by them can be satisfactorily constructed and used for the purpose for which it is intended, and that such construction will not injure any person or damage any property; and
- D. That they have carefully examined the Drawings, Technical Specifications and addendum (or addenda), if any, and the site of the work, and that from their own investigation they have satisfied themselves as to the nature and location of the work, the character, quality and quantity of surface and subsurface materials likely to be encountered, the character of equipment and other facilities needed for the performance of the work, the general and local conditions, and all other materials which may in any way affect the work or its performance.

135. WEATHER CONDITIONS

In the event of temporary suspension of work, or during inclement weather, or whenever the Engineer shall direct, the Contractor shall, and shall cause his Subcontractors to protect carefully his and their work and materials against damage or injury from the weather at no additional cost to the Owner. If, in the opinion of the Engineer, any work or material shall have been damaged or injured by reason of failure on the part of the Contractor or any of his Subcontractors so to protect his work, or otherwise damaged by the negligence of the Contractor, Subcontractors or their agents or servants, or is otherwise defective, such materials shall be removed and replaced at the expense of the Contractor. Special attention shall be given to the winter shutdown period. All

temporary patching to make the roads passable or to keep driveways open and safe, shall be done at no additional cost to the Owner.

136. QUANTITIES OF ESTIMATE

Wherever the estimated quantities of work to be done and materials to be furnished under this contract are shown in any of the Contract Documents including the Bid (proposal), they are given for use in comparing bids and the right is especially reserved by the Owner to increase or diminish them as may be deemed reasonably necessary or desirable by the Owner, and such increase or diminution shall in no way vitiate claims or liability for damages except as provided for in Section 109 hereof.

137. NOTICE AND SERVICE THEREOF

- A. The service of any notice, letter or other communication shall be deemed to have been made to one of the contracting parties on the other party to the Contract when such letter, notice or other communication has been delivered to the legal office address of the addressee, by a duly authorized representative of the address or in person, or when such notice, letter or other communication has been deposited in any regularly maintained mailbox of the United States Postal Department in a properly addressed, postpaid wrapper. The date of such service shall be considered to be the date of such personal delivery or mailing.
- B. The address of the Contractor noted in his bid (proposal) and/or the address of his field office on or near the site of the work hereunder shall be considered as his legal address for the purposes as above set forth.

138. PROVISIONS REQUIRED BY LAW DEEMED INSERTED

Each and every provision of law and clause required by law to be inserted in this Contract shall be deemed to be inserted herein and the Contract shall be read and enforced as though it were included herein, and if through mistake or otherwise any such provision is not inserted, or is not correctly inserted, then upon the application of either party the Contract shall forthwith be physically amended to make such insertion or correction.

139. LIENS

Neither the final payment nor any part of the retained percentage shall become due until the Contractor delivers to the Owner a complete release of all liens arising out of this contract, or receipts in full in lieu thereof, and an affidavit that so far as he has knowledge or information the releases and receipts include all the labor and material for which a lien could be filed, but the Contractor may, if any Subcontractor refuses to furnish a release or receipt in full, furnish a bond satisfactory to the Owner to indemnify him against any liens. If any liens remain unsatisfied after all payments are made, the Contractor shall refund to the Owner all monies that the latter may be compelled to pay in discharging such a lien, including all costs and a reasonable attorney's fee.

THE OWNER, PRIOR TO MAKING EACH PAYMENT TO THE CONTRACTOR, may require the Contractor to furnish releases or receipts from any or all persons / firms performing work and supplying material or services to the Contractor, or any Subcontractor, if deemed necessary to protect its interest.

140. CONTRACTOR'S OBLIGATIONS

- A. The Contractor shall and will in good workmanlike manner, do and perform all work and furnish all supplies and materials, machinery, equipment, facilities and means, except as herein otherwise expressly specified, necessary or proper to perform and complete all the work required by this Contract, within the time herein specified, in

accordance with the provisions of this Contract and said Technical Specifications and in accordance with the Plans and Drawings covered by this contract and any and all supplemental Plans and Drawings, and in accordance with the directions of the Engineer as given from time to time during the progress of the work as may be required. He alone shall be responsible for the safety, efficiency and adequacy of his plant, appliances and methods and for any damage which may result from their failure or their improper construction, maintenance or operation. The Contractor shall observe, comply with and be subject to all terms, conditions, requirements and limitations of the Contract specifications, and shall do, carry on, and complete the entire work to the satisfaction of the Engineer and the Owner.

- B. The Contractor shall be solely responsible for all the work and shall provide all precautionary measures necessary for preventing injury to persons or damage to property. All injury or damage of whatever nature resulting from the work or resulting to persons, property or the work during its progress, from whatever cause, shall be the responsibility of and shall be borne and sustained by the Contractor. The Contractor shall hold the Engineer, the Owner or their agents harmless and defend and indemnify the Engineer and the Owner or their agents against damages or claims for damages due to injuries to persons or to property arising out of the execution of the work and for damages to materials furnished for the work, infringement of inventions, patents and patent rights used in doing the work, or damages arising out of the use of any improper materials, equipment, or labor used in the work, and for any act, omission or neglect of the Contractor, his agents, employees and his Subcontractors therein. He shall bear all losses resulting to him including but not limited to losses sustained on account of character, quality or quantity of any part or all of the work, or because the nature of the land in or on which the work done being different from what was estimated or indicated, or on account of the weather, elements or other causes.

141. ENGINEER'S AUTHORITY

The Engineer shall give all orders and directions contemplated under this Contract and Technical Specifications relative to the execution of the work. The Engineer shall determine the amount, quality, acceptability and fitness of the several kinds of work and materials which are to be paid for under this Contract and shall decide all questions which may arise in relation to said work and construction thereof. The Engineer's estimates and decisions shall be final and conclusive, except as herein otherwise expressly provided. In case any question shall arise between the parties hereto relative to said Contract or Technical Specifications, the determination or decision of the Engineer shall be a condition precedent to the right of the Contractor to receive any money or payment for work under this Contract affected in any manner or to any extent by such question. The Engineer shall decide the meaning and intent of any portion of the Technical Specifications and of any Plans or Drawings where the same may be found obscure or be in dispute. Any differences or conflicts in regard to their work which may arise between the Contractor under this Contract and other Contractors performing work for the Owner shall be adjusted and determined by the Engineer.

The Engineer does not have unilateral authority and shall work collaboratively with the Owner.

142. ALL WORK SUBJECT TO CONTROL BY ENGINEER

- A. In the performance of the work, the Contractor shall abide by all orders, directions and requirements of the Engineer or his designee, and shall perform all work to the satisfaction of the Engineer, and at such time and places, by such methods and in such manner and sequence as he may require. The Engineer shall determine the amount, quality, acceptability and fitness of all parts of the work. The Engineer shall interpret the Drawings, Technical Specifications, Contract, all other documents and the extra work orders. The Engineer shall also decide all other questions in connection with the work. The Contractor shall employ no plant, equipment,

materials, methods or men to which the Engineer objects and shall remove no plant, materials, equipment or other facilities from the site of the work without the Engineer's permission. Upon request, the Engineer will confirm in writing any oral order, direction, requirement or determination.

- B. Inspectors shall be authorized to inspect all work done and material furnished. Such inspection may extend to all or any part of the work, and to the preparation or manufacture of the materials to be used. The presence or absence of an Inspector shall not relieve the Contractor from any requirements of the Contract. In case of any dispute arising between the Contractor and the Inspector as to materials furnished or the manner of performing the work, the Inspector shall have the authority to reject material or suspend the work until the question at issue can be referred to and decided by the Engineer. The Inspector shall not be authorized to revoke, alter, enlarge, relax or release any requirement of these specifications, nor to approve or accept any portion of the work, nor to issue instructions contrary to the drawings and specifications. The Inspector shall in no case act as foreman or perform other duties for the Contractor, or interfere with the management of the work by the latter. Any advice which the Inspector may give the Contractor shall in nowise be construed as binding the Owner or the Engineer in any way nor releasing the Contractor from the fulfillment of the terms of the contract.

143. INTERPRETATION OF DRAWINGS AND TECHNICAL SPECIFICATIONS

- A. Except the Contractor's executed set, all Drawings and Technical Specifications are the property of the Owner. The Owner will furnish the Contractor without charge three (3) paper sets of the Drawings and Technical Specifications and one CD/DVD containing digital copies of Drawings and Technical Specifications. Additional sets will be furnished upon request at a cost as determined by the Owner. Such Drawings and Technical Specifications are not to be used on other work and those sets in usable condition shall be returned to the Owner upon request at the completion or cessation of the work or termination of the contract.
- B. The Contractor shall keep at the site of the work one copy of the Drawings and Technical Specifications, and shall at all times give the Owner and the Engineer and their representatives access thereto. Anything shown on the Drawings and not mentioned in the Technical Specifications, or mentioned in the Technical Specifications and not shown on the Drawings, shall have the same effect as if shown or mentioned in both. In case of any conflict or inconsistency between the Drawings and Technical Specifications, the Specifications shall take precedence. Any discrepancy in the figures and the Drawings shall be immediately submitted by the Contractor to the Engineer for decision and the decision thereon by the Engineer shall be final. In case of differences between small and large scale drawings, the larger scale drawings shall take precedence.

144. ENGINEER'S CONTROL NOT LIMITED

The enumeration in this Contract of particular instances in which the opinion, judgment, discretion or determination of the Engineer shall control or in which work shall be performed to his satisfaction or subject to his approval or inspection, shall not imply that only matters similar to those enumerated shall be so governed and performed, but without exception all the work shall be so governed and performed.

145. CONTRACT AND CONTRACT DOCUMENTS

The Drawings, the Technical Specifications and Addendum (or Addenda), the Advertisement, the Information for and Notice To Bidders, and the Bid (Proposal) as accepted by the Owner as evidenced by the Owner's Notice to Award to the Contractor, which Notice is made a part of this

Contract. Special Provisions and the General Provisions shall form a part of this Contract and the provisions thereof shall be as binding upon the parties hereto as if they were herein fully set forth. The table of contents, titles, headings, running headlines and marginal references to various provisions of the Contract Documents are in no way to affect, limit or cast light on the interpretation of the provisions to which they refer. Whenever the term "Contract Documents" is used, it shall mean and include this Contract, the enumerated Drawings, Special Provisions, General Provisions, the Technical Specifications, the Advertisement, the enumerated Addendum (or Addenda), Information for Bidders, the Bid (Proposal) as accepted by the Owner. The Owner shall interpret his own requirements. In case of any conflict or inconsistency between the provisions or this signed portion of the Contract and those of the Technical Specifications, the provisions of this signed portion of the Contract shall govern.

146. LIST OF DRAWINGS – BROAD STREET IMPROVEMENTS:

The list of Drawings for Broad Street Improvements can be found in the SPECIAL CONDITIONS, Section 371.

147. COOPERATION WITH UTILITIES

- A. The Contractor shall arrange and cooperate with the various utility corporations or other parties interested in connection with the relocation and maintenance of all public fixtures when necessary and appurtenances or service connections within or adjacent to the limits of construction, as directed by the Engineer.
- B. The Contractor will be responsible for any damage done to any utility poles or lines, curbing, basins, hydrants, water and sewer lines, conduits and other accessories and appurtenances of a similar nature which are fixed or controlled by the City Public Utility Company or Corporation. He shall perform any carry out his work in such a manner as not to interfere with or damage fixtures mentioned herein, or as shown on the Plans or discovered during construction.

148. MAINTENANCE OF FIRE LANES

Fire lanes designated by the Department of Public Safety must be accessible at all times for firefighting equipment, other emergency apparatus and traffic crossing.

149. "OR APPROVED EQUAL" CLAUSE

Whenever a material or article required is specified or shown on the Drawings by using the name of the proprietary product or of a particular manufacturer or vendor, any material or article which will perform adequately the duties imposed by the general design will be considered equal and satisfactory providing the material or article so proposed is of equal substance and function in the Engineer's and City's opinion. It shall not be purchased or installed without the Owner's written approval. In all cases new material shall be used on the project.

150. REPORTS, RECORDS AND DATA

The Contractor and each of his Subcontractors shall submit to the Owner such schedules of quantities and costs, progress schedules, payrolls, reports, estimates, records and other data as the Engineer may request concerning work performed or to be performed under this Contract.

151. CONFLICTING CONDITIONS

Any provision in any of the Contract Documents which may be in conflict or inconsistent with any of the articles in this Contract and General Provisions shall be void to the extent of such conflict or inconsistency.

152. SAFETY AND HEALTH REGULATIONS

These construction documents, and the joint and several phases of construction hereby contemplated, are to be governed, at all times, by applicable provisions of the Federal law(s), including, but not limited to, the latest amendments of the following:

- A. Williams-Steiger Occupational Safety and Health Act of 1970, Public Law 91-596;
- B. Part 1910 - Occupational Safety and Health Standards, Chapter XVII of Title 29, Code of Federal Regulations;
- C. Part 1926 - Safety and Health Regulations for Construction, Chapter XVII of Title 29, Code of Federal Regulations.

153. PROTECTION OF LIVES AND PROPERTY

- A. In order to protect the lives and health of their employees under the Contract, the Contractor shall comply with all pertinent provisions of the "Manual of Accident Prevention in Construction" issued by the Associated General Contractors of America, Incorporated, and shall maintain an accurate record of all cases of death, occupational disease, and injury requiring medical attention or causing loss of time from work, arising out of and in the course of employment on work under this Contract.
- B. The Contractor alone shall be responsible for the safety, efficiency and adequacy of their plant, appliances and methods, and for any damage which may result from their failure or their improper construction, maintenance or operation.
- C. The Contractor shall be solely responsible for the acts and omissions of their agents, employees and their Subcontractors and their agents and employees and shall hold the Engineers and the Owner harmless and defend the injuries to others or property of others which result from said acts or omissions.

154. CONTRACTOR TO LAY OUT THEIR OWN WORK

- A. The Contractor shall be responsible to lay out all the contract work and shall be responsible for the accuracy of all lines, grades and measurements, and conformance to the Americans with Disabilities Act.

155. SUBSURFACE DATA

- A. The Contractor shall be aware that some buildings in the City have basements and/or utility vaults under the sidewalks. The Contractor shall be solely responsible to verify the presence of building/utility vaults and use extreme care when working within or adjacent to sidewalks in front of buildings that may contain vaults. Any basement or utility vaults damaged by the Contractor while carrying out this Contract shall be repaired by the Contractor to the satisfaction of the Engineer at no additional charge to the Owner. The Contractor is solely responsible for the investigation of subsurface basement vaults. It is recommended that the Contractor perform a pre-existing conditions survey.
- B. Pavement cores have not been obtained by the Design Engineer. Core logs are not included in the Contract Documents.

**GENERAL CONDITIONS, PART II -
NON-FEDERAL LABOR STANDARDS
PROVISIONS**
Broad Street Improvements

PROVIDENCE, RHODE ISLAND

201. GENERAL CONDITIONS

The following Non-Federal Labor Standards Provisions, including the following provisions concerning maximum hours of work, minimum rates of pay, and overtime compensation, with respect to the categories and classifications of employees hereinafter mentioned are included in this Contract pursuant to the requirements of applicable State or local laws, but the inclusion of such provisions shall not be construed to relieve the Contractor or any Subcontractor from the pertinent requirements of any corresponding Federal Labor-Standards Provisions of this contract. In case the set forth in the Federal Labor Standards Provisions of this Contract for corresponding classifications, be the applicable minimum rates of pay for such classifications. The limitations, if any, in these employees engage on the work covered by this Contract may be required of permitted to work thereon shall not be exceeded.

202. OTHER STIPULATIONS

The Contractor shall comply with the applicable provisions of all Rhode Island labor laws as administered by the Rhode Island State Department of Labor, including particularly the provisions of the following:

- A. Title 37, Chapter 13, Sections 1 to 14
- B. Title 28, Chapter 16, Sections 1 and 2
- C. Title 45, Chapter 32, Sections 43 and 44

The Contractor shall further comply with the applicable provisions of the Rhode Island Employment Security Act and the Rhode Island Temporary Disability Insurance Act, and shall report, upon the certified copies of payrolls as required by GENERAL CONDITIONS PART 1 – SECTION 109, all employer contributions made and all employee deductions taken in compliance with said Acts.

The Contractor shall further comply with the applicable provisions of Title 28, Chapter 5, Sections 1 to 43, of the General Laws of Rhode Island, 1956 the State Fair Employment Practices Act, as amended.

203. SCHEDULE OF SALARIES AND WAGES

The rates of payment of wages, obligations and charges for labor by the contractor shall be not less than Davis-Wage determinations available online at <https://beta.sam.gov/>.

SPECIAL CONDITIONS

Broad Street Improvements

PROVIDENCE, RHODE ISLAND

301. PROJECT AREA

The limits of Broad Street Improvements are Broad Street from Elmwood Avenue to Hawthorne Avenue in the City of Providence, Providence County, Rhode Island.

The work associated with the infrastructure improvements includes, but is not limited to, installation of new concrete sidewalk, curb ramps, and detectable warning systems; installation of floating bus stops; removal and disposal of existing signs and installation of new signs; installation of pavement markings; traffic signal modifications; and all other incidentals necessary to execute the work complete in place and accepted within the limits of this contract to the satisfaction of the Engineer.

City of Providence Capital Improvement Program funds are for the resurfacing of Broad Street, within the limits noted above, as an add-alternate to the Broad Street Improvements project. The work associated with the add-alternate infrastructure improvements includes, but is not limited to, the resurfacing of Broad Street and the installation of new curb ramps and all other incidentals necessary to execute the work complete in place and accepted within the limits of the add-alternate to the satisfaction of the Engineer.

302. TIME FOR COMPLETION

The work which the Contractor is required to perform under this Contract shall be commenced at the time stipulated by the Owner in the Notice to Proceed to the Contractor and shall be substantially complete by **WEDNESDAY, JUNE 1, 2022** and fully completed, including all punch list items by **THURSDAY, JUNE 30, 2022**. The construction needs to occur in a continuous manner without gaps in the work, unless an excusable delay occurs, as defined in GENERAL PROVISIONS PART I, Section 112.

303. LIQUIDATED DAMAGES

Liquidated damages shall be as set forth in the INSTRUCTIONS TO BIDDERS, Section 20 and in APPENDIX C – TECHNICAL SPECIFICATIONS – JOB SPECIFIC.

The Contractor shall pay special attention to the timelines and liquidated damages associated with the following items:

905.1000 – Sidewalks

906.9901 – Traffic Separator Curb with Flex Post

T18.9901 – Flexible Delineator Post

T20.9902 – T20.9906 – Pavement Marking Words and Symbols

304. RESPONSIBILITIES OF CONTRACTOR

Except as otherwise specifically stated in the Contract Documents and Technical Specifications, the Contractor shall provide and pay for all materials, labor, tools, equipment, water, light, heat, power, transportation, superintendence, temporary construction of every nature, charges, levies, fee or other expenses and all other services and facilities of every nature whatsoever necessary for the performance of the Contract and to deliver all improvements embraced in the Contract for Site Preparation complete in every respect within the specified time.

305. COMMUNICATIONS

- A. All notices, demands, requests, instructions, approvals, proposals, and claims must be in writing.
- B. Any notice to or demand upon the Contractor shall be sufficiently given if delivered at the office of the Contractor stated on the signature page of the Agreement (or at such other office as the Contractor may from time to time designate in writing to the Owner), or if deposited in the United States mail in a sealed, postage-prepaid envelope, or delivered with charges prepaid to any telegraph company for transmission, in each case addressed to such office.
- C. All papers required to be delivered to the Owner shall, unless otherwise specified in writing to the Contractor, be delivered to the Department of Planning and Development, 444 Westminster Street, Providence, Rhode Island 02903, and any notice to or demand upon the Owner shall be sufficiently given if so delivered, or if deposited in the United States mail in a sealed, postage-prepaid envelope, or delivered with charges prepaid to any telegraph company for transmission to said Owner at such address, or to such other representatives of the Owner or to such other address as the Owner may subsequently specify in writing to the Contractor for such purpose.
- D. Any such notice shall be deemed to have been given as of the time of actual delivery or (in the case of mailing) when the same should have been received in due course of post, or in the case of telegrams, at the time of actual receipt, as the case may be.

306. SIGNS

Signs shall be in accordance with the Manual on Uniform Traffic Control Devices, latest edition, with all revisions.

307. PARTIAL USE OF SITE IMPROVEMENTS

The Owner, at its election, may give notice to the Contractor and place in use those sections of the improvements which have been completed, inspected and can be accepted as complying with the Technical Specifications and if in its opinion, each such section is reasonably safe, fit and convenient for the use and accommodation for which it was intended, provided:

- A. The use of such sections of the improvements shall in no way impede the completion of the remainder of the work by the Contractor.
- B. The Contractor shall not be responsible for any damages or maintenance costs due directly to the use of such sections.
- C. The use of such sections shall in no way relieve the Contractor of his liability due to having used defective materials or to poor workmanship.

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- D. The period of guarantee stipulated under GENERAL CONDITIONS PART 1, Section 133, shall not begin to run until the date of the final acceptance of all work which the Contractor is required to construct under this Contract.

308. WORK BY OTHERS

The Contractor will consult and cooperate with the utility companies to permit their work to proceed coincidentally with the work under this contract so as not to delay completion of the project.

309. CONTRACT DOCUMENTS AND DRAWINGS

The Owner will furnish the Contractor with three (3) paper copies and a CD/DVD containing the Contract Documents, Plans and Addenda without charge.

310. DISPOSAL OF SALVAGED MATERIALS

- A. All salvaged material such as granite curbing; manhole frames and covers; catch basin frames, grates, covers and traps; etc., not required to be installed in the work shall be removed and transported to the City of Providence, Department of Public Works storage yards located in the vicinity of 700 Allens Avenue, Providence, Rhode Island 02905.
- B. All salvaged materials that are part of the existing water distribution system of the City of Providence Water Supply Board shall be removed and transported to the Water Supply Board Headquarters which are located at 552 Academy Avenue, Providence, Rhode Island.
- C. The above work shall be accomplished at no additional expense to the Owner but the cost of the work shall be included in the submitted unit price for the applicable items of work.

The Contractor shall be responsible for arranging salvaged materials delivery and obtaining signed receipt(s) from responsible personnel at the above agencies listing material types and quantities salvaged and delivered. Copies of receipt(s) shall be provided said agencies and the Local Public Agency on the date of delivery.

311. PROVISION FOR FLOW OF PRESENT DRAINAGE

Provision for the flow of all sewers, drains and watercourses that are met or altered during construction shall be provided by the Contractor and all the connections shall be restored without extra charge. All offensive matter shall be removed immediately with such precautions as may be directed. If required, the Contractor shall install temporary bypass connections for surface or pipe drainage facilities to provide uninterrupted or continuous service during the work of construction.

312. WORK TO BE ACCOMPLISHED IN ACCORDANCE WITH THE DRAWINGS AND TECHNICAL SPECIFICATIONS

The work, during its progress and at its completion, shall conform to the lines and grades shown on the Drawings and to the directions given by the Engineer from time to time, subject to such modifications or additions as they shall determine to be necessary during the execution of the work; and in no case, will any work be paid for in excess of such requirements. The work shall also be accomplished in accordance with the date provided in Section 302, hereof.

313. CONTRACTOR TO CHECK DIMENSIONS AND SCHEDULES

The Contractor will be required to check all dimensions and quantities shown on the Drawings or schedules given to him by the Engineer, and shall notify the Engineer of all errors therein which he may discover by examining and checking them. The Contractor shall not take advantage of any error or omissions in these Technical Specifications, Drawings or schedules. The Engineer will furnish all instructions should such errors or omissions be discovered, and the Contractor shall carry out such instructions as if originally specified.

314. PROTECTION OF TREES

The Contractor shall take special care to preserve and protect from injury all trees and other plant material to remain along the lines of construction. No such trees or plant material shall be removed or cut down, trimmed or otherwise cut without permission from the Engineer. Failure to comply may result in a fine by the City Forester.

315. REMOVAL OF WATER AND PROTECTION FROM FLOODING

The Contractor shall construct and maintain, at no additional expense to the Owner, all pumps, drains, well points or any other facility for the control and collection of groundwater and/or surface water and provide all pumps and piping for the removal of water from the trenches and excavations so that all trenches and excavations may be kept, at all times, free from water and so that all construction work may be performed in the dry. Any damage resulting from the failure of the dewatering operations of the Contractor and any damage resulting from the failure of the Contractor to maintain the areas of all work in a suitable dry condition, shall be repaired by the Contractor as directed by the Engineer, at no additional expense to the Owner. The Contractor's pumping and dewatering operations shall be carried out in such a manner as to prevent damage to existing structures and utilities and the contract work, and so that no loss of ground will result from these operations. Precautions shall be taken to protect new and existing work from flooding during storms or from other causes. Pumping shall be continuous where directed by the Engineer, to protect the work and/or maintain satisfactory progress. All pipe lines or structures not stable against uplift during construction or prior to completion shall be thoroughly braced or otherwise protected. Water from the trenches, excavations and drainage operations shall be disposed of in such a manner as will neither cause public nuisance, nor cause injury to public health nor to public or private property nor to the work completed, nor to the work in progress. No extra payment will be made for the removal of water, protection from flooding, drainage work, diversion of existing water courses and such other work; but compensation therefor shall be considered as having been included in the prices stipulated for the appropriate items of work as listed in the Bid.

316. HURRICANE PROTECTION

Should hurricane warnings be issued, the Contractor shall take every practicable precaution to minimize danger to persons, to the work and to adjacent property. These precautions shall include closing all openings, removing all loose materials, tools and/or equipment from exposed locations, and removing or securing scaffolding and other temporary work.

317. FIRST AID TO INJURED

The Contractor shall keep in his office, ready for immediate use, all articles necessary for giving first aid to injured employees. He shall also provide arrangements for the immediate removal and hospital treatment of any employee injured on the work who may require the same.

318. CONFORMANCE WITH DIRECTIONS

The Engineer may make alterations in the line, grade, plan, form, dimensions or materials of the work, or any part thereof, either before or after the commencement of construction. If such

alterations diminish the quantity included in any item of work to be done and paid for at a Unit Price, the Contractor shall have no claim for damages or for anticipated profits and the work that may thus be dispensed with. If they increase the quantity included in any such item, such increase shall be paid for at the stipulated price, but no such alteration shall increase shall be paid for at the stipulated price, but no such alteration shall be made without the consent of the Owner.

319. PROTECTION AGAINST HIGH WATER AND STORM

- A. The Contractor shall take all precautions to prevent damage to the work or equipment by high waters or by storms. The Engineer may prohibit the carrying out of any work at any time when, in his judgment, high waters or storm conditions are unfavorable or not suitable, or at any time, regardless of the weather, when proper precautions are not being taken to safeguard previously constructed work or work in progress.
- B. In case of damage caused by the failure of the Contractor to take adequate precautions, the Contractor shall repair or replace equipment damaged and shall make such repairs or rebuild such parts of the damaged work, as the Engineer may require, at no additional expense to the Owner.

320. SEQUENCE OF WORK

- A. The Contractor shall be required to prosecute his work in accordance with a schedule prepared by him in advance in accordance with additional requirements specified herein and approved by the Engineer. This schedule shall state the methods and shall forecast the times for doing each portion of the work. Before beginning any portion of the work, the Contractor shall give the Engineer advance notice and ample time for making the necessary preparations.

321. COMPETENT HELP TO BE EMPLOYED

The Contractor shall employ experienced foremen, craftsmen and other workmen competent in the work in, which they are to be engaged, and whenever the Engineer shall notify the Contractor in writing that any person employed on the project is, in his opinion, incompetent, unfaithful, disorderly, or otherwise unsatisfactory, or not employed in accordance with 'the provisions of this contract, such person shall be discharged from the project and shall not be again employed on it.

322. STREETS AND SIDEWALKS TO BE KEPT OPEN

- A. The Contractor shall at all times keep the streets, highways, roads, private walks and sidewalks in which he may be at work, open for pedestrian and vehicular traffic at his own expense, unless otherwise authorized by the Engineer in writing. If, in the opinion of the Engineer, the interest of abutters and public requires it, the Contractor shall bridge or construct plank crossings over the trenches at street crossings, roads, or private ways, or provide such temporary means of crossing and guarding as shall be acceptable to the Engineer. The Contractor shall conduct his work for this objective in such manner as the Engineer may direct from time to time. No sidewalk shall be obstructed where it is possible to avoid it. The closing of any traffic lanes shall be done only with the approval of the Providence Traffic Engineering Department.
- B. The Contractor shall provide at his own expense, all necessary fire crossings at principal intersections or ways usually traveled by fire apparatus.

323. LIGHTS, BARRIERS, WATCHMEN AND INDEMNITY

- A. The Contractor shall put up and maintain such barriers, lighting and warning lights, danger warning signals and signs that will prevent accidents during the construction work and protect the work and insure the safety of personnel and the public at all times and places, and the Contractor shall indemnify and protect the Owner and the Engineer in every respect from any injury or damage whatsoever caused by any act or neglect of the Contractor or his subcontractors, or their servants or agents.
- B. In addition to the above, when and as needed, or when required by the Engineer, the Contractor shall post signs and employ watchmen for excluding at all times unauthorized persons from the work, for which the Contractor will not be paid additional compensation.
- C. The Contractor shall be responsible for excluding at all times from lands within easement areas, all persons not directly connected with the work or authorized by the Owner to be in the work areas.

324. TRAFFIC CONTROL

- A. Approval of any street closure, lane closure, sidewalk closure or detour must be coordinated with City of Providence Traffic Engineer before it is put into operation. All proper Traffic Engineering permits must be approved prior to work starting.
- B. The Contractor shall make himself aware of all City regulations governing construction and their effect on vehicular and pedestrian traffic.
- C. Whenever necessary, or whenever directed by the Engineer, the Contractor shall employ traffic control devices to insure a safe, orderly routing of traffic around or across the work. No separate payment shall be made for this work, but compensation, therefore, shall be considered as having been included in the prices stipulated for the appropriate items of work as listed in the bid.
- D. Where deemed necessary by the Engineer, supplementary traffic control shall be provided by off-duty, City of Providence Police Officers.
- E. The Contractor shall request for use of off-duty, City of Providence Police Officers for supplementary traffic control in accordance with the unit price for this work submitted as part of the Bid. Invoices shall be billed directly to the Owner.
- F. The Contractor shall be solely responsible for the safe passage of traffic and shall indemnify and protect the Owner and the Engineer in every respect from any injury or damage whatsoever caused by any act or neglect of the Contractor or their Subcontractors, or their servants or agents.

325. NIGHT WORK

- A. Night work, or work on Saturdays, Sundays and legal holidays may be required in order to perform certain construction operations without causing excessive interference with or disruption of traffic flow, water service, etc.
- B. Night work or work on Saturdays, Sundays and legal holidays shall be done only with the approval of the Providence Traffic Engineering Department.
- C. All water work operations requiring the closing or shutdown of existing water service facilities will be conducted at those times as directed by the Engineer that will minimize the interference with, or disruption of service.

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- D. All trenching, pipe laying, paving operations, etc., shall be conducted at times as directed by the Engineer that will minimize the interference with normal and emergency vehicular traffic flow.
 - E. No work shall be scheduled by the Contractor on nights, Saturdays, Sundays or legal holidays unless directed or approved in writing by the Owner. The Contractor will receive no extra payment for work at these times and compensation shall be considered as having been included in the prices stipulated for the appropriate items of work as listed in the Proposal.
 - F. Night work shall not be permitted on Thursday, Friday or Saturday nights in accordance with the Traffic Management Plans included in Appendix A.
 - G. All necessary lighting, safety precautions, and other requirements for night, Saturday, Sunday and holiday work shall be provided at no extra cost to the Owner.
 - H. The assumption is made that all work outside of milling, paving and pavement marking activity will be able to occur during daylight hours.

326. BUS LINE INTERFERENCE

Whenever it may be necessary to interfere with any bus lines, notice shall be given to the Rhode Island Public Transit Authority (RIPTA) owning the same, and reasonable time shall be given to said corporation to arrange the schedule for operation of same, as may be necessary. RIPTA shall be notified for any work impacting their bus routes or adjacent (within 200 to their shelters from the approach side and 100 feet to the exit side).

327. WORK IN COLD WEATHER

- A. The Engineer will determine when conditions are unfavorable for work and may order the work or any portion of it suspended whenever, in his opinion, the conditions are not such as will insure first class work. In general, work shall be prosecuted throughout the year and the Contractor will be expected to keep work going and employment of labor as continuous as possible.
- B. All methods and materials used for concrete or masonry work in cold weather shall be subject to the approval of the Engineer. The Contractor shall take the necessary precautions to protect the work from damage and for removing ice and frost from materials, including heating the water, sand and coarse aggregate and for protecting the newly laid masonry. This protection shall also include the covering of work with tarpaulins and the heating by salamanders or steam pipes or other suitable method. The Contractor will receive no extra payment or any labor, apparatus, tools or materials necessary to comply with the above requirements, but compensation shall be considered to be included in the prices stipulated for the appropriate items of work as listed in the bid.
- C. In the event of temporary suspension of work, or during inclement weather, or whenever the Engineer shall direct, the Contractor will, and will cause his Subcontractors to protect carefully his and their work and materials against damage or injury from the weather. If in the opinion of the Engineer, any work or materials shall have been damaged or injured by reason of failure on the part of the Contractor or any of his Subcontractors to so protect his work, such materials shall be removed and replaced at the expense of the Contractor.
- D. In the event that the project is shut down during the winter months, the Contractor will be required to install, maintain and remove such temporary materials as may be required to protect completed work and to provide safe vehicular and pedestrian

access. No separate payment shall be made to the Contractor for such temporary materials and labor.

328. BLASTING AND EXPLOSIVES

- A. Blasting or use of explosives will not be permitted on this project.
- B. Rock, boulders, ledge, concrete foundations, etc., shall be removed by the use of pneumatic tools; drilling and splitting mechanically or by hand; or by other means not requiring the use of explosives.

329. RESERVED MATERIALS

- A. Materials found on the work suitable for any special use shall be reserved for that purpose without charge to the Owner.
- B. Where permitted, the Contractor may use in the various parts of the work, without charge to the Owner, therefore, any materials taken from the excavations.

330. DISPOSAL OF MATERIALS. ACCESS TO HYDRANTS AND GATES AND MATERIALS TRIMMED- UP FOR CONVENIENCE OF PUBLIC TRAVEL OR ADJOINING TENANTS

The materials from the trench and excavations and those used in the construction of the work shall be deposited in such a manner so they will not endanger persons or the work, and so that free access may be had at any time to all hydrants and gates in the vicinity of the work. The materials shall be kept trimmed-up so as to be of as little inconvenience as possible to the public travel or the adjoining tenants. All excavated materials not approved for backfill and fill, all surplus material and all rock resulting from the excavations shall be removed and satisfactorily disposed of off the site by the Contractor at no additional expense to the Owner.

331. LENGTH OF TRENCH TO BE OPENED, MAINTAINING PREMISES FREE FROM OBSTRUCTIONS, CROSSOVERS, DIRECTIONAL SIGNS AND LIGHTS

- A. The length of trench opened at any time from point where ground is being broken to completed backfill and also the amount of space in streets or public and private lands occupied by equipment, trench and supplies, shall not exceed the length or space considered reasonably necessary and expedient by the Engineer. In determining the length of open trench or spaces for equipment, materials, supplies and other necessities, the Engineer will consider the nature of the construction and equipment being used, inconvenience to the public or to private parties, possible dangers and other proper matters. All work must be constructed with a minimum of inconvenience and danger to the public and all other parties concerned.
- B. Whenever any trench obstructs pedestrian and vehicular traffic in or to any, public street, private driveway or property entrance, or on private property, the Contractor shall take such means as may be necessary to maintain pedestrian and vehicular traffic and access. Until such time as the work may have attained sufficient strength to support backfill, or if for any other reason it is not expedient to backfill the trench immediately the Contractor shall construct and maintain suitable plank crossings and bridges to carry essential traffic in or to the street, driveway or property in question as specified or directed.
- C. Suitable signs, lights and such required items to direct traffic shall be furnished and maintained by the Contractor.
- D. The Contractor must keep streets and premises free from unnecessary obstructions, debris and all other materials. The Engineer may, at any time, order all equipment,

materials, surplus from excavations, debris and all other materials lying outside that length of working space promptly removed and should the Contractor fail to remove such material within 24 hours after notice to remove the same, the Engineer may cause any part or all of such materials to be removed by such persons as he may employ, at the Contractor under the contract. In special cases, where public safety urgently demands it, the Engineer may cause such materials to be removed without prior notice.

332. INTERFERENCE WITH EXISTING STRUCTURES

- A. Whenever it may be necessary to cross or interfere with existing culverts, drains, sewers, water pipes or fixtures, guardrails, fences, gas pipes or fixtures, or other structures needing special care, due notice shall be given to the Engineer and to the various public and private agencies or individuals responsible for the utility or structure that is interfered with. Whenever required, all objects shall be strengthened to meet any additional stress that the work herein specified may impose upon it, and any damage caused shall be thoroughly repaired. The entire work shall be the responsibility of the Contractor and the work shall be performed at no additional expense to the Owner.
- B. The Contractor shall be responsible for all broken mains or utilities encountered during the progress of the work and shall repair and be responsible for correcting all damages to existing utilities and structures at no additional expense to the Owner. The Contractor shall contact the proper utility or authority to correct or make any changes due to utility or other obstructions encountered during the work, but the entire responsibility and expense shall be with the Contractor.
- C. All damaged items of work or items required to be removed and replaced due to construction shall be replaced or repaired by the Contractor to the complete satisfaction of the property owners and/or the Engineer at no additional expense to the Owner.

333. MATERIALS

All materials furnished and used in the completed work shall be new, of best quality workmanship and design and recognized as standard in good construction practices. Whenever a specification number or reference is given, the subsequent amendments (if any) shall be included. The standards set forth in the selection of materials and supplies are intended to conform with those standards adopted by the Owner. Preference in manufacture shall be given to adopted standards and the Contractor shall further familiarize himself with the requirements of the Owner when the occasion or choice of materials or supplies so demands.

334. DEFECTIVE MATERIALS, INSPECTION AND TESTING OF MATERIALS FURNISHED, SAMPLES AND ORDERING LISTS

- A. No materials shall be laid or used which are known, or may be found to be in any way defective. Any materials found to be defective at the site of the work or upon installation shall be replaced by the Contractor at his expense. Notice shall be given to the Engineer of any defective or imperfect material. Defective or unfit material found to have been laid shall be removed and replaced by the Contractor with sound and unobjectionable material without additional expense to the Owner.

The Contractor shall also be responsible to compensate the City's Project Management team and police details and materials testing for errors, defective work or damage caused by the Contractor. This will be done by direct invoice to the Contractor or monies deducted through invoices.

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- B. All materials furnished by the Contractor are subject to thorough inspections and tests by the Engineer.
 - C. All ordering lists shall be submitted by the Contractor to the Engineer for approval and shall be approved before the ordering of the materials.

335. SPIRITUOUS LIQUORS

The Contractor shall neither permit nor suffer the introduction or use of spirituous liquors upon the work embraced in this contract.

336. FINISHING AND CLEANING UP

In completing the backfilling of the trenches, etc. the Contractor shall replace all surface material to the satisfaction of the Engineer, and shall then immediately remove all surplus material, and all tools and other property belonging to him, leaving the entire street or surroundings free and clean and in good order, at no additional expense to the Owner. The backfilling and removing of the surplus materials shall follow closely upon the completion of the work. The Contractor shall exercise special care in keeping rights-of-way and private lands, upon which work is to be performed, clean and free of debris at all times and to remove tools and other property belonging to the Contractor when they are not being used.

337. CLEAN-UP AT CONTRACTOR'S EXPENSE

In case the Contractor shall fail or neglect, after backfilling, to promptly remove all surplus materials, tools and other incidentals, or promptly do the required repaving when ordered, the Engineer may, after 24 hours' notice, cause the work to be done and the cost thereof shall be deducted from any monies then or thereafter due the Contractor.

338. RIGHTS OF ACCESS

Nothing herein contained or shown on the Drawings shall be construed as giving the Contractor exclusive occupancy of the work areas involved. The Owner or any other Contractor employed by the Owner, the various utilities companies, Contractors or Subcontractors employed by the Federal, State or Local governmental agencies or other utility firms or agencies involved in the general project or upon public rights-of-way, may enter upon or cross the area of work or occupy portions of it as directed or permitted. When the territory of one contract is the convenient means of access to the other, each Contractor shall arrange his work in such manner as to permit such access to the other and prevent unnecessary delay to the work as a whole.

339. LOADING

No part of the structures involved in this contract shall be loaded during construction with a load greater than is calculated to carry with safety. Should any accidents or damage occur through any violation of this requirement, the Contractor will be held responsible under his Contract and bond.

340. EXISTING UTILITIES OR CONNECTIONS

- A. The Location of existing underground pipes, conduits and structures, as may be shown in the project drawings, has been collected from the best available sources and the Engineer and the Owner together with its agents does not guarantee, expressly or by implication, the data and information in connection with underground pipes, conduits, structures, electric and telephone ducts and lines, vaults and such other parts as to their completeness nor their locations as indicated. The Contractor shall assume that there are existing water, gas, electric, and other utility connections to each and every building en route, whether they appear on the Drawings or not. Any expense and/or delay occasioned by utilities and structures or damage thereto,

including those not shown, shall be the responsibility of the Contractor, at no additional expense to the Owner.

- B. Before proceeding with construction operations, the Contractor shall make such supplemental investigations, including exploratory excavations by hand digging, as he deems necessary to uncover and determine the exact locations of utilities and structures and shall have no claims for damages due to encountering subsurface structures or utilities in locations other than shown on the Drawings, or which are made known to the Contractor prior to construction operations. The Contractor shall be responsible and liable for all damages to the existing utilities and structures.

341. COMPLETENESS OF WORK

In addition to the specified or described portions, all other work and all other materials, equipment and labor of whatever description which are necessary or required to complete the work, or for carrying out the full intent of the Drawings and Technical Specifications, as interpreted by the Engineer, such work, labor, materials, and equipment shall be provided by the Contractor, and payment therefor shall be considered as having been included in the prices stipulated for the appropriate items of work as listed in the Bid.

342. VEHICLE CROSSINGS

As required or directed by the Engineer, the Contractor shall install in selected locations suitable plank, timber or steel crossings substantially bound and reinforced to sustain vehicular traffic across trench or other excavations. Crossings shall be constructed with side and usable approaches for use by the traveling public, private property owners or firefighting equipment. No separate payment will be made for this work, but the cost shall be included in the prices stipulated for the appropriate items of work as listed in the Bid.

343. CLEANING FINISHED WORK

After the work is completed, the sewers, manholes, and structures shall be carefully cleaned free of dirt, broken masonry, mortar, construction and other debris and left in first class condition ready for use. All temporary or excess materials shall be disposed of and the work left broom-clean to the satisfaction of the Engineer.

344. DUST CONTROL

At all times during the progress of the work under this contract and when directed, the Contractor shall furnish and apply calcium chloride at the sites of the work over the surfaces of all earth piles along excavations, earth stockpiles and surfaces of refilled trenches, and as directed by the Engineer. Payment will be made for furnishing and applying calcium chloride for dust control in accordance with the unit price for this work submitted as part of the Bid.

345. CARE OF THE WORK

The Contractor shall be responsible for all damages to persons or property that occur as a result of his fault or negligence in connection with the prosecution of the work and shall be responsible for the proper care and protection of all material delivered and work performed until completion and final acceptance, whether or not the same has been covered by partial payments made by the Owner.

346. INDEMNITY

- A. The Contractor will indemnify and hold harmless the Owner and their agents and employees from and against all claims, damages, losses and expenses including attorney's fees arising out of or resulting from the performance of the Work, provided

that any such claim, damage, loss or expense; a) Is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the Work itself) including the loss of use resulting therefrom, and; b) Is caused in whole or in part by any negligent act or omission of the Contractor, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by a party indemnified hereunder.

- B. In any and all claims against the Owner or any of their agents or employees by any employee of the Contractor, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the indemnification obligation under GENERAL CONDITIONS PART I, Section 130 shall not be limited in any way by any limitation on the amount or type of damages, compensation acts, disability benefit acts or other employee benefit acts.
- C. The obligation of the Contractor under paragraph GENERAL CONDITIONS PART I, Section 130 shall not extend to the liability of the Agency, their agents or employees arising out of a) the preparation or approval of maps, Drawings, opinions, reports, surveys, Change Orders, designs or Specifications or; b) the giving of or the failure to give directions or Instructions by the Agency their agents or employees provided such giving or failure to give is the primary cause of injury or damage.

347. CONSTRUCTION SCHEDULE

- A. In addition to the other requirements specified and prior to issuance of the Notice to Proceed, the Contractor shall confer with the Owner and the Engineer for the purpose of drafting a construction schedule satisfactory to the Owner and the Engineer which is to include all the work of this contract. The Contractor shall perform the work of this contract to conform to the construction schedule as approved by the Owner, except the Owner reserves the right to amend and alter the construction schedule, as approved, at any time, in a manner which it deems to be in the best interests of the Owner to do so.
- B. The Contractor shall arrange his work under this Contract to conform with the construction schedule as it shall be revised biweekly by the Contractor, at no additional expense to the Owner. The Contractor shall notify the Engineer immediately of any circumstances which may affect the performance of the work in accordance with the current construction schedule. Failure to maintain schedule will delay in processing pay applications.

348. OTHER WORK

The Owner reserves the right to do any other work which may connect with, or become a part of, or be adjacent to the work embraced by this Contract, at any time, by contract work or otherwise. The Contractor shall not interfere with or obstruct in any way the work of such other persons as the Owner may employ, and shall execute his own work in such manner as to aid in the executing of work by others as may, be required. No backfilling of trenches or excavations will be permitted until such work by the Owner is completed.

349. CHANGES AND MODIFICATIONS

The Owner reserves the right to delete or cancel any item or items or parts thereof as listed in the Bid, without recourse by the Contractor. The Owner also reserves the right to add to any item or part thereof as listed in the Bid. The compensation to be paid the Contractor for such additional extension, appurtenance or item shall be made under the applicable items as listed in the bid. Where no applicable items are provided in the bid for such additional extension, appurtenance or item, the compensation to be paid the Contractor shall be as set forth under GENERAL

CONDITIONS, PART 1, Section 109. No further mobilization charges shall be considered for changes or modifications in the work.

350. LAYOUT OF WORK

- A. The Contractor shall provide all materials, labor, equipment, etc., necessary to layout the work and shall be responsible for all lines, grades, elevations, measurements, etc. conforming to the Americans with Disabilities Act.
- B. The Contractor shall employ a Professional Engineer or Land Surveyor, registered in the State of Rhode Island, for establishing all lines, levels, grades, elevations, measurements, dimensions, locations, etc. The Engineer or Land Surveyor proposed for this work must be approved by the Engineer and the Owner. In addition, as part of the layout of work, he shall be placed at the disposal of the Engineer and Owner, from time to time as required, for checking purposes.
- C. The Contractor shall establish control points, at the direction of the Engineer suitable for the layout of all utility work, both public and private.
- D. No separate payment will be made for this work, but the cost shall be included in the prices stipulated for the appropriate items of work as listed in the Bid.
- E. To assist in the layout of the work, survey data prepared by the Engineer, which has been submitted to the Owner, will be made available to the Contractor.

351. PROTECTION OF LIVES AND HEALTH

- A. In order to protect the lives and health of his employees under the Contract, the Contractor shall comply with all pertinent provisions of the U.S. Department of Labor, "Williams-Steiger Occupational Safety and Health Act of 1970", and shall maintain an accurate record of all cases of death, occupational disease, and injury requiring medical attention or Causing loss of time from work, arising out of and in the course of employment on work under the contract.
- B. The Contractor alone shall be responsible for the safety, efficiency and adequacy of his plant, appliances and methods, and for any damage which may result from their failure or their improper construction, maintenance or operation.
- C. The Contractor shall be solely responsible for the acts and omissions of his agents, employees and his Subcontractors and their agents and employees and shall hold the Engineer and the Owner harmless and defend the Engineer, and the Owner against damage or claims for damages arising out of injuries to others or property of others which result from said acts or omissions.

352. SUBSURFACE STRUCTURES AND UTILITIES

- A. Available information of the location of existing substructures and utilities has been collected from various sources but the results of the investigations shown on the Drawings are not guaranteed to be accurate complete.
- B. The Contractor shall make all supplemental investigations including exploratory excavations, by hand digging, as he seems necessary to uncover and determine the exact locations of utilities and structures and shall have no claims for damages due to encountering subsurface structures or utilities in locations other than shown on the Drawings, or which are made known to the Contractor prior to construction operations.

353. CONTRACTOR'S RESPONSIBILITY FOR DAMAGED STORM DRAINS:

The Contractor shall use care when working within or in the vicinity of existing drainage structures. Any drainage structures or pipes damaged while carrying out any work on this contract shall be the Contractor's responsibility. Any drainage structures or pipes damaged by the Contractor while carrying out this Contract shall be replaced or repaired by the Contractor to the satisfaction of the Owner at no additional charge to the Owner.

354. PROTECTION OF CONSTRUCTION FEATURES

The Contractor shall take adequate precautions to protect existing sidewalks, curbs, pavements, utilities, building vaults, adjoining property and such incidentals and to avoid damage thereto. The Contractor shall completely repair the damage caused by his operations at no additional expense to the Owner.

355. TEST PITS

At locations where new utilities are to connect to existing utilities, the Contractor shall not proceed with the work until a test pit has been dug to determine existing conditions such as inverts of sanitary or storm sewers; outside diameter of water pipes so that sleeves or couplings can be correctly purchased, etc.

356. LOCATION OF WORK

The Contractor's attention is directed to the fact that work under this contract is performed strictly within the Wards, within the City of Providence.

357. PRE-CONSTRUCTION CONFERENCE

- A. Within ten (10) days after award of Contract, a preconstruction conference shall be held between the Owner, the Contractor, the Engineer and other City of Providence agencies having jurisdiction over the project area.
- B. No work of any nature shall be performed by the Contractor until the pre-construction conference has been held, and all required permits have been obtained.

358. NOTIFICATION PRIOR TO CONSTRUCTION

Not less than ten (10) calendar days prior to the start of any work under this contract the Contractor shall send written notification of his intentions to the following:

DEPARTMENT OF PUBLIC WORKS

700 Allens Avenue
Providence, RI 02905
Leo Perrotta
Director
lperrotta@providenceri.gov
(401) 680-7500

DEPARTMENT OF PLANNING AND DEVELOPMENT

444 Westminster Street
Providence, RI 02903
Robert Azar
Deputy Director
razar@providenceri.gov
(401) 680-8524

RIPTA

705 Elmwood Avenue
Providence, RI 02907
(401) 781-9400

NATIONAL GRID

280 Melrose Street
Providence, RI 02907-2152
Marisa Albanese
Marisa.albanese@nationalgrid.com
(401) 784-7090
Cc: Jim Paulette
Jim.paulette@nationalgrid.com

RIDOT

Two Capitol Hill
Providence, RI 02903
Robert Rocchio,
Chief Engineer
(401) 222-2023
Cc: Mike Sprague
Managing Engineer,
(401) 563-4221

VERIZON

85 High Street
Pawtucket, RI 02865
Peter DeCosta
State Highway Coordinator
(774) 409-3177

COX COMMUNICATIONS

9 J.P. Murphy Hwy.
West Warwick, RI 02893
David Velilla
Right Of Way Agent II
(401) 615-1284

PROVIDENCE WATER SUPPLY BOARD

125 Dupont Drive
Providence, RI 02907
Mr. Peter LePage, Sr., P.E.
Manager of Engineering
plepage@provwater.com
(401) 521-6300 Ext. 7242

DEPARTMENT OF TELECOMMUNICATIONS

1 Communications Place, West Exchange Street
Providence, RI 02903
Carolyn Bourbeau
Director of Telecommunications (401) 243-6000
cbourbeau@providenceri.gov

NARRAGANSETT BAY COMMISSION

1 Service Road
Providence, RI 02905
David Bowens

Engineering Manager
(401) 461-6540
dbowens@narrabay.com
Cc: Margaret Goulet
mgoulet@narrabay.com

This notification shall set forth the Contractor's proposed sequence of construction and shall give the approximate dates of when each street or phase of the work is expected to begin. The sequence of construction shall also state the expected completion dates of each street or phase of the work.

Copies of each notification shall be sent to the Engineering Division, Department of Public Works, 700 Allens Ave., Providence, Rhode Island 02905 (c/o Craig Hochman, chochman@providenceri.gov). The notifications shall reference the Project, include a description of the work to be performed, including street names, and shall indicate when the construction will start. Additionally, the Contractor shall request the name and telephone number of the person or department to be contacted when assistance is required, copies of all replies shall be forwarded to the Supervisor of Engineering, Department of Public Works, 700 Allens Ave., Providence, Rhode Island 02905.

359. NON-INTERFERENCE WITH ADJACENT PROPERTIES

All work under this Contract shall be performed in a manner which will minimize interference with the normal neighborhood operations.

360. FIRE PROTECTION AND PREVENTION

- A. Federal laws (Occupational Safety and Health Act) and all State and municipal rules and regulations with respect to fire prevention, fire-resistant construction and fire protection shall be strictly adhered to and all work and facilities necessary therefore shall be provided and maintained by the Contractor in an approved manner.
- B. All fire protection equipment such as water tanks, hoses, pumps, extinguishers, and other materials and apparatus shall be provided for the protection of the Contract work, temporary work and adjacent property. Trained personnel experienced in the operation of all fire protection equipment and apparatus shall be available on the sites whenever work is in progress and at such other times as may be necessary for the safety of the public and the work.

361. PLANIMETER

For estimating quantities in which the computation of areas by analytic and geometric methods would be comparatively laborious, it is stipulated and agreed that the planimeter shall be considered an instrument of precision adapted to the measurement of such areas.

362. DAILY REPORTS

The Contractor shall submit, on an approved form, daily activity reports for the duration of the project. The reports shall indicate all personnel currently employed on the work including each trade and every Subcontractor; all equipment and whether such equipment was idle for the particular day; a general description of all work accomplished; any authorized extra work (time and material reports shall be submitted on separate forms).

363. OTHER PROHIBITED INTERESTS

No official of the Owner who is authorized in such capacity and on behalf of the Owner to negotiate, make, accept or approve, or to take part in negotiating, making, accepting or approving

any architectural, engineering, inspection, construction or material supply contract or any subcontract in connection with the construction of the project, shall become directly or indirectly interested personally in this Contract or in any part hereof. No officer, employee, architect, attorney, engineer or inspector of or for the Owner who is authorized in such capacity and on behalf of the Owner to exercise any legislative, executive, supervisory or other similar functions in connection with the construction of the project, shall become directly or indirectly interested personally in this contract or in any part thereof, any material supply contract, subcontract, insurance contract, or any other contract pertaining to the project.

364. WATER

The Contractor shall provide and maintain at his own expense an adequate supply of water for his use for construction and domestic consumption, and to install and maintain necessary supply connections and piping for same, but only at such locations and in such manner as may be approved by the Owner. All water shall be carefully conserved. Before final acceptance, temporary connections and piping installed by the Contractor shall be removed in a manner satisfactory to the Owner.

365. ELECTRICITY

All electric current required by the Contractor shall be furnished at his own expense and all temporary connections for electricity shall be subject to approval of the Engineer. All temporary lines shall be furnished, installed, connected and maintained by the Contractor in a workmanlike manner satisfactory to the Engineer and shall be removed by the Contractor in like manner at his own expense prior to completion of the construction.

366. DRAWINGS

- A. The Contractor shall use the dimensions of the Drawings as shown. Measurements shall not be by scale. Full size details have preference over scale details, and large-scale details and photographs have preference over small.
- B. If discrepancies exist between Drawings and Technical Specifications, or if necessary measurements and work specified or shown is obviously incorrect or impossible to execute, and/or if figures fail to check, the Contractor shall bring these facts to the attention of the Engineer. The decision of the Engineer as to the intention of the Contract Documents shall be final. No work shall start until all such problems have been resolved.

367. PERMITS

CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS

- A. Providence Department of Public Works (700 Allens Avenue)
 - 1. Physical Alteration Permit
 - 2. Sewer Permit
 - 3. Road Opening Permit
- B. Providence Traffic Engineering Department (60 Ernest Street)
 - 1. Providence Traffic Engineering permits are required for Posting Emergency No Parking Signs at work zones prior to the beginning of the workday, detour permits and lane/sidewalk closing permits. Traffic

Engineering permits are required when work zones occupy public sidewalk or road or a detour is required.

2. The Contractor is responsible for the scheduling of the permit applications as described on the Traffic Engineering website (<http://www.providenceri.gov/public-works/traffic-engineering>). Permit applications shall be sent to Providence Traffic Engineering at least two business days in advance of the requested start date on the permit. The Contractor shall obtain approval from the PDPW or their agent as to the number and time frame of Posting Emergency No Parking Signs prior to scheduling. Failure to obtain traffic engineering permits may result in shutting down the job site and other fines. There will be no compensation paid to the Contractor for job shut down relating to the failure to obtain permits and other fines.
 3. The Traffic Engineering permit fees for this project shall be waived.
- C. Narragansett Bay Commission (NBC) (1 Service Road)
1. NBC Regulations: Section 4.5 Sewer Alteration Permit
 2. Any person(s) planning to initiate road construction which will modify or expose structures such as, but not limited to, manholes, catch basins, and sewers owned by the NBC must obtain a sewer alteration permit before performing any alterations to the NBC's facilities. The sewer alteration permit application must be obtained from the NBC and the applicant shall submit the completed application and any required information prior to issuance of a sewer alteration permit. The sewer alteration permit application information required includes, but is not limited to, the following:
 - i. Contact name, company name, address and phone number.
 - ii. Description of the project along with a sketch or map identifying the location of the project and a drawing which indicates at least two points of reference with distance measurements corresponding to each structure or connection to be altered.
 - iii. Method(s) which will be utilized to prevent debris from entering NBC sewers.

368. MISCELLANEOUS NOTICES

- A. SIDEWALKS - CURING - All sections prone to pedestrian / vehicular movement shall be protected, as necessary, until proper curing has occurred. All vandalized sections shall be replaced at contractor's expense.
- B. The Providence Department of Public Works does not allow pouring of cement concrete sidewalks between November 17 and April 15 of the next calendar year.
- C. SIDEWALKS - SAWCUTTING - Cutting shall take place at existing control and expansion joints only.

369. COORDINATION WITH OTHER CONTRACTS

The Contractor is hereby notified that multiple construction projects may be ongoing throughout the construction period. The Contractor shall attend bi-weekly meetings or as required by the Owner, at a location to be determined, to assure cooperation between all involved parties.

Contracts that may require coordination include, but are not limited to:

1. Providence Water Main Replacement and Lining
2. National Grid Main Replacement
3. Providence Complete Streets Projects
4. RIPTA Downtown Transit Corridor
5. Roger Williams Park Gateway Project

370. JOB SITE POSTERS

The contractor must comply with US Department of Labor requirements for job site posters per Exhibit A at the end of this Section.

371. LIST OF CONTRACT DRAWINGS

Broad Street Improvements

Cover Sheet
Standard Plan Symbols & Standard Legend
Standard Notes - 1
Standard Notes - 2
Job Specific Plan Symbols, Legend & Notes
Typical Sections
Key Plan
General Plan Nos. 1-14
Signing and Striping Plan Nos. 1-14
Traffic Signal Plan Nos. 1-11
Details Sheet Nos. 1-3
Maintenance and Protection of Traffic Plan Nos. 1-2

Broad Street Improvements– Resurfacing

Cover Sheet
Standard Plan Symbols & Standard Legend
Standard Notes - 1
Standard Notes - 2
Job Specific Plan Symbols, Legend & Notes
Typical Sections
Key Plan
Resurfacing Plan Nos. 1-14
Details Sheet Nos. 1-2
Maintenance and Protection of Traffic Plan Nos. 1-2

All work under this Contract shall be done in conformance with the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, and the State and Federal Special Provisions included in the contract documents. Standard Details for this project are City of Providence Standard Details, 2017 Edition, with all revisions. Refer to RIDOT Standard Details, 2019 Edition, with all revisions, for all other standard details.

372. UTILITY AND MUNICIPAL NOTIFICATION AND COORDINATION

- A. The Contractor shall contact DIG SAFE at 1-888-DIG SAFE (1-888-344-7233) prior to construction.
- B. The Contractor shall coordinate with the utility Companies and necessary municipal offices prior to the start of work.
- C. Refer to SPECIAL CONDITIONS, Section 358 for utility company contacts.

373. SHOP DRAWINGS

The Contractor must develop and submit shop drawings, product data, and/or catalogue cut-sheets in accordance with GENERAL CONDITIONS PART 1, Section 117. At a minimum, shop drawings shall be submitted for:

Item Code 206.9901 – Compost Filter Sock Inlet Protection
Item Code 906.9901 – Traffic Separator Curb with Flex Post
Item Code 942.0200 – Detectable Warning Panel Standard 48.1.0
Item Code T18.9901 – Flexible Delineator Post
Item Code T20.9901 – Green Friction High Visibility Surface
Traffic signal equipment

374. SEQUENCE OF CONSTRUCTION/MAINTENANCE AND MOVEMENT OF TRAFFIC/WORK RESTRICTIONS

- A. The Contractor is required to clean any catch basins (pay item code 708.9041) before installing silt sacks to ensure that the silt sack functions correctly.
- B. The Contractor shall note the allowable work durations for specific roadways. See Appendix A – Transportation Management Plans for more information.
- C. Action Required by Contractor:
 - 1. Approval of the work sequence and time schedule is required before the start of any construction or other work associated with this contract. The proposed construction and time schedule must consider and address the safe vehicle passage through the project.
 - 2. In addition to the requirements of the Standard Specifications for Road and Bridge Construction and the Special Requirements of other sections of these contract documents, the Contractor must adhere to the following requirements:
 - 3. The Contractor is advised that the signs and other traffic control devices shown on the Plans are minimum requirements, and it is the Contractor's responsibility to supplement these if necessary to ensure the public's safety. All Maintenance and Protection of Traffic devices shall be in place and approved by the City of Providence Division of Traffic Engineering prior to starting construction. All Maintenance and Protection of Traffic shall conform with the latest edition and revisions of the Manual on Uniform Traffic Control Devices (MUTCD). The Contractor must submit for approval a traffic control plan when implementing any changes to the details shown on the plans or when providing traffic control for situations differing from those shown on the plans, including subcontractor work.

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4. Any deviations from the requirements stated here or detailed in the plans, as well as any deviation from the approved construction sequence and time schedule, must be submitted to the City of Providence Division of Traffic Engineering in writing for approval a minimum of 24 hours prior to implementation.
 5. The construction operations of this project must be coordinated with the local community public safety officials. It is the Contractor's responsibility to coordinate the construction operations of this project with the local public safety officials. In case of an emergency, the Contractor will be required to move equipment to allow the passage of emergency vehicles. The safety of the residents of the area must be considered at all times.
 6. The Contractor shall work continuously to restore traffic signal operation to its intended purpose when replacing the traffic signal equipment. A police detail is required to direct traffic at the intersection at all times the traffic signal is inoperative. At no time shall the Contractor leave the site before restoring full traffic signal operations or with the approval of the Engineer provide traffic control as directed by the Engineer.
 7. The Contractor shall maintain one full travel lane (11 foot minimum) in each direction of travel at all times unless otherwise approved by the City of Providence Division of Traffic Engineering. Safe access and egress to side streets and all driveways must be maintained at all times unless otherwise directed by the City of Providence Division of Traffic Engineering. The Contractor shall open the roadway to all parking and vehicle and pedestrian traffic at the end of each work day/night.
 8. Detours are permitted only upon written approval from the City of Providence Division of Traffic Engineering. The Contractor must submit a detour plan with written approval from the City of Providence Traffic Engineer.
 9. The Contractor shall be responsible for maintaining appropriate construction related signing at all times. Any signs not appropriate for the lane closures, speed limits or any construction activity taking place at any given time shall be removed or covered to the satisfaction of the City of Providence Division of Traffic Engineering.

D. The following definitions will apply:

1. Travel Lane - A travel lane must be at least 11 feet wide and must be paved with a hard smooth surface. This surface may be existing pavement, existing base course, or new pavement. Gravel or dirt surfaces will not be acceptable.
2. Pedestrian Way - A pedestrian way must have an unobstructed clear width of five feet (per ADA requirements) and must have a hard, smooth surface, and must conform to all handicapped accessibility requirements. The surface may be existing pavement, new pavement, or plywood. All wooden walkways shall meet the Engineer's approval for surface smoothness and deflection. If there is a drop-off in excess of six inches from the edge of the pedestrian way, a handrail conforming to all applicable standards shall also be provided. There shall be no additional compensation for the provision of Pedestrian Ways; all costs shall be considered incidental to the Contract.

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- E. Pedestrian ways to all building entrances including service entrances must be maintained at all times. The Contractor shall provide temporary access routes/ramps through construction areas to insure this access. The Contractor must provide for pedestrians to safely guide them away from broken and uneven pavement, open excavations, drop-offs, construction operations and other hazards at all times.
 - F. The Contractor shall backfill or place steel plates capable of supporting HS-20 vehicle loading over all trenches and excavations at the end of work each day except when otherwise directed by the City of Providence Division of Traffic Engineering. There shall be no additional compensation for backfilling, re-excavating and/or plating these trenches.
 - G. The Contractor shall install and maintain a Rhode Island Standard 26.2.0 barricade at each location where adjustments to grade and/or reconstruction of drainage and utility structures have been made until resurfacing work has been performed. Other types of protective devices may be used if approved by the City of Providence Division of Traffic Engineering.

375. LEGAL RELATIONS AND RESPONSIBILITIES TO PUBLIC UTILITIES AND FACILITIES

- A. In those areas where the Contractor's operations are adjacent or proximate to underground utilities such as gas, electric, water, telephone, fire alarm, sanitary and storm sewers, the provisions of Section 105.06 of the Rhode Island Standard Specifications for Road and Bridge Construction shall be followed.
- B. During the process of the work, the Contractor shall cooperate with the Owners of the utilities and permit their representatives access to the work to determine if their utilities are being endangered in any way.

376. WORK ADJACENT TO GAS LINES, WATER LINES AND TELEPHONE DUCTS

Extreme care, particularly when installing traffic signal poles, foundations, conduit, manholes, catch basins, drain pipes and handholes shall be exercised during construction in the vicinity of the gas lines, water lines and telephone ducts. Complete coordination with the utility companies shall be maintained.

377. BUILDING UTILITY SERVICES

The Contractor is to assume building services connections (electric, gas, telephone, water, and sanitary) are present to all buildings. Locations are to be checked with appropriate utility companies. The Contractor shall follow the Dig Safe process in accordance with the State of Rhode Island specifications for road and bridge construction.

378. DAMAGE TO EXISTING UTILITIES

The Contractor shall check and verify the exact location of all existing utilities and service connections with Dig Safe. Any damage to the utilities, which are detailed by Dig Safe, shall be the Contractor's responsibility. Cost to repair such damage shall be borne by the Contractor.

379. LOCAL POLICE COMPENSATION

It will be the responsibility of the Contractor to retain the services of local police for traffic control and protection for this project, in consultation with the project manager, per Special Provision 999.0001.

380. PARKING SPACE(S) LOSS

With work requires the loss of any parking space (s), the Contractor will be responsible for obtaining temporary "No Parking" signs from the City of Providence Traffic Engineer and the posting of said signs. The Contractor shall also be responsible for the removal of said temporary signs when the parking space(s) is opened.

381. STORAGE OF CONSTRUCTION MATERIALS AND/OR EQUIPMENT

In addition to the requirements of Division I Part 100 Section 106.06 "Storage of Materials" of the Rhode Island Standard Specification for Road and Bridge Construction 2004 Edition, the Contractor shall submit for approval the location of Material & Equipment Storage to the Engineer. No materials shall be stockpiled in the Public Right-of-Way.

382. DISPOSAL OF SURPLUS MATERIALS

All existing or other materials not required or needed for use on the project, and not required to be removed and stockpiled, shall become the property of the Contractor and shall be removed from the site during the construction period and legally disposed of. No separate payment will be made for this work, but all costs in connection therewith shall be included in the unit bid prices for this Contract.

383. LOCATION OF SIGNS

The location of all new signs shall be marked in the field and approved by the City of Providence Division of Traffic Engineering prior to installation.

384. CONSTRUCTION REQUIREMENTS FOR TRAFFIC SIGNAL INSTALLATION

- A. The Contractor will be allowed to activate the new controllers once the City of Providence Division of Traffic Engineering has determined the minimum system elements have been installed.
- B. A factory representative must be available within 24 to 48 hours to field test the equipment and make any corrections necessary to ensure proper operation as shown on the plans, if necessary and requested by the City of Providence.
- C. When an intersection is completed and activated by the Contractor, the Engineer will perform a preliminary inspection. The Engineer will provide the Contractor with a report containing the results of the Preliminary Inspection along with a list of work items needed to satisfy this portion of the construction inspection. If the Contractor informs the Engineer that items on the list have been corrected and a second inspection indicates items have not been corrected, the Contractor will be back-charged for the second inspection and all subsequent inspections necessary prior to the next phase of the inspection. This does not apply to items that malfunction due to technical failure.
- D. After the items identified during the Preliminary Inspection are mitigated to the satisfaction of the Engineer, the second part of the inspection, or Central to Field Integration Inspection, will be conducted. The Engineer will provide the Contractor with a report containing the results of the Central to Field Integration inspection along with a list of work items needed to satisfy this portion of the construction inspection. If the Contractor informs the Engineer that items on the list have been corrected and a second inspection indicates items have not been corrected, the Contractor will be back-charged for the second inspection and all subsequent inspections necessary for final acceptance except the final inspection. This does not apply to items that malfunction due to technical failure.

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- E. It will be the Contractor's responsibility to extract signal timing values from the plans and install those timings on the controller. The signal timings must be checked and approved by the Engineer before the system is made fully operational.
 - F. All loop detectors (if applicable) shall be cut into the final pavement surface course in locations shown on the plans. Locations of the video detection zones shown on the plans are approximate. Final size and locations of the video detection zones shall be positioned in the field and tested in cooperation with the City of Providence Division of Traffic Engineering or its representative to ensure that detection zones are established to cover the approach width and that the detection system is functioning to the satisfaction of the City of Providence.
 - G. The proposed video detection cameras shall be located at the exact dimension called for on the plans, unless otherwise approved by the Engineer. Any existing traffic signal mounting hardware, brackets, arms, or safety chains that are damaged during construction or are deemed to be unsuitable for relocation (where called for on the plans) shall be replaced in kind and color by the Contractor at no additional cost.

385. SIDEWALK REMOVAL/INSTALLATION

- A. The Contractor shall take all necessary precautions to prevent damage to walls and fences abutting sidewalks and driveways designated for replacement. Where required, new sidewalks shall meet said walls and fences. Prior to sidewalk removal, a sawcut shall be provided in all sidewalks to be removed a distance, to be determined by the City of Providence Department of Public Works (6 inches minimum) from the face of adjacent buildings, retaining walls, and fences. The final 6 inches (minimum) of sidewalk will be removed with caution under the City of Providence Department of Public Works' supervision. There will be no additional payment for labor or equipment necessary to meet this "remove with caution" requirement.
- B. Any brick, paver, or stamped concrete/asphalt sidewalk, crosswalk, or roadway disturbed by construction activity shall be repaired by the Contractor at no additional cost. Any brick, paver, or stamped concrete/asphalt sidewalk, crosswalk, or roadway damaged or to be restored shall match the same materials that exist, including concrete base if appropriate, unless otherwise indicated on the plans, or directed by the Engineer.

386. PAVING NOTES

- A. The locations of all utility gate boxes and heads shall be marked prior to paving and adjusted upwards after the leveling course has been installed.
- B. The Contractor shall take extreme care to avoid tracking residue (pavement, tack coat, etc.) from newly paved areas onto adjacent areas especially stamped crosswalks. Any surfaces where residue is detected shall be replaced at the expense of the Contractor.

387. CURB RAMPS

- A. The final location of all curb ramps shall be coordinated in the field with the Engineer with proposed and/or existing locations of drainage structures, utility poles, light poles, and other appurtenances to ensure a clear pedestrian path. All proposed curb ramps shall be constructed in accordance with RI Standard 43.3.0 and per the details on the Plans.
- B. The installation of curb ramp curb will include the granite transition stones as well as the flush granite curb at the base of the ramp. In addition, a sawcut of the end sections abutting the 2-foot curb returns to be removed will be necessary (where applicable), to install the curb ramp transition curbs.

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- C. Any existing curb ramps disturbed by conduit installation or other construction activities shall be replaced with a new curb ramp in accordance with RI Standard 43.3.0, 43.3.1, 43.3.2 and 48.1.0 including required curbing to match existing, if required.

388. DIFFERING SITE CONDITIONS, CHANGES, AND EXTRA WORK

Any changes in the original scope of work shall be in accordance with GENERAL CONDITIONS PART I, Section 110.

389. SURVEY OF CURB RADII

All curb geometry and dimensions shown in the details are approximate. The Contractor shall survey all curb dimensions and radii prior to removal of curb.

390. COORDINATION WITH RIPTA

The Contractor shall coordinate with the Rhode Island Public Transportation Authority (RIPTA) to ensure that RIPTA remains operational at all times, as specified in the SPECIAL CONDITIONS, Section 326.

391. NATIONAL GRID REQUIREMENTS

GUIDELINES FOR BACKFILL AND COMPACTION AROUND GAS PIPES PERMANENT BACKFILL AND COMPACTION

DESCRIPTION

This work shall consist of backfilling and compacting all disturbed material at and around existing gas pipes and facilities. Size of pipe, material, length of exposed pipe, location of pipe, etc. will all follow the same set of Standards and Specifications stipulated by National Grid Company. If design plans call for gas pipes to be exposed and supported (sheeting methods not used), then at the time of backfill, all disturbed material below the invert of the gas pipe shall be removed and replaced with suitable roadway or trench excavation material or bedding material.

The contractor will not be allowed to replace this disturbed material with the same existing material if it has now been mixed with adjacent silty subsoil (clays) and fines. Well-graded gravel and sands will be used to replace the unsuitable material when no excess suitable material is available on site. Soils with high humus or mineral content should not be used for backfill because they can promote electrolytic or bacterial attack.

Backfilling the gas pipe should begin immediately after the work in that location is complete.

The region within 6" alongside and on top of the gas pipe shall be backfilled with padding sand (free of cinders, ash, and rock). In no case shall the material used for backfilling in this region contain any stones. Backfill shall consist of suitable materials (medium to coarse sands with little or no silts) placed in layers of not more than 8" to 12" after compaction.

Trench spoil material shall be suitable for backfilling above the padding material as long as rocks with a diameter larger than 3" are removed. The layers shall be mechanically compacted to the industry standard of 95% or until a density comparable to the unexcavated material is achieved. In some instances, flooding with water is an acceptable method of compaction but only if the back-fill material is clean, coarse, and adequate drainage is existent. The above specified backfill material is essential in order to attain the degree of compaction necessary to avoid future settlement.

Tracing Wire, if necessary, shall be installed 2" to 6" below Plastic gas pipes. Warning Tape shall be installed approximately 12" above the gas pipe.

A minimum of 2" temporary pavement shall be applied over the trench as soon as possible.

GUIDELINES FOR WORKING AROUND CORROSION CONTROL SYSTEM COMPONENTS DESCRIPTION

This guideline shall control work around existing Corrosion Control components. Replacement of test stations, anodes and test wire leads shall comply with Standards and Specifications stipulated by National Grid. If design plans call for work in the area of Corrosion Control components, care must be taken to prevent damage to such components.

GENERAL NATIONAL GRID CONSIDERATIONS

The contractor shall perform replacement of damaged corrosion control test boxes, resetting of disturbed test boxes, and ensure a minimum of 12" of excess wire above the rim of the test box after set to finished grade. Wires shall not be pulled taught to achieve the 12" above the box, as this will cause stress on the wire connection at the main. Wires needing to be lengthened, damaged corrosion control components i.e. wires, or wire coating, shall require notification to the Corrosion Control Department (525-5610 or 474-5171) to initiate inspection/repair or replacement of the damaged components.

Backfilling exposed Corrosion Control wire components should begin immediately after the work in that location is complete. The region within 6" alongside and on top of the connector wires shall be backfilled with padding sand (free of cinders, ash, and rock). Test wire leads must be kept with enough slack to prevent stress on the points where the wires connect to the gas main. Trench spoil material shall be suitable for backfilling above the padding material as long as rocks with a diameter larger than 3" are removed. The 8" to 12" backfill layers shall be mechanically compacted to the industry standard of 95%.

EFFORTS TO REPAIR GAS LEAKS PRIOR TO FINAL CONSTRUCTION (NIC)

The Contractor shall notify National Grid Gas (Sean Gunter – 617-719-2726) prior to any permanent paving, sidewalk or finishing operations for the purpose of a leak survey.

All efforts shall be made to minimize the time between road excavation/coldplane/reclamation so as to reduce gas leaks. The maximum time between road excavation/coldplane/reclamation is seven (7) calendar days.

392. CITY OF PROVIDENCE TECHNICAL SPECIFICATIONS

In addition to the standard and job specific specifications included in these Contract Documents, the construction in this Contract shall be in accordance with the City of Providence "Technical Specifications".

393. PAVEMENT INFORMATION

Included as Appendix H to the Contract Specific General Provisions is the pavement information for Broad Street that was obtained from the City of Providence Department of Public Works.

394. UTILITY PROBE INFORMATION

No utility probes were performed.

395. TESTING AND CERTIFICATION OF MATERIALS

- A. The Contractor shall adhere to the RIDOT Materials Testing and Certification Schedule. Testing of materials will be per the RIDOT specifications unless determined otherwise by the Owner.

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- B. Documentation of conformance to the required testing or certification of compliance as outlined in the schedule for each bid item must be submitted and approved by the Engineer prior to request for payment. Partial or complete payment for a given bid item may be delayed or refused without testing/certification documentation approved by the Engineer.
 - C. Materials not meeting the requirements of the specifications will be rejected. Testing of materials will be completed by the Owner's testing agency. The Contractor is responsible to provide 48-hour advanced notice to the Owner and RIDOT Materials prior to fabrication of precast structures to be inspected at the plant or delivery of any materials to be tested under the Materials Testing and Certification Schedule. Materials sample sizes shall be per the RIDOT Master Schedule for the Preparation of a Project Schedule for Sampling, Testing, and Certification of Materials, February 2010.
 - D. Authorized representatives performing the testing shall have access to the Work at all times and at all locations where the work is in progress. The Contractor shall provide facilities for such access to enable the personnel to perform their functions properly. Concrete and bituminous mixes will be subject to inspection and testing at the mixing plants and at the locations of installation for compliance with quality requirements.

396. FIRST SOURCE ORDINANCE

The attention of prospective bidders is called to the fact this project is to be bid upon and executed under the City of Providence, Code of Ordinances Chapter 21 Art. III 1/2 First Source Agreements Sec. 21-91 through 21-96. This ordinance outlines requirements for hiring employees to work on this project. The attention of prospective bidders is called to the fact that reporting the efforts undertaken and progress towards achieving the requirements in this ordinance is a condition for payment. Compliance reporting shall be submitted with any contract payment requisition, in the format to be provided. This demonstration of compliance through such reports shall be a condition of the requisition for payment to be processed. Upon the contract being awarded to the successful bidder, a mandatory meeting will be scheduled to review the project requirements relative to the First Source Agreements and the process and protocols by which these goals will be achieved. At this meeting, specific forms and procedures for the documentation and achievement of these requirements by the successful bidder will be provided, discussed and agreed upon for the execution of the contract.

397. APPRENTICE REQUIREMENTS

Attention of prospective bidders is called to the fact this project is to be bid upon and executed under the City of Providence, Code of Ordinances Chapter 21 Art. II Section 21-28.1 c (1) and (2) relating to utilizing apprentices in the contract. This ordinance outlines requirements for utilizing not less than 15% of total hours worked by apprentices. The attention of prospective bidders is called to the fact that reporting the efforts undertaken and progress towards achieving the requirements in this ordinance is a condition for payment. Compliance reporting shall be submitted with any contract payment requisition, in the format to be provided. This demonstration of compliance through such reports shall be a condition of the requisition for payment to be processed. Upon the contract being awarded to the successful bidder, a mandatory meeting will be scheduled to review the project requirements relative to apprenticeship requirements and the process and protocols by which these goals will be achieved. At this meeting, specific forms and procedures for the documentation and achievement of these requirements by the successful bidder will be provided, discussed and agreed upon for the execution of the contract.

398. AMERICANS WITH DISABILITIES ACT REQUIREMENTS

All sidewalks being constructed have been designed to comply with the ADA (Americans with Disabilities Act) requirements. A minimum clearance of thirty-six (36) inches of width at a point of narrowing, excluding curb width, and forty-eight (48) inches of continuous width elsewhere is required. Prior to installing any new sidewalks, the contractor must verify, by field review with the

Engineer, that these requirements have been met. Sidewalk construction shall not commence without prior approval of the Engineer in circumstances where these requirements cannot be attained.

399. STORM WATER POLLUTION PREVENTION PLAN

The Small Site Storm Water Pollution Prevention Plan (SWPPP) is included in Appendix J.

400. CONSTRUCTION DURATION/RESTRICTIONS

- A. All work shall be completed by Winter shutdown, and shall be made safe for pedestrians, bicyclists and motorists.
- B. Restrictions for work can be found in the Transportation Management Plan located in Appendix A.

401. RED LIGHT RUNNING CAMERAS

The intersection of Broad Street and Hawthorne Avenue has red light running cameras installed. The Contractor shall coordinate with Conduent, the City's vendor for red light running cameras, on the necessary adjustments to the equipment due to the lane realignment.

APPENDIX
Broad Street Improvements

P R O V I D E N C E , R H O D E I S L A N D

Appendix A	Transportation Management Plan (TMP)
Appendix B	Construction Details
Appendix C	Technical Specifications – Job Specific
Appendix D	Materials Testing and Certification Schedule
Appendix E	Distribution of Quantities
Appendix F	RIDOT Required Forms
Appendix G	State Workforce Regulation
Appendix H	Pavement Information
Appendix I	RIDOT Standard Clauses
Appendix J	Storm Water Pollution Prevention Plan
Appendix K	Schedule of Unit Prices

APPENDIX A: TRANSPORTATION MANAGEMENT PLANS

Leo J. Perrotta
Acting Director



Jorge O. Elorza
Mayor

DEPARTMENT OF PUBLIC WORKS

"Building Pride in Providence"

January 19, 2021

Mike Sprague
Rhode Island Department of Transportation
Two Capitol Hill
Providence, RI, 02903

Re: Transportation Management Plan City Walk Phase 2

Dear Mr. Sprague

I have reviewed the attached Traffic Management Plan(TMP) for the City Walk Phase 2 project. I concur with the traffic control during construction of the project as described in the TMP.

Very truly Yours,

A handwritten signature in blue ink that reads "Natale D. Urso".

Natale D. Urso, PE, PTOE
Traffic Engineer

XC: Martina Haggerty, Francisco Lovera, Leo Perrotta



Project Name: City Walk - Phase 2 (Resurfacing of Broad Street)
 RI Design Contract No(s): N/A
 RI Construction Contract No(s): N/A
 Submission: PS&E Date: JANUARY 2021

PROJECT INFORMATION

Brief Project Description: Phase 2 of the Providence City Walk project involves resurfacing and curb ramp construction. Resurfacing consists of repaving Broad Street from Elmwood Avenue to Baker Street. Curb ramp construction consists of the replacement of non-ADA-compliant curb ramps.

General Work Limits: Phase 2 of the Providence City Walk project encompasses 1.16 miles of Broad Street extending from the intersection of Elmwood Avenue to the intersection of Baker Street. Curb ramp replacement will take place on both the east and west sides of the roadway for 89 non-compliant ramps.

WORK ZONE LOCATIONS			
ROADWAY NAME or INTERSECTION	FROM	TO	APPROX. LENGTH
Broad Street	Elmwood Avenue	Baker Street	8,510 ft

General Project Schedule*: Work relating to Phase 2 of the City Walk project is expected to begin in Spring of 2021 with an anticipated completion date of Fall of 2021.

*The information in this section is not intended to and shall not supersede the approved schedule and milestone/completion dates for the project.

TRAFFIC-RELATED WORK RESTRICTIONS

General Restrictions: See Attachment A - General Restrictions Table. Paving and striping work shall be permitted to take place only at night between 21:00 and 6:00. A minimum of one 11' wide travel lane shall remain open to traffic at all times.

Holiday Restrictions: See Attachment B - Holiday Restrictions

TEMPORARY TRAFFIC CONTROL PLANS

These RIDOT- and/or Designer-Developed TTC Plans will be used during the work on this project

Included in:		Included in:			
RIDOT TYPICAL TTC PLANS	TMP	Plan Set	DESIGNER-DEVELOPED TTC PLANS	TMP	Plan Set
<input type="checkbox"/> Mobile Operation	<input type="checkbox"/>	<input type="checkbox"/>	Typical lane closure on far side of intersection	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Work Beyond the Shoulder	<input type="checkbox"/>	<input type="checkbox"/>	Typical sidewalk diversion	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Shoulder Closure - Two Lane Road	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Shoulder Closure - Limited Access	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 1-Side Lane Shift - Two Lane Road	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> 2-Side Lane Shift - Two Lane Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Lane Shift - Limited Access	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Lane Closure - Two Lane Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Lane Closure - Four Lane Road	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Lane Closure - Limited Access	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Double Lane Closure - Limited Access	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

PUBLIC INFORMATION PLAN

These strategies will be used to provide information concerning the project to road users and the community

SELECTED STRATEGIES

- RIDOT travel advisories news releases
- RIDOT travel advisories web site
- RIDOT 511 traveler information system

RESPONSIBILITIES / REQUIREMENTS / SPECIAL CONSIDERATIONS

- RIDOT TMP Imp. Mngr. to send RIDOT notification form to Communications min. 48 hrs. in advance of restrictions.
- RIDOT TMP Imp. Mngr. to send RIDOT notification form to Communications min. 48 hrs. in advance of restrictions.
- RIDOT TMP Imp. Mngr. to send RIDOT notification form to RIDOT TMC min. 48 hrs. in advance of restrictions.

TRANSPORTATION OPERATIONS PLAN

These strategies will be used to provide improved transportation operations/safety within project work zones

SELECTED STRATEGIES

- Reversible lanes
- Parking restrictions

RESPONSIBILITIES / REQUIREMENTS / SPECIAL CONSIDERATIONS

- Night striping work
- On-street parking within Work Zone will be temporarily unavailable.

PERFORMANCE MONITORING, CHANGES TO TMP, & CONTINGENCIES

The Contractor's TMP Implementation Manager (if identified below) is responsible for keeping the portion of the project being used by public traffic in a condition that (1) safely and adequately accommodates such traffic and (2) is in accordance with the Traffic-Related Work Restrictions, the Temporary Traffic Control Plans, and where appropriate, the other transportation management strategies identified above. The RIDOT TMP Implementation Manager or his/her responsible designee should (1) inspect the project work zones at initial setup, at the start of each subsequent work day, and just prior to extended breaks in the work (e.g., weekends) for conformance with the Temporary Traffic Control Plans, the ATSSA Quality Guidelines for Temporary Traffic Control Devices and Features, and where applicable, the other transportation management strategies identified above and (2) document all work zone-related feedback and complaints that are received from the public.

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

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

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

Other

Requirements:

TMP APPROVALS

All approvals must be obtained prior to start of work

ADMINISTRATOR OF PROJECT MANAGEMENT			STATE TRAFFIC ENGINEER			CHIEF ENGINEER OF INFRASTRUCTURE		
Signature: _____			Signature _____			Signature: _____		
Date: _____			Date _____			Date: _____		
Revision #	Initials	Date	Revision #	Initials	Date	Revision #	Initials	Date

TMP IMPLEMENTATION MANAGERS

Project managers with the primary responsibility & authority for implementation of this TMP

RIDOT	CONTRACTOR (if contract work)
Name: _____	Name: _____
Title: _____	Title: _____
Unit: _____	Company/Unit: _____
Office Phone: _____	Office Phone: _____
Mobile Phone: _____	Mobile Phone: _____
E-Mail: _____	E-Mail: _____

Location	MINIMUM NUMBER OF LANES & SHOULDERS TO REMAIN OPEN TO TRAFFIC ^{1,2}								
	Time of Day		Day of Week						
	From	To	SUN	MON	TUES	WED	THURS	FRI	SAT
Broad Street	0:00	6:00	ALL	1 L ⁴	1 L ⁴	1 L ⁴	1 L ⁴	ALL	ALL
	6:00	15:00	ALL	2 L ³	2 L ³	2 L ³	2 L ³	2 L ³	ALL
	15:00	21:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL
	21:00	0:00	1 L ⁴	1 L ⁴	1 L ⁴	1 L ⁴	ALL	ALL	ALL

LEGEND

ALL	All travel lanes and shoulders/parking lanes shall remain open to traffic
1 L	A minimum of one 11-foot wide travel lane shall remain open to traffic
2 L	A minimum of two 11-foot wide travel lanes shall remain open to traffic

NOTES

- 1 The set-up and break-down of temporary traffic control devices within a traveled way or shoulder shall be construed as a closure of that traveled way or shoulder.
- 2 The provisions noted herein shall not free the Contractor from his responsibility to conduct all work in such a manner that assures the least possible obstruction to traffic.
- 3 Access must be maintained to all side streets and driveways at all times.
- 4 Only resurfacing and striping work is permitted to take place at night between 21:00 and 6:00 the following morning. All other proposed improvements shall be completed between 6:00 and 15:00.

Attachment B to Level 3 TMP - City Walk - Phase 2 Resurfacing:
Holiday Restrictions

HOLIDAY RESTRICTIONS

NOTE: IN CASE OF DISCREPANCY BETWEEN THESE HOLIDAY RESTRICTIONS AND THE GENERAL RESTRICTIONS, THESE HOLIDAY RESTRICTIONS SHALL GOVERN.

EASTER SUNDAY:

No lane and/or shoulder closures allowed on Saturday.

No lane and/or shoulder closures allowed on Sunday.

NEW YEAR'S DAY, INDEPENDENCE DAY, & CHRISTMAS DAY:

No lane and/or shoulder closures allowed after 13:00 on the day before the holiday.

No lane and/or shoulder closures allowed on the holiday.

VETERANS DAY:

No lane and/or shoulder closures allowed after 13:00 on the day before the holiday.

No lane and/or shoulder closures allowed on Veterans Day until 21:00 (After 21:00, General Restrictions shall apply).

DR. MARTIN LUTHER KING JR. DAY, VICTORY DAY, & COLUMBUS DAY:

No lane and/or shoulder closures allowed on Saturday and/or Sunday.

No lane and/or shoulder closures allowed on Monday up to 21:00 (After 21:00, General Restrictions shall apply).

MEMORIAL DAY & LABOR DAY:

No lane and/or shoulder closures allowed on Saturday, Sunday, and/or Monday.

THANKSGIVING DAY:

No lane and/or shoulder closures allowed after 13:00 on the Wednesday preceding Thanksgiving Day.

No lane and/or shoulder closures allowed on Thanksgiving Day, Friday, Saturday, and/or Sunday.



Project Name: City Walk - Phase 2
 RI Design Contract No(s): N/A
 RI Construction Contract No(s): N/A
 Submission: PS&E Date: JANUARY 2021

PROJECT INFORMATION

Brief Project Description: Phase 2 of the City Walk project involves pavement striping, signage installation, curb ramp and bus stop construction. Pavement striping includes striping of bus lanes, bike lanes, travel lanes, parking lanes, directional arrows, centerlines, shoulder lines, stop lines, and crosswalks. Proposed signage along the corridor includes bike lane warning, parking, regulatory stop, one-way turning, and yield signs. Granite curbing is proposed to separate bike lanes, create a floating bus stop island, and is proposed alongside new curb ramps.

General Work Limits: Phase 2 of the Providence City Walk project encompasses 1.16 miles of Broad Street extending from the intersection of Elmwood Avenue to the intersection of Hawthorne Avenue. Sign installation and curb work will take place on both the east and west sides of the street. Pavement striping will occur mostly on the east and west sides for bike and bus lanes but centerline striping and crosswalk striping will take place within the center of the street as well. Lane shifts, lane closures, and sidewalk diversions will be required for both short-term incidental work as well as curb, curb ramp, and floating bus stop installation operations.

WORK ZONE LOCATIONS			
ROADWAY NAME or INTERSECTION	FROM	TO	APPROX. LENGTH
Broad Street	Elmwood Avenue	Hawthorne Avenue	8,470 ft

General Project Schedule*: Work relating to Phase 2 of the City Walk project is expected to begin in Spring of 2021 with an anticipated completion date of Fall of 2021.

*The information in this section is not intended to and shall not supersede the approved schedule and milestone/completion dates for the project.

TRAFFIC-RELATED WORK RESTRICTIONS

General Restrictions: See Attachment A - General Restrictions Table. Striping work shall be permitted to take place only at night between 21:00 and 6:00 the following morning. A minimum of one 11' wide travel lane shall remain open to traffic at all times.

Holiday Restrictions: See Attachment B - Holiday Restrictions

TEMPORARY TRAFFIC CONTROL PLANS

These RIDOT- and/or Designer-Developed TTC Plans will be used during the work on this project

RIDOT TYPICAL TTC PLANS	Included in:		DESIGNER-DEVELOPED TTC PLANS	Included in:	
	TMP	Plan Set		TMP	Plan Set
<input type="checkbox"/> Mobile Operation			Typical lane closure on far side of intersection		X
<input type="checkbox"/> Work Beyond the Shoulder			Typical sidewalk diversion		X
<input type="checkbox"/> Shoulder Closure - Two Lane Road					
<input type="checkbox"/> Shoulder Closure - Limited Access					
<input type="checkbox"/> 1-Side Lane Shift - Two Lane Road					
<input checked="" type="checkbox"/> 2-Side Lane Shift - Two Lane Road		X			
<input type="checkbox"/> Lane Shift - Limited Access					
<input checked="" type="checkbox"/> Lane Closure - Two Lane Road		X			
<input type="checkbox"/> Lane Closure - Four Lane Road					
<input type="checkbox"/> Lane Closure - Limited Access					
<input type="checkbox"/> Double Lane Closure - Limited Access					

PUBLIC INFORMATION PLAN

These strategies will be used to provide information concerning the project to road users and the community

SELECTED STRATEGIES

- RIDOT travel advisories news releases
- RIDOT travel advisories web site
- RIDOT 511 traveler information system

RESPONSIBILITIES / REQUIREMENTS / SPECIAL CONSIDERATIONS

- RIDOT TMP Imp. Mngr. to send RIDOT notification form to Communications min. 48 hrs. in advance of restrictions.
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Other _____

Requirements: _____

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Signature: _____			Signature _____			Signature: _____		
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Broad Street	0:00	6:00	ALL	1 L ⁴	1 L ⁴	1 L ⁴	1 L ⁴	ALL	ALL
	6:00	15:00	ALL	2 L ³	2 L ³	2 L ³	2 L ³	2 L ³	ALL
	15:00	21:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL
	21:00	0:00	1 L ⁴	1 L ⁴	1 L ⁴	1 L ⁴	ALL	ALL	ALL

LEGEND

ALL	All travel lanes and shoulders/parking lanes shall remain open to traffic
1 L	A minimum of one 11-foot wide travel lane shall remain open to traffic
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NOTES

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- 2 The provisions noted herein shall not free the Contractor from his responsibility to conduct all work in such a manner that assures the least possible obstruction to traffic.
- 3 Access must be maintained to all side streets and driveways at all times.
- 4 Only Striping work is permitted to take place at night between 21:00 and 7:00 the following morning. All other proposed improvements shall be completed between 7:00 and 15:00.

Attachment B to Level 3 TMP - 2018-EC-001_City Walk - Phase 2:
Holiday Restrictions

HOLIDAY RESTRICTIONS

NOTE: IN CASE OF DISCREPANCY BETWEEN THESE HOLIDAY RESTRICTIONS AND THE GENERAL RESTRICTIONS, THESE HOLIDAY RESTRICTIONS SHALL GOVERN.

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APPENDIX B: CONSTRUCTION DETAILS

CITY OF PROVIDENCE – STANDARD DETAILS

INDEX

<u>Detail No.</u>	<u>Issue Date</u>	<u>Title</u>
6.3.6P	1/6/17	Rectangular Frame and Grate
7.3.0P	1/6/17	Granite Curb – Straight and Circular
7.3.3P	1/6/17	Granite Wheelchair Ramp Transition Curb
7.3.4P	1/6/17	Granite 2'-0" Radius Curb Return
7.3.5P	1/6/17	Granite Inlet Stone – 30" Opening
7.3.9P	1/6/17	Granite Ramp Stone
43.1.0P	1/6/17	Cement Concrete Sidewalk
43.1.1P	1/6/17	Sidewalk Removal Detail
48.1.0	1/6/17	Detectable Warning Panel Placement (RIDOT Standard)

Details appearing in this document have been adopted as City of Providence Standard. Refer to Rhode Island Department of Transportation (RIDOT) for all other standard details:
http://www.dot.ri.gov/documents/doingbusiness/RIDOT_Std_Details.pdf

Refer to RIDOT Default Standard Item List for Traffic Engineering standard items.
<http://www.dot.ri.gov/documents/doingbusiness/DefaultStdItemsList%20011415.pdf>

Refer to RIDOT Standard Specifications for Road and Bridge Construction for standard specifications:
<http://www.dot.ri.gov/documents/doingbusiness/Bluebook.pdf>

**APPENDIX C.1:
TECHNICAL SPECIFICATIONS – JOB SPECIFIC
BROAD STREET IMPROVEMENTS**

GENERAL PROVISIONS – JOB SPECIFIC

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CODE: 105.9901	CONTROL OF WORK	JS-5
CODE: 108.1000	PROSECUTION AND PROGRESS	JS-10
CODE: 201.9901	REMOVE, STOCKPILE, AND RESET OR RELOCATE BIKE HITCH	JS-11
CODE: 201.9902	REMOVE, SALVAGE, AND DELIVER FRAME AND GRATE	JS-12
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CODE: 906.0113	GRANITE CURB PROVIDENCE STANDARD 7" CIRCULAR	JS-17
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JOB SPECIFIC

CODE: 100.9901

GENERAL

All Work shall be in accordance with these Technical Specifications and the Rhode Island Department of Transportation, Standard Specifications for Road and Bridge Construction, including latest revisions, addenda and compilations.

For the work, any field engineering or survey layout, etc. is the responsibility of the Site Contractor.

The Site contractor is responsible to accurately show completed work, changes and modifications to the original Contract (i.e. "as-built" drawings) on a record set of drawings which are to be submitted to the Department of Public Works upon the completion of the site work.

The Contractor shall conform to all requirements of the Department of Public Works, General Street Closing & Emergency No Parking Signs Posting Permit Guidelines, immediately following this Section.

Sections throughout this document have been amended to reflect City of Providence, Department of Public Works and Department of Planning and Development, requirements – 5/22/97, latest revision 01/04/02, and 02/20/02.

In various places of the Special Provisions, the words “State”, “Department”, and “Engineer” are intended to mean the “City of Providence” or its assigned representative.

The “City of Providence” will be providing construction project administration and will be in charge of the work and will make all decisions in its own behalf. A representative of the City will inspect this project.

If two details or specifications are similar, the City detail shall take precedence unless directed otherwise by the City.

JOB SPECIFIC

CODE: 101.71

SUBSTANTIAL COMPLETION

101.71 SUBSTANTIAL COMPLETION. Substantial completion is when the Work is completed so it can be safely and effectively used by the public. This may include the entire Project or a unit, or portion of the Work such as a structure, an interchange, or section of road or pavement.

Except as provided by other provisions in the Contract, after notice by the Contractor, Substantial Completion occurs at the point when the Engineer determines that the following Work has been finished:

- 1) All courses of pavement are completed;
- 2) Curbing and sidewalks are placed;
- 3) All project drainage is completed;
- 4) Guardrail and terminal sections are properly installed;
- 5) Permanent pavement markings are completed;
- 6) Traffic signal systems meet the following requirements:
 - a) Isolated traffic signals - the signal control equipment is fully programmed, detectors are installed and functioning, and the signal is in actuated operation;
 - b) Coordinated traffic signal systems - the requirements of condition (a) are met, the interconnect is installed and functioning, and the signals are operating as a coordinated system;
- 7) Regulatory and warning signs are installed;
- 8) Highway lighting is operational.

The parties may agree that any incomplete contract Work, including but not limited to landscaping, erosion control measures, or Final Cleanup, not listed in 1-8 above shall be completed on the Punch List, which is defined in Section 101 in the Specifications.

JOB SPECIFIC

CODE: 105.02

PLANS AND SHOP DRAWINGS

Unless otherwise modified elsewhere in the Contract Documents, Section 105.02 of the Rhode Island Standard Specifications for Road and Bridge Construction is revised as follows:

Delete Subsection 105.02 PLANS AND SHOP DRAWINGS in its entirety and replace with the following:

105.02 PLANS AND SHOP DRAWINGS. Plans will show details of all structures, lines, grades, typical cross sections of the roadway, location and design of all structures and a summary of items appearing on the Proposal.

The Contractor shall keep one set of plans and approved shop drawings available at the site at all times.

All shop drawings will be submitted in a timely fashion such that the Contractor's approved schedule will not be adversely impacted by the submittal process. Shop drawings shall consist of such detailed plans required to control the work that are not included in the plans furnished by the Department. They shall include but not be limited to compost filter sock inlet sediment control device, traffic separator curb with flex post, detectable warning panel, flexible post delineators, signal equipment, green friction high visibility surface. The Contractor shall submit seven (7) sets of shop drawings to the Engineer. Shop drawings shall be accompanied by two (2) sets of design computations, cuts from a manufacturer's catalog, and/or supporting technical bulletins. The submission to the Design Consultant shall be by courier or overnight delivery. The shop drawings shall be delivered to:

McMahon Associates
14 Breakneck Hill Road, Suite 201
Lincoln, RI 02865
Attn: Francisco Lovera, P.E.

All shop drawings shall be stamped by a Rhode Island Registered Professional Engineer. The stamping of shop drawings shall be in accordance with the applicable requirements of the Rhode Island Board of Registration for Professional Engineers, or other Boards of Professional Registration, as applicable.

Within forty-five (45) calendar days of submission, all shop drawings shall be reviewed by the Engineer and returned to the Contractor for appropriate action. Shop drawings that are found to be erroneous, lacking information necessary to control construction, or not in conformance with

accepted design criteria will be disapproved and returned to the Contractor. The Contractor shall address the Engineer's comments and resubmit revised shop drawings and/or design computations. The Contractor will not be allowed any increase in contract time for the time taken by the Contractor to submit revised shop drawings caused by an erroneous submission, or by a previous submission either lacking the information necessary to control construction, or not conforming to accepted design criteria.

Also, the time taken by the Engineer to review the revised shop drawings does not constitute justification for additional contract time.

Shop drawings must be approved by the Engineer prior to performance of the work involved. Such approval shall not relieve the Contractor of any responsibility under the contract for the successful completion of the work.

Unless otherwise specified in the contract documents, the contract price will include the cost of furnishing all shop drawings.

JOB SPECIFIC

CODE: 105.9901

CONTROL OF WORK

In addition to the requirements of the Standard Specification, the Contractor shall conform to the following:

105.21 GENERAL SEQUENCE OF WORK

Sequence and scheduling of the Work to be reviewed and approved by the Owner in accordance with SECTION 108.

105.22 SPECIFIC SEQUENCES OF WORK

In areas where both Roadway and Sidewalk work are to be constructed, the curbing and sidewalk work is to be constructed prior to final paving of adjacent roadways.

In areas where the Roadway is to be Recycled or Cold Planed, the Roadway is to be resurfaced within seven (7) calendar days after the original pavement surface is removed. Any erosion or loss of remaining asphalt or granular base after the 7 calendar days shall be patched as directed by the engineer, with no additional payments due to the contractor.

In areas where the Sidewalk is to be Reconstructed or Constructed, the Sidewalk is to be in place within seven (7) calendar days after the original sidewalk surface is removed or excavation for the new sidewalk has taken place.

Work on pavement stripes and traffic loops shall commence two (2) weeks after street has been resurfaced. If markings do not begin at this time, this could be cause for suspending resurfacing operations until pavement striping and loop operation is put into effect.

105.23 COORDINATE WITH UTILITY COMPANIES

The Contractor shall notify the affected Utility companies at least sixty (60) calendar days prior to commencing work in the location of the respective utility.

The purpose of this advanced notification is to allow the utility company ample time to adjust, reconstruct or reset utility features within the influence of the Work of the roadways and sidewalks scheduled for construction.

105.24 COORDINATE WITH LOCAL PUBLIC AGENCY'S MATERIALS AND METHODS TESTING

Concrete and soils testing will be as per the RIDOT specifications unless determined otherwise by the Engineer. The concrete testing will be performed by the Owners selected Testing agency and/or the Engineer. Costs for testing will be borne by the Owner. Concrete not meeting the requirements of the specification and/or the approved shop drawings (mix design) will be rejected

The Contractor shall provide the Engineer 48-hour notice for testing materials and methods.

The Contractor shall cooperate with the Local Public Agency's selected testing agency and all others responsible for testing and inspecting the Work.

Authorized representatives performing the testing shall have access to the Work at all times and at all locations where the Work is in progress. The Contractor shall provide facilities for such access to enable the personnel to perform their functions properly.

All specimens and samples for testing, unless otherwise provided in the Contract Documents shall be taken by the testing personnel.

With the exception of some testing to be performed by the Engineer all sampling equipment and personnel will be provided by the testing laboratory.

All deliveries of specimens and samples to the testing laboratory will be performed by the testing laboratory.

Concrete and bituminous mixes will be subject to inspection and testing at the mixing plants and at the locations of installation for compliance with quality requirements.

105.25 SECURITY

The Contractor shall provide security personnel for all work which will otherwise be unattended during cure time. All work damaged during this cure time shall be removed and reconstructed at the Contractor's expense.

105.26 DISPOSAL OF MATERIAL

The disposal of any excess or unsuitable material including earth, pavement, debris from demolished structures of all types, vegetative matter and any other material either found on the work site or brought to the site by the contractor or subcontractors will be in accordance with all applicable local, State and Federal laws. The following procedures will be encountered during the prosecution of work:

1. Under no circumstances will any material be deposited in a freshwater or coastal wetland or regulated areas. The Contractor must obtain the permission of the Engineer prior to on site disposal of material.
2. The off-site disposal of any material will be allowed only by written permission of the property owner upon whose property the material is to be deposited. The Contractor must furnish a copy of said written permission.
3. For all off-site disposal areas, it will be the Contractor's responsibility to obtain the approval of the Department of Environmental Management, the Coastal Resources Management council, and any other governmental agency as necessary.

The above procedures will be performed by the Contractor at no additional cost to the Agency or City. Under these procedures, the Contractor retains all responsibilities and liabilities under City, State and Federal laws for violations resulting from disposal of material from the project and will defend and hold the Agency and City harmless there from. Removal and disposal of the Asbestos Cement materials shall be according to all current City, State and Federal regulations.

1.05.27 "DIG SAFE" LAW

The Contractor shall comply with the Rhode Island General Law, Chapter 39-1.2, "Excavation Near Underground Utility Facilities" which became effective on July 1, 1984. Before commencing with the construction of any work, identify any water main, gas main, telephone duct, electric duct, and/or other utility present which is or could be in conflict with the proposed work.

Relocation of the affected utilities shall be done as directed by the Local Public Agency and in accordance with the requirements of the corresponding utility company.

The attention of the Contractor is directed to the fact that certain utility companies may not fall under the provisions of "DIG SAFE". Individual utility company notifications by the Contractor shall be necessary to insure proper notification and protection of all existing utilities affected by this Contract.

105.28 CONSULTANT

The firm hired by the Local Public Agency to provide Inspection Services and the associated Contract Administration for individual portions of the Project, and refers to any one or combination of employees of the Consultant such as Project Manager and Inspector. The Consultant will perform the majority of the duties assigned to the "Engineer" in these Contract Documents.

105.29 PROGRESS MEETINGS

The Engineer will schedule and administer progress meetings and specially called meetings throughout the duration of the Work at minimum monthly intervals.

The time and location of such meetings shall be designated by the Engineer and shall be convenient for all parties involved.

The Engineer will, prepare agenda with copies for participants, preside at meetings, record minutes, and distribute copies to participants, and those affected by decisions made.

105.30 CONTRACTORS WORKING HOURS

No work shall be done at night or on Saturdays, or Sundays or holidays without the prior written approval of the Local Public Agency. The Local Public Agency retains the right to restrict the Contractor to an eight-hour workday. Such restrictions shall not be the basis for damages or claims against the Local Public Agency.

The Contractor's attention is also directed to the fact that it may be deemed necessary to perform various items of work during off-peak traffic hours, during early morning or late at night. The assumption is made that all work outside of pavement marking activity will be able to occur during daylight hours.

The Contractor shall not be entitled to any additional compensation from the Local Public Agency for any expenses including premiums on labor that may be incurred by change of working hours and/or scheduling in accordance with SECTION 325 of the Special Conditions, NIGHT WORK. The Contractor shall reference the Maintenance and Protection of Traffic Plans for work zone information with respect to peak hours and school zone pickup/drop-off.

105.34 ALLOWANCES IN THE BID

Under these Items the Contractor shall be reimbursed for certain charges for the services as stated. The allowance prices established in the Bid are estimated figures to facilitate the comparison of bids. This does not include police details which will be paid directly by Providence DPW.

Payment will be based on the actual paid invoiced amount from the respective department without allowance for Contractors mark up, overhead or profit. If the total cost is greater or less than the amount stated in the Bid, a debit or credit of the difference in cost shall be applied to the allowance price for this Item.

105.35 SCHEDULE OF VALUES

Within 14 calendar days of the date of the executed Contract, the Contractor shall submit a list detailing the breakdown of any lump sums bid for review and concurrence by the Engineer. This list will be used by the Engineer as a guide in approving estimates for payment. The list shall be an accurate representation of costs required to complete the Work in accordance with the Contract Documents.

A schedule (cash flow) of the monthly value of work done based on the Progress Schedule shall be submitted within 14 calendar days of the date of the executed Contract. The schedule shall show the total sum of work done for each month of the projected construction period and shall be updated monthly to reflect the actual amount requisitioned for payment.

105.36 MINORITY AND WOMAN'S BUSINESS ENTERPRISES

In accordance with RI Gen. Law §§ 37-14.1-2 and 37-14.1-6, MBEs and WBEs shall be included in all state purchasing, including, but not limited to, the procurement of goods, services, construction projects, or contracts funded in whole or in part with state funds, or funds which, in accordance with a federal grant or otherwise, the state expends or administers. MBEs and WBEs shall be awarded a minimum of ten percent (10%) of the dollar value of the entire procurement or project for the Broad Street Improvements. MBE participation credit shall only be granted for firms duly certified as MBEs or WBEs by the State of Rhode Island, Department of Administration, Office of Diversity, Equity and Opportunity, MBE Compliance Office (MBECO).

The Contractor shall conform to the requirements of the City of Providence Code of Ordinances Section 21-52 which requires a goal of 10% of the dollar value of the Work to be performed by Minority Business Enterprise and 10% of the dollar value of the Work to be performed by Woman's Business Enterprise for the Broad Street Improvements – Resurfacing Add-Alternate.

The Contractor shall use his personnel and personnel of his subcontractors to reach these goals.

JOB SPECIFIC

CODE: 108.1000

PROSECUTION AND PROGRESS

Replace Subsection 108.01; Subletting of contract, page 1-56 of the Standard Specifications for Road and Bridge Construction (Amended 2018) with all revisions with the following:

108.01 SUBLETTING OF CONTRACT. The Contractor shall not sublet, sell, transfer, assign, or otherwise dispose of the Contract or any portion thereof, or of its right, title, or interest therein, without written consent of the Engineer. If the Engineer gives such consent, the Contractor will only be permitted to sublet a portion thereof. The Contractor shall perform with its own organization work amounting to not less than 40 percent of the adjusted contract cost. The adjusted contract cost is the total contract cost less the total cost of subcontract specialty items listed in the Proposal. Specialty Items are defined in **Subsection 101.63**.

No subcontractors or transfers of contract shall relieve the Contractor of liability under the Contract and Bonds. A copy of written agreements with subcontractors must be submitted when making application to sublet any work under contract. The Contractor shall not require or withhold retainage from subcontractors. Furthermore, no agreements between the Contractor and its subcontractors or vendors shall create any “third party” relationships between said subcontractors or vendors and the State.

The Contractor shall provide written notice to, and obtain prior written consent from the Engineer, before allowing any subcontractor to sublet any portion of its work to a lower-tier Contractor.

In accordance with section 108.09, Failure to Complete on Time, Para. a., Phased Completion, Interim Completion and Substantial Completion the following defines the Interim and Substantial Completion Dates and Associated Liquidated Damages:

The installation of sidewalks, traffic separator curbs with flex post, flexible delineator posts, and pavement marking words and symbols must be completed as required by Job Specific Codes 905.1000, 906.9901, T18.9901, and T20.9902-T20.9906, respectively.

Substantial Completion: June 1, 2022

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

Liquidated Damages: \$1500.00 per calendar day.

JOB SPECIFIC

CODE: 201.9901

REMOVE, STOCKPILE, AND RESET OR RELOCATE BIKE HITCH

DESCRIPTION: This work shall consist of removing, stockpiling, and resetting or relocating bike hitches at the locations indicated on the Plans and/or as directed by the Engineer, all in accordance with this specification.

CONSTRUCTION METHODS: Prior to commencing sidewalk work in the area of a bike hitch, the Contractor shall remove and stockpile the bike hitch in another area within the project limits, as approved by the Engineer. The Contractor shall install the new sidewalk per the Plans. The Contractor shall allow the sidewalk to properly cure per Subsection 905.03.3 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, before resetting or relocating the bike hitch. The bike hitch shall be reset in the location from which it was removed or relocated as indicated on the Plans and/or as directed by the Engineer. The Contractor will be responsible for protecting all stockpiled bike hitches from damage, theft, and vandalism.

The surface mounted bike hitch is installed onto the existing sidewalk with four (4) anchors. If the existing anchors are in good condition, they can be reused, or else they should be replaced in kind.

METHOD OF MEASUREMENT: “Remove, Stockpile, and Reset or Relocate Bike Hitch” will be measured by “Each” such bike hitch removed, stockpiled, and reset or relocated in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: “Remove, Stockpile, and Reset or Relocate Bike Hitch” shall be paid for at the contract unit price per “Each” as listed in the Proposal. The price so-stated constitutes full and complete compensation for all labor, materials, and equipment for removing, stockpiling, and resetting or relocating the bike hitch, including new bolts, if needed, repairs to the sidewalk, and for all other incidentals required to finish the work, complete and accepted by the Engineer.

JOB SPECIFIC

CODE: 201.9902

REMOVE, SALVAGE, AND DELIVER FRAME AND GRATE

DESCRIPTION: This work shall consist of removing and salvaging frames and grates at the locations indicated on the Plans and/or as directed by the Engineer, all in accordance with this specification.

CONSTRUCTION METHODS: The frames and grates indicated on the Plans shall be removed and stockpiled. The salvaged frames and grates will remain the property of the City of Providence Department of Public Works and shall be delivered to the Providence Department of Public Works – Sewer Division at 700 Allens Avenue, Providence, RI 02905. Care should be exercised so that the frames and grates are not damaged during removal and delivery. The Contractor will be responsible for protecting all salvaged frames and grates from damage, theft, and vandalism until delivery.

All improvements, equipment, and existing surfaces disturbed, damaged or removed in the performance of this item of work, unless indicated on the Plans, shall be replaced to the satisfaction of the Engineer at no expense to the State.

METHOD OF MEASUREMENT: “Remove and Salvage Frame and Grate” will be measured by “Each” such frame and grate removed and salvaged in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: “Remove and Salvage Frame and Grate” will be paid for at the contract unit price per “Each” as listed in the Proposal. The price so-stated constitutes full and complete compensation for all labor, materials, and equipment, including delivery, and for all other incidentals required to finish the work, complete and accepted by the Engineer.

JOB SPECIFIC

CODE: 206.9901

COMPOST FILTER SOCK INLET PROTECTION

DESCRIPTION: This work shall consist of the furnishing, installation, maintenance and removal of a compost filter sock to be installed at drainage inlets for the protection of the existing drainage system, wetlands, and other resource areas on the Plans and/or as directed by the Engineer, all in accordance with this specification.

MATERIALS: Silt sock inlet protection shall be installed at designated catch basins within the project limits and as required by the Engineer. Silt sock shall conform to Section 206.02.4 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, or Filtrexx silt sock, or Engineer approved equal. This work shall be completed in accordance with the applicable sections of Sections 206 and 209 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

CONSTRUCTION METHODS: The silt sock inlet protection shall be installed to extend past the opening of the existing catch basin inlet stone. The silt sock inlet protection shall be installed in accordance with the construction detail as shown on the plans.

Silt socks shall remain in place until the placement of the pavement overlay or top course. Removal of the silt sock shall conform to Section 206.03.4b of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

The Contractor shall inspect the condition of silt socks after each rainstorm and during major rain events. Silt socks shall be cleaned periodically to remove accumulated debris as required. Silt socks, which become damaged during construction operations, shall be repaired or replaced immediately at no additional cost to the Owner.

METHOD OF MEASUREMENT: “Silt Sock Inlet Protection” will be measured by “Each” such silt sock installed in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: “Silt Sock Inlet Protection” shall be measured and paid for at the contract unit price per “Each” as listed in the Proposal. The price so-stated shall constitute full compensation for furnishing, placing, relocating, maintaining, removing and disposing the silt sock including all materials, labor, equipment, tools, appurtenances, and incidentals required to finish the work, complete and accepted by the Engineer.

JOB SPECIFIC

CODE: 212.1000

MAINTENANCE AND CLEANING OF EROSION AND POLLUTION CONTROLS

DESCRIPTION: Subsection 212.03.3; Failure to Maintain Erosion and Pollution Controls, of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, requires that a daily charge be deducted from monies due to the Contractor in the event the Engineer decides that erosion and pollution controls are not in place or have not been adequately maintained.

The charge for this Contract will be \$500.00 per day.

JOB SPECIFIC

CODE: 702.9901

PROVIDENCE STANDARD RECTANGULAR FRAME AND GRATE

DESCRIPTION: This work shall consist of furnishing and installing new Providence standard rectangular frames and grates at the locations indicated on the Plans and/or as directed by the Engineer, all in accordance with the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

MATERIALS: The rectangular frame and grate shall be product number 45660040 specifically fabricated for the City of Providence by East Jordan Iron Works, 301 Spring Street, PO Box 439, East Jordan, MI 49727-0439 and shall conform to Section M.04 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

CONSTRUCTION METHODS: All construction methods shall be in accordance with City of Providence Standard Detail 6.3.6P and shall be in accordance with Section 702 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

METHOD OF MEASUREMENT: “Providence Standard Rectangular Frame and Grate” will be measured for payment by the unit “Each” of such frame and grate actually installed in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: “Providence Standard Rectangular Frame and Grate” will be paid for at the contract bid price per “Each”, as listed in the Proposal. The price so-stated shall constitute full and complete compensation for all labor, materials and equipment for furnishing and installing said assemblies and for all other incidentals required to finish the work, complete and accepted by the Engineer.

JOB SPECIFIC

CODE: 905

SIDEWALKS

DESCRIPTION: Subsection 905.03 – Failure to Comply, in the event the Engineer determines that new sidewalks have not been constructed within seven (7) consecutive calendar days after excavation as required herein, a daily charge will be deducted from monies due to the Contractor.

The charge for this Contract will be \$500.00 per day, per location for each calendar day that each location is not in compliance.

JOB SPECIFIC

**CODE: 906.0112
GRANITE CURB PROVIDENCE STANDARD 7" STRAIGHT**

**CODE: 906.0113
GRANITE CURB PROVIDENCE STANDARD 7" CIRCULAR**

**CODE: 906.9902
PROVIDENCE STANDARD GRANITE 6'-0" TRANSITION CURB,
RI STANDARD 7.3.2 MODIFIED (7")**

**CODE: 906.9903
PROVIDENCE STANDARD GRANITE RAMP STONE,
RI STANDARD 7.3.9 MODIFIED (7") - STRAIGHT**

**CODE: 906.9904
PROVIDENCE STANDARD GRANITE RAMP STONE,
RI STANDARD 7.3.9 MODIFIED (7") – CIRCULAR**

**CODE: 906.9905
PROVIDENCE STANDARD GRANITE 3'-0" TRANSITION CURB,
RI STANDARD 7.3.1 MODIFIED (7")**

**CODE: 906.9907
PROVIDENCE STANDARD GRANITE 2'-0" RADIUS CURB RETURN**

DESCRIPTION: This work shall consist of furnishing and installing granite curb at the locations indicated on the Plans and/or as directed by the Engineer, all in accordance with the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

MATERIALS: The granite curb shall conform to Subsection M.09.01 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, and shall be supplied in accordance with the dimensions indicated on the Plans.

The granite curb shall be the best compatible match to the existing granite curb that it will abut, as approved by the Engineer.

CONSTRUCTION METHODS: All construction methods shall be in accordance with City of Providence Standard Details 7.3.0P, 7.3.3P, 7.3.4P and 7.3.9P and shall be in accordance with Subsection 906.03.1 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions and the details on the Plans.

METHOD OF MEASUREMENT: “Providence Standard Granite 6’-0” Transition Curb, RI Std. 7.3.2 Modified (7)”, “Providence Standard Granite Ramp Stone, RI Std. 7.3.9 Modified (7”) - Straight”, “Providence Standard Granite Ramp Stone, RI Std. 7.3.9 Modified (7”) - Circular”, “Providence Standard Granite 3’-0” Transition Curb, RI Std. 7.3.1 Modified (7)”, and “Providence Standard Granite 2’-0” Radius Curb Return” will be measured for payment by the unit “Each” of such curbing actually installed in accordance with the Plans and/or as directed by the Engineer. “Providence Standard Granite Curb, Straight” and “Providence Standard Granite Curb, Circular” shall be measured for pavement by the unit “Linear Foot” of such curbing actually installed in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: “Providence Standard Granite 6’-0” Transition Curb, RI Std. 7.3.2 Modified (7)”, “Providence Standard Granite Ramp Stone, RI Std. 7.3.9 Modified (7”) - Straight”, “Providence Standard Granite Ramp Stone, RI Std. 7.3.9 Modified (7”) - Circular”, “Providence Standard Granite 3’-0” Transition Curb, RI Std. 7.3.1 Modified (7)”, and “Providence Standard Granite 2’-0” Radius Curb Return” will be paid for at the contract bid price per “Each”, as listed in the Proposal. “Providence Standard Granite Curb, Straight” and “Providence Standard Granite Curb, Circular” will be paid for at the contract bid price per “Linear Foot”, as listed in the Proposal. The prices so-stated constitute full and complete compensation for all labor, materials and equipment, including excavation unless otherwise noted to be paid for separately, joints, gravel borrow including compaction and trimming and fine grading unless otherwise noted to be paid for separately, backfilling, cutting of existing granite curb, disposal of excess granite materials, removal of existing sidewalk behind curb, and all other incidentals required to finish the work, complete and accepted by the Engineer.

The following work will be paid for separately under appropriate work items: sawcutting, the removal and disposal of existing pavement, both rigid and flexible, and new sidewalk.

JOB SPECIFIC

CODE: 906.9901

TRAFFIC SEPARATOR CURB WITH FLEX POST

DESCRIPTION: This work shall consist of furnishing and installing traffic separator curb with flex posts at the locations indicated on the Plans and/or as directed by the Engineer, all in accordance with the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

SUBMITTALS: The submittal requirements of this specification item include:

- A. Traffic separator curb with flex post.
- B. Concrete screw anchors.

The Contractor shall provide a sample modular unit (8"W x 2"H x 40"L) to the City of Providence for approval, prior to acquisition of the remaining pieces. Contractor shall allow a minimum of 30 days for the City of Providence to review sample.

MATERIALS: The traffic separator curb with flex posts shall meet the following requirements.

1. Dimensions: Curb modular unit: 40" x 8" x 2" Flex post:
2. Material: injection-molded plastic resistant to ultraviolet light, ozone, and hydrocarbons.
3. Weight: 6.5 lbs. per section
4. Colors: shall be the same color as the pavement edge line
5. MASH 2009 Accepted; FHWA #WZ-304, WZ-317
6. Arched Glass Element Reflectors (meeting ASTM D4280 standard, 45 degrees in each direction)

CONSTRUCTION METHODS: Traffic separator curb with flex post shall be installed per manufacturer's recommendations using FG 300 anchor bolt and drill bit that meet the following specifications:

1) Anchor Bolts

Channelizer posts shall be secured to the roadway with three (3) removable and reusable one-piece carbon steel anchor bolts with a finished hex head, integral washer, dual lead threads and chamfered tip. One-piece bolts shall be used to eliminate improper assembly; dual-thread bolts shall be used to prevent bolts spinning in holes when tightened. The anchors shall be designed to be installed in a hole that is pre-drilled using a specially matched tolerance drill bit. All bolts shall be completely removable with standard power tools.

2) Lengths

For concrete pavements, a 3/8 x 2.50 inch long anchor bolt shall be used. For asphalt pavements, a 3/8 x 4.0 inch long anchor bolt shall be used.

3) Drill Bits

For proper performance, the anchor bolts must be installed with a special bit with a matched tolerance range designed to provide optimum performance for the anchor.

4) NCHRP 350 Acceptance

The bolts shall be fully crash-tested along with their associated channelizer posts and pass the requirements of AASHTO's NTPEP Test Deck. The entire system, including bolts, bases and uprights, shall be fully crash-tested and accepted by the U.S. Department of Transportation, Federal Highway Administration (FHWA) as a Category II device per the requirements specified in NCHRP Report # 350. Certifications of acceptance to these standards must be supplied by the manufacturer upon request.

Traffic separator curb with flex posts shall be installed within 48 hours of striping completion. Cones shall be placed in the buffer space in the interim before the traffic separator curb with flex posts are installed. In the event the Engineer determines that the traffic separator curb with flex posts have not been installed within 48 hours, a daily charge will be deducted from monies due to the Contractor.

The charge for this Contract will be \$500.00 per day, project wide for each calendar day that the project is not in compliance.

METHOD OF MEASUREMENT: "Traffic Separator Curb with Flex Post" will be measured by "Each" such separator curb with flex post actually furnished and installed in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: "Traffic Separator Curb with Flex Post" will be paid for at the contract unit price per "Each" as listed in the Proposal. The price so-stated constitute full and complete compensation for all labor, materials, and equipment, and all other incidentals required to finish the work, complete and accepted by the Engineer.

JOB SPECIFIC

CODE: 907.1000

DUST CONTROL

DESCRIPTION: Subsection 907.05.3; Failure to Comply, of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, requires that a daily charge be deducted from monies due to the Contractor in the event the Engineer decides that dust has not been adequately controlled.

The charge for this Contract will be \$500.00 per day.

JOB SPECIFIC

CODE: 936.0100

MOBILIZATION AND DEMOBILIZATION

936.01 DESCRIPTION. This work consists of those efforts necessary for the movement of the Contractor's personnel and equipment to the project site and for the establishment of all the Contractor's field offices, buildings, and other facilities required for the performance of the Contract.

936.02 MATERIALS. Not applicable.

936.03 CONSTRUCTION METHODS. Not applicable.

936.04 METHOD OF MEASUREMENT. This work will be measured for payments as follows:

- a. First Payment.** The first payment of 50 percent of the lump sum bid price for Mobilization or 5 percent of the total contract amount without mobilization, whichever is the lesser, will be made on the first progress payment.
- b. Second Payment.** The second payment of 35 percent of the lump sum price for Mobilization or 3.5 percent of the total contract amount without mobilization, whichever is the lesser, will be made when the progress payment estimate of the amount earned, not including that amount earned for mobilization, is 5 percent of the total contract amount without mobilization.
- c. Third Payment.** The third payment of 15 percent of the lump sum price for Mobilization or 1.5 percent of the total contract amount without mobilization, whichever is the lesser, will be made when the progress payment estimate of the amount earned, not including that amount earned for mobilization, is 10 percent of the total contract amount without mobilization.
- d. Final Payment.** Upon completion of all the work on the project, including demobilization, payment of any amount bid for Mobilization in excess of the total amount previously paid, will be paid.

936.05 BASIS OF PAYMENT. "Mobilization and Demobilization" will be paid for at the contract lump sum price as listed in the Proposal. The price so-stated constitutes full and complete compensation for all labor, materials and equipment and other incidentals required to establish the Contractor's facilities at the site and, at the conclusion of the contract, for the complete removal thereof.

JOB SPECIFIC

CODE: 937.1000

**MAINTENANCE AND MOVEMENT OF
TRAFFIC PROTECTIVE DEVICES**

DESCRIPTION: Subsection 937.05.2; Failure to Comply, of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, requires that a daily charge be deducted from monies due to the Contractor for failure to adequately and safely maintain traffic control devices or for failure to remove and/or relocate traffic control devices for compliance with the traffic-related work restrictions included in the Transportation Management Plan or to otherwise meet changes in traffic conditions, construction operations, or other conditions affecting the safety and/or mobility of the traveling public.

- a. Maintenance.** The charge for this Contract will be \$500.00 per day.
- b. Movement.** The charge for this Contract will be \$500.00 per day.

JOB SPECIFIC

CODE: 938.1000

PRICE ADJUSTMENTS

DESCRIPTION:

- a. Liquid Asphalt Cement.** The Base Price of Liquid Asphalt Cement as required to implement Subsection 938.03.1 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, is \$542.50 per ton as of May 31, 2021.

* In the case of modified asphalt binder, this price adjustment provision shall only apply to the neat liquid asphalt component. This provision shall not apply to the modifier component, manufacture, storage, transportation or other associated costs.

- b. Diesel Fuel.** The Base Price of Diesel Fuel as required to implement Subsection 938.03.2 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, is \$2.1408 per gallon as of May 31, 2021.

- c. Steel.** The Base Price of Steel as required to implement Subsection 938.03.3 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, is:

Structural Steel See Attached per pound as of May 5, 2021;

Reinforcing Steel See Attached per pound as of May 5, 2021;

Stainless Steel See Attached per pound as of May 5, 2021;

05-05-2021

March 2021 Structural Steel & Rebar Base Prices for Contracts

Note 1: This list goes into effect March 1, 2021 and will remain in effect until revised.

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

Note 3: This list is based on the March 2021 Worksheet.

ITEM NO.	DESCRIPTION	March 2021	
		PRICE PER POUND	PRICE PER KILOGRAM
1	ASTM A615/A615M Grade 60 (AASHTO M31 Grade 420) Reinforcing Steel	\$ 0.40	\$ 0.89
2	ASTM A27 (AASHTO M103) Steel Castings, H-Pile Points & Pipe Pile Shoes (See Note (1) below.)	\$ 0.55	\$ 1.20
3	ASTM A668 / A668M (AASHTO M102) Steel Forgings	\$ 0.55	\$ 1.20
4	ASTM A108 (AASHTO M169) Steel Forgings for Shear Studs	\$ 0.61	\$ 1.35
5	ASTM A709/A709M Grade 36 / AASHTO M270M/M270 Grade 250 Structural Steel Plate	\$ 0.66	\$ 1.46
6	ASTM A709/A709M Grade 36 / AASHTO M270M/M270 Grade 250 Structural Steel Shapes	\$ 0.47	\$ 1.04
7	ASTM A709/A709M Grade 50 / AASHTO M270M/M270 Grade 345 Structural Steel Plate	\$ 0.49	\$ 1.08
8	ASTM A709/A709M Grade 50 / AASHTO M270M/M270 Grade 345 Structural Steel Shapes	\$ 0.40	\$ 0.87
9	ASTM A709/A709M Grade 50WT / AASHTO M270M/M270 Grade 345WT Structural Steel Plate	\$ 0.58	\$ 1.28
10	ASTM A709/A709M Grade 50WT / AASHTO M270M/M270 Grade 345WT Structural Steel Shapes	\$ 0.44	\$ 0.97
11	ASTM A709/A709M Grade 50W / AASHTO M270M/M270 Grade 345W Structural Steel Plate	\$ 0.53	\$ 1.16
12	ASTM A709/A709M Grade 50W / AASHTO M270M/M270 Grade 345W Structural Steel Shapes	\$ 0.41	\$ 0.90
13	ASTM A709/A709M Grade HPS 50W / AASHTO M270M/M270 Grade HPS 345W Structural Steel Plate	\$ 0.60	\$ 1.32
14	ASTM A709/A709M Grade HPS 70W / AASHTO M270M/M270 Grade HPS 485W Structural Steel Plate	\$ 0.63	\$ 1.39
15	ASTM A514/A514M-05 Grade HPS 100W / AASHTO M270M/M270 Grade HPS 690W Structural Steel Plate	\$ 0.96	\$ 2.13
16	ASTM A276 Type 316 Stainless Steel	\$ 2.86	\$ 6.31
17	ASTM A240 Type 316 Stainless Steel	\$ 2.86	\$ 6.31
18	ASTM A148 Grade 80/50 Steel Castings (See Note (1) below.)	\$ 0.99	\$ 2.19
19	AASHTO M270M/M270 Grade 345W Structural Steel Plate - same as Item #11.	Same as Item #11.	
20	AASHTO M270M/M270 Grade HPS 345W Structural Steel Plate - same as Item #13.	Same as Item #13.	
21	AASHTO M270M/M270 Grade 250 Structural Steel Plate - same as Item #5.	Same as Item #5.	
22	ASTM A53 Grade B Structural Steel Pipe	\$ 0.64	\$ 1.40
23	ASTM A500 Grades A, B, 36 & 50 Structural Steel Pipe	\$ 0.64	\$ 1.40
24	ASTM A252, Grades 240 (36 KSI) & 414 (60 KSI) Pipe Pile	\$ 0.49	\$ 1.08
25	ASTM 252, Grade 2 Permanent Steel Casing	\$ 0.49	\$ 1.08
26	ASTM A36 (AASHTO M183) H-piles, steel supports and sign supports	\$ 0.43	\$ 0.94
27	ASTM A328 / A328M, Grade 50 (AASHTO M202) Steel Sheetpiling	\$ 0.94	\$ 2.08
28	ASTM A572 / A572M, Grade 50 Sheetpiling	\$ 0.94	\$ 2.07
29	ASTM A36/36M, Grade 50	\$ 0.55	\$ 1.22
30	ASTM A570, Grade 50	\$ 0.55	\$ 1.21
31	ASTM A572 (AASHTO M223), Grade 50 H-Piles	\$ 0.40	\$ 0.89
32	ASTM A1085 Grade A (50 KSI) Steel Hollow Structural Sections (HSS), heat-treated per ASTM A1085 Supplement S1	\$ 0.64	\$ 1.41

NOTES:

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

JOB SPECIFIC

CODE: 999.0001

POLICE DETAILS

DESCRIPTION: This item consists of municipal or state uniformed police details as required and approved by the Providence Department of Public Works (PDPW) or their agent for the purpose of traffic and pedestrian control around work zones.

CONSTRUCTION METHODS: The Contractor is responsible for the scheduling of police details. The Contractor shall obtain approval from the PDPW or their agent as to the number and time frame of police details required prior to scheduling.

The PDPW will receive invoices for the police details associated with the project directly from the police department and will pay the police department directly.

METHOD OF MEASUREMENT: The amount of **POLICE DETAILS** for the bid will be per an "Allowance," which shall be an estimated cost for the entire project.

BASIS OF PAYMENT: The actual amount of compensation to the Contractor will not be compensated for this item as the City will pay the police invoices directly.

IF THE CONTRACTOR FAILS TO SHOW AND/OR PERFORM WORK ON A DAY A POLICE DETAIL WAS ORDERED, THE CONTRACTOR WILL BE RESPONSIBLE FOR PAYMENT OF THAT POLICE DETAIL.

JOB SPECIFIC

CODE: L15.9902

PINE BARK MULCH FOR EXISTING TREES

DESCRIPTION: This item shall consist of furnishing materials and performing all work necessary to install mulch at tree pits around existing trees at the locations indicated on the Plans and/or as directed by the Engineer, all in accordance with the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

MATERIALS: Mulch shall conform to Pine Bark Mulch, Subsection L.06.03.8-a of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

CONSTRUCTION METHODS: The Contractor shall place mulch at the locations shown on the Plans in accordance with Subsection L.06.03.8 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

METHODS OF MEASUREMENT: “Pine Bark Mulch for Existing Trees” will be measured by the “Square Yard” installed in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: “Pine Bark Mulch for Existing Trees” will be paid for at the contract unit price per “Square Yard” as listed in the Proposal. The price so stated constitutes full and complete compensation for all labor, materials and equipment, tools, and all other incidentals required to finish the work, complete and accepted by the Engineer.

JOB SPECIFIC

CODE: T12.9901

TRAFFIC SIGNAL CONTROLLER MODIFICATIONS

DESCRIPTION: This work shall consist of modifying the existing traffic signal controllers along Broad Street to accommodate the proposed physical changes associated with the project, including reprogramming of traffic signal timings and adjustment of video detection zones as specified herein and as shown on the plans.

CONSTRUCTION METHODS:

Maintenance of Existing Traffic Signal System

The existing signal system shall be maintained and remain in operation throughout the construction period until the modified system is ready for operation.

The Contractor shall pay for the use of police details necessary to control traffic along Broad Street due to failure of the existing system caused by operations of the Contractor.

The traffic signal controller modifications shall include any firmware update necessary to complete the proposed phasing and timing changes shown on the plans. The traffic signal controller modifications shall also include adjustment of the video detection zones as shown on the plans.

The Contractor shall schedule his/her traffic signal timing adjustments to avoid unnecessary burden to motorists.

Any temporary installations shall be in conformance with the MUTCD at all times. If an existing signal is to be turned off temporarily to allow rewiring, police detail shall be used to control traffic at the intersection.

The Contractor shall contact Providence Traffic Engineering prior to beginning any traffic signal work to coordinate review of the work.

METHOD OF MEASUREMENT: “Traffic Signal Controller Modifications” will be measured by “Lump Sum”.

BASIS OF PAYMENT: “Traffic Signal Controller Modifications” will be paid for at the contract lump sum price bid, which price shall include all labor, equipment, and incidental costs required to complete the work.

JOB SPECIFIC

CODE: T13.1000

TRAFFIC DETECTORS AND RELAYS

DESCRIPTION: Subsection T13.05.4; Failure to Comply, of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, requires that a daily charge be deducted from monies due to the Contractor for failure to satisfactorily provide roadway approaches with video or loop protection within the required period of thirty (30) calendar days.

The charge for this Contract will be \$500.00 per day per loop.

JOB SPECIFIC

CODE: T13.9903

EXTENSION BRACKET FOR PEDESTRIAN PUSHBUTTON

DESCRIPTION: This work shall consist of installing extension brackets for pedestrian pushbuttons at the locations indicated on the Plans and/or as directed by the Engineer, all in accordance with the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

MATERIALS: The materials for this work shall conform to the relevant provisions of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

The extension bracket shall be aluminum and shall match the color of the pushbutton station. The extension bracket shall be obtained from the same manufacturer as the existing or proposed pushbutton station to be extended.

CONSTRUCTION METHODS: The extension bracket for pedestrian pushbutton shall be installed in accordance with the manufacturer's recommendations. The finish location of the pushbutton station shall conform to the Manual on Uniform Traffic Control Devices, latest edition, with all revisions, and the Americans with Disabilities Act regulations.

METHOD OF MEASUREMENT: "Extension Bracket for Pedestrian Pushbutton" shall be measured for payment by the unit "Each" such bracket for proposed pedestrian pushbutton or existing pedestrian pushbutton relocated in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: "Extension Bracket for Pedestrian Pushbutton" will be paid for at the contract bid price per "Each", as listed in the Proposal. The price so-stated shall constitute full and complete compensation for all labor, materials and equipment for installing brackets for pedestrian pushbuttons including removing and stockpiling the existing pushbutton where applicable, adjusting existing wiring, and for all other incidentals required to finish the work, complete and accepted by the Engineer.

JOB SPECIFIC

CODE: T14.9901

**1-WAY PEDESTAL MOUNTED L.E.D. PEDESTRIAN SIGNAL HEAD WITH
COUNTDOWN TIMER, 12 INCH**

CODE: T14.9902

**2-WAY PEDESTAL MOUNTED L.E.D. PEDESTRIAN SIGNAL HEAD WITH
COUNTDOWN TIMER, 12 INCH**

DESCRIPTION: This work shall consist of furnishing and installing pedestrian signal heads with countdown timers at the locations indicated on the Plans and/or as directed by the Engineer, all in accordance with the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

MATERIALS:

Pedestrian Signal Housings.

All L.E.D. pedestrian signal heads supplied for this project shall be identical models of current production. Untried or prototype units shall not be acceptable.

The pedestrian signal housings shall be 12" aluminum and shall consist of two sections, as called for on the Plans. Pedestrian signal housings shall be powder coated gloss black in accordance with Section T14.9903 of these Specifications.

The upper section of the two-section housings shall be 12" and shall consist of a double message overlay combining the international symbols of a 'HAND' and 'WALKING MAN'. The symbols shall be filled in with L.E.D.'s. The lower section of the two section housings shall be a 12" countdown timer.

General.

The L.E.D. Pedestrian Signal Module and the Countdown Timer shall operate from -40 to +165°F and shall be completely sealed against dust and moisture intrusion per the requirements of MIL-STD-810F.

The measured chromaticity coordinates for the "lunar white" walking man and the "Portland orange" hand shall conform to the chromaticity requirements of the Pedestrian Traffic Control Signal Indications (PTCSI) standard.

The driver board shall drive the L.E.D.'s at a DC current not exceeding 20 mA.

The LED's shall not show any changes in color over the input line voltage range of 80 VAC to 135 VAC.

The circuitry shall ensure compatibility and proper triggering and operation of load switches and conflict monitors in use by the traffic signals.

The L.E.D. modules shall be designed to reduce the intensity of light output by 30% in response to diminished ambient light level. The dimming circuit shall have a 30-second relay to prevent interference from headlights or shadows. The L.E.D. drive current shall be regulated just as effectively when in the "dimmed" state.

L.E.D. Countdown Signal Module:

The L.E.D. Countdown Signal Module shall be Models TP12N-CD and TP12H-HM manufactured by Leotek or approved equal.

The L.E.D. Countdown Signal Module shall be made of two, dual row, 7 segment digits, 8" high, made up of 160 red L.E.D.'s, and shall be compatible with all makes and models of traffic signal controllers. The module shall be equipped with a test switch to turn on all 7 segments of both digits for verification.

The L.E.D. Countdown Signal Module shall have a microprocessor capable of setting its own time when connected to the traffic signal controller. The microprocessor shall be monitored by a watchdog circuit with a flashing L.E.D. for confirmation of proper operation. The L.E.D. Countdown Signal Module shall continuously monitor the traffic signal controller for any changes to the pedestrian phase time and re-program itself automatically if needed.

The L.E.D. Countdown Signal Module shall have two "user selectable" operating modes:

1. "Fixed Time": The timer shall count down the entire duration of the pedestrian walk and clearance times.
2. "Coordinated": The timer shall count down the duration of the clearance time only.

The L.E.D. Countdown Signal Module shall be initially set up under the "coordinated" mode.

The L.E.D. Countdown Signal Module shall have an internal conflict monitor to prevent any possible conflicts between the hand/man symbols and the countdown signals.

The L.E.D. Countdown Signal Module shall automatically clear to "0" if a flashing hand becomes solid for more than 0.750 seconds.

In the case of a power failure, the L.E.D. Countdown Signal Module shall be dark during the initial cycle for automatic reprogramming.

METHODS OF MEASUREMENT: “1-Way Pedestal Mounted L.E.D. Pedestrian Signal Head with Countdown Timer, 12 Inch” and “2-Way Pedestal Mounted L.E.D. Pedestrian Signal Head with Countdown Timer, 12 Inch” will be measured per “Each” such pedestrian signal head with countdown timer actually installed in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: “1-Way Pedestal Mounted L.E.D. Pedestrian Signal Head with Countdown Timer, 12 Inch” and “2-Way Pedestal Mounted L.E.D. Pedestrian Signal Head with Countdown Timer, 12 Inch” will be paid for at the contract unit price per “Each” as listed in the Proposal. The price so stated constitutes full compensation for all labor, equipment, tools, and all other incidentals required to finish the work, complete and accepted by the Engineer.

JOB SPECIFIC

CODE: T14.9903

TRAFFIC SIGNAL EQUIPMENT PAINTING

DESCRIPTION: This work shall conform to the applicable sections of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, and the following additions.

MATERIALS: The materials for this work shall conform to the relevant provisions of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

The outside surface of all proposed traffic signal equipment within the project shall be powder coated gloss black by the manufacturer in accordance with the manufacturer's specifications. Equipment to be painted includes pedestrian and vehicular signal heads.

CONSTRUCTION METHODS: The outside of all exposed traffic signal equipment shall be properly primed with a rust inhibitive primer specifically manufactured for use with the specified metals and powder coated gloss black as specified. The painting of the traffic signal equipment shall be done by the manufacturer in the manufacturer's factory. Painting of the equipment in the field will not be allowed.

METHODS OF MEASUREMENT: There will be no separate measurement for this item. The work under this item will be included in the respective items for the traffic signal equipment.

BASIS OF PAYMENT: Payment for "Traffic Signal Equipment Painting" will be included in the cost of the respective traffic signal equipment at the contract price as listed in the Proposal. There will be no separate payment for work included under this item.

JOB SPECIFIC

CODE: T18.9901

FLEXIBLE DELINEATOR POST

DESCRIPTION: This work shall consist of furnishing and installing flexible delineator posts at the locations indicated on the Plans and/or as directed by the Engineer, all in accordance with the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

SUBMITTALS: The submittal requirements of this specification item include:

- A. Flexible delineator post.
- B. Anchor bolts.

The Contractor shall provide a sample to the City of Providence for approval, prior to acquisition of the remaining pieces. Contractor shall allow a minimum of 30 days for the City of Providence to review sample.

MATERIALS:

1. The post shall be thermoplastic polyurethane, round post, three (3) inches in diameter. The post shall be thirty-six (36) inches in height. The flexible delineator post shall consist of a flexible, durable, non-discoloring material capable of recovering from at least 10 impacts at 55 mph. The color of the flexible delineator post shall be yellow. The post shall be compliant with the *Manual on Uniform Traffic Control Devices* (MUTCD), latest edition, and National Cooperative Highway Research Program (NCHRP) Report 350 accepted. Two 3" impact resistant brands of retro reflective sheeting shall be applied by the manufacturer to provide 360 degrees of coverage surrounding the flexible delineator post, with the top band being a maximum of 2" from the top of the tube. The sheeting shall be appropriate color to meet requirements of the MUTCD.
2. The anchor bolts shall meet the manufacturer's requirements.
3. All posts shall be provided with supplementary components necessary for installation.
4. All materials shall be new, of good quality, and without defects that would lessen the quality of the product.
5. Posts that are not compatible will be rejected.

CONSTRUCTION METHODS: The flexible delineator posts shall be installed in accordance with the manufacturer's recommendations.

Flexible delineator posts shall be installed within 48 hours of striping completion. Cones shall be placed in the buffer space in the interim before the flexible delineator posts are installed. In the event the Engineer determines that the flexible delineator posts have not been installed within 48 hours, a daily charge will be deducted from monies due to the Contractor.

The charge for this Contract will be \$500.00 per day, project wide for each calendar day that the project is not in compliance.

METHODS OF MEASUREMENT: "Flexible Delineator Posts" will be measured per "Each" such post actually installed in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: "Flexible Delineator Posts" will be paid for at the contract unit price per "Each" as listed in the Proposal. The price so stated constitutes full compensation for all labor, equipment, tools, including protection of newly installed posts from traffic, layout cleaning and sweeping, and all other incidentals required to finish the work, complete and accepted by the Engineer.

JOB SPECIFIC

CODE: T20.9901

GREEN FRICTION HIGH VISIBILITY SURFACE

DESCRIPTION: This work shall consist of furnishing and placing a Green Friction Surface (GFS) for bicycle safety, for bike boxes and approaches, lanes, and other areas such as driveway crossings and intersections, at the locations indicated on the Plans and/or as directed by the Engineer, all in accordance with this specification.

MATERIALS: All materials shall be in accordance with Section T.20 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions and this specification, as described below.

The GFS shall be comprised of furnishing and installing a green color surface per Manual of Uniform Traffic Control Devices (MUTCD), and as shown on the plans.

The GFS shall be one of the following or an approved equal:

Ennis-Flint

CycleGrip®MMAX

Methyl-Methacrylate (MMA)

Description: Green color lane surface ideal for long lane areas with low to high vehicle traffic including cross-over points such as parking lot entries/exits along the corridor.

Contact: Scott Seeley (sseeley@ennistraffic.com)

(800) 331-8118 ext. 3619

115 Todd Court

Thomasville, NC 27360

<http://www.ennisflintamericas.com/by-use/bike-and-bus-lanes/cyclegripmmax>

Transpo Industries, Inc.

Color-Safe®

Methyl-Methacrylate (MMA)

Description: Color-Safe® is your solution for long lasting bike paths, bus lanes, crosswalks, and pedestrian areas. It is an MMA based material that outperforms paint and epoxies in color retention and durability. Color-Safe® is available in standard and custom PMS colors and capable of full cure in a wide range of temperatures.

Contact: Michael S. Stenko (Mstenko@transpo.com)

(914) 636-1000

20 Jones Street

New Rochelle, NY 10801

<https://www.transpo.com/roads-highways/materials/pavement-marking-material/color-safe-bike-lanes>

QUALITY CONTROL:

A. General

The installer shall submit a minimum of three projects with the owner's contact information on which GFS has been placed within the past three years. An installer who does not meet this minimum shall be allowed if they are certified by the manufacturer to install and a manufacturer's representative is onsite during installations.

B. Quality Control (QC) Plan

The QC plan for furnishing and installing the GFS shall detail installer's key personnel, equipment, materials, proposed methods of installation, materials blending procedures, monitoring of ambient temperature, proposed methods of curing and corrective action plan. The Contractor shall submit a QC plan with any pertinent shop drawings and product literature and materials safety data to the Engineer for approval at least 30 days prior to placement of the Control Section.

C. Control Section

The Contractor shall construct a control section with a minimum area of one square yard to represent the GFS. The green color, the surface texture, materials and installation, shall be presented for acceptance and approval by the Engineer and the City of Providence prior to installation. The control section may be constructed as a GFS on the project and if accepted may remain as part of completed work.

CONSTRUCTION METHODS:

A. Construction Requirements

A manufacturer's representative shall be present at the jobsite during construction of the control section. All construction operations shall meet the manufacturer's recommendations. Final approval will be given by the Engineer.

B. Weather Limitations

The GFS shall not be placed on any wet surface or when the ambient temperature and humidity or the pavement temperature is below the manufacturer's recommendations or when the anticipated weather conditions would prevent the proper application and curing of the surface treatment as directed by the manufacturer's representative.

C. Surface Preparations

The surface shall be clean, dry and free of all dust, oil, debris and any other material that might interfere with the bond to the existing surface as recommended by the manufacturer's representative. The manufacturer's specification shall control the installation on any new HMA pavement paved in the previous 30 days with motor vehicle traffic or 60 days without motor vehicle traffic.

The contractor shall pre-treat any joints and cracks per the manufacturer's recommendation.

All existing edge line pavement markings that are adjacent to the GFS location shall be covered and protected as approved by the Engineer prior to performing surface preparation. GFS shall not be placed over existing pavement markings or rumble strips. Lane line pavement markings that conflict with the GFS installation shall be removed by methods approved by the manufacturer's representative. Any existing edge line pavement markings that are damaged during the GFS application process shall be replaced at the Contractor's expense per direction of the Engineer.

GFS shall be allowed to cure for the minimum duration as recommended by the binder component supplier's specifications and during that time the application area shall be closed to all vehicles and Contractor's equipment traffic. After placement and cure of the GFS, the Contractor shall test the finished surface to detect unbonded areas.

Excess and loose aggregate shall be removed from the traveled way and shoulders in such a way that the GFS is not damaged or disturbed. Excess aggregate that can be reused shall be clean, uncontaminated and dry, if it is to be re-used in the GFS application.

Utilities, drainage structures, curbs and any other structures within or adjacent to the treatment location shall be protected against the application of the GFS materials.

D. Surface Friction

The Contractor shall meet as a minimum the friction value for the surrounding pavement surface.

E. Application Methods

GFS shall be applied in accordance with the manufacturer's recommendations. The GFS can be applied by either mechanical or manual techniques.

METHOD OF MEASUREMENT: “Green Friction High Visibility Surface” will be measured by “Square Foot” such area actually installed in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: “Green Friction High Visibility Surface” will be paid for at the contract unit price per “Square Foot” as listed in the Proposal. The price so-stated constitutes full and complete compensation for all labor, materials, tools, equipment, testing and for all other incidentals required to finish the work, complete and accepted by the Engineer.

JOB SPECIFIC

CODE: T20.9902
EPOXY RESIN PAVEMENT MARKING – BICYCLE BOX SYMBOL

CODE: T20.9903
EPOXY RESIN PAVEMENT MARKING WORD “BIKE”

CODE: T20.9904
EPOXY RESIN PAVEMENT MARKING WORD “BUS”

CODE: T20.9905
EPOXY RESIN PAVEMENT MARKING - BICYCLE SYMBOL

CODE: T20.9906
EPOXY RESIN PAVEMENT MARKING – BICYCLE LANE YIELD LINE

DESCRIPTION: The work under this item shall consist of furnishing and installing epoxy resin pavement markings of the type and dimensions shown on the Plans.

MATERIALS: All materials shall be in accordance with Section T.20 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

CONSTRUCTION METHODS: All construction methods shall be in accordance with Section T.20 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

Pavement marking words and symbols shall be installed within 48 hours of linear striping completion. In the event the Engineer determines that the pavement marking words and symbols have not been installed within 48 hours, a daily charge will be deducted from monies due to the Contractor.

The charge for this Contract will be \$500.00 per day, project wide for each calendar day that the project is not in compliance.

METHODS OF MEASUREMENT: “Epoxy Resin Pavement Marking – Bicycle Box Symbol”, “Epoxy Resin Pavement Marking Word ‘Bike’”, “Epoxy Resin Pavement Marking Word ‘Bus’”, “Epoxy Resin Pavement Marking - Bicycle Symbol”, and “Epoxy Resin Pavement Marking – Bicycle Lane Yield Line” will be measured per “Each” such marking/symbol actually installed in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: “Epoxy Resin Pavement Marking – Bicycle Box Symbol”, “Epoxy Resin Pavement Marking Word ‘Bike’”, “Epoxy Resin Pavement Marking Word ‘Bus’”, “Epoxy Resin Pavement Marking - Bicycle Symbol”, and “Epoxy Resin Pavement Marking – Epoxy Resin

Pavement Marking – Bicycle Lane Yield Line” will be paid for at the contract unit price per “Each” as listed in the Proposal. The price so stated constitutes full compensation for all labor, equipment, tools, including protection of newly applied markings from traffic, layout cleaning and sweeping, furnishing and applying the pavement markings, and all other incidentals required to finish the work, complete and accepted by the Engineer.

**APPENDIX C.2:
TECHNICAL SPECIFICATIONS – JOB SPECIFIC
BROAD STREET IMPROVEMENTS – RESURFACING**

GENERAL PROVISIONS – JOB SPECIFIC

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JOB SPECIFIC

CODE: 201.9903

REMOVE AND RESET SIGN

DESCRIPTION: This work shall consist of removing, stockpiling, and resetting signs at the locations indicated on the Plans and/or as directed by the Engineer, all in accordance with this specification.

CONSTRUCTION METHODS: Prior to commencing sidewalk work in the area of a sign, the Contractor shall remove and stockpile the sign in another area within the project limits, as approved by the Engineer. The Contractor shall install the new sidewalk per the Plans. The Contractor shall allow the sidewalk to properly cure per Subsection 905.03.3 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, before resetting the sign. A new sign post shall be furnished, if needed. The sign shall be reset in the location from which it was removed as indicated on the Plans and/or as directed by the Engineer. The Contractor will be responsible for protecting all stockpiled signs from damage, theft, and vandalism.

METHOD OF MEASUREMENT: “Remove and Reset Sign” will be measured by “Each” such sign removed, stockpiled, and reset in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: “Remove and Reset Sign” shall be paid for at the contract unit price per “Each” as listed in the Proposal. The price so-stated constitutes full and complete compensation for all labor, materials, and equipment for removing, stockpiling, and resetting the sign, and for all other incidentals required to finish the work, complete and accepted by the Engineer.

JOB SPECIFIC

CODE: 201.9904

REMOVE AND DISPOSE BRICK CROSSWALK

DESCRIPTION: This work shall consist of removing and salvaging brick paver crosswalks at the locations indicated on the Plans and/or as directed by the Engineer, all in accordance with this specification.

CONSTRUCTION METHODS: The brick pavers indicated on the Plans shall be removed and stockpiled. The salvaged brick pavers will remain the property of the City of Providence Department of Public Works and shall be delivered to the Providence Department of Public Works – Sewer Division at 700 Allens Avenue, Providence, RI 02905. Care should be exercised so that the brick pavers are not damaged during removal and delivery. The brick pavers are not to be cleaned and shall be delivered to the City in an “as is” condition. The Contractor will be responsible for protecting all salvaged brick pavers from damage, theft, and vandalism until delivery.

All improvements, equipment, and existing surfaces disturbed, damaged or removed in the performance of this item of work, unless indicated on the Plans, shall be replaced to the satisfaction of the Engineer at no expense to the State. Any material specified for salvage that the Engineer determines is not salvageable must be removed and disposed of at no additional cost to the City.

The restoration of the pavement will be paid for separately under the appropriate item code.

METHOD OF MEASUREMENT: “Remove and Dispose Brick Crosswalk” will be measured by “Square Feet” such brick pavers removed and salvaged in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: “Remove and Dispose Brick Crosswalk” will be paid for at the contract unit price per “Square Feet” as listed in the Proposal. The price so-stated constitutes full and complete compensation for all labor, materials, and equipment, removing, stockpiling, and subsequently delivering salvaged material, legally disposing of non-salvaged material, delivery, and for all other incidentals required to finish the work, complete and accepted by the Engineer.

JOB SPECIFIC

CODE: 201.9907

REMOVE AND RELOCATE BENCH

DESCRIPTION: This work shall consist of removing and relocating a bench at the locations indicated on the Plans and/or as directed by the Engineer, all in accordance with this specification.

CONSTRUCTION METHODS: Prior to commencing sidewalk work in the area of a bench, the Contractor shall remove and relocate the bench to another area within the project limits, as indicated on the Plans and approved by the Engineer. The bench shall be re-installed in a similar method to its existing installation.

METHOD OF MEASUREMENT: “Remove and Relocate Bench” will be measured by “Each” such bench removed and relocated in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: “Remove and Relocate Bench” shall be paid for at the contract unit price per “Each” as listed in the Proposal. The price so-stated constitutes full and complete compensation for all labor, materials, and equipment for removing and relocating the bench, including any necessary attachments, and for all other incidentals required to finish the work, complete and accepted by the Engineer.

JOB SPECIFIC

CODE: 201.9908

REMOVE AND RELOCATE PLANTER

DESCRIPTION: This work shall consist of removing and relocating a planter at the locations indicated on the Plans and/or as directed by the Engineer, all in accordance with this specification.

CONSTRUCTION METHODS: Prior to commencing sidewalk work in the area of a planter, the Contractor shall remove and relocate the planter to another area within the project limits, as indicated on the Plans and approved by the Engineer. The planter shall be re-installed in a similar method to its existing installation.

METHOD OF MEASUREMENT: “Remove and Relocate Planter” will be measured by “Each” such planter removed and relocated in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: “Remove and Relocate Planter” shall be paid for at the contract unit price per “Each” as listed in the Proposal. The price so-stated constitutes full and complete compensation for all labor, materials, and equipment for removing and relocating the planter, including new bolts, if needed, and for all other incidentals required to finish the work, complete and accepted by the Engineer.

JOB SPECIFIC

CODE: 702.9902

**PROVIDENCE STANDARD GRANITE INLET STONE, RI STANDARD 7.3.5
MODIFIED (7")**

DESCRIPTION: This work shall consist of furnishing and installing granite curb at the locations indicated on the Plans and/or as directed by the Engineer, all in accordance with the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

MATERIALS: The granite curb shall conform to Subsection M.09.01 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, and shall be supplied in accordance with the dimensions indicated on the Plans.

The granite curb shall be the best compatible match to the existing granite curb that it will abut, as approved by the Engineer.

CONSTRUCTION METHODS: All construction methods shall be in accordance with City of Providence Standard Detail 7.3.5P shall be in accordance with Subsection 906.03.1 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions and the details on the Plans.

METHOD OF MEASUREMENT: "Providence Standard Granite Inlet Stone, RI Std. 7.3.5 Modified (7")" will be measured for payment by the unit "Each" of such curbing actually installed in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: "Providence Standard Granite Inlet Stone, RI Std. 7.3.5 Modified (7")" will be paid for at the contract bid price per "Each", as listed in the Proposal. The price so-stated constitute full and complete compensation for all labor, materials and equipment, including excavation unless otherwise noted to be paid for separately, joints, gravel borrow including compaction and trimming and fine grading unless otherwise noted to be paid for separately, backfilling, cutting of existing granite curb, disposal of excess granite materials, removal of existing sidewalk behind curb, and all other incidentals required to finish the work, complete and accepted by the Engineer.

The following work will be paid for separately under appropriate work items: sawcutting, the removal and disposal of existing pavement, both rigid and flexible, and new sidewalk.

JOB SPECIFIC

CODE: 702.9903

BRICK DROP INLET

DESCRIPTION: This work shall consist of constructing brick drop inlets at the locations indicated on the Plans and/or as directed by the Engineer, all in accordance with the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

MATERIALS: All material used shall conform to Subsection 702.02.1 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

CONSTRUCTION METHODS: All construction methods shall be in accordance with Subsection 702.03 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions and the details on the Plans.

METHOD OF MEASUREMENT: “Brick Drop Inlet” will be measured for payment by the unit “Each” of such curbing actually installed in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: “Brick Drop Inlet” will be paid for at the contract bid price per “Each”, as listed in the Proposal. The price so-stated shall constitute full and complete compensation for all labor, materials and equipment for constructing drainage structures including removing, stockpiling, and resetting castings, removal of protruding tree roots, excavation, furnishing, placing, and compacting backfill, including CLSM, ½-inch thick cement mortar coating on both the inside and outside wall surfaces, examining and cleaning the drainage structures before and after reconstruction, the legal disposal of all surplus excavation and/or unsuitable materials, and for all other incidentals required to finish the work, complete and accepted by the Engineer.

JOB SPECIFIC

**CODE: T11.9901
ADJUST PEDESTAL POLE TO GRADE**

**CODE: T11.9902
REMOVE AND RELOCATE PEDESTAL POLE**

DESCRIPTION: This work shall consist of adjusting a pedestal pole to grade or removing and relocating a pedestal pole at the locations indicated on the Plans and/or as directed by the Engineer, all in accordance with the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

MATERIALS: The materials for this work shall conform to the relevant provisions of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

CONSTRUCTION METHODS: All construction methods shall be in accordance with Subsection T.01.03.1 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions and the details on the Plans.

The existing pedestal pole, including pole, pedestrian signal heads, and pedestrian pushbuttons, to be adjusted or relocated shall be removed from its existing foundation, stockpiled, and secured in another area within the project limits, as approved by the Engineer. The Contractor shall take care to not damage the existing foundation when removing the pedestal pole.

The Contractor, Engineer, and City shall evaluate the condition of the foundation. If the concrete of the existing foundation is in good condition, the Contractor shall remove the top of the foundation to sufficient depth to meet proposed grade, taking care to not damage the existing conduit and wiring.

If the concrete of the existing foundation is determined to not be in good condition, the Contractor shall remove and dispose the existing foundation in its entirety, taking care to not damage the existing conduit and wiring. The Contractor shall then install a new foundation in accordance with Rhode Island Department of Transportation Standard Detail 19.4.0.

The Contractor shall ensure that the existing pedestal pole foundations and bolts are adjusted or removed, as necessary, so that no tripping hazard will exist during construction or once the final sidewalk has been installed.

The stockpiled pedestal pole shall be installed on the existing or new foundation. After rewiring, test relocated equipment and replace any equipment determined deficient.

METHOD OF MEASUREMENT: “Adjust Pedestal Pole to Grade” and “Remove and Relocate Pedestal Pole” will be measured for payment by the unit “Each” of such pedestal pole actually adjusted in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: “Adjust Pedestal Pole to Grade” and “Remove and Relocate Pedestal Pole” will be paid for at the contract bid price per “Each”, as listed in the Proposal. The price so-stated shall constitute full and complete compensation for all labor, materials and equipment for adjusting pedestal poles to grade and relocating pedestal poles including removing, stockpiling, and resetting pedestal poles, concrete, conduit, and wiring, if required, and for all other incidentals required to finish the work, complete and accepted by the Engineer.

JOB SPECIFIC

CODE: T13.9901

REMOVE AND RELOCATE PEDESTRIAN PUSHBUTTON ON POLE

CODE: T13.9902

ADJUST PEDESTRIAN PUSHBUTTON VERTICALLY ON POLE

DESCRIPTION: This work shall consist of the relocating of pedestrian pushbuttons at the locations indicated on the Plans and/or as directed by the Engineer, all in accordance with the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

MATERIALS: The materials for this work shall conform to the relevant provisions of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

CONSTRUCTION METHODS: The existing pedestrian pushbuttons shall be relocated on the existing pedestal poles as indicated on the Plans. The Contractor shall drill a hole in the existing pedestal pole in the proposed location of the pushbutton. The height of the relocated pushbutton shall be between 42 and 48 inches above the finish grade of the adjacent level landing. The Contractor shall relocate the existing pedestrian pushbutton and all wiring shall be adjusted to maintain operation of the pedestrian pushbutton. After rewiring, relocated equipment shall be tested and any equipment determined deficient shall be replaced.

The Contractor shall ensure that resulting exposed drill holes in the pedestal pole shall be sealed by a rubber plug or another method acceptable to the Engineer.

METHOD OF MEASUREMENT: “Remove and Relocate Pedestrian Pushbutton on Pole” and “Adjust Pedestrian Pushbutton Vertically on Pole” will be measured for payment by the unit “Each” such pedestrian pushbutton relocated in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: “Remove and Relocate Pedestrian Pushbutton on Pole” and “Adjust Pedestrian Pushbutton Vertically on Pole” will be paid for at the contract bid price per “Each”, as listed in the Proposal. The price so-stated shall constitute full and complete compensation for all labor, materials and equipment for relocating pedestrian pushbuttons including removing and stockpiling the existing pushbutton, adjusting existing wiring, resetting existing pedestrian pushbutton in its proposed location, sealing of resulting exposed holes, and for all other incidentals required to finish the work, complete and accepted by the Engineer.

**APPENDIX D.1:
MATERIALS TESTING AND CERTIFICATION SCHEDULE
BROAD STREET IMPROVEMENTS**

**MATERIALS TESTING AND CERTIFICATION SCHEDULE
BROAD STREET IMPROVEMENTS
JULY 2021**

ITEM NO.	QTY	ITEM DESCRIPTION	UOM	MINIMUM TESTING/CERTIFICATIONS	MIN. NO. TESTS
201.0403		REMOVE AND DISPOSE SIDEWALKS	SY	NO TEST REQUIRED	-
201.0407		REMOVE AND DISPOSE PAVEMENT AND RIGID BASE	SY	NO TEST REQUIRED	-
201.0409		REMOVE AND DISPOSE FLEXIBLE PAVEMENT	SY	NO TEST REQUIRED	-
201.0450		REMOVE AND STOCKPILE GRANITE CURB	LF	NO TEST REQUIRED	-
201.0610		REMOVE AND DISPOSE DIRECTIONAL, WARNING, REGULATORY, SERVICE, AND STREET SIGNS	EA	NO TEST REQUIRED	-
201.0626		REMOVE AND SALVAGE TRAFFIC SIGNAL EQUIPMENT	EA	NO TEST REQUIRED	-
201.9901		REMOVE, STOCKPILE, AND RESET OR RELOCATE BIKE HITCH	EA	NO TEST REQUIRED	-
201.9902		REMOVE AND SALVAGE FRAME AND GRATE OR FRAME AND COVER	EA	NO TEST REQUIRED	-
202.0100		EARTH EXCAVATION	CY	NO TEST REQUIRED	-
204.0100		TRIMMING AND FINE GRADING	SY	NO TEST REQUIRED	-
206.9901		COMPOST FILTER SOCK INLET PROTECTION	EA	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
209.0200		SILT SACK INSERT CATCH BASIN INLET PROTECTION	EA	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
212.2000		CLEANING AND MAINTENANCE OF EROSION CONTROLS	LS	NO TEST REQUIRED	-
302.0100		GRAVEL BORROW SUBBASE COURSE	CY	Soil - Acceptance Test - 1) One (1) 50 lbs sample per source or geological change for a Proctor and gradation; 2) One (1) 50 lbs sample per 1,000 CY or less for gradation; 3) One (1) field density test per 1,000 CY or less	1
401.3005		CLASS 9.5 HMA FOR MISCELLANEOUS WORK	TON	1. One (1) sample per 500 tons or less for gradation & asphalt content for Marshall projects, 750 tons or less for Superpave projects. Theoretical maximum density needed on Superpave projects only. 2. Three (3) cores per 500 tons to Determine Bulk Specific Gravity on Marshall projects. One (1) core per 750 tons for Superpave projects. 3. Two (2) density tests per type of mix. 4. Two (2) full depth cores per lane mile and or shoulder if applicable, per type of mix for depth measurements.	1
403.0300		ASPHALT EMULSION TACK COAT	SY	Liquid AC - Acceptance Test - 1) One (1) 1-quart sample per project for relevant AASHTO Tests	1
601.0300		CLASS A PORTLAND CEMENT CONCRETE	CY	1. Concrete Mix - a. Acceptance Test - 1) Four (4) cylinders for less than 100 CY, six (6) over 100 CY per 150 CY or each day's production for compressive strength tests 1. Concrete Mix - a. Acceptance Test - 2) One (1) sample per 150 CY or each day's production for slump test. 1. Concrete Mix - a. Acceptance Test - 3) One (1) sample per 150 CY or each day's production for an air content test. 2. Portland Cement - a. Acceptance Test - 1) One (1) 6 lbs sample per plant per 2 week period randomly sampled and tested every 3 months for relevant AASHTO tests. 2. Portland Cement - b. Process Control Test - 1) One (1) Mill Test Report per source, per lot of portland cement. 3. Coarse Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation. 3. Coarse Aggregate - a. Acceptance Test - 2) One (1) 150 lbs sample per year for L.A. Abrasion Tests, a sodium sulfate soundness test, specific gravity and unit weight measurements. 4. Fine Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation (fineness modulus). 4. Fine Aggregate - a. Acceptance Test - 2) One (1) 50 lbs sample per year for a gradation (fineness modulus), specific gravity, unit weight and absorption. 5. Steel Reinforcing - a. Acceptance Test - 1) Two (2) 3 foot long samples per size, per source, per year for a tension and bend test. 5. Steel Reinforcing - b. Process Control Test - 1) One (1) Mill Test Report per shipment, per size, per source, per heat number. 6. Mineral Admixture - a. Acceptance Test - 1) One (1) 6 lbs sample per plant per 2 week period randomly sampled and tested every 3 months for relevant AASHTO tests. 6. Mineral Admixture - b. Process Control Test - 1) One (1) Mill Test Report per truck load of mineral admixture (fly ash, slag, microsilica).	1
702.9901		PROVIDENCE STANDARD RECTANGULAR FRAME AND GRATE	EA	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
707.0900		ADJUST MANHOLES TO GRADE	EA	1. Concrete Mix - a. Acceptance Test - 1) Four (4) cylinders for less than 100 CY, six (6) over 100 CY per 150 CY or each day's production for compressive strength tests 1. Concrete Mix - a. Acceptance Test - 2) One (1) sample per 150 CY or each day's production for slump test. 1. Concrete Mix - a. Acceptance Test - 3) One (1) sample per 150 CY or each day's	1

				<p>production for an air content test.</p> <p>10. Certificate of Compliance - a. Process Control Test - 1) One (1) certificate of compliance per type, per source.</p> <p>2. Portland Cement - a. Process Control Test - 1) One (1) Mill Test Report per source, per lot of portland cement.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 2) One (1) 150+ lbs sample per year for L.A. Abrasion Tests, a sodium sulfate soundness test, specific gravity and unit weight measurements.</p> <p>4. Fine Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation (fineness modulus).</p> <p>4. Fine Aggregate - a. Acceptance Test - 2) One (1) 50+ lbs sample per year for a gradation (fineness modulus), specific gravity, unit weight and absorption.</p> <p>5. Steel Reinforcing - a. Acceptance Test - 1) Two (2) 3 foot long sample per size, per source, per year for a tension and bend test.</p> <p>5. Steel Reinforcing - b. Process Control Test - 1) One (1) Mill Test Report per shipment, per size, per source, per heat number.</p> <p>6. Mineral Admixture - a. Acceptance Test - 1) One (1) 6+ lbs sample per plant per 2 week period for relevant AASHTO tests.</p> <p>6. Mineral Admixture - b. Process Control Test - 1) One (1) Mill Test Report per truck load of mineral admixture (fly ash, slag, microsilica).</p> <p>7. Brick - a. Acceptance Test - 1) One (1) sample of 15 bricks of each type for absorption and compressive strength tests.</p> <p>8. Mortar Cement - a. Acceptance Test - 1) One (1) 6+ lbs sample per project, per source, per load delivered for relevant AASHTO tests.</p> <p>9. Block - a. Acceptance Test - 2) One (1) sample of 3 blocks of each type for absorption and compressive strength tests.</p>	
708.9041		CLEAN CATCH BASIN	EA	NO TEST REQUIRED	-
713.8300		ADJUST GAS GATE BOXES TO GRADE	EA	<p>1. Concrete Mix - a. Acceptance Test - 1) Four (4) cylinders for less than 100 CY, six (6) over 100 CY per 150 CY or each day's production for compressive strength tests</p> <p>1. Concrete Mix - a. Acceptance Test - 2) One (1) sample per 150 CY or each day's production for slump test.</p> <p>1. Concrete Mix - a. Acceptance Test - 3) One (1) sample per 150 CY or each day's production for an air content test.</p> <p>10. Certificate of Compliance - a. Process Control Test - 1) One (1) certificate of compliance per type, per source.</p> <p>2. Portland Cement - a. Process Control Test - 1) One (1) Mill Test Report per source, per lot of portland cement.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 2) One (1) 150+ lbs sample per year for L.A. Abrasion Tests, a sodium sulfate soundness test, specific gravity and unit weight measurements.</p> <p>4. Fine Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation (fineness modulus).</p> <p>4. Fine Aggregate - a. Acceptance Test - 2) One (1) 50+ lbs sample per year for a gradation (fineness modulus), specific gravity, unit weight and absorption.</p> <p>5. Steel Reinforcing - a. Acceptance Test - 1) Two (2) 3 foot long sample per size, per source, per year for a tension and bend test.</p> <p>5. Steel Reinforcing - b. Process Control Test - 1) One (1) Mill Test Report per shipment, per size, per source, per heat number.</p> <p>6. Mineral Admixture - a. Acceptance Test - 1) One (1) 6+ lbs sample per plant per 2 week period for relevant AASHTO tests.</p> <p>6. Mineral Admixture - b. Process Control Test - 1) One (1) Mill Test Report per truck load of mineral admixture (fly ash, slag, microsilica).</p> <p>7. Brick - a. Acceptance Test - 1) One (1) sample of 15 bricks of each type for absorption and compressive strength tests.</p> <p>8. Mortar Cement - a. Acceptance Test - 1) One (1) 6+ lbs sample per project, per source, per load delivered for relevant AASHTO tests.</p> <p>9. Block - a. Acceptance Test - 2) One (1) sample of 3 blocks of each type for absorption and compressive strength tests.</p>	1
905.0110		PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD	CY	<p>1. Concrete Mix - a. Acceptance Test - 1) Four (4) cylinders for less than 100 CY, six (6) over 100 CY per 150 CY or each day's production for compressive strength tests</p> <p>1. Concrete Mix - a. Acceptance Test - 2) One (1) sample per 150 CY or each day's production for slump test.</p> <p>1. Concrete Mix - a. Acceptance Test - 3) One (1) sample per 150 CY or each day's production for an air content test.</p> <p>2. Portland Cement - a. Acceptance Test - 1) One (1) 6 lbs sample per plant per 2 week</p>	1

				<p>period randomly sampled and tested every 3 months for relevant AASHTO tests.</p> <p>2. Portland Cement - b. Process Control Test - 1) One (1) Mill Test Report per source, per lot of portland cement.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 2) One (1) 150 lbs sample per year for L.A. Abrasion Tests, a sodium sulfate soundness test, specific gravity and unit weight measurements.</p> <p>4. Fine Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation (fineness modulus).</p> <p>4. Fine Aggregate - a. Acceptance Test - 2) One (1) 50 lbs sample per year for a gradation (fineness modulus), specific gravity, unit weight and absorption.</p> <p>5. Steel Reinforcing - a. Acceptance Test - 1) Two (2) 3 foot long samples per size, per source, per year for a tension and bend test.</p> <p>5. Steel Reinforcing - b. Process Control Test - 1) One (1) Mill Test Report per shipment, per size, per source, per heat number.</p> <p>6. Mineral Admixture - a. Acceptance Test - 1) One (1) 6 lbs sample per plant per 2 week period randomly sampled and tested every 3 months for relevant AASHTO tests.</p> <p>6. Mineral Admixture - b. Process Control Test - 1) One (1) Mill Test Report per truck load of mineral admixture (fly ash, slag, microsilica).</p>	
905.0115		PORTLAND CEMENT CONCRETE DRIVEWAY STANDARD	CY	<p>1. Concrete Mix - a. Acceptance Test - 1) Four (4) cylinders for less than 100 CY, six (6) over 100 CY per 150 CY or each day's production for compressive strength tests</p> <p>1. Concrete Mix - a. Acceptance Test - 2) One (1) sample per 150 CY or each day's production for slump test.</p> <p>1. Concrete Mix - a. Acceptance Test - 3) One (1) sample per 150 CY or each day's production for an air content test.</p> <p>2. Portland Cement - a. Acceptance Test - 1) One (1) 6 lbs sample per plant per 2 week period randomly sampled and tested every 3 months for relevant AASHTO tests.</p> <p>2. Portland Cement - b. Process Control Test - 1) One (1) Mill Test Report per source, per lot of portland cement.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 2) One (1) 150 lbs sample per year for L.A. Abrasion Tests, a sodium sulfate soundness test, specific gravity and unit weight measurements.</p> <p>4. Fine Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation (fineness modulus).</p> <p>4. Fine Aggregate - a. Acceptance Test - 2) One (1) 50 lbs sample per year for a gradation (fineness modulus), specific gravity, unit weight and absorption.</p> <p>5. Steel Reinforcing - a. Acceptance Test - 1) Two (2) 3 foot long samples per size, per source, per year for a tension and bend test.</p> <p>5. Steel Reinforcing - b. Process Control Test - 1) One (1) Mill Test Report per shipment, per size, per source, per heat number.</p> <p>6. Mineral Admixture - a. Acceptance Test - 1) One (1) 6 lbs sample per plant per 2 week period randomly sampled and tested every 3 months for relevant AASHTO tests.</p> <p>6. Mineral Admixture - b. Process Control Test - 1) One (1) Mill Test Report per truck load of mineral admixture (fly ash, slag, microsilica).</p>	1
906.0112		GRANITE CURB PROVIDENCE STANDARD 7" STRAIGHT	LF	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
906.0113		GRANITE CURB PROVIDENCE STANDARD 7" CIRCULAR	LF	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
906.0700		REMOVE, HANDLE, HAUL TRIM RESET CURB EDGING, STRAIGHT, CIRCULAR ALL TYPES	LF	NO TEST REQUIRED	-
906.9901		TRAFFIC SEPARATOR CURB WITH FLEX POST	EA	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
906.9902		PROVIDENCE STANDARD GRANITE 6'-0" TRANSITION CURB, RI STANDARD 7.3.2 MODIFIED (7")	EA	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
906.9903		PROVIDENCE STANDARD GRANITE RAMP STONE, RI STANDARD 7.3.9 MODIFIED (7") - STRAIGHT	EA	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
906.9904		PROVIDENCE STANDARD GRANITE RAMP STONE, RI STANDARD 7.3.9 MODIFIED (7") - CIRCULAR	EA	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
906.9905		PROVIDENCE STANDARD GRANITE 3'-0" TRANSITION CURB, RI STANDARD 7.3.2 MODIFIED (7")	EA	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
906.9906		REMOVE AND RELOCATE CURB RETURN	EA	NO TEST REQUIRED	1
906.9907		PROVIDENCE STANDARD GRANITE 2'-0" RADIUS CURB RETURN	EA	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
907.0200		CALCIUM CHLORIDE FOR DUST CONTROL	TON	NO TEST REQUIRED	-
914.5010		FLAGPERSONS	MHRS	NO TEST REQUIRED	-
914.5020		FLAGPERSONS - OVERTIME	MHRS	NO TEST REQUIRED	-
919.0101		TEST PITS	EA	1. Soil - a. Acceptance Test - 1) Visual Determination	1
922.0100		TEMPORARY CONSTRUCTION SIGNS STANDARD 29.1.0 AND 27.1.1	SF	1 CERTIFICATE OF COMPLIANCE PER SOURCE - 1. Membrane - a. Process Control Test - One (1) certificate of compliance per type, per size, per source (or per batch).	1

923.0105		DRUM BARRICADE STANDARD 26.2.0	BDAY	1 CERTIFICATE OF COMPLIANCE PER SOURCE - 1. Membrane - a. Process Control Test - One (1) certificate of compliance per type, per size, per source (or per batch).	1
923.0125		PLASTIC PIPE TYPE III BARRICADE STANDARD 26.3.1	EA	1 CERTIFICATE OF COMPLIANCE PER SOURCE - 1. Membrane - a. Process Control Test - One (1) certificate of compliance per type, per size, per source (or per batch).	1
923.0200		FLUORESCENT TRAFFIC CONES STANDARD 26.1.0	EA	1 CERTIFICATE OF COMPLIANCE PER SOURCE - 1. Membrane - a. Process Control Test - One (1) certificate of compliance per type, per size, per source (or per batch).	1
931.0110		CLEANING AND SWEEPING PAVEMENT	HSY	NO TEST REQUIRED	-
932.0210		FULL-DEPTH SAWCUT OF BITUMINOUS PAVEMENT AND RIGID BASE	LF	NO TEST REQUIRED	-
932.0230		FULL DEPTH SAWCUT OF PORTLAND CEMENT CONCRETE SIDEWALK/DRIVEWAY	LF	NO TEST REQUIRED	-
936.0100		MOBILIZATION AND DEMOBILIZATION	LS	NO TEST REQUIRED	-
937.0200		MAINTENANCE AND MOVEMENT OF TRAFFIC PROTECTION	LS	NO TEST REQUIRED	-
942.0200		DETECTABLE WARNING PANEL STANDARD 48.1.0	SF	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
L01.0102		LOAM BORROW 4 INCHES DEEP	SY	1. Loam - a. Acceptance Test - 1) One (1) 10+ lbs sample per source for loss on ignition, pH and gradation tests.	1
L02.0102		RESIDENTIAL SEEDING (TYPE 2)	SY	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
T04.5303		14 AWG 3 CONDUCTOR CABLE	LF	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
T04.5305		14 AWG 5 CONDUCTOR CABLE	LF	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
T04.5307		14 AWG 7 CONDUCTOR CABLE	LF	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
T05.0400		BREAK INTO EXISTING HANDHOLE	EA	NO TEST REQUIRED	-
T05.1030		ADJUST HANDHOLE TO GRADE	EA	1. Concrete Mix - a. Acceptance Test - 1) Four (4) cylinders for less than 100 CY, six (6) over 100 CY per 150 CY or each day's production for compressive strength tests 1. Concrete Mix - a. Acceptance Test - 2) One (1) sample per 150 CY or each day's production for slump test. 1. Concrete Mix - a. Acceptance Test - 3) One (1) sample per 150 CY or each day's production for an air content test. 10. Certificate of Compliance - a. Process Control Test - 1) One (1) certificate of compliance per type, per source. 2. Portland Cement - a. Process Control Test - 1) One (1) Mill Test Report per source, per lot of portland cement. 3. Coarse Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation. 3. Coarse Aggregate - a. Acceptance Test - 2) One (1) 150+ lbs sample per year for L.A. Abrasion Tests, a sodium sulfate soundness test, specific gravity and unit weight measurements. 4. Fine Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation (fineness modulus). 4. Fine Aggregate - a. Acceptance Test - 2) One (1) 50+ lbs sample per year for a gradation (fineness modulus), specific gravity, unit weight and absorption. 5. Steel Reinforcing - a. Acceptance Test - 1) Two (2) 3 foot long sample per size, per source, per year for a tension and bend test. 5. Steel Reinforcing - b. Process Control Test - 1) One (1) Mill Test Report per shipment, per size, per source, per heat number. 6. Mineral Admixture - a. Acceptance Test - 1) One (1) 6+ lbs sample per plant per 2 week period for relevant AASHTO tests. 6. Mineral Admixture - b. Process Control Test - 1) One (1) Mill Test Report per truck load of mineral admixture (fly ash, slag, microsilica). 7. Brick - a. Acceptance Test - 1) One (1) sample of 15 bricks of each type for absorption and compressive strength tests. 8. Mortar Cement - a. Acceptance Test - 1) One (1) 6+ lbs sample per project, per source, per load delivered for relevant AASHTO tests. 9. Block - a. Acceptance Test - 2) One (1) sample of 3 blocks of each type for absorption and compressive strength tests.	1
T06.5130		3 INCH SCHEDULE 40 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDERGROUND	LF	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
T11.2008		TRAFFIC SIGNAL STANDARD, 8 FOOT, STD 19.4.0 ALUMINUM PEDESTAL POLE AND FOUNDATION	EA	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
T12.9901		TRAFFIC SIGNAL CONTROLLER MODIFICATIONS	LS	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
T13.1000		TRAFFIC DETECTORS-LOOP, STANDARD 19.6.0	LF	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
T13.8210		ACCESSIBLE PEDESTRIAN DETECTOR - PUSHBUTTON WITH SIGN	EA	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
T13.9903		EXTENSION BRACKET FOR PEDESTRIAN PUSHBUTTON	EA	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
T14.3613		1 WAY 3 SECTION BRACKET MOUNTED SIGNAL HEAD 12 INCH	EA	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
T14.3911		1 WAY 3 SECTION PEDESTAL MOUNTED L.E.D. PEDESTRIAN SIGNAL HEAD 12 INCH	EA	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
T14.3912		2 WAY 3 SECTION PEDESTAL MOUNTED L.E.D. PEDESTRIAN SIGNAL HEAD 12 INCH	EA	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1

T15.0100		DIRECTIONAL REGULATORY AND WARNING SIGNS	SF	1 CERTIFICATE OF COMPLIANCE PER SOURCE FOR SIGNS AND POSTS	1
T15.0200		REMOVE AND RELOCATE DIRECTIONAL REGULATORY AND WARNING SIGN	EA	NO TEST REQUIRED	-
T20.1000		REMOVE EXISTING PAVEMENT MARKINGS	LF	NO TEST REQUIRED	-
T20.1010		REMOVE EXISTING PAVEMENT MARKINGS	EA	NO TEST REQUIRED	-
T20.0904		4 INCH YELLOW WATERBORNE PAINT PAVEMENT MARKINGS	LF	PAINT AND GLASS BEADS; 1 CERTIFICATE OF COMPLIANCE PER SOURCE, PER BATCH, 1 SAMPLE PER SOURCE, PER BATCH FOR RELEVANT TESTS	1
T20.2406		6 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS	LF	PAINT AND GLASS BEADS; 1 CERTIFICATE OF COMPLIANCE PER SOURCE, PER BATCH, 1 SAMPLE PER SOURCE, PER BATCH FOR RELEVANT TESTS	1
T20.2412		12 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS	LF	PAINT AND GLASS BEADS; 1 CERTIFICATE OF COMPLIANCE PER SOURCE, PER BATCH, 1 SAMPLE PER SOURCE, PER BATCH FOR RELEVANT TESTS	1
T20.2424		24 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS	LF	PAINT AND GLASS BEADS; 1 CERTIFICATE OF COMPLIANCE PER SOURCE, PER BATCH, 1 SAMPLE PER SOURCE, PER BATCH FOR RELEVANT TESTS	1
T20.2804		4 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS	LF	PAINT AND GLASS BEADS; 1 CERTIFICATE OF COMPLIANCE PER SOURCE, PER BATCH, 1 SAMPLE PER SOURCE, PER BATCH FOR RELEVANT TESTS	1
T20.2806		6 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS	LF	PAINT AND GLASS BEADS; 1 CERTIFICATE OF COMPLIANCE PER SOURCE, PER BATCH, 1 SAMPLE PER SOURCE, PER BATCH FOR RELEVANT TESTS	1
T20.3401		EPOXY RESIN PAVEMENT ARROW - STRAIGHT, LEFT, RIGHT, OR COMBINED STANDARD 20.1.0	EA	PAINT AND GLASS BEADS; 1 CERTIFICATE OF COMPLIANCE PER SOURCE, PER BATCH, 1 SAMPLE PER SOURCE, PER BATCH FOR RELEVANT TESTS	1
T20.3410		EPOXY RESIN PAVEMENT MARKINGS WORD "ONLY" STANDARD 20.1.0	EA	PAINT AND GLASS BEADS; 1 CERTIFICATE OF COMPLIANCE PER SOURCE, PER BATCH, 1 SAMPLE PER SOURCE, PER BATCH FOR RELEVANT TESTS	1
T20.3416		EPOXY RESIN PAVEMENT MARKING - HELMETED BICYCLIST SYMBOL WITH ARROW	EA	PAINT AND GLASS BEADS; 1 CERTIFICATE OF COMPLIANCE PER SOURCE, PER BATCH, 1 SAMPLE PER SOURCE, PER BATCH FOR RELEVANT TESTS	1
T20.9901		GREEN FRICTION HIGH VISIBILITY SURFACE	SF	PAINT AND GLASS BEADS; 1 CERTIFICATE OF COMPLIANCE PER SOURCE, PER BATCH, 1 SAMPLE PER SOURCE, PER BATCH FOR RELEVANT TESTS	1
T20.9902		EPOXY RESIN PAVEMENT MARKING - BICYCLE BOX SYMBOL	EA	PAINT AND GLASS BEADS; 1 CERTIFICATE OF COMPLIANCE PER SOURCE, PER BATCH, 1 SAMPLE PER SOURCE, PER BATCH FOR RELEVANT TESTS	1
T20.9903		EPOXY RESIN PAVEMENT MARKING WORD "BIKE"	EA	PAINT AND GLASS BEADS; 1 CERTIFICATE OF COMPLIANCE PER SOURCE, PER BATCH, 1 SAMPLE PER SOURCE, PER BATCH FOR RELEVANT TESTS	1
T20.9904		EPOXY RESIN PAVEMENT MARKING WORD "BUS"	EA	PAINT AND GLASS BEADS; 1 CERTIFICATE OF COMPLIANCE PER SOURCE, PER BATCH, 1 SAMPLE PER SOURCE, PER BATCH FOR RELEVANT TESTS	1
T20.9905		EPOXY RESIN PAVEMENT MARKING - BICYCLE SYMBOL	EA	PAINT AND GLASS BEADS; 1 CERTIFICATE OF COMPLIANCE PER SOURCE, PER BATCH, 1 SAMPLE PER SOURCE, PER BATCH FOR RELEVANT TESTS	1
T20.9906		EPOXY RESIN PAVEMENT MARKING - BIKE YIELD LINE SYMBOL	EA	PAINT AND GLASS BEADS; 1 CERTIFICATE OF COMPLIANCE PER SOURCE, PER BATCH, 1 SAMPLE PER SOURCE, PER BATCH FOR RELEVANT TESTS	1

**MATERIALS TESTING AND CERTIFICATION SCHEDULE
BROAD STREET IMPROVEMENTS
JULY 2021**

ADJUSTING STRUCTURE AND PAVER ITEMS - TESTING FOR ITEMS BELOW SHALL INCLUDE:

BRICKS/BLOCKS: 1 SAMPLE OF 15 BRICKS OR 3 BLOCKS OF EACH TYPE FOR ABSORPTION AND COMPRESSIVE STRENGTH TESTS.

MORTAR ITEMS: SAMPLE PER PROJECT, PER RAILROAD CAR LOAD FOR AASHTO TESTS.

CODE	ITEM DESCRIPTION	UOM
707.0900	ADJUST MANHOLES TO GRADE	EACH
713.8300	ADJUST GAS GATE BOXES TO GRADE	EACH
T05.1030	ADJUST HANDHOLE TO GRADE	EACH

NOTES:

1. ALL MATERIALS SAMPLING AND TESTING TO BE PERFORMED BY CITY OF PROVIDENCE OR CITY'S DESIGNATED REPRESENTATIVE.
2. TESTING FREQUENCIES ARE MINIMUMS AND SUBJECT TO MODIFICATION BY THE CITY OF PROVIDENCE WITH APPROVAL FROM RIDOT DUE TO PROJECT CONSIDERATIONS.
3. CONTRACTOR TO PROVIDE 48 HOUR ADVANCED NOTICE TO CITY OF PROVIDENCE PRIOR TO DELIVERY OF ANY MATERIALS TO BE TESTED UNDER THIS SCHEDULE.
4. CONTRACTOR TO PROVIDE 48 HOUR ADVANCED NOTICE TO CITY OF PROVIDENCE PRIOR TO FABRICATION OF PRECAST STRUCTURES TO BE INSPECTED AT THE PLANT.
5. THIS SCHEDULE WAS PREPARED IN ACCORDANCE WITH THE RIDOT MASTER SCHEDULE FOR THE PREPARATION OF A PROJECT SCHEDULE FOR SAMPLING, TESTING, AND CERTIFICATION OF MATERIALS, 1998 EDITION (MST) AND ALL UPDATES.
6. MATERIALS SAMPLE SIZE SHALL BE PER THE RIDOT MST. MST CAN BE ACCESSED AT: <http://www.dot.state.ri.us/documents/engineering/research/materials/MasterSchedulev1998.pdf>
7. RIDOT LISTS FOR APPROVED PRODUCTS, PLANTS, CONCRETE AND BITUMINOUS MIXES CAN BE ACCESSED AT: http://www.dot.ri.gov/engineering/materials_research/Approvals/index.asp

**APPENDIX D.2:
MATERIALS TESTING AND CERTIFICATION SCHEDULE
BROAD STREET IMPROVEMENTS – RESURFACING**

**MATERIALS TESTING AND CERTIFICATION SCHEDULE
BROAD STREET IMPROVEMENTS
RESURFACING ADD-ALTERNATE
JULY 2021**

ITEM NO.	QTY	ITEM DESCRIPTION	UOM	MINIMUM TESTING/CERTIFICATIONS	MIN. NO. TESTS
201.9903		REMOVE AND RESET SIGN	EA	NO TEST REQUIRED	-
201.9904		REMOVE AND DISPOSE BRICK CROSSWALK	SF	NO TEST REQUIRED	-
201.9905		ABANDON EXISTING SIGNAL HANDHOLE	EA	NO TEST REQUIRED	-
201.9906		REMOVE AND DISPOSE TRASH RECEPTACLE	EA	NO TEST REQUIRED	-
201.9907		REMOVE AND RELOCATE BENCH	EA	NO TEST REQUIRED	-
201.9908		REMOVE AND RELOCATE PLANTER	EA	NO TEST REQUIRED	-
401.3000		CLASS 9.5 HMA	TON	1. One (1) sample per 500 tons or less for gradation & asphalt content for Marshall projects, 750 tons or less for Superpave projects. Theoretical maximum density needed on Superpave projects only. 2. Three (3) cores per 500 tons to Determine Bulk Specific Gravity on Marshall projects. One (1) core per 750 tons for Superpave projects. 3. Two (2) density tests per type of mix. 4. Two (2) full depth cores per lane mile and or shoulder if applicable, per type of mix for depth measurements.	1
401.3003		CLASS 9.5 HMA FOR PATCHING	TON	1. One (1) sample per 500 tons or less for gradation & asphalt content for Marshall projects, 750 tons or less for Superpave projects. Theoretical maximum density needed on Superpave projects only. 2. Three (3) cores per 500 tons to Determine Bulk Specific Gravity on Marshall projects. One (1) core per 750 tons for Superpave projects. 3. Two (2) density tests per type of mix. 4. Two (2) full depth cores per lane mile and or shoulder if applicable, per type of mix for depth measurements.	1
702.9902		PROVIDENCE STANDARD GRANITE INLET STONE 5 FOOT STANDARD 7.3.5	EA	1 CERTIFICATE OF COMPLIANCE PER SOURCE	1
702.9903		BRICK DROP INLET	EA	1. Concrete Mix - a. Acceptance Test - 1) Four (4) cylinders for less than 100 CY, six (6) over 100 CY per 150 CY or each day's production for compressive strength tests 1. Concrete Mix - a. Acceptance Test - 2) One (1) sample per 150 CY or each day's production for slump test. 1. Concrete Mix - a. Acceptance Test - 3) One (1) sample per 150 CY or each day's production for an air content test. 10. Certificate of Compliance - a. Process Control Test - 1) One (1) certificate of compliance per type, per source. 2. Portland Cement - a. Process Control Test - 1) One (1) Mill Test Report per source, per lot of portland cement. 3. Coarse Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation. 3. Coarse Aggregate - a. Acceptance Test - 2) One (1) 150+ lbs sample per year for L.A. Abrasion Tests, a sodium sulfate soundness test, specific gravity and unit weight measurements. 4. Fine Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation (fineness modulus). 4. Fine Aggregate - a. Acceptance Test - 2) One (1) 50+ lbs sample per year for a gradation (fineness modulus), specific gravity, unit weight and absorption. 5. Steel Reinforcing - a. Acceptance Test - 1) Two (2) 3 foot long sample per size, per source, per year for a tension and bend test. 5. Steel Reinforcing - b. Process Control Test - 1) One (1) Mill Test Report per shipment, per size, per source, per heat number. 6. Mineral Admixture - a. Acceptance Test - 1) One (1) 6+ lbs sample per plant per 2 week period for relevant AASHTO tests. 6. Mineral Admixture - b. Process Control Test - 1) One (1) Mill Test Report per truck load of mineral admixture (fly ash, slag, microsilica). 7. Brick - a. Acceptance Test - 1) One (1) sample of 15 bricks of each type for absorption and compressive strength tests. 8. Mortar Cement - a. Acceptance Test - 1) One (1) 6+ lbs sample per project, per source, per load delivered for relevant AASHTO tests. 9. Block - a. Acceptance Test - 2) One (1) sample of 3 blocks of each type for absorption and compressive strength tests.	1
704.0300		RECONSTRUCT CATCH BASIN/VERTICAL WALLS	VLF	1. Concrete Mix - a. Acceptance Test - 1) Four (4) cylinders for less than 100 CY, six (6) over 100 CY per 150 CY or each day's production for compressive strength tests 1. Concrete Mix - a. Acceptance Test - 2) One (1) sample per 150 CY or each day's production for slump test.	1

				<p>1. Concrete Mix - a. Acceptance Test - 3) One (1) sample per 150 CY or each day's production for an air content test.</p> <p>10. Certificate of Compliance - a. Process Control Test - 1) One (1) certificate of compliance per type, per source.</p> <p>2. Portland Cement - a. Process Control Test - 1) One (1) Mill Test Report per source, per lot of portland cement.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 2) One (1) 150+ lbs sample per year for L.A. Abrasion Tests, a sodium sulfate soundness test, specific gravity and unit weight measurements.</p> <p>4. Fine Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation (fineness modulus).</p> <p>4. Fine Aggregate - a. Acceptance Test - 2) One (1) 50+ lbs sample per year for a gradation (fineness modulus), specific gravity, unit weight and absorption.</p> <p>5. Steel Reinforcing - a. Acceptance Test - 1) Two (2) 3 foot long sample per size, per source, per year for a tension and bend test.</p> <p>5. Steel Reinforcing - b. Process Control Test - 1) One (1) Mill Test Report per shipment, per size, per source, per heat number.</p> <p>6. Mineral Admixture - a. Acceptance Test - 1) One (1) 6+ lbs sample per plant per 2 week period for relevant AASHTO tests.</p> <p>6. Mineral Admixture - b. Process Control Test - 1) One (1) Mill Test Report per truck load of mineral admixture (fly ash, slag, microsilica).</p> <p>7. Brick - a. Acceptance Test - 1) One (1) sample of 15 bricks of each type for absorption and compressive strength tests.</p> <p>8. Mortar Cement - a. Acceptance Test - 1) One (1) 6+ lbs sample per project, per source, per load delivered for relevant AASHTO tests.</p> <p>9. Block - a. Acceptance Test - 2) One (1) sample of 3 blocks of each type for absorption and compressive strength tests.</p>	
707.0950		ADJUST TELEPHONE MANHOLE TO GRADE	EA	<p>1. Concrete Mix - a. Acceptance Test - 1) Four (4) cylinders for less than 100 CY, six (6) over 100 CY per 150 CY or each day's production for compressive strength tests</p> <p>1. Concrete Mix - a. Acceptance Test - 2) One (1) sample per 150 CY or each day's production for slump test.</p> <p>1. Concrete Mix - a. Acceptance Test - 3) One (1) sample per 150 CY or each day's production for an air content test.</p> <p>10. Certificate of Compliance - a. Process Control Test - 1) One (1) certificate of compliance per type, per source.</p> <p>2. Portland Cement - a. Process Control Test - 1) One (1) Mill Test Report per source, per lot of portland cement.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 2) One (1) 150+ lbs sample per year for L.A. Abrasion Tests, a sodium sulfate soundness test, specific gravity and unit weight measurements.</p> <p>4. Fine Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation (fineness modulus).</p> <p>4. Fine Aggregate - a. Acceptance Test - 2) One (1) 50+ lbs sample per year for a gradation (fineness modulus), specific gravity, unit weight and absorption.</p> <p>5. Steel Reinforcing - a. Acceptance Test - 1) Two (2) 3 foot long sample per size, per source, per year for a tension and bend test.</p> <p>5. Steel Reinforcing - b. Process Control Test - 1) One (1) Mill Test Report per shipment, per size, per source, per heat number.</p> <p>6. Mineral Admixture - a. Acceptance Test - 1) One (1) 6+ lbs sample per plant per 2 week period for relevant AASHTO tests.</p> <p>6. Mineral Admixture - b. Process Control Test - 1) One (1) Mill Test Report per truck load of mineral admixture (fly ash, slag, microsilica).</p> <p>7. Brick - a. Acceptance Test - 1) One (1) sample of 15 bricks of each type for absorption and compressive strength tests.</p> <p>8. Mortar Cement - a. Acceptance Test - 1) One (1) 6+ lbs sample per project, per source, per load delivered for relevant AASHTO tests.</p> <p>9. Block - a. Acceptance Test - 2) One (1) sample of 3 blocks of each type for absorption and compressive strength tests.</p>	1
707.0955		ADJUST ELETRICAL MANHOLE TO GRADE	EA	<p>1. Concrete Mix - a. Acceptance Test - 1) Four (4) cylinders for less than 100 CY, six (6) over 100 CY per 150 CY or each day's production for compressive strength tests</p> <p>1. Concrete Mix - a. Acceptance Test - 2) One (1) sample per 150 CY or each day's production for slump test.</p> <p>1. Concrete Mix - a. Acceptance Test - 3) One (1) sample per 150 CY or each day's production for an air content test.</p> <p>10. Certificate of Compliance - a. Process Control Test - 1) One (1) certificate of compliance</p>	1

				<p>per type, per source.</p> <p>2. Portland Cement - a. Process Control Test - 1) One (1) Mill Test Report per source, per lot of portland cement.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 2) One (1) 150+ lbs sample per year for L.A. Abrasion Tests, a sodium sulfate soundness test, specific gravity and unit weight measurements.</p> <p>4. Fine Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation (fineness modulus).</p> <p>4. Fine Aggregate - a. Acceptance Test - 2) One (1) 50+ lbs sample per year for a gradation (fineness modulus), specific gravity, unit weight and absorption.</p> <p>5. Steel Reinforcing - a. Acceptance Test - 1) Two (2) 3 foot long sample per size, per source, per year for a tension and bend test.</p> <p>5. Steel Reinforcing - b. Process Control Test - 1) One (1) Mill Test Report per shipment, per size, per source, per heat number.</p> <p>6. Mineral Admixture - a. Acceptance Test - 1) One (1) 6+ lbs sample per plant per 2 week period for relevant AASHTO tests.</p> <p>6. Mineral Admixture - b. Process Control Test - 1) One (1) Mill Test Report per truck load of mineral admixture (fly ash, slag, microsilica).</p> <p>7. Brick - a. Acceptance Test - 1) One (1) sample of 15 bricks of each type for absorption and compressive strength tests.</p> <p>8. Mortar Cement - a. Acceptance Test - 1) One (1) 6+ lbs sample per project, per source, per load delivered for relevant AASHTO tests.</p> <p>9. Block - a. Acceptance Test - 2) One (1) sample of 3 blocks of each type for absorption and compressive strength tests.</p>	
707.1000		ADJUST SANITARY MANHOLE TO GRADE	EA	<p>1. Concrete Mix - a. Acceptance Test - 1) Four (4) cylinders for less than 100 CY, six (6) over 100 CY per 150 CY or each day's production for compressive strength tests</p> <p>1. Concrete Mix - a. Acceptance Test - 2) One (1) sample per 150 CY or each day's production for slump test.</p> <p>1. Concrete Mix - a. Acceptance Test - 3) One (1) sample per 150 CY or each day's production for an air content test.</p> <p>10. Certificate of Compliance - a. Process Control Test - 1) One (1) certificate of compliance per type, per source.</p> <p>2. Portland Cement - a. Process Control Test - 1) One (1) Mill Test Report per source, per lot of portland cement.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 2) One (1) 150+ lbs sample per year for L.A. Abrasion Tests, a sodium sulfate soundness test, specific gravity and unit weight measurements.</p> <p>4. Fine Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation (fineness modulus).</p> <p>4. Fine Aggregate - a. Acceptance Test - 2) One (1) 50+ lbs sample per year for a gradation (fineness modulus), specific gravity, unit weight and absorption.</p> <p>5. Steel Reinforcing - a. Acceptance Test - 1) Two (2) 3 foot long sample per size, per source, per year for a tension and bend test.</p> <p>5. Steel Reinforcing - b. Process Control Test - 1) One (1) Mill Test Report per shipment, per size, per source, per heat number.</p> <p>6. Mineral Admixture - a. Acceptance Test - 1) One (1) 6+ lbs sample per plant per 2 week period for relevant AASHTO tests.</p> <p>6. Mineral Admixture - b. Process Control Test - 1) One (1) Mill Test Report per truck load of mineral admixture (fly ash, slag, microsilica).</p> <p>7. Brick - a. Acceptance Test - 1) One (1) sample of 15 bricks of each type for absorption and compressive strength tests.</p> <p>8. Mortar Cement - a. Acceptance Test - 1) One (1) 6+ lbs sample per project, per source, per load delivered for relevant AASHTO tests.</p> <p>9. Block - a. Acceptance Test - 2) One (1) sample of 3 blocks of each type for absorption and compressive strength tests.</p>	1
707.1100		ADJUST CATCH BASINS	EA	<p>1. Concrete Mix - a. Acceptance Test - 1) Four (4) cylinders for less than 100 CY, six (6) over 100 CY per 150 CY or each day's production for compressive strength tests</p> <p>1. Concrete Mix - a. Acceptance Test - 2) One (1) sample per 150 CY or each day's production for slump test.</p> <p>1. Concrete Mix - a. Acceptance Test - 3) One (1) sample per 150 CY or each day's production for an air content test.</p> <p>10. Certificate of Compliance - a. Process Control Test - 1) One (1) certificate of compliance per type, per source.</p> <p>2. Portland Cement - a. Process Control Test - 1) One (1) Mill Test Report per source, per lot of portland cement.</p>	1

				<p>3. Coarse Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 2) One (1) 150+ lbs sample per year for L.A. Abrasion Tests, a sodium sulfate soundness test, specific gravity and unit weight measurements.</p> <p>4. Fine Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation (fineness modulus).</p> <p>4. Fine Aggregate - a. Acceptance Test - 2) One (1) 50+ lbs sample per year for a gradation (fineness modulus), specific gravity, unit weight and absorption.</p> <p>5. Steel Reinforcing - a. Acceptance Test - 1) Two (2) 3 foot long sample per size, per source, per year for a tension and bend test.</p> <p>5. Steel Reinforcing - b. Process Control Test - 1) One (1) Mill Test Report per shipment, per size, per source, per heat number.</p> <p>6. Mineral Admixture - a. Acceptance Test - 1) One (1) 6+ lbs sample per plant per 2 week period for relevant AASHTO tests.</p> <p>6. Mineral Admixture - b. Process Control Test - 1) One (1) Mill Test Report per truck load of mineral admixture (fly ash, slag, microsilica).</p> <p>7. Brick - a. Acceptance Test - 1) One (1) sample of 15 bricks of each type for absorption and compressive strength tests.</p> <p>8. Mortar Cement - a. Acceptance Test - 1) One (1) 6+ lbs sample per project, per source, per load delivered for relevant AASHTO tests.</p> <p>9. Block - a. Acceptance Test - 2) One (1) sample of 3 blocks of each type for absorption and compressive strength tests.</p>	
707.2000		ADJUST FRAME AND GRATE TO GRADE	EA	<p>1. Concrete Mix - a. Acceptance Test - 1) Four (4) cylinders for less than 100 CY, six (6) over 100 CY per 150 CY or each day's production for compressive strength tests</p> <p>1. Concrete Mix - a. Acceptance Test - 2) One (1) sample per 150 CY or each day's production for slump test.</p> <p>1. Concrete Mix - a. Acceptance Test - 3) One (1) sample per 150 CY or each day's production for an air content test.</p> <p>10. Certificate of Compliance - a. Process Control Test - 1) One (1) certificate of compliance per type, per source.</p> <p>2. Portland Cement - a. Process Control Test - 1) One (1) Mill Test Report per source, per lot of portland cement.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 2) One (1) 150+ lbs sample per year for L.A. Abrasion Tests, a sodium sulfate soundness test, specific gravity and unit weight measurements.</p> <p>4. Fine Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation (fineness modulus).</p> <p>4. Fine Aggregate - a. Acceptance Test - 2) One (1) 50+ lbs sample per year for a gradation (fineness modulus), specific gravity, unit weight and absorption.</p> <p>5. Steel Reinforcing - a. Acceptance Test - 1) Two (2) 3 foot long sample per size, per source, per year for a tension and bend test.</p> <p>5. Steel Reinforcing - b. Process Control Test - 1) One (1) Mill Test Report per shipment, per size, per source, per heat number.</p> <p>6. Mineral Admixture - a. Acceptance Test - 1) One (1) 6+ lbs sample per plant per 2 week period for relevant AASHTO tests.</p> <p>6. Mineral Admixture - b. Process Control Test - 1) One (1) Mill Test Report per truck load of mineral admixture (fly ash, slag, microsilica).</p> <p>7. Brick - a. Acceptance Test - 1) One (1) sample of 15 bricks of each type for absorption and compressive strength tests.</p> <p>8. Mortar Cement - a. Acceptance Test - 1) One (1) 6+ lbs sample per project, per source, per load delivered for relevant AASHTO tests.</p> <p>9. Block - a. Acceptance Test - 2) One (1) sample of 3 blocks of each type for absorption and compressive strength tests.</p>	1
707.9901		ADJUST DRAINAGE MANHOLE TO GRADE	EA	<p>1. Concrete Mix - a. Acceptance Test - 1) Four (4) cylinders for less than 100 CY, six (6) over 100 CY per 150 CY or each day's production for compressive strength tests</p> <p>1. Concrete Mix - a. Acceptance Test - 2) One (1) sample per 150 CY or each day's production for slump test.</p> <p>1. Concrete Mix - a. Acceptance Test - 3) One (1) sample per 150 CY or each day's production for an air content test.</p> <p>10. Certificate of Compliance - a. Process Control Test - 1) One (1) certificate of compliance per type, per source.</p> <p>2. Portland Cement - a. Process Control Test - 1) One (1) Mill Test Report per source, per lot of portland cement.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 2) One (1) 150+ lbs sample per year for L.A. Abrasion Tests, a sodium sulfate soundness test, specific gravity and unit weight</p>	1

				<p>measurements.</p> <p>4. Fine Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation (fineness modulus).</p> <p>4. Fine Aggregate - a. Acceptance Test - 2) One (1) 50+ lbs sample per year for a gradation (fineness modulus), specific gravity, unit weight and absorption.</p> <p>5. Steel Reinforcing - a. Acceptance Test - 1) Two (2) 3 foot long sample per size, per source, per year for a tension and bend test.</p> <p>5. Steel Reinforcing - b. Process Control Test - 1) One (1) Mill Test Report per shipment, per size, per source, per heat number.</p> <p>6. Mineral Admixture - a. Acceptance Test - 1) One (1) 6+ lbs sample per plant per 2 week period for relevant AASHTO tests.</p> <p>6. Mineral Admixture - b. Process Control Test - 1) One (1) Mill Test Report per truck load of mineral admixture (fly ash, slag, microsilica).</p> <p>7. Brick - a. Acceptance Test - 1) One (1) sample of 15 bricks of each type for absorption and compressive strength tests.</p> <p>8. Mortar Cement - a. Acceptance Test - 1) One (1) 6+ lbs sample per project, per source, per load delivered for relevant AASHTO tests.</p> <p>9. Block - a. Acceptance Test - 2) One (1) sample of 3 blocks of each type for absorption and compressive strength tests.</p>	
713.8269		ADJUST WATER GATE BOXES TO GRADE	EA	<p>1. Concrete Mix - a. Acceptance Test - 1) Four (4) cylinders for less than 100 CY, six (6) over 100 CY per 150 CY or each day's production for compressive strength tests</p> <p>1. Concrete Mix - a. Acceptance Test - 2) One (1) sample per 150 CY or each day's production for slump test.</p> <p>1. Concrete Mix - a. Acceptance Test - 3) One (1) sample per 150 CY or each day's production for an air content test.</p> <p>10. Certificate of Compliance - a. Process Control Test - 1) One (1) certificate of compliance per type, per source.</p> <p>2. Portland Cement - a. Process Control Test - 1) One (1) Mill Test Report per source, per lot of portland cement.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 2) One (1) 150+ lbs sample per year for L.A. Abrasion Tests, a sodium sulfate soundness test, specific gravity and unit weight measurements.</p> <p>4. Fine Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation (fineness modulus).</p> <p>4. Fine Aggregate - a. Acceptance Test - 2) One (1) 50+ lbs sample per year for a gradation (fineness modulus), specific gravity, unit weight and absorption.</p> <p>5. Steel Reinforcing - a. Acceptance Test - 1) Two (2) 3 foot long sample per size, per source, per year for a tension and bend test.</p> <p>5. Steel Reinforcing - b. Process Control Test - 1) One (1) Mill Test Report per shipment, per size, per source, per heat number.</p> <p>6. Mineral Admixture - a. Acceptance Test - 1) One (1) 6+ lbs sample per plant per 2 week period for relevant AASHTO tests.</p> <p>6. Mineral Admixture - b. Process Control Test - 1) One (1) Mill Test Report per truck load of mineral admixture (fly ash, slag, microsilica).</p> <p>7. Brick - a. Acceptance Test - 1) One (1) sample of 15 bricks of each type for absorption and compressive strength tests.</p> <p>8. Mortar Cement - a. Acceptance Test - 1) One (1) 6+ lbs sample per project, per source, per load delivered for relevant AASHTO tests.</p> <p>9. Block - a. Acceptance Test - 2) One (1) sample of 3 blocks of each type for absorption and compressive strength tests.</p>	1
713.8300		ADJUST GAS GATE BOXES TO GRADE	EA	<p>1. Concrete Mix - a. Acceptance Test - 1) Four (4) cylinders for less than 100 CY, six (6) over 100 CY per 150 CY or each day's production for compressive strength tests</p> <p>1. Concrete Mix - a. Acceptance Test - 2) One (1) sample per 150 CY or each day's production for slump test.</p> <p>1. Concrete Mix - a. Acceptance Test - 3) One (1) sample per 150 CY or each day's production for an air content test.</p> <p>10. Certificate of Compliance - a. Process Control Test - 1) One (1) certificate of compliance per type, per source.</p> <p>2. Portland Cement - a. Process Control Test - 1) One (1) Mill Test Report per source, per lot of portland cement.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 2) One (1) 150+ lbs sample per year for L.A. Abrasion Tests, a sodium sulfate soundness test, specific gravity and unit weight measurements.</p> <p>4. Fine Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation (fineness modulus).</p>	1

				<p>4. Fine Aggregate - a. Acceptance Test - 2) One (1) 50+ lbs sample per year for a gradation (fineness modulus), specific gravity, unit weight and absorption.</p> <p>5. Steel Reinforcing - a. Acceptance Test - 1) Two (2) 3 foot long sample per size, per source, per year for a tension and bend test.</p> <p>5. Steel Reinforcing - b. Process Control Test - 1) One (1) Mill Test Report per shipment, per size, per source, per heat number.</p> <p>6. Mineral Admixture - a. Acceptance Test - 1) One (1) 6+ lbs sample per plant per 2 week period for relevant AASHTO tests.</p> <p>6. Mineral Admixture - b. Process Control Test - 1) One (1) Mill Test Report per truck load of mineral admixture (fly ash, slag, microsilica).</p> <p>7. Brick - a. Acceptance Test - 1) One (1) sample of 15 bricks of each type for absorption and compressive strength tests.</p> <p>8. Mortar Cement - a. Acceptance Test - 1) One (1) 6+ lbs sample per project, per source, per load delivered for relevant AASHTO tests.</p> <p>9. Block - a. Acceptance Test - 2) One (1) sample of 3 blocks of each type for absorption and compressive strength tests.</p>	
713.9901		ADJUST UNKNOWN GATE TO GRADE	EA	<p>1. Concrete Mix - a. Acceptance Test - 1) Four (4) cylinders for less than 100 CY, six (6) over 100 CY per 150 CY or each day's production for compressive strength tests</p> <p>1. Concrete Mix - a. Acceptance Test - 2) One (1) sample per 150 CY or each day's production for slump test.</p> <p>1. Concrete Mix - a. Acceptance Test - 3) One (1) sample per 150 CY or each day's production for an air content test.</p> <p>10. Certificate of Compliance - a. Process Control Test - 1) One (1) certificate of compliance per type, per source.</p> <p>2. Portland Cement - a. Process Control Test - 1) One (1) Mill Test Report per source, per lot of portland cement.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation.</p> <p>3. Coarse Aggregate - a. Acceptance Test - 2) One (1) 150+ lbs sample per year for L.A. Abrasion Tests, a sodium sulfate soundness test, specific gravity and unit weight measurements.</p> <p>4. Fine Aggregate - a. Acceptance Test - 1) One (1) sample per 150 CY for a gradation (fineness modulus).</p> <p>4. Fine Aggregate - a. Acceptance Test - 2) One (1) 50+ lbs sample per year for a gradation (fineness modulus), specific gravity, unit weight and absorption.</p> <p>5. Steel Reinforcing - a. Acceptance Test - 1) Two (2) 3 foot long sample per size, per source, per year for a tension and bend test.</p> <p>5. Steel Reinforcing - b. Process Control Test - 1) One (1) Mill Test Report per shipment, per size, per source, per heat number.</p> <p>6. Mineral Admixture - a. Acceptance Test - 1) One (1) 6+ lbs sample per plant per 2 week period for relevant AASHTO tests.</p> <p>6. Mineral Admixture - b. Process Control Test - 1) One (1) Mill Test Report per truck load of mineral admixture (fly ash, slag, microsilica).</p> <p>7. Brick - a. Acceptance Test - 1) One (1) sample of 15 bricks of each type for absorption and compressive strength tests.</p> <p>8. Mortar Cement - a. Acceptance Test - 1) One (1) 6+ lbs sample per project, per source, per load delivered for relevant AASHTO tests.</p> <p>9. Block - a. Acceptance Test - 2) One (1) sample of 3 blocks of each type for absorption and compressive strength tests.</p>	1
906.0700		REMOVE, HANDLE, HAUL TRIM RESET CURB EDGING, STRAIGHT, CIRCULAR ALL TYPES	LF	NO TEST REQUIRED	-
932.0100		CUTTING AND MATCHING ASPHALT	LF	NO TEST REQUIRED	-
T05.0200		PRECASE TYPE H HEAVY DUTY HANDHOLE STANDARD 18.2.1	EA	NO TEST REQUIRED	-
T11.9901		ADJUST PEDESTAL POLE TO GRADE	EA	NO TEST REQUIRED	-
T11.9902		REMOVE AND RELOCATE PEDESTAL POLE	EA	NO TEST REQUIRED	-
T13.9901		REMOVE AND RELOCATE PEDESTRIAN PUSHBUTTON ON POLE	EA	NO TEST REQUIRED	-
T13.9902		ADJUST PEDESTRIAN PUSHBUTTON VERTICALLY ON POLE	EA	NO TEST REQUIRED	-

**MATERIALS TESTING AND CERTIFICATION SCHEDULE
BROAD STREET IMPROVEMENTS
RESURFACING ADD-ALTERNATE
JULY 2021**

ADJUSTING STRUCTURE AND PAVER ITEMS - TESTING FOR ITEMS BELOW SHALL INCLUDE:

BRICKS/BLOCKS: 1 SAMPLE OF 15 BRICKS OR 3 BLOCKS OF EACH TYPE FOR ABSORPTION AND COMPRESSIVE STRENGTH TESTS.

MORTAR ITEMS: SAMPLE PER PROJECT, PER RAILROAD CAR LOAD FOR AASHTO TESTS.

CODE	ITEM DESCRIPTION	UOM
707.0900	ADJUST MANHOLE TO GRADE	EACH
707.0950	ADJUST TELEPHONE MANHOLE TO GRADE	EACH
707.0955	ADJUST ELECTRICAL MANHOLE TO GRADE	EACH
707.1000	ADJUST SANITARY MANHOLE TO GRADE	EACH
707.1100	ADJUST TELEPHONE MANHOLE TO GRADE	EACH
707.2000	ADJUST FRAME AND GRATE TO GRADE	EACH
707.9901	ADJUST DRAINAGE MANHOLE TO GRADE	EACH
713.8269	ADJUST WATER GATE BOXES TO GRADE	EACH
713.8300	ADJUST GAS GATE BOXES TO GRADE	EACH
713.9901	ADJUST UNKNOWN GATE TO GRADE	EACH
T05.1030	ADJUST HANDHOLE TO GRADE	EACH

NOTES:

1. ALL MATERIALS SAMPLING AND TESTING TO BE PERFORMED BY CITY OF PROVIDENCE OR CITY'S DESIGNATED REPRESENTATIVE.
2. TESTING FREQUENCIES ARE MINIMUMS AND SUBJECT TO MODIFICATION BY THE CITY OF PROVIDENCE WITH APPROVAL FROM RIDOT DUE TO PROJECT CONSIDERATIONS.
3. CONTRACTOR TO PROVIDE 48 HOUR ADVANCED NOTICE TO CITY OF PROVIDENCE PRIOR TO FABRICATION OF PRECAST STRUCTURES TO BE INSPECTED AT THE PLANT.
4. CONTRACTOR TO PROVIDE 48 HOUR ADVANCED NOTICE TO CITY OF PROVIDENCE PRIOR TO DELIVERY OF ANY MATERIALS TO BE TESTED UNDER THIS SCHEDULE.
5. THIS SCHEDULE WAS PREPARED IN ACCORDANCE WITH THE RIDOT MASTER SCHEDULE FOR THE PREPARATION OF A PROJECT SCHEDULE FOR SAMPLING, TESTING, AND CERTIFICATION OF MATERIALS, 1998 EDITION (MST) AND ALL UPDATES.
6. MATERIALS SAMPLE SIZE SHALL BE PER THE RIDOT MST. MST CAN BE ACCESSED AT: <http://www.dot.state.ri.us/documents/engineering/research/materials/MasterScheduleRev1998.pdf>
7. RIDOT LISTS FOR APPROVED PRODUCTS, PLANTS, CONCRETE AND BITUMINOUS MIXES CAN BE ACCESSED AT: http://www.dot.ri.gov/engineering/materials_research/Approvals/index.asp

**APPENDIX E.1:
DISTRIBUTION OF QUANTITIES
BROAD STREET IMPROVEMENTS**



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

201.0403

DSW

REMOVE AND DISPOSE SIDEWALKS

SY

Start Station	End Station	L/R	Area (SF)	Conversion (SY/SF)	Area		
16+86	17+26	L	464	/ 9	= 52	SY	
20+30	20+47	R	129	/ 9	= 15	SY	
27+18	27+35	L	155	/ 9	= 18	SY	
29+59	29+83	L	226	/ 9	= 26	SY	
31+98	32+14	R	250	/ 9	= 28	SY	
41+73	41+86	R	155	/ 9	= 18	SY	
56+95	57+97	R	1251	/ 9	= 139	SY	
67+72	67+98	L	309	/ 9	= 35	SY	
67+72	67+90	R	221	/ 9	= 25	SY	
69+54	69+76	R	278	/ 9	= 31	SY	
78+58	78+74	R	199	/ 9	= 23	SY	
85+17	85+72	R	732	/ 9	= 82	SY	
85+58	86+17	L	646	/ 9	= 72	SY	
94+04	94+30	R	410	/ 9	= 46	SY	
					Total =	610	SY



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

201.0407 DRB REMOVE AND DISPOSE PAVEMENT AND RIGID BASE SY

			Length (LF)		Width (LF)		Convert (SY/SF)		Area (SY)		
From	906.0112	<u>GCS</u>	GRANITE CURB PROVIDENCE STANDARD 7" STRAIGHT								
			685	X	1	/	9	=	77	SY	
From	906.0113	<u>GCC</u>	GRANITE CURB PROVIDENCE STANDARD 7" CIRCULAR								
			80	X	1	/	9	=	9	SY	
From	906.9902	<u>7.3.2M</u>	PROVIDENCE STANDARD GRANITE 6'-0" TRANSITION CURB, RI STANDARD 7.3.2 MODIFIED (7")								
			102	X	1	/	9	=	12	SY	
From	906.9903	<u>7.3.9M</u>	PROVIDENCE STANDARD GRANITE RAMP STONE, RI STANDARD 7.3.9 MODIFIED (7") - STRAIGHT								
			44	X	1	/	9	=	5	SY	
From	906.9904	<u>7.3.9MC</u>	PROVIDENCE STANDARD GRANITE RAMP STONE, RI STANDARD 7.3.9 MODIFIED (7") - CIRCULAR								
			24	X	1	/	9	=	3	SY	
From	906.9905	<u>7.3.1M</u>	PROVIDENCE STANDARD GRANITE 3'-0" TRANSITION CURB, RI STANDARD 7.3.1 MODIFIED (7")								
			3	X	1	/	9	=	1	SY	
									Total =	<u>107</u>	SY



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

201.0409

DFP

REMOVE AND DISPOSE FLEXIBLE PAVEMENT

SY

Start Station	End Station	L/R	Area (SF)	Area (SY)	
31+56	32+12	R	525	59	SY
41+72	42+23	R	457	51	SY
57+44	57+93	R	560	63	SY
69+14	69+68	R	578	65	SY
78+52	79+09	R	548	61	SY
85+65	86+17	L	246	28	SY

Total = 327 SY



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

201.0450

SGC

REMOVE AND STOCKPILE GRANITE CURB

LF

Start Station	End Station	L/R	Length	
17+19	17+26	L	8	LF
20+30	20+47	R	17	LF
27+18	27+35	L	17	LF
29+59	29+83	L	24	LF
31+98	32+14	R	16	LF
41+73	41+86	R	13	LF
57+26	57+56	R	30	LF
57+80	57+96	R	16	LF
67+72	67+90	L	18	LF
67+72	67+90	R	18	LF
69+54	69+76	R	22	LF
78+58	78+74	R	16	LF
85+53	85+72	R	19	LF
85+58	86+17	L	69	LF
94+04	94+30	R	30	LF
			Total =	333 LF



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

201.0610 **DS** REMOVE AND DISPOSE DIRECTIONAL, WARNING, REGULATORY,
SERVICE, AND STREET SIGNS EA

Station	L/R	Quantity	
14+64	R	1	EA
17+23	L	1	EA
17+78	R	2	EA
22+26	L	1	EA
25+58	L	1	EA
30+86	L	1	EA
31+25	R	1	EA
35+27	R	1	EA
36+85	R	1	EA
37+48	R	1	EA
39+74	R	1	EA
46+04	R	2	EA
57+74	R	1	EA
58+51	L	1	EA
59+45	L	1	EA
60+29	R	1	EA
64+24	R	1	EA
64+80	L	1	EA
70+31	R	1	EA
72+98	R	1	EA
73+54	L	1	EA
75+63	R	1	EA
83+85	R	1	EA
90+81	L	1	EA
92+52	R	1	EA
93+08	L	1	EA
94+00	R	2	EA
94+70	L	1	EA
		Total =	EA
		31	



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

201.0626 ~~SPSH~~ SPBS REMOVE AND SALVAGE TRAFFIC SIGNAL EQUIPMENT LS

Station	L/R	Type	Quantity	
56+73	R	SPBS	1	EA
56+80	L	SPBS	2	EA
56+97	R	SPBS	2	EA
57+43	L	SPBS	1	EA
67+08	R	SPBS	1	EA
67+65	R	SPBS	1	EA
67+97	L	SPBS	1	EA
68+58	R	SPBS	1	EA
68+63	L	SPBS	2	EA
84+74	R	SPBS	1	EA
84+88	L	SPBS	2	EA
85+19	R	SPBS	2	EA
85+37	L	SPSH	2	EA

Total QTY = 19 EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

201.9901 **RBH** **REMOVE, STOCKPILE, AND RESET OR RELOCATE BIKE HITCH** **EA**

From	To	Quantity	
57+49 R	57+49 R	1	EA
57+69 R	57+69 R	1	EA
69+60 R	69+29 R	1	EA
78+89 R	78+68 R	1	EA
85+30 R	85+30 R	1	EA
		<hr/>	
		Total=	5 EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

201.9902 SFG REMOVE AND SALVAGE FRAME AND GRATE OR FRAME AND COVER EA

Start Station		Quantity	
20+69	R	1	EA
32+75	R	1	EA
21+43	R	1	EA
		<hr/>	
Total =		3	EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

202.0100 **EARTH EXCAVATION** **CY**

From 905.0110 (43.1.0) PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD

Assumed depth = 8 IN

4847 SF X 8 IN / 324 CY/SF*IN = 120 CY

From 905.0115 (43.5.0) PORTLAND CEMENT CONCRETE DRIVEWAY STANDARD

Assumed depth = 8 IN

440 SF X 8 IN / 324 CY/SF*IN = 11 CY

Total = 131 CY



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

204.0100 **TRIMMING AND FINE GRADING** **SY**

From 905.0110 43.1.0 PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD

4847 SF / 9 SY/SF = 539 SY

From 905.0115 43.5.0 PORTLAND CEMENT CONCRETE DRIVEWAY STANDARD

440 SF / 9 SY/SF = 49 SY

Total = 588 SY



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

206.9901	COMPOST FILTER SOCK INLET PROTECTION	EA
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Project Wide	19	EA
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Total =	<u>19</u>	EA
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Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

209.0200 SSK SILT SACK INSERT CATCH BASIN INLET PROTECTION EA

Project Wide

Total = 3 EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

212.2000

CLEANING AND MAINTENANCE OF EROSION CONTROLS

LS

Assume 1 replacement of CFS and SSK

Total = 1 LS



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

302.0100 GRAVEL BORROW SUBBASE COURSE CY

From 905.0110 (43.1.0) PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD

Depth = 8 IN

4847 SF X 8 IN / 324 CY/SF*IN = 120 CY

From 905.0115 (43.5.0) PORTLAND CEMENT CONCRETE DRIVEWAY STANDARD

Depth = 8 IN

440 SF X 8 IN / 324 CY/SF*IN = 11 CY

Total: 131 CY



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

401.3005 CLASS 9.5 HMA FOR MISCELLANEOUS WORK TON

Component	Area (SF)	Area (SY)	Conversion (TON/SY)	Volume (CY)		
From 601.0300	938	/ 9	X	0.18678	=	19 TON
			Total	=	<u>19</u>	TON



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

403.0300 ASPHALT EMULSION TACK COAT SY

From 401.3005 CLASS 9.5 HMA FOR MISCELLANEOUS WORK

No. of HMA Layers 1

938 SF / 9 (SY/SF) X 1 Layers = 105 SY

Total = 105 SY



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

601.0300 CLASS A PORTLAND CEMENT CONCRETE CY

Assumed Width 1 LF
 Assumed Depth 9 IN 18" CURB - 6" REVEAL - 3" SURFACE = 9"

From 906.0112 GRANITE CURB PROVIDENCE STANDARD 7" STRAIGHT
Conversion
 685 LF X 1 LF X 9 IN / 324 = 20 CY

From 906.0113 GRANITE CURB PROVIDENCE STANDARD 7" CIRCULAR
Conversion
 80 LF X 1 LF X 9 IN / 324 = 3 CY

From 906.9902 PROVIDENCE STANDARD GRANITE 6'-0" TRANSITION CURB, RI STANDARD 7.3.2 MODIFIED (7")
Conversion
 102 LF X 1 LF X 9 IN / 324 = 3 CY

From 906.9903 PROVIDENCE STANDARD GRANITE RAMP STONE, RI STANDARD 7.3.9 MODIFIED (7") - STRAIGHT
Conversion
 44 LF X 1 LF X 9 IN / 324 = 2 CY

From 906.9904 PROVIDENCE STANDARD GRANITE RAMP STONE, RI STANDARD 7.3.9 MODIFIED (7") - CIRCULAR
Conversion
 24 LF X 1 LF X 9 IN / 324 = 1 CY

From 906.9905 PROVIDENCE STANDARD GRANITE 3'-0" TRANSITION CURB, RI STANDARD 7.3.1 MODIFIED (7")
Conversion
 3 LF X 1 LF X 9 IN / 324 = 1 CY

Subtotal = 938 SF

Total = 30 CY



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

702.9901 **6.3.6P** **PROVIDENCE STANDARD RECTANGULAR FRAME AND GRATE** **EA**

Station	L/R	Quantity	
20+69	R	1	EA
21+43	R	1	EA
32+75	R	1	EA
		Total =	
		3	EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

707.0900	AB	ADJUST MANHOLES TO GRADE	EA
Station	L/R	Quantity	
17+22	L	1	EA
85+20	R	1	EA
		Total =	EA
		<u>2</u>	



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

708.9041	CCB	CLEAN CATCH BASIN	EA
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Project Wide		19	EA
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Total =		<u>19</u>	EA
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Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

713.8300 **ADJUST GAS GATE BOXES TO GRADE** **EA**

Station	L/R	Quantity	
85+72	L	1	EA
		Total =	
		1	EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

905.0110 **43.1.0** PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD CY

Start Station	End Station	L/R	Area (SF)	Depth (IN)	Conversion (CY/SF*IN)	Volume (CY)
FROM R&D CONC						
16+86	17+26	L	464 X	4	/ 324	= 6 CY
20+30	20+47	R	129 X	4	/ 324	= 2 CY
27+18	27+35	L	155 X	4	/ 324	= 2 CY
29+59	29+83	L	226 X	4	/ 324	= 3 CY
56+95	57+97	R	1245 X	4	/ 324	= 16 CY
67+72	67+98	L	310 X	4	/ 324	= 4 CY
67+72	67+90	R	221 X	4	/ 324	= 3 CY
69+54	69+76	R	239 X	4	/ 324	= 3 CY
85+17	85+78	R	732 X	4	/ 324	= 10 CY
85+58	86+17	L	646 X	4	/ 324	= 8 CY
94+04	94+30	R	480 X	4	/ 324	= 6 CY
From Floating Bus Islands			4860			60 CY
Subtotal =			9707 SF			Total = 123 CY



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

905.0115 43.5.0 PORTLAND CEMENT CONCRETE DRIVEWAY STANDARD CY

Start Station	End Station	L/R	Area (SF)	Depth (IN)	Conversion (CY/SF*IN)	Volume (CY)
16+86	17+10	L	301 X	8 /	324 =	8 CY
85+62	85+75	L	139 X	8 /	324 =	4 CY

Subtotal = 440 SF

Total = 12 CY



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

906.0112 GCS GRANITE CURB PROVIDENCE STANDARD 7" STRAIGHT LF

Station Range	L/R	Length	
17+09	17+16	L	7 LF
20+30	20+37	R	7 LF
27+18	27+35	L	17 LF
29+59	29+83	L	24 LF
31+58	31+58	R	7 LF
31+59	32+10	R	51 LF
31+59	32+10	R	51 LF
32+12	32+12	R	7 LF
41+73	41+73	R	7 LF
41+75	42+20	R	44 LF
41+75	42+20	R	44 LF
42+22	42+22	R	7 LF
57+43	57+56	R	13 LF
57+45	57+45	R	9 LF
57+47	57+90	R	43 LF
57+47	57+90	R	43 LF
57+88	57+88	R	8 LF
57+92	57+92	R	9 LF
67+72	67+79	L	7 LF
67+72	67+80	R	8 LF
69+15	69+15	R	9 LF
69+17	69+65	R	48 LF
69+17	69+65	R	48 LF
69+67	69+67	R	9 LF
78+53	78+53	R	8 LF
78+55	79+06	R	51 LF
78+55	79+06	R	51 LF
79+08	79+08	R	8 LF
85+54	85+59	R	5 LF
85+57	85+62	L	5 LF
85+71	85+71	R	6 LF
85+92	86+17	L	24 LF

Total = 685 LF



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

906.0113 GCC GRANITE CURB PROVIDENCE STANDARD 7" CIRCULAR LF

Station Range	L/R	Length	
31+57	31+59	R	3 LF
31+57	31+59	R	3 LF
32+10	31+12	R	3 LF
32+10	31+12	R	3 LF
41+73	41+75	R	3 LF
41+73	41+75	R	3 LF
42+20	42+22	R	3 LF
42+20	42+22	R	3 LF
57+45	57+47	R	3 LF
57+45	57+47	R	3 LF
57+90	57+92	R	3 LF
57+90	57+92	R	3 LF
69+15	69+17	R	3 LF
69+15	69+17	R	3 LF
69+65	69+67	R	3 LF
69+65	69+67	R	3 LF
78+53	78+55	R	3 LF
78+53	78+55	R	3 LF
79+06	79+08	R	3 LF
79+06	79+08	R	3 LF
85+82	85+88	L	7 LF
85+88	85+93	L	4 LF
94+04	94+13	R	9 LF

Total = 80 LF



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

906.0700 **RHH** REMOVE, HANDLE, HAUL TRIM RESET CURB EDGING, STRAIGHT, LF
CIRCULAR ALL TYPES

Station Range		L/R	Length	
57+89	57+97	R	8	LF
			Total =	
			<u>8</u>	LF



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

906.9901	TSC	TRAFFIC SEPARATOR CURB		EA
Station Range	L/R		Quantity	
31+12	31+24	R	2	EA
32+15	32+75	R	9	EA
33+38	34+22	R	12	EA
34+57	35+39	R	5	EA
35+76	36+06	R	5	EA
36+91	36+97	R	4	EA
37+69	39+25	R	20	EA
39+91	40+93	R	15	EA
42+26	42+38	R	3	EA
42+95	43+85	R	13	EA
44+90	46+22	R	19	EA
47+94	48+95	R	7	EA
49+64	51+36	R	24	EA
52+10	52+40	R	6	EA
52+87	53+64	R	12	EA
55+99	56+29	R	8	EA
58+34	58+99	R	6	EA
59+75	61+64	R	18	EA
62+74	64+32	R	18	EA
65+27	67+01	R	22	EA
68+05	68+35	R	6	EA
70+58	71+06	R	10	EA
71+93	72+41	R	8	EA
73+20	74+94	R	24	EA
75+85	75+97	R	4	EA
76+52	76+88	R	5	EA
77+10	77+70	R	9	EA
78+45	79+17	R	2	EA
79+36	79+90	R	8	EA
80+13	80+43	R	5	EA
80+65	81+13	R	8	EA
81+98	82+46	R	7	EA
82+72	83+32	R	9	EA
83+92	84+64	R	4	EA
85+30	85+47	R	5	EA
86+41	86+71	R	8	EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

906.9901

TSC

TRAFFIC SEPARATOR CURB

EA

Station Range		L/R	Quantity	
90+07	90+55	R	9	EA
91+27	93+89	R	35	EA
			Total =	
			394	EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

906.9902

7.3.2M

PROVIDENCE STANDARD GRANITE 6'-0" TRANSITION CURB, RI
STANDARD 7.3.2 MODIFIED (7")

EA

Station Range		L/R	Quantity	
17+20	17+26	L	1	EA
20+41	20+47	R	1	EA
31+98	32+04	R	1	EA
32+08	32+14	R	1	EA
41+80	41+86	R	1	EA
57+26	57+32	R	1	EA
57+37	57+43	R	1	EA
57+80	57+86	R	1	EA
67+84	67+90	L	1	EA
67+84	67+90	R	1	EA
69+54	69+60	R	1	EA
69+64	69+70	R	1	EA
78+58	78+64	R	1	EA
78+68	78+74	R	1	EA
85+59	85+65	R	1	EA
85+75	85+79	L	1	EA
94+12	94+18	R	1	EA

Total = 17 EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

906.9903		7.3.9M		PROVIDENCE STANDARD GRANITE RAMP STONE, RI STANDARD		7.3.9 MODIFIED (7") - STRAIGHT		EA	
Station Range		L/R		Quantity					
17+16	17+20	L		1				EA	
20+37	20+41	R		1				EA	
32+04	32+08	R		1				EA	
41+76	41+80	R		1				EA	
57+32	57+36	R		1				EA	
57+86	57+90	R		1				EA	
67+80	67+84	L		1				EA	
67+80	67+84	R		1				EA	
69+60	69+64	R		1				EA	
78+64	78+68	R		1				EA	
85+65	85+69	R		1				EA	
				Total =	<u>11</u>			EA	



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

906.9904 **7.3.9MC** **PROVIDENCE STANDARD GRANITE RAMP STONE, RI STANDARD**
7.3.9 MODIFIED (7") - CIRCULAR **EA**

Station Range		L/R	Quantity	
85+78	85+82	L	1	EA
94+18	94+25	R	2	EA
			Total =	EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

906.9905 7.3.1M PROVIDENCE STANDARD GRANITE 3'-0" TRANSITION CURB, RI
STANDARD 7.3.1 MODIFIED (7") EA

Station Range	L/R	Quantity	
41+73 41+76	R	1	EA
		<u>1</u>	EA
		Total =	



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

906.9906	RRCR	REMOVE AND RELOCATE CURB RETURN	EA	
From	To	L/R	Quantity	
16+87	16+87	L	1	EA
17+17	17+07	L	1	EA
85+64	85+62	L	1	EA
			Total =	3 EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

906.9907 7.3.4P PROVIDENCE STANDARD GRANITE 2'-0" RADIUS CURB RETURN EA

Station	L/R	Quantity	
85+75	L	1	EA
		Total =	
		1	EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

907.0200 **CALCIUM CHLORIDE FOR DUST CONTROL** **TON**

From 905.0110 43.1.0 PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD

$$\begin{array}{rcccccccc} 9707 & \text{SF} & / & 9 & (\text{SY/SF}) & \times & 1.5 & (\text{LBS/SY}) \\ & = & 1618 & \text{LBS} & = & 0.81 & \text{TON} \end{array}$$

From 905.0115 43.5.0 PORTLAND CEMENT CONCRETE DRIVEWAY STANDARD

$$\begin{array}{rcccccccc} 440 & \text{SF} & / & 9 & (\text{SY/SF}) & \times & 1.5 & (\text{LBS/SY}) \\ & = & 74 & \text{LBS} & = & 0.04 & \text{TON} \end{array}$$

$$\text{Total} = \underline{\quad 1.00 \quad} \text{TON}$$



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

914.5010

FLAGPERSONS

MHRS

Flagpersons	Hours/Day		Days/Week		Week/Const Season		Quantity		
2	X	8	X	5	X	12	=	<u>960</u>	MHRS
							Total =	960	MHRS



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

914.5020

FLAGPERSONS - OVERTIME

MHRS

**Flagpersons
Man Hours**

960

X

Flagpersons

0.2

Quantity

=

192

MHRS

Total =

192

MHRS



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

919.0101

TEST PITS

EA

Project Wide

	Quantity	
	2	EA
Total =	<u>2</u>	EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

922.0100 **TEMPORARY CONSTRUCTION SIGNS STANDARD 29.1.0 AND 27.1.1** **SF**

Sign	Quantity	Dimensions		Conversion		Area (SF)			
		IN.		IN.	(IN ² /FT ²)				
G20-2a	4	48	X	24	/	144	=	32.00	SF
W20-1	4	36	X	36	/	144	=	36.00	SF
W20-4	2	36	X	36	/	144	=	18.00	SF
W20-7a	2	36	X	36	/	144	=	18.00	SF
W20-7b	2	36	X	36	/	144	=	18.00	SF
W24-1L	2	36	X	36	/	144	=	18.00	SF
RI-27.1.1	4	24	X	36	/	144	=	24.00	SF
Total =								164	SF



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

923.0105

DRUM BARRICADE STANDARD 26.2.0

BDAY

Barrels and cones are interchangeable.

From 923.0200 FLUORESCENT TRAFFIC CONES STANDARD 26.1.0

Quantity = 32 EA

Assume barrels will be needed for 45 days

Barrels **Days**
32 X 45 = 1440 BDAY

Total = 1440 BDAY



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

923.0125	PLASTIC PIPE TYPE III BARRICADE STANDARD 26.3.1	EA
Assume 100' outer barricade around work zone	20	EA
	Total =	EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

923.0200 FLUORESCENT TRAFFIC CONES STANDARD 26.1.0 EA

Per MUTCD, cone spacing is equal to half of the roadway speed

From TYPICAL LANE SHIFT ON TWO-LANE ROADWAY 25 mph
 Spacing: 12 ft

Assume 1 taper of 125', 1 buffer space of 55', and 1 taper of 125' at far side of work zone

	Spacing	Length	Quantity	
Taper	12	125	11	EA
Work Zone	12	60	5	EA
Buffer	12	55	5	EA
Taper	12	125	11	EA
Setups required	1			
		Subtotal	32	EA

From TYPICAL LANE CLOSURE ON TWO-LANE ROADWAY

Assume 1 taper of 125', 1 buffer space of 55', and 1 taper of 125' at far side of work zone

	Spacing	Length	Quantity	
Taper	12	125	11	EA
Work Zone	12	60	5	EA
Buffer	12	55	5	EA
Taper	12	125	11	EA
Setups required	1			
		Subtotal	32	EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

923.0200

FLUORESCENT TRAFFIC CONES STANDARD 26.1.0

EA

From TYPICAL SIDEWALK DIVERSION

Assume 1 taper of 50' at near side of work zone and 1 taper of 50' at far side of work zone

	Spacing	Length	<u>Quantity</u>	
	12	50	5	EA
	12	50	5	EA
Setups required	1			
		Subtotal	10	EA
		TOTAL	32	

Include cones for delineation of parking/travel lane and bike facility. To be used after the striping is installed but before the rubber car stops are installed. 150 EA

TOTAL 182



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

931.0110 **CLEANING AND SWEEPING PAVEMENT** **HSY**

Start Station	End Station	L/R	Width (FT)	Length (FT)	Area (SF)	SY/100	Area		
10+50	95+50	M	55	X 8500	= 467500	/ 900	= 520	HSY	
							SAY	<u>520</u>	HSY



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

932.0210 FULL DEPTH SAWCUT OF BITUMINOUS PAVEMENT AND RIGID BASE LF

Start Station	End Station	L/R	Length	
16+86	17+27	L	23	LF
20+30	20+47	R	20	LF
27+18	27+35	L	19	LF
29+59	29+83	L	26	LF
31+56	32+13	R	259	LF
41+72	42+23	R	233	LF
57+26	57+89	R	65	LF
57+44	57+93	R	238	LF
67+72	67+90	L	20	LF
67+72	67+90	R	20	LF
69+14	69+68	R	255	LF
78+52	79+09	R	263	LF
85+56	86+17	L	75	LF
85+54	85+72	R	21	LF
94+13	94+30	R	21	LF
			Total =	1557 LF



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

932.0230 FULL DEPTH SAWCUT OF PORTLAND CEMENT CONCRETE SIDEWALK/DRIVEWAY LF

Start Station	End Station	L/R	Length	
16+86	16+86	L	14	LF
17+20	17+27	L	14	LF
20+30	20+30	R	8	LF
20+47	20+47	R	8	LF
27+18	27+18	L	11	LF
27+35	27+35	L	11	LF
29+59	29+59	L	11	LF
29+83	29+83	L	11	LF
31+98	31+98	R	16	LF
31+98	32+14	R	16	LF
32+14	32+14	R	16	LF
41+73	41+73	R	12	LF
41+73	41+86	R	13	LF
41+86	41+86	R	12	LF
57+19	57+19	R	8	LF
57+97	57+97	R	9	LF
67+72	67+72	L	13	LF
67+72	67+72	R	13	LF
67+90	67+90	L	13	LF
67+90	67+90	R	13	LF
69+54	69+54	R	13	LF
69+54	69+71	R	18	LF
69+76	69+76	R	9	LF
78+58	78+58	R	13	LF
78+58	78+74	R	18	LF
78+74	78+74	R	13	LF
85+54	85+54	R	13	LF
85+57	85+61	L	8	LF
85+78	85+78	R	10	LF
85+70	85+81	L	13	LF
86+17	86+18	L	16	LF
94+07	94+13	R	28	LF

Total = 414 LF



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

936.0100

MOBILIZATION AND DEMOBILIZATION

LS

Quantity

1 LS

Total = 1 LS

Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

937.0200 MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION LS

Quantity

1 LS

Total = 1 LS



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

942.0200	48.1.0	DETECTABLE WARNING PANEL STANDARD					SF
Station	L/R	Panel Length (FT)		Ramp Width (FT)	=	Area (SF)	
17+16	L	2	X	4	=	8	SF
20+37	R	2	X	4	=	8	SF
31+58	R	2	X	39	=	78	SF
32+03	R	2	X	6	=	12	SF
32+04	R	2	X	4	=	8	SF
41+76	R	2	X	4	=	8	SF
41+76	R	2	X	4	=	8	SF
41+86	R	2	X	35	=	70	SF
57+32	R	2	X	4	=	8	SF
57+46	R	2	X	46	=	92	SF
57+86	R	2	X	4	=	8	SF
57+86	R	2	X	4	=	8	SF
67+80	L	2	X	4	=	8	SF
67+80	R	2	X	4	=	8	SF
69+15	R	2	X	38	=	76	SF
69+61	R	2	X	4	=	8	SF
69+61	R	2	X	4	=	8	SF
78+64	R	2	X	4	=	8	SF
78+64	R	2	X	4	=	8	SF
78+75	R	2	X	33	=	66	SF
85+65	R	2	X	4	=	8	SF
85+80	L	2	X	5	=	10	SF
94+17	R	2	X	8	=	16	SF
					Total =	540	SF



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

L01.0102 **LOAM BORROW 4 INCHES DEEP** **SY**

Begin Station	End Station	L/R	SF	Quantity	
94+11	94+33	R	52	6	SY
				Total =	6 SY



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

L02.0102	RESIDENTIAL SEEDING (TYPE 2)	SY
From Loam Borrow	Quantity 6	SY
	Total = <u>6</u>	SY



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

L11.0102	51.1.0	TREE PLANT PROTECTION DEVICE	EA
	Station	Quantity	
	29+57 L	1	EA
	57+21 R	1	EA
	57+ 94 R	1	EA
	67+68 L	1	EA
	68+00 R	1	EA
	69+18 R	1	EA
	69+45 R	1	EA
	69+76 R	1	EA
	78+50 R	1	EA
	78+82 R	1	EA
	85+76 R	1	EA
		Total =	
		<u>11</u>	EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

L15.9901		PINE BARK MULCH FOR TREE PIT (3" DEPTH)			SY
	Quantity	Area	Total		
General Plan No. 15	2	64	15	SY	
General Plan No. 17	1	36	4	SY	
General Plan No. 20	1	36	4	SY	
			Total =		
			23	SY	



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T04.5303

3a

14 AWG 3 CONDUCTOR CABLE

LF

Traffic Signal Plan No. 6	450	LF
Traffic Signal Plan No. 8	460	LF
Traffic Signal Plan No. 10	665	LF
	Total =	
	<u>1575</u>	LF



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T04.5305

3b

14 AWG 5 CONDUCTOR CABLE

LF

Traffic Signal Plan No. 3	315	LF
Traffic Signal Plan No. 6	470	LF
Traffic Signal Plan No. 8	480	LF
Traffic Signal Plan No. 10	265	LF
	Total =	
	<u>1530</u>	LF



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T04.5307

3c

14 AWG 7 CONDUCTOR CABLE

LF

Traffic Signal Plan No. 10

220

LF

Total = 220

LF



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T05.0400

1a

BREAK INTO EXISTING HANDHOLE

EA

Traffic Signal Plan No. 3	3	EA
Traffic Signal Plan No. 4	2	EA
Traffic Signal Plan No. 6	5	EA
Traffic Signal Plan No. 8	5	EA
Traffic Signal Plan No. 10	5	EA
	Total =	
	<u>20</u>	EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T05.1030 **ADJUST HANDHOLE TO GRADE** **EA**

Station	L/R	Quantity	
56+97	R	1	EA
85+20	R	2	EA
		Total =	
		<u>3</u>	EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

3 INCH SCHEDULE 40 POLYVINYL CHLORIDE PLASTIC CONDUIT -

T06.5130

4c

UNDERGROUND

LF

Traffic Signal Plan No. 6	40	LF
Traffic Signal Plan No. 8	35	LF
Traffic Signal Plan No. 10	50	LF
	Total =	
	<u>125</u>	LF



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

TRAFFIC SIGNAL STANDARD, 8 FOOT, STD 19.4.0 ALUMINUM

T11.2008

5d

PEDESTAL POLE AND FOUNDATION

EA

Traffic Signal Plan No. 6	1	EA
Traffic Signal Plan No. 8	2	EA
Traffic Signal Plan No. 10	2	EA
	Total =	
	<u>5</u>	EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T12.9901

1

TRAFFIC SIGNAL CONTROLLER MODIFICATIONS

LS

Project Wide

Total = 1 LS



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T13.1000 **3** **TRAFFIC DETECTORS-LOOP, STANDARD 19.6.0** **LF**

Traffic Signal Plan No. 4	250	LF
Contingency	400	LF
	<hr/>	
	Total = 650	LF



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T13.8210 **7c** **ACCESSIBLE PEDESTRIAN DETECTOR - PUSHBUTTON WITH SIGN** **EA**

Traffic Signal Plan No. 6	8	EA
Traffic Signal Plan No. 8	8	EA
Traffic Signal Plan No. 10	10	EA
	Total =	
	<u>26</u>	EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T13.9903		(7d)	EXTENSION BRACKET FOR PEDESTRIAN PUSHBUTTON		EA
Station	L/R		Quantity		
57+40	L		2	EA	
68+60	L		2	EA	
84+90	L		2	EA	
85+20	R		2	EA	
85+40	L		2	EA	
85+80	L		2	EA	
			Total =	12 EA	

T14.3613	6a	1 WAY 3 SECTION BRACKET MOUNTED SIGNAL HEAD 12 INCH	EA
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Traffic Signal Plan No. 3	2	EA
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Total =	2	EA
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Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

1 WAY PEDESTAL MOUNTED L.E.D. PEDESTRIAN SIGNAL HEAD 12

T14.3911

9a

INCH

EA

Traffic Signal Plan No. 6	2	EA
Traffic Signal Plan No. 8	2	EA
Traffic Signal Plan No. 10	1	EA

Total = 5 EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

2 WAY PEDESTAL MOUNTED L.E.D. PEDESTRIAN SIGNAL HEAD 12

T14.3912

9b

INCH

EA

Traffic Signal Plan No. 10

1

EA

Total =

1

EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T15.0100		(X-X)	DIRECTIONAL REGULATORY AND WARNING SIGNS					SF
MUTCD ID.	Quantity		Dimensions			Conversion	Area	
			IN.	IN.		(IN ² /FT ²)		
D9-2	3	X	24	24	/	144	12.00	SF
M6-1L	2	X	21	15	/	144	4.38	SF
M6-1R	1	X	21	15	/	144	2.19	SF
R1-1	9	X	30	30	/	144	56.25	SF
R2-1	7	X	24	30	/	144	35.00	SF
R3-8h	3	X	30	30	/	144	18.75	SF
R3-17	4	X	24	18	/	144	12.00	SF



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T15.0100		X-X		DIRECTIONAL REGULATORY AND WARNING SIGNS					SF
MUTCD ID.		Quantity		Dimensions			Conversion	Area	
				IN.	IN.		(IN ² /FT ²)		
R3-17aP	95+12 R	2	X	24	8	/	144	2.67	SF
	11+18 R								
	94+05 R								
R3-17bP		2	X	24	8	/	144	2.67	SF
	12+09 L								
	95+12 R								
R4-8		5	X	24	30	/	144	25.00	SF
	31+59 R								
	41+75 R								
	57+47 R								
	69+17 R								
	78+55 R								
R6-1L		5	X	36	12	/	144	15.00	SF
	17+25 L								
	17+73 L								
	20+93 R								
	32+75 R								
	59+08 R								
R6-1R		5	X	36	12	/	144	15.00	SF
	17+25 L								
	20+93 R								
	21+27 R								
	32+75 R								
	59+08 R								
R9-5		23	X	12	18	/	144	34.50	SF
	30+46 R								
	30+89 R								
	31+52 L								
	41+11 R								
	41+65 R								
	46+47 R								
	46+91 R								
	56+44 R								
	56+99 R								



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T15.0100 **X-X** **DIRECTIONAL REGULATORY AND WARNING SIGNS** **SF**

MUTCD ID.	Quantity	Dimensions		Conversion (IN^2/FT^2)	Area	SF	
		IN.	IN.				
57+43 L							
64+48 R							
65+15 R							
65+22 R							
67+19 R							
67+64 R							
68+64 L							
77+87 R							
78+42 R							
84+75 R							
85+19 R							
94+29 R							
94+37 L							
94+96 R							
R10-11b	34	X	36	36 /	144	306.00	SF
21+38 L							
23+21 R							
30+43 R							
30+82 R							
31+03 L							
31+15 L							
40+80 L							
40+81 L							
41+11 R							
41+66 R							
46+43 R							
46+56 L							
46+92 R							
47+01 L							
56+36 R							
56+86 R							
57+01 L							
57+44 L							
64+43 R							
64+81 L							



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T15.0100 **X-X** **DIRECTIONAL REGULATORY AND WARNING SIGNS** **SF**

MUTCD ID.	Quantity	Dimensions			Conversion (IN ² /FT ²)	Area	SF	
		IN.	IN.					
64+92 R								
65+24 L								
67+61 R								
67+74 R								
68+09 L								
68+71 L								
77+83 R								
78+27 R								
84+66 R								
85+00 L								
85+05 R								
86+24 L								
94+05 R								
94+94 R								
R10-14	2	X	36	42	/	144	21.00	SF
53+91 R								
54+99 L								
R10-15alt	18	X	30	30	/	144	112.50	SF
20+23 R								
21+38 L								
30+43 R								
41+11 R								
41+66 R								
46+43 R								
46+92 R								
56+36 R								
56+86 R								
64+43 R								
64+92 R								
67+61 R								
67+74 R								
77+83 R								
85+05 R								
94+05 R								
94+94 R								



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T15.0100 **X-X** **DIRECTIONAL REGULATORY AND WARNING SIGNS** **SF**

MUTCD ID.	Quantity		Dimensions			Conversion	Area	
			IN.	IN.		(IN ² /FT ²)		
R10-15altL	1	X	30	30	/	144	6.25	SF
78+27 R								
W11-2M	26	X	30	30	/	144	162.50	SF
W16-7pM	26	X	24	12	/	144	52.00	SF
11+46 R								
11+97 L								
16+95 R								
18+26 L								
28+08 R								
28+92 L								
32+65 R								
33+92 L								
35+99 R								
36+95 L								
38+50 R								
39+21 L								
42+28 R								
42+89 L								
47+89 R								
48+43 L								
51+24 R								
52+49 L								
71+42 R								
72+36 R								
72+43 L								
73+30 L								
81+04 R								
82+23 L								
90+52 R								
91+33 L								

Total = 896 SF



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T15.0200 **RRS** REMOVE AND RELOCATE DIRECTIONAL REGULATORY AND
WARNING SIGN EA

From	To	MUTCD ID.		
67+83 L	67+62 L	R7-1	1	EA

Total= 1



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T15.2000 **PARKING SIGNS** **SF**

MUTCD ID.	Quantity		Dimensions			Conversion	Area	SF
			IN.	IN.		(IN^2/FT^2)		
R7-1	6	X	12	18	/	144	9.00	SF
R7-1L	21	X	12	18	/	144	31.50	SF
R7-1R	19	X	12	18	/	144	28.50	SF

Broad Street Improvements - Advertising

T15.2000 **PARKING SIGNS** **SF**

MUTCD ID.	Quantity	Dimensions		Conversion (IN^2/FT^2)	Area		
		IN.	IN.				
39+21 L							
42+86 R							
48+42 R							
55+77 R							
57+50 L							
59+86 R							
63+29 R							
66+09 L							
72+03 R							
72+79 L							
80+31 L							
82+09 R							
84+67 R							
90+04 R							
R7-1aL	15	X	12	18 /	144	22.50	SF
38+70 R							
42+89 L							
43+73 R							
45+82 R							
51+24 R							
56+19 R							
74+92 R							
75+15 L							
77+58 R							
81+04 R							
83+24 R							
86+19 L							
86+63 R							
93+82 R							
94+21 L							
R7-1aR	9	X	12	18 /	144	13.50	SF
44+13 L							
44+85 R							
49+70 R							
76+54 R							



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T15.2000		PARKING SIGNS						SF
MUTCD ID.	Quantity	Dimensions			Conversion	Area		
		IN.	IN.		(IN ² /FT ²)			
	79+36 R							
	84+79 L							
	85+99 R							
	90+44 L							
	92+80 L							
R-LINE	1	X	12	18 /	144	1.50	SF	
	30+60 L							
RIPTA	1	X	12	18 /	144	1.50	SF	
	30+60 L							
					Total =	108.00	SF	



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T18.9901

FDP

FLEXIBLE DELINEATOR POST

EA

	Quantity		
S&S Plan No. 4	9	79	EA
S&S Plan No. 5	9		
S&S Plan No. 6	8		
S&S Plan No. 7	7		
S&S Plan No. 8	9		
S&S Plan No. 9	5		
S&S Plan No. 10	9		
S&S Plan No. 11	5		
S&S Plan No. 12	8		
S&S Plan No. 13	7		
S&S Plan No. 14	3		

Total= 79 **EA**



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T20.1000		RPM		REMOVE EXISTING PAVEMENT MARKINGS		LF
Start Station	End Station	L/R		Length		
10+21	10+32	R		25		LF
				Total =	25	LF

Assume:

2600 LF Removed per sheet (P lanes & TWLTL)

500 LF Removed per intersection (CW & SL)

Sheets		LF		
14	X	2600	=	36400
Intersections		LF		
28	X	500	=	14000
		Subtotal		50400
		Contingency		7560
		Total		57960
				31354



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T20.1010 RPM		REMOVE EXISTING PAVEMENT MARKINGS	EA
Station	L/R	Quantity	
S&S Plan No. 1		4	EA
S&S Plan No. 3		2	EA
S&S Plan No. 5		2	EA
S&S Plan No. 6		8	EA
S&S Plan No. 7		10	EA
S&S Plan No. 8		8	EA
S&S Plan No. 9		6	EA
S&S Plan No. 10		6	EA
S&S Plan No. 11		4	EA
S&S Plan No. 12		6	EA
S&S Plan No. 13		6	EA
S&S Plan No. 14		8	EA
		Total =	
		<u>70</u>	EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T20.2406 **6W** **6 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS** **LF**

	Length (LF)		Line/Gap Ratio			
2B 2' Buffer					2,388	LF
S&S Plan No. 1	1199					
S&S Plan No. 2	1189					
6W Lane Lines					22,060	LF
S&S Plan No. 1	614					
S&S Plan No. 2	1006					
S&S Plan No. 3	1896					
S&S Plan No. 4	1383					
S&S Plan No. 5	1806					
S&S Plan No. 6	1553					
S&S Plan No. 7	1676					
S&S Plan No. 8	1605					
S&S Plan No. 9	2000					
S&S Plan No. 10	1462					
S&S Plan No. 11	2100					
S&S Plan No. 12	1685					
S&S Plan No. 13	2030					
S&S Plan No. 14	1244					
One-Way Urban Trail Striping Through Intersection (2' Line, 2' Gap)	1343	/	2	=	672	LF
S&S Plan No. 1	152					
S&S Plan No. 2	457					
S&S Plan No. 3	570					
S&S Plan No. 14	164					
6BW Broken Line (2' Line, 4' Gap)	693	/	3	=	231	LF
S&S Plan No. 1	76					
S&S Plan No. 3	86					
S&S Plan No. 4	139					
S&S Plan No. 5	65					
S&S Plan No. 7	85					
S&S Plan No. 8	19					
S&S Plan No. 9	46					
S&S Plan No. 10	37					
S&S Plan No. 11	93					
S&S Plan No. 12	47					
6DIW Diagonal Lines					3,061	LF
S&S Plan No. 1	74					



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T20.2406

6W

6 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS

LF

	Length (LF)	Line/Gap Ratio
—	S&S Plan No. 2	146
	S&S Plan No. 3	136
	S&S Plan No. 4	140
	S&S Plan No. 5	334
	S&S Plan No. 6	189
	S&S Plan No. 7	185
	S&S Plan No. 8	197
	S&S Plan No. 9	220
	S&S Plan No. 10	198
	S&S Plan No. 11	246
	S&S Plan No. 12	172
	S&S Plan No. 13	655
	S&S Plan No. 14	169

Total= 28412 LF

Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

(CW)	(12W)	12 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS	LF
------	-------	--	-----------

(12W)	Length (LF)	Line/Gap Ratio	2403	LF
S&S Plan No. 1	19			
S&S Plan No. 2	136			
S&S Plan No. 3	236			
S&S Plan No. 4	232			
S&S Plan No. 5	235			
S&S Plan No. 6	134			
S&S Plan No. 7	71			
S&S Plan No. 8	341			
S&S Plan No. 9	138			
S&S Plan No. 10	299			
S&S Plan No. 11	60			
S&S Plan No. 12	276			
S&S Plan No. 13	150			
S&S Plan No. 14	76			
Total=			<u>2403</u>	LF

Broad Street Improvements - Advertising

T20.2424 **CW** **24 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS** **LF**

	Length (LF)	Line/Gap Ratio	=		
24BW	2414	/	3	=	805 LF
S&S Plan No. 4	189				
S&S Plan No. 5	226				
S&S Plan No. 6	357				
S&S Plan No. 7	169				
S&S Plan No. 8	503				
S&S Plan No. 9	175				
S&S Plan No. 10	221				
S&S Plan No. 11	176				
S&S Plan No. 12	257				
S&S Plan No. 13	141				
CW					9515 LF
S&S Plan No. 1	264				
S&S Plan No. 2	754				
S&S Plan No. 3	660				
S&S Plan No. 4	684				
S&S Plan No. 5	1141				
S&S Plan No. 6	778				
S&S Plan No. 7	640				
S&S Plan No. 8	830				
S&S Plan No. 9	735				
S&S Plan No. 10	555				
S&S Plan No. 11	617				
S&S Plan No. 12	601				
S&S Plan No. 13	513				
S&S Plan No. 14	743				
				Total=	<u>10320</u> LF



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

(4DY)
T20.2804 (4BDY) 4 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS LF

		Length (LF)			Line/Gap Ratio			
4BY	Broken Yellow	4422	LF	X	0.25	=	1106	LF
	S&S Plan No. 4	366						
	S&S Plan No. 5	508						
	S&S Plan No. 6	432						
	S&S Plan No. 7	410						
	S&S Plan No. 8	254						
	S&S Plan No. 9	424						
	S&S Plan No. 10	305						
	S&S Plan No. 11	546						
	S&S Plan No. 12	446						
	S&S Plan No. 13	394						
	S&S Plan No. 14	337						
4BDY	Broken Double Yellow	148	LF	X	0.25	=	37	LF
	S&S Plan No. 4	148						
4DY	Double Yellow	8366	LF				8366	LF
	S&S Plan No. 1	1443						
	S&S Plan No. 2	942						
	S&S Plan No. 3	1304						
	S&S Plan No. 4	1052						
	S&S Plan No. 5	1371						
	S&S Plan No. 6	400						
	S&S Plan No. 7	240						
	S&S Plan No. 8	415						
	S&S Plan No. 9	401						
	S&S Plan No. 10	237						
	S&S Plan No. 11	160						
	S&S Plan No. 12	241						
	S&S Plan No. 13	80						
	S&S Plan No. 14	80						
Total=							9509	LF



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T20.2806 **6DIY** **6 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS** **LF**

		regen		Line/Gap Ratio			
6DIY	Diagonal Lines	10	LF		=	10	LF
	S&S Plan No. 6	10					
					Total=	<u>10</u>	LF

Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

RA

T20.3401

LA

FINAL EPOXY RESIN PAVEMENT ARROW - STRAIGHT, LEFT, RIGHT,
OR COMBINED STANDARD 20.1.0

EA

Station	L/R	Quantity	
47+12	L	1	EA
47+54	L	1	EA
66+89	L	1	EA
84+75	L	1	EA
84+93	R	1	EA
		Total = 5	EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T20.3410 **ONLY** FINAL EPOXY RESIN PAVEMENT MARKING WORD "ONLY"
STANDARD 20.1.0 EA

Station	L/R	Quantity	
11+79	L	1	EA
66+47	L	1	EA
84+78	R	1	EA
84+89	R	1	EA
		Total =	
		<u>4</u>	EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

EPOXY RESIN PAVEMENT MARKING - HELMETED BICYCLIST

T20.3416		SYMBOL WITH ARROW		EA	
Station	L/R		Quantity		
11+89	R		1		EA
12+26	L		1		EA
14+01	L		1		EA
14+30	R		1		EA
15+04	L		1		EA
16+58	L		1		EA
17+61	L		1		EA
18+15	R		1		EA
20+02	L		1		EA
20+81	R		1		EA
20+90	L		1		EA
21+46	R		1		EA
25+11	R		1		EA
25+13	L		1		EA
26+95	R		1		EA
27+04	L		1		EA
28+33	R		1		EA
28+36	L		1		EA
30+02	L		1		EA
32+77	R		1		EA
34+15	R		1		EA
34+72	R		1		EA
36+10	R		1		EA
37+75	R		1		EA
38+63	R		1		EA
39+91	R		1		EA
40+99	R		1		EA
42+96	R		1		EA
43+69	R		1		EA
44+90	R		1		EA
46+27	R		1		EA
47+67	R		1		EA
48+99	R		1		EA
49+81	R		1		EA
51+42	R		1		EA
52+27	R		1		EA
53+84	R		1		EA
55+89	R		1		EA
56+33	R		1		EA
59+92	R		1		EA
61+53	R		1		EA
63+28	R		1		EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

EPOXY RESIN PAVEMENT MARKING - HELMETED BICYCLIST

T20.3416

SYMBOL WITH ARROW

EA

Station	L/R	Quantity	
64+33	R	1	EA
65+20	R	1	EA
67+04	R	1	EA
67+98	R	1	EA
68+33	R	1	EA
68+70	R	1	EA
70+49	R	1	EA
71+03	R	1	EA
71+92	R	1	EA
72+42	R	1	EA
73+14	R	1	EA
75+03	R	1	EA
75+80	R	1	EA
77+69	R	1	EA
79+47	R	1	EA
81+14	R	1	EA
81+96	R	1	EA
83+21	R	1	EA
83+94	R	1	EA
84+63	R	1	EA
85+89	R	1	EA
86+66	R	1	EA
87+44	R	2	EA
88+35	R	2	EA
89+17	R	2	EA
90+03	R	1	EA
90+57	R	1	EA
91+27	R	1	EA
91+29	R	1	EA
91+91	R	1	EA
94+02	R	1	EA

Total = 76 EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T20.0904 4 INCH YELLOW WATERBORNE PAINT PAVEMENT MARKINGS LF

4BDYT

4DYT

	Length (LF)	Line/Gap Ratio	
4DYT Double Yellow (Temporary)			7045
S&S Plan No. 5	114		
S&S Plan No. 6	800		
S&S Plan No. 7	746		
S&S Plan No. 8	663		
S&S Plan No. 9	921		
S&S Plan No. 10	642		
S&S Plan No. 11	848		
S&S Plan No. 12	977		
S&S Plan No. 13	831		
S&S Plan No. 14	503		
Broken Double Yellow			
4BDYT (Temporary)	794	/ 3	265
S&S Plan No. 6	70		
S&S Plan No. 7	293		
S&S Plan No. 8	234		
S&S Plan No. 10	197		
		Total=	7310 LF



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T20.9901		BLPM	GREEN FRICTION HIGH VISIBILITY SURFACE		SF
Station Range		L/R		Quantity	
12+10	12+33	L		44	SF
12+95	13+17	L		44	SF
13+49	14+31	L		154	SF
14+61	15+22	L		110	SF
15+71	15+93	L		44	SF
16+00	16+23	L		44	SF
16+36	16+70	L		66	SF
16+86	17+14	L		55	SF
17+24	17+91	L		124	SF
19+98	20+23	R		311	SF
20+40	21+26	L		154	SF
21+41	21+26	R		153	SF
21+44	21+84	L		342	SF
22+08	22+36	R		55	SF
22+29	22+99	L		132	SF
23+42	23+82	L		66	SF
23+42	23+83	R		77	SF
23+82	24+01	L		224	SF
24+08	24+32	L		44	SF
24+78	25+02	R		44	SF
25+52	26+09	L		110	SF
25+81	26+28	R		88	SF
27+45	27+63	L		33	SF
28+04	28+61	L		110	SF
28+08	28+61	R		99	SF
30+10	30+32	L		44	SF
30+40	30+48	M		94	SF
30+58	30+88	R		85	SF
31+29	31+40	R		92	SF
32+93	33+24	R		85	SF
34+30	34+54	R		104	SF
34+90	35+32	R		147	SF
35+45	35+72	R		130	SF
37+14	37+54	R		63	SF
39+37	39+80	R		98	SF
41+25	41+57	R		68	SF
41+39	41+53	R		73	SF
42+50	42+74	R		68	SF
43+96	44+76	R		238	SF
46+60	46+87	R		85	SF
46+96	47+57	R		240	SF
48+71	48+87	R		72	SF
49+04	49+51	R		136	SF



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T20.9901 **BLPM** GREEN FRICTION HIGH VISIBILITY SURFACE SF

Station Range	L/R	Quantity	SF
51+59 51+97	R	112	SF
52+47 52+78	R	120	SF
53+92 54+34	R	112	SF
54+42 55+40	R	340	SF
55+54 55+74	R	96	SF
56+43 56+86	R	112	SF
56+65 56+83	R	322	SF
57+04 57+22	L	318	SF
57+18 57+29	R	66	SF
57+99 58+23	R	80	SF
58+65 59+63	R	317	SF
61+06 61+29	R	100	SF
61+77 62+58	R	256	SF
62+88 63+18	R	120	SF
64+61 64+96	R	84	SF
64+69 64+90	R	341	SF
64+85 64+97	R	69	SF
66+16 66+39	R	84	SF
67+15 67+77	R	180	SF
67+40 67+59	R	308	SF
68+12 68+36	L	363	SF
68+36 68+47	R	104	SF
68+88 69+09	R	44	SF
69+86 70+39	R	162	SF
71+21 71+72	R	225	SF
72+53 72+96	R	112	SF
75+10 75+72	R	176	SF
77+96 78+44	R	128	SF
78+06 78+25	R	321	SF
81+26 81+77	R	128	SF
83+45 83+86	R	112	SF
83+98 84+22	R	92	SF
84+39 85+02	R	210	SF
84+75 85+03	R	393	SF
84+77 85+27	L	305	SF
85+85 86+22	R	161	SF
86+86 87+25	R	133	SF
89+36 89+94	R	230	SF
90+78 91+08	R	110	SF
94+08 94+22	R	133	SF
94+27 95+18	R	168	SF
94+33 94+45	L	84	SF



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T20.9901

BLPM

GREEN FRICTION HIGH VISIBILITY SURFACE

SF

Station Range

L/R

	<u>Quantity</u>	
Subtotal =	<u>12080</u>	SF
Contingency (5%) =	<u>604</u>	SF
Total =	12690	SF



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T20.9902 **2LT** **EPOXY RESIN PAVEMENT MARKING - BICYCLE BOX SYMBOL** **EA**

Station	L/R	Quantity	
30+42	R	1	EA
31+35	R	1	EA
41+48	R	1	EA
57+25	R	1	EA
64+95	R	1	EA
68+42	R	1	EA
94+38	L	1	EA
		Total =	
		<u>7</u>	EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T20.9903 **BIKE** **EPOXY RESIN PAVEMENT MARKING WORD "BIKE"** **EA**

Station	L/R	Quantity	
11+92	L	1	EA
		Total =	EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T20.9904		BUS	EPOXY RESIN PAVEMENT MARKING WORD "BUS"		EA
Station	L/R		Quantity		
12+06	L		1		EA
21+96	L		1		EA
22+17	L		1		EA
23+95	R		1		EA
24+66	R		1		EA
30+70	L		1		EA
30+94	L		1		EA
39+29	L		1		EA
40+05	L		1		EA
57+57	L		1		EA
58+14	L		1		EA
66+85	L		1		EA
67+64	L		1		EA
80+39	L		1		EA
81+25	L		1		EA
			Total =	<u>15</u>	EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T20.9905 **EPOXY RESIN PAVEMENT MARKING - BICYCLE SYMBOL** **EA**

Station	L/R	Quantity	
20+20	R	1	EA
21+47	L	1	EA
23+85	L	1	EA
56+73	R	1	EA
57+13	L	1	EA
64+79	R	1	EA
67+49	R	1	EA
68+26	L	1	EA
78+14	R	1	EA
84+88	R	1	EA
85+15	L	1	EA
		Total =	
		11	EA



Project No: Y17396.22

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements - Advertising

T20.9906 **BYL** **EPOXY RESIN PAVEMENT MARKING - BIKE YIELD LINE SYMBOL** **EA**

Station	L/R	Quantity	
11+58	R	1	EA
17+07	R	1	EA
17+84	R	1	EA
18+11	L	1	EA
31+31	R	1	EA
31+60	R	1	EA
31+71	R	1	EA
31+98	R	1	EA
36+10	R	1	EA
36+89	R	1	EA
38+63	R	1	EA
38+92	R	1	EA
41+88	R	1	EA
42+15	R	1	EA
48+00	R	1	EA
48+30	R	1	EA
57+20	R	1	EA
57+49	R	1	EA
57+63	R	1	EA
57+90	R	1	EA
68+37	R	1	EA
68+66	R	1	EA
69+39	R	1	EA
69+66	R	1	EA
71+35	R	1	EA
71+91	R	1	EA
78+75	R	1	EA
78+99	R	1	EA
85+53	R	1	EA
85+81	R	1	EA
		Total =	EA
		30	

**APPENDIX E.2:
DISTRIBUTION OF QUANTITIES
BROAD STREET IMPROVEMENTS– RESURFACING**



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

201.0403

DSW

REMOVE AND DISPOSE SIDEWALKS

SY

Start Station	End Station	L/R	Area (SF)	Conversion (SY/SF)	Area (SY)
10+91	11+18	L	342	/ 9 =	38 SY
11+48	11+75	L	242	/ 9 =	27 SY
17+13	17+30	R	127	/ 9 =	15 SY
17+17	17+28	L	154	/ 9 =	18 SY
17+58	17+71	L	136	/ 9 =	16 SY
17+87	19+03	L	158	/ 9 =	18 SY
17+92	18+06	R	105	/ 9 =	12 SY
21+26	21+40	R	128	/ 9 =	15 SY
22+29	22+43	L	140	/ 9 =	16 SY
23+13	23+50	L	226	/ 9 =	26 SY
23+21	23+38	R	165	/ 9 =	19 SY
23+72	23+91	R	252	/ 9 =	28 SY
25+80	25+92	R	165	/ 9 =	19 SY
26+19	26+36	R	164	/ 9 =	19 SY
27+18	27+34	L	147	/ 9 =	17 SY
28+05	28+28	L	221	/ 9 =	25 SY
28+23	28+39	R	180	/ 9 =	20 SY
30+42	30+55	R	175	/ 9 =	20 SY
30+47	30+63	L	144	/ 9 =	16 SY
30+81	30+98	R	193	/ 9 =	22 SY
32+98	33+12	L	139	/ 9 =	16 SY
33+34	33+49	L	209	/ 9 =	24 SY
36+17	36+33	R	147	/ 9 =	17 SY
36+57	36+98	L	384	/ 9 =	43 SY
36+68	36+95	R	250	/ 9 =	28 SY
37+04	37+21	R	230	/ 9 =	26 SY
37+44	37+62	R	187	/ 9 =	21 SY
38+70	38+83	R	158	/ 9 =	18 SY
40+68	40+87	L	316	/ 9 =	36 SY
41+36	41+52	L	186	/ 9 =	21 SY
42+17	42+34	L	164	/ 9 =	19 SY
42+57	42+86	L	373	/ 9 =	42 SY
42+74	42+86	R	147	/ 9 =	17 SY
43+49	43+89	L	398	/ 9 =	45 SY
44+37	44+56	R	239	/ 9 =	27 SY

Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

44+62	44+79	L	283	/	9	=	32	SY
46+44	46+59	R	165	/	9	=	19	SY
46+40	46+56	L	265	/	9	=	30	SY
46+82	47+20	L	417	/	9	=	47	SY
47+84	47+95	L	112	/	9	=	13	SY
48+09	48+25	R	158	/	9	=	18	SY
48+98	49+12	R	143	/	9	=	16	SY
49+55	49+64	L	97	/	9	=	11	SY
51+44	51+59	R	149	/	9	=	17	SY
52+27	52+40	L	150	/	9	=	17	SY
54+32	54+46	L	143	/	9	=	16	SY
54+32	54+48	R	259	/	9	=	29	SY
54+72	54+80	L	105	/	9	=	12	SY
56+39	56+51	R	142	/	9	=	16	SY
56+85	56+96	R	81	/	9	=	9	SY
57+34	57+46	L	199	/	9	=	23	SY
58+02	58+12	L	118	/	9	=	14	SY
59+07	59+17	R	106	/	9	=	12	SY
60+72	60+81	L	106	/	9	=	12	SY
61+74	61+83	R	102	/	9	=	12	SY
62+16	62+30	R	101	/	9	=	12	SY
62+53	62+69	L	169	/	9	=	19	SY
65+16	65+26	L	199	/	9	=	23	SY
67+14	67+27	R	192	/	9	=	22	SY
67+61	67+75	R	123	/	9	=	14	SY
67+98	68+11	L	125	/	9	=	14	SY
68+40	68+65	R	201	/	9	=	23	SY
70+23	70+52	R	394	/	9	=	44	SY
71+64	71+84	L	182	/	9	=	21	SY
71+68	71+92	R	296	/	9	=	33	SY
72+23	72+36	L	298	/	9	=	34	SY
72+47	72+58	R	206	/	9	=	23	SY
72+99	73+09	L	127	/	9	=	15	SY
74+88	74+97	L	201	/	9	=	23	SY
75+59	75+77	R	178	/	9	=	20	SY
77+74	77+91	R	261	/	9	=	29	SY
77+88	78+00	L	141	/	9	=	16	SY
78+43	78+83	L	446	/	9	=	50	SY
83+10	83+36	L	314	/	9	=	35	SY
83+39	83+52	R	261	/	9	=	29	SY
83+81	83+92	R	128	/	9	=	15	SY



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

84+62	84+76	R	163	/	9	=	19	SY
85+04	85+17	R	171	/	9	=	19	SY
86+71	86+98	L	429	/	9	=	48	SY
86+78	86+93	R	207	/	9	=	23	SY
89+36	89+62	R	373	/	9	=	42	SY
91+11	91+21	L	119	/	9	=	14	SY
93+17	93+30	L	142	/	9	=	16	SY
93+55	93+67	L	157	/	9	=	18	SY
94+17	94+42	L	246	/	9	=	28	SY
94+95	95+33	R	367	/	9	=	41	SY
95+16	95+49	L	323	/	9	=	36	SY
			<hr/>					
			17631			Total =	<hr/> 1999	SY



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

Date: 7/8/2021

201.0407 REMOVE AND DISPOSE PAVEMENT AND RIGID BASE SY

			Length (LF)		Width (LF)		Convert (SY/SF)	Area (SY)		
From	906.0112	GCS	GRANITE CURB PROVIDENCE STANDARD 7" STRAIGHT							
			349	X	1	/	9	=	39 SY	
From	906.0113	GCC	GRANITE CURB PROVIDENCE STANDARD 7" CIRCULAR							
			87	X	1	/	9	=	10 SY	
From	906.0700	RHH	REMOVE, HANDLE, HAUL TRIM RESET CURB EDGING, STRAIGHT, CIRCULAR ALL TYPES							
			897	X	1	/	9	=	100 SY	
From	906.9903	7.3.9P	PROVIDENCE STANDARD GRANITE RAMP STONE, RI STANDARD 7.3.9 MODIFIED (7") - STRAIGHT							
			88	X	1	/	9	=	10 SY	
From	906.9904	7.3.9PC	PROVIDENCE STANDARD GRANITE RAMP STONE, RI STANDARD 7.3.9 MODIFIED (7") - CIRCULAR							
			112	X	1	/	9	=	13 SY	
			Total =						<u>172</u>	SY



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

201.0450 **SGC** **REMOVE AND STOCKPILE GRANITE CURB** **LF**

Start Station	End Station	L/R	Length	
11+50	11+78	L	32	LF
23+13	23+43	L	30	LF
27+18	27+34	L	4	LF
28+39	28+39	R	5	LF
30+47	30+49	R	4	LF
32+98	33+12	L	14	LF
33+39	33+45	L	6	LF
33+45	33+45	L	4	LF
36+17	36+33	R	12	LF
36+68	36+95	R	27	LF
36+72	36+83	L	11	LF
38+80	38+85	R	5	LF
40+87	40+87	L	5	LF
42+72	42+85	L	13	LF
43+78	43+78	L	2	LF
43+88	43+88	L	2	LF
46+92	47+20	L	4	LF
49+63	49+64	L	4	LF
56+49	56+51	R	4	LF
56+87	56+89	R	4	LF
62+18	62+20	R	4	LF
68+44	68+60	R	16	LF
70+26	70+27	R	5	LF
71+68	71+86	R	18	LF
71+71	71+77	L	5	LF
83+10	83+36	L	4	LF
86+89	86+98	L	38	LF
91+11	91+19	L	15	LF
93+28	93+30	L	3	LF
93+55	93+57	L	3	LF
95+20	95+36	L	16	LF
94+95	95+05	R	15	LF
95+18	95+30	R	12	LF
95+16	95+25	L	9	LF
95+34	95+40	L	10	LF

Total = 365 **LF**



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

201.0610 **DS** **REMOVE AND DISPOSE DIRECTIONAL, WARNING, REGULATORY,
SERVICE, AND STREET SIGNS** **EA**

Station	L/R	Quantity	
33+45	L	1	EA
70+30	R	1	EA
81+72	R	1	EA
86+93	L	1	EA
		Total =	4 EA



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

201.9901 **RRBH** REMOVE, STOCKPILE, AND RESET OR RELOCATE BIKE HITCH EA

From	To	Quantity	
36+82 L	37+00 L	1	EA
		<hr/>	
		Total= 1	EA



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

201.9903	RS	REMOVE AND RESET SIGN	EA
Station	L/R	Quantity	
37+47	R	1	EA
42+33	L	1	EA
44+39	R	1	EA
44+77	L	2	EA
57+44	L	1	EA
68+44	R	1	EA
74+90	L	1	EA
83+84	R	1	EA
93+60	L	1	EA
		Total =	
		<u>10</u>	EA



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

201.9904 **DBC** **REMOVE AND DISPOSE BRICK CROSSWALK** **SF**

Start Station	End Station	L/R	Area	
94+23	94+33	M	623	SF
95+18	95+25	M	385	SF
			Total =	
			1008	SF



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

201.9905 ABAN ABANDON EXISTING SIGNAL HANDHOLE EA

Station	L/R	Quantity	
41+46	L	1	EA
		Total =	EA



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

201.9906 DTR REMOVE AND DISPOSE TRASH RECEPTACLE EA

Station	L/R	Quantity	
57+44	L	1	EA
Total =			EA



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

201.9907 **RRB** REMOVE AND RELOCATE BENCH EA

Station	L/R	Quantity	
33+20	L	1	EA
		Total =	1 EA



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

201.9908 **RRP** REMOVE AND RELOCATE PLANTER EA

Station	L/R	Quantity	
38+75	R	1	EA
		Total =	1 EA



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

202.0100 **EARTH EXCAVATION** **CY**

From 905.0110 **43.1.0** PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD

Assumed depth = 8 IN

17428 SF X 8 IN / 324 CY/SF*IN = 431 CY

Total = 431 CY



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

204.0100

TRIMMING AND FINE GRADING

SY

From 905.0110 43.1.0 PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD

17428 SF / 9 SY/SF = 1937 SY

Total = 1937 SY



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

206.9901	COMPOST FILTER SOCK INLET PROTECTION	EA
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Project Wide	35	EA
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Total =	<u>35</u>	EA
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Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

209.0200 SSK SILT SACK INSERT CATCH BASIN INLET PROTECTION EA

Project Wide

Total = 24 EA



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

212.2000 CLEANING AND MAINTENANCE OF EROSION CONTROLS LS

Assume 1 replacement of CFS and SSK

Total = 1 LS



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

302.0100 GRAVEL BORROW SUBBASE COURSE CY

From 905.0110 43.1.0 PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD

Depth = 8 IN

17428 SF X 8 IN / 324 CY/SF*IN = 431 CY

Total: 431 CY



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

401.3000 CLASS 9.5 HMA TON

Component	Area (SY)		Conversion (TON/SY)	=	Volume (TON)	
From 935.0400	56040	X	0.09	=	5044	TON
From 201.9904	112	X	0.18	=	20	TON
			Total	=	<u>5064</u>	TON

Assume a 1.5" resurfacing depth
Use a factor of 0.06 TON/SY per inch



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

401.3003 CLASS 9.5 HMA FOR PATCHING TON

Component	Area (SY)		Conversion (TON/SY)	=	Volume (TON)	
From 601.0300	171	X	0.18	=	31	TON
			Total	=	<u>31</u>	TON

Assume a 3" patch depth
Use a factor of 0.06 TON/SY per inch



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

403.0300 ASPHALT EMULSION TACK COAT SY

From 401.3000 CLASS 9.5 HMA

No. of HMA Layers 1

1 Layers = 56040 SY

Total = 56040 SY



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

601.0300 CLASS A PORTLAND CEMENT CONCRETE CY

Assumed Width 1 LF
Assumed Depth 9 IN 18" CURB - 6" REVEAL - 3" SURFACE = 9"

From 906.0112 GRANITE CURB PROVIDENCE STANDARD 7" STRAIGHT
Conversion
349 LF X 1 LF X 9 IN / 324 = 10 CY

From 906.0113 GRANITE CURB PROVIDENCE STANDARD 7" CIRCULAR
Conversion
87 LF X 1 LF X 9 IN / 324 = 3 CY

From 906.0700 REMOVE, HANDLE, HAUL TRIM RESET CURB EDGING, STRAIGHT, CIRCULAR ALL TYPES
Conversion
897 LF X 1 LF X 9 IN / 324 = 25 CY

From 906.9903 PROVIDENCE STANDARD GRANITE RAMP STONE, RI STANDARD 7.3.9 MODIFIED (7") - STRAIGHT
Conversion
88 LF X 1 LF X 9 IN / 324 = 3 CY

From 906.9904 PROVIDENCE STANDARD GRANITE RAMP STONE, RI STANDARD 7.3.9 MODIFIED (7") - CIRCULAR
Conversion
112 LF X 1 LF X 9 IN / 324 = 4 CY

Subtotal = 1533 SF

Total = 45 CY

Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

702.9901 **6.3.6P** PROVIDENCE STANDARD RECTANGULAR FRAME AND GRATE EA

Station	L/R	Quantity	
11+59	L	1	EA
30+57	R	1	EA
		<hr/>	
		Total =	
		2	EA

Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

702.9902 7.3.5P PROVIDENCE STANDARD GRANITE INLET STONE 5 FOOT
STANDARD 7.3.5 EA

Station	L/R	Quantity	
11+50	L	1	EA
28+39	R	1	EA
40+87	L	1	EA
70+26	R	1	EA
		<hr/>	
Total =		4	EA

Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

702.9903 4.5.0M BRICK DROP INLET EA

Station	L/R	Quantity	
11+59	L	1	EA
30+57	R	1	EA
		<hr/>	
		Total =	
		2	EA



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

704.0300	RECONSTRUCT CATCH BASIN/VERTICAL WALLS		VLF
Contingency		50	VLF



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

707.0900 **ADJUST MANHOLE TO GRADE** **EA**

Station	L/R	Quantity	
Within resurfacing limits		18	EA
		Total =	
		<u>18</u>	EA



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

707.0950 **ADJUST TELEPHONE MANHOLE TO GRADE** **EA**

Station	L/R	Quantity	
Within resurfacing limits		61	EA
		Total =	
		<u>61</u>	EA



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

707.0955 **ADJUST ELECTRICAL MANHOLE TO GRADE** **EA**

Station	L/R	Quantity	
Within resurfacing limits		55	EA
		Total =	EA



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

707.1000 **ADJUST SANITARY MANHOLE TO GRADE** **EA**

Station	L/R	Quantity	
Within resurfacing limits		177	EA
		Total =	EA



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

707.1100	AB	ADJUST CATCH BASINS	EA
Station	L/R	Quantity	
23+38	R	1	EA
23+74	R	1	EA
23+85	R	1	EA
25+91	R	1	EA
28+38	R	1	EA
30+55	R	1	EA
30+83	R	1	EA
36+58	L	1	EA
37+21	R	1	EA
37+46	R	1	EA
40+85	L	1	EA
42+60	L	1	EA
46+45	L	1	EA
47+86	L	1	EA
51+46	R	1	EA
67+18	R	1	EA
70+28	R	1	EA
72+51	R	1	EA
78+26	R	1	EA
95+43	L	1	EA
		Total =	20 EA



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

707.2000 **ADJUST FRAME AND GRATE TO GRADE** **EA**

Station	L/R	Quantity	
Within resurfacing limits		71	EA
		Total =	
		<u>71</u>	EA



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

707.9901 **ADJUST DRAINAGE MANHOLE TO GRADE** **EA**

Station	L/R	Quantity	
Within resurfacing limits		39	EA
		Total =	
		<u>39</u>	EA



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

708.9041	CCB	CLEAN CATCH BASIN	EA
Station	L/R	Quantity	EA
30+45	R	1	EA
30+56	R	1	EA
41+50	L	1	EA
51+46	R	1	EA
59+04	R	1	EA
61+72	R	1	EA
67+19	R	1	EA
67+26	R	1	EA
72+51	R	1	EA
78+25	R	1	EA
83+93	R	1	EA
85+20	R	1	EA
86+93	R	1	EA
95+11	L	1	EA
95+44	L	1	EA
		Total =	15 EA



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

713.8269

AW

ADJUST WATER GATE BOXES TO GRADE

EA

Station	L/R	Quantity	
17+88	L	1	EA
36+20	R	1	EA
36+82	R	1	EA
42+73	L	1	EA
78+61	L	1	EA
83+24	L	1	EA
Within resurfacing limits		126	EA
		Total =	132 EA



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

713.8300	AG	ADJUST GAS GATE BOXES TO GRADE	EA
Station	L/R	Quantity	
56+88	R	1	EA
68+47	R	1	EA
78+67	L	1	EA
Within resurfacing limits		47	EA
		Total =	50 EA



Project No: Y20645.11

Designed by: NRW

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Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

713.9901 **ADJUST UNKNOWN GATE TO GRADE** **EA**

Station	L/R	Quantity	
Within resurfacing limits		60	EA
		Total =	
		<u>60</u>	EA



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

905.0110 **43.1.0** PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD CY

Start Station	End Station	L/R	Area (SF)	Depth (IN)	Conversion (CY/SF*IN)	Volume (CY)
10+91	11+18	L	342	8	324	9
11+48	11+75	L	229	8	324	6
17+13	17+30	R	127	4	324	2
17+17	17+28	L	154	8	324	4
17+58	17+71	L	136	8	324	4
17+87	19+03	L	158	4	324	2
17+92	18+06	R	105	4	324	2
21+26	21+40	R	128	8	324	4
22+29	22+43	L	140	8	324	4
23+13	23+50	L	226	4	324	3
23+21	23+38	R	165	8	324	5
23+72	23+91	R	252	8	324	7
25+80	25+92	R	165	8	324	5
26+19	26+36	R	164	8	324	5
27+18	27+34	L	147	4	324	2
28+05	28+28	L	221	8	324	6
28+23	28+39	R	180	8	324	5
30+42	30+55	R	167	8	324	5
30+47	30+63	L	134	4	324	2
30+81	30+98	R	193	8	324	5
32+98	33+12	L	125	4	324	2
33+34	33+49	L	209	8	324	6
36+17	36+33	R	147	4	324	2
36+57	36+98	L	365	8	324	10
36+68	36+95	R	250	4	324	4
37+04	37+21	R	220	8	324	6
37+44	37+62	R	176	8	324	5
38+70	38+83	R	158	4	324	2
40+68	40+87	L	305	8	324	8
41+36	41+52	L	186	8	324	5
42+17	42+34	L	157	8	324	4
42+57	42+86	L	373	8	324	10
42+74	42+86	R	147	4	324	2
43+49	43+89	L	398	4	324	5

Project No: Y20645.11

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Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

44+37	44+56	R	239	X	8	/	324	=	6	CY
44+62	44+79	L	283	X	8	/	324	=	7	CY
46+44	46+59	R	165	X	8	/	324	=	5	CY
46+40	46+56	L	265	X	8	/	324	=	7	CY
46+82	47+20	L	417	X	8	/	324	=	11	CY
47+84	47+95	L	112	X	8	/	324	=	3	CY
48+09	48+25	R	158	X	4	/	324	=	2	CY
48+98	49+12	R	143	X	8	/	324	=	4	CY
49+55	49+64	L	97	X	8	/	324	=	3	CY
51+44	51+59	R	149	X	8	/	324	=	4	CY
52+27	52+40	L	150	X	8	/	324	=	4	CY
54+32	54+46	L	143	X	8	/	324	=	4	CY
54+32	54+48	R	259	X	8	/	324	=	7	CY
54+72	54+80	L	105	X	8	/	324	=	3	CY
56+39	56+51	R	142	X	8	/	324	=	4	CY
56+85	56+96	R	81	X	8	/	324	=	2	CY
57+34	57+46	L	190	X	8	/	324	=	5	CY
58+02	58+12	L	118	X	8	/	324	=	3	CY
59+07	59+17	R	106	X	8	/	324	=	3	CY
60+72	60+81	L	106	X	8	/	324	=	3	CY
61+74	61+83	R	102	X	8	/	324	=	3	CY
62+16	62+30	R	101	X	8	/	324	=	3	CY
62+53	62+69	L	169	X	8	/	324	=	5	CY
65+16	65+26	L	199	X	8	/	324	=	5	CY
67+14	67+27	R	192	X	8	/	324	=	5	CY
67+61	67+75	R	123	X	8	/	324	=	4	CY
67+98	68+11	L	125	X	8	/	324	=	4	CY
68+40	68+65	R	201	X	4	/	324	=	3	CY
70+23	70+52	R	394	X	8	/	324	=	10	CY
71+64	71+84	L	182	X	8	/	324	=	5	CY
71+68	71+92	R	296	X	4	/	324	=	4	CY
72+23	72+36	L	298	X	8	/	324	=	8	CY
72+47	72+58	R	206	X	8	/	324	=	6	CY
72+99	73+09	L	127	X	4	/	324	=	2	CY
74+88	74+97	L	201	X	8	/	324	=	5	CY
75+59	75+77	R	178	X	8	/	324	=	5	CY
77+74	77+91	R	233	X	8	/	324	=	6	CY
77+88	78+00	L	141	X	4	/	324	=	2	CY
78+43	78+83	L	446	X	4	/	324	=	6	CY

Project No: Y20645.11

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Broad Street Improvements
Resurfacing Advertising

83+10	83+36	L	314	X	4	/	324	=	4	CY
83+39	83+52	R	261	X	8	/	324	=	7	CY
83+81	83+92	R	128	X	8	/	324	=	4	CY
84+62	84+76	R	163	X	8	/	324	=	5	CY
85+04	85+17	R	165	X	8	/	324	=	5	CY
86+71	86+98	L	429	X	8	/	324	=	11	CY
86+78	86+93	R	198	X	8	/	324	=	5	CY
89+36	89+62	R	373	X	4	/	324	=	5	CY
91+11	91+21	L	119	X	8	/	324	=	3	CY
93+17	93+30	L	142	X	8	/	324	=	4	CY
93+55	93+67	L	157	X	8	/	324	=	4	CY
94+17	94+42	L	201	X	4	/	324	=	3	CY
94+95	95+33	R	364	X	8	/	324	=	9	CY
95+16	95+49	L	323	X	8	/	324	=	8	CY

Subtotal = 17428 SF

Total = 416 CY

Use 4" depth when midblock crossing
Use 8" depth when on a corner



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

7.3.3P

GCS

906.0112 GRANITE CURB PROVIDENCE STANDARD 7" STRAIGHT LF

Station Range	L/R	Length		
11+49	11+54	L	7	LF
11+54	11+61	L	10	LF SW
11+57	11+61	L	3	LF
11+73	11+78	L	6	LF SW
17+13	17+30	R	17	LF SW
17+17	17+22	L	8	LF SW
17+92	18+06	R	14	LF SW
23+13	23+30	L	17	LF SW
23+16	23+22	L	6	LF
23+26	23+43	L	17	LF
27+18	27+34	L	17	LF
28+39	28+40	R	6	LF
30+42	30+48	R	12	LF SW
30+47	30+61	L	16	LF SW
30+82	30+83	R	6	LF
33+00	33+12	L	12	LF SW
36+17	36+23	R	6	LF
36+17	36+23	R	16	LF SW
36+27	36+33	R	6	LF
36+68	36+82	R	14	LF
36+72	36+79	L	7	LF
36+72	36+93	L	21	LF SW
36+82	36+85	R	4	LF
36+83	36+90	L	11	LF SW
36+82	36+95	R	13	LF SW
36+90	36+90	R	5	LF
36+90	36+95	R	5	LF
37+04	37+13	R	18	LF SW
37+18	37+22	R	5	LF SW
37+52	37+62	R	18	LF SW
38+80	38+85	R	5	LF
40+68	40+77	L	20	LF SW
42+17	42+24	L	7	LF SW
42+72	42+77	L	5	LF
42+81	42+85	L	5	LF
43+51	43+66	L	15	LF
43+77	43+89	L	12	LF
46+88	47+01	L	16	LF SW
46+92	47+20	L	28	LF
48+09	48+19	R	10	LF SW
57+40	57+46	L	16	LF SW
58+04	58+12	L	8	LF
68+44	68+50	R	6	LF



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Broad Street Improvements
Resurfacing Advertising

68+54	68+60	R	6	LF	
71+68	71+75	R	7	LF	
71+79	71+86	R	7	LF	
72+99	73+09	L	10	LF	SW
78+43	78+83	L	40	LF	
77+80	77+82	R	15	LF	SW
83+10	83+36	L	26	LF	
85+11	85+17	R	10	LF	SW
86+78	86+93	R	11	LF	SW
86+94	86+97	L	12	LF	
89+36	89+60	R	24	LF	
94+20	94+26	L	6	LF	
94+20	94+36	L	16	LF	SW
94+30	94+36	L	6	LF	
94+95	95+02	R	7	LF	SW
95+18	95+22	R	4	LF	
95+26	95+30	R	4	LF	
95+16	95+19	L	3	LF	
95+23	95+26	L	3	LF	
95+33	95+36	L	4	LF	
95+39	95+41	L	4	LF	

Total = 701 LF

Total at Pavement = 349 LF

Total at Back of Sidewalk = 352 LF



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Broad Street Improvements
Resurfacing Advertising

7.3.3PC

GCC

906.0113 GRANITE CURB PROVIDENCE STANDARD 7" CIRCULAR LF

Station Range		L/R	Length		
11+59	11+68	L	12	LF	
11+61	11+73	L	14	LF	SW
11+72	11+78	L	7	LF	
30+48	30+52	R	5	LF	
30+82	30+82	R	6	LF	
33+39	33+45	L	6	LF	
37+12	37+14	R	4	LF	
42+24	42+27	L	5	LF	SW
42+57	42+59	L	3	LF	
42+62	42+65	L	4	LF	
71+71	71+77	L	7	LF	
74+94	74+97	L	8	LF	SW
77+86	77+92	R	8	LF	
86+89	86+94	L	10	LF	
91+11	91+11	L	4	LF	
91+16	91+19	L	4	LF	
94+99	95+05	R	7	LF	

Total = 114 LF

Total at Pavement = 87 LF

Total at Back of Sidewalk = 27 LF



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Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

906.0700 **RHH** REMOVE, HANDLE, HAUL TRIM RESET CURB EDGING, STRAIGHT, LF
CIRCULAR ALL TYPES

Station Range	L/R	Length	
11+13	11+17	L	5 LF
11+17	11+18	L	5 LF
17+13	17+30	R	17 LF
17+17	17+28	L	25 LF
17+63	17+65	L	4 LF
17+68	17+70	L	4 LF
17+87	17+92	L	5 LF
17+92	18+06	R	14 LF
17+98	18+03	L	6 LF
21+26	21+35	R	14 LF
22+33	22+36	L	3 LF
22+40	22+42	L	5 LF
23+32	23+35	L	4 LF
23+34	23+36	R	3 LF
23+38	23+39	R	3 LF
23+39	23+43	L	4 LF
23+73	23+83	R	13 LF
25+85	25+93	R	12 LF
26+19	26+28	R	12 LF
28+17	28+26	L	15 LF
28+30	28+39	R	14 LF
30+48	30+56	R	10 LF
30+55	30+59	R	4 LF
30+81	30+82	R	4 LF
30+85	30+88	R	4 LF
32+99	33+03	L	3 LF
33+06	33+09	L	3 LF
33+47	33+49	L	24 LF
36+57	36+76	L	24 LF
37+04	37+23	R	34 LF
37+46	37+54	R	16 LF
38+70	38+75	R	5 LF
38+79	38+83	R	4 LF
40+82	40+87	L	16 LF
41+38	41+48	L	11 LF

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Broad Street Improvements
Resurfacing Advertising

42+25	42+34	L	14	LF
42+65	42+72	L	7	LF
42+74	42+77	R	5	LF
42+81	42+84	R	4	LF
44+36	44+44	R	17	LF
44+62	44+72	L	15	LF
46+50	46+57	L	11	LF
46+51	46+58	R	14	LF
46+82	46+84	L	6	LF
46+87	46+90	L	6	LF
47+90	47+96	L	12	LF
48+09	48+19	R	12	LF
49+05	49+11	R	14	LF
49+60	49+62	L	4	LF
49+64	49+64	L	4	LF
51+51	51+58	R	14	LF
52+27	52+32	L	15	LF
54+32	54+37	R	14	LF
54+41	54+46	L	14	LF
54+72	54+74	L	14	LF
56+48	56+49	R	6	LF
56+51	56+52	R	5	LF
56+85	56+87	R	6	LF
56+89	56+91	R	5	LF
57+32	57+39	L	24	LF
59+14	59+17	R	14	LF
60+70	60+76	L	15	LF
61+79	61+84	R	10	LF
62+17	62+18	R	4	LF
62+20	62+23	R	4	LF
62+60	62+67	L	16	LF
65+12	65+19	L	16	LF
67+24	67+28	R	14	LF
67+61	67+68	R	10	LF
68+05	68+11	L	11	LF
70+28	70+52	R	29	LF
71+78	71+80	L	5	LF
71+82	71+83	L	5	LF
72+18	72+18	L	7	LF
72+21	72+23	L	10	LF
72+58	72+60	R	4	LF
72+61	72+61	R	4	LF
73+09	73+13	L	4	LF



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Broad Street Improvements
Resurfacing Advertising

73+15	73+19	L	4	LF
74+84	74+88	L	14	LF
75+60	75+62	R	6	LF
75+64	75+67	R	4	LF
77+91	77+93	R	5	LF
77+94	77+94	R	4	LF
77+88	77+92	L	3	LF
77+96	78+00	L	4	LF
83+50	83+53	R	5	LF
83+55	83+56	R	4	LF
83+80	83+81	R	4	LF
83+82	83+85	R	5	LF
84+71	84+74	R	4	LF
84+76	84+77	R	4	LF
85+05	85+07	R	3	LF
85+10	85+13	R	4	LF
86+89	86+92	R	4	LF
86+94	86+94	R	4	LF
93+27	93+29	L	4	LF
93+30	93+30	L	4	LF
93+54	93+54	L	5	LF
93+57	93+59	L	6	LF

Total = 897 **LF**



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Broad Street Improvements
Resurfacing Advertising

906.9903 **7.3.9P** **PROVIDENCE STANDARD GRANITE RAMP STONE, RI STANDARD**
7.3.9 MODIFIED (7") - STRAIGHT **EA**

Station	L/R	Quantity	
11+54	L	1	EA
17+67	L	1	EA
17+95	L	1	EA
23+37	L	1	EA
30+53	L	1	EA
33+04	L	1	EA
36+26	R	1	EA
36+75	R	1	EA
38+77	R	1	EA
42+79	R	1	EA
42+79	L	1	EA
68+52	R	1	EA
71+77	R	1	EA
71+81	L	1	EA
73+04	L	1	EA
77+95	L	1	EA
83+82	R	1	EA
86+97	L	1	EA
94+28	L	1	EA
95+20	L	1	EA
95+24	R	1	EA
95+37	L	1	EA
		Total =	EA
		22	



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Broad Street Improvements
Resurfacing Advertising

906.9904	7.3.9PC	PROVIDENCE STANDARD GRANITE RAMP STONE, RI STANDARD	7.3.9 MODIFIED (7") - CIRCULAR	EA
Station	L/R	Quantity		
11+17	L	1		EA
11+67	L	1		EA
17+31	L	1		EA
22+38	L	1		EA
23+37	R	1		EA
28+24	L	1		EA
28+36	R	1		EA
30+54	R	1		EA
30+83	R	1		EA
42+60	L	1		EA
46+55	L	1		EA
46+85	L	1		EA
49+64	L	1		EA
56+51	R	1		EA
56+88	R	1		EA
62+19	R	1		EA
72+19	L	1		EA
72+61	R	1		EA
75+63	R	1		EA
77+93	R	1		EA
83+54	R	1		EA
84+75	R	1		EA
85+08	R	1		EA
86+93	R	1		EA
91+12	L	1		EA
93+30	L	1		EA
93+55	L	1		EA
94+99	R	1		EA
		Total =	<u>28</u>	EA



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Broad Street Improvements
Resurfacing Advertising

906.9906	RRCR	REMOVE AND RELOCATE CURB RETURN			EA
	Station Range	L/R	Each		
	43+65 43+50	L	1	EA	
	58+02 58+10	L	1	EA	
	78+44 78+84	L	1	EA	
	89+37 89+61	R	1	EA	
			Total =	EA	
			<u>4</u>		



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Checked by: DBC

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Broad Street Improvements
Resurfacing Advertising

907.0200 **CALCIUM CHLORIDE FOR DUST CONTROL** **TON**

From 905.0110 **43.1.0** PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD

$$17428 \text{ SF} \quad / \quad 9 \text{ (SY/SF)} \quad \times \quad 1.5 \text{ (LBS/SY)} \\ = \quad 2905 \text{ LBS} \quad = \quad 1.45 \text{ TON}$$

$$\text{Total} = \underline{\quad 2 \quad} \text{ TON}$$



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Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

914.5010

FLAGPERSONS

MHRS

Flagpersons	Hours/Day		Days/Week		Week/Const Season		Quantity		
2	X	8	X	5	X	9	=	<u>720</u>	MHRS
							Total =	720	MHRS



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Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

914.5020

FLAGPERSONS - OVERTIME

MHRS

**Flagpersons
Man Hours**

720

X

Flagpersons

0.2

Quantity

=

144

MHRS

Total =

144

MHRS



Project No: Y20645.11

Designed by: NRW

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Broad Street Improvements
Resurfacing Advertising

919.0101

TEST PITS

EA

Project Wide

	Quantity	
	2	EA
Total =	<u>2</u>	EA



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Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

922.0100 **TEMPORARY CONSTRUCTION SIGNS STANDARD 29.1.0 AND 27.1.1** **SF**

Sign	Quantity	Dimensions		Conversion		Area (SF)			
		IN.		IN.	(IN ² /FT ²)				
G20-2a	4	48	X	24	/	144	=	32.00	SF
W20-1	4	36	X	36	/	144	=	36.00	SF
W20-4	2	36	X	36	/	144	=	18.00	SF
W20-7a	2	36	X	36	/	144	=	18.00	SF
W20-7b	2	36	X	36	/	144	=	18.00	SF
W24-1L	2	36	X	36	/	144	=	18.00	SF
RI-27.1.1	4	24	X	36	/	144	=	24.00	SF
						Total =		164	SF



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Broad Street Improvements
Resurfacing Advertising

923.0105

DRUM BARRICADE STANDARD 26.2.0

BDAY

Barrels and cones are interchangeable.

From 923.0200 FLUORESCENT TRAFFIC CONES STANDARD 26.1.0

Quantity = 32 EA

Assume barrels will be needed for 45 days

Barrels **Days**
32 X 45 = 1440 BDAY

Total = 1440 BDAY



Project No: Y20645.11

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Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

923.0125	PLASTIC PIPE TYPE III BARRICADE STANDARD 26.3.1	EA
Assume 100' outer barricade around work zone	20	EA
	Total =	EA
	20	



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Broad Street Improvements
Resurfacing Advertising

923.0200 FLUORESCENT TRAFFIC CONES STANDARD 26.1.0 EA

Per MUTCD, cone spacing is equal to half of the roadway speed

From TYPICAL LANE SHIFT ON TWO-LANE ROADWAY 25 mph
Spacing: 12 ft

Assume 1 taper of 125', 1 buffer space of 55', and 1 taper of 125' at far side of work zone

	Spacing	Length	Quantity	
Taper	12	125	11	EA
Work Zone	12	60	5	EA
Buffer	12	55	5	EA
Taper	12	125	11	EA
Setups required	1			
		Subtotal	32	EA

From TYPICAL LANE CLOSURE ON TWO-LANE ROADWAY

Assume 1 taper of 125', 1 buffer space of 55', and 1 taper of 125' at far side of work zone

	Spacing	Length	Quantity	
Taper	12	125	11	EA
Work Zone	12	60	5	EA
Buffer	12	55	5	EA
Taper	12	125	11	EA
Setups required	1			
		Subtotal	32	EA



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Broad Street Improvements
Resurfacing Advertising

923.0200

FLUORESCENT TRAFFIC CONES STANDARD 26.1.0

EA

From TYPICAL SIDEWALK DIVERSION

Assume 1 taper of 50' at near side of work zone and 1 taper of 50' at far side of work zone

	Spacing	Length	Quantity	
	12	50	5	EA
	12	50	5	EA
Setups required	1			
		Subtotal	<u>10</u>	EA
		TOTAL	32	



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Broad Street Improvements
Resurfacing Advertising

931.0110 **CLEANING AND SWEEPING PAVEMENT** **HSY**

Start Station	End Station	L/R	Area (SF)	SY/100	Area	
11+08	87+29	M	465001 /	900 =	517	HSY
89+22	95+95	M	39290 /	900 =	44	HSY
				SAY	561	HSY



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

932.0100

CUTTING AND MATCHING ASPHALT

LF

Start Station	End Station	L/R	Length	
11+03	11+20	L	24	LF
11+07	11+07	M	53	LF
13+65	14+35	L	69	LF
17+24	17+42	L	25	LF
20+15	20+33	L	25	LF
21+01	21+25	R	25	LF
22+63	22+85	L	25	LF
23+39	23+70	R	32	LF
25+72	26+05	L	34	LF
25+89	26+12	R	24	LF
28+38	28+73	L	37	LF
28+32	28+54	R	24	LF
30+49	30+73	R	25	LF
31+19	31+43	L	25	LF
32+79	33+24	R	45	LF
33+52	33+75	L	24	LF
34+98	35+19	R	22	LF
36+24	36+54	L	31	LF
37+15	37+36	R	21	LF
38+74	39+04	L	31	LF
39+45	39+66	R	22	LF
40+82	41+12	L	30	LF
41+43	41+72	R	31	LF
42+33	42+55	L	23	LF
44+13	44+42	R	30	LF
44+34	44+58	L	24	LF
46+59	46+89	R	31	LF
46+57	46+81	L	25	LF
47+93	48+11	L	19	LF
49+20	49+49	R	30	LF
49+62	49+86	L	24	LF
51+60	51+88	R	30	LF
51+93	52+30	L	35	LF
53+98	54+26	R	30	LF
54+59	54+83	L	24	LF
56+41	56+68	R	31	LF
57+21	57+44	L	25	LF
59+18	59+45	R	30	LF



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Broad Street Improvements
Resurfacing Advertising

60+68	60+89	L	24	LF
61+70	61+98	R	30	LF
62+89	63+10	L	24	LF
64+40	64+73	R	35	LF
65+05	65+27	L	24	LF
67+14	67+42	R	30	LF
68+42	68+72	L	34	LF
69+81	70+08	R	30	LF
71+96	72+22	L	30	LF
72+47	72+75	R	30	LF
74+84	75+04	L	23	LF
75+27	75+55	R	30	LF
77+81	78+09	R	31	LF
81+33	81+62	R	30	LF
81+75	82+03	L	30	LF
83+45	83+68	R	24	LF
84+77	85+03	R	27	LF
84+77	84+90	L	31	LF
86+94	87+19	R	26	LF
86+97	87+26	L	30	LF
87+25	87+32	M	54	LF
89+19	89+26	M	53	LF
90+81	91+10	L	30	LF
93+37	93+60	L	24	LF
94+30	94+95	R	65	LF
95+68	95+84	L	25	LF
95+95	95+95	M	54	LF

Total = 1993 **LF**



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Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

932.0210 FULL DEPTH SAWCUT OF BITUMINOUS PAVEMENT AND RIGID BASE LF

**Length
(LF)**

From	906.0112	(GCS)	GRANITE CURB PROVIDENCE STANDARD 7" STRAIGHT	349
From	906.0113	(GCC)	GRANITE CURB PROVIDENCE STANDARD 7" CIRCULAR	87
From	906.0700	(RHH)	REMOVE, HANDLE, HAUL TRIM RESET CURB EDGING, STRAIGHT, CIRCULAR ALL TYPES	897
From	906.9903	(7.3.9P)	PROVIDENCE STANDARD GRANITE RAMP STONE, RI STANDARD 7.3.9 MODIFIED (7") - STRAIGHT	88
From	906.9904	(7.3.9PC)	PROVIDENCE STANDARD GRANITE RAMP STONE, RI STANDARD 7.3.9 MODIFIED (7") - CIRCULAR	112
From	201.9904	(DBC)	REMOVE AND DISPOSE BRICK CROSSWALK	234

Total = 1767



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Checked by: DBC

Date: 7/8/2021

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Broad Street Improvements
Resurfacing Advertising

**FULL DEPTH SAWCUT OF PORTLAND CEMENT CONCRETE
SIDEWALK/DRIVEWAY**

932.0230

LF

Start Station	End Station	L/R	Length	
10+91	10+91	L	10	LF
11+04	11+10	L	9	LF
11+48	11+53	L	8	LF
11+74	11+75	L	9	LF
17+13	17+13	R	8	LF
17+17	17+17	L	15	LF
17+21	17+24	L	4	LF
17+30	17+30	R	8	LF
17+59	17+65	L	8	LF
17+65	17+70	L	9	LF
17+71	17+77	L	8	LF
17+72	17+77	L	8	LF
17+87	17+87	L	10	LF
17+87	18+04	L	17	LF
17+92	17+92	R	8	LF
18+04	18+04	L	10	LF
18+06	18+06	R	8	LF
21+26	21+32	R	7	LF
21+40	21+40	R	8	LF
23+21	21+21	R	9	LF
23+30	23+38	R	8	LF
23+13	23+13	L	9	LF
23+32	23+50	L	24	LF
23+72	23+86	R	9	LF
23+88	23+88	R	13	LF
25+80	25+80	R	10	LF
25+84	25+92	R	8	LF
26+21	26+36	R	28	LF
27+18	27+18	L	9	LF
27+34	27+34	L	9	LF
28+05	25+05	L	7	LF
28+16	28+27	L	12	LF
28+23	28+23	R	10	LF
28+30	28+39	R	10	LF
30+42	30+42	R	10	LF



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30+47	30+55	R	8	LF
30+47	30+61	L	18	LF
30+81	30+88	R	7	LF
30+98	30+98	R	10	LF
32+98	32+98	L	10	LF
33+00	33+12	L	22	LF
33+33	33+33	L	8	LF
33+42	33+50	L	9	LF
36+17	36+17	R	10	LF
36+33	36+33	R	9	LF
36+57	36+98	L	57	LF
36+68	36+68	R	6	LF
36+73	36+73	L	10	LF
36+82	36+82	R	10	LF
37+04	37+04	R	10	LF
37+13	37+17	R	5	LF
37+44	37+53	R	18	LF
37+62	37+62	R	10	LF
38+70	38+70	R	8	LF
38+83	38+83	R	12	LF
40+70	40+70	L	12	LF
40+76	40+87	L	11	LF
41+36	41+44	L	9	LF
41+52	41+52	L	10	LF
42+17	42+17	L	7	LF
42+27	42+27	L	8	LF
42+57	42+63	L	7	LF
42+74	42+74	R	12	LF
42+86	42+86	R	12	LF
42+86	42+86	L	11	LF
43+49	43+49	L	10	LF
43+89	43+89	L	10	LF
44+37	44+46	R	9	LF
44+55	44+55	R	13	LF
44+60	44+68	L	8	LF
44+79	44+79	L	13	LF
46+44	46+44	R	14	LF
46+44	46+44	L	14	LF
46+48	46+56	L	9	LF
46+49	46+59	R	10	LF
46+82	46+89	L	7	LF
47+20	47+20	L	13	LF
47+84	47+95	L	23	LF
48+09	48+09	R	10	LF
48+25	48+25	R	6	LF
48+98	48+98	R	13	LF
49+04	49+12	R	9	LF



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Broad Street Improvements
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49+55	49+64	L	22	LF
51+44	51+44	R	11	LF
51+50	51+59	R	10	LF
52+27	52+39	L	25	LF
54+31	54+48	R	36	LF
54+32	54+47	L	27	LF
54+72	54+83	L	23	LF
56+39	56+39	R	12	LF
56+42	56+51	R	10	LF
56+85	56+95	R	22	LF
57+34	57+41	L	7	LF
57+46	57+46	L	13	LF
58+02	58+02	L	12	LF
58+12	58+12	L	12	LF
59+07	59+17	R	23	LF
60+72	60+81	L	21	LF
61+74	61+83	R	21	LF
62+16	62+30	R	23	LF
62+53	62+53	L	13	LF
62+62	62+69	L	9	LF
65+16	65+23	L	9	LF
65+26	65+26	L	13	LF
67+14	67+14	R	13	LF
67+15	67+22	R	7	LF
67+61	67+69	R	9	LF
67+75	67+75	R	11	LF
67+98	67+98	L	13	LF
68+03	68+11	L	9	LF
68+40	68+65	R	42	LF
70+23	70+28	R	6	LF
70+52	70+52	R	13	LF
71+64	71+84	L	38	LF
71+68	71+68	R	13	LF
71+92	71+92	R	8	LF
72+23	72+33	L	11	LF
72+36	72+36	L	13	LF
72+47	72+47	R	13	LF
72+49	72+58	R	10	LF
72+99	72+99	L	12	LF
73+09	73+09	L	12	LF
74+89	74+95	L	8	LF
74+97	74+97	L	13	LF
75+60	75+69	R	10	LF
75+76	75+76	R	9	LF
77+81	77+90	R	10	LF
77+82	77+82	R	13	LF
77+88	77+88	L	12	LF



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Resurfacing Advertising

78+00	78+00	L	12	LF
78+25	78+40	R	32	LF
78+43	78+43	L	11	LF
78+85	78+85	L	11	LF
81+83	81+83	R	12	LF
83+10	83+10	L	13	LF
83+36	83+36	L	13	LF
83+39	83+39	R	14	LF
83+45	83+52	R	8	LF
83+82	83+89	R	8	LF
83+92	83+92	R	13	LF
84+62	84+62	R	13	LF
84+67	84+76	R	10	LF
85+04	85+13	R	9	LF
85+17	85+17	R	13	LF
86+72	86+73	L	6	LF
86+78	86+78	R	13	LF
86+85	86+96	R	9	LF
86+89	86+98	L	10	LF
89+36	89+36	R	14	
89+62	89+62	R	15	LF
91+11	91+22	L	22	LF
93+16	93+16	L	12	LF
93+21	93+30	L	10	LF
93+55	93+62	L	7	LF
93+67	93+67	L	12	LF
94+13	94+13	L	6	LF
94+42	94+42	L	7	LF
95+05	95+34	R	45	LF
95+16	95+16	L	13	LF
95+47	95+49	L	4	LF

Total = 2003 LF



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Broad Street Improvements
Resurfacing Advertising

935.0400		REMOVE BITUMINOUS PAVEMENT BY MICROMILLING					SY	
Start Station	End Station	L/R	Area (SF)	SY	=	Area	SY	
11+08	87+29	M	465060 /	9	=	51674	SY	
89+22	95+95	M	39290 /	9	=	4366	SY	
						SAY	56040	SY



Project No: Y20645.11

Designed by: NRW

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Date: 7/8/2021

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Broad Street Improvements
Resurfacing Advertising

936.0100

MOBILIZATION AND DEMOBILIZATION

LS

Quantity

1 LS

Total = 1 LS



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

937.0200	MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION	LS
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Quantity

1 LS

Total = 1 LS



Project No: Y20645.11

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Broad Street Improvements
Resurfacing Advertising

942.0200

48.1.0

DETECTABLE WARNING PANEL STANDARD

SF

Station	L/R	Panel Length (FT)	Ramp Width (FT)	Area (SF)	
11+18	L	2	X 4	= 8	SF
11+53	L	2	X 4	= 8	SF
11+67	L	2	X 4	= 8	SF
17+21	R	2	X 4	= 8	SF
17+31	L	2	X 4	= 8	SF
17+67	L	2	X 4	= 8	SF
17+95	L	2	X 4	= 8	SF
17+99	R	2	X 4	= 8	SF
21+29	R	2	X 4	= 8	SF
22+38	L	2	X 4	= 8	SF
23+37	L	2	X 4	= 8	SF
23+37	R	2	X 4	= 8	SF
23+77	R	2	X 4	= 8	SF
25+90	R	2	X 4	= 8	SF
26+22	R	2	X 4	= 8	SF
28+24	L	2	X 5	= 10	SF
28+37	R	2	X 5	= 10	SF
30+53	L	2	X 5	= 10	SF
30+56	R	2	X 4	= 8	SF
30+84	R	2	X 5	= 10	SF
33+04	L	2	X 4	= 8	SF
33+46	L	2	X 4	= 8	SF
36+25	R	2	X 4	= 8	SF
36+61	L	2	X 5	= 10	SF
36+75	R	2	X 4	= 8	SF
37+20	R	2	X 5	= 10	SF
37+49	R	2	X 4	= 8	SF
38+77	R	2	X 4	= 8	SF
40+87	L	2	X 4	= 8	SF
41+42	L	2	X 4	= 8	SF
42+32	L	2	X 4	= 8	SF
42+60	L	2	X 4	= 8	SF
42+79	L	2	X 4	= 8	SF
42+79	R	2	X 4	= 8	SF
44+39	R	2	X 4	= 8	SF

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44+64	L	2	X	4	=	8	SF
46+55	L	2	X	4	=	8	SF
46+55	R	2	X	4	=	8	SF
46+85	L	2	X	9	=	18	SF
47+94	L	2	X	4	=	8	SF
48+15	R	2	X	4	=	8	SF
49+09	R	2	X	4	=	8	SF
49+63	L	2	X	4	=	8	SF
51+56	R	2	X	4	=	8	SF
52+29	L	2	X	4	=	8	SF
54+34	R	2	X	4	=	8	SF
54+45	L	2	X	4	=	8	SF
54+71	L	2	X	4	=	8	SF
56+50	R	2	X	4	=	8	SF
56+88	R	2	X	4	=	8	SF
57+35	L	2	X	4	=	8	SF
59+16	R	2	X	4	=	8	SF
60+72	L	2	X	4	=	8	SF
61+82	R	2	X	4	=	8	SF
62+19	R	2	X	4	=	8	SF
62+64	L	2	X	4	=	8	SF
65+14	L	2	X	4	=	8	SF
67+27	R	2	X	4	=	8	SF
67+63	R	2	X	4	=	8	SF
68+08	L	2	X	4	=	8	SF
68+52	R	2	X	4	=	8	SF
70+30	R	2	X	4	=	8	SF
71+77	R	2	X	4	=	8	SF
71+80	L	2	X	4	=	8	SF
72+20	L	2	X	4	=	8	SF
72+60	R	2	X	4	=	8	SF
73+04	L	2	X	4	=	8	SF
74+85	L	2	X	4	=	8	SF
75+63	R	2	X	4	=	8	SF
77+93	R	2	X	4	=	8	SF
77+94	L	2	X	4	=	8	SF
78+30	R	2	X	4	=	8	SF
81+75	R	2	X	4	=	8	SF
83+54	R	2	X	4	=	8	SF
83+82	R	2	X	4	=	8	SF
84+75	R	2	X	4	=	8	SF
85+09	R	2	X	4	=	8	SF
86+93	R	2	X	4	=	8	SF
86+96	L	2	X	5	=	10	SF
91+12	L	2	X	4	=	8	SF



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Broad Street Improvements
Resurfacing Advertising

93+29	L	2	X	4	=	8	SF	
93+56	L	2	X	4	=	8	SF	
94+29	L	2	X	4	=	8	SF	
95+00	R	2	X	4	=	8	SF	
95+20	L	2	X	4	=	8	SF	
95+24	R	2	X	4	=	8	SF	
95+37	L	2	X	4	=	8	SF	
						Total =	720	SF



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Broad Street Improvements
Resurfacing Advertising

L01.0102	LS	LOAM BORROW - 4" DEEP		SY
Station	Side	Quantity		
54+75	L	1		SY
94+98	R	2		SY
		Total =	<u>3</u>	SY



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Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

L02.0102	LS	RESIDENTIAL SEEDING (TYPE 2)		SY
	Station	Side	Quantity	
	54+75	L	1	SY
	94+98	R	2	SY
			Total =	
			<u>3</u>	SY



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Designed by: NRW

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Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

L11.0102

51.1.0

TREE PLANT PROTECTION DEVICE

EA

Station	Side	Quantity	
17+25	L	1	EA
36+65	R	1	EA
36+78	L	1	EA
37+00	R	1	EA
38+67	R	1	EA
43+72	L	1	EA
59+00	R	1	EA
59+07	R	1	EA
94+16	L	1	EA
94+39	L	1	EA
95+48	L	1	EA
Contingency for trees adjacent to the roadway		50	EA
		Total =	
		61	EA



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Date: 7/8/2021

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Broad Street Improvements
Resurfacing Advertising

L15.9902	MUL	PINE BARK MULCH FOR TREE PIT (3" DEPTH)		SY
	Station	Side	Quantity	
	94+28	L	5	SY
			Total = 5	SY



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Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

T04.5302	(3d)	14 AWG 2 CONDUCTOR TWISTED SHIELDED CABLE	LF
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Traffic Signal Plan No. 4		40	LF
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Total =	<hr/>	40	LF
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Designed by: NRW

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Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

T04.5303

3a

14 AWG 3 CONDUCTOR CABLE

LF

Traffic Signal Plan No. 4	15	LF
Traffic Signal Plan No. 6	70	LF
Traffic Signal Plan No. 11	15	LF
Total =	100	LF



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Broad Street Improvements
Resurfacing Advertising

T04.5305

3b

14 AWG 5 CONDUCTOR CABLE

LF

Traffic Signal Plan No. 2	15	LF
Traffic Signal Plan No. 4	70	LF
Traffic Signal Plan No. 11	15	LF
Total =	100	LF



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Broad Street Improvements
Resurfacing Advertising

T05.0200 18.2.1 PRECAST TYPE H HEAVY DUTY HANDHOLE STANDARD 18.2.1 EA

Station	L/R	Quantity	
41+46	L	1	EA
Total =			1 EA



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Checked by: DBC

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Broad Street Improvements
Resurfacing Advertising

T05.0400

1a

BREAK INTO EXISTING HANDHOLE

EA

Traffic Signal Plan No. 1

3

EA

Traffic Signal Plan No. 4

2

EA

Total = 5 EA



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Designed by: NRW

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Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

T05.1030 **AHH** **ADJUST HANDHOLE TO GRADE** **EA**

Station	L/R	Quantity	
11+52	L	1	EA
17+26	L	1	EA
21+28	R	1	EA
23+25	R	1	EA
23+32	R	1	EA
23+88	R	1	EA
30+49	R	1	EA
30+61	L	2	EA
33+36	L	1	EA
40+75	L	1	EA
40+84	L	1	EA
40+85	L	1	EA
41+42	L	1	EA
41+46	L	1	EA
46+51	L	1	EA
46+55	R	1	EA
46+99	L	1	EA
56+45	R	1	EA
56+49	R	1	EA
57+40	L	1	EA
65+16	L	1	EA
67+18	R	1	EA
67+67	R	1	EA
68+00	L	1	EA
77+88	R	1	EA
78+33	R	1	EA
84+69	R	1	EA
95+11	R	1	EA
95+17	R	1	EA
95+15	L	1	EA
		Total =	EA
		31	



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Broad Street Improvements
Resurfacing Advertising

T06.5130 **4c** **3 INCH 40 SCHEDULE POLYVINYL CHLORIDE PLASTIC CONDUIT -**
UNDERGROUND **LF**

Traffic Signal Plan No. 2	10	LF
Traffic Signal Plan No. 4	25	LF
Traffic Signal Plan No. 11	10	LF
Total =	45	LF



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Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

T11.9901	APP	ADJUST PEDESTAL POLE TO GRADE	EA
Station	L/R		Quantity
30+57	L		1 EA
		Total =	<u>1</u> EA



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Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

T11.9902	RRPP	REMOVE & RELOCATE PEDESTAL POLE	EA
From	To		
23+30 L	23+25 L	1	EA
94+30 L	94+25 L	1	EA
		Total=	2



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Broad Street Improvements
Resurfacing Advertising

T13.1000	3	TRAFFIC DETECTORS-LOOP, STANDARD 19.6.0	LF
Traffic Signal Plan No. 1		424	LF
Traffic Signal Plan No. 4		234	LF
		Total =	LF
		<u>658</u>	



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Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

T13.9901	RPB	REMOVE & RELOCATE PEDESTRIAN PUSHBUTTON ON POLE	EA
Station	L/R	Quantity	
77+80	R	1	EA
		Total =	1 EA



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Broad Street Improvements
Resurfacing Advertising

T13.9902	APB	ADJUST PEDESTRIAN PUSHBUTTON VERTICALLY ON POLE	EA
Station	L/R	Quantity	
30+45	R	2	EA
46+90	L	2	EA
		Total =	EA
		<u>4</u>	



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Broad Street Improvements
Resurfacing Advertising

T13.9903	BPP	EXTENSION BRACKET FOR PEDESTRIAN PUSHBUTTON	EA
Station	L/R	Quantity	
46+90	L	2	EA
		Total =	2 EA



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Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

T15.0100 **DIRECTIONAL REGULATORY AND WARNING SIGNS** **SF**

STA	MUTCD ID.	Quantity	Dimensions			Conversion (IN ² /FT ²)	Area		
				IN.	IN.				
54+33	R1-1	1	X	30	30	/	144	6.25	SF
70+30	R1-1	1	X	30	30	/	144	6.25	SF
86+90	R1-1	1	X	30	30	/	144	6.25	SF
86+91	SP-1L	1	X	12	18	/	144	1.50	SF
90+67	SP-1R	1	X	12	18	/	144	1.50	SF
Total =							22		SF



Project No: Y20645.11

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Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

T15.2000 **PARKING SIGNS** **SF**

STA	MUTCD ID.	Quantity	Dimensions			Conversion (IN ² /FT ²)	Area		
				IN.	IN.				
37+15	R7-1aL	1	X	12	18	/	144	1.50	SF
							Total =	2	SF



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Broad Street Improvements
Resurfacing Advertising

T20.0706	6 INCH WHITE WATERBORNE PAINT PAVEMENT MARKINGS	LF
		Length (LF)
	Temporary 6 Inch White Markings (After Milling)	17000 LF
	Temporary 6 Inch White Markings (After Paving)	22000 LF
	Total=	39000 LF



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Broad Street Improvements
Resurfacing Advertising

T20.0712	12 INCH WHITE WATERBORNE PAINT PAVEMENT MARKINGS	LF
		Length (LF)
	Temporary 12 Inch White Markings (After Paving)	2400 LF
	Total=	2400 LF



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Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

T20.0904	4 INCH YELLOW WATERBORNE PAINT PAVEMENT MARKINGS	LF
		Length (LF)
Temporary 4 Inch Yellow Markings (After Milling)	17000	LF
Temporary 4 Inch Yellow Markings (After Paving)	15400	LF
	Total=	32400



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Broad Street Improvements
Resurfacing Advertising

T20.2406 **6W** 6 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS LF

		Length (LF)		
6W	Lane Lines			
	Project Wide	65	65	LF
			Total=	
			<u>65</u>	LF



Project No: Y20645.11

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Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

T20.2412	12W	12 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS	LF
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	Length (LF)		
12W		160	LF
S&S Plan No. 1	14		
S&S Plan No. 2	112		
S&S Plan No. 13	16		
S&S Plan No. 14	18		
		Total=	LF
		<u>160</u>	

Project No: Y20645.11

Designed by: NRW

Checked by: DBC

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Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

T20.2424 **CW** **24 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS** **LF**

	Length (LF)		
CW		972	LF
Resurfacing Plan No. 1	90		
Resurfacing Plan No. 2	176		
Resurfacing Plan No. 5	110		
Resurfacing Plan No. 6	130		
Resurfacing Plan No. 13	70		
Resurfacing Plan No. 14	396		
		Total= <u>972</u>	LF



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

T20.2804	4DY	4 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS			LF
		Length (LF)			
4DY	Double Yellow	46	LF	46	LF
	S&S Plan No. 2	46			
				Total=	
				46	LF



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

T20.3416 **SUPM** EPOXY RESIN PAVEMENT MARKING - HELMETED BICYCLIST
SYMBOL WITH ARROW EA

Station	L/R	Quantity	
17+47	L	1	EA
		Total =	1 EA



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

T20.9901	BLPM	GREEN FRICTION HIGH VISIBILITY SURFACE			SF
	Station Range	L/R	Area		
	20+14 20+53	L	360	SF	
			Total =	360 SF	



Project No: Y20645.11

Designed by: NRW

Checked by: DBC

Date: 7/8/2021

Date: 7/8/2021

Broad Street Improvements
Resurfacing Advertising

T20.9905		EPOXY RESIN PAVEMENT MARKING - BICYCLE SYMBOL		EA	
Station	L/R			Quantity	
20+47	L			1	EA
				Total =	<u>1</u> EA

APPENDIX F: RIDOT REQUIRED FORMS

**CERTIFICATION REGARDING DEBARMENT, SUSPENSION, AND OTHER
RESPONSIBILITY MATTERS--PRIMARY COVERED TRANSACTIONS**

Instructions For Certification

1. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.
2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such person from participation in this transaction.
3. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.
4. The prospective primary participant shall provide immediate written notice to the department or agency to which this proposal is submitted if at any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
5. The terms covered transaction, debarred, suspended, ineligible, lower tier covered transaction, participant, person, primary covered transaction, principal, proposal, and voluntarily excluded, as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. You may contact the department or agency to which this proposal is being submitted for assistance in obtaining a copy of those regulations.
6. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is proposed for debarment under 48 CFR part 9, subpart 9.4, debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

7. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled ``Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion- Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
8. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not proposed for debarment under 48 CFR part 9, subpart 9.4, debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the List of Parties Excluded from Federal Procurement and Nonprocurement Programs.
9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
10. Except for transactions authorized under paragraph 6 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is proposed for debarment under 48 CFR part 9, subpart 9.4, suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

**CERTIFICATION REGARDING DEBARMENT, SUSPENSION, AND OTHER
RESPONSIBILITY MATTERS--PRIMARY COVERED TRANSACTIONS**

- (1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:
- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded by any Federal department or agency;
 - (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification;
 - (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- (2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Signature/Authorized Certifying Official

Typed Name and Title

Applicant/Organization

Date Signed

Project Title: _____

City or Town: _____

Revised: 10/2012

ANTI-COLLUSION CERTIFICATE FOR CONTRACT AND FORCE ACCOUNT
[Unsworn Declaration]

Title 23, United States Code, Section 112(c), requires, as a condition precedent to approval by the Director of Public Roads of the contract for this work, that there be filed an unsworn declaration executed by, on behalf of, the person, firm, association, or corporation submitting the bid certifying that such person, firm, association, or corporation has not either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action, in restraint of free competitive bidding in connection with the submitted bid. This unsworn statement shall be in the form of a declaration executed under penalty of perjury under the laws of the United States. The person, firm, association, or corporation submitting the bid [under 23 U.S.C.U2(c)] has the option to sign either:

- the sworn affidavit executed and sworn to by the bidder before a person who is authorized by the laws of the State to administer oaths; or
- the unsworn declaration executed under penalty of perjury under the laws of the United States [as allowed by 28 U.S.C. 1746].

A bidder will not be considered for award of contract under this invitation for bids unless such bidder completes either the unsworn declaration prescribed below or the sworn affidavit (as stated on the previous page).

PLEASE NOTE: CONTRACTOR TO COMPLETE ONLY ONE (1) CERTIFICATION STATEMENT.
DO NOT SIGN BOTH STATEMENTS.

To the:

State of _____

County of _____

I, _____ (name of party signing declaration) _____ (title), under penalty of perjury under the laws of the United States, do depose and say:

On behalf of _ (name of Contractor), of that said Contractor has not, either directly or indirectly, entered into any agreement, participated in any collusion; or otherwise taken any action ill restraint of free competitive bidding in connection with Federal-Aid Project Number _____, County of _____; Town-City _____

Road-Bridge _____

Contractor: _____

Signature: _____

CONFLICTS DISCLOSURE POLICY

To ensure that the Rhode Island Department of Transportation (RIDOT) maintains the continued confidence and trust of the people of Rhode Island in carrying out its mission, prospective vendors must disclose any family (or other personal) relationships, associations or connections that the vendor, its affiliates, or employees, may currently have with any RIDOT employee. A Conflicts Disclosure Statement shall be submitted to RIDOT from the following:

- ❖ Owners;
- ❖ Directors;
- ❖ Principals;
- ❖ Officers, board members, or individuals with corporate authority;
- ❖ If the vendor is a partnership, the applicant's partners;
- ❖ If the vendor is a limited liability company, its members and managers;
- ❖ Employees with decision-making authority, including executive directors, managers or individuals in a similar position with corporate authority; and
- ❖ Shareholders with a controlling interest.

CONFLICTS DISCLOSURE STATEMENT

RE: _____

I, _____ hereby certify as follows:

I am employed as a _____ of _____
[TITLE] [COMPANY]
and to the best of my knowledge:

PLEASE CHECK THE APPROPRIATE BOX:

- I have no family or personal relations currently employed either on a full-time or part-time basis at the Rhode Island Department of Transportation.**
- I do have family or personal relations currently employed at the Rhode Island Department of Transportation. Please list their name(s), title(s), and RIDOT Division(s) (if known):**

NAME	TITLE	RIDOT DIVISION

If necessary, please add any additional names as attachments hereto.

FOR ILLUSTRATIVE PURPOSES, FAMILY RELATIONS SHALL INCLUDE, WHETHER BY BLOOD, ADOPTION OR MARRIAGE, ANY OF THE FOLLOWING RELATIONSHIPS:

Father, Mother, Son, Daughter, Brother, Sister, Grandfather, Grandmother, Grandson, Granddaughter, Father-In-Law, Mother-In-Law, Brother-In-Law, Sister-In-Law, Son-In-Law, Daughter-In-Law, Stepfather, Stepmother, Stepson, Stepdaughter, Stepbrother, Stepsister, Half-Brother Or Half-Sister, Niece, Nephew, And Cousin

❖ *If you are unsure whether a relationship, association, or connection you have may need to be disclosed, please consult with RIDOT's Legal Office at (401) 222-6510.*

SIGNATURE

DATE

By signing this form you: (1) certify that the information contained in this form is complete and accurate to the best of your knowledge; and (2) acknowledge your continuing obligation to complete and submit a new Disclosure form when there is any change in your family or personal relations during the course of this Contract.

This document is used for internal RIDOT purposes only in order to address and avoid any potential conflicts at the inception of the contract process and to avoid any impropriety or the appearance of impropriety during the contract process. Any disclosures made hereto will not prejudice prospective vendors from selection.

Certification for Federal-Aid Construction/Consultant Contracts

IN ACCORDANCE WITH PUBLIC LAW 101-1210 SECTION 319 (DEPARTMENT OF THE INTERIOR AND RELATED AGENCIES) THE PROSPECTIVE PARTICIPANT CERTIFIES, BY SIGNING AND SUBMITTING THIS BID OR PROPOSAL, TO THE BEST OF HIS/HER KNOWLEDGE AND BELIEF, THAT:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such subrecipients shall certify and disclose accordingly.

(R.I.D.O.T. APPENDIX C)

INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to Title 31, U.S.C. Section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. Use the SF-LLL-A Continuation Sheet for additional information if the space on the form is inadequate. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence the outcome of a covered Federal action.
2. Identify the status of the covered Federal action.
3. Identify the appropriate classification of this report. If this is a followup report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered Federal action.
4. Enter the full name, address, city, state and zip code of the reporting entity. Include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.
5. If the organization filing the report in item 4 checks "Subawardee," then enter the full name, address, city, state and zip code of the prime Federal recipient. Include Congressional District, if known.
6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.
8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number, Invitation for Bid (IFB) number, grant announcement number, the contract, grant, or loan award number, the application/proposal control number assigned by the Federal agency). Include prefixes, e.g., "RFP-DE-90-001."
9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.
10.
 - (a) Enter the full name, address, city, state and zip code of the lobbying entity engaged by the reporting entity identified in item 4 to influence the covered Federal action.
 - (b) Enter the full names of the individual(s) performing services, and include full address if different from 10(a). Enter Last Name, First Name, and Middle Initial (MI).
11. Enter the amount of compensation paid or reasonably expected to be paid by the reporting entity (item 4) to the lobbying entity (item 10). Indicate whether the payment has been made (actual) or will be made (planned). Check all boxes that apply. If this is a material change report, enter the cumulative amount of payment made or planned to be made.
12. Check the appropriate box(es). Check all boxes that apply. If payment is made through an in-kind contribution, specify the nature and value of the in-kind payment.
13. Check the appropriate box(es). Check all boxes that apply. If other, specify nature.
14. Provide a specific and detailed description of the services that the lobbyist has performed, or will be expected to perform, and the date(s) of any services rendered. Include all preparatory and related activity, not just time spent in actual contact with Federal officials. Identify the Federal official(s) or employee(s) contacted or the officer(s), employee(s), or Member(s) of Congress that were contacted.
15. Check whether or not a SF-LLL-A Continuation Sheet(s) is attached.
16. The certifying official shall sign and date the form, print his/her name, title, and telephone number.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (03-48-00-46), Washington, D.C. 20503.

DISCLOSURE OF LOBBYING ACTIVITIES

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352 - 0348-0046
(see reverse for public burden disclosure)

<p>1. Type of Federal Action:</p> <div style="display: flex; align-items: flex-start;"> <input style="width: 30px; height: 30px; margin-right: 10px;" type="checkbox"/> <ul style="list-style-type: none"> a. contract b. grant c. cooperative agreement d. loan e. loan guarantee f. loan insurance </div>	<p>2. Status of Federal Action:</p> <div style="display: flex; align-items: flex-start;"> <input style="width: 30px; height: 30px; margin-right: 10px;" type="checkbox"/> <ul style="list-style-type: none"> a. bid/offer/application b. initial award c. post-award </div>	<p>3. Report Type:</p> <div style="display: flex; align-items: flex-start;"> <input style="width: 30px; height: 30px; margin-right: 10px;" type="checkbox"/> <ul style="list-style-type: none"> a. initial filing b. material change </div> <p>For Material Change Only: year _____ quarter _____ date of last report _____</p>
<p>4. Name and Address of Report Entity:</p> <p><input checked="" type="checkbox"/> Prime <input type="checkbox"/> Subawardee</p> <p style="padding-left: 40px;">Tier ____, if known:</p> <p>Congressional District, if known:</p>	<p>5. If Reporting Entity in No. 4 is Subawardee, Enter Name and Address of Prime:</p> <p>Congressional District, if known:</p>	
<p>6. Federal Department Agency:</p>	<p>7. Federal Program Name/Description:</p> <p>CFDA Number, if applicable: _____</p>	
<p>8. Federal Action Number, if known:</p>	<p>9. Award Amount, if known:</p> <p>\$ _____</p>	
<p>10. a. Name and Address of Lobbying Entity:</p> <p>(if individual, last name, first name, mi):</p>	<p>10. b. Individuals Performing Services (including address if different from No. 10a)</p> <p>(last name, first name, mi):</p>	
<p>11. Amount of Payment (check all that apply)</p> <p>\$ _____ <input type="checkbox"/> actual <input type="checkbox"/> planned</p>	<p>13. Type of Payment (check all that apply):</p> <ul style="list-style-type: none"> <input type="checkbox"/> a. retainer <input type="checkbox"/> b. one-time fee <input type="checkbox"/> c. commission <input type="checkbox"/> d. contingent fee <input type="checkbox"/> e. deferred <input type="checkbox"/> f. other; specify: _____ 	
<p>12. Form of Payment (check all that apply):</p> <ul style="list-style-type: none"> <input type="checkbox"/> a. cash <input type="checkbox"/> b. in-kind; specify: nature _____ value _____ 		
<p>14. Brief Description of Services Performed or to be Performed and Date(s) of Service, including officer(s), employee(s), or Member(s) contracted, for Payment indicated in Item 11 (Attach Continuation Sheet(s) SF-LLL-A, if necessary):</p>		
<p>15. Continuation Sheet(s) SF-LLL-A attached: <input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>		
<p>16. Information requested through this form is authorized by title 31 U.S.C. section 1352. this disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.</p>	<p>Signature: _____</p> <p>Print Name: _____</p> <p>Title: _____</p> <p>Telephone No: _____ Date: _____</p>	
<p>For Federal use Only:</p>	<p>Authorized for Local Reproduction Standard Form – LLL-A</p>	

DISCLOSURE OF LOBBYING ACTIVITIES

CONTINUATION SHEET

Reporting Entity: _____ Page _____ of _____

BID CONDITIONS

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL OPPORTUNITY
(Executive Order 11246)**

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications set forth herein.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area, are as follows:

Timetables	Goals for Minority Participation for Each Trade	Goals for Female Participation in Each Trade
	3.0% R.I. Except Newport County	6.9%
	3.1% Newport County	6.9%

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or Federally assisted) performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the Contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to met the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs through the Area Director, OFCCP, 169 Weybosset Street, Providence, Rhode Island 02903, within 10 working days of award of any construction subcontract in excess of \$10,000.00 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the Subcontractor; employer identification number; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the contract is to be performed.
4. As used in this Notice, and in the contract resulting from this Solicitation, the "covered area" is the State of Rhode Island.

**STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY
CONSTRUCTION CONTRACT SPECIFICATIONS
(Executive Order 11246)**

1. As used in these specifications:
 - (a) "Covered area" means the geographical area described in the solicitation from which this contract resulted.
 - (b) "Director" means Director, Office of Federal Contract Compliance Programs United States Department of Labor, or any person to whom the Director delegates authority.
 - (c) "Employer identification number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.
 - (d) "Minority" includes:
 - (i) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
 - (ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race);
 - (iii) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
 - (iv) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
2. Whenever the Contractor, or any Subcontractor at any tier subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000.00 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.
3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractors toward a goal in a approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.
4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7a through p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered Construction Contractors performing construction work in geographical areas where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical

area where the work is being performed. Goals are published periodically in the Federal Register in notice form, and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.

5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.
6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability to employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.
7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:
 - (a) Ensure and maintain a working environment free of harassment, intimidation and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all on site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
 - (b) Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organization responses.
 - (c) Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.
 - (d) Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
 - (e) Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources complied under 7b above.
 - (f) Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards

accessible to all employees at each location where construction work is performed.

- (g) Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on site supervisory personnel such as Superintendents, Supervisors, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
 - (h) Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
 - (i) Direct its recruitment efforts, both oral and written, to minority female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection procedures.
 - (j) Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.
 - (k) Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
 - (l) Conduct, at least annually, an inventory and evaluation of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
 - (m) Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
 - (n) Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
 - (o) Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
 - (p) Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through p). The efforts of a contractor associations, joint contractor union, contractor-community, or other similar group of which the Contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7a through p of these Specifications provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female work force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of

actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.

9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and nonminority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though a Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).
10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.
11. The Contractor shall not enter into any subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
13. The Contractor, in fulfilling its obligations under these specifications shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation, if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, Contractors shall not be required to maintain separate records.
15. Nothing herein provided shall be construed as a limitation upon application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program.).
 - (a) A Form 257, Monthly Employment Utilization Report, is to be completed by both Contractor and Subcontractors, and signed by the designated EEO Officer or an authorized representative of the prime or subcontractor. The reports are to be submitted by the 5th of each month during the term of the contract. The Contractor shall submit an aggregate Form 257 showing its entire work force, minority work force, and female work force (in work hours), on all construction work (Federal and non-federally assisted) in the covered area. The Contractor shall collect and submit reports for each Subcontractor's aggregate work force, providing the same information as above.
 - (b) The Contractor shall submit a Form PR-1391, Federal-Aid Highway Construction Contractors' Annual EEO Report, to be completed by the Contractor and each Subcontractor for every month of July, during which work was performed and submitted to the State. **A separate report is to be completed for each Contractor and subcontractor holding contracts or subcontracts exceeding \$10,000.00, except where specified.** The employment data entered should reflect the work force on board during all or any part of

the last payroll period preceding the end of the month of July.

NOTE: Include the R.I. Contract Number in the upper right hand corner of the form.

- (c) The Contractor shall submit a Form EEO-10, Federal-Aid Highway Construction Contractors' Semiannual Training Report, to be completed by the Contractor semiannually for each individual employed on this contract (including any subcontractors under it who have provided training during the reporting period under the training special provision). This report is to be submitted by the 20th of the month following the reporting period (July 20 and January 20). The original of this report is to be furnished to the trainee, and two (2) copies submitted to the State.

These reports are required by the Public Laws of Rhode Island (1960), Chapters 85, 96, & 88; 23 U.S.C., 140(a); 23 CFR, Part 23; and Executive Order 11246.



**USDOT Standard Title VI/Nondiscrimination
Assurances for Contractors
DOT Order 1050.2A**

I, _____, _____, a duly
authorized representative of _____
do hereby certify that the organization affirmatively agrees to the provisions set forth by *U.S. DOT
Order 1050.2A, DOT Standard Title VI Assurances and Non-Discrimination Provisions (April 11, 2013)*

APPENDIX A

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the “contractor”) agrees as follows:

- 1. Compliance with Regulations:** The contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, Federal Highway Administration, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
- 2. Non-discrimination:** The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.
- 3. Solicitations for Subcontracts, Including Procurements of Materials and Equipment:** In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor’s obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin.

4. **Information and Reports:** The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the Federal Highway Administration to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the Recipient or the Federal Highway Administration, as appropriate, and will set forth what efforts it has made to obtain the information.

5. **Sanctions for Noncompliance:** In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:
 - a. withholding payments to the contractor under the contract until the contractor complies; and/or
 - b. cancelling, terminating, or suspending a contract, in whole or in part.

6. **Incorporation of Provisions:** The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the Recipient or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

APPENDIX E

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

Pertinent Non-Discrimination Authorities:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21;
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 *et seq.*), (prohibits discrimination on

- the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq.*), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq.*), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms “programs or activities” to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 -- 12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration’s Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 *et seq.*).

Last Update: November 2017



**State of Rhode Island
Office of Diversity, Equity and Opportunity (ODEO)
Minority Business Enterprise Compliance Office
Minority Business Enterprise Utilization Plan**

Company Name: _____

Representative's Name who administers MBE Program: _____

Street Address: _____

City, State, Zip: _____ Telephone: _____

Email: _____ Project Location: _____

Bid or Project #: _____ Date Bid Opened: _____

Description of Work: _____

Contract Value: _____ MBE % Assigned: _____

Total # of All Subcontractors/Suppliers used: _____ # of MBE Subcontractors/Suppliers used: _____

List All Subcontractors/Suppliers/Consultants/Independent Contractors – Total Dollar Amounts – Scope of Work:

Subcontractor / Supplier	Dollar Award	Scope/Description of Work	RI Certified M/WBE Yes/No

Please note that all MBE/WBE firms must be certified by the RI MBE Compliance Office, and that MBE/WBE firms must self-perform 100% of the work with their own forces or subcontract to another RI certified MBE/WBE in order to receive participation credit. Vendors may count 60% of expenditures for materials and supplies obtained from an MBE certified as a regular dealer/supplier, and 100% of such expenditures obtained from an MBE/WBE certified as a manufacturer. For firms certified as a broker, you may receive MBE participation credit only for the fees and commissions charged for the procurement of the good and materials, but not the cost of the materials themselves.

The above referenced contract will not be released until this plan has been approved by the Director of the Department of Administration or its designee.

For assistance and advice in identifying MBE/WBE firms, please call the Minority Business Enterprise Compliance Office at (401) 574-8670. The directory of all certified MBE firms is also located at www.mbe.ri.gov.

Signature of Authorized Agent of Business: _____ Date: _____

Send Completed Form to:
Dorinda Keene, Assistant Administrator - MBE
Office of Diversity, Equity and Opportunity (ODEO)
Minority Business Enterprise Compliance Office
One Capitol Hill, 3rd Floor
Providence, RI 02908
Phone: (401) 574-8670
Dorinda.Keene@doa.ri.gov

Project Title: _____

City / Town: _____

AFFIDAVIT of NON-DISCRIMINATION

State of _____ ss.

County of _____

_____, being first duly sworn, deposes and says that:

(S)he is the of _____ of _____

a corporation organized and existing under the Laws of _____ and the Contractor for the _____

Project No. _____ that (s)he makes this affidavit for and on behalf of said Corporation; that during the period _____, 20__ to _____, 20__, the said corporation has maintained the practices of employment as required by federal, state, and city laws in regards to the hiring of employees for the aforementioned project and that in employment, upgrading, the demotion or transfer, recruitment or recruitment advertising; layoffs or termination, rates of pay or other forms of compensation; and selection for training including apprenticeship, that it has not discriminated against any employee or applicant for employment on the work covered by this contract because of race, religion, color or national origin.

(Signed), _____

(Title)

Subscribed and sworn to before me this

_____ day of _____, 20__

(Signed) _____

(Seal)

(Title) _____

My Commission Expires _____, 20__

CERTIFICATION OF NONDISCRIMINATION IN EQUAL EMPLOYMENT OPPORTUNITY

The bidder represents that he/she _____ has, _____ has not, participated in a previous contract or subcontract to either the equal opportunity clause herein or the clause contracted in Section 202 of the Executive Order 11246; that he/she _____ has, _____ has not, filed with the Joint Reporting Committee, the Director of OFCC, any Federal agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirement of those organizations; and that representations indicating submission of required compliance reports, signed by proposed subcontractors will be obtained prior to subcontract awards.

Company Name

BY: _____

Date

Title

CONTRACT COMPLIANCE REPORT

For Office Use Only	
<input type="checkbox"/>	Compliant
<input type="checkbox"/>	Non-Compliant
<input type="checkbox"/>	Incomplete Data

Solicitation / Bid # _____ Contract # _____

Contract Value: _____

SECTION 1

1. Contractor's Name, Address, Phone, and Email

2. Name & Title of Executive Officer

3. Name, Title, and Email of EEO Officer

4. Project Location & Activity

5. Contract Production Schedule:

- a. Beginning Date: _____
- b. Estimated Completion Date: _____
- c. Anticipated Peak Employment Dates: _____

6. Name, Title, & Email of Project Superintendent

7. DATE LAST REPORT SUBMITTED TO THIS AGENCY: _____

8. Has a collective bargaining agreement or other contract of understanding been made with a labor union(s) which represent the employees?

9. Is the non-discrimination clause included in all union contracts, subcontracts, and other contracts as executed in your State contract? If "YES", submit a copy of these letters / notices.

10. Have all your unions, contractors, and subcontracts covered by these reporting requirements been advised in writing of your non-discrimination requirements? If "YES", submit a copy of these letters / notices.

11. Has a written Affirmative Action Program been established that covers all applicable requirements of 41 CFR Chapter 60 including a program for Disabled and Covered Veterans and persons with disabilities? If "YES", submit a copy.

YES	NO
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

12. Has your company policy been communicated in writing to all officers and employees?
13. Do you explain all educational or formal training programs to employees or prospective employees which allow these persons to participate on an equal basis?
14. Have all recruitment sources, including unions, been notified in writing that all qualified applicants will receive consideration for employment without regard to RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, GENDER IDENTITY OR EXPRESSION, AGE, NATIONAL ORIGIN, VETERAN STATUS OR DISABILITY?
15. Do you maintain segregated facilities (e.g.: restrooms, lunch rooms, recreational areas, etc...) on the basis of RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, GENDER IDENTITY OR EXPRESSION, AGE, NATIONAL ORIGIN, VETERAN STATUS OR DISABILITY?

YES	NO
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

SECTION 2

HIRING INFORMATION AND PROCEDURES

1. Which of the following recruitment sources are used by your company?

<u>CHECK SOURCES USED</u>	<u>PERCENTAGE OF APPLICANTS</u>
<input type="checkbox"/> Word of Mouth	_____
<input type="checkbox"/> State Employment Services	_____
<input type="checkbox"/> Private Employment	_____
<input type="checkbox"/> Schools and Colleges	_____
<input type="checkbox"/> Newspaper Advertisements	_____
<input type="checkbox"/> Walk-ins	_____
<input type="checkbox"/> Referral by Labor Organization	_____
<input type="checkbox"/> Referral by Minority Organization	_____
<input type="checkbox"/> Other: <u>Internet, Radio, Present employees, etc. (Specify)</u>	_____

2. Do all recruitment publications show "An Equal Opportunity Employer"? If "YES", submit a copy.
3. Please attach an explanation of the criteria used for hiring, and a copy of your employment application.
4. Please submit your Equal Opportunity Policy Statement or Affirmative Action Plan.

SECTION 4

1. Company-Wide Employment Statistics (Use pay period ending nearest to the 15th of the previous month).

OCCUPATIONAL CATEGORIES	MALE EMPLOYEES								FEMALE EMPLOYEES								PWD	V	OVER 40 YRS
	TOTAL MALE	B	H	AI AN	A	W	NH OPI	T/ MR	TOTAL FEMALE	B	H	AI AN	A	W	NH OPI	T/ MR			
OFFICIALS / MANAGERS																			
PROFESSIONALS																			
TECHNICIANS																			
SALES WORKERS																			
OFFICE / CLERICAL																			
CRAFTS (SKILLED)																			
OPERATIVES (SKILLED)																			
CRAFTS (UNSKILLED)																			
SERVICE WORKERS																			
TOTAL																			
# OF EMPLOYEES ONE YEAR AGO TO DATE																			

TOTAL EMPLOYEES IN RHODE ISLAND: _____

<u>Legend:</u>		
B - Black	H - Hispanic	AI/AN - American Indian or Alaskan Native
A - Asian	W - White	NH/OPI - Native Hawaiian or Pacific Islander
T/MR - Two or More Races	PWD - Persons with Disabilities	V - Veteran

- Employment figures were obtained from (insert date): _____
- Attach a sheet identifying by sex, race, date of hire, position held, and date of termination of all minorities & females hired since your last bid review or past twelve (12) months.
- The Contractor must notify the ODEO - State Equal Opportunity Office in writing upon completion of this contract.

Signature and Title of Person Completing This Form

Date

Signature of Contract Compliance Officer (ODEO - State Equal Opportunity Office)

Date

SECTION 4 A

1. Name, Address, Email, & Phone Number of Subcontractor	2. Name, Address, Email & Phone Number of Prime
--	---

Subcontractor's Employment Statistics

3. Company-Wide Employment Statistics (Use pay period ending nearest to the 15th of the month preceding that which is due).

OCCUPATIONAL CATEGORIES	MALE EMPLOYEES								FEMALE EMPLOYEES								PWD	V	OVER 40 YRS
	TOTAL MALE	B	H	AI AN	A	W	NH OPI	T/ MR	TOTAL FEMALE	B	H	AI AN	A	W	NH OPI	T/ MR			
OFFICIALS / MANAGERS																			
PROFESSIONALS																			
TECHNICIANS																			
SALES WORKERS																			
OFFICE / CLERICAL																			
CRAFTS (SKILLED)																			
OPERATIVES (SKILLED)																			
CRAFTS (UNSKILLED)																			
SERVICE WORKERS																			
TOTAL																			
# OF EMPLOYEES ONE YEAR AGO TO DATE																			

TOTAL EMPLOYEES IN RHODE ISLAND: _____

Legend:

B - Black H - Hispanic AI/AN - American Indian or Alaskan Native
A - Asian W - White NH/OPI - Native Hawaiian or Pacific Islander
T/MR - Two or More Races PWD - Persons with Disabilities V - Veterans

4. Employment figures were obtained from (insert date): _____
5. Attach a sheet identifying by sex, race, date of hire, position held, and date of termination of all minorities & females hired since your last bid review or past twelve (12) months.

Signature and Title of Person Completing This Form

Date

Signature of Contract Compliance Officer (ODEO - State Equal Opportunity Office)

Date

EQUAL EMPLOYMENT OPPORTUNITY CERTIFICATE OF COMPLIANCE

The undersigned contractor agrees and certifies that it is in compliance with applicable requirements of Federal Executive Order # 11246, as amended - Certification of Non-Segregated Facilities, Rhode Island General Law 28-5.1-10, and other regulations as issued by the State Purchasing Agent as set forth below, or will take steps to comply with such requirements prior to acceptance of any contract from the State of Rhode Island.

Equal Opportunity Clause

- A. The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity or expression, age, national origin, or disability. The contractor will take affirmative action to ensure that applicants for employment and employees are treated equitably, without regard to their race, color, religion, sex, sexual orientation, gender identity or expression, age, national origin, or disability.
- B. The contractor, in all solicitations or advertisements for employees, placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to their race, color, religion, sex, sexual orientation, gender identity or expression, age, national origin, or disability.
- C. The contractor agrees to obtain Compliance Certifications from proposed subcontractors prior to the award of subcontractors exceeding \$ 10,000.00.

Notice to All Contractors

If it should be determined by the Office of Diversity, Equity, and Opportunity / State Equal Opportunity Office that any contractor doing business with the State of Rhode Island is guilty of non-compliance with the provisions of this document, said contractor will be given two written warnings. If said contractor does not comply immediately after the second written notice, the State Equal Opportunity Office will notify the State Purchasing Agent, who shall have the authority to have the contract revoked and all contractual obligations of the State dealing with the contract in question will be null and void.

Signature required prior to award to successful bidder. Failure shall be cause for rejection of bid.

SIGNATURE & TITLE

PRINT NAME

COMPANY

DATE



On-The-Job Training Acknowledgement & Statement of Compliance

Project ID#		
Project's Name		
Contractor's Name		
OJT Goal		

We have reviewed the OJT training requirements (Training Special Provisions) stated in the contract for the above noted project. Based on these requirements we acknowledge the following:

- We are responsible for submitting a *Contractor's Training Proposal* form to the Office of Civil Rights for approval within 10 calendar days of project starting.
 - We must submit a *Trainee Registration Form* to RIDOT Office of Civil Rights, for approval, prior to trainee(s) starting to work on site.
 - We must include approved trainee's job classification in all contract payrolls.
 - We must submit the *Trainee Status Change* form to inform project Resident Engineer and RIDOT OCR of any changes in trainee status within 10 days of event occurring.
 - We must provide *Trainee Weekly Time Sheets* to project RE throughout the entire life of the project.
- We must notify RIDOT project personnel, **daily**, of the presence of trainees at the worksite.
 - We must submit *Monthly OJT Hours* reports to OCR to qualify for training reimbursement.
 - We must provide trainee(s) with a *Certificate of Completion* with the type and amount of training hours when completed.
 - We must abide to corresponding journeyman/trainee ratio.
 - We must provide trainee the skills corresponding to the approved training classification.
 - We must fully abide to contract's Training Special Provision regulating project mentioned above.

Contractor's EEO Officer (Name & Signature)

Date

RIDOT OCR Representative (Name & Signature)

Date

**APPENDIX G:
STATE WORKFORCE REGULATION**



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Labor and Training

Center General Complex

1511 Pontiac Avenue
Cranston, RI 02920-4407

TTY:

Via RI Relay 711

Lincoln D. Chafee
Governor

Charles J. Fogarty
Director

STATE CONTRACT ADDENDUM

RHODE ISLAND DEPARTMENT OF LABOR AND TRAINING

PREVAILING WAGE REQUIREMENTS

(37-13-1 ET SEQ.)

The prevailing wage requirements are generally set forth in RIGL 37-13-1 et seq. These requirements refer to the prevailing rate of pay for regular, holiday, and overtime wages to be paid to each craftsmen, mechanic, teamster, laborer, or other type of worker performing work on public works projects when state or municipal funds exceed one thousand dollars (\$1,000).

All Prevailing Wage Contractors and Subcontractors are required to:

1. Submit to the Awarding Authority a list of the contractor's subcontractors for any part or all of the prevailing wage work in accordance with RIGL § 37-13-4;
2. Pay all prevailing wage employees at least once per week and in accordance with RIGL §37-13-7 (see Appendix B attached);
3. Post the prevailing wage rate scale and the Department of Labor and Training's prevailing wage poster in a prominent and easily accessible place on the work site in accordance with RIGL §37-13-11; posters may be downloaded at www.dlt.ri.gov/pw/Posters.htm .poster/htm or obtained from the Department of Labor and Training, Center General Complex, 1511 Pontiac Avenue, Cranston, Rhode Island;
4. Access the Department of Labor and Training website, at www.dlt.ri.gov on or before July 1st of each year, until such time as the contract is completed, to ascertain the current prevailing wage rates and the amount of payment or contributions for each covered prevailing wage employee and make any necessary adjustments to the covered employee's prevailing wage rates effective July 1st of each year in compliance with RIGL §37-13-8;
5. Attach a copy of this CONTRACT ADDENDUM and its attachments as a binding obligation to any and all contracts between the contractor and any

An Equal Opportunity Employer/Program./Auxiliary aids and services are available upon request to individuals with disabilities.

TTY via RI Relay 711



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Labor and Training

Center General Complex
1511 Pontiac Avenue
Cranston, RI 02920-4407

Telephone; (401) 462-8000
TTY; Via RI Relay 711

Lincoln D. Chafee
Governor
Charles J. Fogarty
Director

subcontractors and their assignees for prevailing wage work performed pursuant to this contract;

6. Provide for the payment of overtime for prevailing wage employees who work in excess of eight (8) hours in any one day or forty (40) hours in any one week as provided by RIGL §37-13-10;
7. Maintain accurate prevailing wage employee payroll records on a Rhode Island Certified Weekly Payroll form available for download at www.dlt.ri.gov/pw.forms/htm, as required by RIGL §37-13-13, and make those records available to the Department of Labor and Training upon request;
8. Furnish the fully executed RI Certified Weekly Payroll Form to the awarding authority on a monthly basis for all work completed in the preceding month.
9. For general or primary contracts one million dollars (\$1,000,000) or more, shall maintain on the work site a fully executed RI Certified Prevailing Wage Daily Log listing the contractor's employees employed each day on the public works site; the RI Certified Prevailing Wage Daily Log shall be available for inspection on the public works site at all times; this rule shall not apply to road, highway, or bridge public works projects. Where applicable, furnish both the Rhode Island Certified Prevailing Wage Daily Log together with the Rhode Island Weekly Certified Payroll to the awarding authority.
10. Assure that all covered prevailing wage employees on construction projects with a total project cost of one hundred thousand dollars (\$100,000) or more has a OSHA ten (10) hour construction safety certification in compliance with RIGL § 37-23-1;
11. Employ apprentices for the performance of the awarded contract when the contract is valued at one million dollars (\$1,000,000) or more, and comply with the apprentice to journey person ratio for each trade approved by the apprenticeship council of the Department of Labor and Training in compliance with RIGL §37-13-3.1;
12. Assure that all prevailing wage employees who perform work which requires a Rhode Island trade license possess the appropriate Rhode Island trade license in compliance with Rhode Island law; and

An Equal Opportunity Employer/Program. / Auxiliary aids and services are available upon request to individuals with disabilities.

TTY via Rf Relay 711



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Labor and Training

Center General Complex
1511 Pontiac Avenue
Cranston, RI 02920-4407

Telephone: (401) 462-8000
TTY: Via RI Relay 711

Lincoln D. Chafee
Governor
Charles J. Fogarty
Director

13. Comply with all applicable provisions of RIGL §37-13-1, et. seq;

Any questions or concerns regarding this CONTRACT ADDENDUM should be addressed to the contractor or subcontractor's attorney. Additional Prevailing Wage information may be obtained from the Department of Labor and Training at www.dlt.ri.gov/pw.

CERTIFICATION

I hereby certify that I have reviewed this CONTRACT ADDENDUM and understand my obligations as stated above.

DRAFT

By: _____

Title: _____

Subscribed and sworn before me this ___ day of _____, 20__.

Notary Public
My commission expires: _____

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APPENDIX A

TITLE 37

Public Property and Works

CHAPTER 37-13

Labor and Payment of Debts by Contractors

SECTION 37-13-5

§37-13-5 Payment for trucking or materials furnished - Withholding of sums due. -A contractor or subcontractor on public works authorized by a proper authority shall pay any obligation or charge for trucking and material which have been furnished for the use of the contractor or subcontractor, in connection with the public works being performed by him or her, within ninety (90) days after the obligation or charge is incurred or the trucking service has been performed or the material has been delivered to the site of the work, whichever is later. When it is brought to the notice of the proper authority in a city or town, or the proper authority in the state having supervision of the contract, that the obligation or charge has not been paid by the contractor or subcontractor, the proper authority may deduct and hold for a period not exceeding sixty (60) days, from sums of money due to the contractor or subcontractor, the equivalent amount of such sums certified by a trucker or materialman creditor as due him or her, as provided in this section, and which the proper authority determines is reasonable for trucking performed or materials furnished for the public works.

APPENDIX B

TITLE 37

Public Property and Works

CHAPTER 37-13

Labor and Payment of Debts by Contractors

SECTION 37-13-7

§ 37-13-7 Specification in contract of amount and frequency of payment of wages.

-(a) Every call for bids for every contract in excess of one thousand dollars (\$1,000), to which the state of Rhode Island or any political subdivision thereof or any public agency or quasi-public agency is a party, for construction, alteration, and/or repair, including painting and decorating, of public buildings or public works of the state of Rhode Island or any political subdivision thereof, or any public agency or quasi-public agency and which requires or involves the employment of employees, shall contain a provision stating the minimum wages to be paid various types of employees which shall be based upon the wages that will be determined by the director of labor and training to be prevailing for the corresponding types of employees employed on projects of a character similar to the contract work in the city, town, village, or other appropriate political subdivision of the state of Rhode Island in which the work is to be performed. Every contract shall contain a stipulation that the contractor or his or her subcontractor shall pay all the employees employed directly upon the site of the work, unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account, the full amounts accrued at time of payment computed at wage rates not less than those stated in the call for bids, regardless of any contractual relationships which may be alleged to exist between the contractor or subcontractor and the employees, and that the scale of wages to be paid shall be posted by the contractor in a prominent and easily accessible place at the site of the work; and the further stipulation that there may be withheld from the contractor so much of the accrued payments as may be considered necessary to pay to the employees employed by the contractor, or any subcontractor on the work, the difference between the rates of wages required by the contract to be paid the employees on the work and the rates of wages received by the employees and not refunded to the contractor, subcontractors, or their agents.

(b) The terms "wages", "scale of wages", "wage rates", "minimum wages", and "prevailing wages" shall include:

- (1) The basic hourly rate of pay; and
- (2) The amount of:

(A) The rate of contribution made by a contractor or subcontractor to a trustee or to a third person pursuant to a fund, plan, or program; and

(B) The rate of costs to the contractor or subcontractor which may be reasonably anticipated in providing benefits to employees pursuant to an enforceable commitment to carry out a financially responsible plan or program which was communicated in writing to the employees affected, for medical or hospital care, pensions on retirement or death, compensation for injuries or illness resulting from occupational activity, or insurance to provide any of the foregoing, for unemployment benefits, life insurance, disability and sickness insurance, or accident insurance, for vacation and holiday pay, for defraying costs of apprenticeship or other similar programs, or for other bona fide fringe benefits, but only where the contractor or subcontractor is not required by other federal, state, or local law to provide any of the benefits; provided, that the obligation of a contractor or subcontractor to make payment in accordance with the prevailing wage determinations of the director of labor and training insofar as this chapter of this title and other acts incorporating this chapter of this title by reference are concerned may be discharged by the making of payments in cash, by the making of contributions of a type referred to in subsection (b)(2), or by the assumption of an enforceable commitment to bear the costs of a plan or program of a type referred to in this subdivision, or any combination thereof, where the aggregate of any payments, contributions, and costs is not less than the rate of pay described in subsection (b)(1) plus the amount referred to in subsection (b)(2).

(c) The term "employees", as used in this section, shall include employees of contractors or subcontractors performing jobs on various types of public works including mechanics, apprentices, teamsters, chauffeurs, and laborers engaged in the transportation of gravel or fill to the site of public works, the removal and/or delivery of gravel or fill or ready-mix concrete, sand, bituminous stone, or asphalt flowable fill from the site of public works, or the transportation or removal of gravel or fill from one location to another on the site of public works, and the employment of the employees shall be subject to the provisions of subsections (a) and (b).

(d) The terms "public agency" and "quasi-public agency" shall include, but not be limited to, the Rhode Island industrial recreational building authority, the Rhode Island economic development corporation, the Rhode Island airport corporation, the Rhode Island industrial facilities corporation, the Rhode Island refunding bond authority, the Rhode Island housing and mortgage finance corporation, the Rhode Island resource recovery corporation, the Rhode Island public transit authority, the Rhode Island student loan authority, the water resources board corporate, the Rhode Island health and education building corporation, the Rhode Island higher education assistance authority, the Rhode Island turnpike and bridge authority, the Narragansett Bay water quality management district commission, Rhode Island telecommunications authority, the convention center authority, the board of governors for higher education, the board of regents for elementary and secondary education, the capital center commission, the housing resources commission, the Quonset Point-Davisville management corporation, the Rhode Island children's crusade for higher education, the Rhode Island depositors economic protection corporation, the Rhode Island lottery commission, the Rhode Island

partnership for science and technology, the Rhode Island public building authority, and the Rhode Island underground storage tank board.

DRAFT

APPENDIX H: PAVEMENT INFORMATION

Broad St. from S. curb of Chestnut St. to
City Line (Omits Bridge over I-95.)

Bituminous Concrete 92,843 Sq. Yds.
14,849 Lin. Ft.

3" sheet asphalt laid on 8" concrete base (crack
control) under State supervision in 1948.
Removed and replaced in 1978 with 3" fine
aggregate asphaltic concrete by J. H. Lynch
& Sons. New 8" concrete base laid from Chestnut
St. to Franklin St. in 1978.

APPENDIX I: RIDOT STANDARD CLAUSES

Code of Federal Regulations

Title 23 - Highways

Volume: 1

Date: 2013-04-01

Original Date: 2013-04-01

Title: Section 635.410 - Buy America requirements.

Context: Title 23 - Highways. CHAPTER I - FEDERAL HIGHWAY ADMINISTRATION, DEPARTMENT OF TRANSPORTATION. SUBCHAPTER G - ENGINEERING AND TRAFFIC OPERATIONS. PART 635 - CONSTRUCTION AND MAINTENANCE. Subpart D - General Material Requirements.

§ 635.410 Buy America requirements.

(a) The provisions of this section shall prevail and be given precedence over any requirements of this subpart which are contrary to this section. However, nothing in this section shall be construed to be contrary to the requirements of § 635.409(a) of this subpart.

(b) No Federal-aid highway construction project is to be authorized for advertisement or otherwise authorized to proceed unless at least one of the following requirements is met:

(1) The project either: (i) Includes no permanently incorporated steel or iron materials, or (ii) if steel or iron materials are to be used, all manufacturing processes, including application of a coating, for these materials must occur in the United States. Coating includes all processes which protect or enhance the value of the material to which the coating is applied.

(2) The State has standard contract provisions that require the use of domestic materials and products, including steel and iron materials, to the same or greater extent as the provisions set forth in this section.

(3) The State elects to include alternate bid provisions for foreign and domestic steel and iron materials which comply with the following requirements. Any procedure for obtaining alternate bids based on furnishing foreign steel and iron materials which is acceptable to the Division Administrator may be used. The contract provisions must (i) require all bidders to submit a bid based on furnishing domestic steel and iron materials, and (ii) clearly state that the contract will be awarded to the bidder who submits the lowest total bid based on furnishing domestic steel and iron materials unless such total bid exceeds the lowest total bid based on furnishing foreign steel and iron materials by more than 25 percent.

(4) When steel and iron materials are used in a project, the requirements of this section do not prevent a minimal use of foreign steel and iron materials, if the cost of such materials used does not exceed one-tenth of one percent (0.1 percent) of the total contract cost or \$2,500, whichever is greater. For purposes of this paragraph, the cost is that shown to be the value of the steel and iron products as they are delivered to the project.

(c)(1) A State may request a waiver of the provisions of this section if;

(i) The application of those provisions would be inconsistent with the public interest; or

(ii) Steel and iron materials/products are not produced in the United States in sufficient and reasonably available quantities which are of a satisfactory quality.

(2) A request for waiver, accompanied by supporting information, must be submitted in writing to the Regional Federal Highway Administrator (RFHWA) through the FHWA Division Administrator. A request must be submitted sufficiently in advance of the need for the waiver in order to allow time for proper review and action on the request. The RFHWA will have approval authority on the request.

(3) Requests for waivers may be made for specific projects, or for certain materials or products in specific geographic areas, or for combinations of both, depending on the circumstances.

(4) The denial of the request by the RFHWA may be appealed by the State to the Federal Highway Administrator (Administrator), whose action on the request shall be considered administratively final.

(5) A request for a waiver which involves nationwide public interest or availability issues or more than one FHWA region may be submitted by the RFHWA to the Administrator for action.

(6) A request for waiver and an appeal from a denial of a request must include facts and justification to support the granting of the waiver. The FHWA response to a request or appeal will be in writing and made available to the

public upon request. Any request for a nationwide waiver and FHWA's action on such a request may be published in the **Federal Register** for public comment.

(7) In determining whether the waivers described in paragraph (c)(1) of this section will be granted, the FHWA will consider all appropriate factors including, but not limited to, cost, administrative burden, and delay that would be imposed if the provision were not waived.

(d) Standard State and Federal-aid contract procedures may be used to assure compliance with the requirements of this section.

[48 FR 53104, Nov. 25, 1983, as amended at 49 FR 18821, May 3, 1984; 58 FR 38975, July 21, 1993]

**REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS**

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar

with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions

of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. (1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program. Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-

Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b.(1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly

rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;

(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is

evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.

2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS
PREFERENCE FOR APPALACHIAN DEVELOPMENT
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS
ROAD CONTRACTS**

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

**APPENDIX J:
STORM WATER POLLUTION PREVENTION PLAN (SWPPP)**



Department of Transportation
Two Capitol Hill
Providence, RI 02903

Office 401-222-2450
Fax 401-222-3905

RIDOT Small-Site SWPPP TEMPLATE Instructions

*For all projects with less than 1.0 acres of disturbance, a **Storm Water Pollution Prevention Plan (SWPPP)** is required to be developed as part of compliance with RIDOT's Stormwater Management Program Plan.*

This document is being provided as an aid in the preparation of a small-site SWPPP. It is a comprehensive list of issues a SWPPP preparer must consider during the development of the document. The items in the template are derived from the General Permit of the Rhode Island Pollutant Discharge Elimination System Storm Water Discharge Associated with Construction Activity (General Permit), the RIDEM RI Model SWPPP Template, and the Environmental Protection Agency's model SWPPP template.

Instructions for SWPPP Preparers:

When converting this model SWPPP into your site-specific SWPPP, please keep in mind the following:

- 1) Items in black should remain in the final site specific SWPPP and do not need to be modified.
- 2) Items highlighted in gray indicate where information must be inserted. Click on the highlighted text and type response – the gray highlighting will be over-written.
- 3) *Items in blue-italics are included to provide guidance to you, the SWPPP preparer, during the development of the site specific SWPPP, these items may be deleted in the final site specific SWPPP document.*
- 4) The control measures in Section 2 and Section 3 are meant to be 'checked', if they are relevant to the specific construction project. *If an item is not relevant, the item may remain unchecked, but an explanation should be provided why that item is not applicable.*
- 5) The RIDOT Small Site SWPPP Inspection Report, Inspection Report Instructions, and Amendment Log should be modified as necessary and included with the SWPPP as attachments.

If there are any questions, please contact the RIDOT Office of Stormwater Management at 401-734-4892.

SMALL-SITE
Stormwater Pollution Prevention Plan

For:

Broad Street Improvements

Broad Street (Elmwood Avenue to Hawthorne Avenue)

Providence, RI 02907

Owner: **City of Providence**
Alex Ellis
444 Westminster Street
Providence, RI 02903
401-680-8400

Operator: TBD

Estimated Project Dates: Start Date: 9/18/2021
Completion Date: 6/30/2022

SWPPP Prepared By: Horsley Witten Group
Jonathan Ford, P.E.
55 Dorrance Street, Suite 200
Providence, RI 02903
401-272-1717

SWPPP Preparation Date: 7/10/2020

OWNER CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Owner Signature:

Date Click or tap to enter a date.

Owner Name: Alex Ellis

Owner Title: Principal Planner

Company Name: City of Providence

OPERATOR CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Operator Signature:

Date Click or tap to enter a date.

Contractor Representative:

Contractor Title:

Contractor Company Name:

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INTRODUCTION

This Small-Site Storm Water Pollution Prevention Plan (SWPPP) has been prepared for the City of Providence for a construction project that has less than one (1) acre of soil disturbance. This document provides general guidance for the installation and maintenance of erosion and sediment controls on small projects.

The purpose of erosion and sedimentation best management practices (BMPs) is to prevent pollutants from leaving the construction site and entering waterways or environmentally sensitive areas during and after construction. This SWPPP has been prepared prior to the initiation of construction activities to address anticipated worksite conditions. The best management practices (BMPs) depicted on the site plan and described in this narrative should be considered the minimum measures required to control erosion, sedimentation, and stormwater runoff at the site. Since construction is a dynamic process with changing site conditions, it is the operator's responsibility to manage the site during the construction phases so as to prevent pollutants from leaving the site. This may require the operator to revise and amend the SWPPP during construction to address varying site and/or weather conditions, such as by adding or realigning erosion or sediment controls.

It is the responsibility of the Resident Engineer to maintain the SWPPP, including all attachments, amendments, and inspection records, at the project field office and to make all records available for inspection by RIDEM during construction.

The Resident Engineer and designated Inspector are required to review the SWPPP and sign the Party Certification pages (Section 8). The prime contractor and all subcontractors involved in earthwork or exterior construction activities are also required to review the SWPPP and sign the certification pages before construction begins.

Any questions regarding the SWPPP, BMPs, inspection requirements, or any other facet of this document may be addressed to the RIDOT Office of Stormwater Management at 401-734-4892.

Please note: Even if practices are correctly installed on a site according to the approved plan, the site is only in compliance when erosion and sedimentation are effectively controlled throughout the entire site.

SECTION 1: SITE DESCRIPTION

1.1 *Project/Site Information*

- Signing and striping, curb ramp construction, sidewalk and curb construction including floating bus stops, traffic signal modifications, and other required related work. Improvements will be to Broad Street between Elmwood Avenue and Hawthorne Avenue.
- Pavement resurfacing of approximately 8,400 linear feet of Broad Street, starting south of Elmwood Avenue and extending to just south of Baker Street. Pavement is being removed down to an existing concrete layer and not to erodible soil.

1.2 *Nature and Sequence of Construction Activity*

- The Contractor will saw cut and strip existing roadway and sidewalks, remove granite curb, sidewalk, and road materials, and construct proposed curb ramps, sidewalk, and floating curbed islands. The Contractor will remove an existing drainage frame and grate to install a new drainage frame and grate. The Contractor will install flexible delineator posts and planters. The Contractor will eradicate existing pavement markings and install proposed pavement and sidewalk markings. The Contractor will remove and relocate signs and install proposed signs. The contractor will repave.

Estimated Project Start Date: 5/17/2021

Estimated Project Completion Date: 7/23/2021

Estimated Number of Months: 4

1.3 *Construction Site Estimates*

The following are estimates of the construction site:

Total Project Area	±10 acres
Construction Site Area to be disturbed	0.1 acres
Percentage impervious area <u>before</u> construction	100 %
Percentage impervious area <u>after</u> construction	100 %

Construction Site Stormwater Pollution Prevention Plan
BROAD STREET IMPROVEMENTS

1.4 Potential Discharges

Environmentally Sensitive Areas	Construction Site Discharges to: (Yes / No)	List discharge points & indicate how determination was made
Waters of the State	No	Combined sewer to NBC system per City/NBC mapping.
Wetlands (Coastal or Upland)	No	
Separate Storm Sewer System	No	
303(d) Impaired Waters	No	
TMDL Waters	No	
Special Resource Protection Waters (SRPWs)	No	
Cold Water Fisheries	No	
Natural Heritage Areas	No	
Historic/Cultural Areas	No	
Permanent Stormwater Structures (swales, outfalls, treatment units, etc.)	No	

1.5 Allowable Non-Storm Water Discharges

RIPDES Construction General Permit – IV.E.1.g

Are there allowable non-stormwater discharges on or near the project area?

Yes No

List of allowable non-stormwater discharges:

- Vehicle & pavement washdown
- Fire hydrant flushing
- Lawn watering

Are there any known or contaminated discharges, including dewatering operations, on or near the project area?

Yes No

If yes, list the discharges and the RIPDES individual permit number(s) or RIPDES Remediation General Permit Authorization number(s) associated with these discharges.

- RIPDES individual permit number:
- RIPDES Remediation General Permit Authorization number:

Construction Site Stormwater Pollution Prevention Plan
BROAD STREET IMPROVEMENTS

1.6 Potential Sources of Pollution

Anticipated on this Project (Y/N)	Operation/ Location	Stormwater Pollutants
Y	Clearing, grading, excavating, and unstabilized areas	Sediment; Trash/Debris
N	Construction Entrance	Sediment
N	Soil Stockpiles	Sediment
Y	Paving operations	Sediment; Trash/Debris
Y	Concrete washout and waste	Heavy metals; pH; Trash/Debris
N	Structure construction/ painting/ cleaning	Nutrients; pH; Trash/Debris; Toxic chemicals
N	Demolition and debris disposal	Sediment; Trash/Debris
N	Dewatering operations	Sediment; Nutrients
N	Drilling and blasting operations	Sediment; pH; Trash/Debris
Y	Material delivery and storage	Sediment; Nutrients; Heavy metals; pH; Pesticides/Herbicides; Oil/Grease; Trash/Debris; Toxic chemicals
N	Material use during building process	Nutrients; heavy metals; pH; pesticides/herbicides; oil/grease; trash/debris; toxic chemicals
Y	Solid waste/ trash/ debris	trash/debris; toxic chemicals
N	Hazardous waste	heavy metals; pH; pesticides/herbicides; oil/grease; toxic chemicals
N	Contaminated spills	Nutrients; heavy metals; pH; pesticides/herbicides; oil/grease; toxic chemicals
N	Sanitary/septic waste	Nutrients; pH; Bacteria/Viruses; toxic chemicals
Y	Vehicle/equipment fueling and maintenance	Oil/Grease; Toxic chemicals; fuel
Y	Vehicle/equipment use and storage	Oil/Grease; Toxic chemicals
N	Landscaping operations	Sediment; Nutrients; Trash/Debris
N	Off-site LUHPPL run-on	Industrial toxins; oil/grease; heavy metals; fuel; salt; hazardous materials
N/A	Other:	

Construction Site Stormwater Pollution Prevention Plan
BROAD STREET IMPROVEMENTS

1.7 Site Plans

TITLE & DATE OF PLAN SET(S): BROAD STREET IMPROVEMENTS, Dated April 2020

- Total area of development
- Total area of soil disturbance
- Areas that will not be disturbed
- The location of all erosion and sediment controls
- Locations of storm drain inlets and outfalls
- The location and name of the receiving waters or separate storm sewer system and the ultimate receiving waters
- Location and name of all waters of the State, including wetlands **n/a**
- Location of environmentally sensitive features/areas to be protected (Section 1.4) **n/a**
- Constraint locations of material storage areas, equipment storage areas, concrete washouts, dumpsters, stockpiles, fueling locations etc. (i.e. locations where these activities will not occur) **n/a**

SECTION 2: EROSION AND SEDIMENTATION CONTROLS

What is a BMP?

Erosion and Sedimentation controls are Best Management Practice (BMP) devices, practices, or methods for preventing storm water pollutants from leaving the construction site and reaching environmentally sensitive areas. The most common BMPs are silt fence, hay bales, and filter socks, but a BMP can also be a policy or procedure like construction sequencing and street sweeping. The objectives of erosion and sediment controls are to minimize the potential for erosion and sedimentation during construction activities.

If BMPs are not depicted on the approved plan set, but erosion or sedimentation is occurring, appropriate BMPs must be installed as directed by the Resident Engineer.

2.1 *Minimize Disturbed Area and Protect Natural Features*

As far as is practicable, existing vegetation will be protected and left in place, in accordance with the clearing limits shown on the approved Plans. Prior to any land disturbance activities commencing on the site, the Contractor will physically mark limits of disturbance (LOD) on the site and any areas to be protected within the site, so that workers can see the areas to be protected. Topsoil will be preserved where possible, in accordance with stock pile management specifications

2.2 **Phase Construction Activity**

At a minimum, construction sequencing and timing of construction activities will include:

1. Before any earthwork begins, erosion and sediment controls will be installed as depicted on the Approved Plans, and in accordance with all applicable sections of the RIDOT Standard Specifications. Upon acceptable completion of site preparation and installation of erosion and sediment controls, site construction activities may commence.
2. While earthwork is being done, routine inspection and maintenance and/or modification of erosion and sediment controls will be performed.
3. Final stabilization of any disturbed areas after earthwork has been completed.

2.3 **Control Stormwater Flowing Onto & Through Project**

Structural BMPs will be used to divert flows from exposed soils, retain or detain flows, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site.

BMPs will be installed as depicted on the approved plan set and in accordance with applicable RIDOT Standard Specifications.

Control measures that may be used, upon approval, include hay bales/silt fencing, compost filter socks, fiber rolls, gravel bag berms, slope drains, check dams, and riprap.

□ 2.4 Stabilizing Soils

Phased Clearing & Grubbing:

Only areas that can be reasonably expected to have active construction work being performed within 21-days of disturbance will be cleared/grubbed at any one time. It is NOT acceptable to clear and grub the entire construction site if disturbed portions will not be active within the 21-day time-frame.

Clearing/Grubbing will not take place during a rain event if erosion is likely to occur; nor will it occur if a rain event is forecasted and appropriate erosion controls cannot be installed prior to the storm and in accordance with section 201, 206 through 211 of the RIDOT standard specifications.

No undisturbed areas will be cleared of existing vegetation after October 15th of any calendar year or during any period of full or limited winter shutdown. All disturbed soils exposed prior to October 15 of any calendar year will be seeded or protected by that date. Any such areas that do not have adequate vegetative stabilization, as determined by the resident engineer or environmental inspector, by November 15 of any calendar year, must be stabilized by erosion control matting or mulch, in accordance with specifications contained within the RI Soil Erosion and Sediment Control Handbook (as amended). If work continues within any of these areas during the period from October 15 through April 15, care must be taken to ensure that only the area required for that Day's work is exposed, and all erodible soil must be restabilized within 5 working days.

As per RIDOT Standard Specification 201.03.1 – Clearing and Grubbing:

After clearing, and by the end of each day's grubbing operation, the Contractor will install erosion control measures that are indicated on the Plans or as directed by the Engineer. Such erosion control measures will be installed in strict accordance with the requirements of **SECTIONS 206, 207, and 208** of these Specifications, **PERIMETER EROSION CONTROLS, CHECK DAMS, and TEMPORARY DEWATERING BASINS**, respectively.

Initiating Stabilization Practices

Upon completion and acceptance of site preparation and initial installation of erosion and sediment controls the operator will initiate appropriate stabilization practices during all phases of construction on all disturbed areas as soon as possible but not more than fourteen (14) days after the construction activity in that area has temporarily or permanently ceased, unless the activity is to resume within twenty-one (21) days.

Any disturbed areas that will not have active construction activity occurring within twenty-one (21) days must be stabilized using the BMPs depicted on the approved plan set and in accordance with RIDOT Standard Specifications Section L.02 – Seeding, Section L.05 - Seed Stabilizers and Section M.18 – Landscape Materials (M.18.08 – Mulch and M.18.09 – Seed Stabilizer Materials).

Maintaining Stabilization

Controls and methods that may be used to maintain soil stabilization include the placement of geotextiles, erosion control blankets/mats, and temporary seeding. If the stabilization BMPs fail and erosion occurs, then alternative control measures &/or methods may need to be substituted.

□ 2.5 Protect Slopes

Structural BMPs will be used to temporarily conduct concentrated stormwater runoff safely down the face of a cut or fill slope without causing erosion on or below the slope.

BMPs will be installed as depicted on the approved plan set and in accordance with applicable RIDOT Standard Specifications.

Construction Site Stormwater Pollution Prevention Plan
BROAD STREET IMPROVEMENTS

Control measures that may be used, upon approval, include temporary slope drains, compost filter socks, fiber rolls, gravel bag berms, erosion control mats/blankets, and temporary vegetative cover.

2.6 Protect Storm Drain Inlets

Structural BMPs will be used to protect ALL stormwater inlets &/or catch basins that may receive sediment-laden stormwater flow.

BMPs will be installed as depicted on the approved plan set and in accordance with applicable RIDOT Standard Specifications.

Control measures that may be used, upon approval, include catch basin inserts, compost filter socks, fiber rolls, and gravel bag berms.

2.7 Protect Storm Drain Outfalls

Structural BMPs will be used to protect ALL stormwater outfalls that may discharge sediment-laden stormwater flow.

BMPs will be installed as depicted on the approved plan set and in accordance with applicable RIDOT Standard Specifications.

Control measures that may be used, upon approval, include compost filter socks, fiber rolls, gravel bag berms, and rip-rap.

2.8 Establish Perimeter Controls and Sediment Barriers

Structural BMPs will be used to establish perimeter barriers that will stop sediment-laden stormwater flow from leaving the construction site.

BMPs will be installed as depicted on the approved plan set and in accordance with applicable RIDOT Standard Specifications.

Control measures that may be used, upon approval, include baled hay &/or silt fence, compost filter socks, fiber rolls, and gravel bag berms.

2.9 Retain Sediment On-Site and Control Dewatering Practices

Sediment traps, basins, and barriers are used to retain sediment on the site to protect streams, lakes, drainage systems, and adjacent property. These devices are used at the outlets of channels, diversions, and other runoff conveyance measures to allow sediment-filled water to pool and sediment to settle. These measures are often used as the last line of defense to stop sediment from leaving the site.

The dewatering of non-contaminated non-stormwater (i.e. groundwater) or accumulated precipitation discharge of sediment-laden water into storm drains, streams, lakes or wetlands prior to sediment removal is prohibited.

The dewatering of contaminated non-stormwater cannot be discharged without prior notice and approval from either the Rhode Island Department of Environmental Management (RIDEM) or the Coastal Resources Management Council (CRMC). Should dewatering of contaminated water be occurring on this construction project, appropriate permits will have been obtained, and will be included as part of the Contract Documents.

Construction Site Stormwater Pollution Prevention Plan
BROAD STREET IMPROVEMENTS

2.10 Monitoring Weather Conditions

Care will be taken to avoid having unstabilized areas exposed during precipitation events. Weather forecasts will be routinely checked, and in the case of an expected precipitation event of over 0.25-inches over a 24-hour period, all BMPs will be inspected, and maintained as necessary, prior to the weather event.

In the case of an extreme weather forecast (greater than one-inch of rain over a 24-hour period), additional erosion/sediment controls will be installed where appropriate.

- Providence, Richmond Square Station

SECTION 3: GOOD HOUSEKEEPING BMPS

The purpose of good housekeeping is to prevent daily construction operations and activities from causing pollution.

☒ 3.1 Off-site Tracking of Sediments

Any construction site access point must employ the BMPs depicted on the approved plan set and in accordance with RIDOT Standard Specifications Section 211 – Construction Accesses, or any method approved of by the Resident Engineer and the RIDOT Office of Stormwater Management. Construction accesses will be used in conjunction with the stabilization of construction roads to reduce the amount of mud picked up by construction vehicles. All RI STD 9.9.0 Construction Access roads will be constructed prior to any roadway accepting construction traffic

If a Construction Access BMP is not designated on the plans, it is still the responsibility of the Operator to ensure that no sediment is tracked off the construction site by any vehicles leaving the site. Additional control measures that may be used, upon approval, include a vehicle washing station and/or daily street sweeping.

The Operator will remain responsible for the clean-up of any mud or dirt that is tracked onto streets or paved areas, even with the installation of gravel construction entrances. Inspect access for excessive sediment build up. Remove sediment and rebuild the exit as necessary to retain effectiveness and prevent off-site tracking. Additional street cleaning may be required if unable to retain sediment on site.

☒ 3.2 Waste Disposal

Building materials and other construction site wastes will be properly managed and disposed of to prevent the discharge of solid materials from wind and precipitation. All types of waste generated at the site will be disposed of in a manner consistent with State Law and/or regulations.

- The waste collection area will not be within any of the constraint areas located on the “Constraint Map” (Section 1.7) and will be approved by the Resident Engineer.
- All waste containers will be covered to avoid contact with wind and precipitation.
- Waste collection will be scheduled frequently enough to prevent containers from overflowing.
- All construction site wastes will be collected, removed, and disposed of in accordance with applicable regulatory requirements and only at authorized disposal sites.
- Equipment and containers will be checked for leaks, corrosion, support or foundation failure, or other signs of deterioration. Those that are found to be defective will be immediately repaired or replaced.

☒ 3.3 Spill Prevention and Control Plan

Spills and leaks will be avoided through frequent inspection of equipment and material storage areas. Heavy equipment and other vehicles will be routinely inspected for leaks and repaired as necessary. Material storage areas will be routinely inspected for leaky containers, open containers, or improper storage techniques that may lead to spills or leaks. Appropriate cleanup procedures and supplies will be available on-site.

Construction Site Stormwater Pollution Prevention Plan
BROAD STREET IMPROVEMENTS

Spills will be cleaned up immediately and following proper response procedures and in accordance with any applicable regulatory requirements. At no time will spills be cleaned and flushed down storm drains or in to any environmentally sensitive area (i.e. stream, pond, wetland).

Equipment/vehicle fueling and repair/maintenance operations or hazardous material storage will not take place within any of the constraint areas located on the "Constraint Map" (Section 1.7) and will be approved by the Resident Engineer.

3.4 Control of Allowable Non-Storm Water Discharges

Non-storm water discharges will be controlled to reduce the likelihood of contamination. Allowable discharges will be kept separate from stormwater flow with BMPs.

For contaminated non-stormwater discharge(s), the requirements and regulations of the associated RIPDES individual permit or RIPDES Remediation General Permit will be adhered to at all times.

3.5 Establish Proper Building Material Staging Areas

Stock piles will not be located within any of the constraint areas located on the "Constraint Map" (Section 1.7) and will be approved by the Resident Engineer. They will have side slopes no greater than 30% and stockpiles of erodible material will be seeded and ringed with RI STD 9.1.0 to stabilize (or approved equivalent: berms, dikes, fiber rolls, compost socks, sandbag, gravel bags).

If soil stockpiles are not stabilized with vegetation, then they will be securely covered at the end of each workday.

All chemicals and/or hazardous waste material must be stored properly and legally in covered areas, with containment systems constructed in or around the storage areas. Areas must be designated for materials delivery and storage. Designated areas will not be located within any of the constraint areas located on the "Constraint Map" (Section 1.12) and will be approved by the Resident Engineer.

3.6 Designate Washout Areas

Concrete mixer trucks and chutes will be washed in a designated area or concrete wastes will be properly disposed of off-site. Washout areas for concrete, paint or any other material will not be within any of the constraint areas located on the "Constraint Map" (Section 1.12) and will be approved by the Resident Engineer.

Temporary concrete washout areas must be constructed and maintained to contain all water and concrete waste generated by washout operations. A sign should be placed at the washout site to inform concrete equipment operators of the facility location. Facilities must be cleaned or replaced when they reach 75% capacity.

At no time will any material (concrete, paint, chemicals) be washed into storm drains, open ditches, streets, streams, wetlands, or any environmentally sensitive area. The site operator must ensure that construction waste is properly and legally disposed of, to avoid exposure to precipitation, at the end of each working day. Designated areas will not be located within any of the constraint areas located on the "Constraint Map" (Section 1.12) and will be approved by the RIDOT Resident Engineer.

☒ 3.7 Establish proper equipment/vehicle fueling & maintenance practices

Vehicle fueling, maintenance and/or washing will occur off-site, or in designated areas. Designated areas will not be located within any of the constraint areas located on the "Constraint Map" (Section 1.7) and will be approved by the Resident Engineer.

Areas will be clearly designated, and berms, sandbags, or other barriers will be used around the perimeter of the maintenance area to prevent storm water contamination.

Construction vehicles will be inspected frequently for leaks. Repairs will take place immediately. Disposal of all used oil, antifreeze, solvents and other automotive-related chemicals will be according to applicable regulations; at no time will any material be washed down the storm drain or into any environmentally sensitive area.

☒ 3.8 Dust Control

Dust control procedures and practices will be used to suppress dust on a construction site during the construction process, as applicable. Precipitation, temperature, humidity, wind velocity and direction will determine amount and frequency of applications. However, the best method of controlling dust is to prevent dust production. This can best be accomplished by limiting the amount of bare soil exposed at one time. RIDOT Standard Specifications Section 907 – Dust Control – will be followed.

Dust Control methods may include watering, surface roughening, wind barriers, walls, and covers.

☒ 3.9 Sweeping

Sweeping of streets, roads, highways, and parking lots that have accumulated significant amounts of pollutants (construction site sediment, trash, debris) will be done as necessary, or as directed by the Resident Engineer. When construction exits are not keeping construction site sediment from the roadway, sweeping will be done daily. Disposal of collected sweeping material will follow RIDOT Standard Specifications Section 931 – Cleaning and Sweeping Pavement.

SECTION 4: POST-CONSTRUCTION BMPs

Post-Construction Best Management Practices are BMPs that are installed during the Construction Phase of a project to manage storm water flow after the construction is completed.

Measures must be used during the construction project to protect permanent or long term BMPs as they are installed so that they will function properly when they are brought online at the end of the construction phase.

Such long-term BMPs may include: infiltration basins, open vegetated swales and natural depressions, vegetated buffer strips, and detention/ retention structures. Controls may also be needed to prevent or minimize erosion at outfall locations or along the length of vegetated channels to reduce velocity flow from the structure to the receiving waters.

Control measures that may need to be implemented during the construction phase typically include measures to ensure proper installation and/or long term functioning of the long-term BMPs. Examples include: ensuring proper material staging areas and equipment routing to avoid compaction of soil in areas meant for permanent BMPs, and final cleaning of structural BMPs before construction finalization.

4.1 Post-Construction BMPs

Location	Post-Construction BMP	Protective Measures
N/A		

SECTION 5: MAINTENANCE and INSPECTIONS

RIPDES Construction General Permit – Section IV.E.2.d

5.1 Maintenance

Maintenance procedures for erosion and sedimentation controls and stormwater management structures/facilities are described on the approved plan set and in Section 212 of the RHODE ISLAND DEPARTMENT OF TRANSPORTATION Standard Specifications for Road and Bridge Construction 2004 EDITION (and Amendments).

The Contractor will maintain erosion and pollution controls to the satisfaction of the Engineer. Erosion and pollution controls must be able to prevent, under normal weather conditions, both the movement of soil materials and the intrusion of sediment-laden discharges into environmentally sensitive areas.

Construction will not commence or continue until all specified erosion and pollution controls are in place, properly installed and accepted by the Engineer.

Erosion and pollution controls will be cleaned when sediment deposits reach the heights indicated in the table provided in Section 212.03.1 of the RIDOT Standard Specifications, after a rainstorm as necessary; and/or when directed by the Resident Engineer.

Erosion control structures will remain in place until all disturbed earth has been securely stabilized and accepted by the Resident Engineer. Before final removal, all accumulated sediment on the upstream side will be removed and legally disposed of. After removal of structures, disturbed areas will be regraded and stabilized as necessary.

BMPs will be maintained in effective operating condition by appropriate means. Upon identification of BMPs that are not operating effectively, maintenance and/or appropriate means will be performed as soon as practicable.

Timely maintenance of the control measures identified in this SWPPP will be ensured by weekly and post-storm event site inspections. These site inspections are a condition and requirement of the RIDOT Stormwater Management Program Plan.

Please Note: The contractor is required to have a full-time, on-site designated contact person responsible for working with the Resident Engineer and the RIDOT designated Environmental Compliance Manager (EMC) to resolve SWPPP-related issues.

5.2 Inspections

Minimum Monitoring and Reporting Requirements

The construction site must be inspected at least once every seven (7) calendar days and within twenty-four (24) hours after any storm event which generates at least 0.25-inches of precipitation per twenty-four (24) hour period and/or after a significant amount of runoff or snowmelt. An appropriate rain gauge (as may be found on www.wunderground.com or www.nws.noaa.gov (or similar sites)) must be identified and utilized for the determination of the storm events.

General Notes

- The City Designated Inspector will prepare a separate inspection report for each inspection.
- The Inspection Reference Number will be a combination of the Construction Contract Number - consecutively numbered inspections.
ex. Inspection reference number for the 4th inspection of a project would be:
2011-AA-BBB-4
- Each report will be signed and dated by the Inspector and forwarded to the Engineer within 24 hours of the inspection.
- Each report will be signed and dated by the Engineer and forwarded to the Contractor's designated representative.
- Each report will be signed and dated by the Contractor upon receipt.
- If Corrective Actions are required, the Contractor will initiate appropriate measures within 24 hours of receiving of the inspection report.
- It is the responsibility of the Resident Engineer to maintain a copy of the SWPPP, copies of all completed inspection reports, and amendments as part of the SWPPP documentation at the project field office during construction.

ATTACHMENT A: Inspection Report Instructions and Template

5.3 Corrective Actions

If, in the opinion of the Resident Engineer, corrective action is required, the Resident Engineer will note it on the inspection report and will notify and direct the Contractor to take corrective action and make all necessary repairs whenever maintenance of the erosion and pollution controls is required.

In accordance with Section 212 of the RIDOT Standard Specifications, the Contractor will commence with the requisite cleaning and maintenance measures no later than the next consecutive calendar day after receiving such a directive from the Engineer, and will aggressively and expeditiously perform such cleaning and maintenance work until the original problem is remedied to the complete satisfaction of the Engineer.

If the Engineer decides on any given day that those erosion and pollution controls specified in the Contract are not in place or have not been adequately maintained as specified in this Section, the daily charge set forth in Special Provision Code 212.1000 will be deducted from monies due the Contractor as a charge for failure to comply with this Specification. Moreover, the stated daily charge will continue each consecutive calendar day thereafter until the deficiencies noted have been corrected to the complete satisfaction of the Engineer.

ATTACHMENT A: Inspection Report Instructions and Template including Corrective Action Log

SECTION 6: Amendments

This SWPPP is intended to be a working document.

It is expected that amendments will be required throughout the construction of the project.

Even if practices are installed on a site per the approved plan, the site is only in compliance when erosion and sedimentation are effectively controlled throughout the entire site.

The SWPPP will be amended whenever there is a change in design, construction, operation, maintenance, or other procedure which has a significant effect on the potential for the discharge of pollutants, or if the SWPPP proves to be ineffective in achieving its objectives (i.e. the selected BMPs are not effective in controlling erosion or sedimentation).

All revisions must be recorded in the Record of Amendments Log Sheet within the SWPPP, and dated red-line drawings and/or a detailed written description must be appended to the SWPPP. Inspection Forms must be revised to reflect all amendments. Update the Revision Date and the Version # in the footer of the Report to reflect amendments made.

All SWPPP Amendments, except minor non-technical revisions, must be approved by the Resident Engineer.

SECTION 7: Recordkeeping

7.1 Requirements

It is the Resident Engineer's responsibility to have the following documents at the Field Office and immediately available for review upon request:

- A copy of the fully signed and dated SWPPP
- Copies of all signed and dated Inspection Reports
- Corrective Action Log
- Amendment Log
- Any Regulatory permits obtained as part of the Project

SECTION 8: Party Certifications

All parties working for the City of Providence are required to comply with the Stormwater Pollution Prevention Plan (SWPPP) for any work that is performed on-site. Any person or group who violates any condition of the SWPPP may be subject to substantial penalties or loss of contract. Contractors and Sub-Contractors are encouraged to advise all employees working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at the Field Office, or may be obtained from the City of Providence by calling 401-680-8400.

The prime contractor and each subcontractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certification statement.

Construction Site Stormwater Pollution Prevention Plan
BROAD STREET IMPROVEMENTS

I acknowledge that I have read and understand the terms and conditions of the SWPPP for the above designated project and agree to follow the BMPs and practices described in the SWPPP.

Resident Engineer:

signature/Click or tap to enter a date.

SWPPP Inspector:

signature/Click or tap to enter a date.

Contractor SWPPP Contact:

signature/Click or tap to enter a date.

Subcontractor SWPPP Contact:

signature/Click or tap to enter a date.

Amendment Log

ALL AMENDMENTS MUST BE APPROVED BY RIDOT RESIDENT ENGINEER

Describe amendment to be made to SWPPP, the date, and the person/title making the amendment. The RIDOT Resident Engineer must approve ALL amendments.

	Date	Description of Amendment	R.E. initials
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

SWPPP APPENDICES

Attachment A

Small-Site SWPPP Inspection Report -- Instructions

Small-Site SWPPP Inspection Report

Small-Site SWPPP Corrective Action Log

Small-Site SWPPP Inspection Report with Instructions

For all projects with **less than one (1) acre of soil disturbance**, RIDOT is required to develop and enforce a site-specific **Storm Water Pollution Prevention Plan (SWPPP)** to remain in compliance with RIDOT's Stormwater Management Program Plan (SWMPP). As part of the SWPPP, a site-specific inspection report must be created and utilized.

Preparing the Inspection Report

This inspection report template has been provided by RIDOT for the development of the site-specific SWPPP Inspection Report. It must be customized for each individual Project to meet the requirements of the RIPDES Construction General Permit and our SWMPP.

It is expected that this Inspection Report will be prepared as part of the preparation of the site-specific SWPPP. This inspection report template is designed to be customized according to the SWPPP document (initially) and then customized based on conditions at the site.

Review the site-specific SWPPP and the Plans to develop the inspection report. **On a copy of the site plan, number all stormwater BMPs and areas of the site that will be inspected.** Include both structural (basins, outlet protection, swales, etc) and non-structural (construction entrances, perimeter barriers, trash areas, etc) BMPs and areas that will be inspected. Also, identify all point source outfalls, areas of highly erodible soils, and the priority natural resource areas (i.e. streams, wetlands, mature trees, etc). **List each BMP or area to be inspected separately in the site-specific BMP section of the inspection report.**

An appropriate rain gauge must be identified and utilized for the determination of the storm events. Rain gauges may be found on www.wunderground.com, www.nws.noaa.gov (or similar sites).

Small-Site SWPPP Inspection Report Instructions for: Broad Street Improvements

RIDOT PROJECT MANAGEMENT

- The RIDOT Division Administrator of Project Management must review the SWPPP and sign the Certification Statement as the site OWNER on p. iii of the SWPPP.

RESIDENT ENGINEER

- The RIDOT Resident Engineer (RE) must review the SWPPP and sign the Certification Statement for RIDOT Resident Engineer in Section 8. If the RE has any questions, contact the RIDOT Office of Stormwater Management (OSM) at 401-734-4892.
- The Resident Engineer (RE) may be the Inspector, or the RE may designate another qualified RIDOT employee as the Inspector. The RE, or the designated inspector, must sign the Certification Statement for RIDOT SWPPP Inspector in Section 8 of the SWPPP.
- **It is the responsibility of the RIDOT Resident Engineer to start the SWPPP Inspections BEFORE EARTHWORK BEGINS.** Earthwork is NOT allowed to proceed until a SWPPP Inspection of the site has been completed.
- After an inspection has been performed, the RE must sign the 'acknowledgement' certification on Page 1 of the Inspection Report at time of receipt from the Inspector.
- The RE must review the Inspection Report within 24-hours of receipt.
 - If the RE agrees with the Inspection report, the RE must:
 - Fill out the "NOTICE TO CONTRACTOR" box on the last page of the Report
 - Have the Contractor sign the 'acknowledgement' certification on Page 1
 - Make a copy of the Inspection Report with all 3 signatures for the Contractor's use
 - If the RE disagrees with a corrective action item, the RE must:
 - Document objection with each item and provide justifiable reason in the inspection report. The contractor will not responsible for initiating corrective actions for such items. RIDOT's OSM will review such items if warranted.
 - Fill out the "NOTICE TO CONTRACTOR" box on the last page of the Report
 - Have the Contractor sign the 'acknowledgement' certification on Page 1

- Make a copy of the Inspection Report with all 3 signatures for the Contractor's use
- It is the responsibility of the RIDOT Resident Engineer to maintain a copy of the SWPPP, copies of all completed inspection reports, and amendments as part of the SWPPP documentation at the project field office during construction.
- **The Inspection Report serves as the RIDOT directive to the Contractor to proceed with corrective actions.**

INSPECTORS

- The RIDOT Resident Engineer (RE) may be the Inspector, or the RE may designate another qualified RIDOT employee as the Inspector. The RE, or the designated inspector, must review the SWPPP and sign the Certification Statement for RIDOT SWPPP Inspector in Section 8 of the SWPPP.
- A separate inspection report will be prepared for each inspection.
- Complete any items that will remain constant, such as the project information and BMP locations and descriptions. Then print out multiple copies (double-sided!) of this customized inspection report to use during the inspections *or save the file for future use on a computer.*
- The Inspection Reference Number shall be a combination of the Construction Contract Number - **consecutively numbered inspections**.
ex. Inspection reference number for the 4th inspection of a project would be:
2006-AA-BBB-4
- Check the rain gauge for past & future weather data prior to inspection.
- Minimum Monitoring and Reporting Requirements
“...the site must be inspected at least once every seven (7) calendar days and within twenty-four (24) hours after any storm event which generates at least 0.25-inches of precipitation per twenty-four (24) hour period and/or after a significant amount of runoff or snowmelt.” (per RIPDES CGP)
- When conducting the inspection, walk the site by following the site map and numbered BMPs locations for inspection. Also, note whether the overall site issues have been addressed.
- Take photos to document issues, completed required maintenance/corrective actions – each photo should be dated and have a unique identification # and written description indicating where it is located within the project area. If a close-up photo is required, it should be preceded with a photo including both the detail area and some type of visible fixed reference point. Photos should be annotated with Station numbers and other identifying information where needed.
- For each inspection, the Inspector must determine if the Construction site is in compliance with the SWPPP, or not. The Inspector must check the appropriate check-box on Page 1 of the inspection report.

- Each report must be signed and dated by the Inspector, and forwarded to the Engineer within 24-hours of the inspection.

Small-Site SWPPP Inspection Report Instructions for:

INSPECTORS (continued)

- On a monthly basis, the inspector must electronically submit a PDF of the Inspection Reports to the Project Manager (PM) and the Office of Stormwater Management (OSM). Please submit OSM reports to both: heather.hamilton@dot.ri.gov and john.preiss@dot.ri.gov .

Monthly submission:

- must include each completed, dated, and signed inspection report, including any associated photos.
- must be submitted no later than the 10th of the month following the end of the reporting period.
- must include a copy of the daily rainfall summary data for the month as reported by the selected rain gauge (ex/ the monthly calendar from www.wunderground.com).
- may have the report content, frequency, &/or submission format changed with approval from the OSM.

CONTRACTOR

- The Contractor must review the SWPPP and sign the Certification Statement for Contractor in Section 8 and pg. iv of the SWPPP.
- After an Inspection has been performed, the Contractor must sign the 'acknowledgement' certification on Page 1 of the inspection form at time of receipt from the Resident Engineer.
- The RE will provide a copy of the signed Inspection Report to the Contractor.
- **The Inspection Report serves as your RIDOT directive to proceed with corrective actions.**
- In accordance with the SWPPP and Section 212 of the RIDOT Standard Specifications, the **Contractor will commence with the requisite cleaning and maintenance measures no later than the next consecutive calendar day after receiving such a directive from the Engineer, and will aggressively and expeditiously perform such cleaning and maintenance work until the original problem is remedied to the complete satisfaction of the Engineer.**
- The CONTRACTOR is responsible for maintaining the CORRECTIVE ACTION LOG.

Small-Site SWPPP Inspection Report Instructions for:

INSPECTOR, RESIDENT ENGINEER, & CONTRACTOR

Amendments

The SWPPP shall be amended whenever there is a change in design, construction, operation, maintenance, or other procedure which has a significant effect on the potential for the discharge of pollutants, or if the SWPPP proves to be ineffective in achieving its objectives.

SWPPP Amendments may be recommended by any party, but all amendments must be approved by the Resident Engineer. The revision must be recorded in the Record of Amendments Log Sheet within the SWPPP, and dated red-line drawings and/or a detailed written description must be appended to the SWPPP. Inspection Forms must be revised to reflect all amendments by the Inspector.

Questions

Questions may be addressed to the RIDOT Office of Stormwater Management, 360 Lincoln Ave, Warwick, RI 02888, 401-734-4892.

RIDOT Small-Site SWPPP Inspection Report

Project Information			
Name/Location	Broad Street Improvements		
Project Manager	Alex Ellis	Resident Engineer	
Contractor		Contractor SWPPP Contact	
E&S Sub-Contractor		Sub-Contractor SWPPP Contact	
Inspection Information			
Inspector	Name	Phone	Email
Inspection Date	Click or tap to enter a date.	Start/End Time	
Inspection Type <input type="checkbox"/> Weekly <input type="checkbox"/> Pre-storm event <input type="checkbox"/> During storm event <input type="checkbox"/> Post-storm event <input type="checkbox"/> Violation			
Weather Information			
Rain Gauge:			
Last Rain Event Date: Click or tap to enter a date. Duration (hrs): Approximate Rainfall (in):			
Current Weather at time of this inspection:			
Weather Forecast at time of this inspection: (And: When is next precipitation or wind event anticipated?)			
Certification Statements			
Inspector: (check one) <input type="checkbox"/> I, as the designated Inspector, certify that this site has been inspected and <u>is in compliance</u> with the site-specific SWPPP. <input type="checkbox"/> I, as the designated Inspector, certify that this site has been inspected and I have made the determination that the <u>site requires corrective actions</u> before it will be compliant with the site-specific SWPPP. The required corrective actions are noted within this inspection report.			
Print Name:	Signature:	Date: Click or tap to enter a date.	
Resident Engineer: I, the Resident Engineer, acknowledge the receipt of this SWPPP inspection report, and understand the requirements set forth in the RIDOT Standard Specifications and the Contract Documents regarding the implementation and maintenance of erosion and sedimentation controls.			
Print Name:	Signature:	Date: Click or tap to enter a date.	
Contractor: I, the designated Contractor representative, acknowledge the receipt of this SWPPP inspection report, and understand the requirements set forth in the RIDOT Standard Specifications and the Contract Documents regarding the implementation and maintenance of erosion and sedimentation controls.			
Print Name:	Signature:	Date: Click or tap to enter a date.	

EROSION AND SEDIMENTATION BMP INSPECTION		Installed & Operating Correctly?	Assoc. Photo #	CORRECTIVE ACTION
2.1	Are Limits of Disturbance clearly <u>marked at the site</u> ?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
2.1	Are natural resource areas (e.g., streams, wetlands, trees, etc.) <u>protected</u> with sediment barriers or similar BMPs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> None on/adjacent to site		
2.2	Is construction sequencing being <u>followed</u> ?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
2.3	Are structural BMPs properly installed to <u>divert stormwater flow</u> from entering the construction site?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> None needed		
2.4	Is clearing/grubbing only occurring in areas that will have <u>active work</u> within 21-days?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
2.4	Is clearing/grubbing taking place inside the <u>Apr 15 - Oct 15</u> window?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
2.4	Do unstabilized areas have appropriate <u>erosion & pollution controls</u> in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> All areas stabilized		
2.5	Are all slopes <u>protected</u> from concentrated stormwater flow?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No slopes		
2.6	Are ALL storm drain inlets &/or catch basins properly <u>protected with silt sacks or other appropriate BMPs</u> ?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
2.7	Are ALL storm drain outfalls properly <u>protected from scour/erosion</u> ?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No outfalls		
2.8	Are perimeter and sediment controls adequately <u>installed & maintained</u> to prevent sediment from leaving the site?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
2.9	If dewatering, are <u>discharge points protected & receiving waters free of sediment deposits</u> ?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No dewatering		
2.10	Is weather forecast being <u>checked regularly</u> ?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Notes on Erosion and Sediment Controls:				

GOOD HOUSEKEEPING BMP INSPECTION		Installed & Operating Correctly?	Assoc. Photo #	CORRECTIVE ACTION
3.1	Are BMPs effectively limiting sediment from being <u>tracked</u> into the street?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
3.2	Is trash/litter from work areas collected & placed in <u>covered</u> containers regularly?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
3.3	Are equipment , vehicles, containers, & storage areas <u>free from leaks</u> ?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
3.3	Are materials that are potential stormwater contaminants <u>covered</u> or <u>stored inside</u> ?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
3.4	Are non-storm water discharges (i.e. dust control H ₂ O) free from <u>contamination</u> ?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
3.5	Are stockpiles <u>covered</u> (either with temporary vegetation or tarps), <u>ringed</u> with barrier BMPs, & located <u>at least 50 feet away</u> from natural resources & storm drains?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No stockpiles		
3.6	Are washout facilities (e.g. paint, grout, concrete) <u>available</u> , clearly <u>marked</u> , and maintained & located <u>at least 50-feet away</u> from natural resources and storm drains?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No concrete use at this time		
3.7	Are vehicle & equipment fueling, cleaning, & maintenance areas <u>free from leaks</u> & located <u>at least 50-feet away</u> from natural resources & storm drains?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No fueling areas		
3.8	Is dust being <u>controlled</u> on-site?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
3.9	Is sweeping being used to <u>keep sediment off roads</u> & parking lots?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
PROCEDURAL BMP INSPECTION		Installed & Operating Correctly?	Assoc. Photo #	CORRECTIVE ACTION
4.1	Are permanent stormwater STUs (i.e. infiltration basins, swales, permeable pavement areas) being <u>protected from compaction</u> ? (<i>No stockpiling or vehicles in these areas!</i>)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No permanent STUs		
5.1	Are all erosion & pollution controls being <u>maintained</u> in accordance with RIDOT Standard Spec Section 212?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
5.2	Are inspections taking place at least every 7 days & after storm events?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
5.3	Has the Contractor <u>initiated & completed</u> previous Corrective Actions (CA)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No previous CA		
6.0	Are SWPPP Amendments being <u>logged</u> ?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> None		
7.0	Are SWPPP & ALL inspection reports being kept at RIDOT Field Office & forwarded to OSM by 10 th of month?	<input type="checkbox"/> Yes <input type="checkbox"/> No		

TO BE FILLED OUT BY RIDOT RESIDENT ENGINEER

OUTSTANDING CORRECTIVE ACTIONS

Were **CORRECTIVE ACTIONS** reported in the previous inspection report?

<input type="checkbox"/> NO	No Corrective Actions were issued in <u>previous</u> inspection report.	
<input type="checkbox"/> YES and...	<input type="checkbox"/> All Corrective Actions have been addressed	
	Date work began: <small>Click or tap to enter a date.</small>	Date work completed: <small>Click or tap to enter a date.</small>
	<input type="checkbox"/> Corrective Actions remain and are <u>noted in this inspection report</u> . WHY did they not get addressed w/in 7-days?	

NOTICE TO CONTRACTOR

This SWPPP Inspection Report, completed by a RIDOT-designated inspector, indicates that this construction site is:

<input type="checkbox"/> COMPLIANT	<input type="checkbox"/> No immediate actions are required. Keep up the good work! <input type="checkbox"/> Work is required to maintain site compliance.	
<input type="checkbox"/> NON-COMPLIANT	<p>This document serves as your RIDOT directive to proceed with the CORRECTIVE ACTIONS that have been outlined above.</p> <p>The SWPPP, Construction Contract documents, and Section 212 of the RIDOT Standard Specifications state that the Contractor will commence with the requisite cleaning and maintenance measures <u>no later than the next consecutive calendar day</u> after receiving such a directive from the Engineer and will aggressively and expeditiously perform such cleaning and maintenance work until the original problem is remedied to the complete satisfaction of the Engineer.</p>	
	Date work to begin: <small>Click or tap to enter a date.</small>	
	Date work to be completed: <small>Click or tap to enter a date.</small>	

R.E. initials: _____ R.E. Comments:
 Date: Click or tap to enter a date.

Corrective Action Log

**TO BE FILLED OUT BY SITE OPERATOR
FOR EVERY INSPECTION**

Location/ Station	Corrective Action	Date Notified	Date Completed	RIDOT Initial
		Click or tap to	Click or tap to enter a	
		Click or tap to	Click or tap to enter a	
		Click or tap to	Click or tap to enter a	
		Click or tap to	Click or tap to enter a	
		Click or tap to	Click or tap to enter a	
		Click or tap to	Click or tap to enter a	
		Click or tap to	Click or tap to enter a	
		Click or tap to	Click or tap to enter a	
		Click or tap to	Click or tap to enter a	
		Click or tap to	Click or tap to enter a	
		Click or tap to	Click or tap to enter a	
		Click or tap to	Click or tap to enter a	
		Click or tap to	Click or tap to enter a	
Operator Signature:		Date:	Click or tap to enter a date.	

**APPENDIX K.1:
SCHEDULE OF UNIT PRICES
BROAD STREET IMPROVEMENTS**

**BROAD STREET IMPROVEMENTS
PROVIDENCE, RHODE ISLAND**

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
201.0403	REMOVE AND DISPOSE SIDEWALKS (\$ _____) per square yard _____ dollars and _____ cents	610	SY	\$ _____
201.0407	REMOVE AND DISPOSE PAVEMENT AND RIGID BASE (\$ _____) per square yard _____ dollars and _____ cents	107	SY	\$ _____
201.0409	REMOVE AND DISPOSE FLEXIBLE PAVEMENT (\$ _____) per square yard _____ dollars and _____ cents	327	SY	\$ _____
201.0450	REMOVE AND STOCKPILE GRANITE CURB (\$ _____) per linear foot _____ dollars and _____ cents	333	LF	\$ _____
201.0610	REMOVE AND DISPOSE DIRECTIONAL, WARNING, REGULATORY, SERVICE, AND STREET SIGNS (\$ _____) per each _____ dollars and _____ cents	31	EA	\$ _____
201.0626	REMOVE AND SALVAGE TRAFFIC SIGNAL EQUIPMENT (\$ _____) lump sum _____ dollars and _____ cents	1	LS	\$ _____
201.9901	REMOVE, STOCKPILE, AND RESET OR RELOCATE BIKE HITCH (\$ _____) per each _____ dollars and _____ cents	5	EA	\$ _____
201.9902	REMOVE AND SALVAGE FRAME AND GRATE OR FRAME AND COVER (\$ _____) per each _____ dollars and _____ cents	3	EA	\$ _____

**BROAD STREET IMPROVEMENTS
PROVIDENCE, RHODE ISLAND**

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
202.0100	EARTH EXCAVATION (\$ _____) per cubic yard _____ dollars and _____ cents	131	CY	\$ _____
204.0100	TRIMMING AND FINE GRADING (\$ _____) per square yard _____ dollars and _____ cents	588	SY	\$ _____
206.9901	COMPOST FILTER SOCK INLET PROTECTION (\$ _____) per each _____ dollars and _____ cents	19	EA	\$ _____
209.0200	SILT SACK INSERT CATCH BASIN INLET PROTECTION (\$ _____) per each _____ dollars and _____ cents	3	EA	\$ _____
212.2000	CLEANING AND MAINTENANCE OF EROSION CONTROLS (\$ _____) lump sum _____ dollars and _____ cents	1	LS	\$ _____
302.0100	GRAVEL BORROW SUBBASE COURSE (\$ _____) per cubic yard _____ dollars and _____ cents	131	CY	\$ _____
401.3005	CLASS 9.5 HMA FOR MISCELLANEOUS WORK (\$ _____) per ton _____ dollars and _____ cents	19	TON	\$ _____
403.0300	ASPHALT EMULSION TACK COAT (\$ _____) per square yard _____ dollars and _____ cents	105	SY	\$ _____

**BROAD STREET IMPROVEMENTS
PROVIDENCE, RHODE ISLAND**

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
601.0300	CLASS A PORTLAND CEMENT CONCRETE (\$ _____) per cubic yard _____ dollars and _____ cents	30	CY	\$ _____
702.9901	PROVIDENCE STANDARD RECTANGULAR FRAME AND GRATE (\$ _____) per each _____ dollars and _____ cents	3	EA	\$ _____
707.0900	ADJUST MANHOLES TO GRADE (\$ _____) per each _____ dollars and _____ cents	2	EA	\$ _____
708.9041	CLEAN CATCH BASIN (\$ _____) per each _____ dollars and _____ cents	19	EA	\$ _____
713.8300	ADJUST GAS GATE BOXES TO GRADE (\$ _____) per each _____ dollars and _____ cents	1	EA	\$ _____
905.0110	PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD (\$ _____) per cubic yard _____ dollars and _____ cents	123	CY	\$ _____
905.0115	PORTLAND CEMENT CONCRETE DRIVEWAY STANDARD (\$ _____) per cubic yard _____ dollars and _____ cents	12	CY	\$ _____
906.0112	GRANITE CURB PROVIDENCE STANDARD 7" STRAIGHT (\$ _____) per linear foot _____ dollars and _____ cents	685	LF	\$ _____

**BROAD STREET IMPROVEMENTS
PROVIDENCE, RHODE ISLAND**

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
906.0113	GRANITE CURB PROVIDENCE STANDARD 7" CIRCULAR (\$ _____) per linear foot _____ dollars and _____ cents	80	LF	\$ _____
906.0700	REMOVE, HANDLE, HAUL TRIM RESET CURB EDGING, STRAIGHT, CIRCULAR ALL TYPES (\$ _____) per linear foot _____ dollars and _____ cents	8	LF	\$ _____
906.9901	TRAFFIC SEPARATOR CURB (\$ _____) per each _____ dollars and _____ cents	394	EA	\$ _____
906.9902	PROVIDENCE STANDARD GRANITE 6'-0" TRANSITION CURB, RI STANDARD 7.3.2 MODIFIED (7") (\$ _____) per each _____ dollars and _____ cents	17	EA	\$ _____
906.9903	PROVIDENCE STANDARD GRANITE RAMP STONE, RI STANDARD 7.3.9 MODIFIED (7") - STRAIGHT (\$ _____) per each _____ dollars and _____ cents	11	EA	\$ _____
906.9904	PROVIDENCE STANDARD GRANITE RAMP STONE, RI STANDARD 7.3.9 MODIFIED (7") - CIRCULAR (\$ _____) per each _____ dollars and _____ cents	3	EA	\$ _____
906.9905	PROVIDENCE STANDARD GRANITE 3'-0" TRANSITION CURB, RI STANDARD 7.3.1 MODIFIED (7") (\$ _____) per each _____ dollars and _____ cents	1	EA	\$ _____
906.9906	REMOVE AND RELOCATE CURB RETURN (\$ _____) per each _____	3	EA	\$ _____

**BROAD STREET IMPROVEMENTS
PROVIDENCE, RHODE ISLAND**

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
	_____ dollars and _____ cents			
906.9907	PROVIDENCE STANDARD GRANITE 2'-0" RADIUS CURB RETURN (\$ _____) per each	1	EA	\$ _____
	_____ dollars and _____ cents			
907.0200	CALCIUM CHLORIDE FOR DUST CONTROL (\$ _____) per ton	1	TON	\$ _____
	_____ dollars and _____ cents			
914.5010	FLAGPERSONS (\$ _____) per manhour	960	MHRS	\$ _____
	_____ dollars and _____ cents			
914.5020	FLAGPERSONS - OVERTIME (\$ _____) per manhour	192	MHRS	\$ _____
	_____ dollars and _____ cents			
919.0101	TEST PITS (\$ _____) per each	2	EA	\$ _____
	_____ dollars and _____ cents			
922.0100	TEMPORARY CONSTRUCTION SIGNS STANDARD 29.1.0 AND 27.1.1 (\$ _____) per square foot	164	SF	\$ _____
	_____ dollars and _____ cents			
923.0105	DRUM BARRICADE STANDARD 26.2.0 (\$ _____) per barrel day	1,440	BDAY	\$ _____
	_____ dollars and _____ cents			
923.0125	PLASTIC PIPE TYPE III BARRICADE STANDARD 26.3.1 (\$ _____) per each	20	EA	\$ _____

**BROAD STREET IMPROVEMENTS
PROVIDENCE, RHODE ISLAND**

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
	_____ <i>dollars and</i> _____ <i>cents</i>			
923.0200	FLUORESCENT TRAFFIC CONES STANDARD 26.1.0 (\$ _____) <i>per each</i>	182	EA	\$ _____
	_____ <i>dollars and</i> _____ <i>cents</i>			
931.0110	CLEANING AND SWEEPING PAVEMENT (\$ _____) <i>per hundred square yards</i>	520	HSY	\$ _____
	_____ <i>dollars and</i> _____ <i>cents</i>			
932.0210	FULL DEPTH SAWCUT OF BITUMINOUS PAVEMENT AND RIGID BASE (\$ _____) <i>per linear foot</i>	1,557	LF	\$ _____
	_____ <i>dollars and</i> _____ <i>cents</i>			
932.0230	FULL DEPTH SAWCUT OF PORTLAND CEMENT CONCRETE SIDEWALK/DRIVEWAY (\$ _____) <i>per linear foot</i>	414	LF	\$ _____
	_____ <i>dollars and</i> _____ <i>cents</i>			
936.0100	MOBILIZATION AND DEMOBILIZATION (\$ _____) <i>lump sum</i>	1	LS	\$ _____
	_____ <i>dollars and</i> _____ <i>cents</i>			
937.0200	MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION (\$ _____) <i>lump sum</i>	1	LS	\$ _____
	_____ <i>dollars and</i> _____ <i>cents</i>			
L01.0102	LOAM BORROW 4 INCHES DEEP (\$ _____) <i>per square yard</i>	6	SY	\$ _____
	_____ <i>dollars and</i> _____ <i>cents</i>			
L02.0102	RESIDENTIAL SEEDING (TYPE 2)	6	SY	\$ _____

**BROAD STREET IMPROVEMENTS
PROVIDENCE, RHODE ISLAND**

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
	(\$ _____) per square yard _____ dollars and _____ cents			
L11.0102	TREE PLANT PROTECTION DEVICE (\$ _____) per each _____ dollars and _____ cents	11	EA	\$ _____
L15.9901	PINE BARK MULCH FOR TREE PIT (3" DEPTH) (\$ _____) per square yard _____ dollars and _____ cents	23	SY	\$ _____
T04.5303	14 AWG 3 CONDUCTOR CABLE (\$ _____) per linear foot _____ dollars and _____ cents	1,575	LF	\$ _____
T04.5305	14 AWG 5 CONDUCTOR CABLE (\$ _____) per linear foot _____ dollars and _____ cents	1,530	LF	\$ _____
T04.5307	14 AWG 7 CONDUCTOR CABLE (\$ _____) per linear foot _____ dollars and _____ cents	220	LF	\$ _____
T05.0400	BREAK INTO EXISTING HANDHOLE (\$ _____) per each _____ dollars and _____ cents	20	EA	\$ _____
T05.1030	ADJUST HANDHOLE TO GRADE (\$ _____) per each _____ dollars and _____ cents	3	EA	\$ _____

**BROAD STREET IMPROVEMENTS
PROVIDENCE, RHODE ISLAND**

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
T06.5130	3 INCH SCHEDULE 40 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDERGROUND (\$ _____) per linear foot _____ dollars and _____ cents	125	LF	\$ _____
T11.2008	TRAFFIC SIGNAL STANDARD, 8 FOOT, STD 19.4.0 ALUMINUM PEDESTAL POLE AND FOUNDATION (\$ _____) per each _____ dollars and _____ cents	5	EA	\$ _____
T12.9901	TRAFFIC SIGNAL CONTROLLER MODIFICATIONS (\$ _____) lump sum _____ dollars and _____ cents	1	LS	\$ _____
T13.1000	TRAFFIC DETECTORS-LOOP, STANDARD 19.6.0 (\$ _____) per linear foot _____ dollars and _____ cents	650	LF	\$ _____
T13.8210	ACCESSIBLE PEDESTRIAN DETECTOR - PUSHBUTTON WITH SIGN (\$ _____) per each _____ dollars and _____ cents	26	EA	\$ _____
T13.9903	EXTENSION BRACKET FOR PEDESTRIAN PUSHBUTTON (\$ _____) per each _____ dollars and _____ cents	12	EA	\$ _____
T14.3613	1 WAY 3 SECTION BRACKET MOUNTED SIGNAL HEAD 12 INCH (\$ _____) per each _____ dollars and _____ cents	2	EA	\$ _____
T14.3911	1 WAY PEDESTAL MOUNTED L.E.D. PEDESTRIAN SIGNAL HEAD 12 INCH (\$ _____) per each _____ dollars and _____ cents	5	EA	\$ _____

**BROAD STREET IMPROVEMENTS
PROVIDENCE, RHODE ISLAND**

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
	_____ cents			
T14.3912	2 WAY PEDESTAL MOUNTED L.E.D. PEDESTRIAN SIGNAL HEAD 12 INCH (\$ _____) per each	1	EA	\$ _____
	_____ dollars and _____ cents			
T15.0100	DIRECTIONAL REGULATORY AND WARNING SIGNS (\$ _____) per square foot	896	SF	\$ _____
	_____ dollars and _____ cents			
T15.0200	REMOVE AND RELOCATE DIRECTIONAL REGULATORY AND WARNING SIGN (\$ _____) per each	1	EA	\$ _____
	_____ dollars and _____ cents			
T15.2000	PARKING SIGNS (\$ _____) per square foot	108	SF	\$ _____
	_____ dollars and _____ cents			
T18.9901	FLEXIBLE DELINEATOR POST (\$ _____) per each	79	EA	\$ _____
	_____ dollars and _____ cents			
T20.1000	REMOVE EXISTING PAVEMENT MARKINGS (\$ _____) per linear foot	57,960	LF	\$ _____
	_____ dollars and _____ cents			
T20.1010	REMOVE EXISTING PAVEMENT MARKINGS (\$ _____) per each	70	EA	\$ _____
	_____ dollars and _____ cents			
T20.0904	FLEXIBLE DELINEATOR POST (\$ _____) per each	79	EA	\$ _____
	_____ dollars and _____ cents			

**BROAD STREET IMPROVEMENTS
PROVIDENCE, RHODE ISLAND**

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
	_____ cents			
T20.2406	6 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS (\$ _____) per linear foot _____ dollars and _____ cents	28,412	LF	\$ _____
T20.2412	12 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS (\$ _____) per linear foot _____ dollars and _____ cents	2,403	LF	\$ _____
T20.2424	24 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS (\$ _____) per linear foot _____ dollars and _____ cents	10,320	LF	\$ _____
T20.2804	4 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS (\$ _____) per linear foot _____ dollars and _____ cents	9,509	LF	\$ _____
T20.2806	6 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS (\$ _____) per linear foot _____ dollars and _____ cents	10	LF	\$ _____
T20.3401	FINAL EPOXY RESIN PAVEMENT ARROW - STRAIGHT, LEFT, RIGHT, OR COMBINED STANDARD 20.1.0 (\$ _____) per each _____ dollars and _____ cents	5	EA	\$ _____
T20.3410	FINAL EPOXY RESIN PAVEMENT MARKING WORD "ONLY" STANDARD 20.1.0 (\$ _____) per each _____ dollars and _____ cents	4	EA	\$ _____
T20.3416	EPOXY RESIN PAVEMENT MARKING - HELMETED BICYCLIST SYMBOL WITH ARROW (\$ _____) per each	76	EA	\$ _____

**BROAD STREET IMPROVEMENTS
PROVIDENCE, RHODE ISLAND**

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
	_____ <i>dollars and</i> _____ <i>cents</i>			
T20.9901	GREEN FRICTION HIGH VISIBILITY SURFACE (\$ _____) <i>per square foot</i>	12,690	SF	\$ _____
	_____ <i>dollars and</i> _____ <i>cents</i>			
T20.9902	EPOXY RESIN PAVEMENT MARKING - BICYCLE BOX SYMBOL (\$ _____) <i>per each</i>	7	EA	\$ _____
	_____ <i>dollars and</i> _____ <i>cents</i>			
T20.9903	EPOXY RESIN PAVEMENT MARKING WORD "BIKE" (\$ _____) <i>per each</i>	1	EA	\$ _____
	_____ <i>dollars and</i> _____ <i>cents</i>			
T20.9904	EPOXY RESIN PAVEMENT MARKING WORD "BUS" (\$ _____) <i>per each</i>	15	EA	\$ _____
	_____ <i>dollars and</i> _____ <i>cents</i>			
T20.9905	EPOXY RESIN PAVEMENT MARKING - BICYCLE SYMBOL (\$ _____) <i>per each</i>	11	EA	\$ _____
	_____ <i>dollars and</i> _____ <i>cents</i>			
T20.9906	EPOXY RESIN PAVEMENT MARKING - BIKE YIELD LINE SYMBOL (\$ _____) <i>per each</i>	30	EA	\$ _____
	_____ <i>dollars and</i> _____ <i>cents</i>			
TOTAL OF BID:				
	(\$ _____)			
	_____ <i>dollars and</i> _____ <i>cents</i>			

**APPENDIX K.2:
SCHEDULE OF UNIT PRICES
BROAD STREET IMPROVEMENTS – RESURFACING**

**BROAD STREET IMPROVEMENTS RESURFACING
PROVIDENCE, RHODE ISLAND**

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
201.0403	REMOVE AND DISPOSE SIDEWALKS (\$ _____) per square yard _____ dollars and _____ cents	1,999	SY	\$ _____
201.0407	REMOVE AND DISPOSE PAVEMENT AND RIGID BASE (\$ _____) per square yard _____ dollars and _____ cents	172	SY	\$ _____
201.0450	REMOVE AND STOCKPILE GRANITE CURB (\$ _____) per linear foot _____ dollars and _____ cents	365	LF	\$ _____
201.0610	REMOVE AND DISPOSE DIRECTIONAL, WARNING, REGULATORY, SERVICE, AND STREET SIGNS (\$ _____) per each _____ dollars and _____ cents	4	EA	\$ _____
201.9901	REMOVE, STOCKPILE, AND RESET OR RELOCATE BIKE HITCH (\$ _____) per each _____ dollars and _____ cents	1	EA	\$ _____
201.9903	REMOVE AND RESET SIGN (\$ _____) per each _____ dollars and _____ cents	10	EA	\$ _____
201.9904	REMOVE AND DISPOSE BRICK CROSSWALK (\$ _____) per square foot _____ dollars and _____ cents	1,008	SF	\$ _____
201.9905	ABANDON EXISTING SIGNAL HANDHOLE (\$ _____) per each _____	1	EA	\$ _____

**BROAD STREET IMPROVEMENTS RESURFACING
PROVIDENCE, RHODE ISLAND**

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
	<i>dollars and</i> _____			
	<i>cents</i> _____			
201.9906	REMOVE AND DISPOSE TRASH RECEPTACLE (\$ _____) per each	1	EA	\$ _____
	<i>dollars and</i> _____			
	<i>cents</i> _____			
201.9907	REMOVE AND RELOCATE BENCH (\$ _____) per each	1	EA	\$ _____
	<i>dollars and</i> _____			
	<i>cents</i> _____			
201.9908	REMOVE AND RELOCATE PLANTER (\$ _____) per each	1	EA	\$ _____
	<i>dollars and</i> _____			
	<i>cents</i> _____			
202.0100	EARTH EXCAVATION (\$ _____) per cubic yard	431	CY	\$ _____
	<i>dollars and</i> _____			
	<i>cents</i> _____			
204.0100	TRIMMING AND FINE GRADING (\$ _____) per square yard	1,937	SY	\$ _____
	<i>dollars and</i> _____			
	<i>cents</i> _____			
206.9901	COMPOST FILTER SOCK INLET PROTECTION (\$ _____) per each	35	EA	\$ _____
	<i>dollars and</i> _____			
	<i>cents</i> _____			
209.0200	SILT SACK INSERT CATCH BASIN INLET PROTECTION (\$ _____) per each	24	EA	\$ _____
	<i>dollars and</i> _____			
	<i>cents</i> _____			
212.2000	CLEANING AND MAINTENANCE OF EROSION CONTROLS	1	LS	\$ _____

**BROAD STREET IMPROVEMENTS RESURFACING
PROVIDENCE, RHODE ISLAND**

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
	(\$ _____) <i>lump sum</i>			
	_____ <i>dollars and</i>			
	_____ <i>cents</i>			
302.0100	GRAVEL BORROW SUBBASE COURSE	431	CY	\$ _____
	(\$ _____) <i>per cubic yard</i>			
	_____ <i>dollars and</i>			
	_____ <i>cents</i>			
401.3000	CLASS 9.5 HMA	5,064	TON	\$ _____
	(\$ _____) <i>per ton</i>			
	_____ <i>dollars and</i>			
	_____ <i>cents</i>			
401.3003	CLASS 9.5 HMA FOR PATCHING	31	TON	\$ _____
	(\$ _____) <i>per ton</i>			
	_____ <i>dollars and</i>			
	_____ <i>cents</i>			
403.0300	ASPHALT EMULSION TACK COAT	56,040	SY	\$ _____
	(\$ _____) <i>per square yard</i>			
	_____ <i>dollars and</i>			
	_____ <i>cents</i>			
601.0300	CLASS A PORTLAND CEMENT CONCRETE	45	CY	\$ _____
	(\$ _____) <i>per cubic yard</i>			
	_____ <i>dollars and</i>			
	_____ <i>cents</i>			
702.9901	PROVIDENCE STANDARD RECTANGULAR FRAME AND GRATE	2	EA	\$ _____
	(\$ _____) <i>per each</i>			
	_____ <i>dollars and</i>			
	_____ <i>cents</i>			
702.9902	PROVIDENCE STANDARD GRANITE INLET STONE 5 FOOT STANDARD 7.3.5	4	EA	\$ _____
	(\$ _____) <i>per each</i>			
	_____ <i>dollars and</i>			
	_____ <i>cents</i>			

**BROAD STREET IMPROVEMENTS RESURFACING
PROVIDENCE, RHODE ISLAND**

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
702.9903	BRICK DROP INLET (\$ _____) per each _____ dollars and _____ cents	2	EA	\$ _____
704.0300	RECONSTRUCT CATCH BASIN/VERTICAL WALLS (\$ _____) per vertical linear foot _____ dollars and _____ cents	50	VLF	\$ _____
707.0900	ADJUST MANHOLE TO GRADE (\$ _____) per each _____ dollars and _____ cents	18	EA	\$ _____
707.0950	ADJUST TELEPHONE MANHOLE TO GRADE (\$ _____) per each _____ dollars and _____ cents	61	EA	\$ _____
707.0955	ADJUST ELECTRICAL MANHOLE TO GRADE (\$ _____) per each _____ dollars and _____ cents	55	EA	\$ _____
707.1000	ADJUST SANITARY MANHOLE TO GRADE (\$ _____) per each _____ dollars and _____ cents	177	EA	\$ _____
707.1100	ADJUST CATCH BASINS (\$ _____) per each _____ dollars and _____ cents	20	EA	\$ _____
707.2000	ADJUST FRAME AND GRATE TO GRADE (\$ _____) per each _____ dollars and _____	71	EA	\$ _____

**BROAD STREET IMPROVEMENTS RESURFACING
PROVIDENCE, RHODE ISLAND**

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
	<i>cents</i>			
707.9901	ADJUST DRAINAGE MANHOLE TO GRADE (\$ _____) per each	39	EA	\$ _____
	<i>dollars and</i>			
	<i>cents</i>			
708.9041	CLEAN CATCH BASIN (\$ _____) per each	15	EA	\$ _____
	<i>dollars and</i>			
	<i>cents</i>			
713.8269	ADJUST WATER GATE BOXES TO GRADE (\$ _____) per each	132	EA	\$ _____
	<i>dollars and</i>			
	<i>cents</i>			
713.8300	ADJUST GAS GATE BOXES TO GRADE (\$ _____) per each	50	EA	\$ _____
	<i>dollars and</i>			
	<i>cents</i>			
713.9901	ADJUST UNKNOWN GATE TO GRADE (\$ _____) per each	60	EA	\$ _____
	<i>dollars and</i>			
	<i>cents</i>			
905.0110	PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD (\$ _____) per cubic yard	416	CY	\$ _____
	<i>dollars and</i>			
	<i>cents</i>			
906.0112	GRANITE CURB PROVIDENCE STANDARD 7" STRAIGHT (\$ _____) per linear foot	701	LF	\$ _____
	<i>dollars and</i>			
	<i>cents</i>			
906.0113	GRANITE CURB PROVIDENCE STANDARD 7" CIRCULAR	114	LF	\$ _____

**BROAD STREET IMPROVEMENTS RESURFACING
PROVIDENCE, RHODE ISLAND**

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
	(\$ _____) per linear foot _____ dollars and _____ cents			
906.0700	REMOVE, HANDLE, HAUL TRIM RESET CURB EDGING, STRAIGHT, CIRCULAR ALL TYPES	897	LF	\$ _____
	(\$ _____) per linear foot _____ dollars and _____ cents			
906.9903	PROVIDENCE STANDARD GRANITE RAMP STONE, RI STANDARD 7.3.9 MODIFIED (7") - STRAIGHT	22	EA	\$ _____
	(\$ _____) per each _____ dollars and _____ cents			
906.9904	PROVIDENCE STANDARD GRANITE RAMP STONE, RI STANDARD 7.3.9 MODIFIED	28	EA	\$ _____
	(\$ _____) per each _____ dollars and _____ cents			
906.9906	REMOVE AND RELOCATE CURB RETURN	4	EA	\$ _____
	(\$ _____) per each _____ dollars and _____ cents			
907.0200	CALCIUM CHLORIDE FOR DUST CONTROL	2	TON	\$ _____
	(\$ _____) per ton _____ dollars and _____ cents			
914.5010	FLAGPERSONS	720	MHRS	\$ _____
	(\$ _____) per manhour _____ dollars and _____ cents			
914.5020	FLAGPERSONS - OVERTIME	144	MHRS	\$ _____

**BROAD STREET IMPROVEMENTS RESURFACING
PROVIDENCE, RHODE ISLAND**

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
	(\$ _____) per manhour _____ dollars and _____ cents			
919.0101	TEST PITS (\$ _____) per each _____ dollars and _____ cents	2	EA	\$ _____
922.0100	TEMPORARY CONSTRUCTION SIGNS STANDARD 29.1.0 AND 27.1.1 (\$ _____) per square foot _____ dollars and _____ cents	164	SF	\$ _____
923.0105	DRUM BARRICADE STANDARD 26.2.0 (\$ _____) per barrel day _____ dollars and _____ cents	1,440	BDAY	\$ _____
923.0125	PLASTIC PIPE TYPE III BARRICADE STANDARD 26.3.1 (\$ _____) per each _____ dollars and _____ cents	20	EA	\$ _____
923.0200	FLUORESCENT TRAFFIC CONES STANDARD 26.1.0 (\$ _____) per each _____ dollars and _____ cents	32	EA	\$ _____
931.0110	CLEANING AND SWEEPING PAVEMENT (\$ _____) per hundred square yards _____ dollars and _____ cents	561	HSY	\$ _____
932.0100	CUTTING AND MATCHING ASPHALT (\$ _____) per linear foot _____ dollars and	1,993	LF	\$ _____

**BROAD STREET IMPROVEMENTS RESURFACING
PROVIDENCE, RHODE ISLAND**

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
	<i>cents</i>			
932.0210	FULL DEPTH SAWCUT OF BITUMINOUS PAVEMENT AND RIGID BASE (\$ _____) per linear foot	1,767	LF	\$ _____
	<i>dollars and</i>			
	<i>cents</i>			
932.0230	FULL DEPTH SAWCUT OF PORTLAND CEMENT CONCRETE SIDEWALK/DRIVEWAY (\$ _____) per linear foot	2,003	LF	\$ _____
	<i>dollars and</i>			
	<i>cents</i>			
935.0400	REMOVE BITUMINOUS PAVEMENT BY MICROMILLING (\$ _____) per square yard	56,040	SY	\$ _____
	<i>dollars and</i>			
	<i>cents</i>			
936.0100	MOBILIZATION AND DEMOBILIZATION (\$ _____) lump sum	1	LS	\$ _____
	<i>dollars and</i>			
	<i>cents</i>			
937.0200	MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION (\$ _____) lump sum	1	LS	\$ _____
	<i>dollars and</i>			
	<i>cents</i>			
942.0200	DETECTABLE WARNING PANEL STANDARD (\$ _____) per square foot	720	SF	\$ _____
	<i>dollars and</i>			
	<i>cents</i>			
L01.0102	LOAM BORROW - 4" DEEP (\$ _____) per square yard	3	SY	\$ _____
	<i>dollars and</i>			
	<i>cents</i>			

**BROAD STREET IMPROVEMENTS RESURFACING
PROVIDENCE, RHODE ISLAND**

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
L02.0102	RESIDENTIAL SEEDING (TYPE 2) (\$ _____) per square yard _____ <i>dollars and</i> _____ <i>cents</i>	3	SY	\$ _____
L11.0102	TREE PLANT PROTECTION DEVICE (\$ _____) per each _____ <i>dollars and</i> _____ <i>cents</i>	61	EA	\$ _____
L15.9902	PINE BARK MULCH FOR TREE PIT (3" DEPTH) (\$ _____) per square yard _____ <i>dollars and</i> _____ <i>cents</i>	5	SY	\$ _____
T04.5302	14 AWG 2 CONDUCTOR TWISTED SHIELDED CABLE (\$ _____) per linear foot _____ <i>dollars and</i> _____ <i>cents</i>	40	LF	\$ _____
T04.5303	14 AWG 3 CONDUCTOR CABLE (\$ _____) per linear foot _____ <i>dollars and</i> _____ <i>cents</i>	100	LF	\$ _____
T04.5305	14 AWG 5 CONDUCTOR CABLE (\$ _____) per linear foot _____ <i>dollars and</i> _____ <i>cents</i>	100	LF	\$ _____
T05.0200	PRECAST TYPE H HEAVY DUTY HANDHOLE STANDARD 18.2.1 (\$ _____) per each _____ <i>dollars and</i> _____ <i>cents</i>	1	EA	\$ _____
T05.0400	BREAK INTO EXISTING HANDHOLE (\$ _____) per each	5	EA	\$ _____

**BROAD STREET IMPROVEMENTS RESURFACING
PROVIDENCE, RHODE ISLAND**

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
	<i>dollars and</i> _____			
	<i>cents</i> _____			
T05.1030	ADJUST HANDHOLE TO GRADE (\$ _____) per each	31	EA	\$ _____
	<i>dollars and</i> _____			
	<i>cents</i> _____			
T06.5130	3 INCH 40 SCHEDULE POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDERGROU (\$ _____) per linear foot	45	LF	\$ _____
	<i>dollars and</i> _____			
	<i>cents</i> _____			
T11.9901	ADJUST PEDESTAL POLE TO GRADE (\$ _____) per each	1	EA	\$ _____
	<i>dollars and</i> _____			
	<i>cents</i> _____			
T11.9902	REMOVE & RELOCATE PEDESTAL POLE (\$ _____) per each	2	EA	\$ _____
	<i>dollars and</i> _____			
	<i>cents</i> _____			
T13.1000	TRAFFIC DETECTORS-LOOP, STANDARD 19.6.0 (\$ _____) per linear foot	658	LF	\$ _____
	<i>dollars and</i> _____			
	<i>cents</i> _____			
T13.9901	REMOVE & RELOCATE PEDESTRIAN PUSHBUTTON ON POLE (\$ _____) per each	1	EA	\$ _____
	<i>dollars and</i> _____			
	<i>cents</i> _____			
T13.9902	ADJUST PEDESTRIAN PUSHBUTTON VERTICALLY ON POLE (\$ _____) per each	4	EA	\$ _____
	<i>dollars and</i> _____			
	<i>cents</i> _____			

**BROAD STREET IMPROVEMENTS RESURFACING
PROVIDENCE, RHODE ISLAND**

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
T13.9903	EXTENSION BRACKET FOR PEDESTRIAN PUSHBUTTON (\$ _____) per each _____ <i>dollars and</i> _____ <i>cents</i>	2	EA	\$ _____
T15.0100	DIRECTIONAL REGULATORY AND WARNING SIGNS (\$ _____) per square foot _____ <i>dollars and</i> _____ <i>cents</i>	22	SF	\$ _____
T15.2000	PARKING SIGNS (\$ _____) per square foot _____ <i>dollars and</i> _____ <i>cents</i>	2	SF	\$ _____
T20.0706	6 INCH WHITE WATERBORNE PAINT PAVEMENT MARKINGS (\$ _____) per linear foot _____ <i>dollars and</i> _____ <i>cents</i>	39,000	LF	\$ _____
T20.0712	12 INCH WHITE WATERBORNE PAINT PAVEMENT MARKINGS (\$ _____) per linear foot _____ <i>dollars and</i> _____ <i>cents</i>	2,400	LF	\$ _____
T20.0904	4 INCH YELLOW WATERBORNE PAINT PAVEMENT MARKINGS (\$ _____) per linear foot _____ <i>dollars and</i> _____ <i>cents</i>	32,400	LF	\$ _____
T20.2406	6 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS (\$ _____) per linear foot _____	65	LF	\$ _____

**BROAD STREET IMPROVEMENTS RESURFACING
PROVIDENCE, RHODE ISLAND**

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
	_____ <i>dollars and</i> _____ <i>cents</i>			
T20.2412	12 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS (\$ _____) <i>per linear foot</i>	160	LF	\$ _____
	_____ <i>dollars and</i> _____ <i>cents</i>			
T20.2424	24 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS (\$ _____) <i>per linear foot</i>	972	LF	\$ _____
	_____ <i>dollars and</i> _____ <i>cents</i>			
T20.2804	4 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS (\$ _____) <i>per linear foot</i>	46	LF	\$ _____
	_____ <i>dollars and</i> _____ <i>cents</i>			
T20.3416	EPOXY RESIN PAVEMENT MARKING - HELMETED BICYCLIST SYMBOL WITH ARR (\$ _____) <i>per each</i>	1	EA	\$ _____
	_____ <i>dollars and</i> _____ <i>cents</i>			
T20.9901	GREEN FRICTION HIGH VISIBILITY SURFACE (\$ _____) <i>per square foot</i>	360	SF	\$ _____
	_____ <i>dollars and</i> _____ <i>cents</i>			
T20.9905	EPOXY RESIN PAVEMENT MARKING - BICYCLE SYMBOL (\$ _____) <i>per each</i>	1	EA	\$ _____

BROAD STREET IMPROVEMENTS RESURFACING
PROVIDENCE, RHODE ISLAND

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
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_____ *dollars and*

_____ *cents*

SUBTOTAL OF ITEMS IN CONTRACT:

(\$ _____)

_____ *dollars and*

_____ *cents*

SUBTOTAL OF ALLOWANCES:

(\$ _____)

_____ *dollars and*

_____ *cents*

TOTAL OF BID:

(\$ _____)

_____ *dollars and*

_____ *cents*

INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	STANDARD PLAN SYMBOLS & STANDARD LEGEND
3	STANDARD NOTES - 1
4	STANDARD NOTES - 2
5	JOB SPECIFIC SYMBOLS, LEGEND & NOTES
6	TYPICAL SECTIONS
7	KEY PLAN
8-21	GENERAL PLAN NOS. 1-14
22-35	SIGNING AND STRIPING PLAN NOS. 1-14
36-46	TRAFFIC SIGNAL PLAN NOS. 1-11
47-49	DETAILS SHEET NOS. 1-3
50-51	MAINTENANCE AND PROTECTION OF TRAFFIC PLAN NOS. 1-2

CITY OF PROVIDENCE



DEPARTMENT OF PLANNING AND DEVELOPMENT

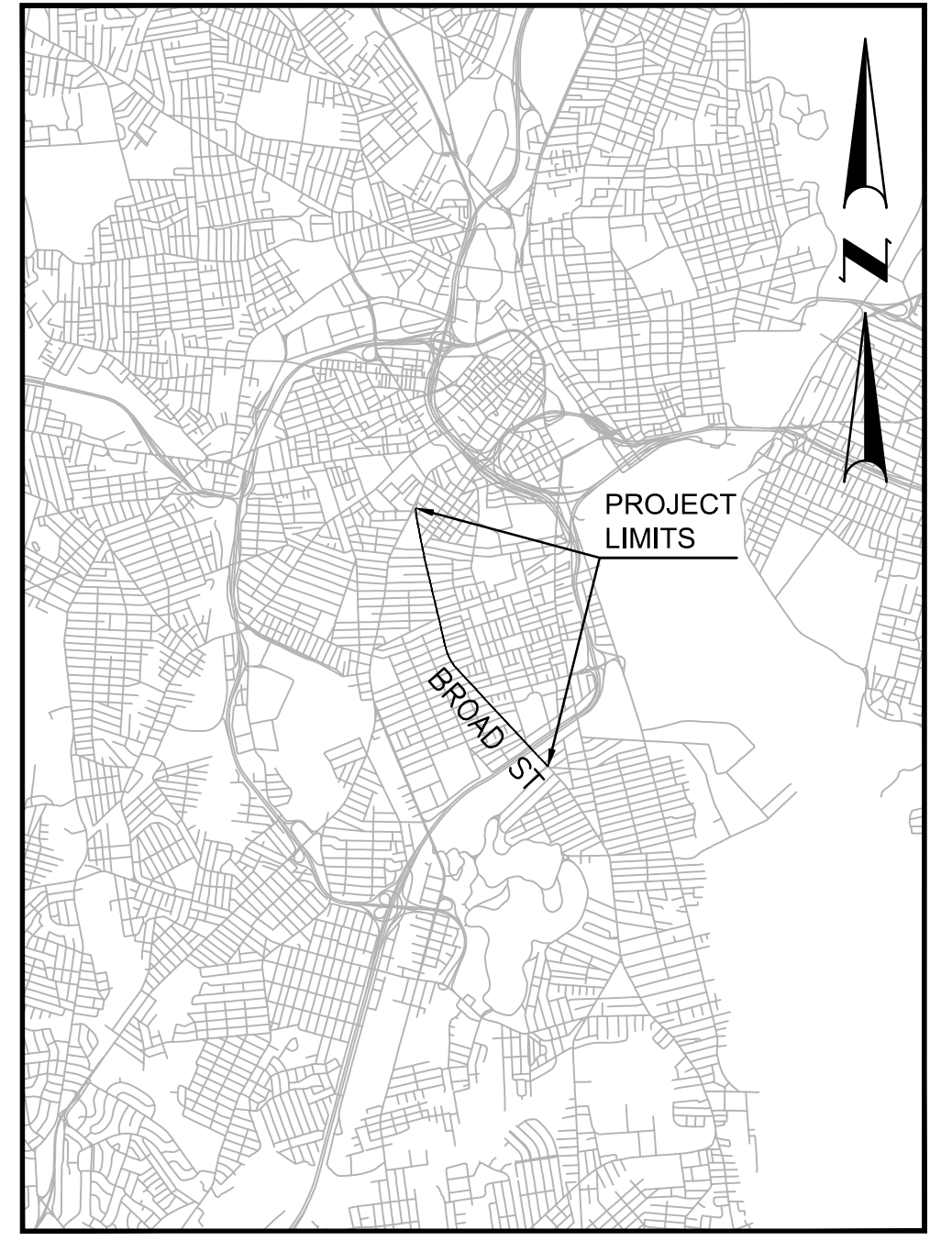
PLAN OF PROPOSED

BROAD STREET IMPROVEMENTS

BROAD STREET (ELMWOOD AVENUE TO HAWTHORNE AVENUE)

CITY OF PROVIDENCE
COUNTY OF PROVIDENCE

R.I. CONTRACT NO. 2018-EC-001 F.A. PROJECT NO. 405-421-868

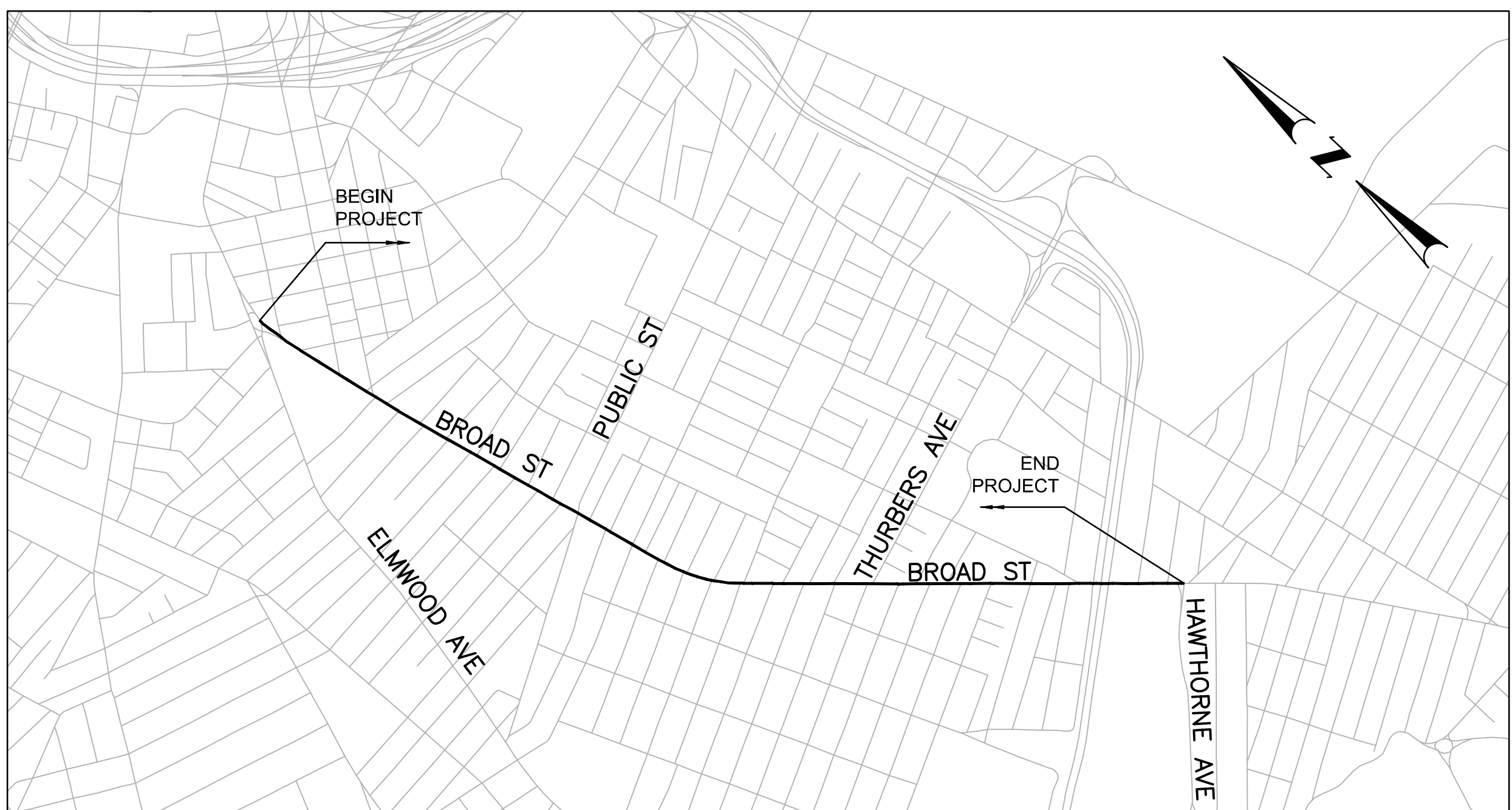


LOCATION MAP
SCALE: 1" = 70'

DESIGN DESIGNATION
BROAD STREET

2016 ADT	11,600 V.P.D.
D	58/42
K	6.9%
DDHV	475 V.P.H.
DHV	798 V.P.H.
SPEED LIMIT	25 M.P.H.

1.61 MILES



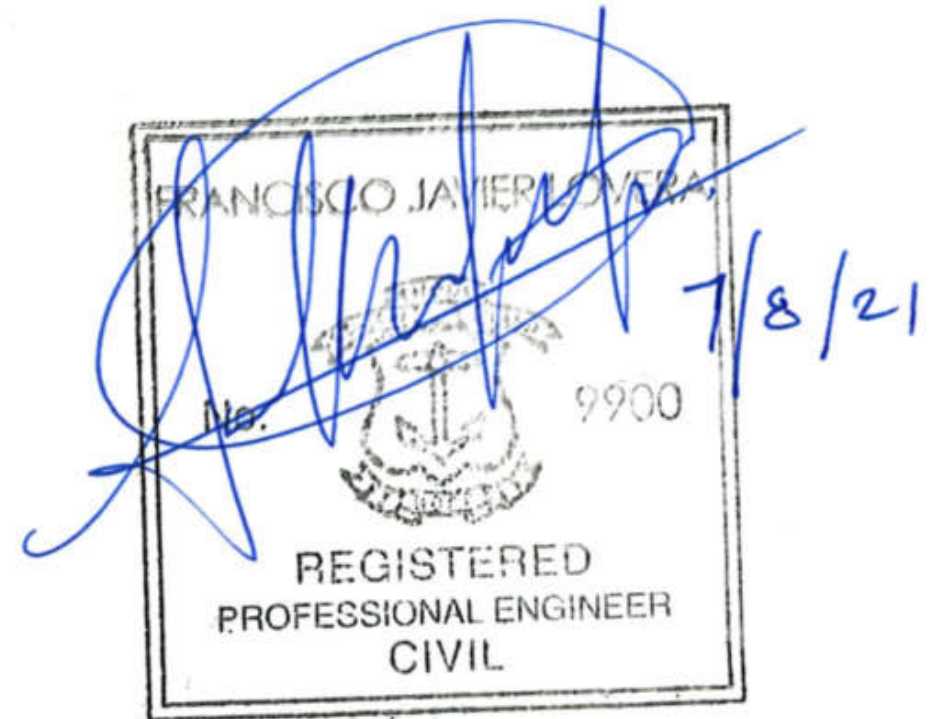
LAYOUT PLAN
SCALE: 1" = 1000'

SCALE OF DRAWINGS
Plans 1 inch = 20 feet

BASE OF LEVELS
NAVD 88

R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED 2018, WITH ALL REVISIONS, AND THE STATE AND FEDERAL SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS. STANDARD DETAILS FOR THIS PROJECT ARE CITY OF PROVIDENCE STANDARD DETAILS, 2017. REFER TO R.I. STANDARD DETAILS, 2019 EDITION, WITH ALL REVISIONS FOR ALL OTHER STANDARD DETAILS.

- PROJECT NOTES:**
- TOTAL AREA OF DEVELOPMENT = ±10 ACRES
 - TOTAL AREA OF SOIL DISTURBANCE = 0.1 ACRE
 - RECEIVING WATERS: NARRAGANSETT BAY COMMISSION COMBINED SEWER



R.I. DEPARTMENT OF TRANSPORTATION	
APPROVED	
ADMINISTRATOR, PROJECT MANAGER	DATE
APPROVED	
CHIEF ENGINEER OF INFRASTRUCTURE	DATE
APPROVED	
DIRECTOR	DATE
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	
DIVISION ADMINISTRATOR	DATE

Contract Number 2018-EC-001
Number of Sheet 1
Total Sheets 51



FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	405-421-868	2021	2	51

EXISTING

NEW

- EDGE OF PAVEMENT
- BERM
- CURB
- GUARDRAIL
- MAILBOX
- UTILITY POLE
- POLE GUY
- LUMINARE
- SIGN
- SUBDRAIN
- STORMDRAIN
- SANITARY SEWER
- WATER MAIN
- GAS MAIN
- TELEPHONE DUCT
- ELECTRIC DUCT
- PLUG AND CAP PIPE
- ABANDONED UTILITY
- FLARED END SECTION
- HEADWALL
- WATER OR GAS GATE
- CATCH BASIN
- MANHOLE
- HYDRANT
- BASELINE OR CENTERLINE
- STATE HIGHWAY LINE
- STATE FREEWAY LINE
- PERMANENT EASEMENT LINE
- TEMPORARY EASEMENT LINE
- PROPERTY LINE
- CITY OR TOWN LINE
- PAVED WATERWAY
- CONTOUR LINE
- OPEN DITCH
- R.I. HIGHWAY BOUND
- STONE BOUND
- RETAINING WALL
- FIELD STONE WALL
- BORINGS
- FENCE
- WOOD OR BRUSH LINE
- TREES
- RIVER OR STREAM
- WETLAND AREA
- BUILDING
- FOUNDATION
- BUILDING TO BE REMOVED
- RAILROAD TRACKS
- CUT AND MATCH
- RIP-RAP
- CUT SLOPE
- FILL SLOPE
- ROCK CUT
- SPOT GRADE
- AREA GRADED TO DRAIN
- BALED HAY RI STD 9.1.0
- BALED HAY & SILT FENCE RI STD. 9.3.0
- EDGE OF WETLAND
- WETLAND PERIMETER
- AREA SUBJECT TO STORM FLOW
- 100-YEAR FLOOD PLAIN
- LIMIT OF DISTURBANCE
- LIMIT OF CLEARING

- 1.1.0
- 1.3.0
- 2.1.0
- 2.2.0
- 2.3.0 (DIA.)
- 3.2.0
- 3.2.1 (DIA.)
- 3.3.0
- 3.3.2
- 3.3.3
- 3.4.0
- 3.4.1
- 3.4.2
- 3.4.3
- 3.4.4
- 3.4.4
- 3.4.5 (DIA.)
- 3.5.0
- 3.5.1 (SIZE)
- 3.6.0
- 3.7.0 (DIA.)
- 4.2.0
- 4.2.1
- 4.2.2
- 4.3.0 (SIZE)
- 4.4.0 (DIA.)
- 4.5.0
- 4.5.1
- 4.5.2
- 5.3.0
- 5.4.0
- 6.1.0
- 6.1.1
- 6.2.0
- 6.2.1
- 6.3.0
- 6.3.1
- 6.3.2
- 6.3.3
- 6.3.3
- 6.4.0
- 7.1.0S
- 7.1.0C
- 7.1.1
- 7.1.2
- 7.1.4
- 7.1.5
- 7.1.6
- 7.1.7
- 7.1.8
- 7.2.0S
- 7.2.0C
- 7.2.1
- 7.2.2
- 7.3.0S
- 7.3.0C
- 7.3.1
- 7.3.2
- 7.3.3
- 7.3.4
- 7.3.5
- 7.3.6
- 7.3.7
- 7.3.8
- 7.4.0
- 7.4.1

- UNDERDRAIN
- CONCRETE CONNECTING COLLAR
- CONCRETE HEADWALLS FOR PIPE CULVERTS
- STANDARD HEADWALLS FOR MULTIPLE 3'-6" TO 7'-0" PIPE CULVERTS
- PRECAST CONCRETE FLARED END SECTION
- BRICK/SOLID BLOCK 4'-0" ROUND MANHOLE
- BRICK/SOLID BLOCK 5'-0" OR 6'-0" ROUND MANHOLE
- BRICK/SOLID BLOCK TYPE "D" SQUARE CATCH BASIN
- BRICK/SOLID BLOCK TYPE "F" SQUARE CATCH BASIN
- SOLID BLOCK FLUSH SQUARE CATCH BASIN
- BRICK/SOLID BLOCK TYPE "D" ROUND CATCH BASIN
- BRICK/SOLID BLOCK ROUND CATCH BASIN WITH GUTTER INLET
- BRICK/SOLID BLOCK TYPE "F" ROUND CATCH BASIN
- BRICK/SOLID BLOCK TYPE "R" CATCH BASIN
- SOLID BLOCK FLUSH ROUND CATCH BASIN
- BRICK/SOLID BLOCK 5'-0" OR 6'-0" ROUND CATCH BASIN
- SOLID BLOCK SHALLOW TYPE "F" SQUARE CATCH BASIN
- SOLID BLOCK SHALLOW 5'-0" OR 6'-0" SQUARE CATCH BASIN
- BRICK/SOLID BLOCK DROP INLET
- BRICK/SOLID BLOCK ROUND MANHOLE OR CATCH BASIN GREATER THAN 12'-0"
- PRECAST 4'-0" ROUND MANHOLE
- PRECAST 5'-0" ROUND MANHOLE
- PRECAST 6'-0" ROUND MANHOLE
- PRECAST 4'-0" OR 6'-0" SQUARE MANHOLE OR CATCH BASIN
- PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN
- PRECAST CONCRETE DROP INLET
- PRECAST CONCRETE DROP INLET LATERAL OUTLET
- PRECAST CONCRETE DROP INLET LONGITUDINAL OUTLET
- CATCH BASIN AND MANHOLE STEP
- CONCRETE COLLARS
- LIGHT-DUTY SQUARE FRAME AND ROUND COVER
- HEAVY DUTY SQUARE FRAME AND ROUND COVER
- LIGHT-DUTY ROUND FRAME AND COVER
- HEAVY-DUTY ROUND FRAME AND COVER
- SQUARE FRAME AND GRATE
- SQUARE FRAME AND GRATE
- SQUARE FRAME AND GRATE (BICYCLE SAFE)
- HIGH CAPACITY FRAME AND GRATE
- HIGH CAPACITY FRAME AND GRATE (BICYCLE SAFE)
- ROUND FRAME AND GRATE
- PRECAST CONCRETE CURB (STRAIGHT)
- PRECAST CONCRETE CURB (CIRCULAR)
- 3'-0" PRECAST CONCRETE TRANSITION CURB
- 6'-0" PRECAST CONCRETE TRANSITION CURB
- PRECAST 2'-0" RADIUS CORNER
- PRECAST CONCRETE INLET STONE (FOR SQUARE CATCH BASIN)
- PRECAST CONCRETE INLET STONE (FOR ROUND CATCH BASIN)
- PRECAST CONCRETE APRON STONE (FOR SQUARE CATCH BASIN)
- PRECAST CONCRETE APRON STONE (FOR ROUND CATCH BASIN)
- PRECAST CONCRETE SLOPED FACE CURB (STRAIGHT)
- PRECAST CONCRETE SLOPED FACE CURB (CIRCULAR)
- PRECAST CONCRETE SLOPED FACE TRANSITION CURB
- PRECAST CONCRETE TRANSITION CURB (VERTICAL FACE TO SLOPED FACE)
- GRANITE CURB (STRAIGHT)
- GRANITE CURB (CIRCULAR)
- 3'-0" GRANITE TRANSITION CURB
- 6'-0" GRANITE TRANSITION CURB
- GRANITE WHEELCHAIR RAMP TRANSITION CURB
- GRANITE 2'-0" RADIUS CORNER
- GRANITE INLET STONE (FOR SQUARE CATCH BASIN)
- GRANITE INLET STONE (FOR ROUND CATCH BASIN)
- GRANITE APRON STONE (FOR SQUARE CATCH BASIN)
- GRANITE APRON STONE (FOR ROUND CATCH BASIN)
- GRANITE SLOPED FACE CURB
- GRANITE SLOPED FACE TRANSITION CURB

- 7.4.2
- 7.5.0
- 7.5.1A
- 7.5.1B
- 7.6.0
- 8.2.0
- 8.3.0
- 8.4.0
- 9.1.0
- 9.2.0
- 9.3.0
- 9.4.0
- 9.5.0
- 9.7.0
- 9.8.0
- 9.9.0
- 10.1.0
- 10.2.0
- 10.3.0
- 10.4.0
- 14.1.0
- 15.1.0
- 15.2.0 (NO.)
- 18.2.0
- 18.2.2
- 18.3.0
- 20.2.0
- 24.6.1
- 26.2.0
- 26.3.0
- 31.1.0
- 31.2.0
- 31.2.1
- 31.3.0
- 34.1.0
- 34.2.0
- 34.2.1
- 34.2.2
- 34.2.3
- 34.2.5
- 34.3.1
- 34.3.2
- 34.3.3
- 34.3.4
- 34.4.0
- 34.4.1
- 40.1.0
- 40.2.0
- 40.2.1
- 40.3.0
- 40.5.0
- 43.1.0
- 43.2.0
- 43.3.0
- 43.3.1
- 43.4.0
- 43.4.1
- 43.5.0
- 48.1.0
- 51.1.0
- 51.1.1
- 51.2.0
- 51.3.0
- 51.4.0

- GRANITE TRANSITION CURB (VERTICAL FACE TO SLOPE FACE)
- BITUMINOUS CONCRETE LIP CURB
- BITUMINOUS BERM (CONSTRUCTION METHOD A)
- BITUMINOUS BERM (CONSTRUCTION METHOD B)
- CURB SETTING DETAIL
- BITUMINOUS CONCRETE DITCH
- RIP-RAP DITCH
- PAVED WATERWAY
- BALED HAY EROSION CHECK
- SILT FENCE DETAIL
- BALED HAY DITCH EROSION CHECK AND SILT FENCE COMBINED
- BALED HAY DITCH AND SWALE EROSION CHECK
- LOG AND HAY CHECK DAM
- DEWATERING BASIN
- BALED HAY CATCH BASIN INLET PROTECTION
- CONSTRUCTION ACCESS
- WET STONE MASONRY RETAINING WALL
- RUBBLE MASONRY WALL
- CONCRETE RETAINING WALL
- STONE MASONRY STEPS
- CONCRETE HIGHWAY BOUND
- POST AND MOUNTINGS FOR RURAL MAILBOX
- POST AND MULTIPLE MOUNTINGS FOR RURAL MAILBOXES
- PRECAST TYPE "A" HANDHOLE
- HEAVY DUTY TYPE "H" HANDHOLE
- ALUMINUM LIGHTING STANDARDS
- BI-DIRECTIONAL CONTROL DEVICE
- STREET SIGN MOUNTING DETAIL
- POLYETHYLENE DRUM WITH MARKINGS
- PVC PLASTIC PIPE TYPE III BARRICADE
- CHAIN LINK FENCE 3'-0" TO 4'-0"
- CHAIN LINK FENCE 5'-0" TO 6'-0"
- CHAIN LINK FENCE 5'-0" TO 6'-0" INTERMEDIATE POST
- WOVEN WIRE RIGHT-OF-WAY FENCE (STEEL POST)
- TYPICAL GUARDRAIL INSTALLATION
- STEEL BEAM GUARDRAIL
- STEEL BEAM GUARDRAIL DETAILS
- STEEL BEAM GUARDRAIL DOUBLE FACED ASSEMBLY
- STEEL BEAM GUARDRAIL FIXTURES
- STEEL BEAM GUARDRAIL REFLECTORIZED TRIANGULAR DELINEATOR
- GUARDRAIL END SECTION
- TERMINAL END SECTION (SINGLE FACE)
- ANCHORAGE DETAILS APPROACH END SECTION
- ANCHORAGE DETAILS TRAILING END SECTION
- STEEL BACKED TIMBER GUARDRAIL
- STEEL BACKED TIMBER GUARDRAIL TERMINAL SECTION-TYPE 1
- DOUBLE-FACED PRECAST MEDIAN BARRIER
- SINGLE-FACED PRECAST MEDIAN BARRIER
- SINGLE-FACED PRECAST MEDIAN BARRIER
- PRECAST MEDIAN BARRIER TRANSITION UNIT
- PRECAST MEDIAN BARRIER FOR TEMPORARY TRAFFIC CONTROL
- CEMENT CONCRETE SIDEWALK
- BITUMINOUS CONCRETE SIDEWALK
- WHEELCHAIR RAMP
- WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS
- DRIVEWAY DEVELOPMENT FOR 3'-0" TRANSITION CURB
- DRIVEWAY DEVELOPMENT FOR 6'-0" TRANSITION CURB
- CEMENT CONCRETE DRIVEWAYS
- DETECTABLE WARNING SYSTEM
- TREE PROTECTION DEVICE
- DRIP LINE TREE PROTECTION DEVICE FOR EXISTING TREES
- SHRUB PROTECTION DEVICE
- TREE WELL
- TREE WALL

- AB
- ABM
- AC
- AD
- AE
- AFC
- AFG
- AG
- AHH
- AS
- AT
- AW
- BCD
- BPS
- CCB
- CCP
- CFP
- CG
- CMH
- CP (DEPTH)
- CPP
- DB
- DC
- DCB
- DDI
- DF
- DFC
- DFE
- DFG
- DFH
- DFP
- DG
- DH
- DHB
- DHH
- DL
- DMB
- DMH
- DMM
- DOW
- DP
- DPB
- DRB
- DS
- DSS
- DSW
- DTD
- DUP
- DWW
- FF
- GET
- IDL
- LOD
- LOR
- LS

- ADJUST CATCH BASIN TO GRADE
- ADJUST CATCH BASIN TO MANHOLE
- ADJUST CURB STOP TO GRADE
- ADJUST DRAINAGE MANHOLE TO GRADE
- ADJUST ELECTRIC MANHOLE TO GRADE
- ADJUST FRAME AND COVER TO GRADE
- ADJUST FRAME AND GRATE TO GRADE
- ADJUST GAS GATE BOX TO GRADE
- ADJUST HANDHOLE TO GRADE
- ADJUST SANITARY SEWER MANHOLE TO GRADE
- ADJUST TELEPHONE MANHOLE TO GRADE
- ADJUST WATER GATE BOX TO GRADE
- BITUMINOUS CONCRETE DRIVEWAY
- 3" BITUMINOUS CONCRETE TYPE 1-2
- 8" GRAVEL BORROW SUBBASE COURSE
- BUILD NEW STRUCTURE OVER EXISTING PIPE
- CLEAN CATCH BASIN
- CUT AND CAP PIPE WITH RESTRAINT (ALL SIZES)
- CLEAN AND FLUSH PIPE
- CLEARING AND GRUBBING
- CLEAN MANHOLE
- COLD PLANE
- CUT AND PLUG PIPE (ALL TYPES, ALL SIZES)
- REMOVE AND DISPOSE BITUMINOUS CURB
- REMOVE AND DISPOSE CONCRETE CURB
- REMOVE AND DISPOSE CATCH BASIN
- REMOVE AND DISPOSE DROP INLET
- REMOVE AND DISPOSE FENCE
- REMOVE AND DISPOSE FRAME AND COVER
- REMOVE AND DISPOSE FLARED END SECTION
- REMOVE AND DISPOSE FRAME AND GRATE
- REMOVE AND DISPOSE FIRE HYDRANT
- REMOVE AND DISPOSE FLEXIBLE PAVEMENT
- REMOVE AND DISPOSE GUARDRAIL
- REMOVE AND DISPOSE HEADWALL
- REMOVE AND DISPOSE HIGHWAY BOUND
- REMOVE AND DISPOSE HANDHOLE
- REMOVE AND DISPOSE LIGHT AND FOUNDATION
- REMOVE AND DISPOSE MEDIAN BARRIER
- REMOVE AND DISPOSE MANHOLE
- REMOVE AND DISPOSE MEDIAN MARKER
- REMOVE AND DISPOSE OBSERVATION WELL
- REMOVE AND DISPOSE PIPE
- REMOVE AND DISPOSE PAVEMENT AND RIGID BASE
- REMOVE AND DISPOSE RIGID BASE
- REMOVE AND DISPOSE SIGN
- REMOVE AND DISPOSE TRAFFIC SIGNAL SYSTEM
- REMOVE AND DISPOSE SIDEWALK
- REMOVE AND DISPOSE TELEPHONE DUCT BANKS
- REMOVE AND DISPOSE UTILITY POLE
- REMOVE AND DISPOSE PAVED WATERWAY
- FILTER FABRIC RIPRAP FLARED END UNDERLAYMENT
- FLARED GUARDRAIL END TREATMENT
- IMPACT ATTENUATOR
- IMPERVIOUS DITCH LINER
- LIMIT OF DISTURBANCE
- LIMIT OF REGRADING
- 4" LOAM AND SEED

- NFH
- NIC
- NWB
- NWVB
- NWCB
- NWSB
- PCD
- PS
- RCB
- RCM
- RHH
- RLP
- RMB
- RPM
- RRP
- RRS
- RUP
- SB
- SBAE
- SBTE
- SD-
- SF
- SGA
- SGC
- SGR
- SH
- SS
- STS
- TB
- TEP
- TNP
- TBT
- TBBC
- TT
- WCM
- 4DY
- 6W
- 12W
- 6WT
- 4Y
- 6Y
- P.G.L.

- NEW FIRE HYDRANT WITH GATE VALVE
- NOT IN THIS CONSTRUCTION CONTRACT
- FURNISH AND INSTALL NEW WATER GATE VALVE BOX
- FURNISH AND INSTALL NEW WATER GATE VALVE AND BOX
- FURNISH AND INSTALL NEW WATER CURB STOP BOX
- FURNISH AND INSTALL NEW WATER CURB STOP AND BOX
- PERMANENT CHECK DAM
- 4" PLANTABLE SOIL AND SEED
- RECONSTRUCT TYPE "D" CATCH BASIN, TO CATCH BASIN WITH GUTTER INLET
- R.I.D.O.T. COMMUNICATIONS MANHOLE
- REMOVE, HANDLE, HAUL, TRIM, RESET CURB EDGING, STRAIGHT, CIRCULAR (ALL TYPES)
- RELOCATE LAMP POST
- RELOCATE MAILBOX (BY OTHERS)
- REMOVE PAVEMENT MARKINGS
- RIP-RAP PAD (SEE DETAIL)
- REMOVE AND RELOCATE SIGN
- RELOCATE UTILITY POLE (BY OTHERS)
- STONE BAFFLE
- STEEL BEAM BRIDGE CONNECTION APPROACH END (W/O NESTED RAIL)
- STEEL BEAM BRIDGE CONNECTION TRAILING END (W/NESTED RAIL)
- STRUCTURAL DISPOSITION - SEE CS PAGES OF SPECIFICATION
- REMOVE AND STOCKPILE FENCE
- SPECIAL GRADED AGGREGATE
- REMOVE AND STOCKPILE GRANITE CURB
- REMOVE AND STOCKPILE GUARDRAIL
- REMOVE AND STOCKPILE HYDRANT
- REMOVE AND STOCKPILE SIGN
- REMOVE AND STOCKPILE TRAFFIC SIGNAL SYSTEM
- CONCRETE THRUST BLOCK
- TIE EXISTING PIPE INTO NEW STRUCTURE
- TIE NEW PIPE INTO EXISTING STRUCTURE
- THREE BEAM TRANSITION
- THREE BEAM BRIDGE CONNECTION
- TREE TRIMMING
- 4" WOOD CHIP MULCH
- 4" EPOXY RESIN PAVEMENT MARKINGS - DOUBLE YELLOW
- 6" EPOXY RESIN PAVEMENT MARKINGS - WHITE
- 12" EPOXY RESIN PAVEMENT MARKINGS - WHITE
- 6" PREFORMED PATTERNED MARKING (HIGH PERFORMANCE TAPE)
- 4" EPOXY RESIN PAVEMENT MARKINGS - YELLOW
- 6" EPOXY RESIN PAVEMENT MARKINGS - YELLOW
- PROFILE GRADE LINE

THIS PLAN SHALL NOT BE ALTERED

REVISIONS		
NO.	DATE	BY

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

 PHASE 2
BROAD STREET IMPROVEMENTS

 PROVIDENCE, RHODE ISLAND

**STANDARD PLAN SYMBOLS &
 STANDARD LEGEND**

CHECKED BY _____ DATE _____ SCALE NO SCALE



FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	405-421-868	2021	3	51

GENERAL NOTES:

- ANY DAMAGE TO EXISTING PAVEMENT, BRIDGES, CONDUIT, SIDEWALK, FENCES, ETC., CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.
- THE CONTRACTOR SHALL PLACE ALL EQUIPMENT AND MATERIAL AS FAR AWAY AS POSSIBLE FROM THE EDGE OF THE TRAVEL LANE SO AS NOT TO CAUSE A SAFETY HAZARD, IN ACCORDANCE WITH SECTION 106.06 OF THE R.I.D.O.T. STANDARD SPECIFICATION, LATEST EDITION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE EXISTING CONDITIONS ARE NOT OBLITERATED BEFORE CONTROL POINTS ARE LOCATED AND CONSTRUCTION LAYOUT IS ESTABLISHED. THE CONSTRUCTION LAYOUT SHALL BE PROVIDED IN SUFFICIENT DETAIL, THEREBY ENABLING HIM TO CONSTRUCT THE PROJECT IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. SURVEY WILL BE PROVIDED BY THE CONTRACTOR. THE RESIDENT ENGINEER WILL NOT AUTHORIZE CONSTRUCTION ACTIVITIES TO BEGIN UNTIL HE IS SATISFIED THAT ALL GROUND CONTROL HAS BEEN ESTABLISHED, TIED DOWN, AND DULY RECORDED IN STANDARD FIELD BOOKS.
- ALL R.I. STD. 9.9.0 CONSTRUCTION ACCESS ROADS SHALL BE CONSTRUCTED PRIOR TO ANY ROADWAY ACCEPTING CONSTRUCTION TRAFFIC.
- THE FREQUENCY AND APPLICATION RATES FOR THE DUST CONTROL ITEMS WILL BE AS DIRECTED BY THE ENGINEER.
- ALL SIDEWALK AND DRIVEWAYS DESIGNATED FOR REPLACEMENT SHALL BE CUT AND MATCHED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- ASPHALT EMULSION TACK COAT SHALL BE PLACED PRIOR TO PAVEMENT PLACEMENT ON THE CONCRETE BASE OR COLD PLANED PAVEMENT, AND ON ANY NEW COURSE WHICH HAS BEEN OPEN TO TRAFFIC, OR ANY NEW COURSE WHICH HAS BEEN EXPOSED FOR MORE THAN 3 DAYS, AND/OR AS DIRECTED BY THE ENGINEER. IT SHALL ALSO BE APPLIED TO VERTICAL PAVEMENT FACES BETWEEN ADJOINING PAVEMENT SECTIONS. ALL APPLICATIONS ON BOTH HORIZONTAL AND VERTICAL SURFACES SHALL BE PAID FOR UNDER THE CONTRACT UNIT BID PRICE FOR CODE 403.0300 "ASPHALT EMULSION TACK COAT."
- THE LIMITS OF CLEARING AND SURFACE DISTURBANCE MUST BE STRICTLY ADHERED TO IN ALL AREAS. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND PLACING, AT HIS OWN EXPENSE, PLANTABLE SOIL AND SEED IN AREAS WHICH ARE OUTSIDE OF THE PROJECT'S AREAS OF DISTURBANCE AND WHICH ARE IMPACTED BY CONSTRUCTION OPERATIONS INCLUDING THOSE AREAS WHERE VEHICLES, EQUIPMENT AND MATERIALS ARE STORED WITH THE PERMISSION OF THE ENGINEER.
- UNDER NO CIRCUMSTANCE WILL THE CONTRACTOR BE ALLOWED TO STOCKPILE REMOVED PAVEMENT MATERIALS WITHIN THE PROJECT LIMITS.
- CLEANING AND SWEEPING OF PAVEMENT WILL INCLUDE REMOVAL OF ALL PAVEMENT DEBRIS PRIOR TO THE PLACEMENT OF EACH BITUMINOUS PAVEMENT LIFT. ALL CLEANING AND SWEEPING SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER.
- PRIOR TO INSTALLATION, ALL SIGNS, MOUNTINGS AND LOCATIONS SHALL BE APPROVED OR MODIFIED BY THE ENGINEER.
- THE COORDINATE SYSTEM IS THE R.I. STANDARD GRID SYSTEM, NAD 83. THE VERTICAL CONTROL IS NGVD 29.
- PAVEMENT OPERATIONS FOR CURBED SECTIONS: IN AREAS WHERE CURBING IS SET TO FINISH LINE AND GRADE, THE CONTRACTOR WILL NOT BE REQUIRED TO UTILIZE THE SENSOR AND SKY-TYPE DEVICE FOR AUTOMATIC GRADE CONTROL, BUT WILL BE ALLOWED TO MANUALLY ADJUST THE BITUMINOUS PAVER FOR CONTROLLING GRADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ROADWAYS FREE OF DEBRIS RESULTING FROM THEIR CONSTRUCTION OPERATIONS. ALL DEBRIS SHALL BE REMOVED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE STATE.
- NO FUEL STORAGE, VEHICLE REFUELING, OR EQUIPMENT STORAGE SHALL TAKE PLACE IN DESIGNATED WETLANDS, NOR WITHIN 100' OF ANY WATER BODY. THIS REQUIREMENT SHALL NOT SUPERSEDE ANY FEDERAL, STATE OR LOCAL LAW, ORDINANCE, RULE OR REGULATION THAT APPLIES TO THE SAME, UNLESS THIS REQUIREMENT IS MORE STRINGENT THAN SAID LAW, ORDINANCE, RULE OR REGULATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT AT THE END OF FINAL PAVING OPERATIONS, FLOW TO EXISTING DRAINAGE STRUCTURES HAS BEEN REESTABLISHED AND THAT NO ISOLATED DEPRESSIONS REMAIN. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS PROVISION; IT SHALL BE CONSIDERED INCIDENTAL TO PAVING AND COLD PLANING OPERATIONS.
- ALL EMBANKMENTS SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 12" (AFTER COMPACTION) AND SHALL BE COMPACTED AS SPECIFIED BEFORE THE NEXT LAYER IS PLACED. ALSO, EMBANKMENT CONSTRUCTION SHALL CONFORM TO SECTION 202.03.2 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- IF THIS PROJECT IS ON A HURRICANE EVACUATION AND DIVERSIONARY ROUTE, AS DESIGNATED ON THE COVERSHEET, THE CONTRACTOR IS ADVISED THAT UPON 12 (TWELVE) HOURS NOTICE THE ROADWAY SHALL BE OPEN TO EVACUEES AND EMERGENCY PERSONNEL. ANY EXTRA WORK NECESSARY TO COMPLY WITH THIS REQUIREMENT WILL BE REIMBURSED UNDER FORCE ACCOUNT PROCEDURES.
- THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE PROVISIONS, CONDITIONS, AND STIPULATIONS STATED IN THE ENVIRONMENTAL APPROVALS ISSUED FOR THE PROJECT FROM THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (RIDEM), AND/OR THE ARMY CORPS OF ENGINEERS (ACOE), AND/OR THE COASTAL RESOURCES MANAGEMENT COUNCIL (CRMC). COPIES OF EACH OF THESE PERMITS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH THESE CONDITIONS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEM(S).
- FOR ALL PROJECTS INVOLVING KNOWN SITE REMEDIATION ISSUES, THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE CONSTRUCTION RELATED PROVISIONS, CONDITIONS, AND STIPULATIONS OF ANY REMEDIAL PLANS DEVELOPED FOR THE PROJECT. COPIES OF THESE DOCUMENTS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH COMPLIANCE WITH THESE DOCUMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEM(S).
- NO UNPROTECTED CONSTRUCTED FEATURE MAY PROJECT MORE THAN 4 INCHES ABOVE THE FINISHED GRADE OF A TRAVERSABLE SLOPE IN A CLEAR ZONE, e.g. HEADWALL, DRAINAGE INLET, ETC.
- THE REMAINING SECTION OR STUB OF A BREAKAWAY BASE MAY NOT PROJECT MORE THAN 4 INCHES ABOVE THE FINISHED GRADE OF A TRAVERSABLE SLOPE IN A CLEAR ZONE, e.g. SIGN POSTS, LIGHT POLES, FIRE HYDRANTS, ETC.

DRAINAGE AND EROSION CONTROL NOTES:

- FOR ALL PROJECTS WITH AT LEAST ONE(1) ACRE OF SOIL DISTURBANCE, R.I.D.O.T. IS REQUIRED TO DEVELOP AND ENFORCE A SITE SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ORDER TO REMAIN IN COMPLIANCE WITH THE RIPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE PROVISIONS, CONDITIONS, AND STIPULATIONS OF THE GENERAL PERMIT AND THE SITE SPECIFIC SWPPP FOR THIS PROJECT. COPIES OF THESE DOCUMENTS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH ADHERENCE TO THE SWPPP SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEM(S).
- NO UNDISTURBED AREAS SHALL BE CLEARED OF EXISTING VEGETATION AFTER OCTOBER 15 OF ANY CALENDAR YEAR OR DURING ANY PERIOD OF FULL OR LIMITED WINTER SHUTDOWN. ALL DISTURBED SOILS EXPOSED PRIOR TO OCTOBER 15 OF ANY CALENDAR YEAR SHALL BE SEEDED OR PROTECTED BY THAT DATE. ANY SUCH AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION, AS DETERMINED BY THE RESIDENT ENGINEER OR ENVIRONMENTAL INSPECTOR, BY NOVEMBER 15 OF ANY CALENDAR YEAR, MUST BE STABILIZED THROUGH THE USE OF EROSION CONTROL MATTING OR HAY MULCH, IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK. IF WORK CONTINUES WITHIN ANY OF THESE AREAS DURING THE PERIOD FROM OCTOBER 15 THROUGH APRIL 15, CARE MUST BE TAKEN TO ENSURE THAT ONLY THE AREA REQUIRED FOR THAT DAY'S WORK IS EXPOSED, AND ALL ERODIBLE SOIL MUST BE RESTABILIZED WITHIN 5 WORKING DAYS. ANY WORK TO CORRECT PROBLEMS RESULTING FROM FAILURE TO COMPLY WITH THIS PROVISION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THERE WILL BE NO SEPARATE PAYMENT FOR THIS PROVISION, IT SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OPERATIONS. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 2 WEEKS OF FINAL GRADING.
- STOCKPILES OF MATERIAL SHALL NOT BE LOCATED WITHIN REGULATED WETLANDS OR BUFFER ZONE AREAS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 30% AND STOCKPILES OF ERODABLE MATERIAL SHALL ALSO BE SEEDED AND RINGED WITH R.I. STD. 9.1.0 TO STABILIZE.
- IF THE PLANS INCLUDE SPECIFIC AREAS FOR PLACEMENT OF CONSTRUCTION DEWATERING BASINS AND/OR EQUIPMENT AND MATERIALS STORAGE AND STOCKPILING, AND IF THE CONTRACTOR ELECTS TO UTILIZE ANY OTHER AREAS FOR THESE PURPOSES, THIS SHALL BE APPROVED BY THE ENGINEER ONLY AFTER OBTAINING ANY NECESSARY PERMITS AND/OR PERMIT MODIFICATIONS FROM THE APPROPRIATE REGULATORY AUTHORITY(IES). ANY PERMITTING REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE ACCOMPLISHED AT NO COST TO THE STATE. THE ENGINEER WILL COORDINATE SUBMISSION OF ANY REQUIRED PERMIT APPLICATION MATERIALS WITH THE R.I.D.O.T. OFFICE OF ENVIRONMENTAL PROGRAMS.
- JUTE MESH SHALL BE USED TO STABILIZE PLANTABLE SOIL AND/OR LOAM IN ALL DITCHES, ON ALL SLOPES ADJACENT TO WETLANDS AND WETLAND PERIMETERS, AND ON ALL SLOPES WITHIN WATER QUALITY BASINS. JUTE MESH IN DITCHES SHALL EXTEND TO AN ELEVATION 2 FEET ABOVE THE BOTTOM OF THE DITCH.
- SEEDING ON ALL SLOPES 3 TO 1 OR STEEPER SHALL CONSIST OF THE FOLLOWING APPLICATIONS UNLESS CHANGED IN THE CONTRACT.
 - SEEDING TYPE I.
 - ADHESIVE MULCH STABILIZER
- UNVEGETATED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR PERIODS IN EXCESS OF 2 WEEKS OR THROUGH THE INACTIVE WINTER SEASON.
- PRIOR TO DRAINAGE AND UTILITY CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION (HORIZONTAL AND VERTICAL) OF ALL EXISTING PIPES AND/OR STRUCTURES WHICH ARE TO BE CONNECTED. ANY VARIATION FOUND FROM THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO DRAINAGE AND UTILITY CONSTRUCTION. WORK CAN COMMENCE ONLY UPON THE ENGINEER'S AUTHORIZATION.
- ALL DRAINAGE AND UTILITY STRUCTURES WITHIN THE PAVED ROADWAY SHALL BE ADJUSTED TO GRADE WITH THE SURROUNDING PAVEMENT PRIOR TO THE WINTER SHUTDOWN.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL THROUGHOUT THE WORK AREA.
- CATCH BASIN RIM GRADES NOTED ON PLANS ARE DEPRESSED 0.1' LOWER THAN THE GUTTER GRADE. RIM ELEVATIONS SHOWN ARE FINAL GRADES. THE CONTRACTOR SHALL PLACE FRAMES AND GRATES 0.1' BELOW THE GRADE CONSTRUCTED IN THIS CONTRACT OR AS DIRECTED BY THE ENGINEER.
- PROVISIONS FOR CLEARING TO ACCESS OUTFALLS DURING THE CLEANING AND FLUSHING OF THE CLOSED DRAINAGE SYSTEM SHALL BE KEPT TO A MINIMUM.
 - ANY VEGETATIVE CLEARING SHALL BE LIMITED TO BRUSH AND TREES LESS THAN 3" DIAMETER.
 - NO HEAVY EQUIPMENT MAY ENCROACH UPON VEGETATED PERIMETER OR RIVERBANK WETLANDS AS WELL AS BIOLOGICAL WETLANDS.
- THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES FOR OUTLET PROTECTION PRIOR TO CLEANING AND FLUSHING STORM WATER DRAINAGE. EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ALL FLUSHED SEDIMENTS ARE REMOVED. AT ALL OUTFALL LOCATIONS WHERE PIPES ARE TO BE CLEANED AND FLUSHED, OUTLET PROTECTION (R.I. STD. 9.1.0 OR 9.3.0) SHALL BE INSTALLED TO TRAP SEDIMENTS. THESE SEDIMENTS SHALL THEN BE REMOVED AND DISPOSED OF LEGALLY BEFORE THE OUTLET PROTECTION DEVICES ARE REMOVED. IF OUTLET PROTECTION AT THE OUTFALL IS NOT FEASIBLE, THEN THE OUTLET PIPE OF THE LAST DRAINAGE STRUCTURE TO BE CLEANED SHALL BE PLUGGED TO CAPTURE ALL MATERIALS FLUSHED FROM PIPES. AFTER THE MATERIALS ARE REMOVED FROM THE DRAINAGE STRUCTURE, THE OUTLET SHALL BE UNPLUGGED TO RESUME NORMAL FUNCTIONING.
- R.I. STD. 9.8.0 BALED HAY INLET PROTECTION SHALL BE INSTALLED AT ALL CATCH BASINS AND INLETS WHENEVER SUBBASE IS EXPOSED, AND SHALL REMAIN IN PLACE UNTIL THE ABUTTING GROUND SURFACES ARE STABILIZED.
- WHERE BALED HAY INLET PROTECTION AND SILT FENCES ARE USED AT CATCH BASINS, THEY SHALL BE REMOVED AT THE END OF THE PROJECT OR AS DIRECTED BY THE ENGINEER IN ORDER TO PREVENT CLOGGING OF THE INLET.

DRAINAGE AND EROSION CONTROL NOTES (CONTINUED):

- DETENTION AND RETENTION BASINS MAY BE ROUGH GRADED AND STABILIZED WITH VEGETATION AND/OR OTHER EROSION CONTROL MEASURES AS REQUIRED BY THE ENGINEER PRIOR TO USE AS TEMPORARY SEDIMENTATION BASINS DURING PROJECT CONSTRUCTION. FINAL BASIN CONSTRUCTION SHALL NOT COMMENCE UNTIL ALL SOURCES OF SEDIMENT HAVE BEEN ELIMINATED, FINAL ROADSIDE VEGETATION IS ESTABLISHED AND USE OF TEMPORARY BASINS IS NO LONGER REQUIRED AS DIRECTED BY THE ENGINEER. ANY ISSUES RELATING TO EROSION AND/OR SEDIMENT TRANSPORT INTO WETLAND AREAS RESULTING FROM SUCH USE OF SEDIMENTATION BASINS DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY CORRECTIVE ACTION REQUIRED TO RESOLVE SUCH ISSUES SHALL BE COMPLETED BY THE CONTRACTOR.
- THE TOE OF ANY FILL SLOPE IS TO REMAIN AT LEAST 1' INSIDE OF ALL EROSION CONTROLS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR COVER ANY PORTION OF THE EROSION CONTROL MEASURES WITH MATERIAL. ANY MATERIAL THAT IS PLACED ON ANY EROSION CONTROLS BY THE CONTRACTOR, OR ANY AGENT OF THE CONTRACTOR, SHALL BE IMMEDIATELY REMOVED BY THE CONTRACTOR, AND ANY NECESSARY REPAIRS TO THE EROSION CONTROLS ACCOMPLISHED.
- PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES, EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AT THOSE AREAS INDICATED ON THE PLANS. CLEARING MAY OCCUR PRIOR TO INSTALLATION OF SUCH CONTROLS, HOWEVER NO GRUBBING, GRADING, FILLING, OR OTHER SOIL DISTURBANCE SHALL OCCUR PRIOR TO INSTALLATION. THE LIMITS OF CLEARING AND SURFACE DISTURBANCE MUST BE STRICTLY ADHERED TO IN ALL AREAS.
- ALL HAY BALES, SILT FENCE OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS IS ESTABLISHED. IF NEEDED, TEMPORARY SEEDING CAN HELP TO MINIMIZE EROSION. TEMPORARY SEED WILL CONFORM TO R.I.D.O.T. STANDARD TEMPORARY SEED MIX.
- THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE STATE.
- THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE SPECIFIED IN SUBSECTION L.02.03 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- ADDITIONAL EROSION CONTROLS, SHALL BE INSTALLED AS DIRECTED BY THE RESIDENT ENGINEER. THESE ADDITIONAL ITEMS WILL BE PAID AT THE UNIT PRICE FOR THAT BID ITEM.

UTILITY NOTES:

- EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. BUILDING SERVICE CONNECTIONS (ELECTRIC, GAS, TELEPHONE, WATER AND SANITARY) ARE NOT SHOWN. CONTRACTOR IS TO ASSUME SERVICES ARE PRESENT TO ALL BUILDINGS.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES BOTH UNDERGROUND AND OVERHEAD BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH CHAPTER 39-1.2 OF THE R.I. GENERAL LAWS ENTITLED "EXCAVATION NEAR UNDERGROUND UTILITY FACILITIES", WITH AMENDMENTS EFFECTIVE AS OF NOVEMBER 1, 2009 AND, WHEN NECESSARY, BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY APPLICABLE CITY, TOWN, STATE OR FEDERAL AGENCY. THE CONTRACTOR SHOULD UNDERSTAND THAT NOT ALL UTILITIES SUBSCRIBE TO THE DIG SAFE PROGRAM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES AND ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO COMMENCING THEIR WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY, SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE STATE.
- ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE CAPPED.
- EXISTING WATER SERVICES SHALL BE RECONNECTED TO THE NEW WATER MAINS.
- UTILITY SERVICE CONNECTIONS SHALL BE MAINTAINED TO ALL EXISTING FACILITIES TO REMAIN.
- FIRE HYDRANTS SHALL NOT BE REMOVED FROM SERVICE WITHOUT WRITTEN AUTHORIZATION FROM THE FIRE DEPARTMENT OR THE WATER AUTHORITY.
- ALL NEW WATER LINES SHALL BE DISINFECTED TO THE SATISFACTION OF THE WATER AUTHORITY IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL UTILITY POLE RELATED WORK SHALL BE BY OTHERS.

THIS PLAN SHALL NOT BE ALTERED

REVISIONS			RHODE ISLAND	
NO.	DATE	BY	DEPARTMENT OF TRANSPORTATION	
			PHASE 2	
			BROAD STREET IMPROVEMENTS	
			PROVIDENCE, RHODE ISLAND	
			STANDARD NOTES - 1	
CHECKED BY _____ DATE _____			SCALE NO SCALE	



FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	405-421-868	2021	4	51

LANDSCAPE NOTES:

- ALL PLANT MATERIAL MUST BE TAGGED AT THE NURSERY (A RECOGNIZED GROWER OF PLANT MATERIAL) IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION. ALL PLANT MATERIAL MUST BE NURSERY GROWN; NO PLANTATION GROWN PLANT MATERIAL WILL BE ACCEPTED.
- ALL PLANT SUBSTITUTIONS AND/OR CHANGES IN PLANT LOCATION MUST BE APPROVED IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- ALL PLANT MATERIAL IS TO BE FIELD LOCATED BY A REPRESENTATIVE FROM THE R.I.D.O.T. LANDSCAPE ARCHITECTURE UNIT.
- A R.I.D.O.T. LANDSCAPE REPRESENTATIVE MUST BE ON SITE TO APPROVE ALL TRIMMING AND CLEARING NECESSARY TO COMPLETE THE WORK AS SHOWN ON THE PLANS.
- ANY TOPSOIL USED AS PLANTABLE SOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS, AND SHALL CONFORM TO SECTION M.18 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- ALL TREES AND SHRUBS SHALL BE MULCHED WITH PINE BARK MULCH IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- ALL TREES AND/OR SHRUBS THAT ARE PLANTED AS A BED SHALL BE MULCHED AS A BED.
- PROVIDE A MINIMUM 6'-8" BRANCHING STANDARD ON ALL TREES INSTALLED ADJACENT TO SIDEWALKS AND/OR PEDESTRIAN ACCESS AREAS.

STRUCTURAL NOTES FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS:

GENERAL

- ALL SUPPORT DESIGNS AND ASSOCIATED SHOP DRAWING REVIEWS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION, OF THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (THE "SPECIFICATIONS"), INCLUDING THE LATEST INTERIM SPECIFICATIONS, EXCEPT AS MODIFIED HEREIN.

CONSTRUCTION DRAWINGS AND DETAILS

- THE FOLLOWING NOTES SHALL BE INCLUDED ON ALL PLANS AND/OR SHOP DRAWINGS IN REFERENCE TO ANCHOR BOLTS:
 - "PRETENSIONING OF ALL ANCHOR NUTS IS REQUIRED, AND SHALL BE ACCOMPLISHED BY TIGHTENING TO 1/6TH TURN BEYOND THE SNUG-TIGHT POSITION."
 - "THE MAXIMUM CLEARANCE BETWEEN THE BOTTOM OF THE LEVELING NUTS AND THE TOP OF THE CONCRETE IS CRITICAL AND SHALL NOT EXCEED THE AMOUNT SPECIFIED ON THIS DRAWING."
- THE USE OF GROUT UNDER BASE PLATES SHALL GENERALLY NOT BE PERMITTED. IF SPECIFIC CONDITIONS WARRANT ITS USE, THE GROUT SHALL NOT BE CONSIDERED LOAD CARRYING; LOADS SHALL BE DIRECTLY SUPPORTED BY THE ANCHOR BOLTS. ADEQUATE DRAINAGE SHALL BE PROVIDED.
- THE DAMPENING EFFECTS OF VIBRATION MITIGATION DEVICES SHALL NOT BE CONSIDERED IN THE DESIGN OF STRUCTURAL SUPPORTS FOR SIGNS AND TRAFFIC SIGNALS. IF THE CONTRACTOR CHOOSES TO USE THESE DEVICES FOR WARRANTY PURPOSES, THE TYPE OF DEVICES PROPOSED SHALL BE APPROVED BY THE DEPARTMENT PRIOR TO FABRICATION OF SUPPORTS.

TRAFFIC SIGNAL NOTES:

- ALL SALVAGED TRAFFIC SIGNAL EQUIPMENT SHALL BE DELIVERED TO THE R.I.D.O.T. MAINTENANCE HEADQUARTERS, 360 LINCOLN AVENUE, WARWICK, RHODE ISLAND, 02888.
- BACK PLATES SHALL BE INSTALLED ON ALL TRAFFIC SIGNAL HEADS.
- THE CONTRACTOR SHALL SUPPLY AND INSTALL ON THE UPPER LEFT HAND CORNER OF THE BACK OF THE CONTROLLER CABINET DOOR A LAMINATED INTERSECTION GRAPHIC AND TABLE DEPICTING THE TRAFFIC DETECTOR RELAY CHANNEL ASSIGNMENTS. THE DIAGRAM SHALL BE A GRAPHIC OF THE INDIVIDUAL INTERSECTION ORIENTED SIMILAR TO THE PLANS SHOWING THE LOCATIONS OF EACH OF THE LOOP DETECTORS. THE DIAGRAM SHALL, AT A MINIMUM, INCLUDE DETECTOR NUMBERS, STREET NAME LABELS, NORTH ARROW, AND CONTROLLER CABINET LOCATION. THE ASSIGNMENT INFORMATION SHALL BE INCLUDED IN A TABLE WHICH SHALL INCLUDE, AT A MINIMUM, THE APPROACH NAME, DETECTOR NUMBER, TERMINAL NUMBER, DETECTOR RACK SLOT NUMBER, RELAY NUMBER, RELAY CHANNEL NUMBER, AND PHASE ASSOCIATED WITH EACH DETECTOR.
- TRAFFIC CONTROLLER CABINETS, UNLESS OTHERWISE NOTED, SHALL BE NEMA TS2 TYPE 1 CABINET SIZE 6 ("P" TYPE) WITH NOMINAL DIMENSIONS OF 52"Hx44"Wx24"D.
- ALL DELAY AND EXTENSION TIMES, AS CALLED FOR ON THE PLANS, FOR PROPOSED LOOP DETECTORS SHALL BE PROGRAMMED IN THE TRAFFIC SIGNAL CONTROLLER AND NOT THE DETECTOR RELAY.
- A BARE GROUND WIRE SHALL BE PLACED IN ALL PVC CONDUITS AND SHALL BE BONDED TO GROUND RODS IN ACCORDANCE WITH SECTION T.03 OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- THE FINAL POSITION OF SIGNAL HEADS, PEDESTRIAN PUSHBUTTONS, DETECTORS, AND STOP LINE AND CROSSWALK PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD ACCORDING TO ACTUAL INTERSECTION CHARACTERISTICS.
- A 2' MINIMUM BUFFER SHALL BE PROVIDED BETWEEN THE CURB AND ALL LATERAL OBSTRUCTIONS (INCLUDING ALL SIGNAL POLES AND TRAFFIC/PEDESTRIAN SIGNAL HEADS) TO PROVIDE ADEQUATE CLEARANCE FOR TURNING VEHICLES.
- ALL FOUNDATIONS MUST HAVE CONES OR BARRELS BOLTED TO FOUNDATION BASES UNTIL ACTUAL POLE IS INSTALLED.
- WHEN PLACING TRAFFIC SIGNAL HANDHOLES OR CONDUIT IN EXISTING PORTLAND CEMENT CONCRETE SIDEWALKS, THE ENTIRE SIDEWALK SQUARE OF CONCRETE SHALL BE REPLACED IN ACCORDANCE WITH R.I. STD. 43.1.0. NO PATCHES WILL BE ALLOWED.
- ALL PEDESTRIAN PUSHBUTTONS SHALL BE COMPLIANT WITH "THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES" (ADAAG) AND SHALL INCLUDE A PRESSURE-ACTIVATED (NON-MOVING) BUTTON. SIGNS APPLICABLE TO PUSHBUTTON ACTUATION SHALL BE INSTALLED SUCH THAT THE CROSSING ASSIGNED TO EACH BUTTON IS CLEARLY INDICATED. IF SITE CONDITIONS DO NOT ALLOW PEDESTRIAN PUSHBUTTONS TO BE INSTALLED WHERE CALLED FOR ON THE PLANS, THE R.I.D.O.T. TRAFFIC ENGINEERING UNIT SHALL BE CONSULTED WITH THROUGH AN R.F.I. PRIOR TO INSTALLING THE PUSHBUTTONS. THE FINAL PLACEMENT OF ALL PEDESTRIAN PUSHBUTTONS SHALL BE IN ACCORDANCE WITH ADAAG AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- ALL LOOP DETECTORS SHALL BE CENTERED WITHIN EACH LANE AS DELINEATED, UNLESS OTHERWISE DIMENSIONED ON PLANS.
- ALL LOOP DETECTORS SHALL BE CUT INTO THE FINAL PAVEMENT SURFACE COURSE.
- TRAFFIC SIGNAL CONTROLLERS SHALL BE WIRED SO THAT ANY FIRE PRE-EMPTION SHALL OVERRIDE MANUAL (PUSH BUTTON) OPERATION.
- THE CONTRACTOR SHALL WORK CONTINUOUSLY TO RESTORE TRAFFIC SIGNAL OPERATION TO ITS INTENDED PURPOSE WHEN REPLACING THE TRAFFIC SIGNAL EQUIPMENT. A POLICE DETAIL IS REQUIRED TO DIRECT TRAFFIC AT THE INTERSECTION AT ALL TIMES WHEN THE TRAFFIC SIGNAL IS INOPERATIVE. AT NO TIME SHALL THE CONTRACTOR LEAVE THE SITE BEFORE RESTORING FULL TRAFFIC OPERATIONS.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

- ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS, CHANNELIZING DEVICES, ETC., SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- ALL SIGN MOUNTINGS FOR TEMPORARY AND CONSTRUCTION SIGNS SHALL BE IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- THE CONTRACTOR SHALL COVER ALL EXISTING AND/OR TEMPORARY SIGNS THAT ARE NOT RELEVANT TO THE TRAFFIC CONTROL REQUIRED DURING ANY PARTICULAR STAGE OF THE CONTRACT.
- ADVANCE FLAGPERSON SIGNS (W20-7A) SHALL BE USED IN ADVANCE OF ANY POINT AT WHICH A FLAGPERSON OR A POLICE OFFICER HAS BEEN STATIONED TO CONTROL TRAFFIC. WHEN NEEDED, AN APPROPRIATE DISTANCE MESSAGE MAY BE DISPLAYED ON A SUPPLEMENTAL PLATE (24"x18") BELOW THE FLAGPERSON SYMBOL SIGN. THE SIGN SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE FLAGPERSON IS NOT AT THE STATION.
- POLICE OFFICERS (AND NOT FLAGPERSONS) SHALL BE UTILIZED WHEN WORK WILL IMPACT SIGNALIZED INTERSECTIONS AND LIMITED ACCESS HIGHWAYS.
- POLYETHYLENE DRUMS SHALL BE UTILIZED AS A CHANNELIZING DEVICE WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN BEYOND WORKING HOURS WHEN NO WORKERS ARE PRESENT. CONES SHALL BE UTILIZED WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN ONLY DURING WORKING HOURS AND IS SUBSEQUENTLY BROKEN DOWN AT THE END OF THE WORKDAY.
- ARROW PANELS SHALL BE SET IN THE FLASHING FOUR CORNERS CAUTION MODE UNLESS UTILIZED FOR A MERGING TAPER. ARROW PANELS SET IN THE FLASHING ARROW MODE SHALL NOT BE UTILIZED FOR LANE SHIFTS.
- TEMPORARY CONSTRUCTION SIGNS AND OTHER WORKZONE TRAFFIC CONTROL DEVICES THAT ARE DAMAGED OR REQUIRE RELOCATION SHALL BE REPLACED AND / OR RELOCATED UNDER THE PAY ITEM FOR "MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION."
- THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS SHALL NOT BE PARKED ON THE TRAVEL LANES OR SHOULDERS. THEY MAY BE PARKED WITHIN THE STATE RIGHT-OF-WAY ONLY IN AREAS 30' BEYOND THE OUTSIDE EDGE OF THE TRAVEL LANES AND/OR IN AREAS APPROVED BY THE ENGINEER.
- TEMPORARY CONSTRUCTION SIGNS AND OTHER TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC, AND SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER APPROPRIATE.
- THE INTENDED VEHICLE PATHS THROUGH EACH WORK ZONE SHALL BE CLEARLY MARKED AT ALL TIMES. WATERBORNE PAVEMENT MARKINGS SHALL BE INSTALLED BEFORE THE END OF THE WORK SHIFT ON ALL COLD-PLANNED AND NEW ROADWAY SURFACES THAT WILL BE OPENED TO TRAFFIC AT THE END OF THE SHIFT.

THIS PLAN SHALL NOT BE ALTERED

REVISIONS			RHODE ISLAND	
NO.	DATE	BY	DEPARTMENT OF TRANSPORTATION	
			PHASE 2	
			BROAD STREET IMPROVEMENTS	
			PROVIDENCE, RHODE ISLAND	
			STANDARD NOTES - 2	
			CHECKED BY _____ DATE _____ SCALE NO SCALE	



JOB SPECIFIC PLAN SYMBOLS:

EXISTING	NEW
TRAFFIC SEPARATOR CURB	=
FLEXIBLE DELINEATOR POST	•

JOB SPECIFIC LEGEND:

	PROVIDENCE STANDARD RECTANGULAR FRAME AND GRATE
	PROVIDENCE STANDARD GRANITE 3'-0" TRANSITION CURB, R.I. STD. 7.3.1 MODIFIED (7")
	PROVIDENCE STANDARD GRANITE 6'-0" TRANSITION CURB, R.I. STD. 7.3.2 MODIFIED (7")
	PROVIDENCE STANDARD GRANITE TRANSITION CURB, R.I. STD. 7.3.3 MODIFIED (7")
	PROVIDENCE STANDARD GRANITE RAMP STONE, R.I. STD. 7.3.9 MODIFIED (7")
	PROVIDENCE STANDARD CEMENT CONCRETE DRIVEWAY
	2' BUFFER
	TWO-WAY LEFT TURN BOX
	4" EPOXY RESIN PAVEMENT MARKINGS – BROKEN DOUBLE YELLOW – 2' LINE WITH 4' SPACE
	4" TEMPORARY PAVEMENT MARKINGS – BROKEN DOUBLE YELLOW – 2' LINE WITH 4' SPACE
	4" EPOXY RESIN PAVEMENT MARKINGS – BROKEN YELLOW – 3' LINE WITH 9' SPACE
	4" TEMPORARY PAVEMENT MARKINGS – DOUBLE YELLOW
	6" EPOXY RESIN PAVEMENT MARKINGS – BROKEN WHITE – 2' LINE WITH 4' SPACE
	6" EPOXY RESIN PAVEMENT MARKINGS – DIAGONAL WHITE WITH 10' O.C. CROSS HATCHING AT 45° ANGLES
	6" EPOXY RESIN PAVEMENT MARKINGS – DIAGONAL YELLOW WITH 10' O.C. CROSS HATCHING AT 45° ANGLES
	ABANDON EXISTING SIGNAL HANDHOLE
	ADJUST PEDESTRIAN PUSHBUTTON VERTICALLY ON POLE
	EPOXY RESIN PAVEMENT MARKING LEGEND "BIKE" TEXT
	URBAN TRAIL LANE PAVEMENT MARKINGS – SEE DETAILS SHEET NO. 1
	EPOXY RESIN PAVEMENT MARKING LEGEND "BUS" TEXT
	BICYCLE YIELD LINE – SEE DETAILS SHEET NO. 2
	COMPOST FILTER SOCK INLET SEDIMENT CONTROL DEVICE – SEE DETAILS SHEET NO. 1
	CROSSWALK DETAIL – 24" EPOXY RESIN PAVEMENT MARKINGS WITH 24" SPACES – WHITE – SEE DETAILS SHEET NO. 1
	8' CONTINENTAL STYLE CROSSWALK FOR TWO-WAY SEPARATED BIKE LANE – SEE DETAILS SHEET NO. 1
	FLOATING BUS STOP – SEE DETAILS SHEET NO. 3
	FLEXIBLE DELINEATOR POST – SEE DETAILS SHEET NO. 3
	GRANITE CURB PROVIDENCE STANDARD 7" CIRCULAR – SEE DETAILS SHEET NO. 3
	GRANITE CURB PROVIDENCE STANDARD 7" STRAIGHT – SEE DETAILS SHEET NO. 3
	EPOXY RESIN PAVEMENT MARKING ARROW – LEFT R.I. STD 20.1.0
	LOWER BACK OF SIDEWALK UP TO 2" TO OBTAIN AN ADA-COMPLIANT RAMP AND LANDING AREA
	MODIFY TREE PIT WITH PINE BARK MULTCH
	EPOXY RESIN PAVEMENT MARKING LEGEND "ONLY" TEXT
	EPOXY RESIN PAVEMENT MARKING ARROW – RIGHT R.I. STD 20.1.0
	REMOVE, STOCKPILE, AND RESET OR RELOCATE BIKE HITCH
	REMOVE AND RELOCATE CURB RETURN
	REMOVE AND RELOCATE PEDESTAL POLE
	RAISE RAMP STONE ELEVATION UP TO 2" TO OBTAIN AN ADA-COMPLIANT RAMP AND LANDING AREA
	SPECIAL CURB RAMP 1 – SEE DETAILS SHEET NO. 3
	SPECIAL CURB RAMP 2 – SEE DETAILS SHEET NO. 3
	SPECIAL CURB RAMP 3 – SEE DETAILS SHEET NO. 3
	SPECIAL CURB RAMP 4 – SEE DETAILS SHEET NO. 3
	REMOVE, SALVAGE, AND DELIVER FRAME AND GRATE
	REMOVE & SALVAGE TRAFFIC SIGNAL EQUIPMENT
	SILT SACK – SEE DETAILS SHEET NO. 1
	URBAN TRAIL MARKINGS – SEE DETAILS SHEET NO. 1
	TRAFFIC SEPARATOR CURBS – SEE DETAILS SHEET NO. 2
	YIELD LINE – SEE DETAILS SHEET NO. 2

GENERAL NOTES:

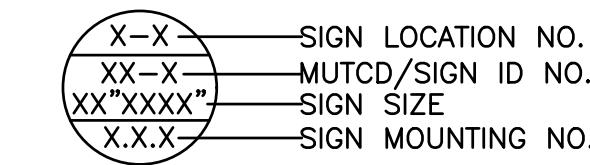
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, REGULATIONS AND SAFETY CODES IN THE CONSTRUCTION OF ALL IMPROVEMENTS. SIGN AND STRIPING WORK SHALL ALSO MEET ALL APPLICABLE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). BASE MAPPING WAS PREPARED FROM GIS DATA PROVIDED BY THE CITY OF PROVIDENCE AND UPDATED BASED ON FIELD OBSERVATIONS. TOPOGRAPHIC SURVEY, DATED FEBRUARY 2, 2018, WAS PROVIDED ON BROAD STREET BETWEEN ELMWOOD AVENUE AND SARATOGA STREET. ADDITIONAL TOPOGRAPHIC SURVEY WAS OBTAINED IN DECEMBER 2019 AT SPOT LOCATIONS ON BROAD STREET, BETWEEN SARATOGA STREET AND HAWTHORNE AVENUE.
- THE CONTRACTOR SHALL VERIFY BASE MAPPING IN THE FIELD PRIOR TO PLACING STRIPING OR SYMBOLS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO START OF WORK. WHEN THESE PLANS ARE IN CONFLICT WITH ACTUAL SITE CONDITIONS, PROPOSED STRIPING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, GRADING, SIDEWALKS, AND FEATURES OUTSIDE OF THE LIMITS OF WORK AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AS DIRECTED BY THE ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE ANY SUCH OR OTHER DAMAGE SO CAUSED AT NO ADDITIONAL COST.
- ALL EXISTING CURB RAMP LOCATIONS SHOWN ARE APPROXIMATE. EXISTING CURB RAMPS HAVE NOT BEEN REVIEWED FOR ADA COMPLIANCE.

GENERAL NOTES - SIGNS:

- SIGN MOUNTINGS SHALL BE R.I. STD. 24.1.0 UNLESS OTHERWISE NOTED.
- ALL SIGNS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 7' OVER THE SIDEWALK.
- ALL SIGN RADII AND BORDERS SHALL BE AS SPECIFIED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS AMENDED.
- NO MATERIALS SHALL BE STOCKPILED WITHIN THE RIGHT OF WAY. ALL STOCKPILES (INCLUDING PORTABLE RESTROOMS) SHALL BE OFF OF THE STREET BY THE END OF THE DAY.
- THE PROPOSED W11-2M AND W16-7pM SIGNS AT CROSSWALKS SHALL BE FLORESCENT YELLOW-GREEN TO BE MORE VISIBLE.

TRAFFIC SIGNAL NOTES:

- ALL PROPOSED TRAFFIC SIGNAL WORK SHALL CONFORM TO THE PROVIDENCE TRAFFIC SIGNAL SPECIFICATIONS.
- ALL SALVAGED MATERIALS, INCLUDING TRAFFIC SIGNAL EQUIPMENT, SHALL BE DELIVERED TO THE PROVIDENCE DEPARTMENT OF PUBLIC WORKS AT 700 ALLENS AVENUE, PROVIDENCE, RI 02905. THE RIDOT MAINTENANCE DELIVERY LOCATION SHOWN IN THE STANDARD NOTES DOES NOT APPLY TO THIS PROJECT.

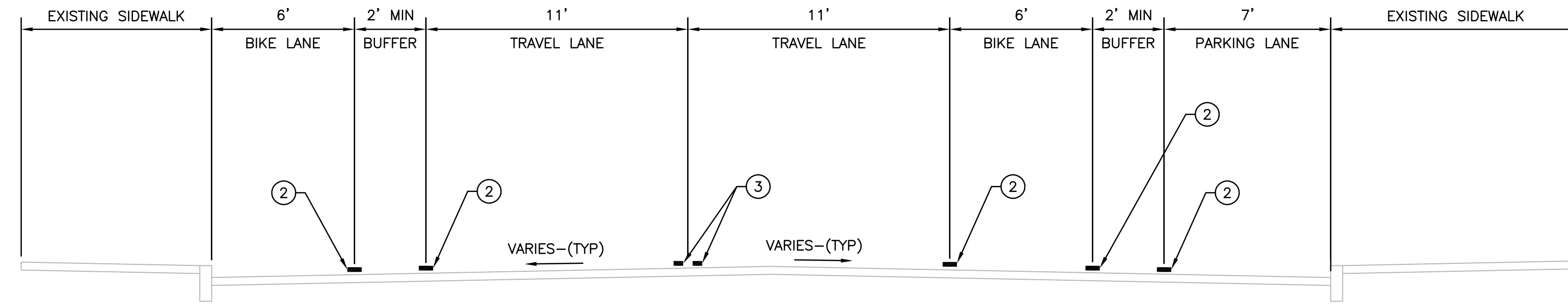
JOB SPECIFIC PROPOSED SIGN:

GRADING LEGEND:

BC	BOTTOM OF CURB
CR	CURB RAMP
CRBC	CURB RAMP BOTTOM OF CURB
DW	DRIVEWAY
ME	MATCH EXISTING
SW	SIDEWALK
TC	TOP OF CURB

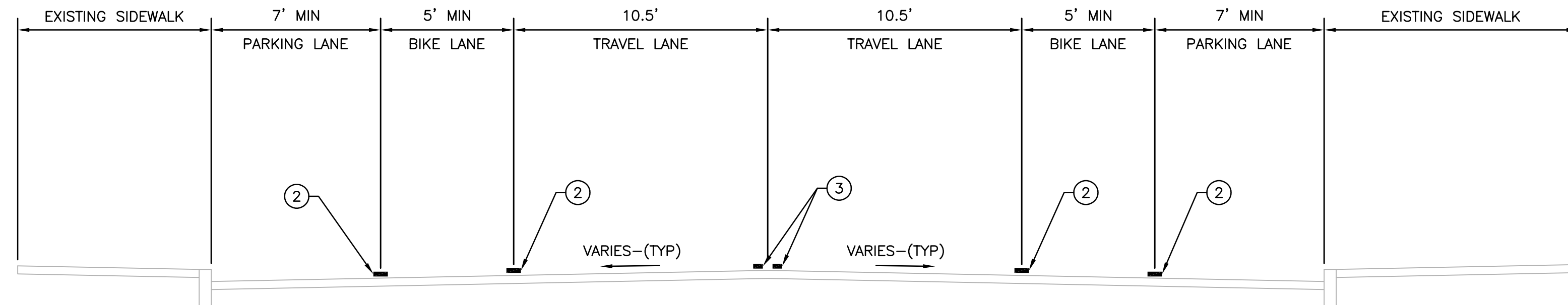
REVISIONS		
NO.	DATE	BY

RHODE ISLAND	
DEPARTMENT OF TRANSPORTATION	
PHASE 2	
BROAD STREET IMPROVEMENTS	
PROVIDENCE, RHODE ISLAND	
JOB SPECIFIC SYMBOLS, LEGEND & NOTES	
CHECKED BY _____	DATE _____ SCALE 1"=20'

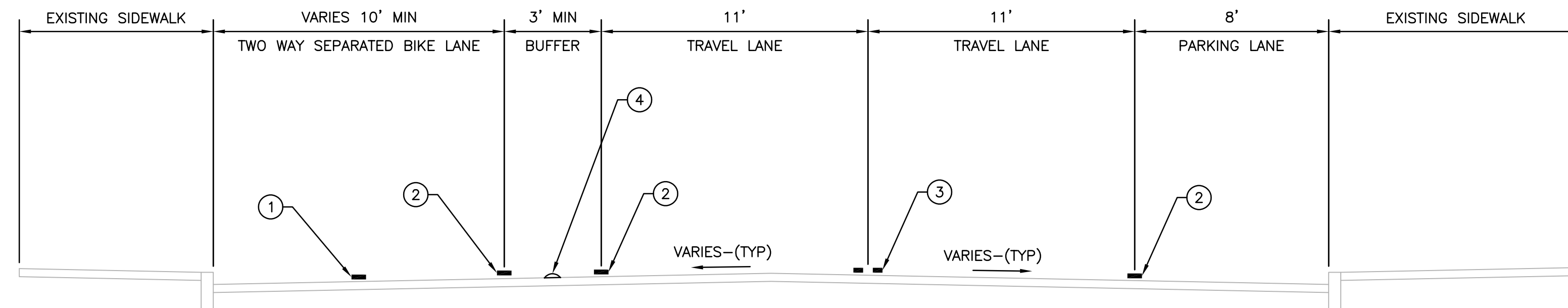




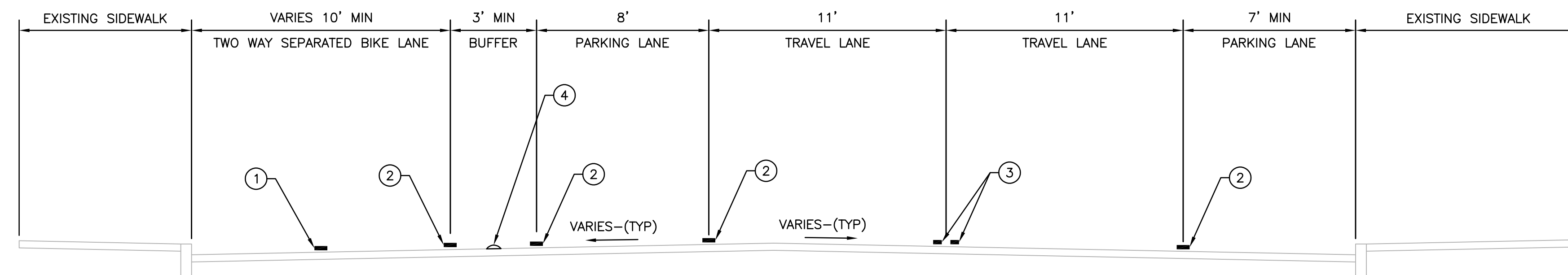
BROAD STREET
ELMWOOD AVENUE TO FRIENDSHIP STREET
 NOT TO SCALE



BROAD STREET
FRIENDSHIP STREET TO PLENTY STREET
 NOT TO SCALE



BROAD STREET
PLENTY STREET TO PRINCETON AVENUE
 NOT TO SCALE



BROAD STREET
PRINCETON AVENUE TO HAWTHORNE AVENUE
 NOT TO SCALE

LEGEND

- ① 4" EPOXY RESIN PAVEMENT MARKINGS - 3' LINE WITH 9' SPACING - YELLOW
- ② 6" EPOXY RESIN PAVEMENT MARKINGS - WHITE
- ③ 4" EPOXY RESIN PAVEMENT MARKINGS - DOUBLE YELLOW
- ④ TRAFFIC SEPARATOR CURB

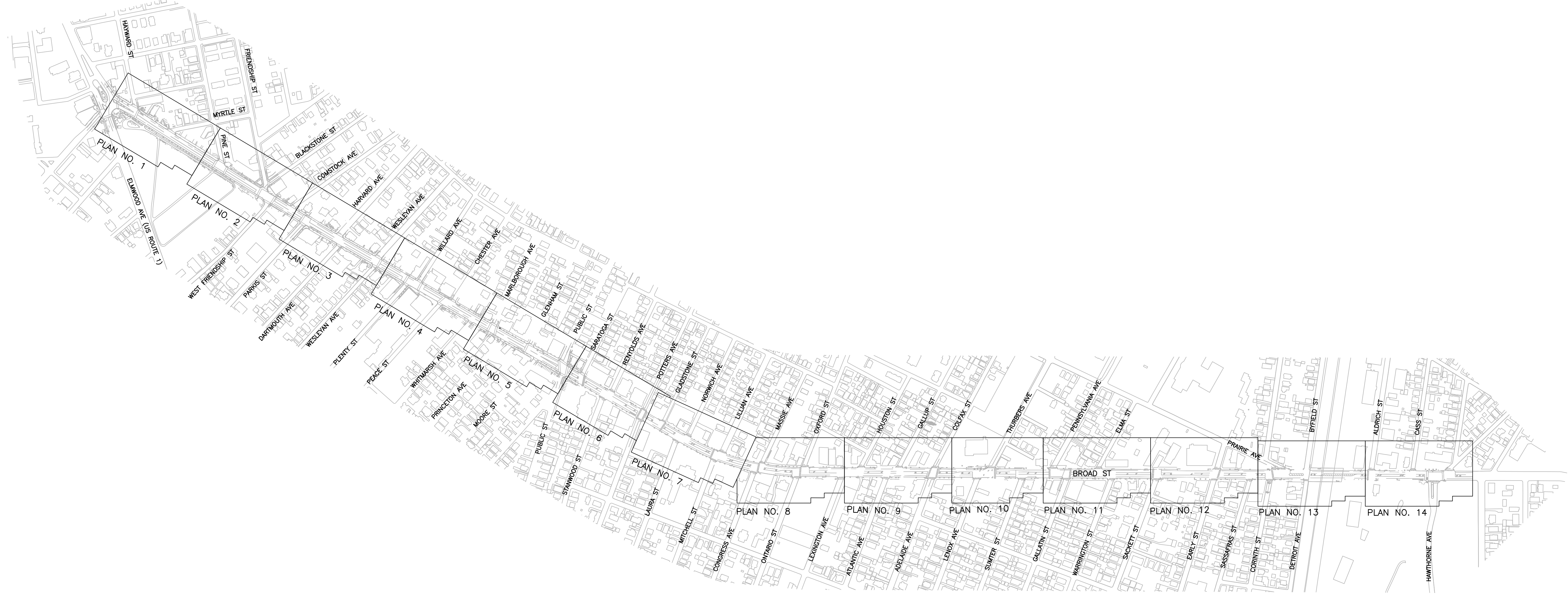
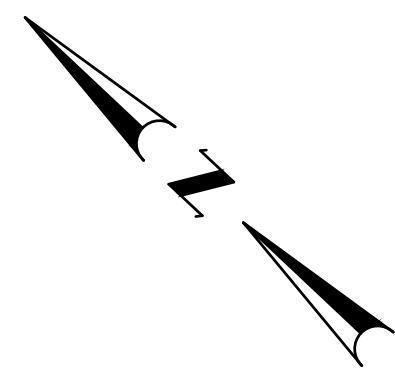
NOTES

1. LATERAL PLACEMENT OF PAVEMENT MARKINGS ARE MEASURED TO:
 - A. ADJACENT FACE OF CURB
 - B. CENTERLINE OF LANE LINES
 - C. CENTER OF DOUBLE YELLOW CENTERLINES (OR ROADWAY)
2. LONGITUDINAL PAVEMENT MARKING DIMENSIONS ARE TYPICALLY MEASURED TO EXISTING OR PROPOSED PAVEMENT MARKING CROSSWALKS OR STOP LINES OR PERPENDICULAR FACES OF CURB AS SHOWN ON THE SIGNING AND STRIPING PLANS.
3. TRAVEL, BICYCLE, AND PARKING LANE WIDTHS ARE AS SHOWN ON THE SIGNING AND STRIPING PLANS.
4. THE USE OF DOTTED OR SOLID LINES IS AS SHOWN ON THE SIGNING AND STRIPING PLANS.
5. REFER TO DETAILS SHEET NO. 2 FOR TRAFFIC SEPARATOR CURB DETAIL.

REVISIONS		
NO.	DATE	BY

RHODE ISLAND DEPARTMENT OF TRANSPORTATION		
PHASE 2 BROAD STREET IMPROVEMENTS		
PROVIDENCE, RHODE ISLAND		
TYPICAL SECTIONS		
CHECKED BY _____	DATE _____	SCALE _____





REVISIONS		
NO.	DATE	BY

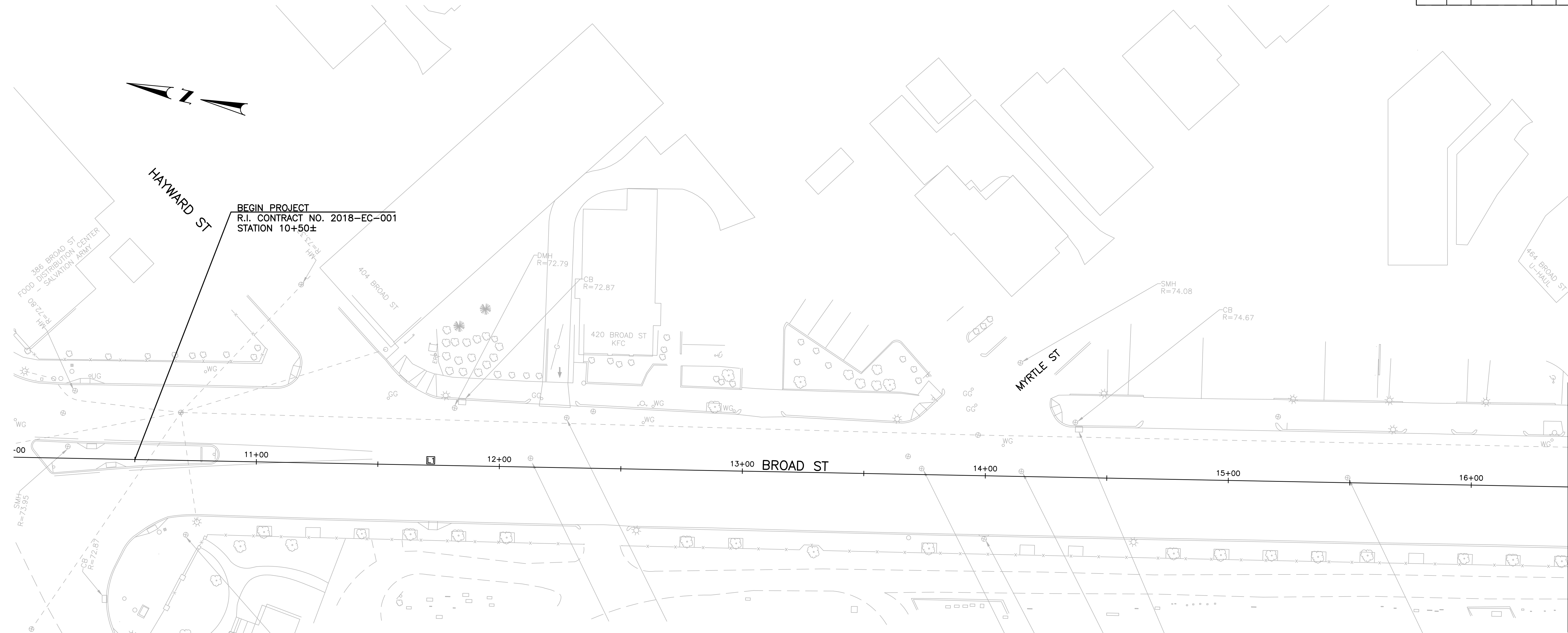
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

PHASE 2
BROAD STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

KEY PLAN

CHECKED BY _____ DATE _____ SCALE 1"=300'



BEGIN PROJECT
R.I. CONTRACT NO. 2018-EC-001
STATION 10+50±

MATCH LINE GENERAL PLAN NO. 2

CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD
C1	8.00'	5.08'	2.63'	36°23'00"	5.00'
C2	2.00'	3.14'	2.00'	90°00'00"	2.83'
C3	2.00'	3.14'	2.00'	90°00'00"	2.83'
C4	2.00'	3.14'	2.00'	90°00'00"	2.83'
C5	2.00'	3.14'	2.00'	90°00'00"	2.83'
C6	2.00'	3.14'	2.00'	90°00'00"	2.83'
C7	2.00'	3.14'	2.00'	89°57'54"	2.83'
C8	2.00'	3.14'	2.00'	90°02'06"	2.83'
C9	2.00'	3.14'	2.00'	90°00'00"	2.83'
C10	2.00'	3.14'	2.00'	90°00'00"	2.83'
C11	2.00'	3.14'	2.00'	90°00'00"	2.83'
C12	2.00'	3.14'	2.00'	90°00'00"	2.83'

CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD
C13	2.00'	3.14'	2.00'	90°00'00"	2.83'
C14	2.00'	3.14'	2.00'	89°56'09"	2.83'
C15	2.00'	3.14'	2.00'	90°03'51"	2.83'
C16	2.00'	3.14'	2.00'	90°00'00"	2.83'
C17	2.00'	3.14'	2.00'	90°00'00"	2.83'
C18	2.00'	3.14'	2.00'	89°55'01"	2.83'
C19	2.00'	3.14'	2.00'	90°04'59"	2.83'
C20	2.00'	3.14'	2.00'	90°00'00"	2.83'
C21	2.00'	3.14'	2.00'	90°00'00"	2.83'
C22	25.00'	16.16'	8.37'	37°01'34"	15.88'
C23	20.00'	21.57'	11.97'	61°47'38"	20.54'
C24	50.00'	21.10'	10.71'	24°10'37"	20.94'

NO.	LENGTH	BEARING	START STATION	END STATION
L1	1294.62'	S11° 20' 50.9"E	10+00.00 (Broad Street)	22+94.62
L2	2353.63'	S13° 13' 46.7"E	26+23.12 (Broad Street)	49+76.75
L3	3995.90'	S42° 55' 29.0"E	57+02.34 (Broad Street)	96+98.24

CURVE	RADIUS	LENGTH	TANGENT	DELTA	CHORD	POINT OF INTERSECTION		POINT OF CURVATURE		CENTER POINT		POINT OF TANGENCY		START STATION	END STATION
						N	E	N	E	N	E	N	E		
BLC-1	10000.00'	328.50'	164.26'	1°52'56"	328.48'	N 264389.56'	E 349685.96'	N 264550.61'	E 349653.64'	N 266518.20'	E 359458.16'	N 264229.66'	E 349723.55'	22+94.62	26+23.12
BLC-2	1400.00'	725.59'	371.14'	29°41'42"	717.49'	N 261577.20'	E 350347.12'	N 261938.49'	E 350262.19'	N 262258.88'	E 351625.03'	N 261305.43'	E 350599.88'	49+76.75	57+02.34

NOTE:
 1. ALL STORM DRAINS RECEIVING SEDIMENT-LADEN FLOW MUST BE PROTECTED WITH SILT SACK OR COMPOST FILTER SOCK. SEE DETAIL SHEET.
 2. CONTRACTOR TO COORDINATE WITH PROVIDENCE DPW TO RELOCATE BIKE STATIONS.

GRADING LEGEND:
 BC BOTTOM OF CURB
 CR CURB RAMP
 CRBC CURB RAMP BOTTOM OF CURB
 DW DRIVEWAY
 ME MATCH EXISTING
 SW SIDEWALK
 TC TOP OF CURB

REVISIONS		
NO.	DATE	BY

**RHODE ISLAND
DEPARTMENT OF TRANSPORTATION**

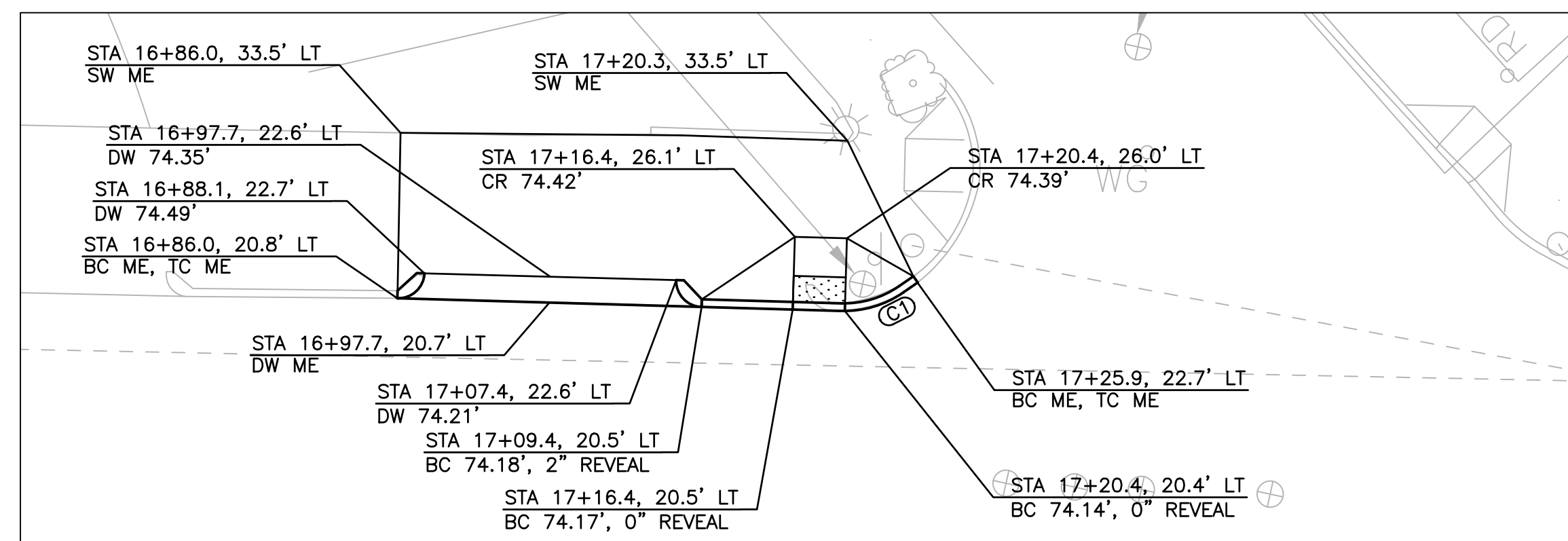
**PHASE 2
BROAD STREET IMPROVEMENTS**

PROVIDENCE, RHODE ISLAND

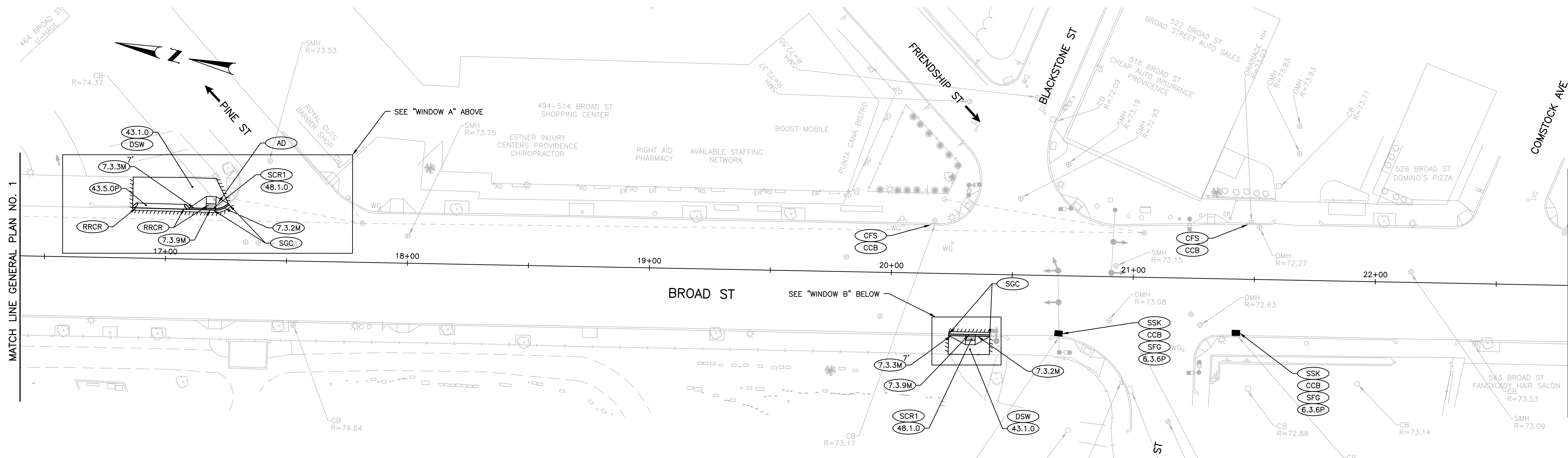
**GENERAL PLAN
NO. 1**

CHECKED BY _____ DATE _____ SCALE 1"=20'





WINDOW A
SCALE 1"=10'

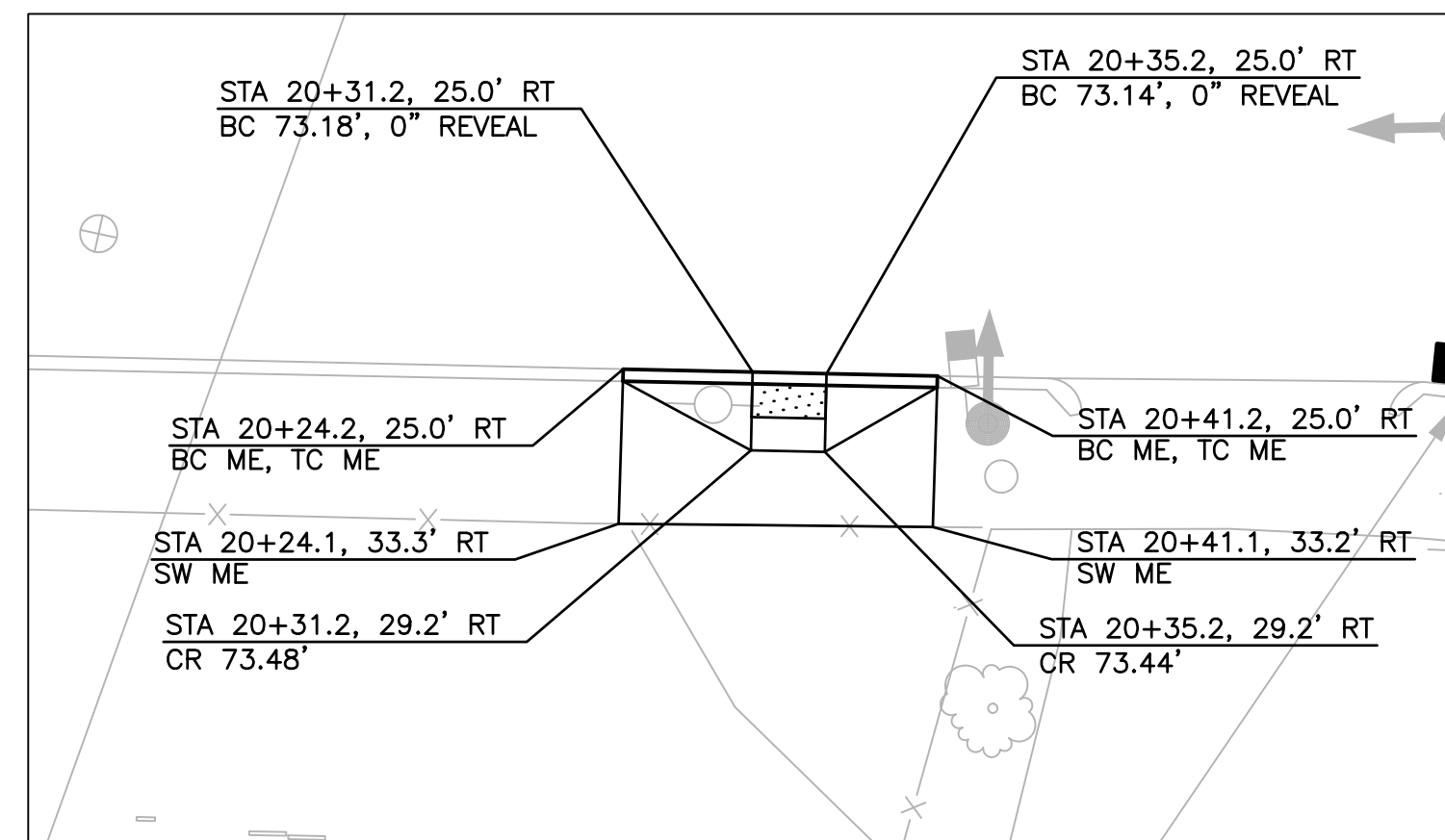


MATCH LINE GENERAL PLAN NO. 1

MATCH LINE GENERAL PLAN NO. 3

- GRADING LEGEND:**
- BC BOTTOM OF CURB
 - CR CURB RAMP
 - CRBC CURB RAMP BOTTOM OF CURB
 - DW DRIVEWAY
 - ME MATCH EXISTING
 - SW SIDEWALK
 - TC TOP OF CURB

NOTE:
ALL STORM DRAINS RECEIVING SEDIMENT-LADEN FLOW MUST BE PROTECTED WITH SILT SACK OR COMPOST FILTER SOCK. SEE DETAIL SHEET.



WINDOW B
SCALE 1"=10'



REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

PHASE 2
BROAD STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

GENERAL PLAN
NO. 2

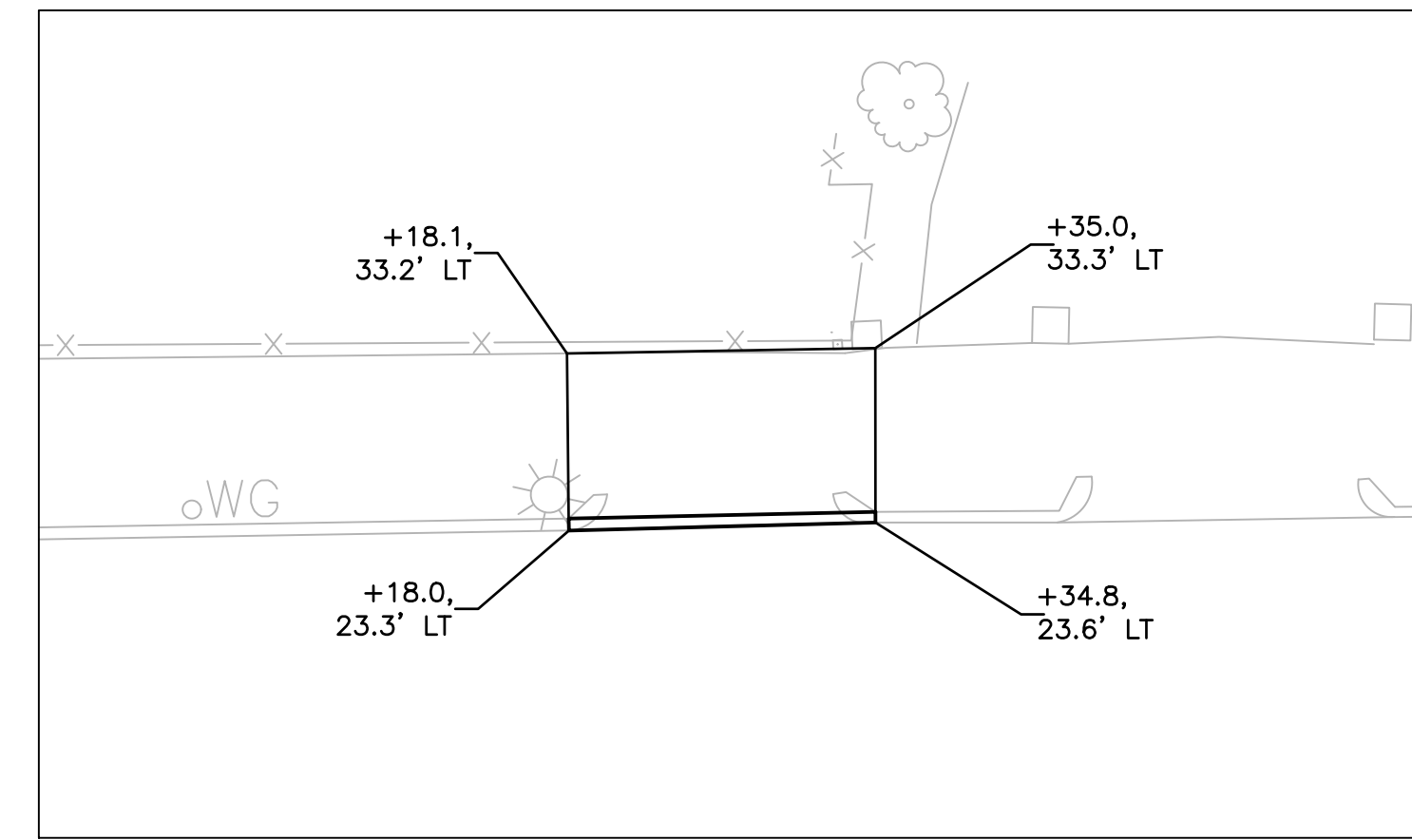
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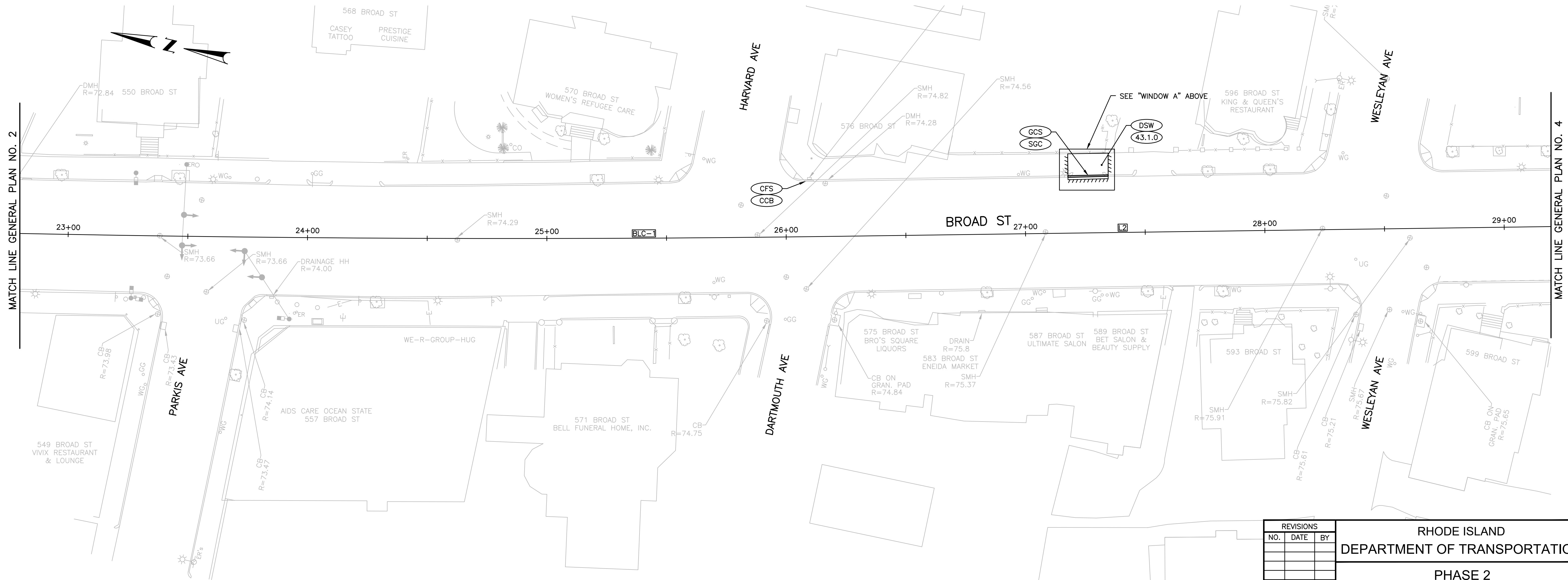
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	405-421-868	2021	10	51

GRADING LEGEND:
 BC BOTTOM OF CURB
 CR CURB RAMP
 CRBC CURB RAMP BOTTOM OF CURB
 DW DRIVEWAY
 ME MATCH EXISTING
 SW SIDEWALK
 TC TOP OF CURB

NOTE:
 ALL STORM DRAINS RECEIVING SEDIMENT-LADEN FLOW MUST BE PROTECTED WITH SILT SACK OR COMPOST FILTER SOCK. SEE DETAIL SHEET.



WINDOW A
 SCALE 1"=10'



MATCH LINE GENERAL PLAN NO. 2

MATCH LINE GENERAL PLAN NO. 4



REVISIONS		
NO.	DATE	BY

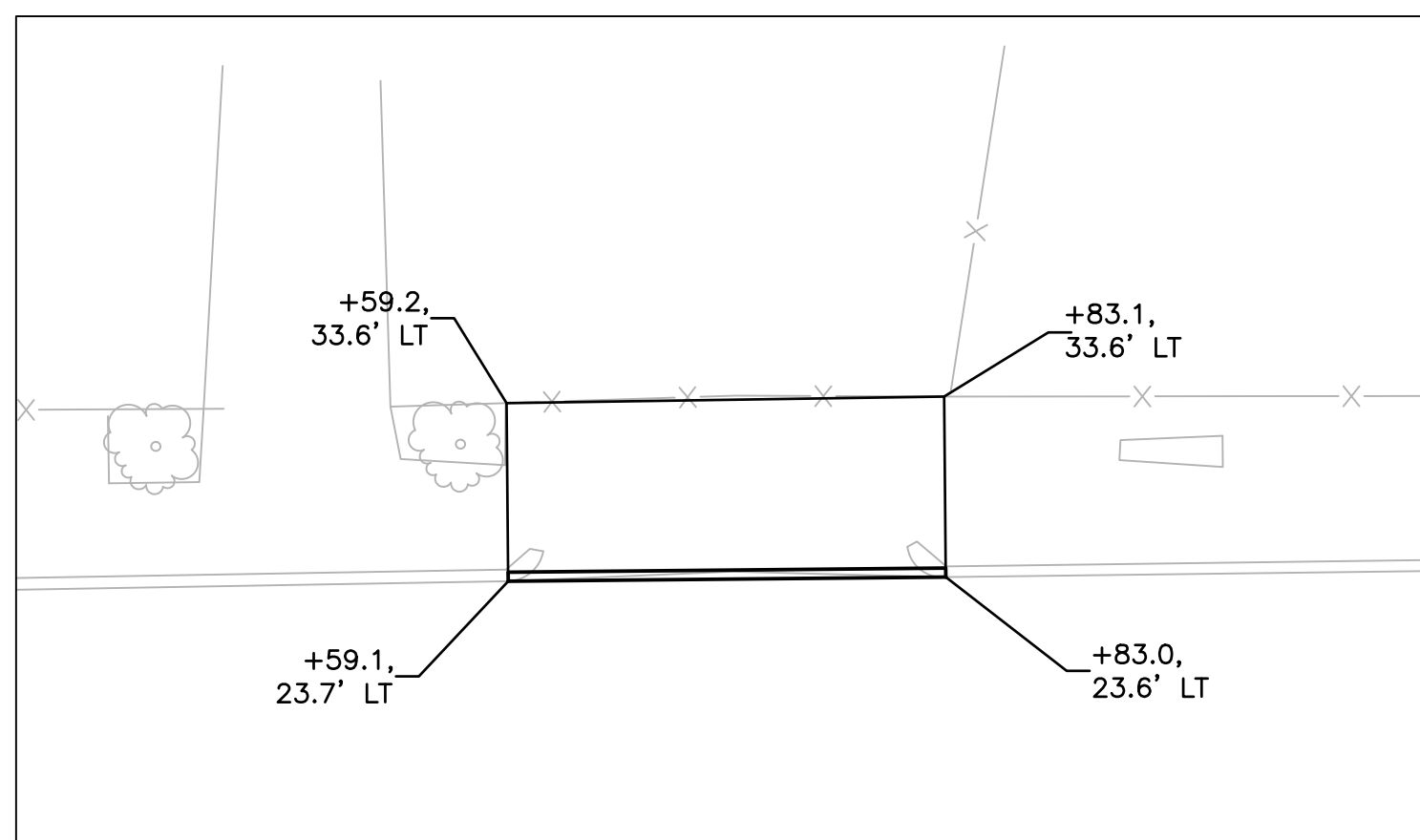
**RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION**

**PHASE 2
 BROAD STREET IMPROVEMENTS**

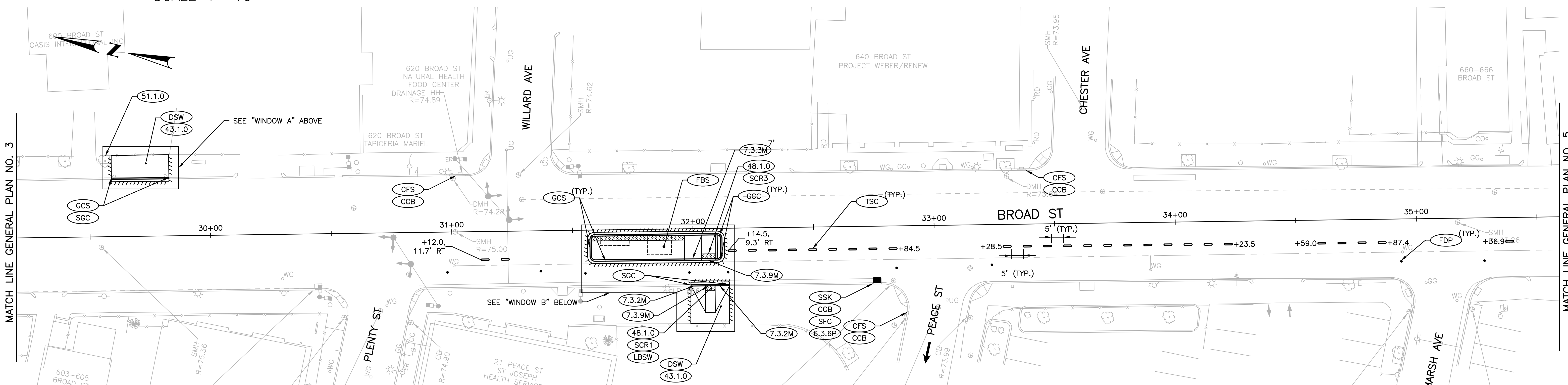
PROVIDENCE, RHODE ISLAND

**GENERAL PLAN
 NO. 3**

CHECKED BY _____ DATE _____ SCALE 1"=20'



WINDOW A
SCALE 1"=10'



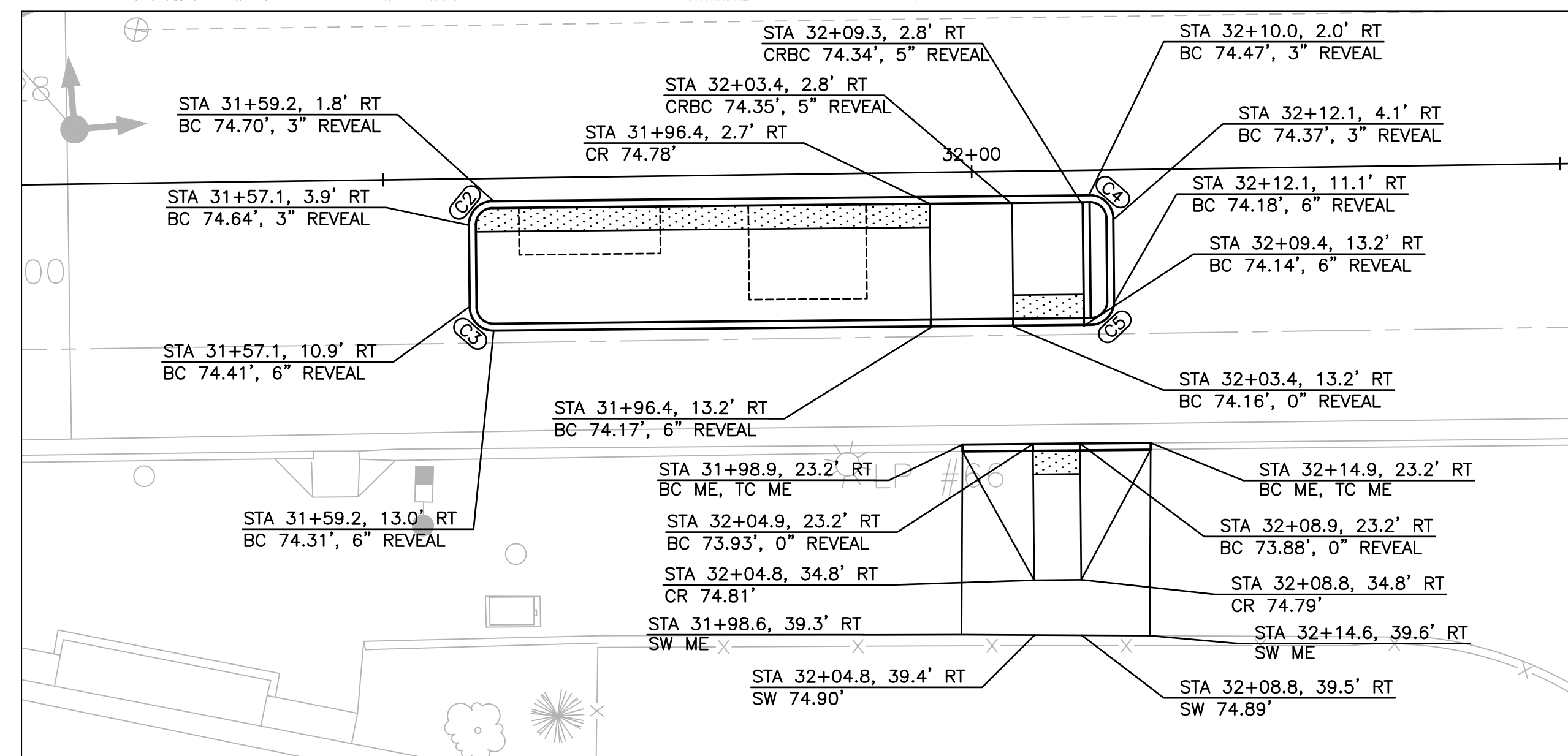
MATCH LINE GENERAL PLAN NO. 3

MATCH LINE GENERAL PLAN NO. 5

GRADING LEGEND:

BC	BOTTOM OF CURB
CR	CURB RAMP
CRBC	CURB RAMP BOTTOM OF CURB
DW	DRIVEWAY
ME	MATCH EXISTING
SW	SIDEWALK
TC	TOP OF CURB

- NOTES:**
1. TRAFFIC SEPARATOR CURBS SHALL BE LOCATED AT THE MIDPOINT OF ADJACENT PAVEMENT MARKINGS, IDENTIFIED ONLY BY A STATION LABEL.
 2. TRAFFIC SEPARATOR CURBS NOT LOCATED AT THE MIDPOINT OF ADJACENT PAVEMENT MARKINGS SHALL BE IDENTIFIED BY A STATION AND OFFSET LABEL.
 3. ALL STORM DRAINS RECEIVING SEDIMENT-LADEN FLOW MUST BE PROTECTED WITH SILT SACK OR COMPOST FILTER SOCK. SEE DETAIL SHEET.



WINDOW B
SCALE 1"=10'



REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

PHASE 2
BROAD STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

GENERAL PLAN
NO. 4

CHECKED BY _____ DATE _____ SCALE 1"=20'



MATCH LINE GENERAL PLAN NO. 4

MATCH LINE GENERAL PLAN NO. 6

- GRADING LEGEND:**
- BC BOTTOM OF CURB
 - CR CURB RAMP
 - CRBC CURB RAMP BOTTOM OF CURB
 - DW DRIVEWAY
 - ME MATCH EXISTING
 - SW SIDEWALK
 - TC TOP OF CURB

- NOTES:**
1. TRAFFIC SEPARATOR CURBS SHALL BE LOCATED AT THE MIDPOINT OF ADJACENT PAVEMENT MARKINGS, IDENTIFIED ONLY BY A STATION LABEL.
 2. TRAFFIC SEPARATOR CURBS NOT LOCATED AT THE MIDPOINT OF ADJACENT PAVEMENT MARKINGS SHALL BE IDENTIFIED BY A STATION AND OFFSET LABEL.
 3. ALL STORM DRAINS RECEIVING SEDIMENT-LADEN FLOW MUST BE PROTECTED WITH SILT SACK OR COMPOST FILTER SOCK. SEE DETAIL SHEET.



REVISIONS		
NO.	DATE	BY

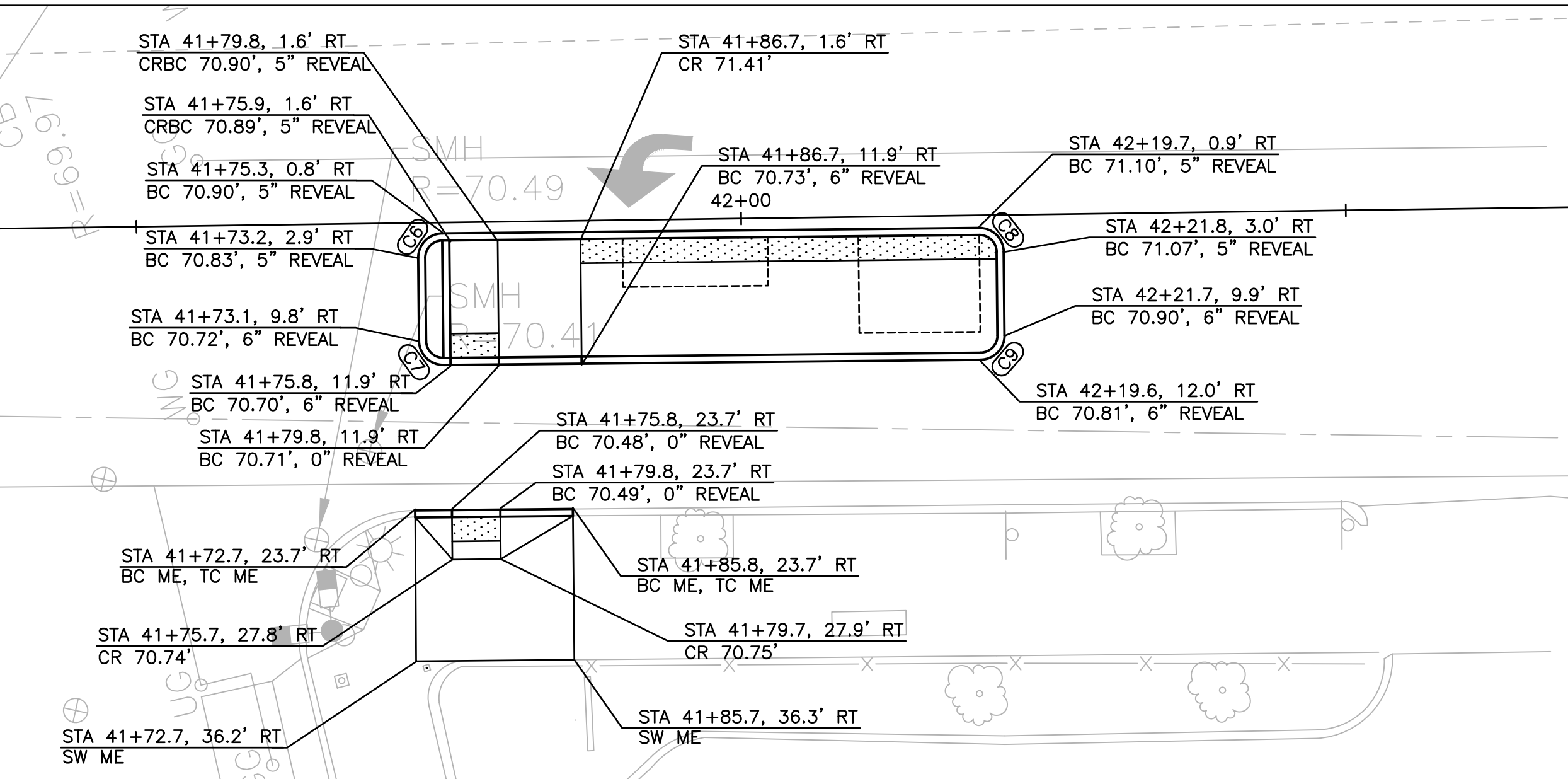
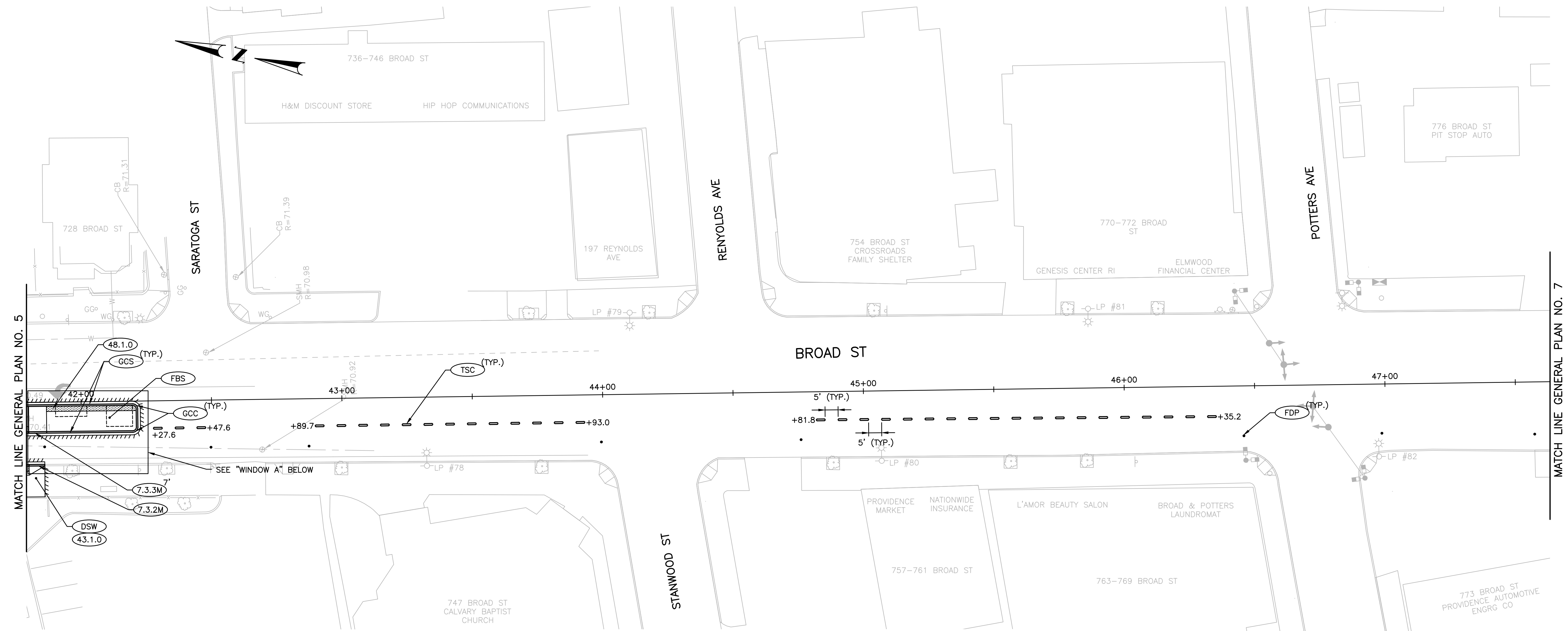
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

PHASE 2
BROAD STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

GENERAL PLAN
NO. 5

CHECKED BY _____ DATE _____ SCALE 1"=20'



WINDOW A
SCALE 1"=10'

- GRADING LEGEND:**
- BC BOTTOM OF CURB
 - CR CURB RAMP
 - CRBC CURB RAMP BOTTOM OF CURB
 - DW DRIVEWAY
 - ME MATCH EXISTING
 - SW SIDEWALK
 - TC TOP OF CURB

- NOTES:**
1. TRAFFIC SEPARATOR CURBS SHALL BE LOCATED AT THE MIDPOINT OF ADJACENT PAVEMENT MARKINGS, IDENTIFIED ONLY BY A STATION LABEL.
 2. TRAFFIC SEPARATOR CURBS NOT LOCATED AT THE MIDPOINT OF ADJACENT PAVEMENT MARKINGS SHALL BE IDENTIFIED BY A STATION AND OFFSET LABEL.
 3. ALL STORM DRAINS RECEIVING SEDIMENT-LADEN FLOW MUST BE PROTECTED WITH SILT SACK OR COMPOST FILTER SOCK. SEE DETAIL SHEET.



REVISIONS		
NO.	DATE	BY

**RHODE ISLAND
DEPARTMENT OF TRANSPORTATION**

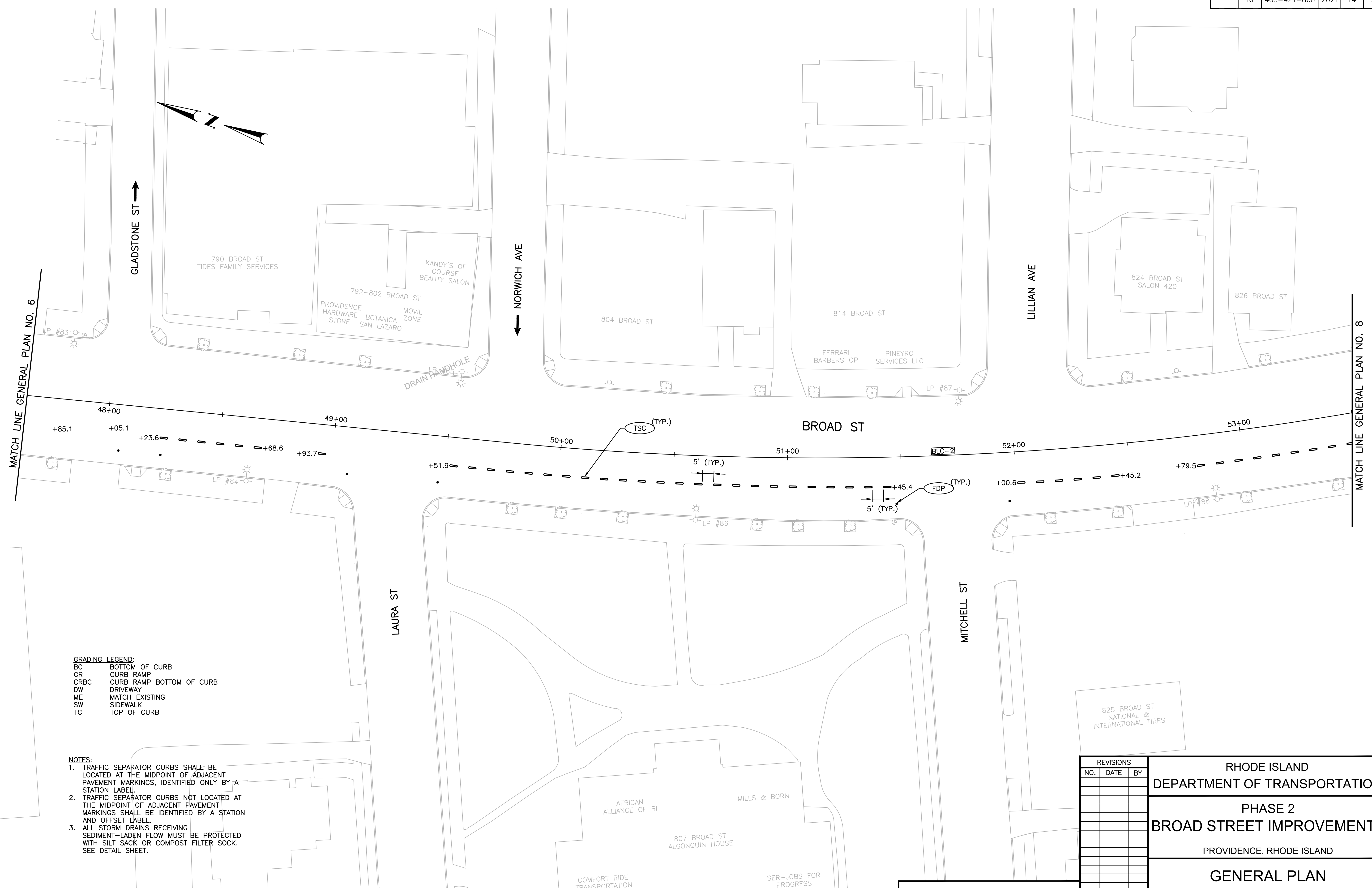
**PHASE 2
BROAD STREET IMPROVEMENTS**

PROVIDENCE, RHODE ISLAND

**GENERAL PLAN
NO. 6**

CHECKED BY _____ DATE _____ SCALE 1"=20'

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	405-421-868	2021	14	51



MATCH LINE GENERAL PLAN NO. 6

MATCH LINE GENERAL PLAN NO. 8

GRADING LEGEND:

BC	BOTTOM OF CURB
CR	CURB RAMP
CRBC	CURB RAMP BOTTOM OF CURB
DW	DRIVEWAY
ME	MATCH EXISTING
SW	SIDEWALK
TC	TOP OF CURB

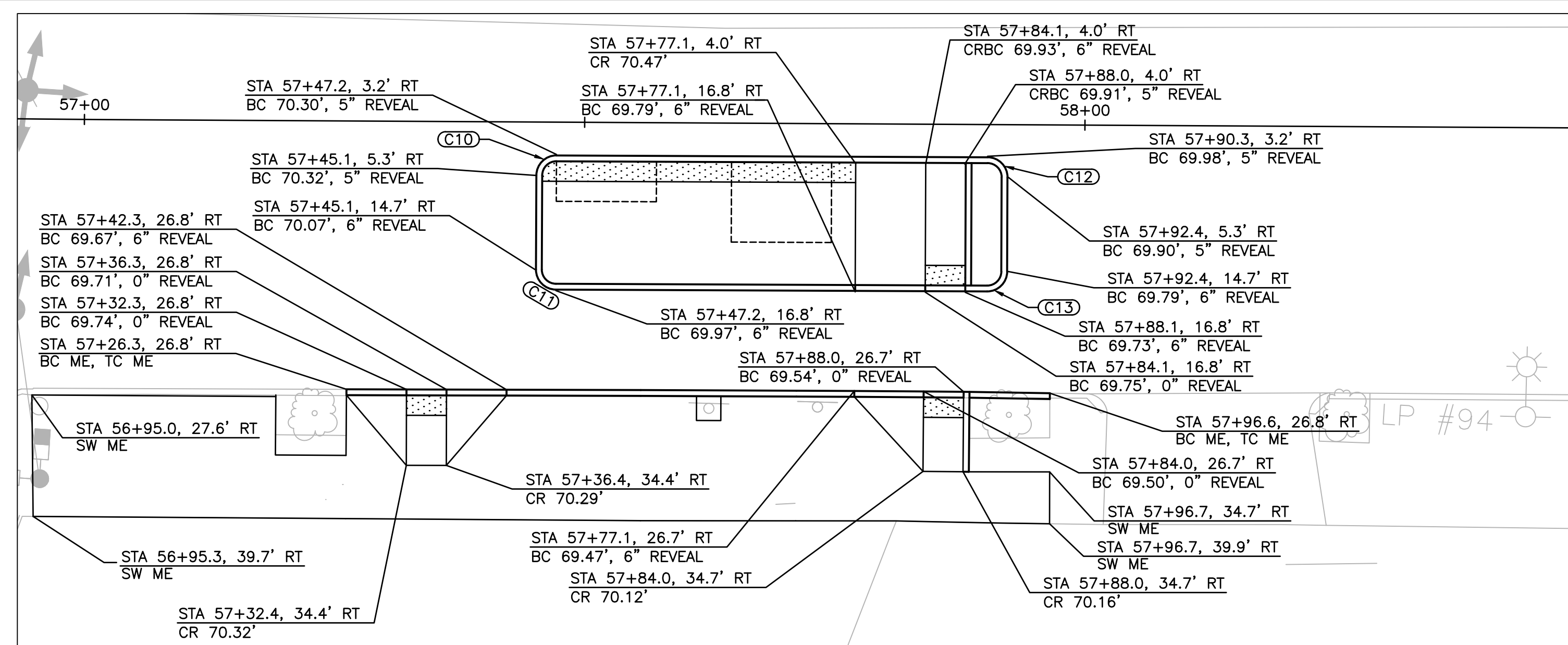
- NOTES:**
1. TRAFFIC SEPARATOR CURBS SHALL BE LOCATED AT THE MIDPOINT OF ADJACENT PAVEMENT MARKINGS, IDENTIFIED ONLY BY A STATION LABEL.
 2. TRAFFIC SEPARATOR CURBS NOT LOCATED AT THE MIDPOINT OF ADJACENT PAVEMENT MARKINGS SHALL BE IDENTIFIED BY A STATION AND OFFSET LABEL.
 3. ALL STORM DRAINS RECEIVING SEDIMENT-LADEN FLOW MUST BE PROTECTED WITH SILT SACK OR COMPOST FILTER SOCK. SEE DETAIL SHEET.



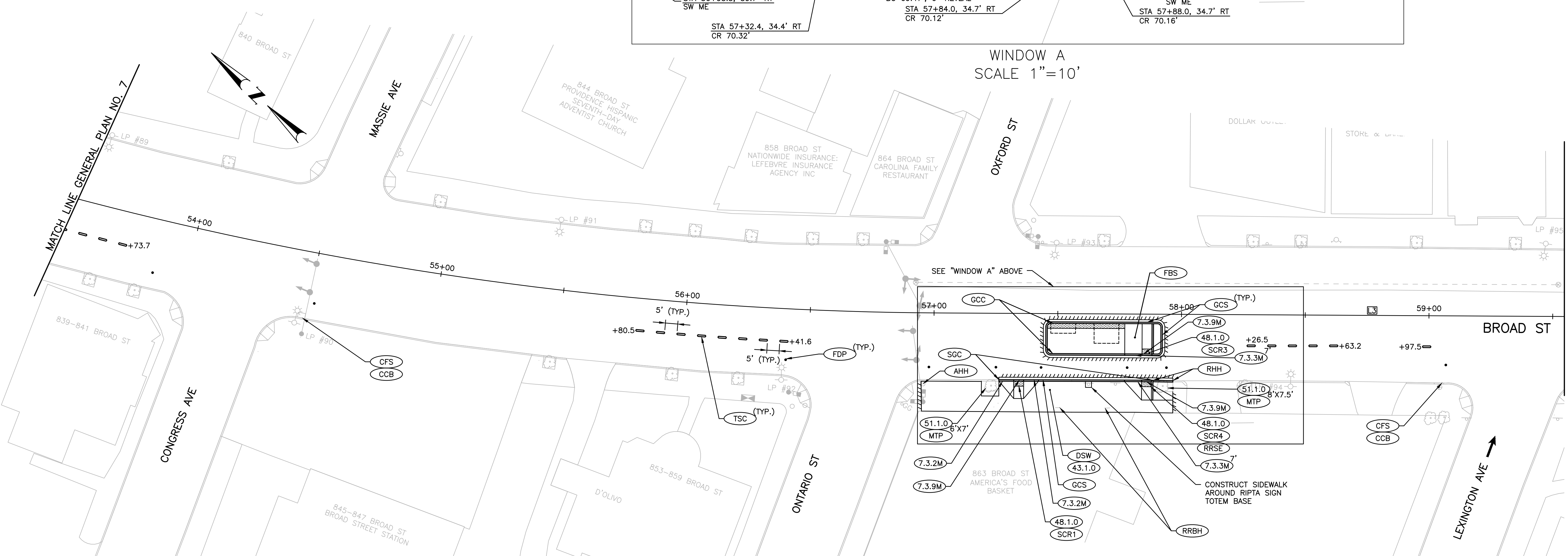
REVISIONS		
NO.	DATE	BY

RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
PHASE 2 BROAD STREET IMPROVEMENTS	
PROVIDENCE, RHODE ISLAND	
GENERAL PLAN NO. 7	
CHECKED BY _____	DATE _____ SCALE 1"=20'

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	405-421-868	2021	15	51



WINDOW A
SCALE 1"=10'



- NOTES:
1. TRAFFIC SEPARATOR CURBS SHALL BE LOCATED AT THE MIDPOINT OF ADJACENT PAVEMENT MARKINGS, IDENTIFIED ONLY BY A STATION LABEL.
 2. TRAFFIC SEPARATOR CURBS NOT LOCATED AT THE MIDPOINT OF ADJACENT PAVEMENT MARKINGS SHALL BE IDENTIFIED BY A STATION AND OFFSET LABEL.
 3. ALL STORM DRAINS RECEIVING SEDIMENT-LADEN FLOW MUST BE PROTECTED WITH SILT SACK OR COMPOST FILTER SOCK. SEE DETAIL SHEET.

GRADING LEGEND:

BC	BOTTOM OF CURB
CR	CURB RAMP
CRBC	CURB RAMP BOTTOM OF CURB
DW	DRIVEWAY
ME	MATCH EXISTING
SW	SIDEWALK
TC	TOP OF CURB



REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

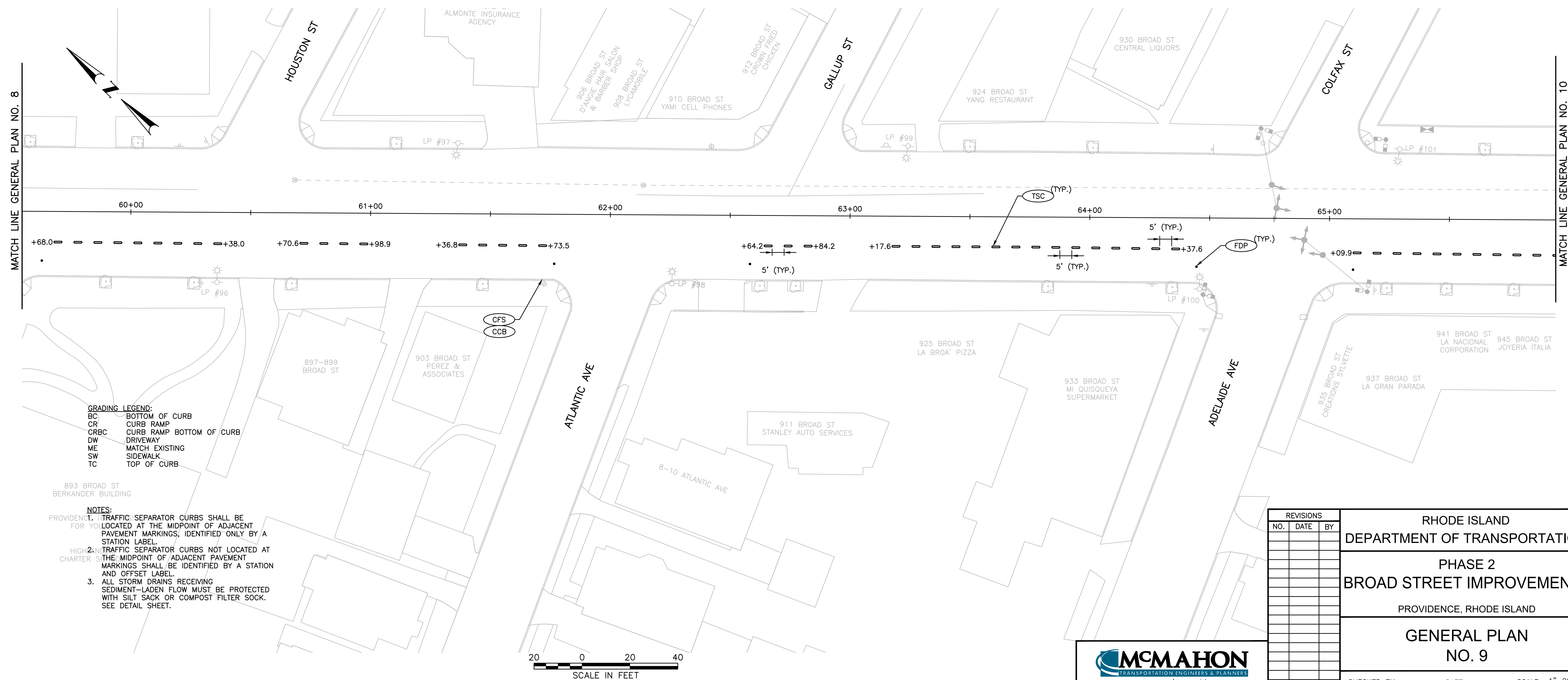
PHASE 2
BROAD STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

GENERAL PLAN
NO. 8

CHECKED BY _____ DATE _____ SCALE 1"=20'

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	405-421-868	2021	16	51



GRADING LEGEND:

BC	BOTTOM OF CURB
CR	CURB RAMP
CRBC	CURB RAMP BOTTOM OF CURB
DW	DRIVEWAY
ME	MATCH EXISTING
SW	SIDEWALK
TC	TOP OF CURB

- NOTES:**
1. TRAFFIC SEPARATOR CURBS SHALL BE LOCATED AT THE MIDPOINT OF ADJACENT PAVEMENT MARKINGS, IDENTIFIED ONLY BY A STATION LABEL.
 2. TRAFFIC SEPARATOR CURBS NOT LOCATED AT THE MIDPOINT OF ADJACENT PAVEMENT MARKINGS SHALL BE IDENTIFIED BY A STATION AND OFFSET LABEL.
 3. ALL STORM DRAINS RECEIVING SEDIMENT-LADEN FLOW MUST BE PROTECTED WITH SILT SACK OR COMPOST FILTER SOCK. SEE DETAIL SHEET.



REVISIONS		
NO.	DATE	BY

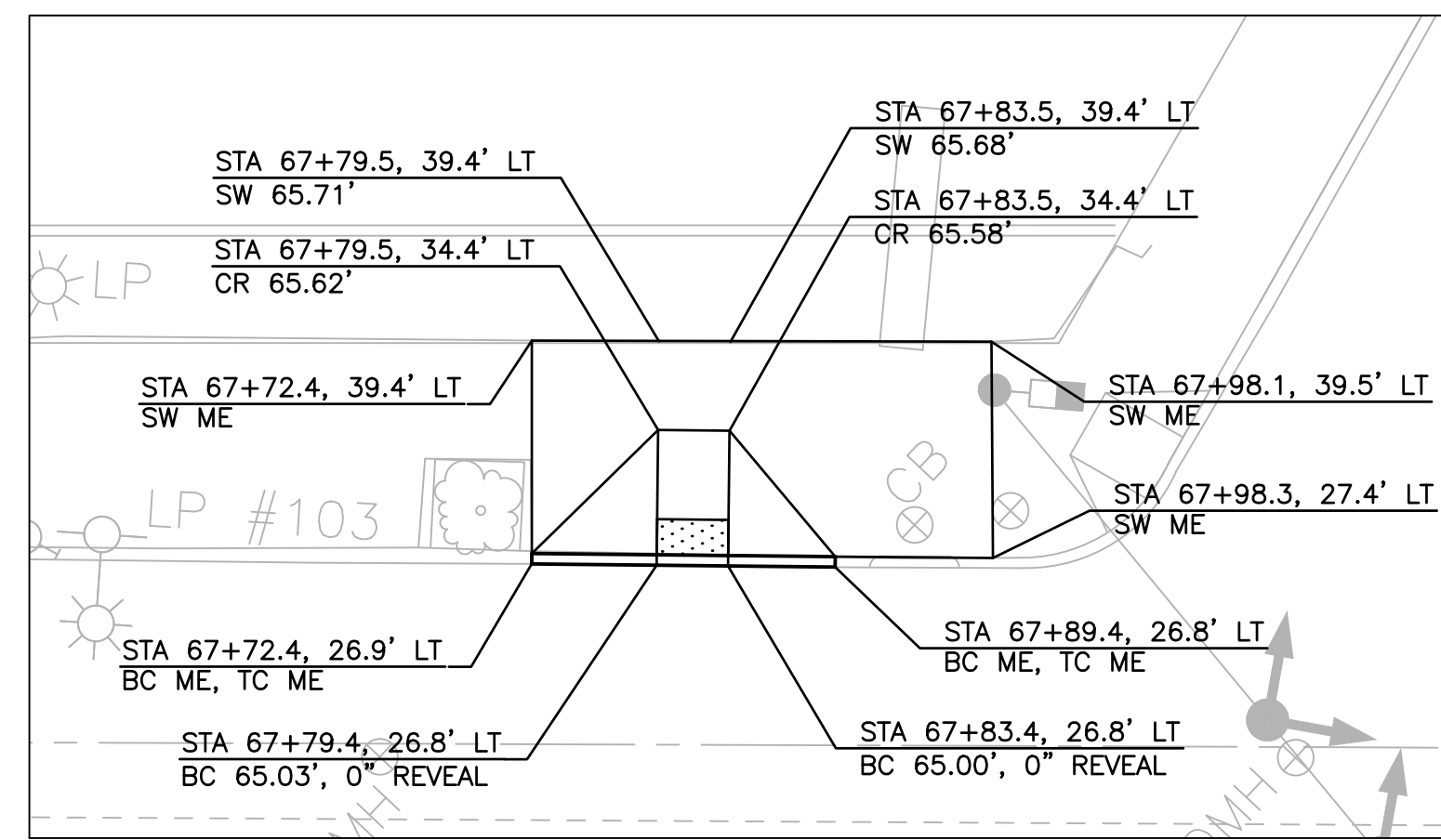
**RHODE ISLAND
DEPARTMENT OF TRANSPORTATION**

**PHASE 2
BROAD STREET IMPROVEMENTS**

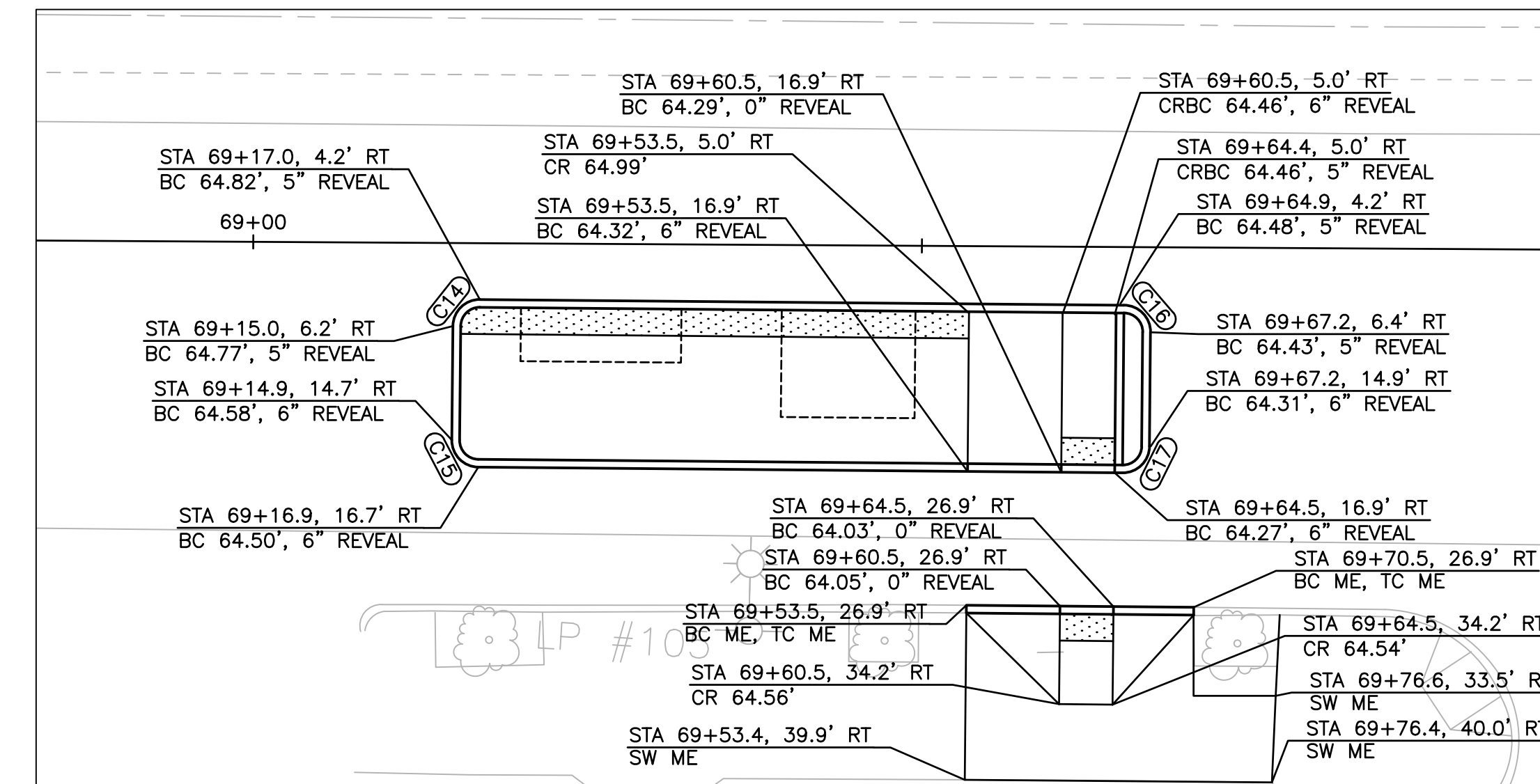
 PROVIDENCE, RHODE ISLAND

**GENERAL PLAN
NO. 9**

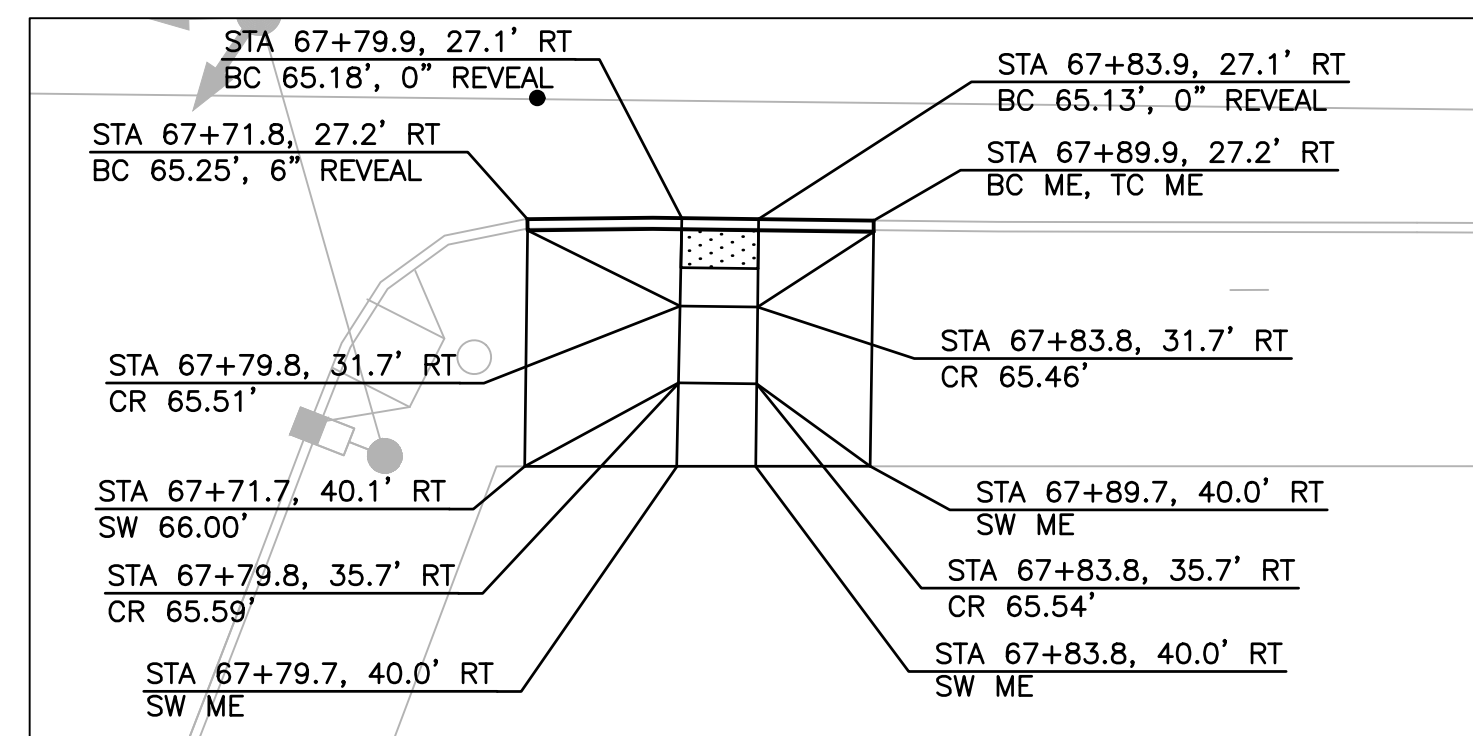
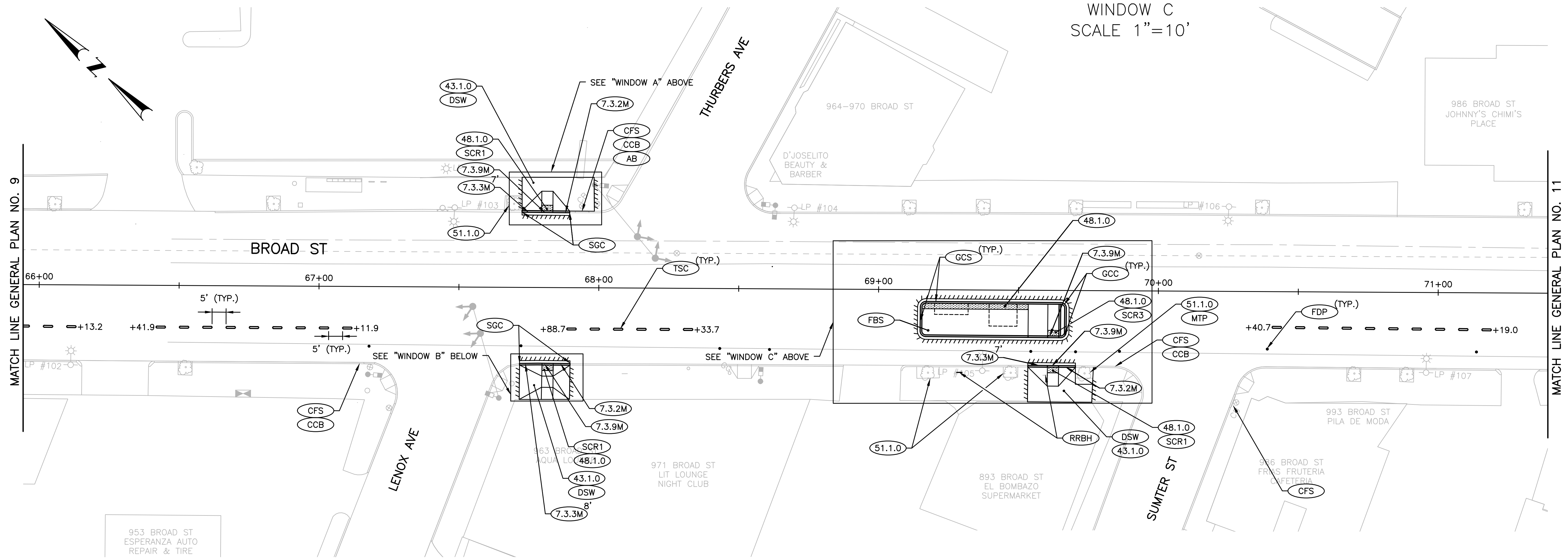
CHECKED BY _____ DATE _____ SCALE 1"=20'



WINDOW A
SCALE 1"=10'



WINDOW C
SCALE 1"=10'



WINDOW B
SCALE 1"=10'

- NOTES:**
1. TRAFFIC SEPARATOR CURBS SHALL BE LOCATED AT THE MIDPOINT OF ADJACENT PAVEMENT MARKINGS, IDENTIFIED ONLY BY A STATION LABEL.
 2. TRAFFIC SEPARATOR CURBS NOT LOCATED AT THE MIDPOINT OF ADJACENT PAVEMENT MARKINGS SHALL BE IDENTIFIED BY A STATION AND OFFSET LABEL.
 3. ALL STORM DRAINS RECEIVING SEDIMENT-LADEN FLOW MUST BE PROTECTED WITH SILT SACK OR COMPOST FILTER SOCK. SEE DETAIL SHEET.

- GRADING LEGEND:**
- BC BOTTOM OF CURB
 - CR CURB RAMP
 - CRBC CURB RAMP BOTTOM OF CURB
 - DW DRIVEWAY
 - ME MATCH EXISTING
 - SW SIDEWALK
 - TC TOP OF CURB



REVISIONS		
NO.	DATE	BY

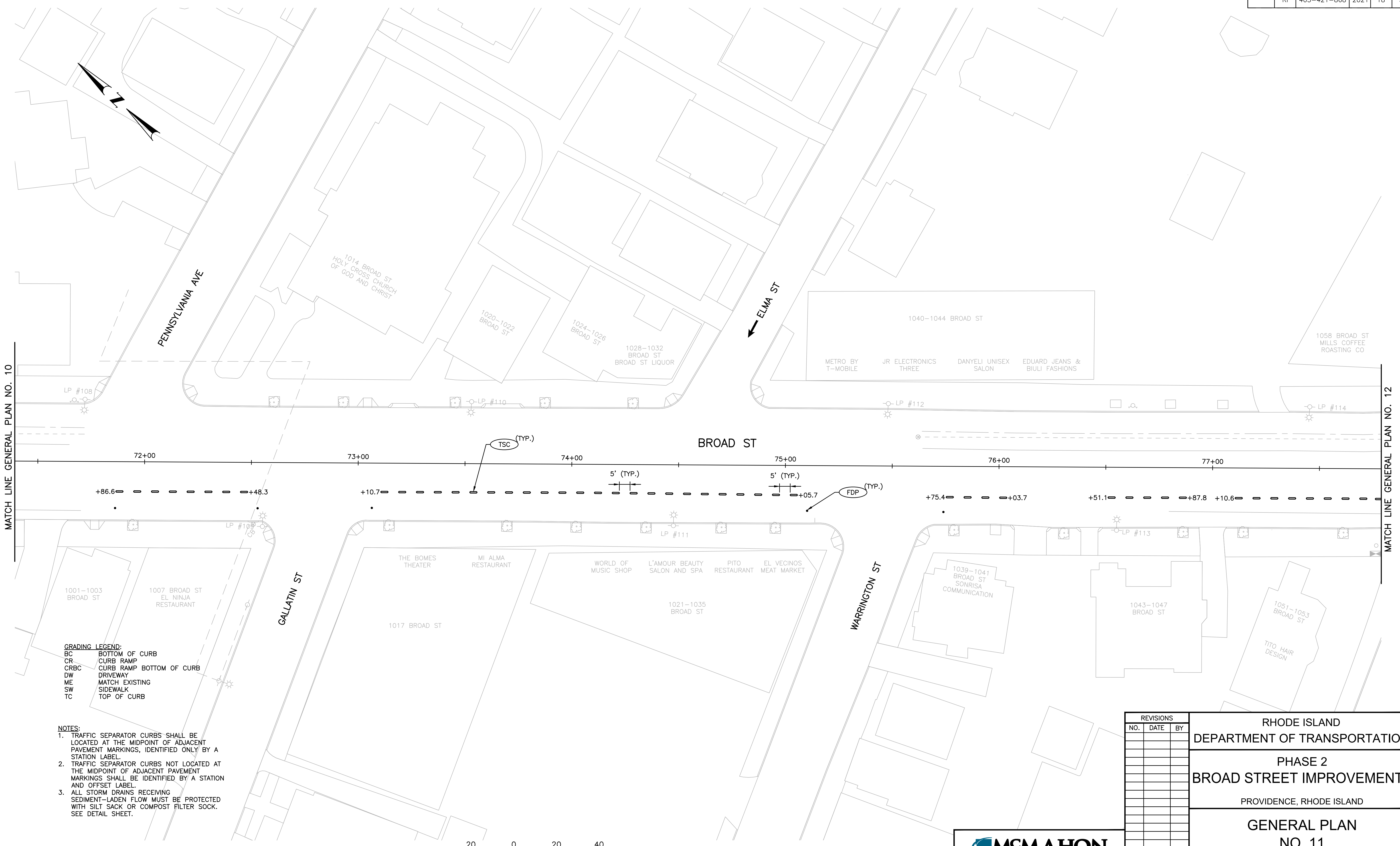
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

PHASE 2
BROAD STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

GENERAL PLAN
NO. 10

CHECKED BY _____ DATE _____ SCALE 1"=20'



MATCH LINE GENERAL PLAN NO. 10

MATCH LINE GENERAL PLAN NO. 12

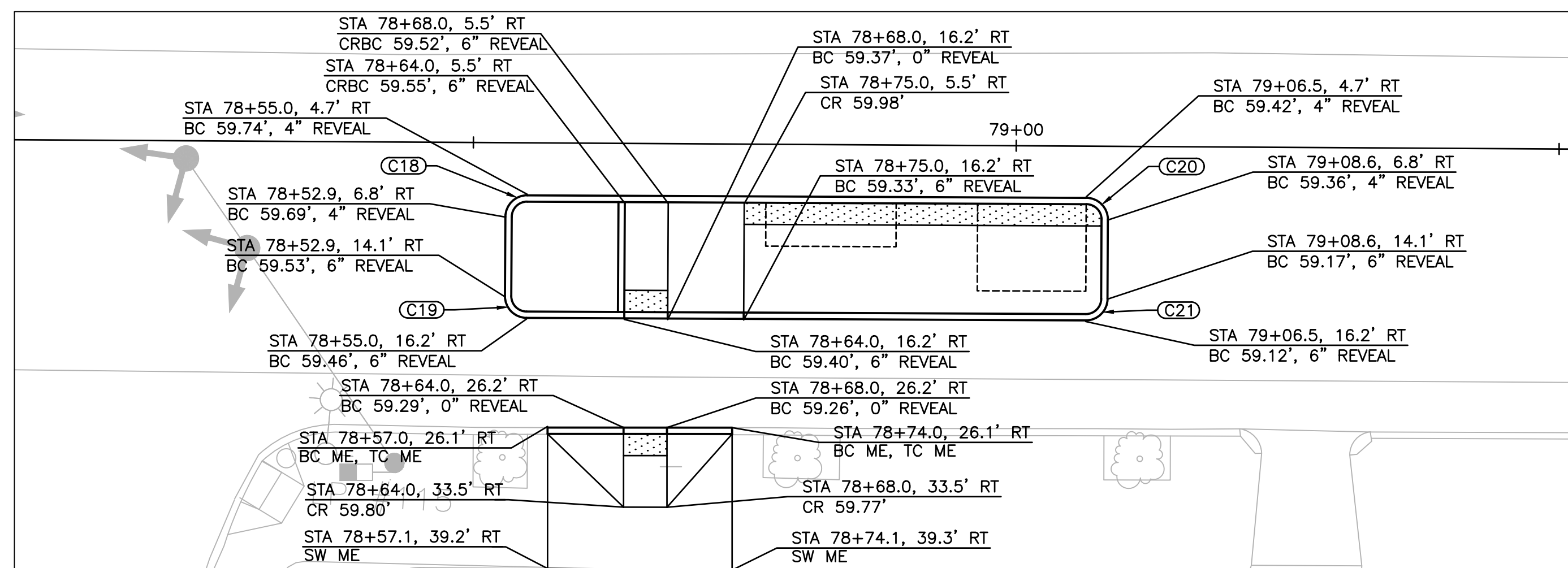
GRADING LEGEND:
 BC BOTTOM OF CURB
 CR CURB RAMP
 CRBC CURB RAMP BOTTOM OF CURB
 DW DRIVEWAY
 ME MATCH EXISTING
 SW SIDEWALK
 TC TOP OF CURB

NOTES:
 1. TRAFFIC SEPARATOR CURBS SHALL BE LOCATED AT THE MIDPOINT OF ADJACENT PAVEMENT MARKINGS, IDENTIFIED ONLY BY A STATION LABEL.
 2. TRAFFIC SEPARATOR CURBS NOT LOCATED AT THE MIDPOINT OF ADJACENT PAVEMENT MARKINGS SHALL BE IDENTIFIED BY A STATION AND OFFSET LABEL.
 3. ALL STORM DRAINS RECEIVING SEDIMENT-LADEN FLOW MUST BE PROTECTED WITH SILT SACK OR COMPOST FILTER SOCK. SEE DETAIL SHEET.

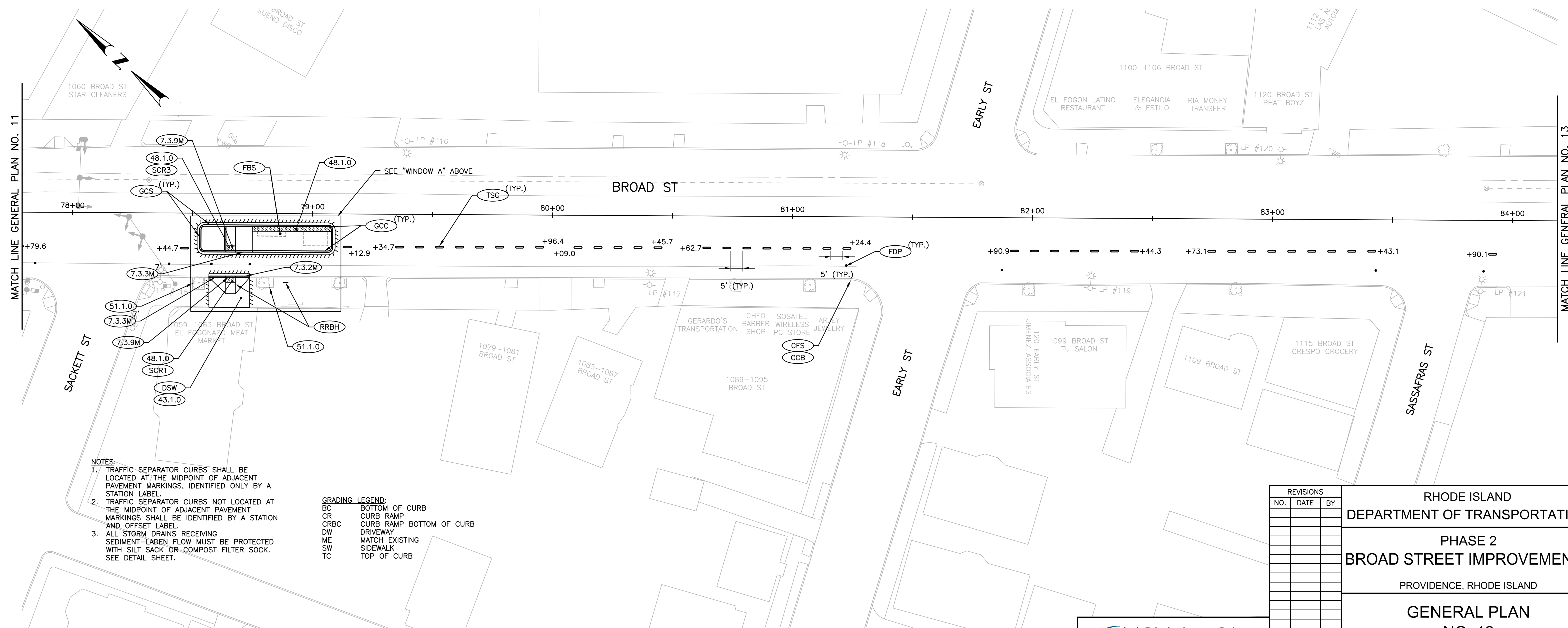


REVISIONS		
NO.	DATE	BY

RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
PHASE 2 BROAD STREET IMPROVEMENTS	
PROVIDENCE, RHODE ISLAND	
GENERAL PLAN NO. 11	
CHECKED BY _____	DATE _____
SCALE 1"=20'	



WINDOW A
SCALE 1"=10'



- NOTES:
- TRAFFIC SEPARATOR CURBS SHALL BE LOCATED AT THE MIDPOINT OF ADJACENT PAVEMENT MARKINGS, IDENTIFIED ONLY BY A STATION LABEL.
 - TRAFFIC SEPARATOR CURBS NOT LOCATED AT THE MIDPOINT OF ADJACENT PAVEMENT MARKINGS SHALL BE IDENTIFIED BY A STATION AND OFFSET LABEL.
 - ALL STORM DRAINS RECEIVING SEDIMENT-LADEN FLOW MUST BE PROTECTED WITH SILT SACK OR-COMPOST FILTER SOCK. SEE DETAIL SHEET.

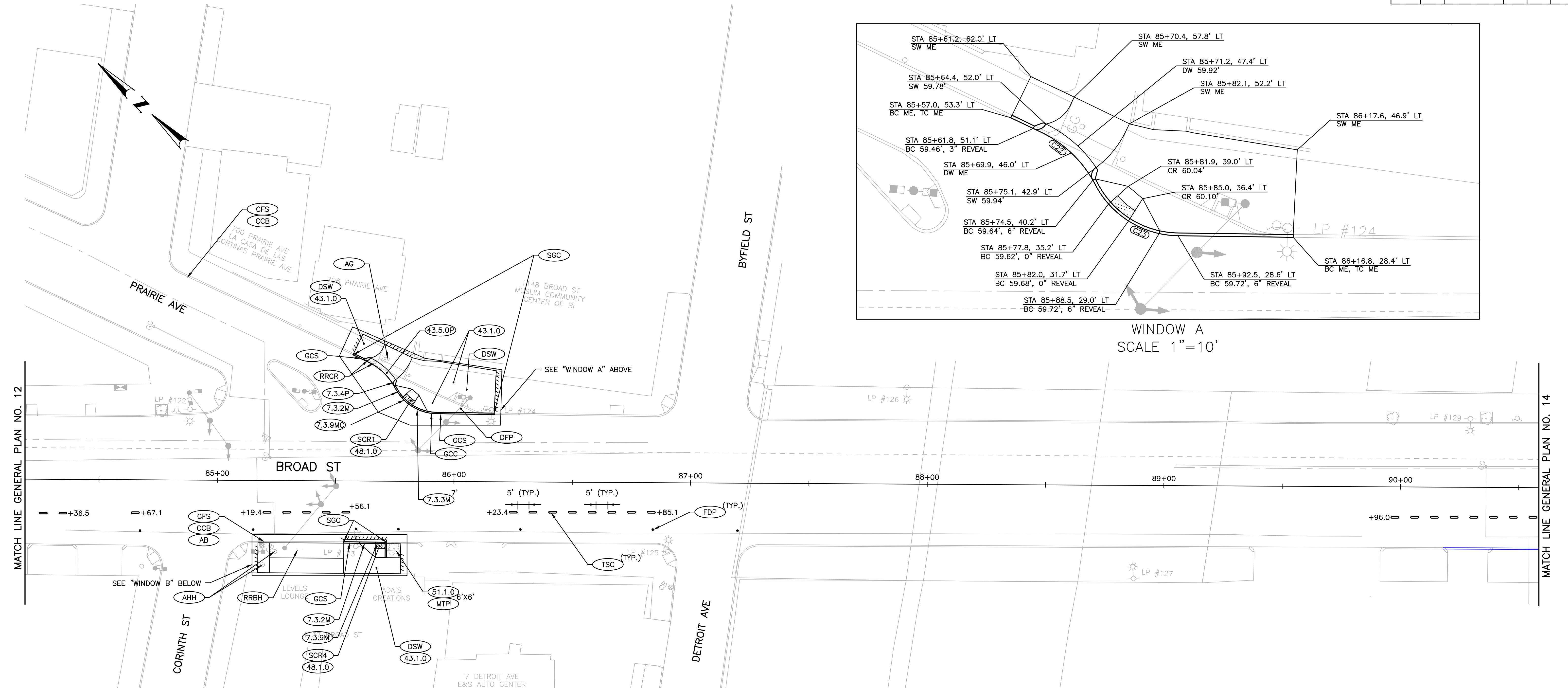
GRADING LEGEND:
 BC BOTTOM OF CURB
 CR CURB RAMP
 CRBC CURB RAMP BOTTOM OF CURB
 DW DRIVEWAY
 ME MATCH EXISTING
 SW SIDEWALK
 TC TOP OF CURB



REVISIONS		
NO.	DATE	BY

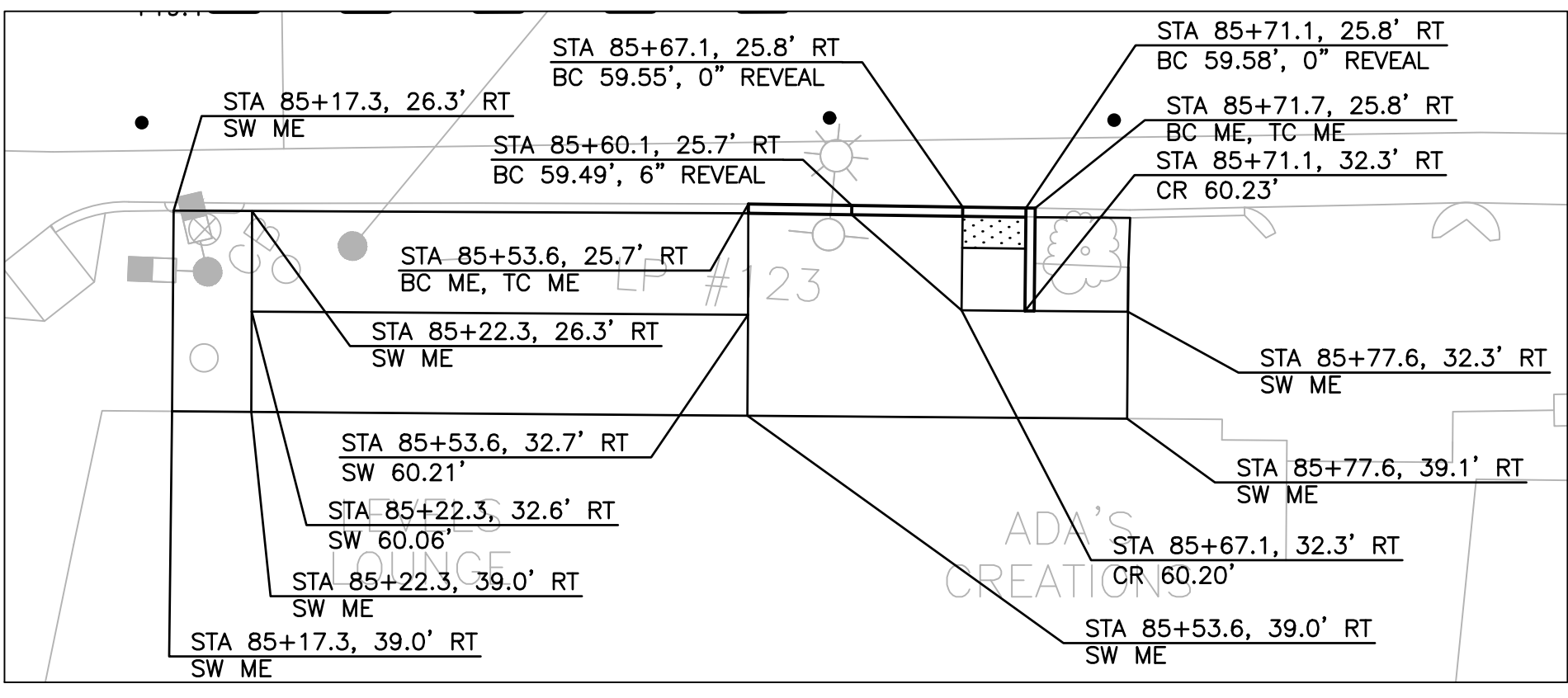
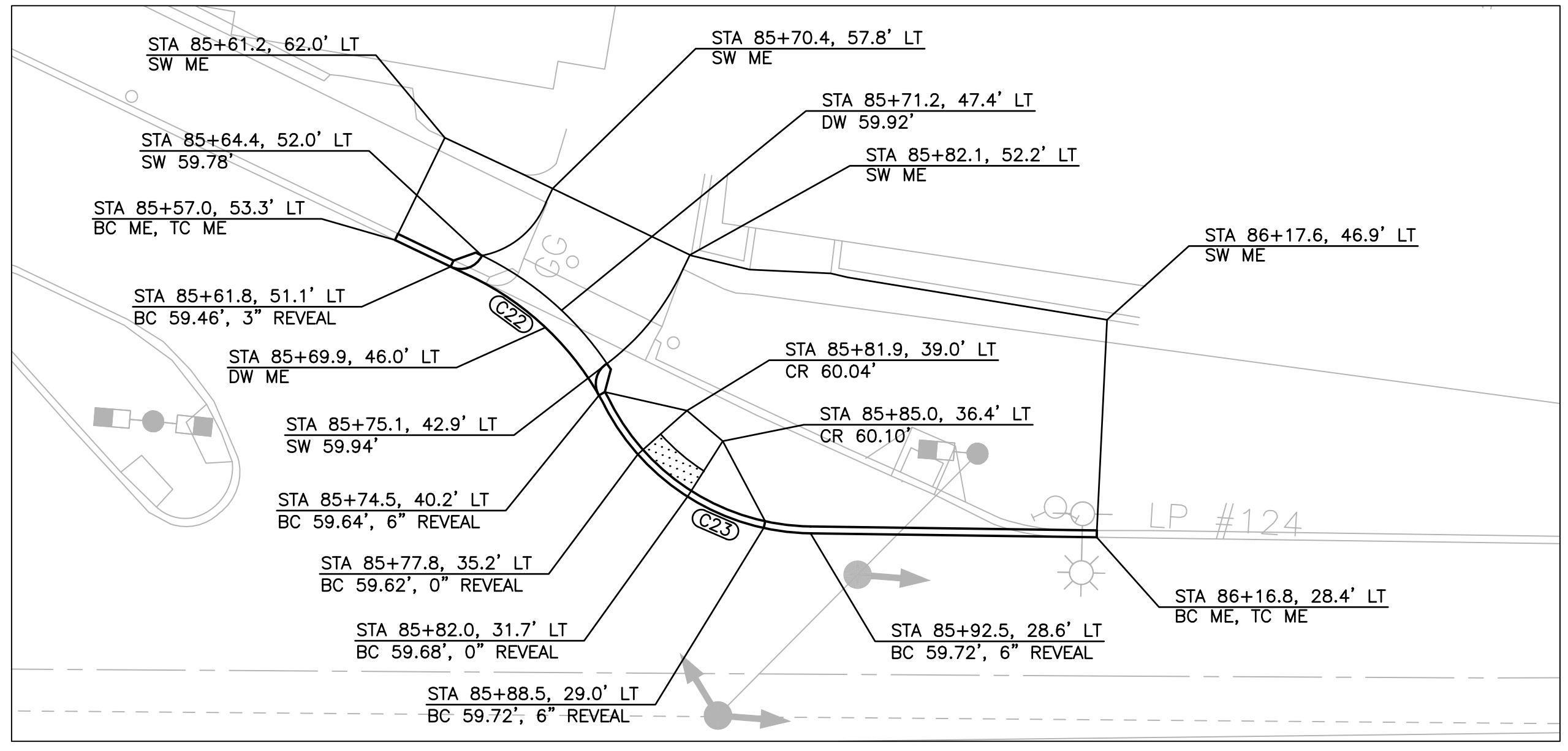
RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION
 PHASE 2
 BROAD STREET IMPROVEMENTS
 PROVIDENCE, RHODE ISLAND
 GENERAL PLAN
 NO. 12

CHECKED BY _____ DATE _____ SCALE 1"=20'



MATCH LINE GENERAL PLAN NO. 12

MATCH LINE GENERAL PLAN NO. 14



GRADING LEGEND:
 BC BOTTOM OF CURB
 CR CURB RAMP
 CRBC CURB RAMP BOTTOM OF CURB
 DW DRIVEWAY
 ME MATCH EXISTING
 SW SIDEWALK
 TC TOP OF CURB

NOTES:
 1. TRAFFIC SEPARATOR CURBS SHALL BE LOCATED AT THE MIDPOINT OF ADJACENT PAVEMENT MARKINGS, IDENTIFIED ONLY BY A STATION LABEL.
 2. TRAFFIC SEPARATOR CURBS NOT LOCATED AT THE MIDPOINT OF ADJACENT PAVEMENT MARKINGS SHALL BE IDENTIFIED BY A STATION AND OFFSET LABEL.
 3. ALL STORM DRAINS RECEIVING SEDIMENT-LADEN FLOW MUST BE PROTECTED WITH SILT SACK OR COMPOST FILTER SOCK. SEE DETAIL SHEET.



REVISIONS		
NO.	DATE	BY

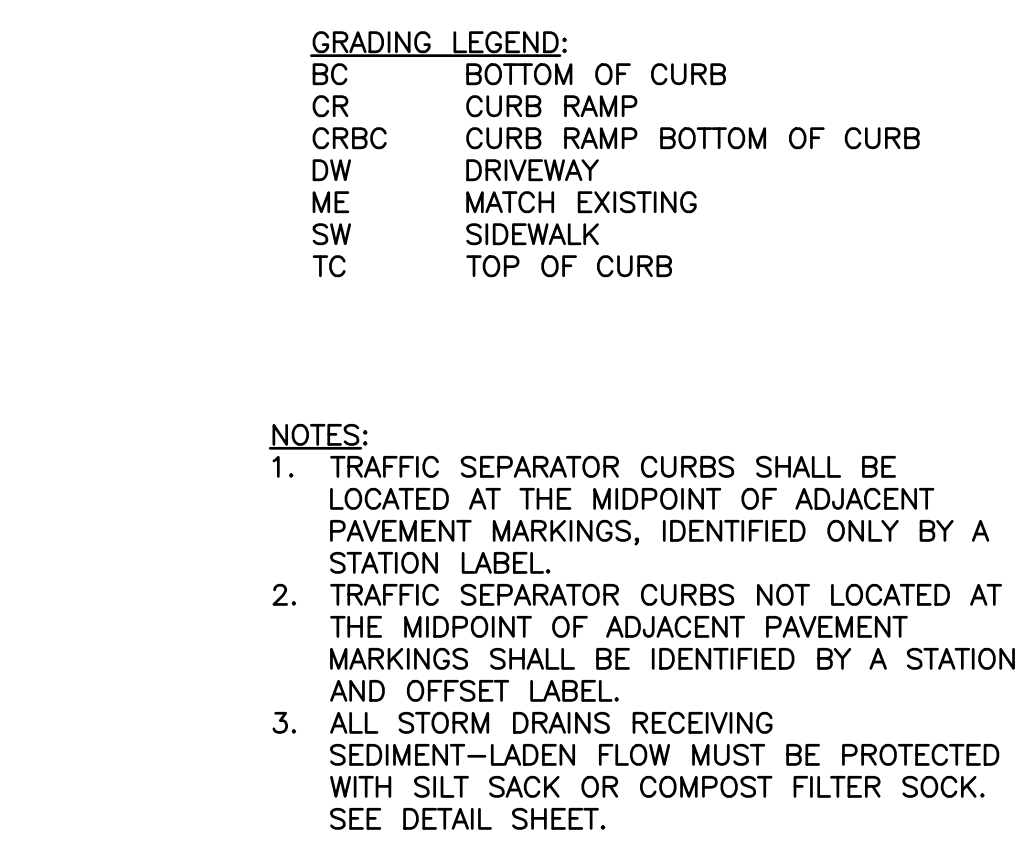
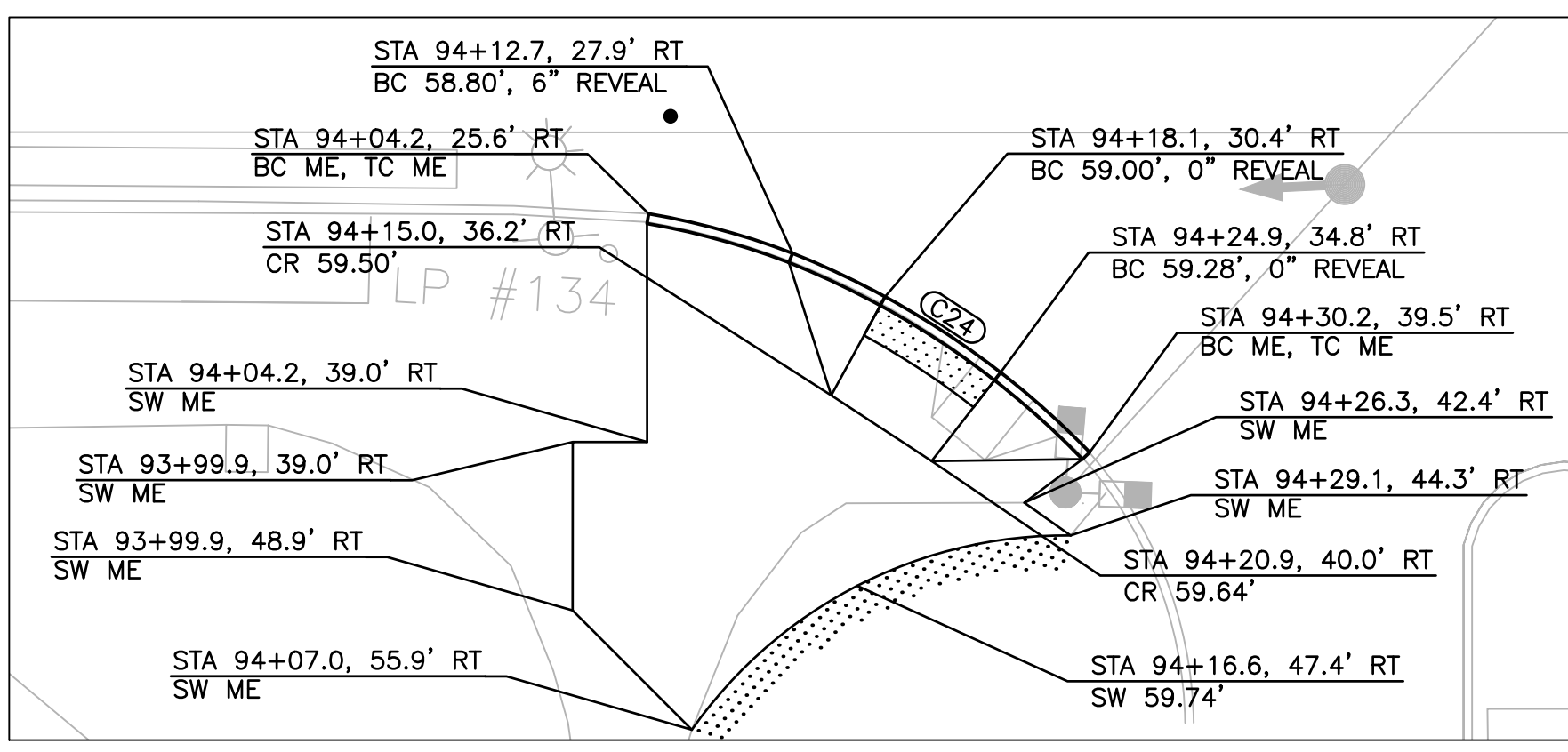
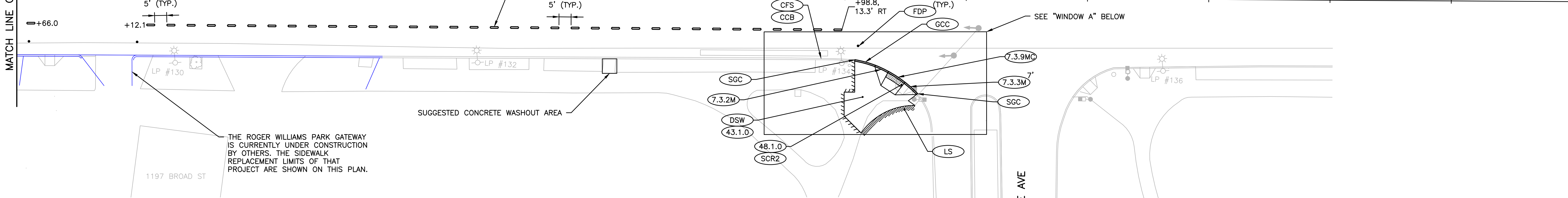
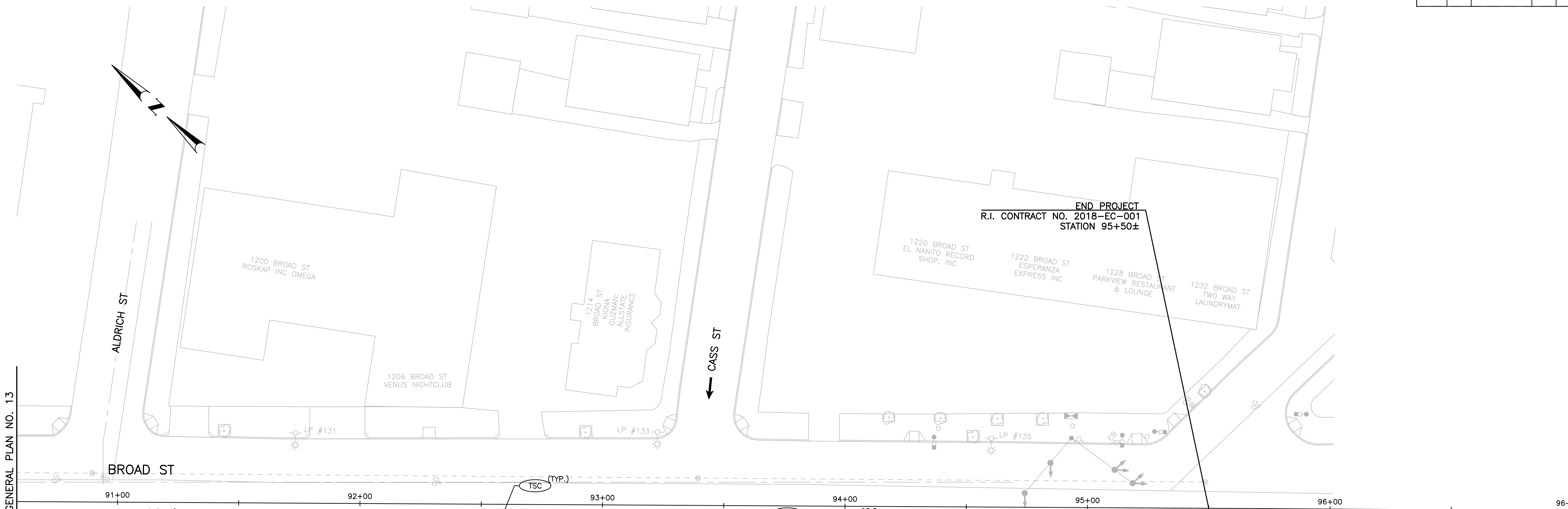
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

PHASE 2
BROAD STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

GENERAL PLAN
NO. 13

CHECKED BY _____ DATE _____ SCALE 1"=20'



WINDOW A
SCALE 1"=10'



REVISIONS		
NO.	DATE	BY

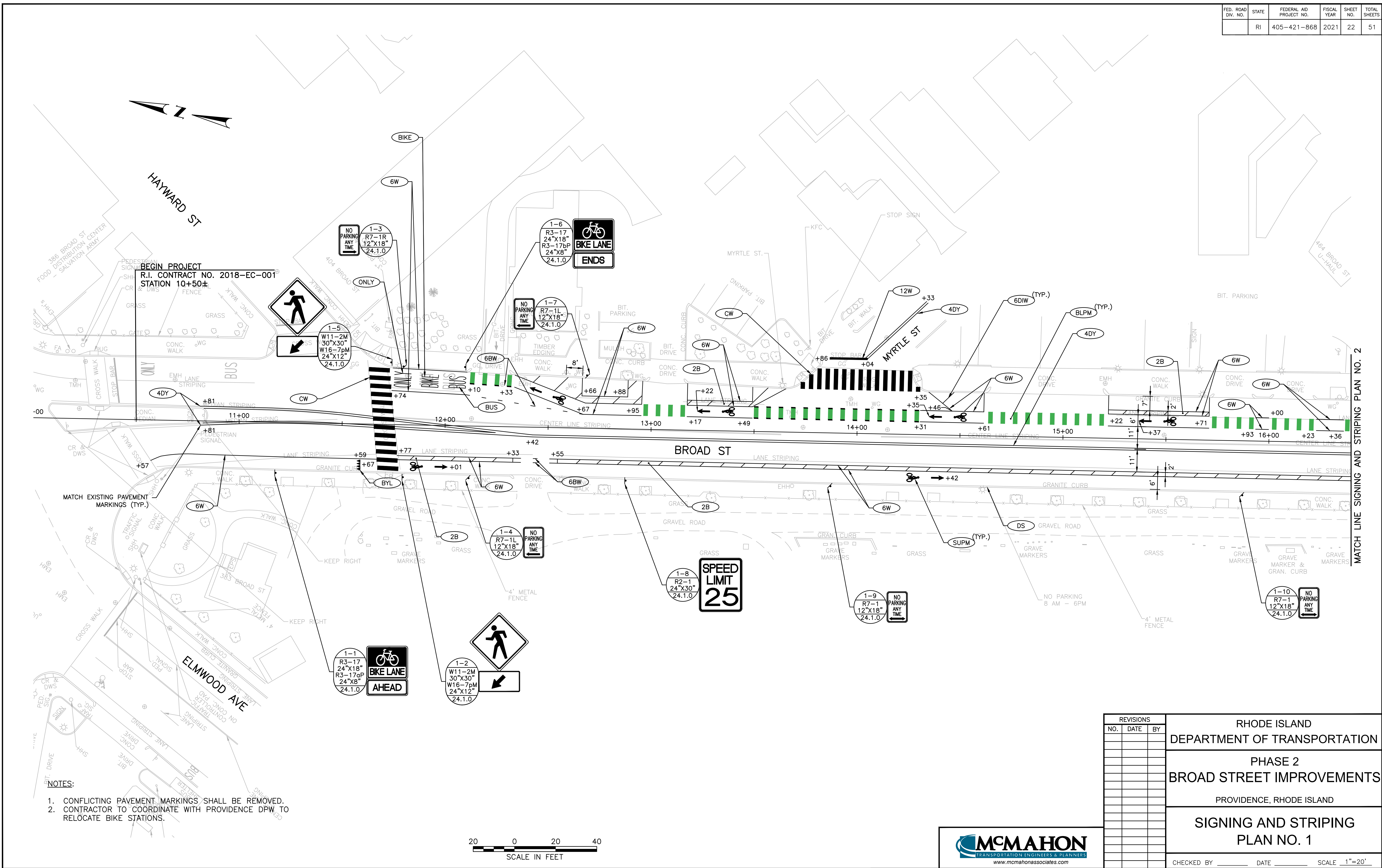
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

PHASE 2
BROAD STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

GENERAL PLAN
NO. 14

CHECKED BY _____ DATE _____ SCALE 1"=20'



BEGIN PROJECT
R.I. CONTRACT NO. 2018-EC-001
STATION 10+50±

MATCH LINE SIGNING AND STRIPING PLAN NO. 2

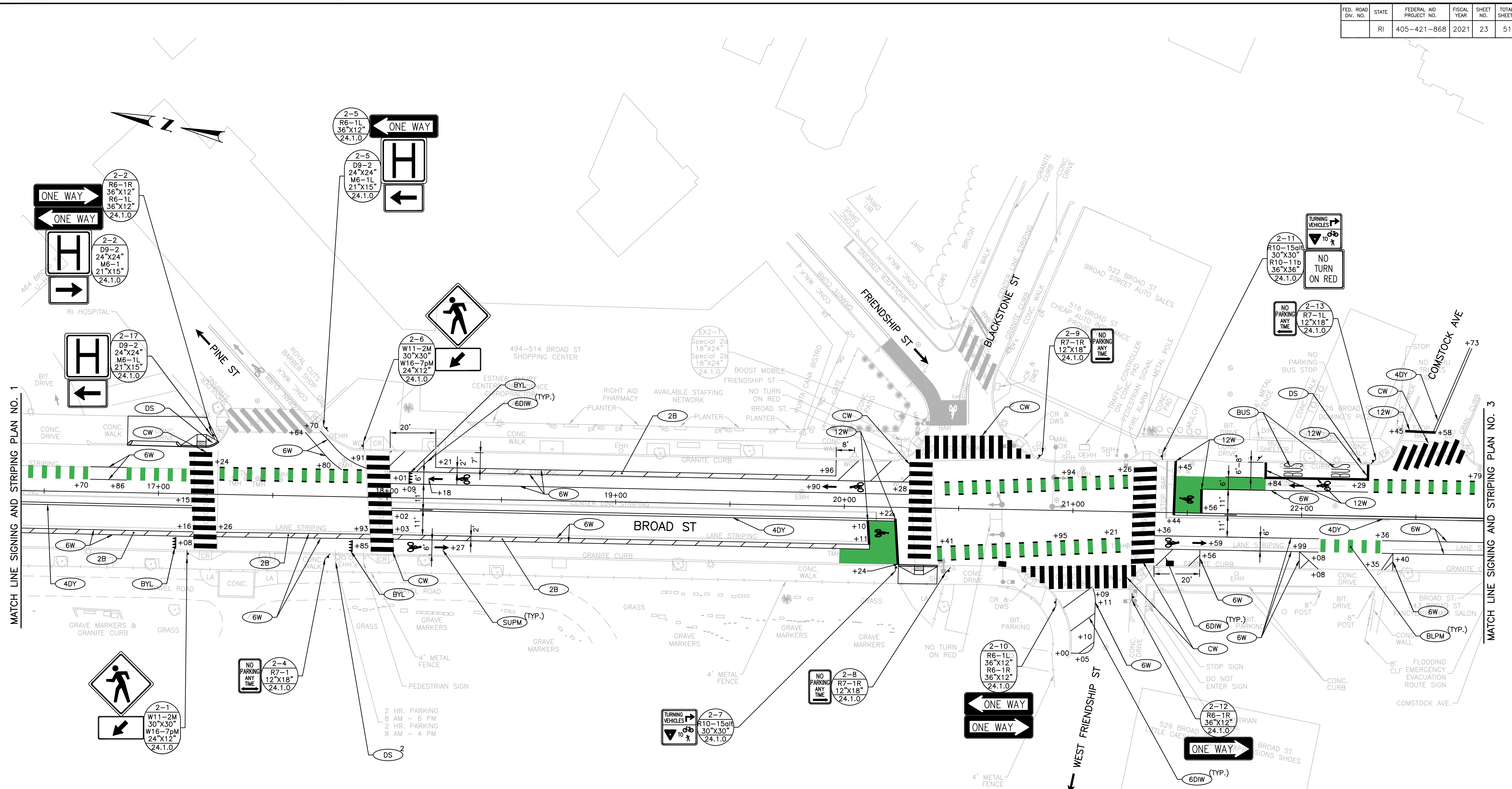
- NOTES:
1. CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.
 2. CONTRACTOR TO COORDINATE WITH PROVIDENCE DPW TO RELOCATE BIKE STATIONS.



REVISIONS		
NO.	DATE	BY

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PHASE 2 BROAD STREET IMPROVEMENTS
PROVIDENCE, RHODE ISLAND
SIGNING AND STRIPING PLAN NO. 1
CHECKED BY _____ DATE _____ SCALE 1"=20'

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI	405-421-868	2021	23	51



MATCH LINE SIGNING AND STRIPING PLAN NO. 1

MATCH LINE SIGNING AND STRIPING PLAN NO. 3

- NOTES:
- CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.
 - CONTRACTOR TO COORDINATE WITH PROVIDENCE DPW TO RELOCATE BIKE STATIONS.



REVISIONS		
NO.	DATE	BY

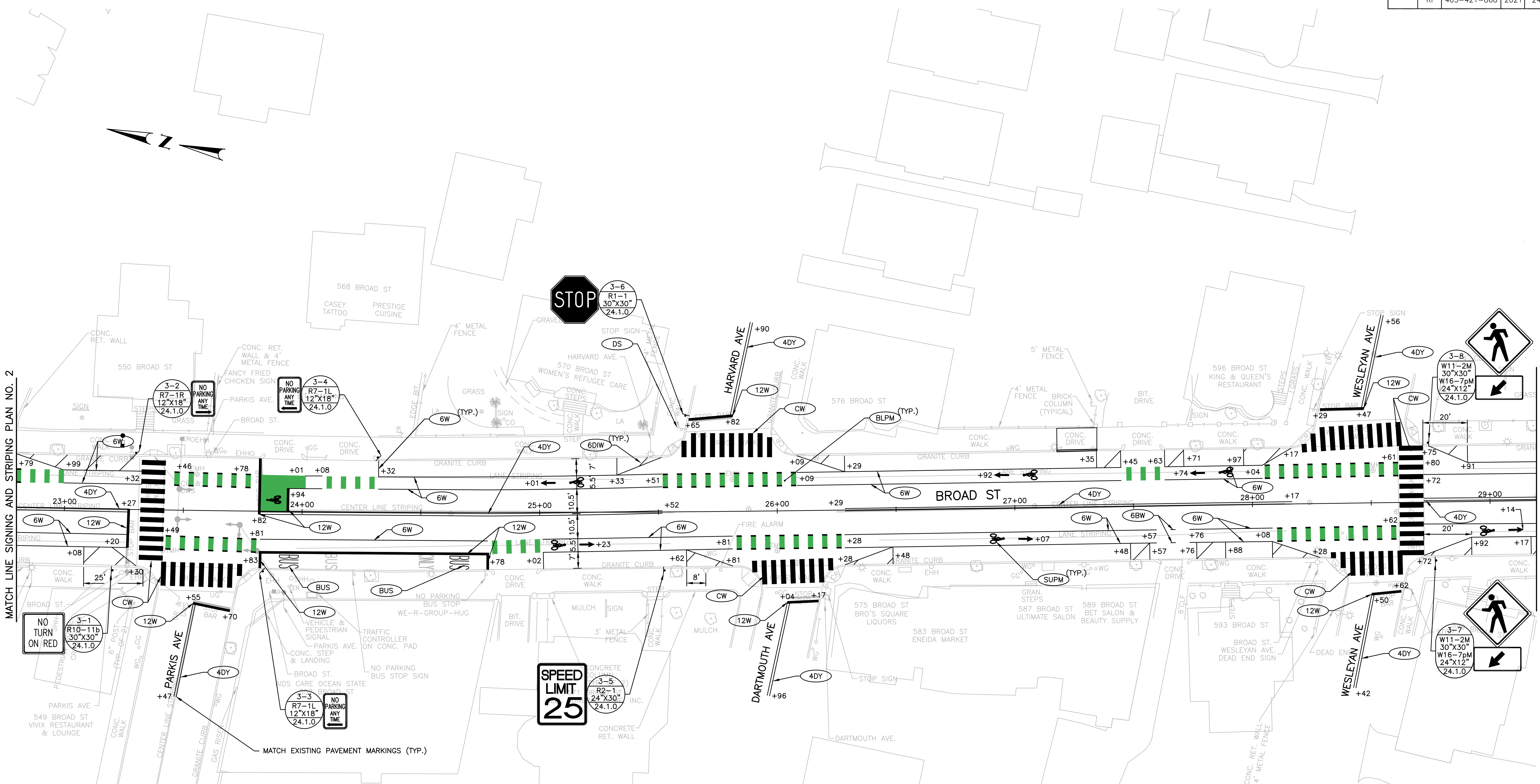
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

PHASE 2
BROAD STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

SIGNING AND STRIPING
PLAN NO. 2

CHECKED BY _____ DATE _____ SCALE 1"=20'



MATCH LINE SIGNING AND STRIPING PLAN NO. 2

MATCH LINE SIGNING AND STRIPING PLAN NO. 4

- NOTES:
- CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.
 - CONTRACTOR TO COORDINATE WITH PROVIDENCE DPW TO RELOCATE BIKE STATIONS.



REVISIONS		
NO.	DATE	BY

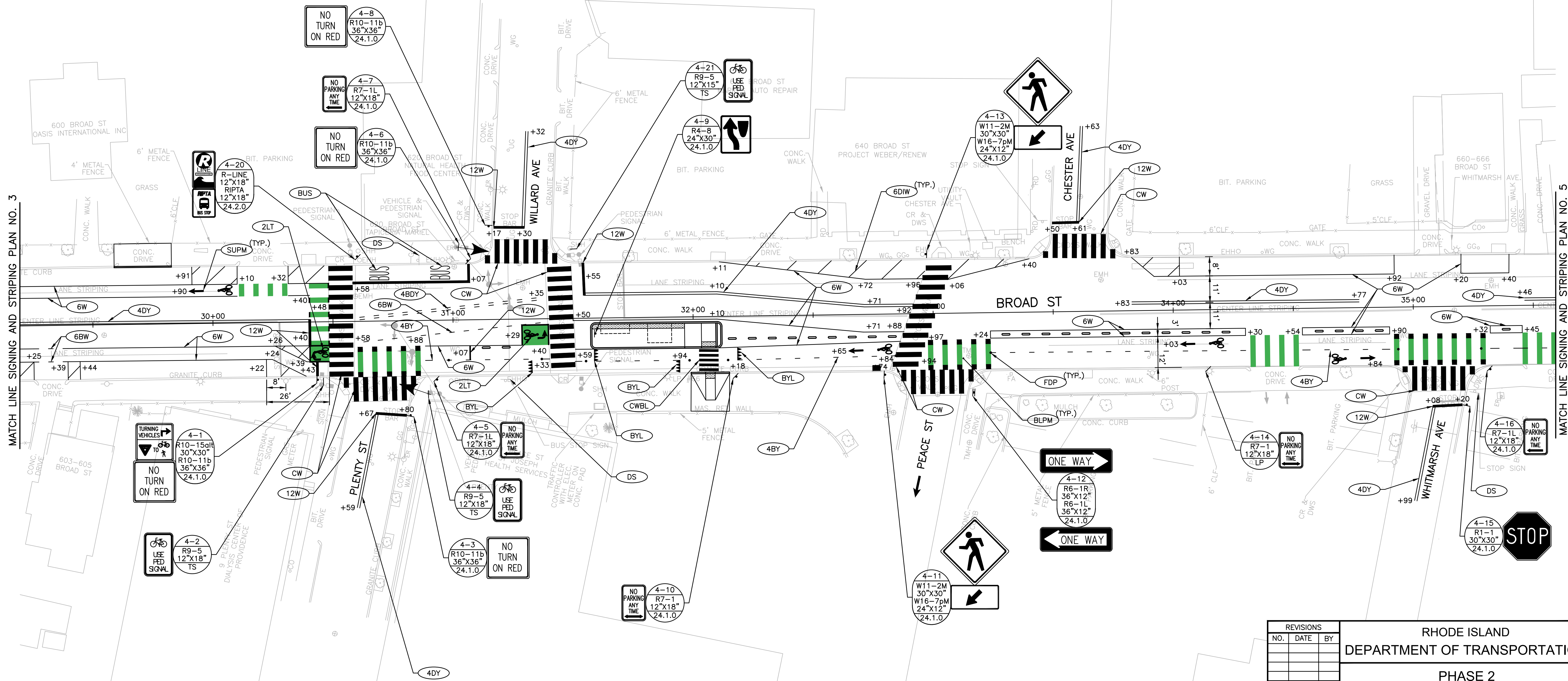
RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

 PHASE 2
 BROAD STREET IMPROVEMENTS

 PROVIDENCE, RHODE ISLAND

**SIGNING AND STRIPING
 PLAN NO. 3**

CHECKED BY _____ DATE _____ SCALE 1"=20'



MATCH LINE SIGNING AND STRIPING PLAN NO. 3

MATCH LINE SIGNING AND STRIPING PLAN NO. 5

- NOTES:
1. CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.
 2. CONTRACTOR TO COORDINATE WITH PROVIDENCE DPW TO RELOCATE BIKE STATIONS.



REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

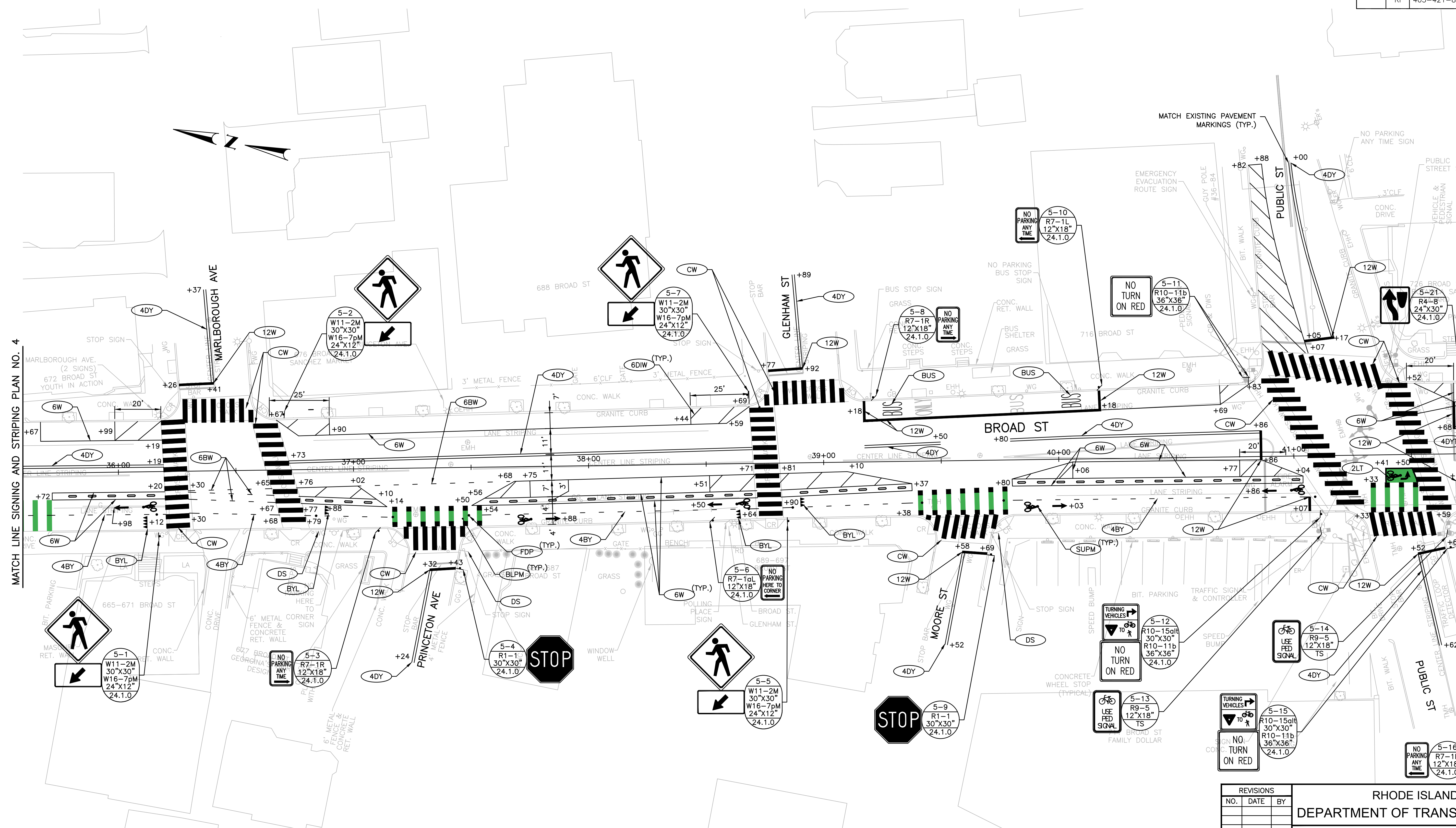
PHASE 2
BROAD STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

SIGNING AND STRIPING
PLAN NO. 4

CHECKED BY _____ DATE _____ SCALE 1"=20'





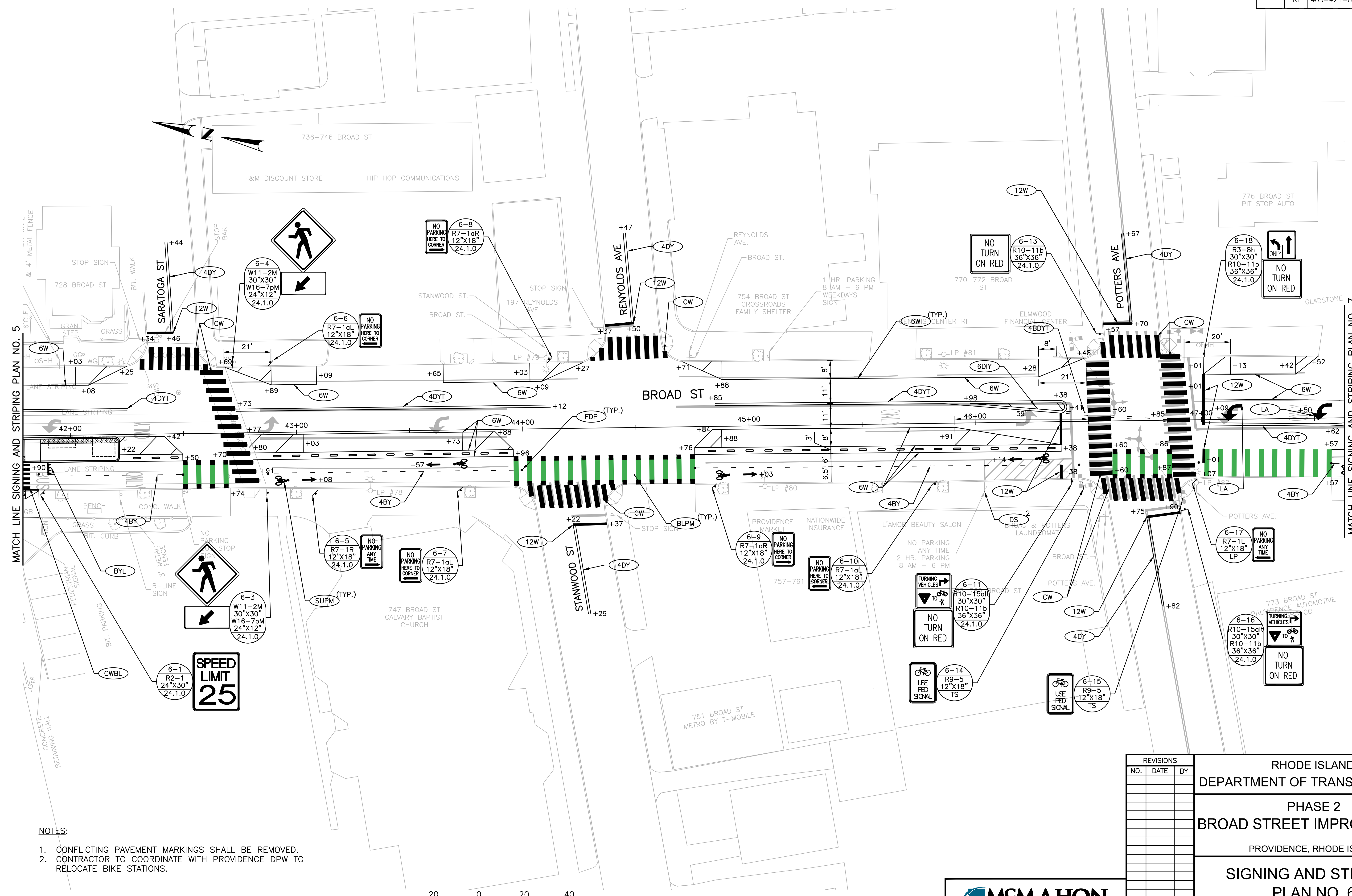
NOTES:
 1. CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.
 2. CONTRACTOR TO COORDINATE WITH PROVIDENCE DPW TO RELOCATE BIKE STATIONS.



NO.	DATE	BY

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION
PHASE 2
BROAD STREET IMPROVEMENTS
 PROVIDENCE, RHODE ISLAND
SIGNING AND STRIPING
 PLAN NO. 5

CHECKED BY _____ DATE _____ SCALE 1"=20'



MATCH LINE SIGNING AND STRIPING PLAN NO. 5

MATCH LINE SIGNING AND STRIPING PLAN NO. 7

NOTES:

1. CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.
2. CONTRACTOR TO COORDINATE WITH PROVIDENCE DPW TO RELOCATE BIKE STATIONS.



REVISIONS		
NO.	DATE	BY

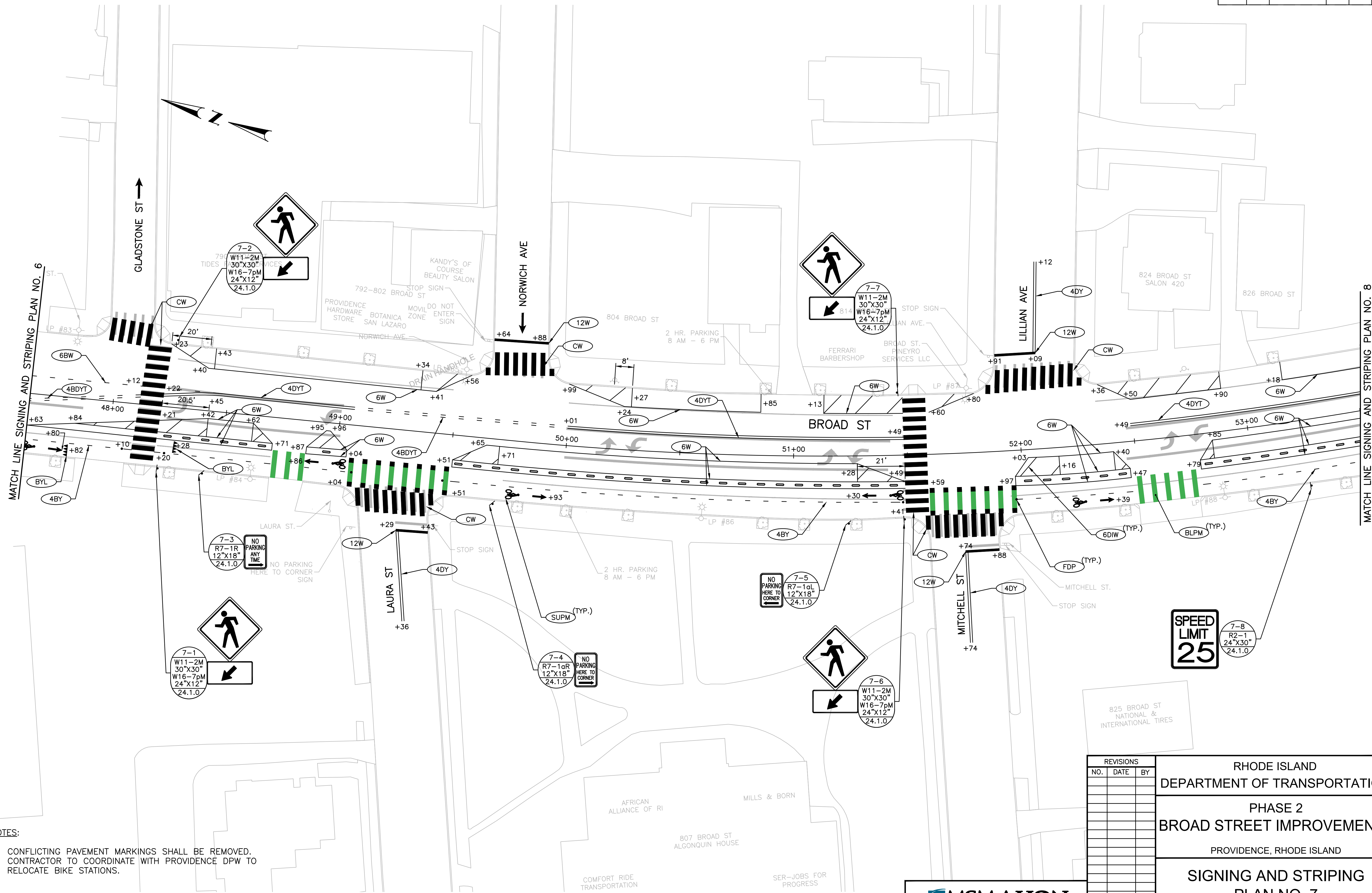
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

PHASE 2
BROAD STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

**SIGNING AND STRIPING
PLAN NO. 6**

CHECKED BY _____ DATE _____ SCALE 1"=20'



MATCH LINE SIGNING AND STRIPING PLAN NO. 6

MATCH LINE SIGNING AND STRIPING PLAN NO. 8

NOTES:

1. CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.
2. CONTRACTOR TO COORDINATE WITH PROVIDENCE DPW TO RELOCATE BIKE STATIONS.



REVISIONS		
NO.	DATE	BY

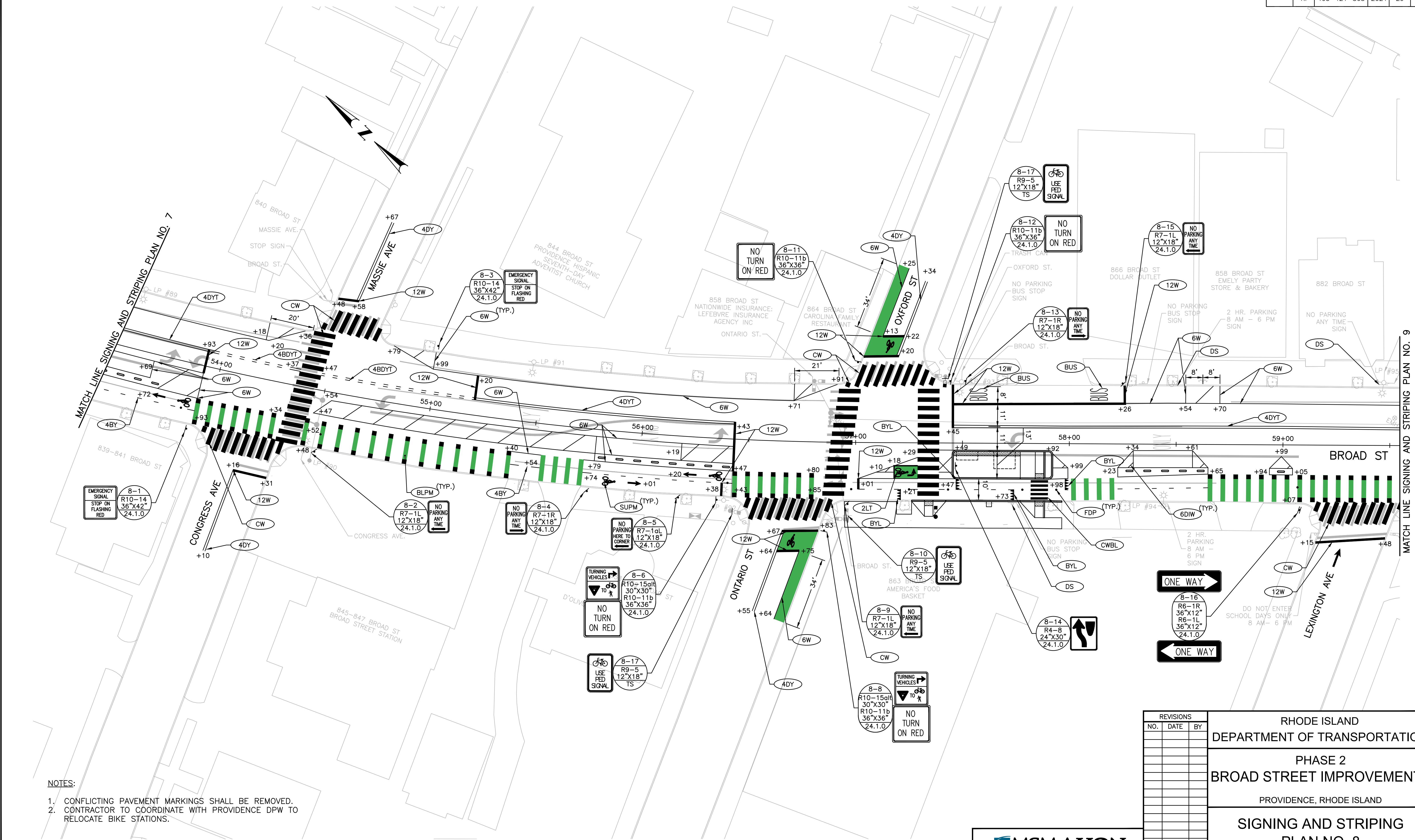
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

PHASE 2
BROAD STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

**SIGNING AND STRIPING
PLAN NO. 7**

CHECKED BY _____ DATE _____ SCALE 1"=20'



- NOTES:
1. CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.
 2. CONTRACTOR TO COORDINATE WITH PROVIDENCE DPW TO RELOCATE BIKE STATIONS.



REVISIONS		
NO.	DATE	BY

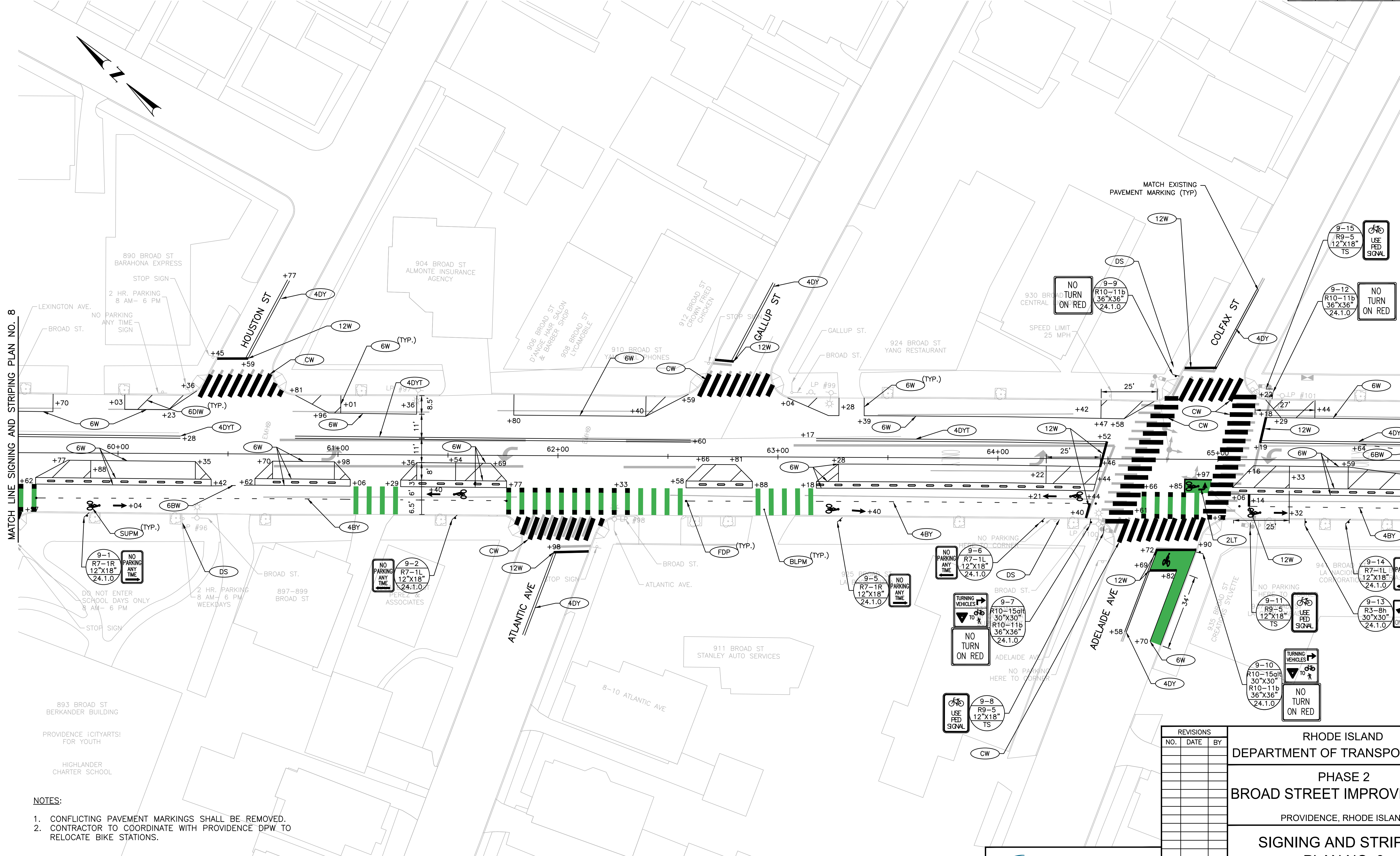
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

PHASE 2
BROAD STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

**SIGNING AND STRIPING
PLAN NO. 8**

CHECKED BY _____ DATE _____ SCALE 1"=20'



MATCH LINE SIGNING AND STRIPING PLAN NO. 8

MATCH LINE SIGNING AND STRIPING PLAN NO. 10

- NOTES:**
1. CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.
 2. CONTRACTOR TO COORDINATE WITH PROVIDENCE DPW TO RELOCATE BIKE STATIONS.



REVISIONS		
NO.	DATE	BY

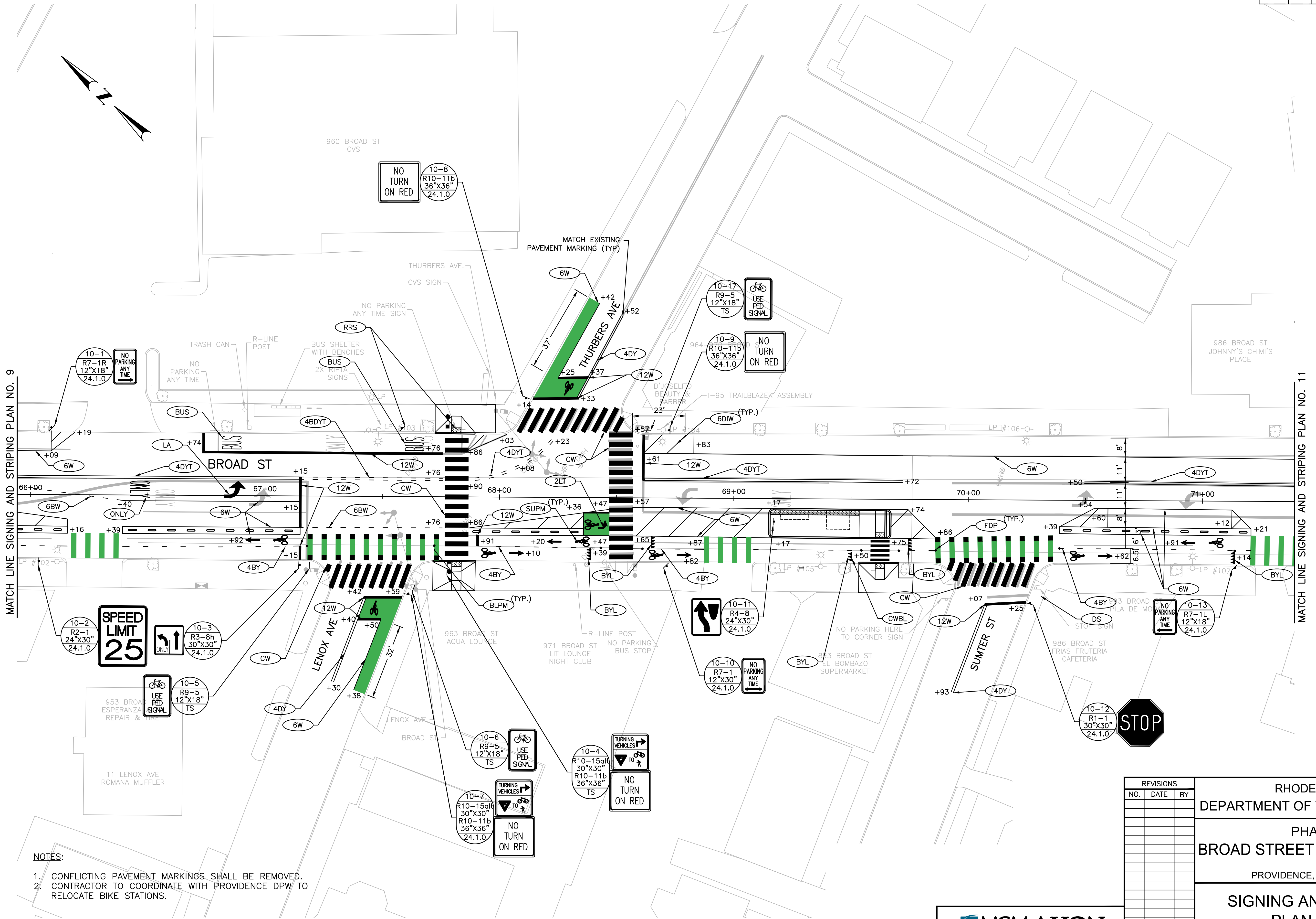
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

PHASE 2
BROAD STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

**SIGNING AND STRIPING
PLAN NO. 9**

CHECKED BY _____ DATE _____ SCALE 1"=20'



MATCH LINE SIGNING AND STRIPING PLAN NO. 9

MATCH LINE SIGNING AND STRIPING PLAN NO. 11

- NOTES:
1. CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.
 2. CONTRACTOR TO COORDINATE WITH PROVIDENCE DPW TO RELOCATE BIKE STATIONS.



REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

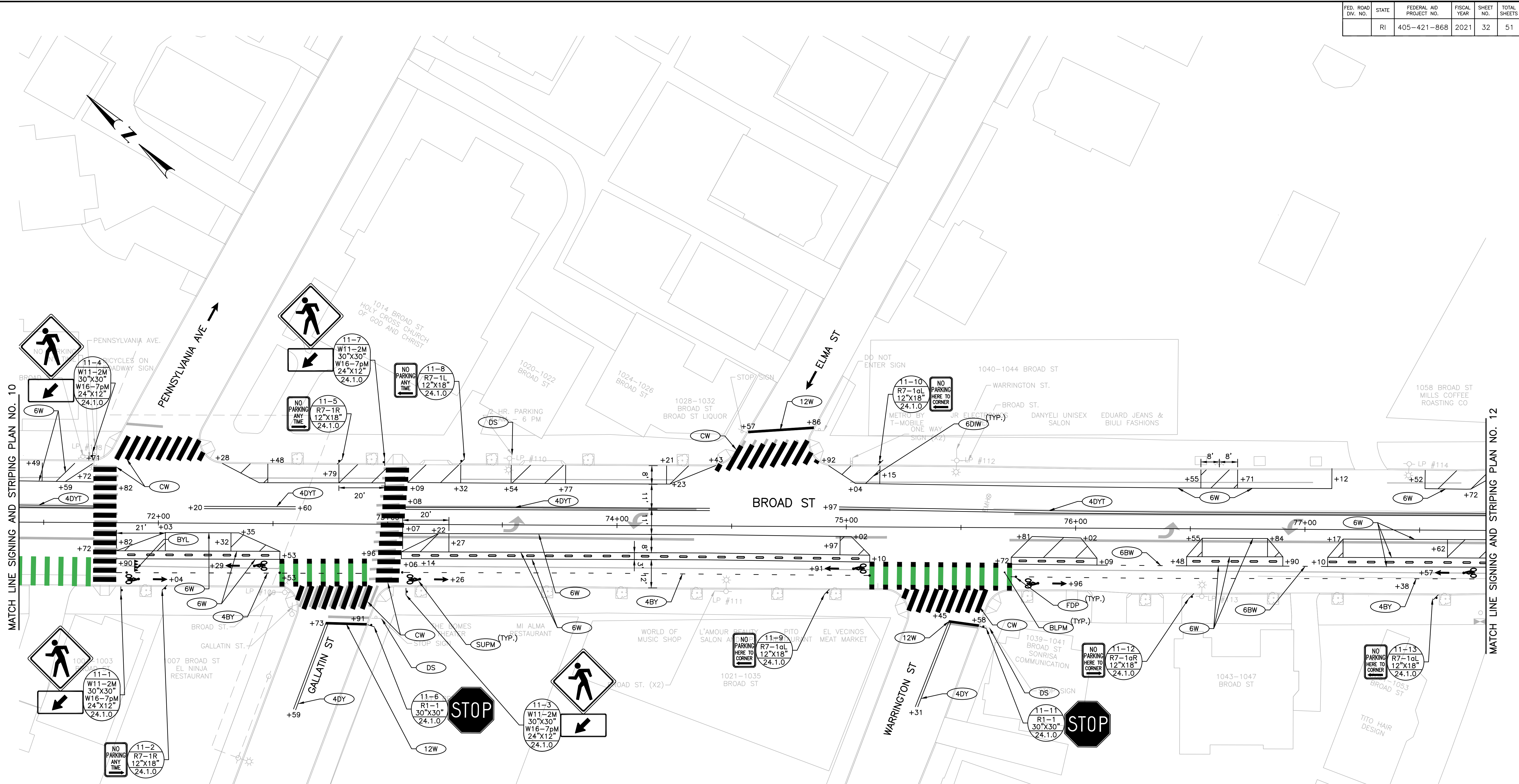
PHASE 2
BROAD STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

SIGNING AND STRIPING
PLAN NO. 10

CHECKED BY _____ DATE _____ SCALE 1"=20'





- NOTES:
1. CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.
 2. CONTRACTOR TO COORDINATE WITH PROVIDENCE/DPW TO RELOCATE BIKE STATIONS.



REVISIONS		
NO.	DATE	BY

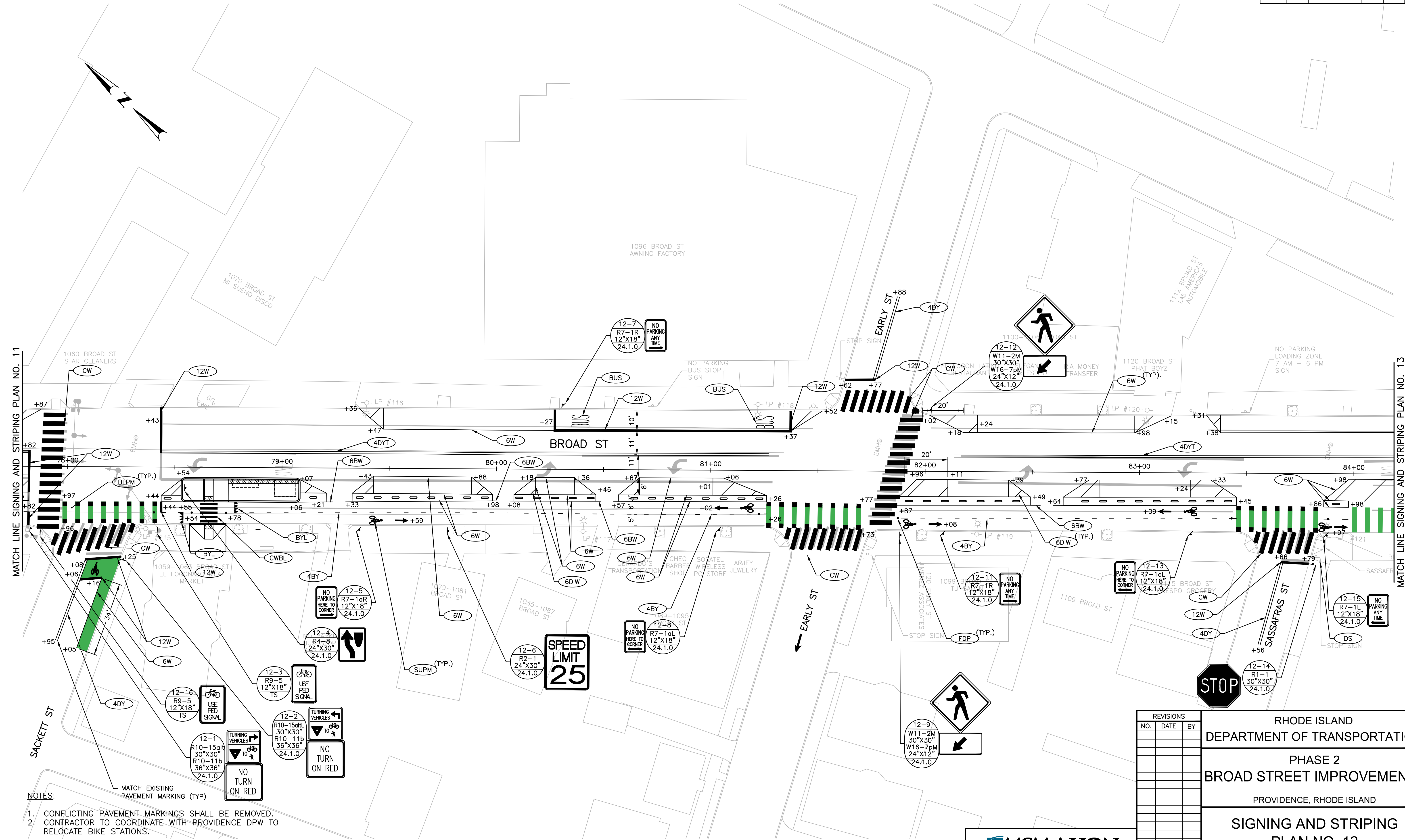
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

PHASE 2
BROAD STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

SIGNING AND STRIPING
PLAN NO. 11

CHECKED BY _____ DATE _____ SCALE 1"=20'



MATCH LINE SIGNING AND STRIPING PLAN NO. 11

MATCH LINE SIGNING AND STRIPING PLAN NO. 13

- NOTES:
1. CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.
 2. CONTRACTOR TO COORDINATE WITH PROVIDENCE DPW TO RELOCATE BIKE STATIONS.



REVISIONS		
NO.	DATE	BY

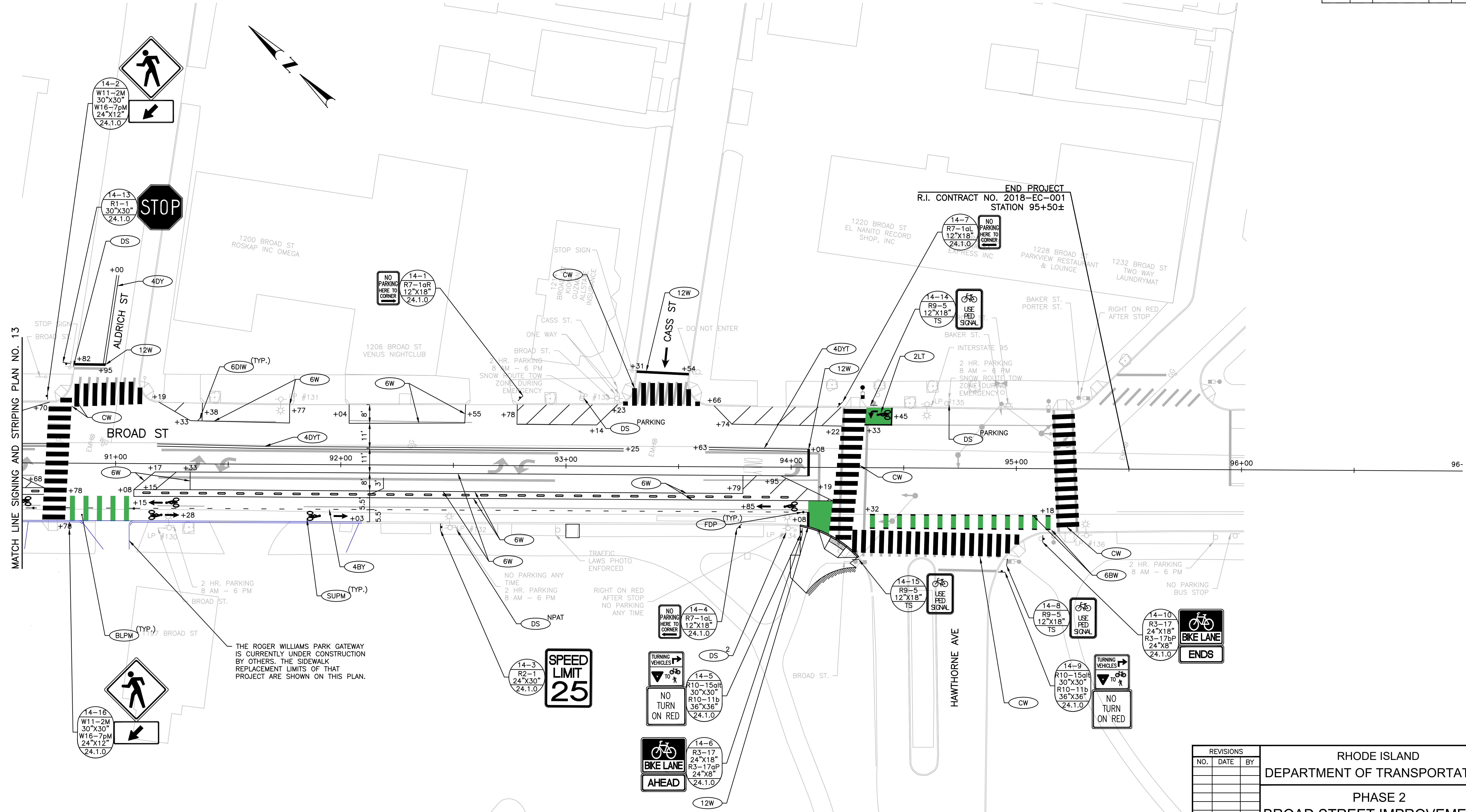
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

PHASE 2
BROAD STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

SIGNING AND STRIPING
PLAN NO. 12

CHECKED BY _____ DATE _____ SCALE 1"=20'



- NOTES:
1. CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.
 2. CONTRACTOR TO COORDINATE WITH PROVIDENCE DPW TO RELOCATE BIKE STATIONS.



REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION PHASE 2 BROAD STREET IMPROVEMENTS PROVIDENCE, RHODE ISLAND SIGNING AND STRIPING PLAN NO. 14
NO.	DATE	BY	
CHECKED BY _____ DATE _____ SCALE 1"=20'			XXXXX_V1_035_PM&S014

DETECTOR NO.	NO. SECTION / SIZE	RELAY NUMBER	SLOT	DELAY (SEC)	CALL PHASE	REMARKS
1	1-6'x20'	1	2	5	ø1	EXISTING
2	1-6'x40'	1	2	3	ø2	EXISTING
3	1-6'x40'	1	2	3	ø2	EXISTING
4	1-6'x20'	1	2	5	ø1	EXISTING

	PLAN 1	PLAN 2
CYCLE LENGTH	90	100
OFFSET	0	25
SPLIT ø1	25	33
SPLIT ø2	43	45
SPLIT ø3	22	22
COORDINATED PHASE	ø2	ø2
PLAN 1 - MONDAY-FRIDAY 7:00AM-10:00AM		
PLAN 2 - ALL DAYS 2:00PM-6:00PM		
FREE - ALL OTHER TIMES		

TRAFFIC SIGNAL CONSTRUCTION NOTES:

- THE EXISTING CONDUIT NETWORK SHOWN ON THIS PLAN IS BASED ON ASSUMED LOCATIONS AND SIZES. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDUIT LOCATIONS AND SIZES FOR ACCURACY AND ADEQUACY PRIOR TO PERFORMING THE WORK.
- PHASING CHANGES TO BE IMPLEMENTED IN CONTROLLER AND OTHER SIGNAL EQUIPMENT IN CABINET.

NOTES:

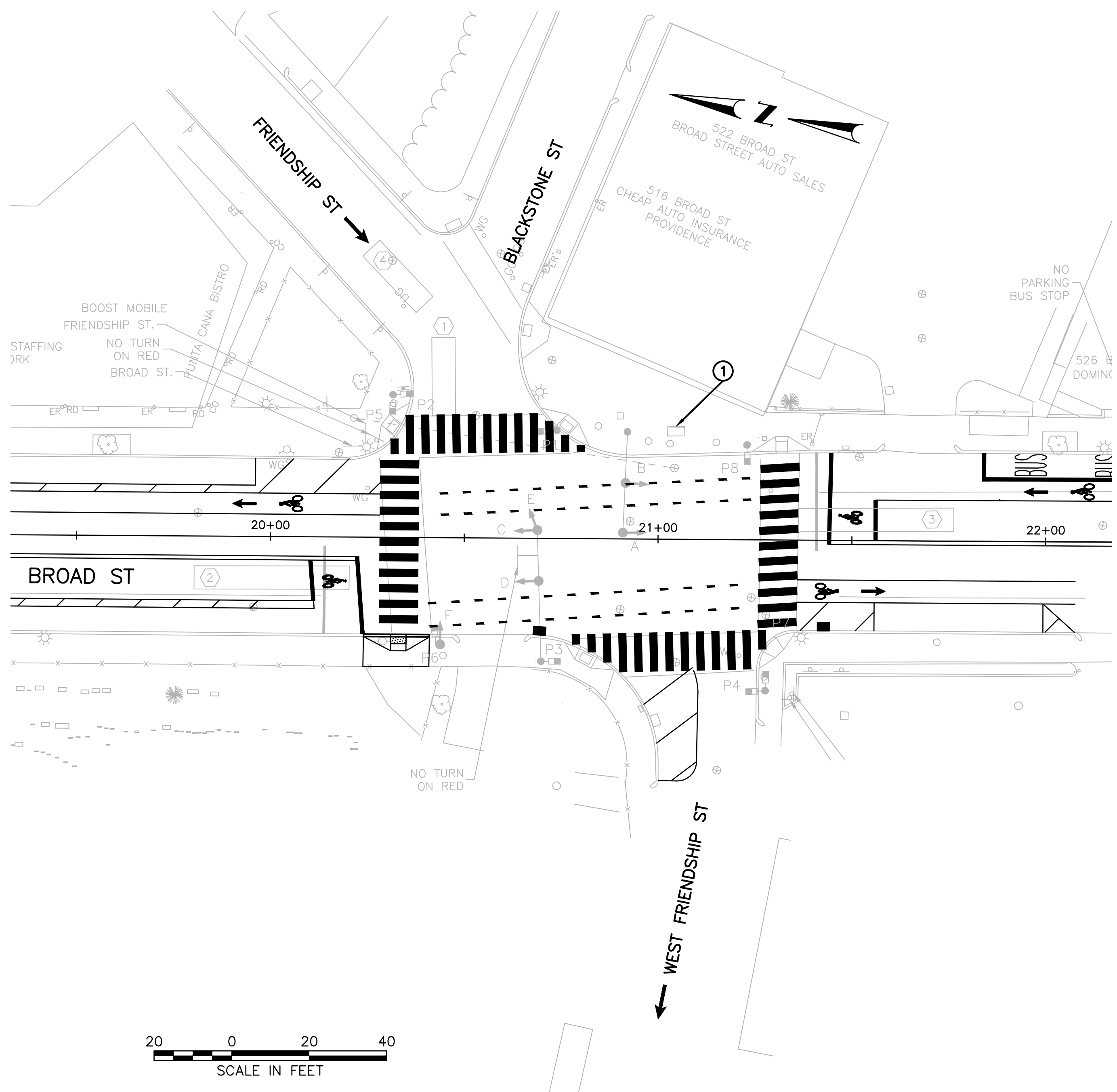
- ø2 "CALL NON ACTUATED" DURING COORDINATION.
- OFFSET: BEGINNING OF ø2 GREEN.
- PLAN FORCE OFF/FLOATING FORCE OFF SHALL BE IN EFFECT.
- SPLIT TIMES EQUAL GREEN PLUS CLEARANCES.
- INHIBIT MAX. TERMINATION SHALL BE IN EFFECT DURING COORDINATION.
- PHASE 1 TO BE ON PED. RECALL DURING COORDINATION.

			ø1											ø2											ø3											
STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	10	11	FLASH OPER.
BROAD STREET	N.B.	A,B	R	R	R	R	R	G	Y	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FY
BROAD STREET	S.B.	C,D	R	R	R	R	R	R	G	Y	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FY
FRIENDSHIP STREET	W.B.	E,F	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FR
PEDESTRIANS	N.B./S.B.	P1-P4	DW	DW	DW	DW	W	W/FDW	DW	DW	DW	DW	DW	W	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OUT
PEDESTRIANS	E.B./W.B.	P5-P6	W	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OUT
PEDESTRIANS	E.B./W.B.	P7-P8	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OUT

	ø1			ø2			ø3			EMERGENCY ONLY
MINIMUM INTERVAL	5					10				
VEHICLE EXTENSION	2.4					2.6				
MAXIMUM I	15					33				
MAXIMUM II	21					52				
YELLOW CLEARANCE		3				3				
RED CLEARANCE			2				2			
WALK	4					3			7	
PEDESTRIAN CLEARANCE		3/10				4/9			11	
RECALL	PED			PED			OFF			
MEMORY	NON-LOCK			NON-LOCK			NON-LOCK			

SEQUENCE AND TIMING NOTES:

- FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.28-4D.31
- MAXIMUM 1 = ALL TIMES
- MAXIMUM 2 NOT USED
- ø3 PEDESTRIAN PHASE UPON PUSHBUTTON ACTIVATION ONLY.
- CONCURRENT PEDESTRIAN PHASES TO BE REST IN WALK OPERATION.



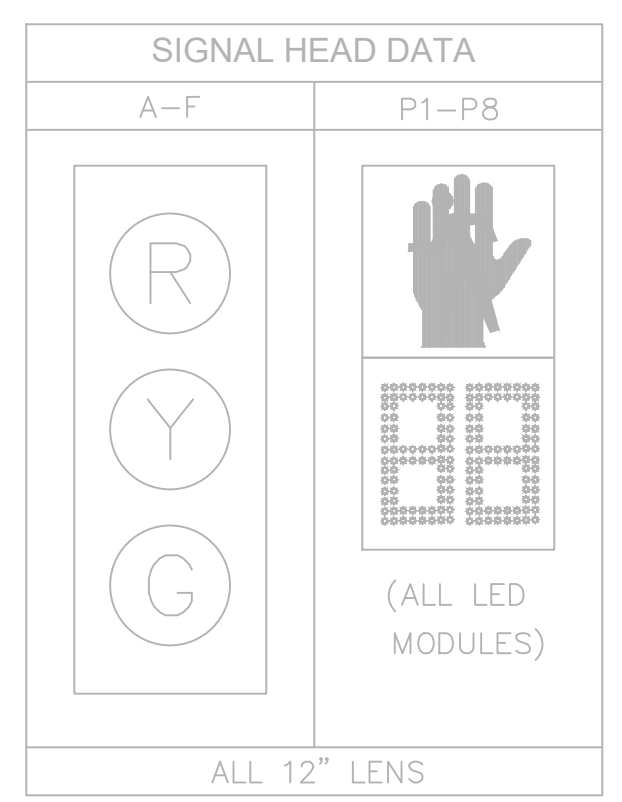
NO.	ITEM CODE	SYMBOL	ITEM DESCRIPTION
1	T12.9901		TRAFFIC SIGNAL CONTROLLER MODIFICATIONS

OPTICAL DETECTOR CONFIRMATION BEACON SPACING:

BEACON LOCATION	DISTANCE FROM CENTER OF MAST ARM POLE
NW CORNER	27.0'

OPTICAL DETECTOR SPACING:

RECEIVER NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
D1	24.5'
D2	24.0'
D3	28.5'



NOTE: ALL TRAFFIC AND PEDESTRIAN SIGNAL HEADS ARE EXISTING.



REVISIONS		
NO.	DATE	BY

**RHODE ISLAND
DEPARTMENT OF TRANSPORTATION**

**PHASE 2
BROAD STREET IMPROVEMENTS**

PROVIDENCE, RHODE ISLAND

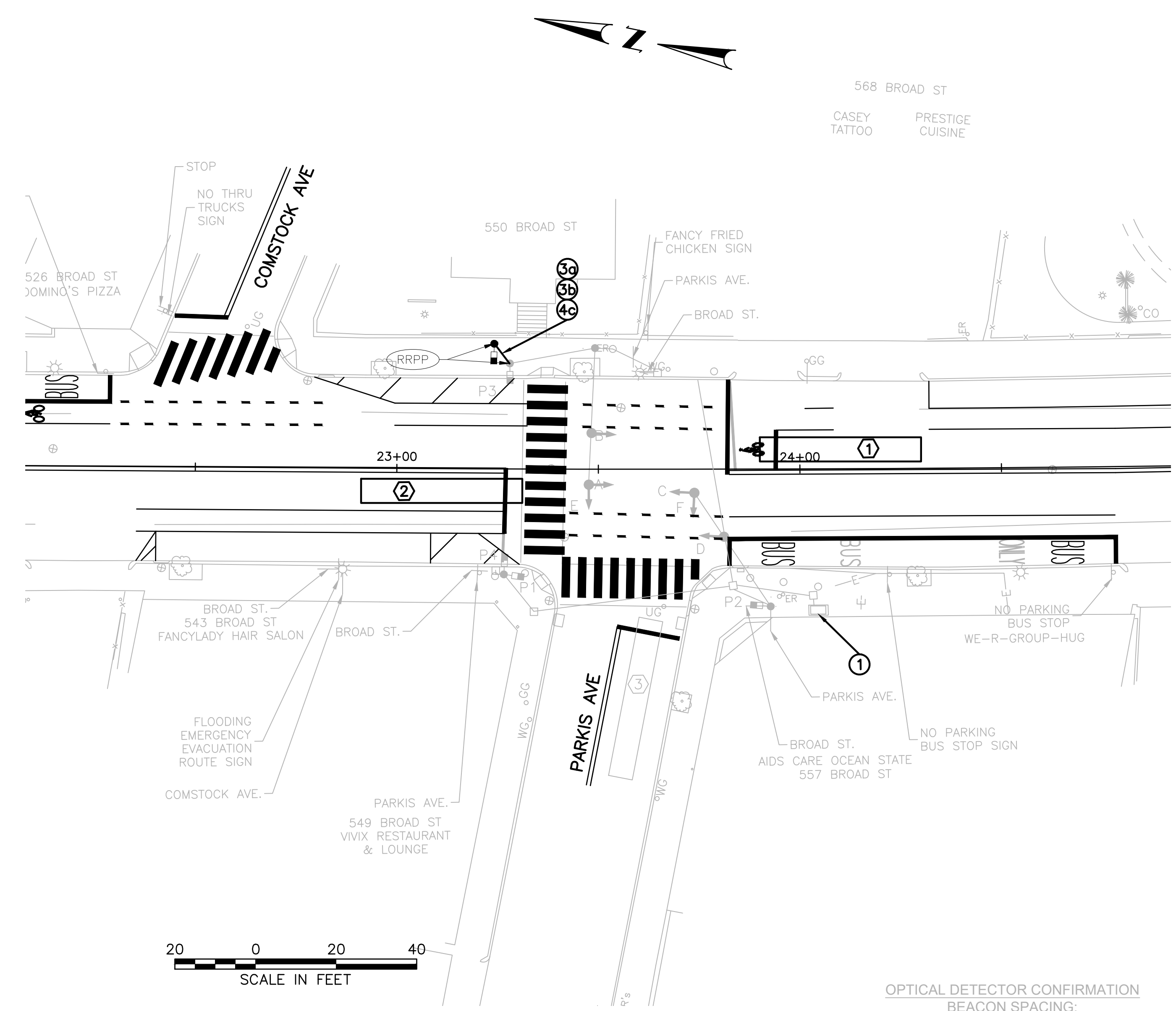
SIGNAL PLAN NO. 1
BROAD STREET/FRIENDSHIP STREET INTERSECTION

CHECKED BY _____ DATE _____ SCALE 1"=20'

XXXXX_V1_050_SIGNAL001

COORDINATION DATA:		
(ALL ENTRIES IN SECONDS)		
	PLAN 1	PLAN 2
CYCLE LENGTH	90	100
OFFSET	88	8
SPLIT Ø1	66	75
SPLIT Ø2	24	25
COORDINATED PHASE	Ø1	Ø1
PLAN 1 - MONDAY-FRIDAY 7:00AM-10:00AM		
PLAN 2 - ALL DAYS 2:00PM-6:00PM		
FREE - ALL OTHER TIMES		

- NOTES:**
- Ø1 "CALL NON ACTUATED" DURING COORDINATION.
 - OFFSET: BEGINNING OF Ø1 GREEN.
 - PLAN FORCE OFF/FLOATING FORCE OFF SHALL BE IN EFFECT.
 - SPLIT TIMES EQUAL GREEN PLUS CLEARANCES.
 - INHIBIT MAX. TERMINATION SHALL BE IN EFFECT DURING COORDINATION.
 - PHASE 2 TO BE ON PED. RECALL DURING COORDINATION.



PAVEMENT MARKING NOTES:

- PAVEMENT MARKINGS SHOWN ON THIS PLAN SHALL BE SUPERCEDED BY THE PAVEMENT MARKINGS SHOWN IN THE BROAD STREET IMPROVEMENTS - RESURFACING PLAN SET, RESURFACING PLAN NO. 3.

TRAFFIC SIGNAL CONSTRUCTION NOTES:

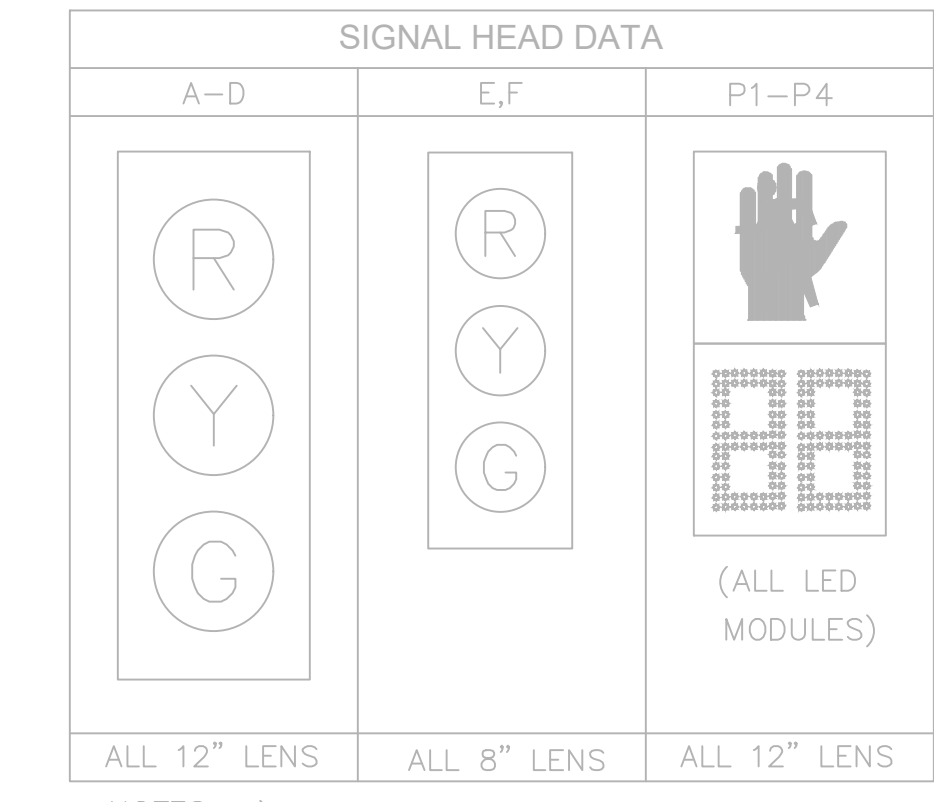
- THE EXISTING CONDUIT NETWORK SHOWN ON THIS PLAN IS BASED ON ASSUMED LOCATIONS AND SIZES. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDUIT LOCATIONS AND SIZES FOR ACCURACY AND ADEQUACY PRIOR TO PERFORMING THE WORK.
- VIDEO DETECTION ZONES TO BE ADJUSTED IN THE FIELD AS SHOWN.

SEQUENCE AND TIMING											
STREET	DIRECTION	HOUSINGS	PHASES								FLASH OPER.
			1	2	3	4	5	6	7	8	
BROAD STREET	N.B.	A,B	R	G	Y	R	R	R	R	R	FY
BROAD STREET	S.B.	C,D	R	G	Y	R	R	R	R	R	FY
PARKIS AVENUE	E.B.	E,F	R	R	R	R	R	G	Y	R	FR
PEDESTRIANS	N.B./S.B.	P1-P2	W	W/FDW	DW	DW	DW	DW	DW	DW	OUT
PEDESTRIANS	E.B./W.B.	P3-P4	DW	DW	DW	DW	W	W/FDW	DW	DW	OUT

TIMING IN SECONDS											
			PHASES								EMERGENCY ONLY
			1	2	3	4	5	6	7	8	
MINIMUM INTERVAL				10					6		
VEHICLE EXTENSION				2.4					2.4		
MAXIMUM I				28					16		
MAXIMUM II				48					16		
YELLOW CLEARANCE					3					3	
RED CLEARANCE						1					1.5
WALK			3				4				
PEDESTRIAN CLEARANCE				4/7					3/10		
RECALL			PED				PED				
MEMORY			NON-LOCK				NON-LOCK				

SEQUENCE AND TIMING NOTES:

- FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.28-4D.31
- MAXIMUM 1 = ALL TIMES
- MAXIMUM 2 = NOT USED
- CONCURRENT PEDESTRIAN PHASES TO BE REST IN WALK OPERATION.



NOTES:

- ALL TRAFFIC SIGNAL HEADS ARE EXISTING.
- ALL PEDESTRIAN SIGNAL HEADS ARE PROPOSED.

VIDEO DETECTOR DATA					
DETECTOR ZONE NO.	CAMERA NUMBER	APPROX. SIZE DET. ZONE	DELAY (SEC)	CALL PHASE	REMARKS
1	1	6'x40'	3	Ø1	PROPOSED
2	2	6'x40'	3	Ø1	PROPOSED
3	3	6'x40'	3	Ø2	EXISTING

OPTICAL DETECTOR CONFIRMATION BEACON SPACING:

BEACON LOCATION	DISTANCE FROM CENTER OF MAST ARM POLE
NE CORNER	5.0'

OPTICAL DETECTOR SPACING:

RECEIVER NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
D1	10.0'
D2	24.0'
D3	24.0'

VIDEO DETECTION CAMERA SPACING:

CAMERA NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
1	12.0'
2	19.0'
3	ON SHAFT

NO.	ITEM CODE	SYMBOL	ITEM DESCRIPTION
1	T12.9901		TRAFFIC SIGNAL CONTROLLER MODIFICATIONS
3a	T04.5303		14 AWG 3 CONDUCTOR CABLE
3b	T04.5305		14 AWG 5 CONDUCTOR CABLE
4c	T06.5130		3 INCH SCHEDULE 40 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDERGROUND
	RRPP T11.9902		REMOVE AND RELOCATE PEDESTAL POLE



REVISIONS		
NO.	DATE	BY

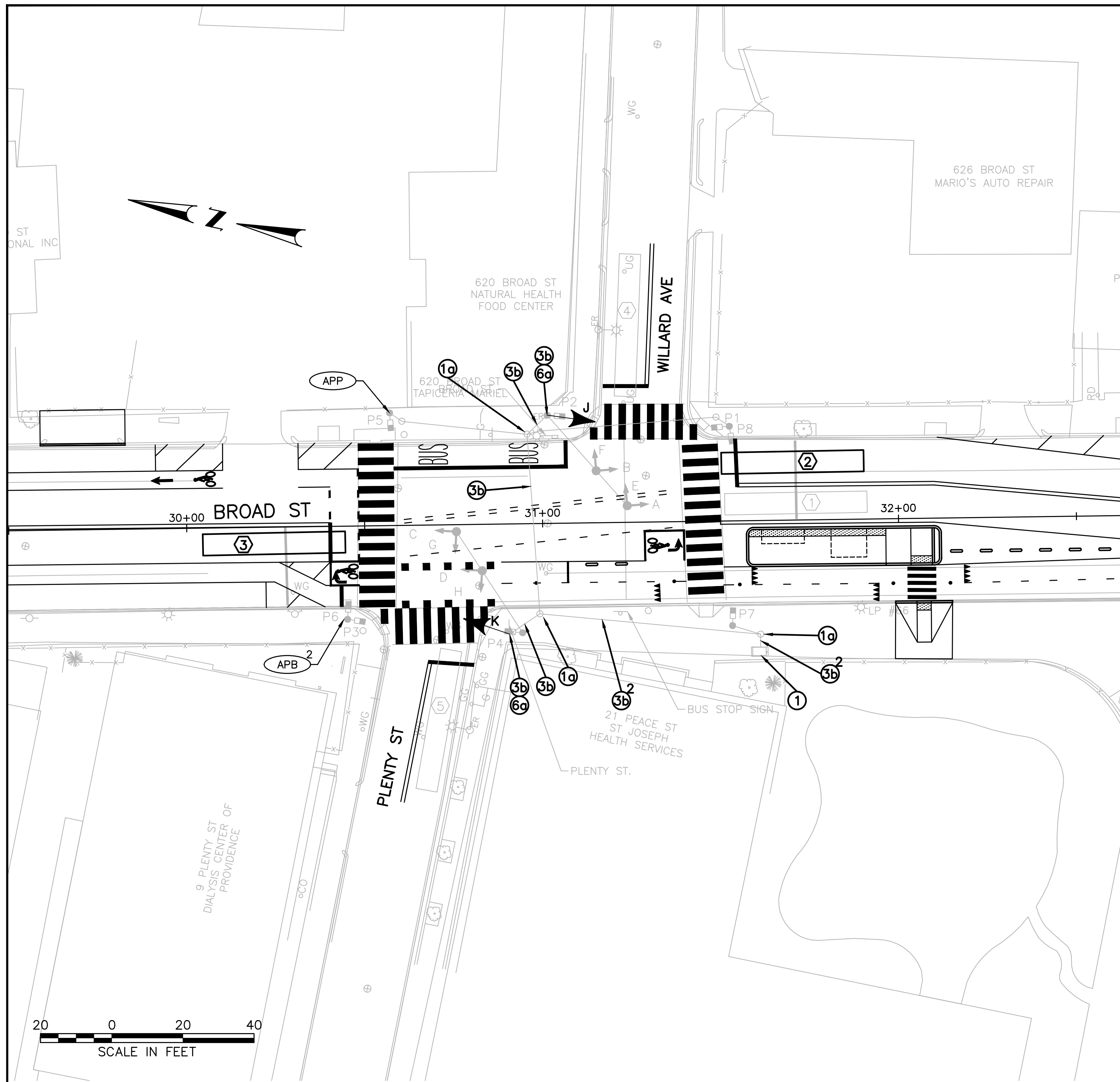
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

PHASE 2
BROAD STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

SIGNAL PLAN NO. 2
BROAD STREET/PARKIS AVENUE INTERSECTION

CHECKED BY _____ DATE _____ SCALE 1"=20'



SIGNAL HEAD DATA		
A-D, J, K	E-H	P1-P8
ALL 12" LENS	ALL 8" LENS	ALL 12" LENS

NO.	ITEM CODE	SYMBOL	ITEM DESCRIPTION
1	T12.9901		TRAFFIC SIGNAL CONTROLLER MODIFICATIONS
1a	T05.0400		BREAK INTO EXISTING HANDHOLE
3b	T04.5305		14 AWG 5 CONDUCTOR CABLE
6a	T14.3613		1 WAY 3 SECTION BRACKET MOUNTED SIGNAL HEAD 12 INCH
APP	T11.9901		ADJUST PEDESTAL POLE TO GRADE
APB	T13.9902		ADJUST PEDESTRIAN PUSHBUTTON VERTICALLY ON POLE

TRAFFIC SIGNAL CONSTRUCTION NOTES:

- THE EXISTING CONDUIT NETWORK SHOWN ON THIS PLAN IS BASED ON ASSUMED LOCATIONS AND SIZES. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDUIT LOCATIONS AND SIZES FOR ACCURACY AND ADEQUACY PRIOR TO PERFORMING THE WORK.
- VIDEO DETECTION ZONES TO BE ADJUSTED IN THE FIELD AS SHOWN.
- DETECTION ZONE 1 TO BE DELETED.
- PROPOSED SIGNAL HEADS SHALL BE EQUIPPED WITH RETROREFLECTIVE BACKPLATES.

- NOTES: 1) ALL TRAFFIC SIGNAL HEADS ARE EXISTING.
 2) ALL PEDESTRIAN SIGNAL HEADS ARE PROPOSED.
 3) TRAFFIC SIGNAL HEADS J AND K ARE PROPOSED.

SEQUENCE AND TIMING

STREET	DIRECTION	HOUSINGS	Ø1				Ø2				FLASH OPER.	
			1	2	3	4	5	6	7	8		
BROAD STREET	N.B.	A,B,J	R	G	Y	R	R	R	R	R	R	FY
BROAD STREET	S.B.	C,D,K	R	G	Y	R	R	R	R	R	R	FY
WILLARD AVENUE	W.B.	E,F	R	R	R	R	R	G	Y	R	R	FR
PLENTY STREET	E.B.	G,H	R	R	R	R	R	G	Y	R	R	FR
PEDESTRIANS	N.B./S.B.	P1-P4	W	W/FDW	DW	DW	DW	DW	DW	DW	DW	OUT
PEDESTRIANS	E.B./W.B.	P5-P8	DW	DW	DW	DW	W	W/FDW	DW	DW	DW	OUT

TIMING IN SECONDS											
MINIMUM INTERVAL			10					6			EMERGENCY ONLY
VEHICLE EXTENSION			2.4					2.4			
MAXIMUM I			31					17			
MAXIMUM II			46					17			
YELLOW CLEARANCE					3				3		
RED CLEARANCE						2				2	
WALK			3					4			
PEDESTRIAN CLEARANCE			4/4					3/10			
RECALL						PED				PED	
MEMORY						NON-LOCK				NON-LOCK	

SEQUENCE AND TIMING NOTES:

- FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.28-4D.31
- MAXIMUM 1 = ALL OTHER TIMES
- MAXIMUM 2 = 10 AM-6PM WEEKDAYS
2 PM-6PM WEEKENDS
- CONCURRENT PEDESTRIAN PHASES TO BE REST IN WALK OPERATION.

SIGNAL HEAD SPACING:

SIGNAL HEAD	APPROXIMATE DISTANCE FROM CENTER OF MAST ARM POLE		RELOCATED DISTANCE
	EXISTING	PROPOSED	
A	38.0'	-	-
B	26.0'	22.0'	4.0'
C	38.0'	37.0'	1.0'
D	24.0'	20.0'	4.0'
E	38.0'	-	-
F	26.0'	22.0'	4.0'
G	38.0'	37.0'	1.0'
H	24.0'	20.0'	4.0'
J	-	0.0'	0.0'
K	-	0.0'	0.0'

OPTICAL DETECTOR CONFIRMATION BEACON SPACING:

BEACON LOCATION	DISTANCE FROM CENTER OF MAST ARM POLE
NE CORNER	19.5'
SW CORNER	12.0'

OPTICAL DETECTOR SPACING:

RECEIVER NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
D1	30.0'
D2	30.0'
D3	30.0'
D4	21.0'

VIDEO DETECTOR DATA

DETECTOR ZONE NO.	CAMERA NUMBER	APPROX. SIZE DET. ZONE	DELAY (SEC)	CALL PHASE	REMARKS
1	1	6'x40'	3	Ø1	EXISTING
2	1	6'x40'	3	Ø1	PROPOSED
3	2	6'x40'	3	Ø1	PROPOSED
4	3	6'x40'	3	Ø2	EXISTING
5	4	6'x40'	3	Ø2	EXISTING

VIDEO DETECTION CAMERA SPACING:

CAMERA NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
1	ON SHAFT
2	22.0'
3	24.5'
4	17.0'

REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

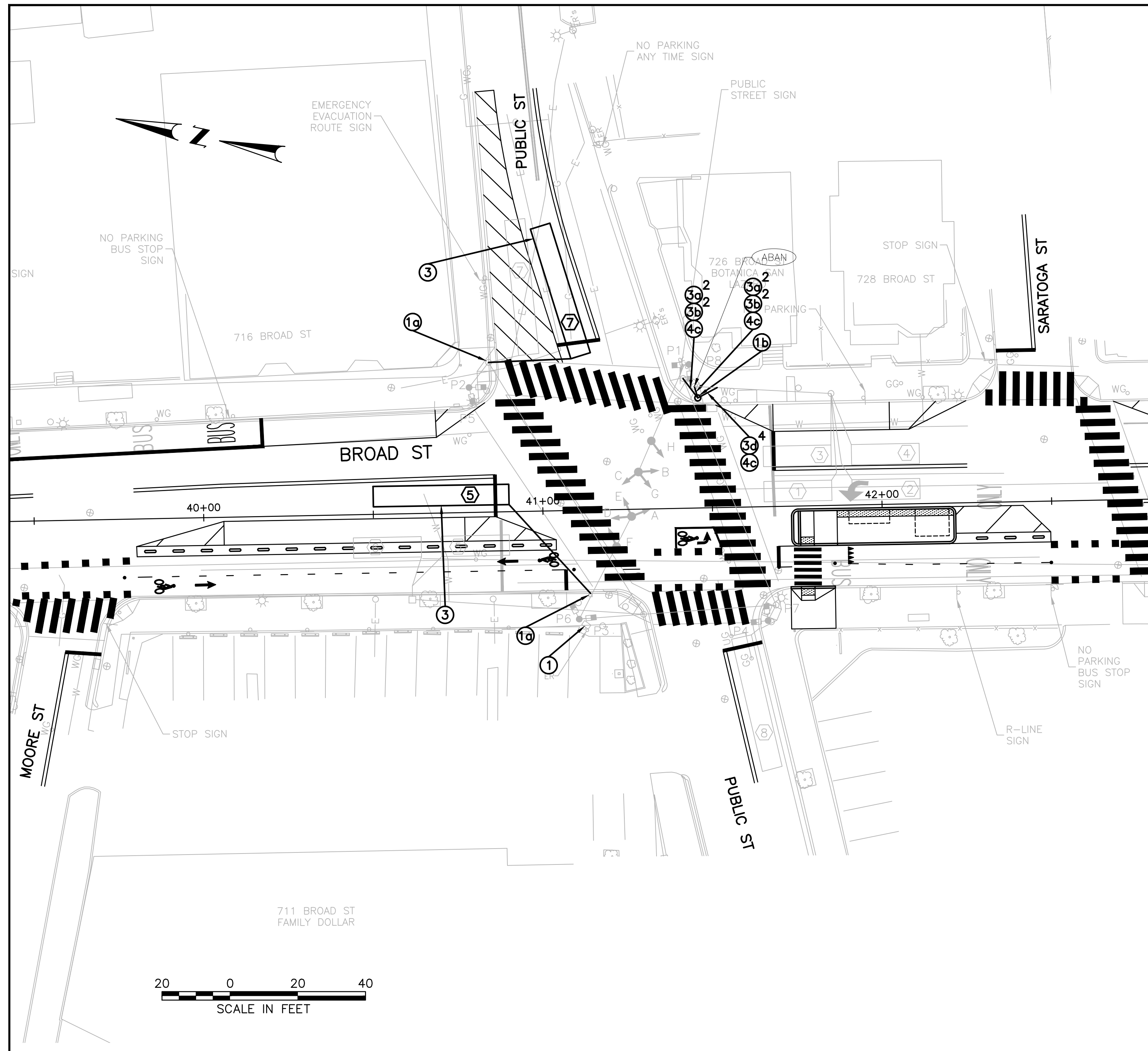
**PHASE 2
BROAD STREET IMPROVEMENTS**

PROVIDENCE, RHODE ISLAND

SIGNAL PLAN NO. 3
BROAD STREET/PLENTY STREET INTERSECTION

CHECKED BY _____ DATE _____ SCALE 1"=20'



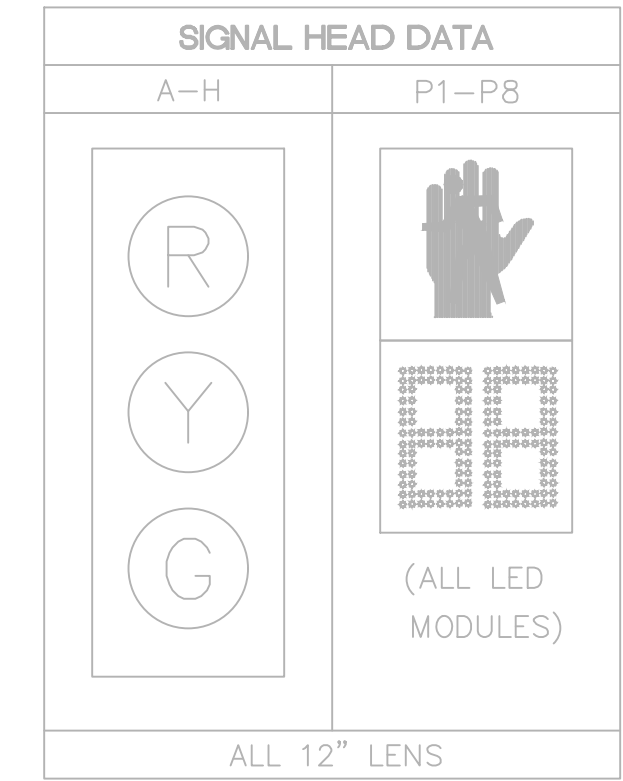


- TRAFFIC SIGNAL CONSTRUCTION NOTES:**
- THE EXISTING CONDUIT NETWORK SHOWN ON THIS PLAN IS BASED ON ASSUMED LOCATIONS AND SIZES. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDUIT LOCATIONS AND SIZES FOR ACCURACY AND ADEQUACY PRIOR TO PERFORMING THE WORK.
 - ABANDON LOOPS 1 AND 2 IN PLACE.
 - SPLICE PROPOSED LOOP DETECTOR IN ADJACENT HANDHOLE AND UTILIZE EXISTING CABLING FOR CONTROLLER CABINET.

NO.	ITEM CODE	SYMBOL	ITEM DESCRIPTION
1	T12.9901		TRAFFIC SIGNAL CONTROLLER MODIFICATIONS
1a	T05.0400	o	BREAK INTO EXISTING HANDHOLE
1b	T105.0200	o	PRECAST TYPE H HEAVY DUTY HANDHOLE
3	T13.1000	□	TRAFFIC LOOP DETECTOR
3a	T04.5303		14 AWG 3 CONDUCTOR CABLE
3b	T04.5305		14 AWG 5 CONDUCTOR CABLE
3d	T04.5302		14 AWG 2 CONDUCTOR TWISTED SHIELDED CABLE
4c	T06.5130		3 INCH SCHEDULE 40 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDERGROUND
ABAN	201.9905		ABANDON EXISTING SIGNAL HANDHOLE

SEQUENCE AND TIMING											
STREET	DIRECTION	HOUSINGS	ø1				ø2				FLASH OPER.
			1	2	3	4	5	6	7	8	
BROAD STREET	N.B.	A,B	R	G	Y	R	R	R	R	R	FY
BROAD STREET	S.B.	C,D	R	G	Y	R	R	R	R	R	FY
PUBLIC STREET	W.B.	E,F	R	R	R	R	R	G	Y	R	FR
PUBLIC STREET	E.B.	G,H	R	R	R	R	R	G	Y	R	FR
PEDESTRIANS	N.B./S.B.	P1-P4	W	W/FDW	DW	DW	DW	DW	DW	DW	OUT
PEDESTRIANS	E.B./W.B.	P5-P8	DW	DW	DW	DW	W	W/FDW	DW	DW	OUT
TIMING IN SECONDS											
MINIMUM INTERVAL				10					6		
VEHICLE EXTENSION				2.4				2.4			
MAXIMUM I				39				24			
MAXIMUM II				52				3			
YELLOW CLEARANCE					3				3		
RED CLEARANCE						1.5				2	
WALK			3				4				
PEDESTRIAN CLEARANCE				4/11				3/17			
RECALL				PED				PED			
MEMORY				NON-LOCK				NON-LOCK			

LOOP DETECTOR DATA						
DETECTOR NO.	NO. SECTION/ SIZE	RELAY NUMBER	SLOT	DELAY (SEC)	CALL PHASE	REMARKS
1	1-6'x20'	1	2	-	-	DISABLE
2	1-6'x20'	1	2	-	-	DISABLE
3	1-6'x20'	1	2	3	ø1	EXISTING QUADRUPOLE
4	1-6'x20'	1	2	3	ø1	EXISTING QUADRUPOLE
5	1-6'x40'	2	4	3	ø1	PROPOSED
6	1-6'x20'	2	4	-	-	DISABLE
7	1-6'x40'	2	4	3	ø2	PROPOSED
8	1-6'x40'	2	4	3	ø2	EXISTING



NOTES: 1) ALL TRAFFIC SIGNAL HEADS ARE EXISTING
2) ALL PEDESTRIAN SIGNAL HEADS ARE PROPOSED.

- SEQUENCE AND TIMING NOTES:**
- FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.28-4D.31
 - MAXIMUM 1 = ALL OTHER TIMES
 - MAXIMUM 2 = 10 AM-6PM WEEKDAYS
2 PM-6PM WEEKENDS
 - CONCURRENT PEDESTRIAN PHASES TO BE REST IN WALK OPERATION.



REVISIONS		
NO.	DATE	BY

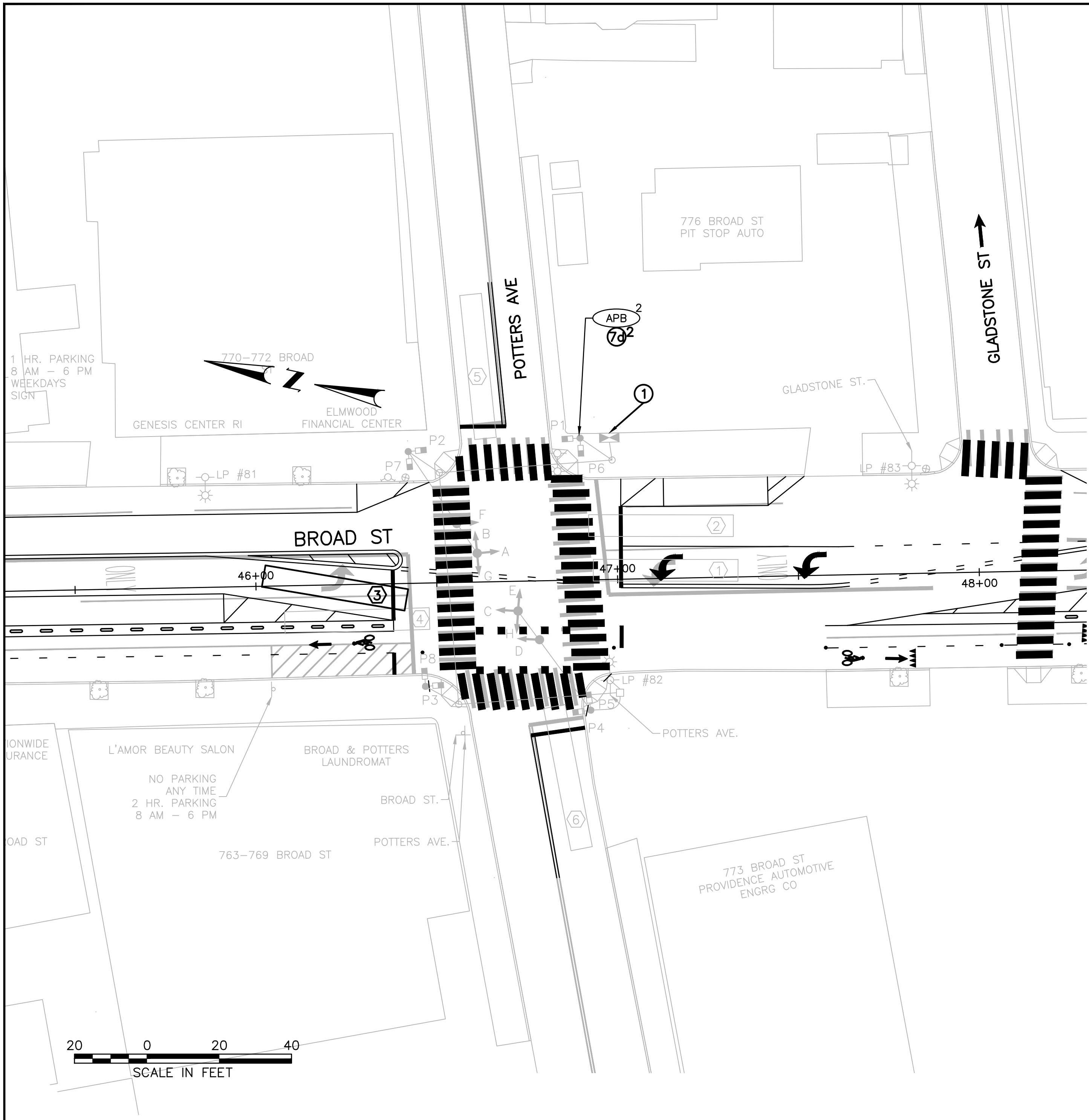
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

PHASE 2
BROAD STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

SIGNAL PLAN NO. 4
BROAD STREET/PUBLIC STREET INTERSECTION

CHECKED BY _____ DATE _____ SCALE 1"=20'



SEQUENCE AND TIMING												
			ø1				ø2				FLASH OPER.	
STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8		
BROAD STREET	N.B.	A,B	R	G	Y	R	R	R	R	R	FR	
BROAD STREET	S.B.	C,D	R	G	Y	R	R	R	R	R	FR	
POTTERS AVENUE	W.B.	E,F	R	R	R	R	R	G	Y	R	FR	
POTTERS AVENUE	E.B.	G,H	R	R	R	R	R	G	Y	R	FR	
PEDESTRIANS			N.B./S.B.	P1-P4	W	W/FDW	DW	DW	DW	DW	OUT	
PEDESTRIANS			E.B./W.B.	P5-P8	DW	DW	DW	DW	W	W/FDW	OUT	
TIMING IN SECONDS												
MINIMUM INTERVAL			10						6			EMERGENCY ONLY
VEHICLE EXTENSION			2.4						2.4			
MAXIMUM I			44						20			
MAXIMUM II			45						19			
YELLOW CLEARANCE						3			3			
RED CLEARANCE						1						
WALK			3						4			
PEDESTRIAN CLEARANCE			4/6						3/13			
RECALL						PED			PED			
MEMORY						NON-LOCK			NON-LOCK			

SEQUENCE AND TIMING NOTES:

- FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.28-4D.31
- MAXIMUM 1 = ALL OTHER TIMES
- MAXIMUM 2 = NOT USED
- CONCURRENT PEDESTRIAN PHASES TO BE REST IN WALK OPERATION.

TRAFFIC SIGNAL CONSTRUCTION NOTES:

- THE EXISTING CONDUIT NETWORK SHOWN ON THIS PLAN IS BASED ON ASSUMED LOCATIONS AND SIZES. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDUIT LOCATIONS AND SIZES FOR ACCURACY AND ADEQUACY PRIOR TO PERFORMING THE WORK.
- VIDEO DETECTION ZONES TO BE ADJUSTED IN THE FIELD AS SHOWN.
- DETECTION ZONE 4 TO BE DELETED.

NO.	ITEM CODE	SYMBOL	ITEM DESCRIPTION
1	T12.9901		TRAFFIC SIGNAL CONTROLLER MODIFICATIONS
APB	T13.9902		ADJUST PEDESTRIAN PUSHBUTTON VERTICALLY ON POLE
7d	T13.9903		EXTENSION BRACKET FOR PEDESTRIAN PUSHBUTTON

OPTICAL DETECTOR CONFIRMATION BEACON SPACING:

BEACON LOCATION	DISTANCE FROM CENTER OF MAST ARM POLE
NE CORNER	12.0'
SW CORNER	17.0'

OPTICAL DETECTOR SPACING:

RECEIVER NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
D1	22.0'
D2	28.0'
D3	26.0'
D4	26.0'

VIDEO DETECTION CAMERA SPACING:

CAMERA NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
1	24.0'
2	1.0'
3	ON SHAFT
4	ON SHAFT

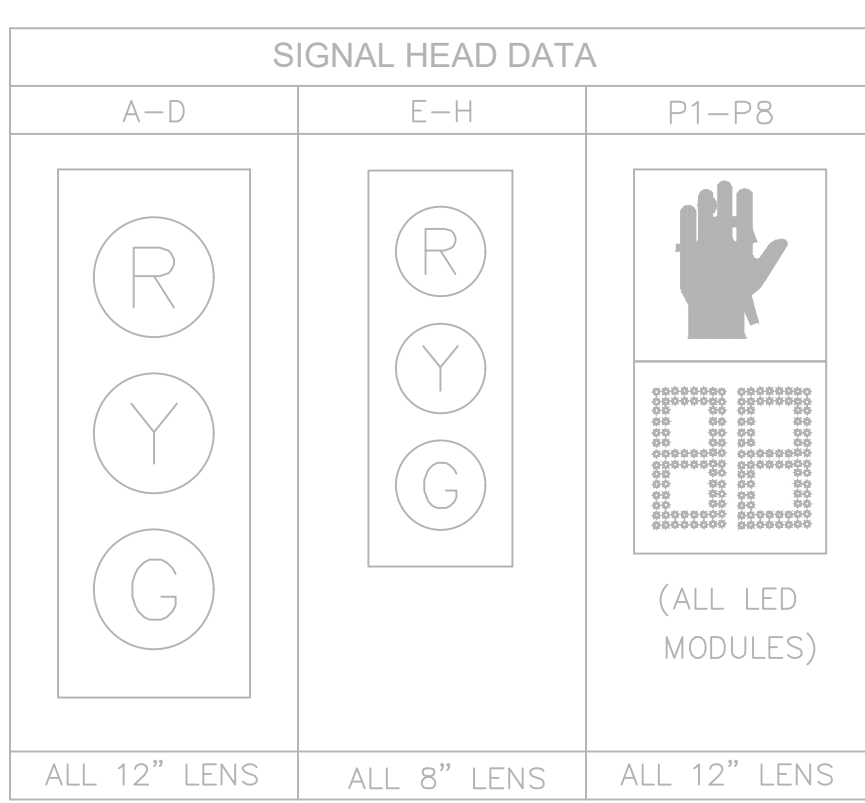
COORDINATION DATA: (ALL ENTRIES IN SECONDS)

	PLAN 1	PLAN 2
CYCLE LENGTH	80	80
OFFSET	0	0
SPLIT ø1	51	52
SPLIT ø2	29	28
COORDINATED PHASE	ø1	ø1
PLAN 1 - MONDAY-FRIDAY	7:00AM-10:00AM	
PLAN 2 - ALL DAYS	2:00PM-6:00PM	
FREE - ALL OTHER TIMES		

- NOTES:**
- ø1 "CALL NON ACTUATED" DURING COORDINATION.
 - OFFSET: BEGINNING OF ø1 GREEN.
 - PLAN FORCE OFF/FLOATING FORCE OFF SHALL BE IN EFFECT.
 - SPLIT TIMES EQUAL GREEN PLUS CLEARANCES.
 - INHIBIT MAX. TERMINATION SHALL BE IN EFFECT DURING COORDINATION.
 - PHASE 2 TO BE ON PED. RECALL DURING COORDINATION.

VIDEO DETECTOR DATA					
DETECTOR ZONE NO.	CAMERA NUMBER	APPROX. SIZE DET. ZONE	DELAY (SEC)	CALL PHASE	REMARKS
1	1	6'x40'	3	ø1	EXISTING
2	1	6'x40'	3	ø1	EXISTING
3	2	6'x40'	3	ø1	PROPOSED
4	2	6'x40'	3	ø1	EXISTING
5	3	6'x40'	3	ø2	EXISTING
6	4	6'x40'	3	ø2	EXISTING

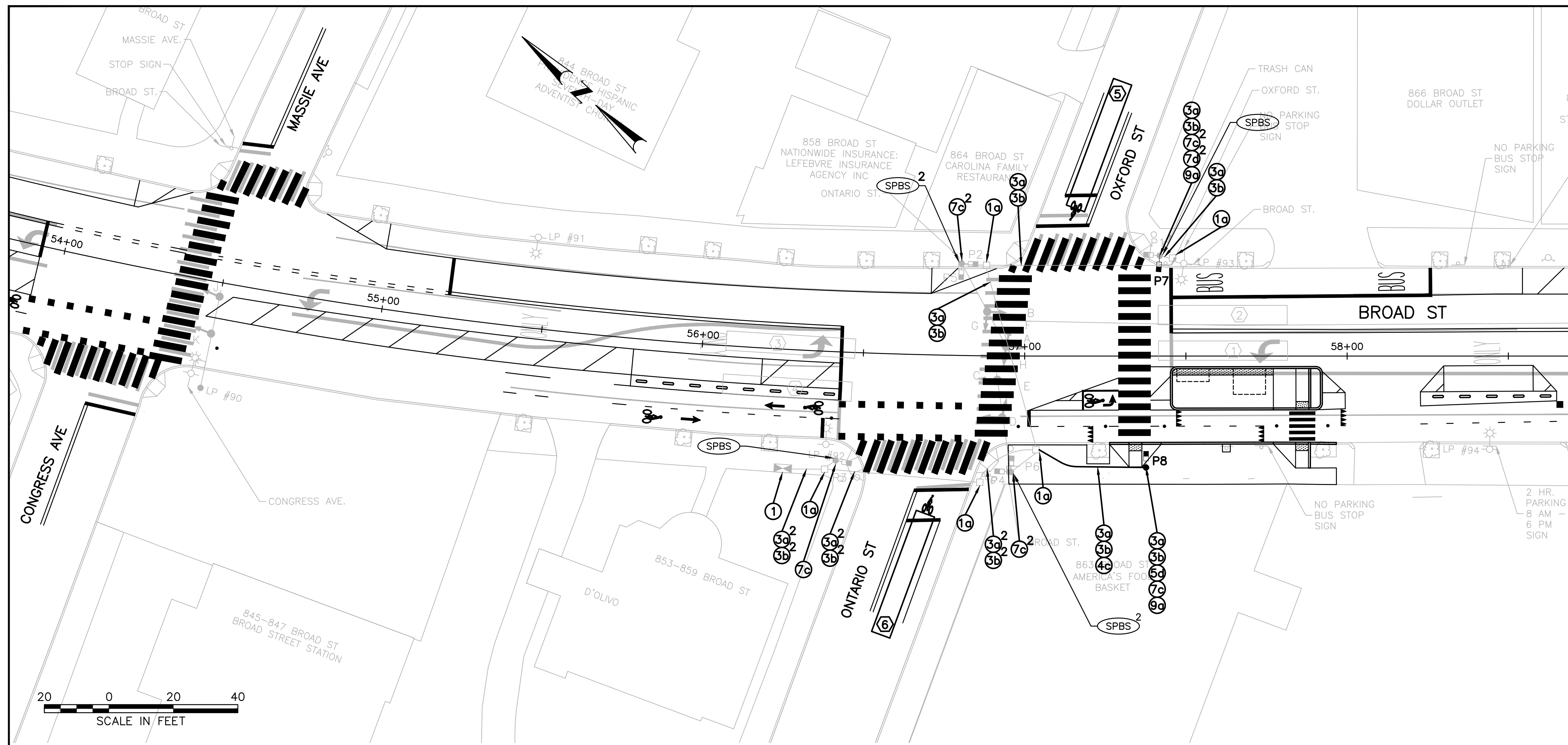
SIGNAL HEAD SPACING:			
SIGNAL HEAD	APPROXIMATE DISTANCE FROM CENTER OF MAST ARM POLE		RELOCATED DISTANCE
	EXISTING	PROPOSED	
A	33.0'	31.5'	1.5'
B	18.0'	15.5'	2.5'
C	35.0'	34.0'	1.0'
D	20.0'	18.5'	1.5'
E	35.0'	34.0'	1.0'
F	33.0'	31.5'	1.5'
G	33.0'	31.5'	1.5'
H	35.0'	34.0'	1'



NOTES: 1) ALL TRAFFIC SIGNAL HEADS ARE EXISTING.
2) ALL PEDESTRIAN SIGNAL HEADS ARE PROPOSED.

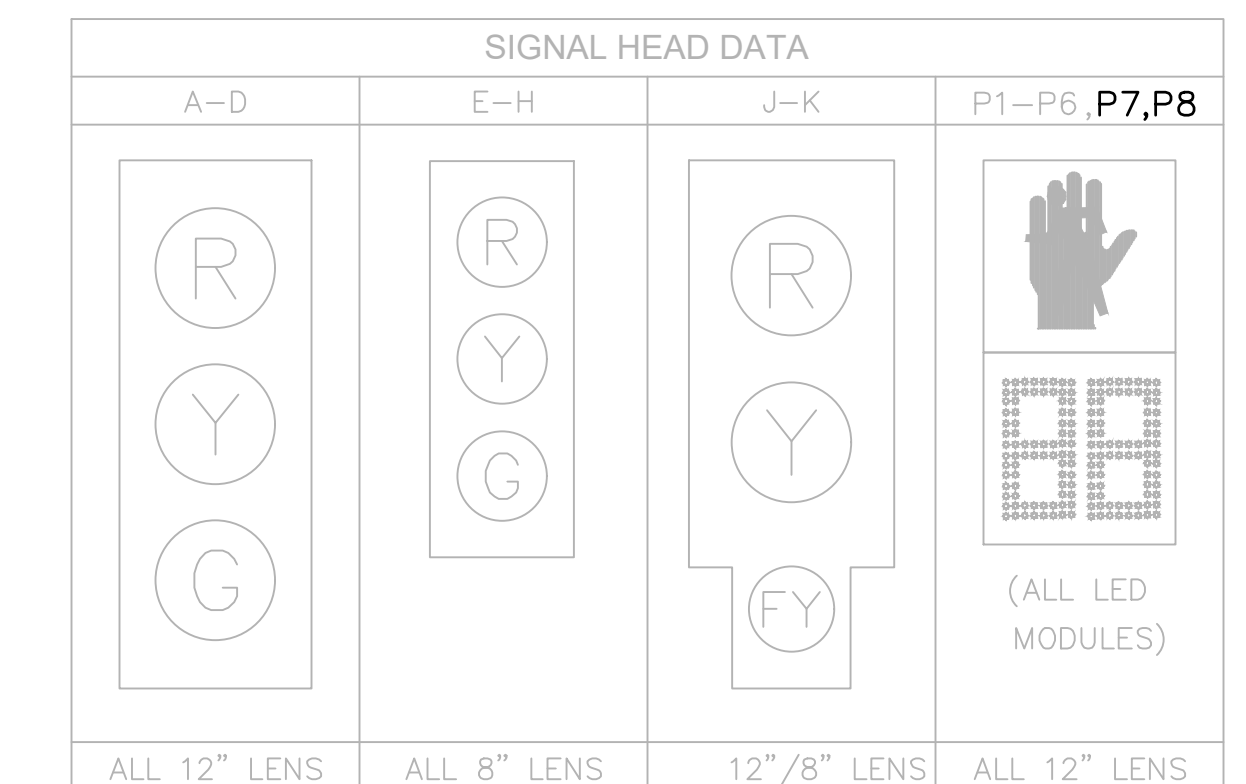


REVISIONS		
NO.	DATE	BY
RHODE ISLAND DEPARTMENT OF TRANSPORTATION PHASE 2 BROAD STREET IMPROVEMENTS PROVIDENCE, RHODE ISLAND SIGNAL PLAN NO. 5 BROAD STREET/POTTERS AVENUE INTERSECTION		
CHECKED BY _____ DATE _____ SCALE 1"=20'		



DETECTOR ZONE NO.	CAMERA NUMBER	APPROX. SIZE DET. ZONE	DELAY (SEC)	CALL PHASE	REMARKS
1	1	6'x40'	3	ø1	EXISTING
2	1	6'x40'	3	ø1	EXISTING
3	2	6'x40'	3	ø1	EXISTING
4	2	6'x40'	3	ø1	EXISTING
5	3	6'x40'	3	ø2	PROPOSED
6	4	6'x40'	3	ø2	PROPOSED

SIGNAL HEAD	APPROXIMATE DISTANCE FROM CENTER OF MAST ARM POLE		RELOCATED DISTANCE
	EXISTING	PROPOSED	
A	29.0'	-	-
B	18.0'	14.0'	4.0'
C	34.0'	29.0'	5.0'
D	20.0'	18.5'	1.5'
E	20.0	18.5'	1.5'
F	29.0	-	-
G	18.0'	14.0'	4.0'
H	29.0'	-	-
J	22.0'	-	-
K	14.0'	-	-



NOTE: PEDESTRIAN SIGNAL HEADS P7 AND P8 ARE PROPOSED.

STREET	DIRECTION	HOUSINGS	SEQUENCE AND TIMING											FLASH OPER.		
			1	2	3	4	5	6	7	8	9	10	11			
BROAD STREET	N.B.	A,B	R	G	Y	R	R	R	R	R	R	R	R	R	R	FY
BROAD STREET	S.B.	C,D	R	G	Y	R	R	R	R	R	G	Y	R	R	R	FY
OXFORD STREET	W.B.	E,F	R	R	R	R	R	G	Y	R	R	R	R	R	R	FR
ONTARIO STREET	E.B.	G,H	R	R	R	R	R	G	Y	R	R	R	R	R	R	FR
BROAD AT CONGRESS AVENUE	S.B.	J,K	FY	FY	FY	FY	FY	FY	FY	FY	R	R	R	R	R	FY

PEDESTRIANS	N.B./S.B.	P1-P4	TIMING IN SECONDS											OUT		
			W	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW		DW	
PEDESTRIANS	E.B./W.B.	P5-P8	DW	DW	DW	DW	W	W/FDW	DW	DW	DW	DW	DW	DW	DW	OUT

	TIMING IN SECONDS											EMERGENCY ONLY
	MINIMUM INTERVAL	10				6			70			
VEHICLE EXTENSION	2.4					2.4			-			
MAXIMUM I	39					19			70			
MAXIMUM II	44					21			70			
YELLOW CLEARANCE				3					3		3	
RED CLEARANCE				2					2		2	
WALK	3					4						
PEDESTRIAN CLEARANCE		4/7				3/11						
RECALL				PED					PED		OFF	
MEMORY				NON-LOCK					NON-LOCK		NON-LOCK	

SEQUENCE AND TIMING NOTES:
 1. FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.28-4D.31
 2. MAXIMUM 1 = ALL OTHER TIMES
 3. MAXIMUM 2 = 10 AM-6PM WEEKDAYS
 2 PM-6PM WEEKENDS
 4. CONCURRENT PEDESTRIAN PHASES TO BE REST IN WALK OPERATION.

TRAFFIC SIGNAL CONSTRUCTION NOTES:
 1. THE EXISTING CONDUIT NETWORK SHOWN ON THIS PLAN IS BASED ON ASSUMED LOCATIONS AND SIZES. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDUIT LOCATIONS AND SIZES FOR ACCURACY AND ADEQUACY PRIOR TO PERFORMING THE WORK.
 2. VIDEO DETECTION ZONES TO BE ADJUSTED IN THE FIELD AS SHOWN.
 3. DETECTION ZONES 1 AND 4 TO BE DELETED.
 4. EXISTING FIRE STATION PRE-EMPTION TO REMAIN.

NO.	ITEM CODE	SYMBOL	ITEM DESCRIPTION
1	T12.9901		TRAFFIC SIGNAL CONTROLLER MODIFICATIONS
1a	T05.0400		BREAK INTO EXISTING HANDHOLE
3a	T04.5303	—	14 AWG 3 CONDUCTOR CABLE
3b	T04.5305	—	14 AWG 5 CONDUCTOR CABLE
4c	T06.5130	—	3 INCH SCHEDULE 40 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDERGROUND
5d	T11.2008	•	TRAFFIC SIGNAL STANDARD, 8 FOOT, STD 19.4.0 ALUMINUM PEDESTAL POLE AND FOUNDATION
7c	T13.8210		ACCESSIBLE PEDESTRIAN DETECTOR - PUSHBUTTON WITH SIGN
7d	T13.9903		EXTENSION BRACKET FOR PEDESTRIAN PUSHBUTTON
9a	T14.3911	⊥	1 WAY PEDESTAL MOUNTED L.E.D. PEDESTRIAN SIGNAL HEAD 12 INCH
SPBS	201.0626		REMOVE & SALVAGE TRAFFIC SIGNAL EQUIPMENT - PEDESTRIAN PUSHBUTTON WITH SIGN

BEACON LOCATION	DISTANCE FROM CENTER OF MAST ARM POLE
NE CORNER	9.0'
SW CORNER	11.0'

RECEIVER NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
D1	19.0'
D2	21.0'
D3	9.0'
D4	15.0'

CAMERA NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
1	22.0'
2	19.5'
3	15.5'
4	10.5'

REVISIONS		
NO.	DATE	BY

**RHODE ISLAND
DEPARTMENT OF TRANSPORTATION**

**PHASE 2
BROAD STREET IMPROVEMENTS**

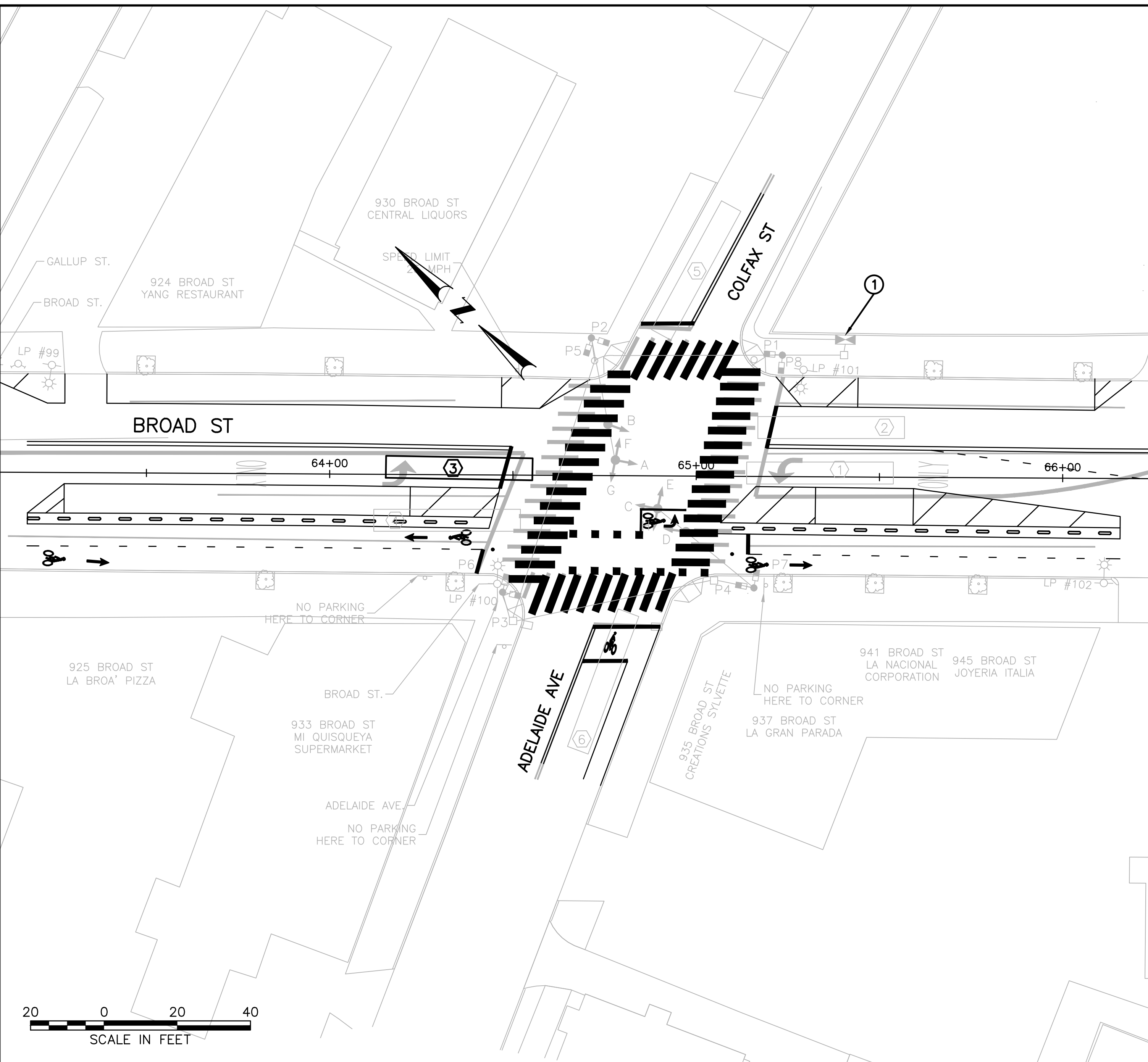
PROVIDENCE, RHODE ISLAND

SIGNAL PLAN NO. 6

BROAD STREET/ONTARIO STREET INTERSECTION

CHECKED BY _____ DATE _____ SCALE 1"=20'





SEQUENCE AND TIMING												
STREET	DIRECTION	HOUSINGS	Ø1				Ø2				FLASH OPER.	
			1	2	3	4	5	6	7	8		
BROAD STREET	N.B.	A,B	R	G	Y	R	R	R	R	R	R	FY
BROAD STREET	S.B.	C,D	R	G	Y	R	R	R	R	R	R	FY
ADELAIDE AVENUE	W.B.	E,F	R	R	R	R	R	G	Y	R	R	FR
ADELAIDE AVENUE	E.B.	G,H	R	R	R	R	R	G	Y	R	R	FR

TIMING IN SECONDS												
MINIMUM INTERVAL				10					6			EMERGENCY ONLY
VEHICLE EXTENSION				2.4				2.4				
MAXIMUM I				44				20				
MAXIMUM II				51				23				
YELLOW CLEARANCE					3				3			
RED CLEARANCE						1.5				1.5		
WALK			3					4				
PEDESTRIAN CLEARANCE				4/9				3/14				
RECALL						PED			PED			
MEMORY						NON-LOCK			NON-LOCK			

- SEQUENCE AND TIMING NOTES:**
- FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.28-D4.31
 - MAXIMUM 1 = ALL TIMES
 - MAXIMUM 2 = NOT USED
 - CONCURRENT PEDESTRIAN PHASES TO BE REST IN WALK OPERATION.

COORDINATION DATA: (ALL ENTRIES IN SECONDS)		
	PLAN 1	PLAN 2
CYCLE LENGTH	90	100
OFFSET	70	75
SPLIT Ø1	61	68
SPLIT Ø2	29	32
COORDINATED PHASE	Ø1	Ø1
PLAN 1 - MONDAY-FRIDAY	7:00AM-10:00AM	
PLAN 2 - ALL DAYS	2:00PM-6:00PM	
FREE - ALL OTHER TIMES		

- NOTES:**
- Ø1 "CALL NON ACTUATED" DURING COORDINATION.
 - OFFSET: BEGINNING OF Ø1 GREEN.
 - PLAN FORCE OFF/FLOATING FORCE OFF SHALL BE IN EFFECT.
 - SPLIT TIMES EQUAL GREEN PLUS CLEARANCES.
 - INHIBIT MAX. TERMINATION SHALL BE IN EFFECT DURING COORDINATION.
 - PHASE 2 TO BE ON PED. RECALL DURING COORDINATION.

- TRAFFIC SIGNAL CONSTRUCTION NOTES:**
- THE EXISTING CONDUIT NETWORK SHOWN ON THIS PLAN IS BASED ON ASSUMED LOCATIONS AND SIZES. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDUIT LOCATIONS AND SIZES FOR ACCURACY AND ADEQUACY PRIOR TO PERFORMING THE WORK.
 - VIDEO DETECTION ZONES TO BE ADJUSTED IN THE FIELD AS SHOWN.
 - DETECTION ZONES 1 AND 4 TO BE DELETED.

VIDEO DETECTOR DATA					
DETECTOR ZONE NO.	CAMERA NUMBER	APPROX. SIZE DET. ZONE	DELAY (SEC)	CALL PHASE	REMARKS
1	1	6'x40'	3	Ø1	EXISTING
2	1	6'x40'	3	Ø1	EXISTING
3	2	6'x40'	3	Ø1	PROPOSED
4	2	6'x40'	3	Ø1	EXISTING
5	3	6'x40'	3	Ø2	EXISTING
6	4	6'x40'	3	Ø2	EXISTING

NO.	ITEM CODE	SYMBOL	ITEM DESCRIPTION
1	T12.9901		TRAFFIC SIGNAL CONTROLLER MODIFICATIONS

SIGNAL HEAD DATA		
A-D	E-H	P1-P8
ALL 12" LENS	ALL 8" LENS	ALL 12" LENS

SIGNAL HEAD SPACING:			
SIGNAL HEAD	APPROXIMATE DISTANCE FROM CENTER OF MAST ARM POLE		RELOCATED DISTANCE
	EXISTING	PROPOSED	
A	29'	28'	1'
B	20'	19'	1'
C	34.5'	34'	0.5'
D	24'	22'	2'
E	34.5'	34'	0.5'
F	29'	28'	1'
G	29'	28'	1'
H	34.5'	34'	0.5'

OPTICAL DETECTOR CONFIRMATION BEACON SPACING:	
BEACON LOCATION	DISTANCE FROM CENTER OF MAST ARM POLE
NE CORNER	15'
SW CORNER	15'

OPTICAL DETECTOR SPACING:	
RECEIVER NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
D1	23'
D2	30'
D3	20'
D4	20'

VIDEO DETECTION CAMERA SPACING:	
CAMERA NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
1	ON SHAFT
2	2'
3	1'
4	ON SHAFT

REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

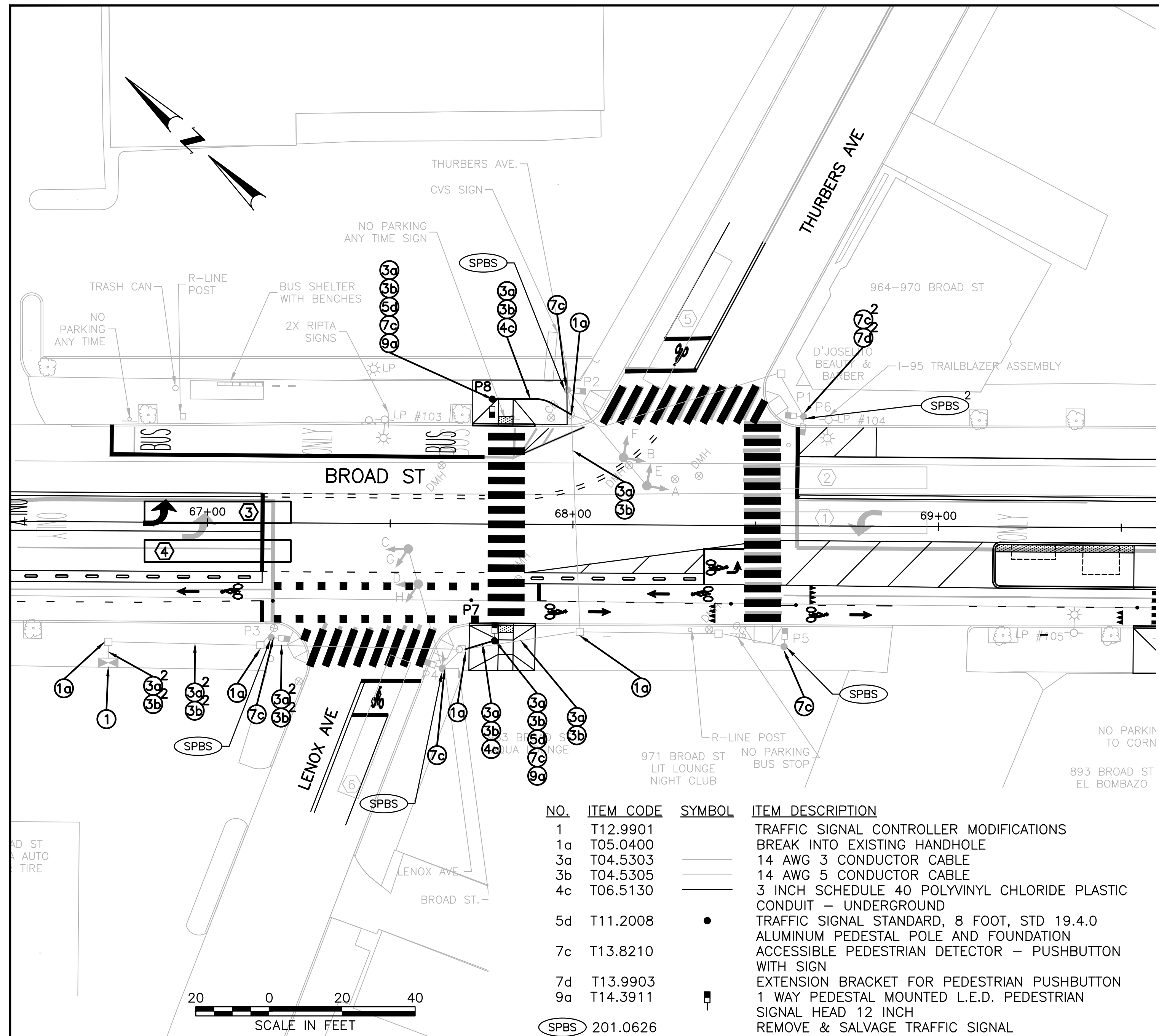
PHASE 2
BROAD STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

SIGNAL PLAN NO. 7
BROAD STREET/ADELAIDE AVENUE INTERSECTION

CHECKED BY _____ DATE _____ SCALE 1"=20'





NO.	ITEM CODE	SYMBOL	ITEM DESCRIPTION
1	T12.9901		TRAFFIC SIGNAL CONTROLLER MODIFICATIONS
1a	T05.0400		BREAK INTO EXISTING HANDHOLE
3a	T04.5303		14 AWG 3 CONDUCTOR CABLE
3b	T04.5305		14 AWG 5 CONDUCTOR CABLE
4c	T06.5130		3 INCH SCHEDULE 40 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDERGROUND
5d	T11.2008	●	TRAFFIC SIGNAL STANDARD, 8 FOOT, STD 19.4.0 ALUMINUM PEDESTAL POLE AND FOUNDATION
7c	T13.8210		ACCESSIBLE PEDESTRIAN DETECTOR - PUSHBUTTON WITH SIGN
7d	T13.9903		EXTENSION BRACKET FOR PEDESTRIAN PUSHBUTTON
9a	T14.3911		1 WAY PEDESTAL MOUNTED L.E.D. PEDESTRIAN SIGNAL HEAD 12 INCH REMOVE & SALVAGE TRAFFIC SIGNAL EQUIPMENT - PEDESTRIAN PUSHBUTTON WITH SIGN
	SPBS 201.0626		

SEQUENCE AND TIMING																			
			ø1				ø2				ø3				ø4				
STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	FLASH OPER.		
BROAD STREET	N.B.	A,B	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	FY		
BROAD STREET	S.B.	C	R	G	Y	R	G	Y	R	R	R	R	R	R	R	R	FY		
BROAD STREET	S.B.	D	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	FR		
THURBERS AVENUE	W.B.	E,F	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	FR		
LENOX AVENUE	E.B.	G,H	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	FY		
PEDESTRIANS	N.B./S.B.	P1-P4	W	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT		
PEDESTRIANS	E.B./W.B.	P5-P6	DW	DW	DW	DW	DW	DW	DW	W	W/FDW	DW	DW	W	FDW	DW	OUT		
		P7-P8	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT		
TIMING IN SECONDS																			
MINIMUM INTERVAL				10				4				6						EMERGENCY ONLY	
VEHICLE EXTENSION				2.4				2.4				2.4							
MAXIMUM I				35				4				16							
MAXIMUM II				36				5				16							
YELLOW CLEARANCE						3				3			3						
RED CLEARANCE							2.5			1				1.5		3			
WALK			3								4			7					
PEDESTRIAN CLEARANCE				4/8								3/14			11				
RECALL			PED				OFF				PED				OFF				
MEMORY			NON-LOCK				NON-LOCK				NON-LOCK				NON-LOCK				

SEQUENCE AND TIMING NOTES:

- FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.28-D4.31
- MAXIMUM 1 = ALL TIMES
- MAXIMUM 2 = NOT USED
- ø4 PEDESTRIAN PHASE UPON PUSHBUTTON ACTIVATION ONLY
- CONCURRENT PEDESTRIAN PHASES TO BE REST IN WALK OPERATION.

TRAFFIC SIGNAL CONSTRUCTION NOTES:

- THE EXISTING CONDUIT NETWORK SHOWN ON THIS PLAN IS BASED ON ASSUMED LOCATIONS AND SIZES. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDUIT LOCATIONS AND SIZES FOR ACCURACY AND ADEQUACY PRIOR TO PERFORMING THE WORK.
- VIDEO DETECTION ZONES TO BE ADJUSTED AS SHOWN.
- DETECTION ZONE 1 TO BE DELETED.
- PHASING SEQUENCE TO CHANGE PHASE 1 TO PERMISSIVE/PROTECTIVE OPERATION.

OPTICAL DETECTOR CONFIRMATION BEACON SPACING:

BEACON LOCATION	DISTANCE FROM CENTER OF MAST ARM POLE
NE CORNER	20'
SE CORNER	10'

VIDEO DETECTOR DATA

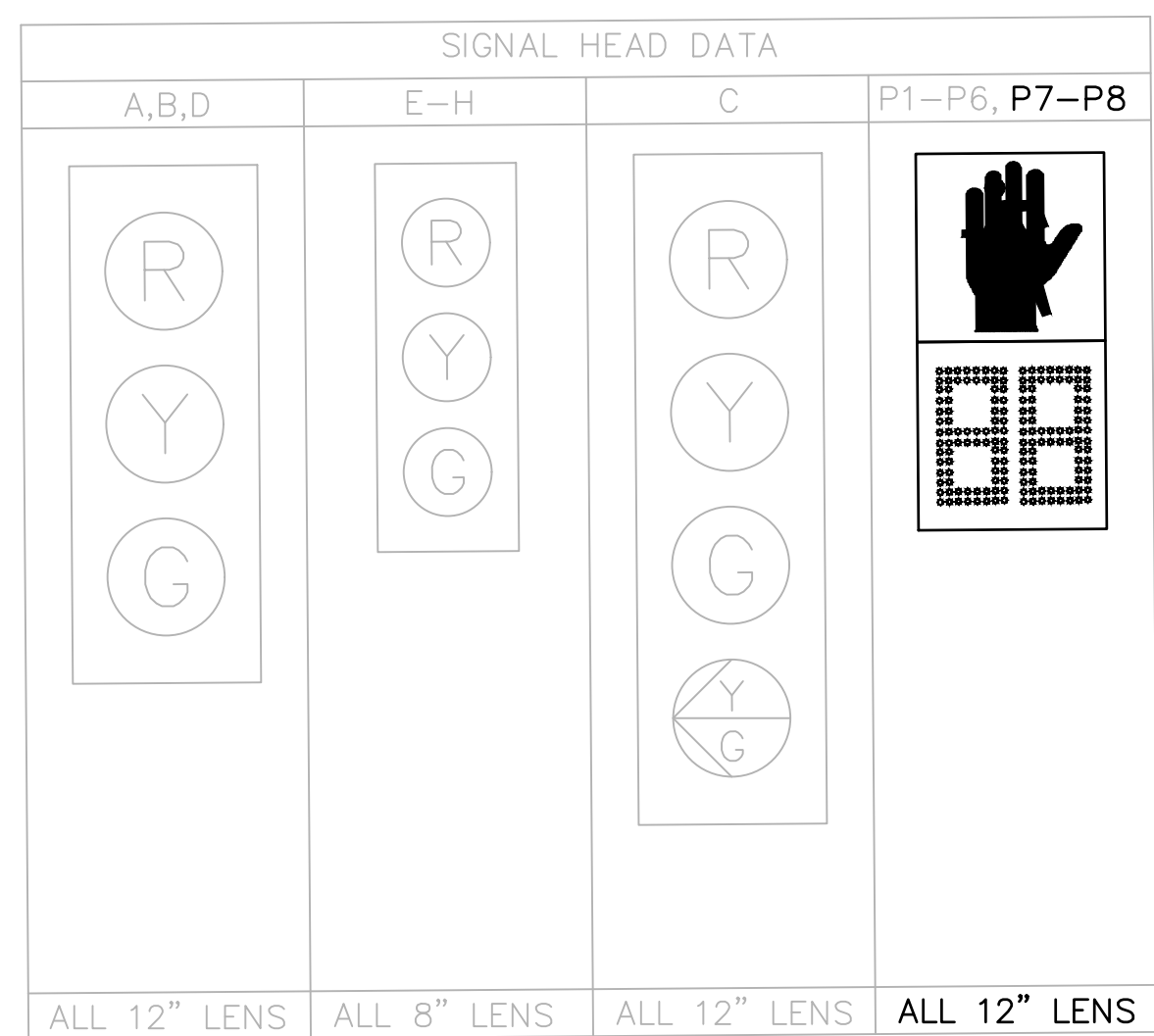
DETECTOR ZONE NO.	CAMERA NUMBER	APPROX. SIZE DET. ZONE	DELAY (SEC)	CALL PHASE	REMARKS
1	1	6'x40'	3	ø2	EXISTING
2	1	6'x40'	3	ø1	EXISTING
3	2	6'x40'	3	ø2	PROPOSED
4	2	6'x40'	3	ø1	PROPOSED
5	3	6'x40'	3	ø3	EXISTING
6	4	6'x40'	3	ø3	EXISTING

SIGNAL HEAD SPACING:

SIGNAL HEAD	APPROXIMATE DISTANCE FROM CENTER OF MAST ARM POLE		RELOCATED DISTANCE
	EXISTING	PROPOSED	
A	34'	-	-
B	20'	18'	2'
C	29.5'	28.5'	1'
D	16'	14.5'	1.5'
E	34'	-	-
F	20'	18'	2'
G	29.5'	28.5'	1'
H	16'	14.5'	1.5'

OPTICAL DETECTOR SPACING:

RECEIVER NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
D1	27'
D2	25'
D3	16'
D4	24'



COORDINATION DATA:
(ALL ENTRIES IN SECONDS)

	PLAN 1	PLAN 2
CYCLE LENGTH	90	100
OFFSET	0	0
SPLIT ø1	35	43
SPLIT ø2	9	8
SPLIT ø3	23	26
SPLIT ø4	23	23
COORDINATED PHASE	ø1	ø1

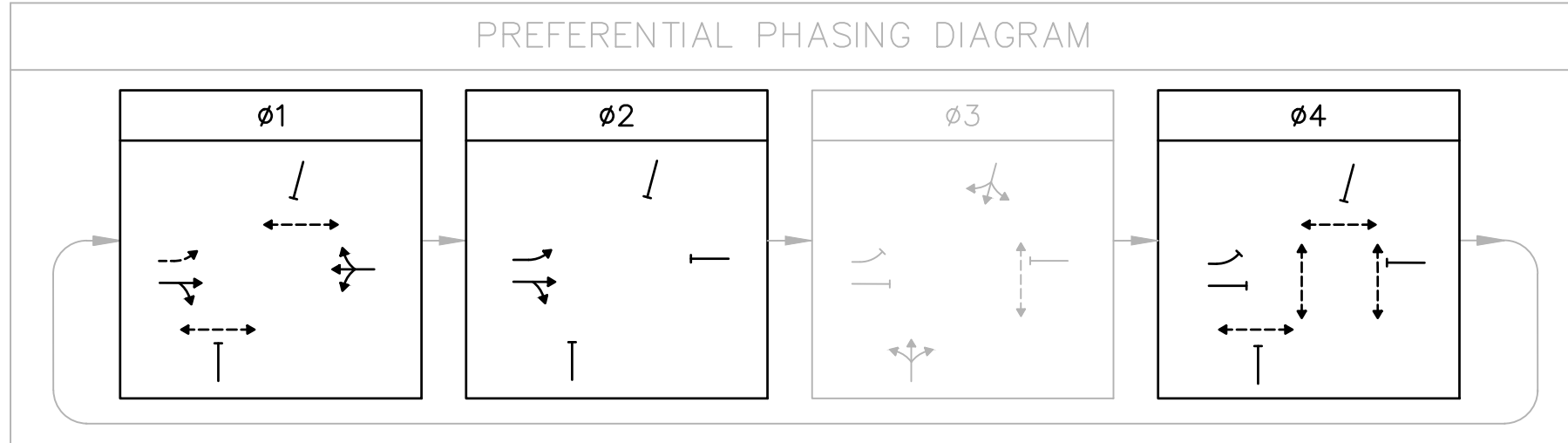
PLAN 1 - MONDAY-FRIDAY 7:00AM-10:00AM
PLAN 2 - ALL DAYS 2:00PM-6:00PM
FREE - ALL OTHER TIMES

VIDEO DETECTION CAMERA SPACING:

CAMERA NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
1	6'
2	ON SHAFT
3	ON SHAFT
4	ON SHAFT

COORDINATION DATA NOTES:

- ø1 "CALL NON ACTUATED" DURING COORDINATION.
- OFFSET: BEGINNING OF ø1 GREEN.
- PLAN FORCE OFF/FLOATING FORCE OFF SHALL BE IN EFFECT.
- SPLIT TIMES EQUAL GREEN PLUS CLEARANCES.
- INHIBIT MAX. TERMINATION SHALL BE IN EFFECT DURING COORDINATION.
- PHASE 3 TO BE ON PED. RECALL DURING COORDINATION.



NOTE:
PEDESTRIAN SIGNAL HEADS P7 AND P8 ARE PROPOSED.



REVISIONS

NO.	DATE	BY

**RHODE ISLAND
DEPARTMENT OF TRANSPORTATION**

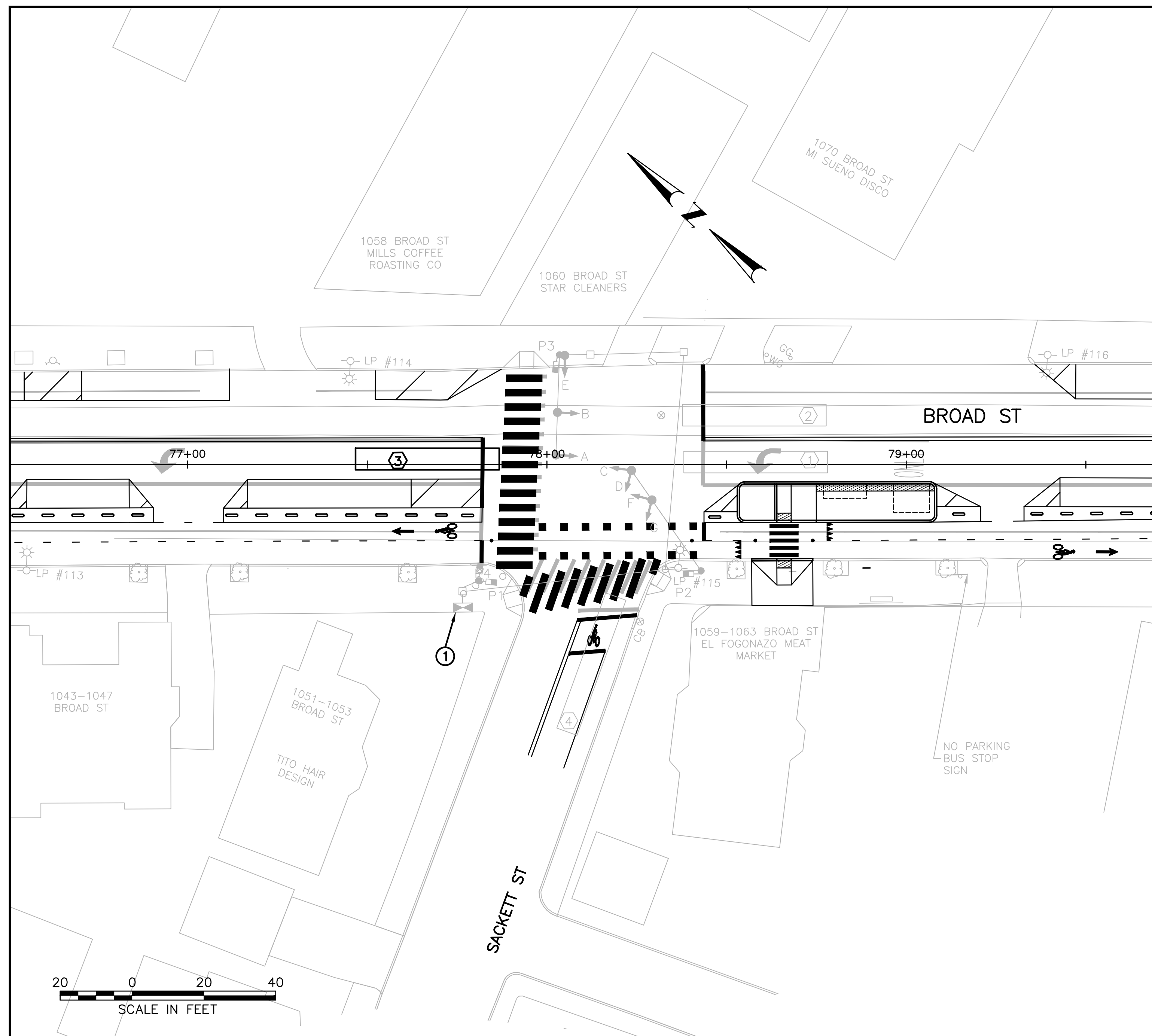
**PHASE 2
BROAD STREET IMPROVEMENTS**

PROVIDENCE, RHODE ISLAND

SIGNAL PLAN NO. 8

BROAD STREET/THURBERS AVENUE INTERSECTION

CHECKED BY _____ DATE _____ SCALE 1"=20'



SEQUENCE AND TIMING												
		ø1				ø2				FLASH OPER.		
STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8		
BROAD STREET	N.B.	A,B	R	G	Y	R	R	R	R	R	FY	
BROAD STREET	S.B.	C,D	R	G	Y	R	R	R	R	R	FY	
SACKETT STREET	E.B.	E,F,G	R	R	R	R	R	G	Y	R	FR	
PEDESTRIANS	N.B./S.B.	P1-P2	W	W/FDW	DW	DW	DW	DW	DW	DW	OUT	
PEDESTRIANS	E.B./W.B.	P3-P4	DW	DW	DW	DW	W	W/FDW	DW	DW	OUT	
TIMING IN SECONDS												
MINIMUM INTERVAL				10						6		
VEHICLE EXTENSION				2.4						2.4		
MAXIMUM I				26						19		
MAXIMUM II				46						19		
YELLOW CLEARANCE						3				3		
RED CLEARANCE							1					1
WALK			3					4				
PEDESTRIAN CLEARANCE				4/8					3/13			
RECALL				PED				PED				
MEMORY				NON-LOCK				NON-LOCK				

COORDINATION DATA:		
(ALL ENTRIES IN SECONDS)		
	PLAN 1	PLAN 2
CYCLE LENGTH	60	85
OFFSET	0	0
SPLIT ø1	33	58
SPLIT ø2	27	27
COORDINATED PHASE	ø1	ø1
PLAN 1 - MONDAY-FRIDAY 7:00AM-10:00AM		
PLAN 2 - ALL DAYS 2:00PM-6:00PM		
FREE - ALL OTHER TIMES		

- NOTES:**
- ø1 "CALL NON ACTUATED" DURING COORDINATION.
 - OFFSET: BEGINNING OF ø1 GREEN.
 - PLAN FORCE OFF/FLOATING FORCE OFF SHALL BE IN EFFECT.
 - SPLIT TIMES EQUAL GREEN PLUS CLEARANCES.
 - INHIBIT MAX. TERMINATION SHALL BE IN EFFECT DURING COORDINATION.
 - PHASE 2 TO BE ON PED. RECALL DURING COORDINATION.

- SEQUENCE AND TIMING NOTES:**
- FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.28-4D.31
 - MAXIMUM 1 = ALL TIMES
 - MAXIMUM 2 = NOT USED
 - CONCURRENT PEDESTRIAN PHASES TO BE REST IN WALK OPERATION.

- TRAFFIC SIGNAL CONSTRUCTION NOTES:**
- THE EXISTING CONDUIT NETWORK SHOWN ON THIS PLAN IS BASED ON ASSUMED LOCATIONS AND SIZES. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDUIT LOCATIONS AND SIZES FOR ACCURACY AND ADEQUACY PRIOR TO PERFORMING THE WORK.
 - VIDEO DETECTION ZONES TO BE ADJUSTED IN THE FIELD AS SHOWN.
 - DETECTION ZONE 1 TO BE DELETED.

NO.	ITEM CODE	SYMBOL	ITEM DESCRIPTION
1	T12.9901		TRAFFIC SIGNAL CONTROLLER MODIFICATIONS

OPTICAL DETECTOR CONFIRMATION BEACON SPACING:

BEACON LOCATION	DISTANCE FROM CENTER OF MAST ARM POLE
SW CORNER	21'

OPTICAL DETECTOR SPACING:

RECEIVER NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
D1	18'
D2	27'
D3	23'

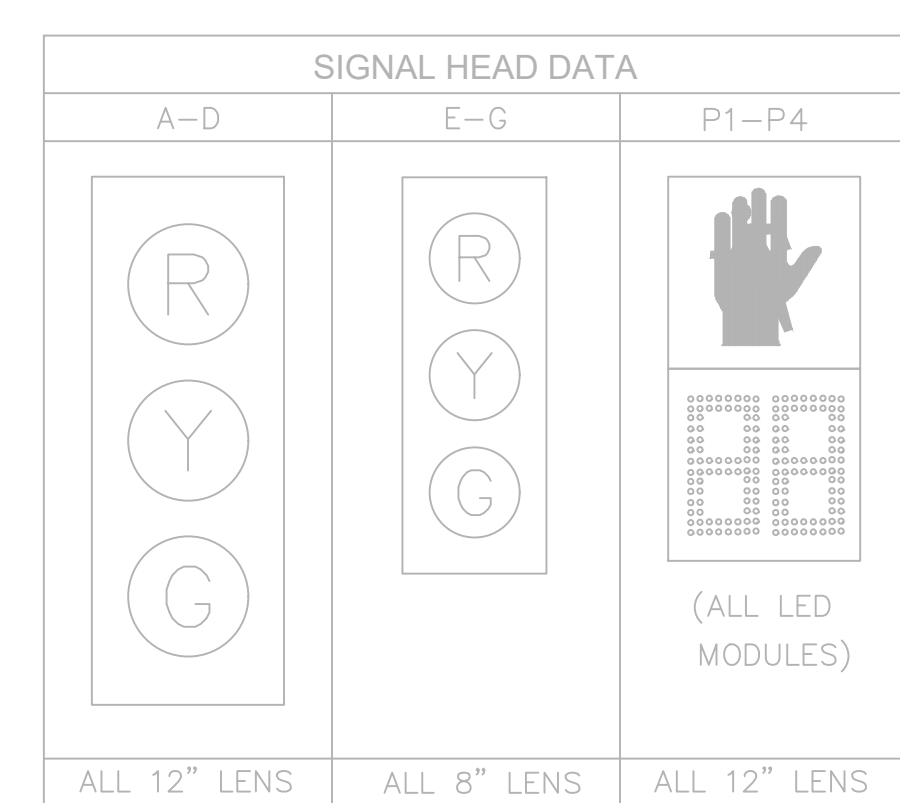
VIDEO DETECTION CAMERA SPACING:

CAMERA NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
1	2.5'
2	15'
3	ON SHAFT

SIGNAL HEAD SPACING:

SIGNAL HEAD	APPROXIMATE DISTANCE FROM CENTER OF MAST ARM POLE		RELOCATED DISTANCE
	EXISTING	PROPOSED	
A	19'	-	-
B	11.5'	10.5'	1'
C	33'	32'	1'
D	20'	18'	2'
E	ON SHAFT	-	-
F	33'	32'	1'
G	20'	18'	2'

VIDEO DETECTOR DATA					
DETECTOR ZONE NO.	CAMERA NUMBER	APPROX. SIZE DET. ZONE	DELAY (SEC)	CALL PHASE	REMARKS
1	1	6'x40'	3	ø1	EXISTING
2	1	6'x40'	3	ø1	EXISTING
3	2	6'x40'	3	ø1	PROPOSED
4	3	6'x40'	3	ø2	EXISTING



- NOTES:** 1) ALL TRAFFIC SIGNAL HEADS ARE EXISTING.
2) ALL PEDESTRIAN SIGNAL HEADS ARE PROPOSED.

REVISIONS		
NO.	DATE	BY

**RHODE ISLAND
DEPARTMENT OF TRANSPORTATION**

**PHASE 2
BROAD STREET IMPROVEMENTS**

PROVIDENCE, RHODE ISLAND

SIGNAL PLAN NO. 9

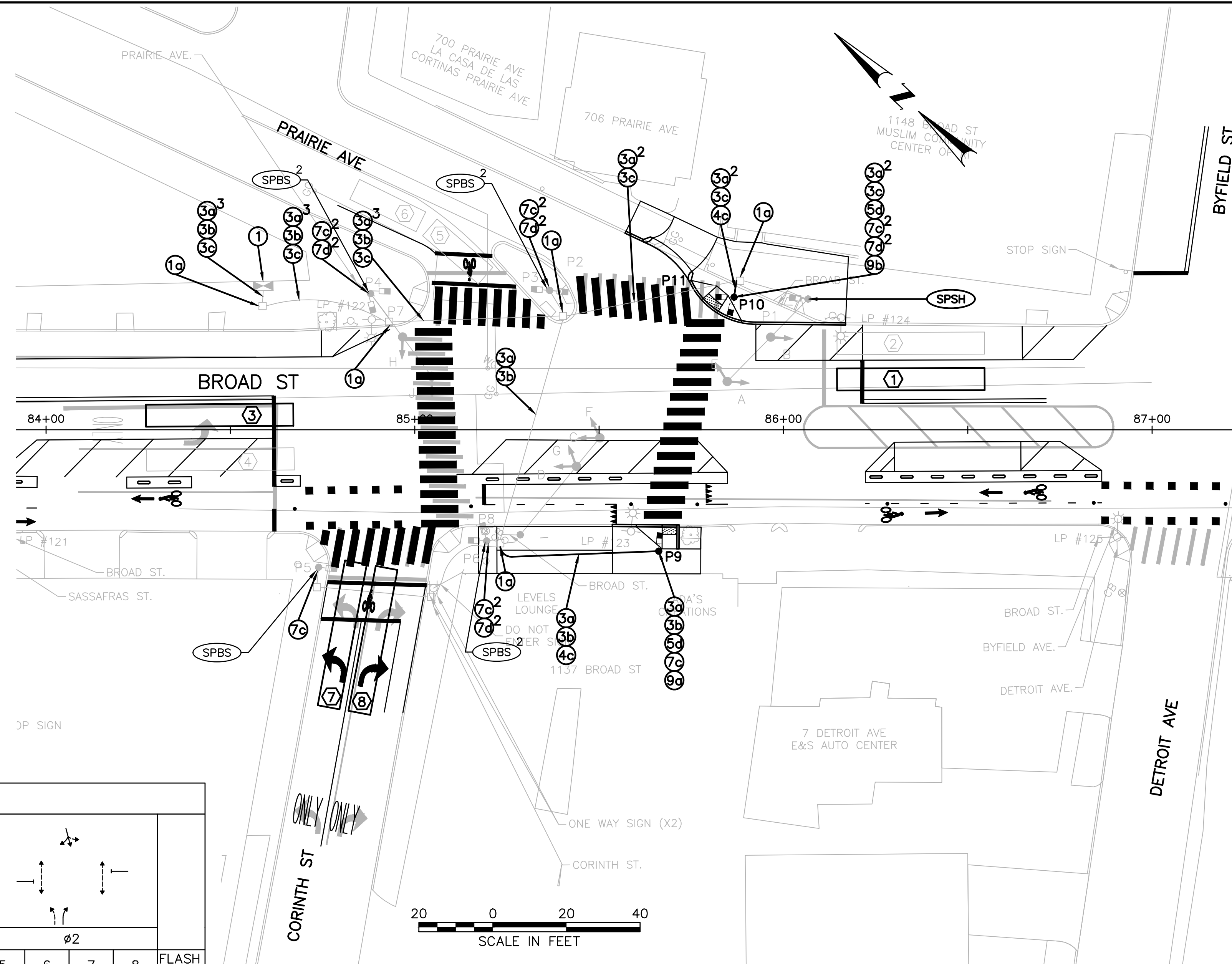
BROAD STREET/SACKETT STREET INTERSECTION

CHECKED BY _____ DATE _____ SCALE 1"=20'



SIGNAL HEAD DATA			
A-G	H,J	P2-P8	P9-P11
ALL 12" LENS	ALL 8" LENS	ALL 12" LENS	ALL 12" LENS

NOTE:
PEDESTRIAN SIGNAL HEADS P9-P11 ARE PROPOSED.



OPTICAL DETECTOR CONFIRMATION BEACON SPACING:

BEACON LOCATION	DISTANCE FROM CENTER OF MAST ARM POLE
NE CORNER	11'
SE CORNER	11'

OPTICAL DETECTOR SPACING:

RECEIVER NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
D1	31'
D2	15'
D3	15'
D4	9'

VIDEO DETECTION CAMERA SPACING:

CAMERA NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
1	ON SHAFT
2	22'
3	13'
4	ON SHAFT

SEQUENCE AND TIMING												
STREET	DIRECTION	HOUSINGS	PHASES								FLASH OPER.	
			1	2	3	4	5	6	7	8		
BROAD STREET	N.B.	A,B	R	G	Y	R	R	R	R	R	R	FY
BROAD STREET	S.B.	C,D	R	G	Y	R	R	R	R	R	R	FY
PRAIRIE AVENUE	W.B.	E,F	R	R	R	R	R	G	Y	R	R	FR
CORINTH STREET	E.B.	G,H	R	R	R	R	R	G	Y	R	R	FR
PEDESTRIANS	N.B./S.B.	P2-P6,P11	W	W/FDW	DW	DW	DW	DW	DW	DW	DW	OUT
PEDESTRIANS	E.B./W.B.	P7-P10	DW	DW	DW	DW	W/FDW	FDW	DW	DW	DW	OUT
TIMING IN SECONDS												
MINIMUM INTERVAL				10							6	
VEHICLE EXTENSION				2.4							2.4	
MAXIMUM I				35							20	
MAXIMUM II				35							20	
YELLOW CLEARANCE						3					3	
RED CLEARANCE							2.5					1
WALK			3						7/2			
PEDESTRIAN CLEARANCE				4/15							11	
RECALL				PED				PED				
MEMORY				NON-LOCK				NON-LOCK				

SEQUENCE AND TIMING NOTES:
 1. FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.28-D4.31
 2. MAXIMUM 1 = ALL OTHER TIMES
 3. MAXIMUM 2 = 10 AM-6PM WEEKDAYS
 2 PM-6PM WEEKENDS
 4. CONCURRENT PEDESTRIAN PHASES TO BE REST IN WALK OPERATION.

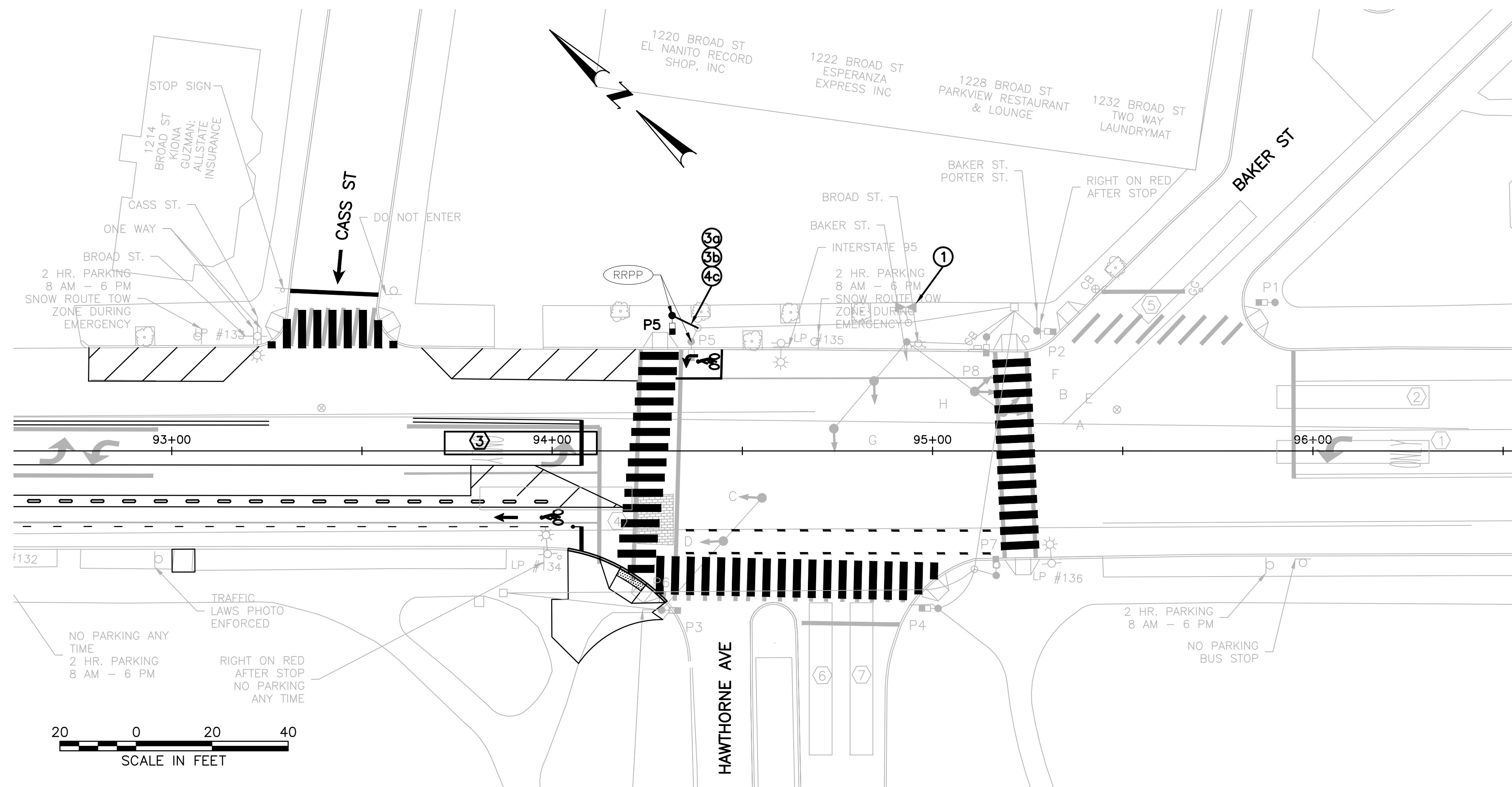
NO.	ITEM CODE	SYMBOL	ITEM DESCRIPTION
1	T12.9901		TRAFFIC SIGNAL CONTROLLER MODIFICATIONS
1a	T05.0400		BREAK INTO EXISTING HANDHOLE
3a	T04.5303		14 AWG 3 CONDUCTOR CABLE
3b	T04.5305		14 AWG 5 CONDUCTOR CABLE
3c	T04.5307		14 AWG 7 CONDUCTOR CABLE
4c	T06.5130		3 INCH SCHEDULE 40 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDERGROUND
5d	T11.2008	•	TRAFFIC SIGNAL STANDARD, 8 FOOT, STD 19.4.0 ALUMINUM PEDESTAL POLE AND FOUNDATION
7c	T13.8210		ACCESSIBLE PEDESTRIAN DETECTOR - PUSHBUTTON WITH SIGN
7d	T13.9903		EXTENSION BRACKET FOR PEDESTRIAN PUSHBUTTON
9a	T14.3911		1 WAY PEDESTAL MOUNTED L.E.D. PEDESTRIAN SIGNAL HEAD 12 INCH
9b	T14.3912		2 WAY PEDESTAL MOUNTED L.E.D. PEDESTRIAN SIGNAL HEAD 12 INCH
SPSH	201.0626		REMOVE & SALVAGE TRAFFIC SIGNAL EQUIPMENT - PEDESTRIAN SIGNAL HEAD AND PUSHBUTTON WITH SIGN
SPBS	201.0626		REMOVE & SALVAGE TRAFFIC SIGNAL EQUIPMENT - PEDESTRIAN PUSHBUTTON WITH SIGN

TRAFFIC SIGNAL CONSTRUCTION NOTES:
 1. THE EXISTING CONDUIT NETWORK SHOWN ON THIS PLAN IS BASED ON ASSUMED LOCATIONS AND SIZES. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDUIT LOCATIONS AND SIZES FOR ACCURACY AND ADEQUACY PRIOR TO PERFORMING THE WORK.
 2. VIDEO DETECTION ZONES TO BE ADJUSTED IN THE FIELD AS SHOWN.
 3. DETECTION ZONES 2 AND 4 TO BE DELETED.

VIDEO DETECTOR DATA					
DETECTOR ZONE NO.	CAMERA NUMBER	APPROX. SIZE DET. ZONE	DELAY (SEC)	CALL PHASE	REMARKS
1	1	6'x40'	3	ø1	PROPOSED
2	1	6'x40'	3	ø1	EXISTING
3	2	6'x40'	3	ø1	PROPOSED
4	2	6'x40'	3	ø1	EXISTING
5	3	6'x20'	3	ø2	EXISTING
6	3	6'x20'	3	ø2	EXISTING
7	4	6'x40'	3	ø2	PROPOSED
8	4	6'x40'	5	ø2	PROPOSED

REVISIONS			RHODE ISLAND	
NO.	DATE	BY	DEPARTMENT OF TRANSPORTATION	
			PHASE 2	
			BROAD STREET IMPROVEMENTS	
			PROVIDENCE, RHODE ISLAND	
			SIGNAL PLAN NO. 10	
			BROAD STREET/PRAIRIE AVENUE INTERSECTION	
			CHECKED BY _____ DATE _____ SCALE 1"=20'	





SIGNAL HEAD DATA		
A-D	E-H	P1-P8
ALL 12" LENS	ALL 8" LENS	ALL 12" LENS

NOTES: 1. ALL TRAFFIC SIGNAL HEADS ARE EXISTING.
2. ALL PEDESTRIAN SIGNAL HEADS ARE PROPOSED.

OPTICAL DETECTOR CONFIRMATION BEACON SPACING:

BEACON LOCATION	DISTANCE FROM CENTER OF MAST ARM POLE
NE CORNER	16'
NE CORNER	30'
NW CORNER	20'

OPTICAL DETECTOR SPACING:

RECEIVER NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
D1	36'
D2	33'
D3	32'
D4	21'

VIDEO DETECTION CAMERA SPACING:

CAMERA NUMBER	DISTANCE FROM CENTER OF MAST ARM POLE
1	9'
2	34'
3	10'
4	4'

SIGNAL HEAD SPACING:

SIGNAL HEAD	APPROXIMATE DISTANCE FROM CENTER OF MAST ARM POLE		RELOCATED DISTANCE
	EXISTING	PROPOSED	
A	39'	37'	2'
B	26'	-	-
C	39'	37'	2'
D	30'	28'	2'
E	39'	37'	2'
F	26'	-	-
G	24'	22.5'	1.5'
H	9'	7'	2'

SEQUENCE AND TIMING															
STREET	DIRECTION	HOUSINGS	ø1				ø2				ø3				FLASH OPER.
			1	2	3	4	5	6	7	8	9	10	11		
BROAD STREET	N.B.	A,B	R	G	Y	R	R	R	R	R	R	R	R	RY	
BROAD STREET	S.B.	C,D	R	G	Y	R	R	R	R	R	R	R	R	RY	
BAKER STREET	W.B.	E,F	R	R	R	R	R	R	R	R	G	Y	R	FR	
HAWTHORNE AVENUE	E.B.	G,H	R	R	R	R	R	G	Y	R	R	R	R	FR	

PEDESTRIANS	N.B./S.B.	P1-P4	W				DW				OUT				
			W	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
PEDESTRIANS	E.B./W.B.	P5-P8	DW	DW	DW	DW	W	W/FDW	DW	DW	DW	DW	DW	DW	DW

TIMING IN SECONDS														
MINIMUM INTERVAL														
VEHICLE EXTENSION				10						6				
MAXIMUM I				2.4						2.4				
MAXIMUM II				42						21				
YELLOW CLEARANCE				58						16			11	
RED CLEARANCE							3					3		3
WALK									1.5					2.5
PEDESTRIAN CLEARANCE				3						4				
RECALL				PED			PED			OFF				
MEMORY				NON-LOCK			NON-LOCK			NON-LOCK				

SEQUENCE AND TIMING NOTES:
1. FLASHING OPERATION PER M.U.T.C.D. SECTION 4D.28-D4.31
2. MAXIMUM 1 = ALL OTHER TIMES
3. MAXIMUM 2 = 10 AM-6PM WEEKDAYS
2 PM-6PM WEEKENDS
4. CONCURRENT PEDESTRIAN PHASES TO BE REST IN WALK OPERATION.

TRAFFIC SIGNAL CONSTRUCTION NOTES:
1. THE EXISTING CONDUIT NETWORK SHOWN ON THIS PLAN IS BASED ON ASSUMED LOCATIONS AND SIZES. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDUIT LOCATIONS AND SIZES FOR ACCURACY AND ADEQUACY PRIOR TO PERFORMING THE WORK.
2. VIDEO DETECTION ZONES TO BE ADJUSTED IN THE FIELD AS SHOWN.
3. DETECTION ZONE 4 TO BE DELETED.
4. CONTRACTOR TO COORDINATE WITH THE RED LIGHT CAMERA COMPANY TO MAKE NECESSARY ADJUSTMENTS DUE TO THE PROPOSED LANE REASSIGNMENT.

NO.	ITEM CODE	SYMBOL	ITEM DESCRIPTION
1	T12.9901		TRAFFIC SIGNAL CONTROLLER MODIFICATIONS
3a	T04.5303		14 AWG 3 CONDUCTOR CABLE
3b	T04.5305		14 AWG 5 CONDUCTOR CABLE
4c	T06.5130		3 INCH SCHEDULE 40 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDERGROUND
	RRPP T11.9902		REMOVE AND RELOCATE PEDESTAL POLE

VIDEO DETECTOR DATA					
DETECTOR ZONE NO.	CAMERA NUMBER	APPROX. SIZE DET. ZONE	DELAY (SEC)	CALL PHASE	REMARKS
1	1	6'x40'	3	ø1	EXISTING
2	1	6'x40'	3	ø1	EXISTING
3	2	6'x40'	3	ø1	PROPOSED
4	2	6'x40'	3	ø1	EXISTING
5	3	6'x40'	3	ø3	EXISTING
6	4	6'x40'	3	ø2	EXISTING
7	4	6'x40'	5	ø2	EXISTING



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

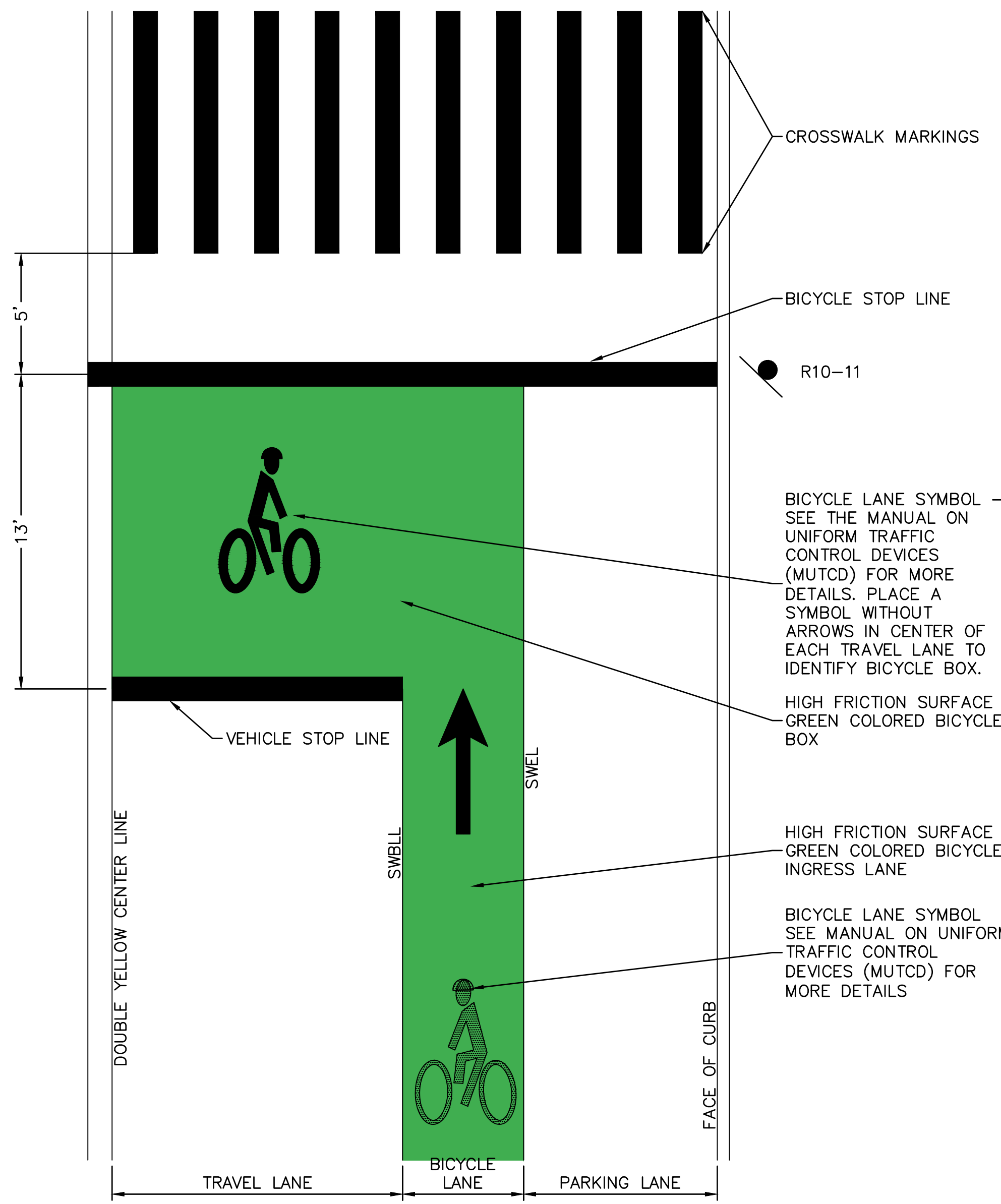
PHASE 2
BROAD STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

SIGNAL PLAN NO. 11

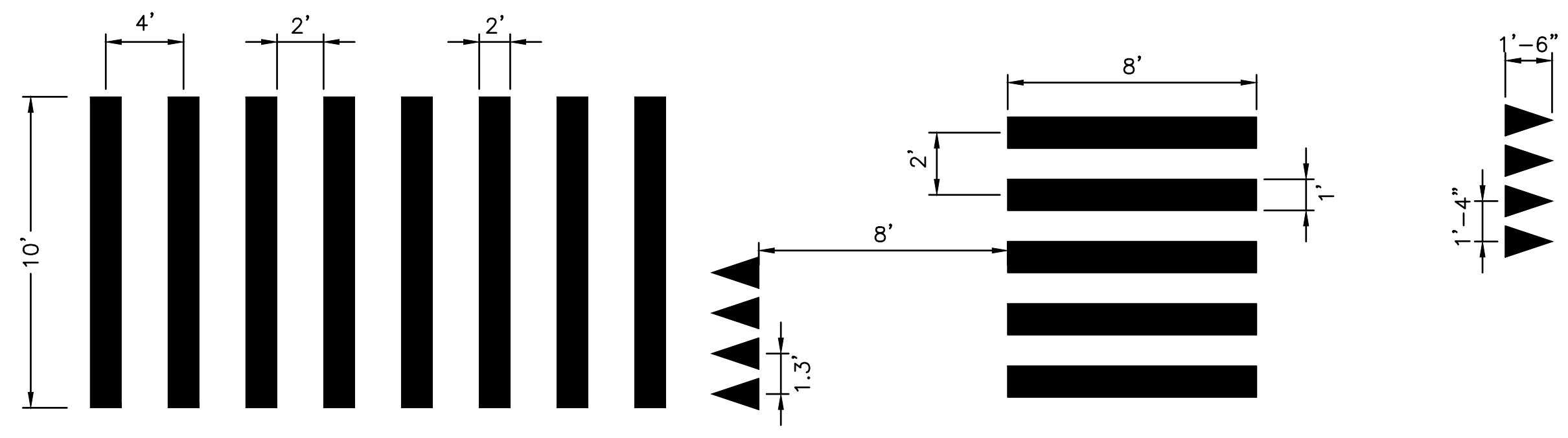
BROAD STREET/HAWTHORNE AVENUE INTERSECTION

CHECKED BY _____ DATE _____ SCALE 1"=20'



- NOTES:**
1. PLACE VEHICLE STOP LINE 13' IN ADVANCE OF THE BICYCLE STOP LINE.
 2. SEE GENERAL PLANS FOR BICYCLE BOX LOCATIONS AND SYMBOL LOCATIONS.
 3. DO NOT PLACE SYMBOLS ON LANE LINES, CROSSWALK LINES, OR STOP LINES.
 4. CENTER SYMBOLS BETWEEN VEHICLE STOP LINE AND BICYCLE STOP LINE.
 5. INSTALL GREEN SURFACE SO THAT CROSSWALK MARKINGS ARE NOT DISTURBED.

**TYPICAL BICYCLE BOX PLACEMENT
RIGHT SIDE BICYCLE LANE**
(NOT TO SCALE)



CROSSWALK NOTES:

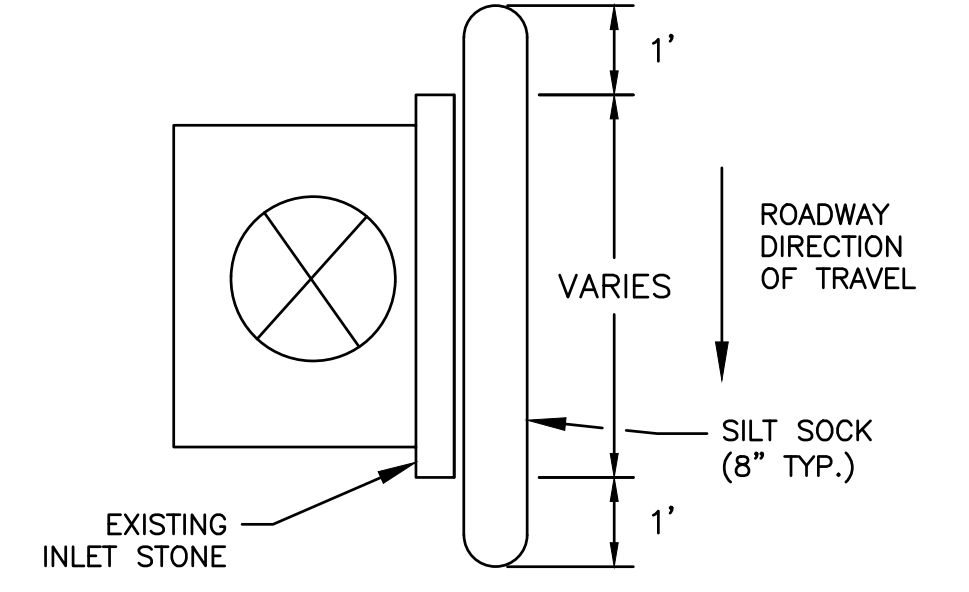
1. ALL CROSSWALKS TO ALIGN WITH EXISTING AND PROPOSED CURB RAMPS.
2. ALL CROSSWALK MARKINGS TO BE PARALLEL WITH VEHICLE TRAVEL DIRECTION.

TYPICAL CROSSWALK STRIPING (CW)
(NOT TO SCALE)

CROSSWALK NOTES:

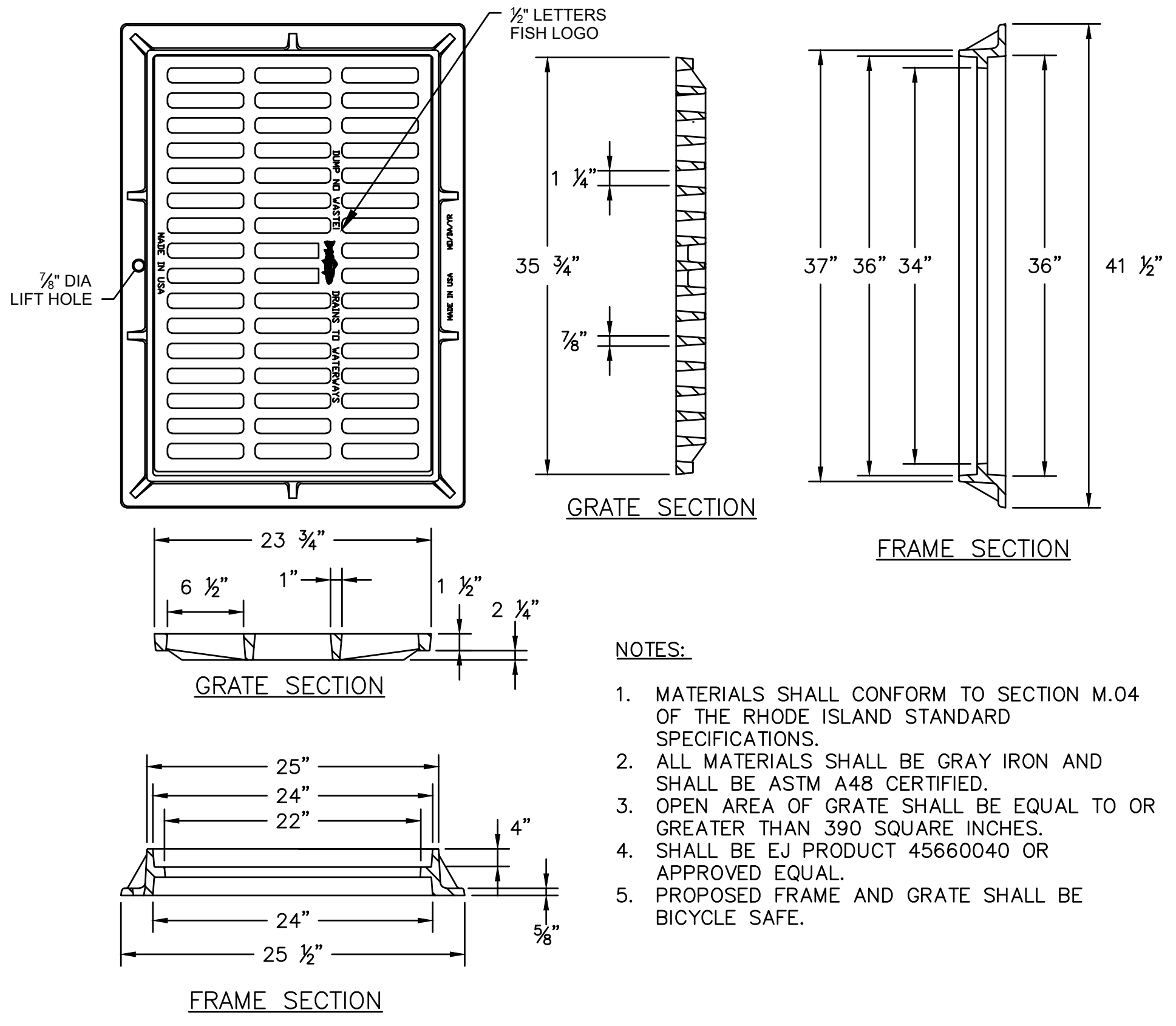
1. ALL CROSSWALKS TO ALIGN WITH EXISTING AND PROPOSED CURB RAMPS.
2. ALL CROSSWALK MARKINGS TO BE PARALLEL WITH BICYCLE TRAVEL DIRECTION.

TYPICAL 2-WAY URBAN TRAIL CROSSWALK STRIPING (CWBL)
(NOT TO SCALE)



- NOTES:**
1. SILT SOCK MANUFACTURER TO BE FILTREXX OR ENGINEER APPROVED EQUAL.
 2. ALL MATERIAL TO MEET MANUFACTURER'S SPECIFICATIONS OR SECTION 206.02.4 OF THE RIDOT STANDARD SPECIFICATIONS.
 3. SEDIMENT SILT SOCK TO BE FILLED WITH MULCH COMPOST AND/OR WOODY MULCH PER MANUFACTURER'S REQUIREMENT.
 4. FOLLOWING CONSTRUCTION, COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE, AS APPROVED BY THE ENGINEER.
 5. FILTER SOCK SHALL BE CHECKED AFTER EVERY RAIN STORM.

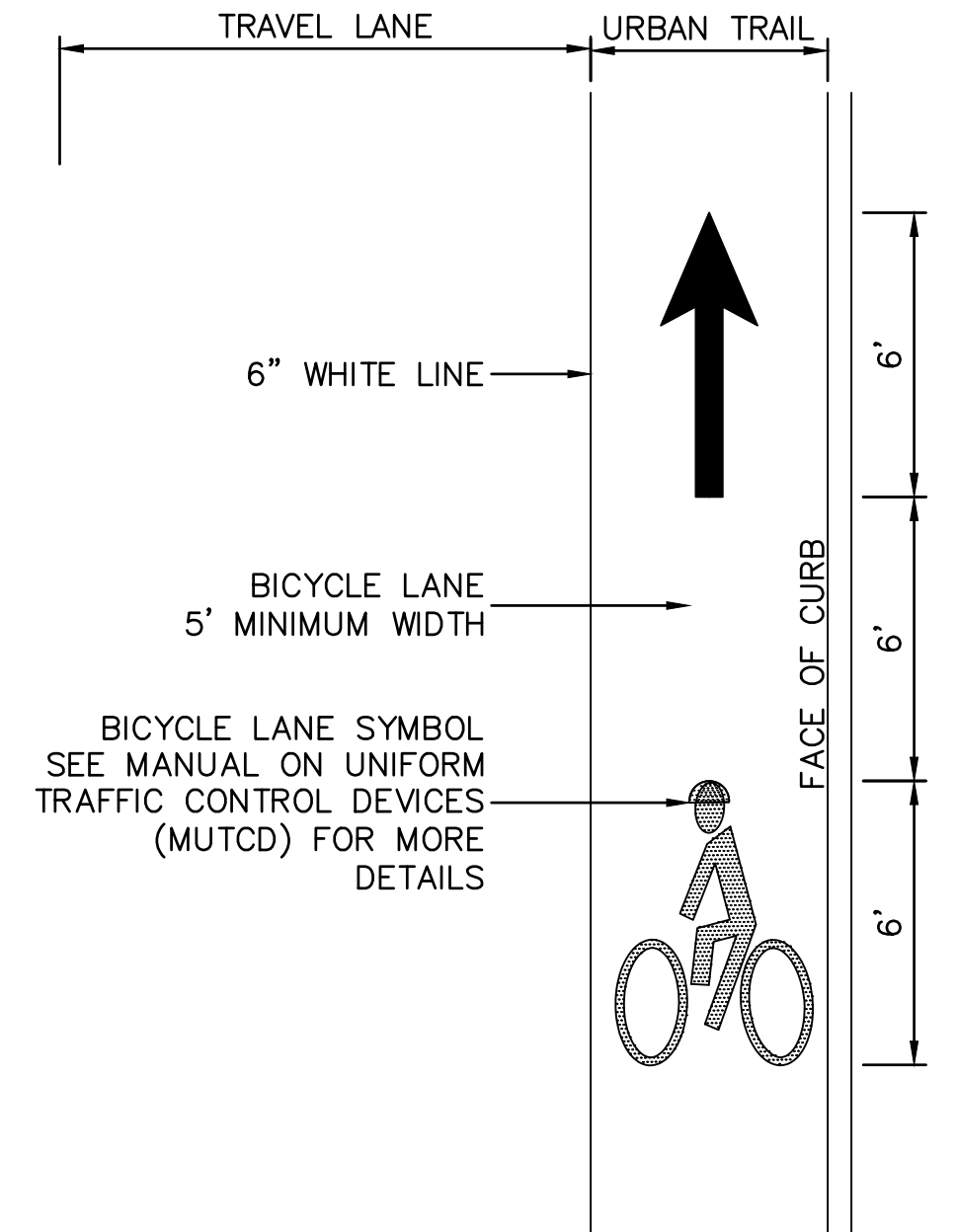
COMPOST FILTER SOCK (CFS)
(NOT TO SCALE)



NOTES:

1. MATERIALS SHALL CONFORM TO SECTION M.04 OF THE RHODE ISLAND STANDARD SPECIFICATIONS.
2. ALL MATERIALS SHALL BE GRAY IRON AND SHALL BE ASTM A48 CERTIFIED.
3. OPEN AREA OF GRATE SHALL BE EQUAL TO OR GREATER THAN 390 SQUARE INCHES.
4. SHALL BE EJ PRODUCT 45660040 OR APPROVED EQUAL.
5. PROPOSED FRAME AND GRATE SHALL BE BICYCLE SAFE.

PROVIDENCE STANDARD FRAME AND GRATE (6.3.6P)
(NOT TO SCALE)

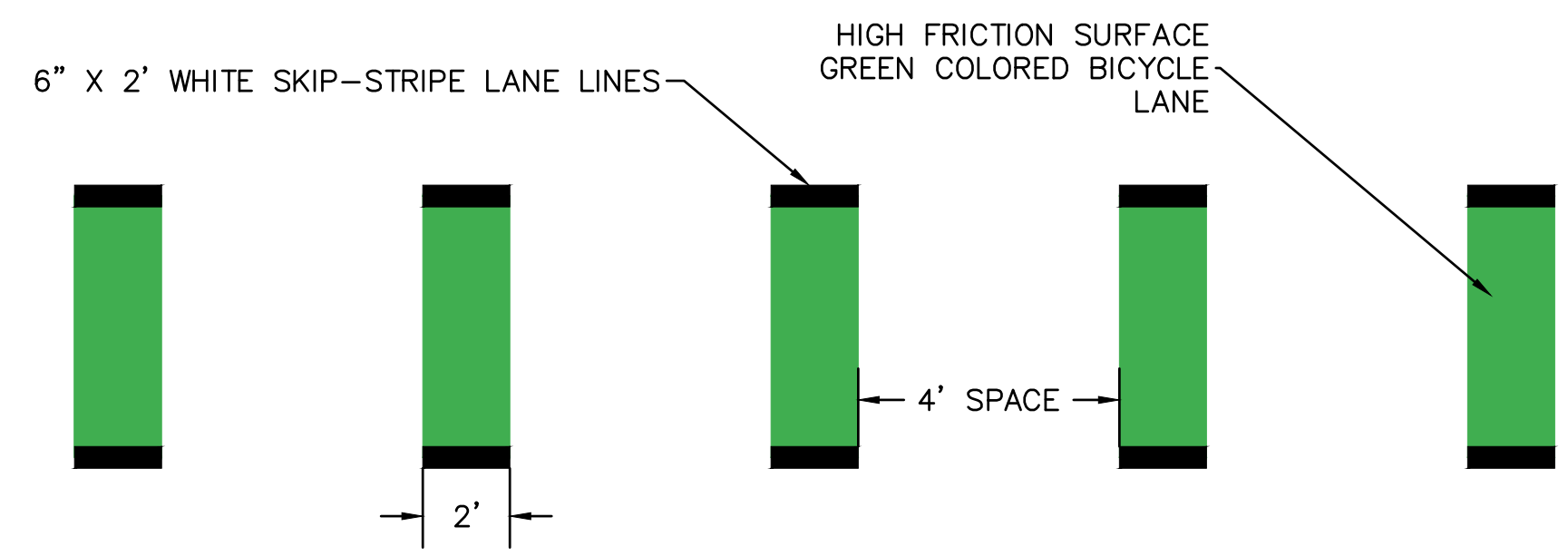


URBAN TRAIL MARKINGS (SUPM)
(NOT TO SCALE)

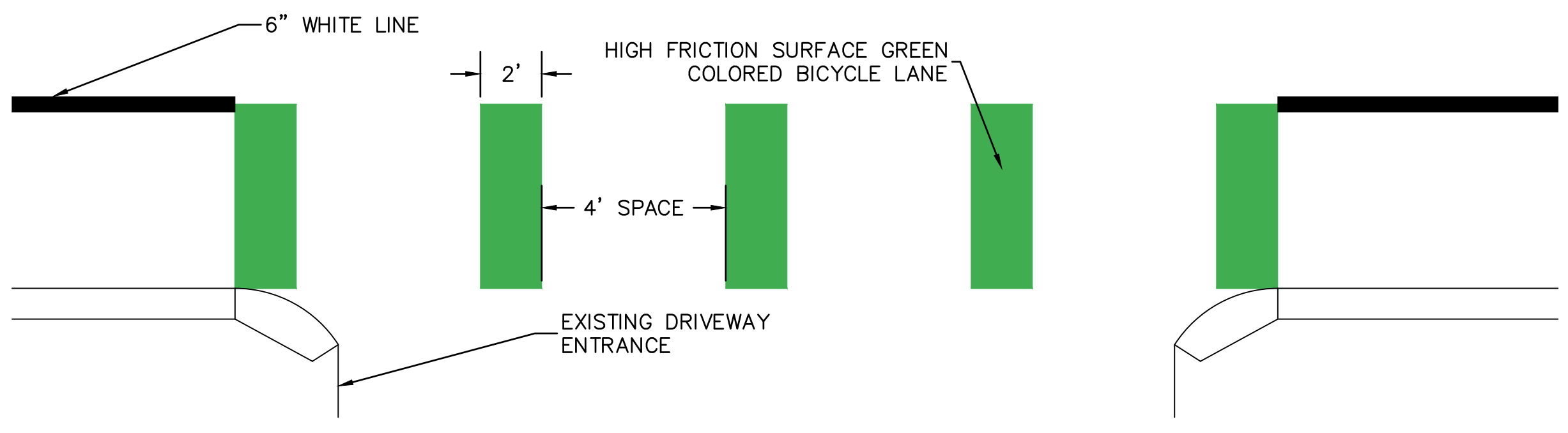


REVISIONS		
NO.	DATE	BY

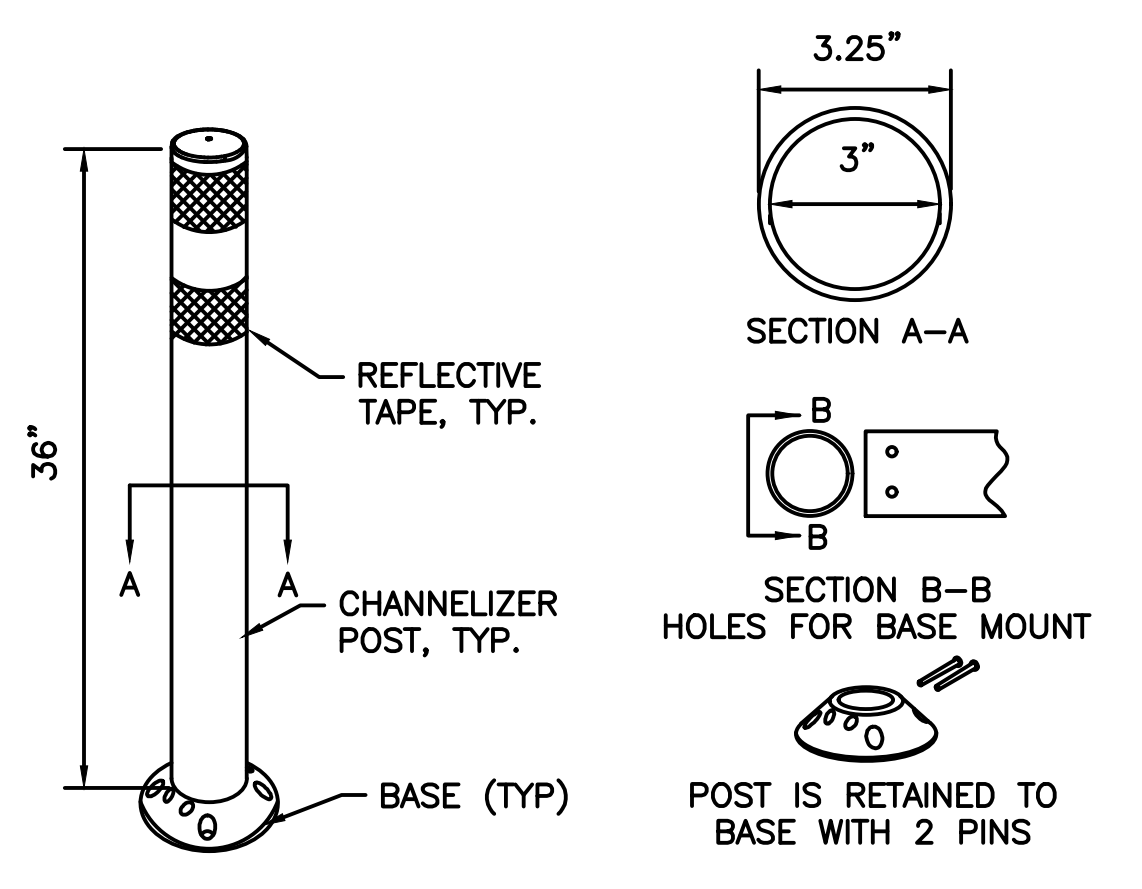
RHODE ISLAND DEPARTMENT OF TRANSPORTATION		
PHASE 2 BROAD STREET IMPROVEMENTS		
PROVIDENCE, RHODE ISLAND		
DETAILS SHEET NO. 1		
CHECKED BY _____	DATE _____	SCALE AS SHOWN



ONE-WAY URBAN TRAIL STRIPING THROUGH INTERSECTION
(NOT TO SCALE)

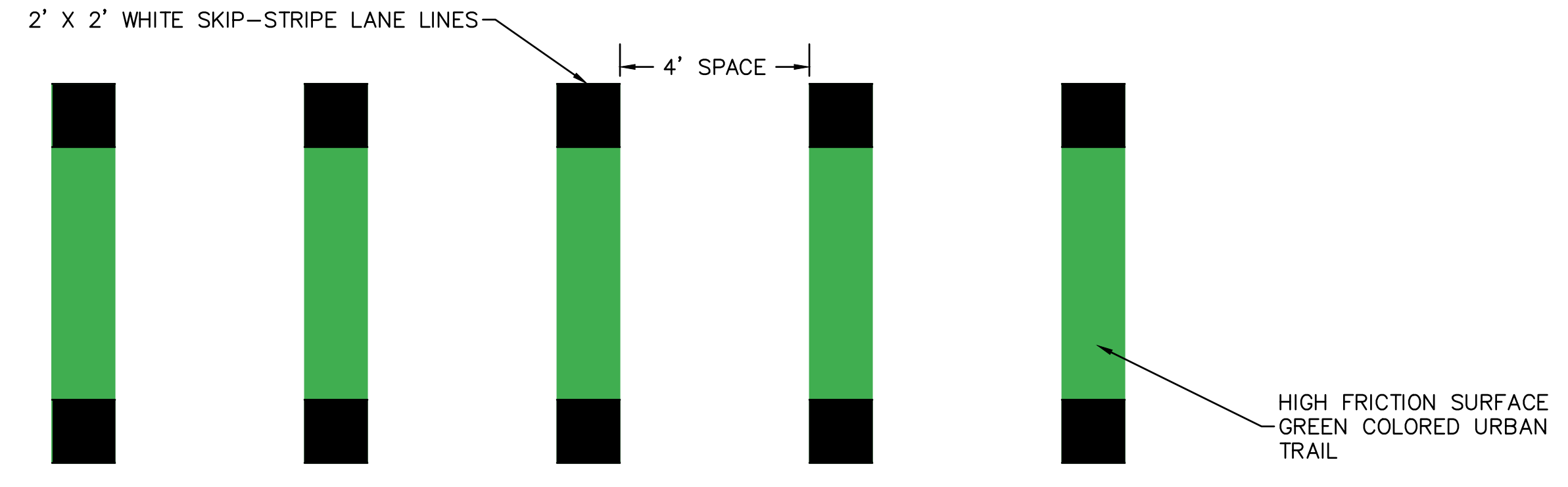


ONE-WAY URBAN TRAIL STRIPING THROUGH DRIVEWAY
(NOT TO SCALE)

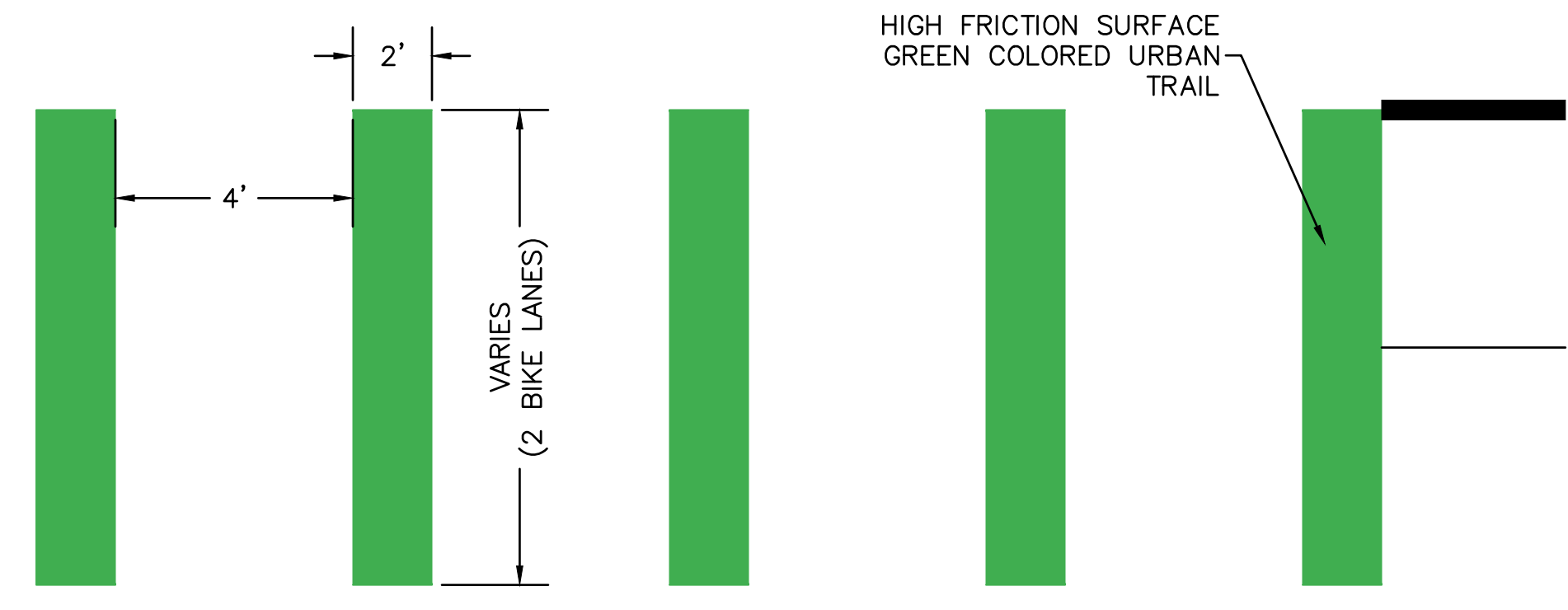


- NOTES:**
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 - DIMENSIONS, MATERIALS, AND ATTACHMENTS MAY VARY BETWEEN MANUFACTURERS.
 - COLOR OF POST SHALL BE YELLOW.

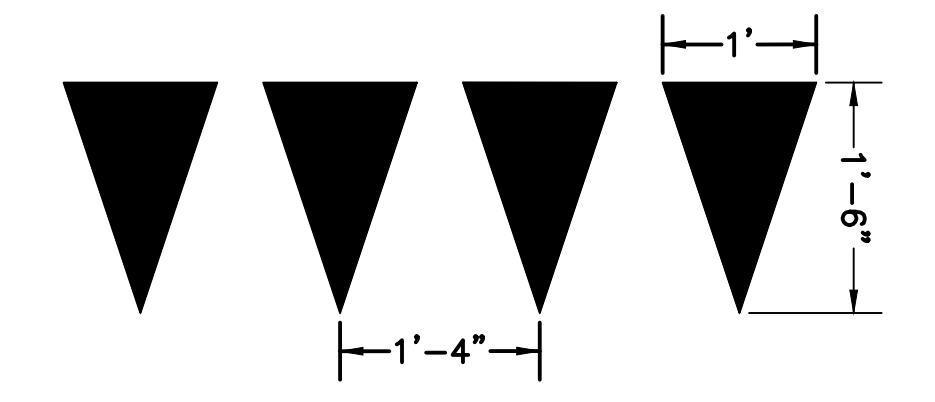
FLEXIBLE DELINEATOR POST (FDP)
(NOT TO SCALE)



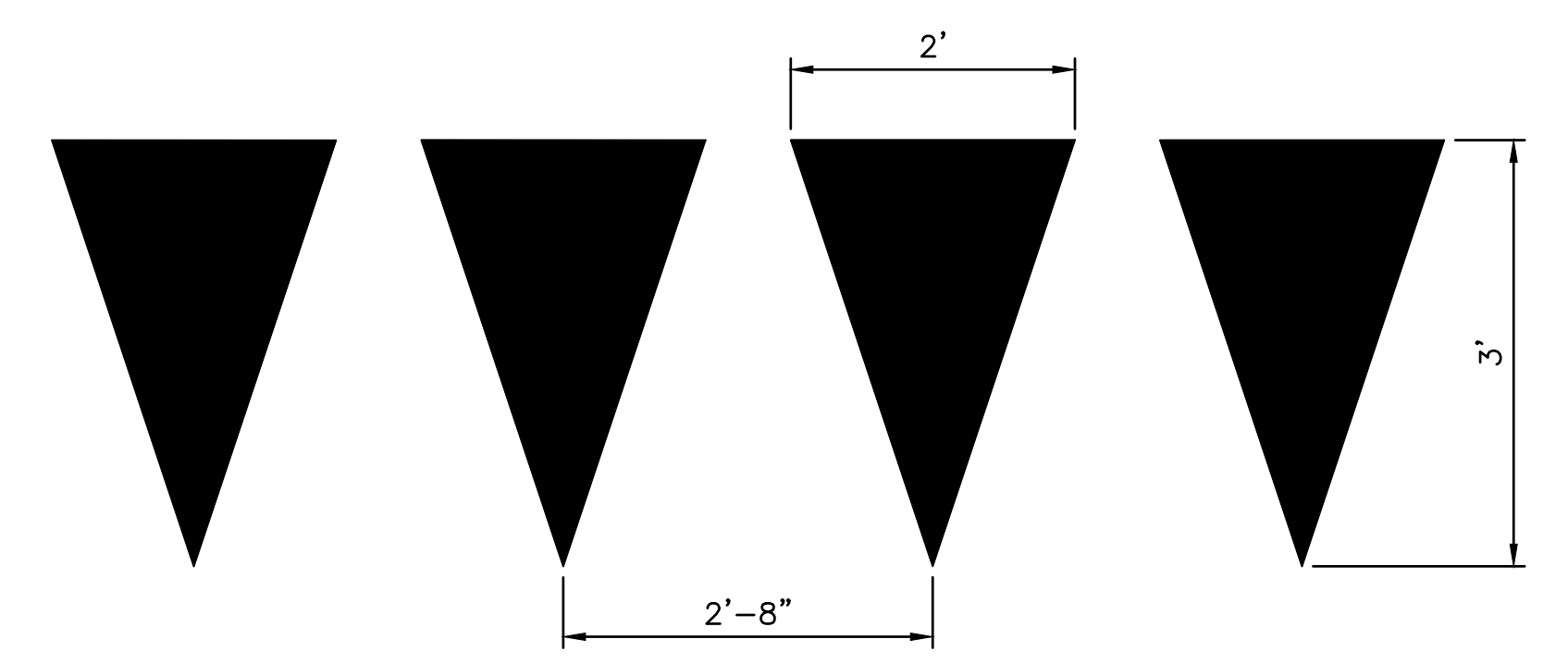
TWO-WAY URBAN TRAIL STRIPING THROUGH INTERSECTION
(NOT TO SCALE)



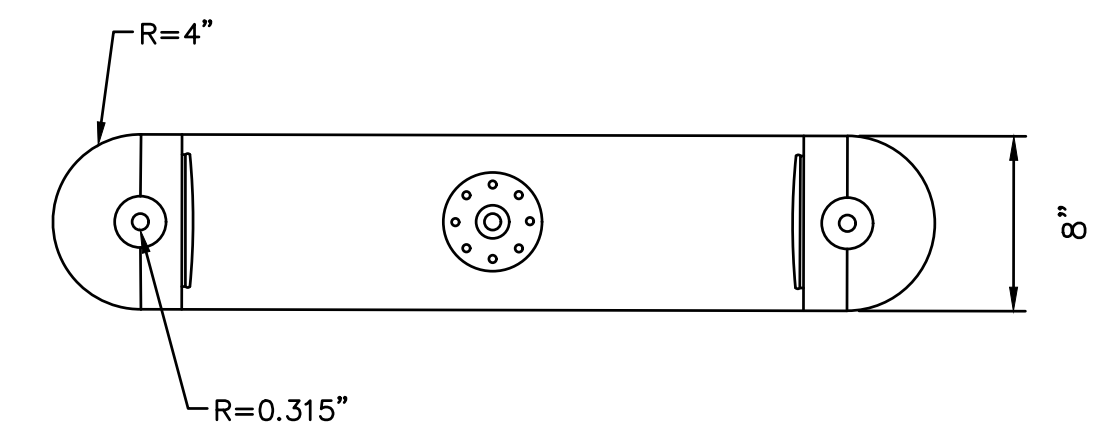
TWO-WAY URBAN TRAIL STRIPING THROUGH DRIVEWAY
(NOT TO SCALE)



BICYCLE YIELD LINE DETAIL (BYL)
(NOT TO SCALE)

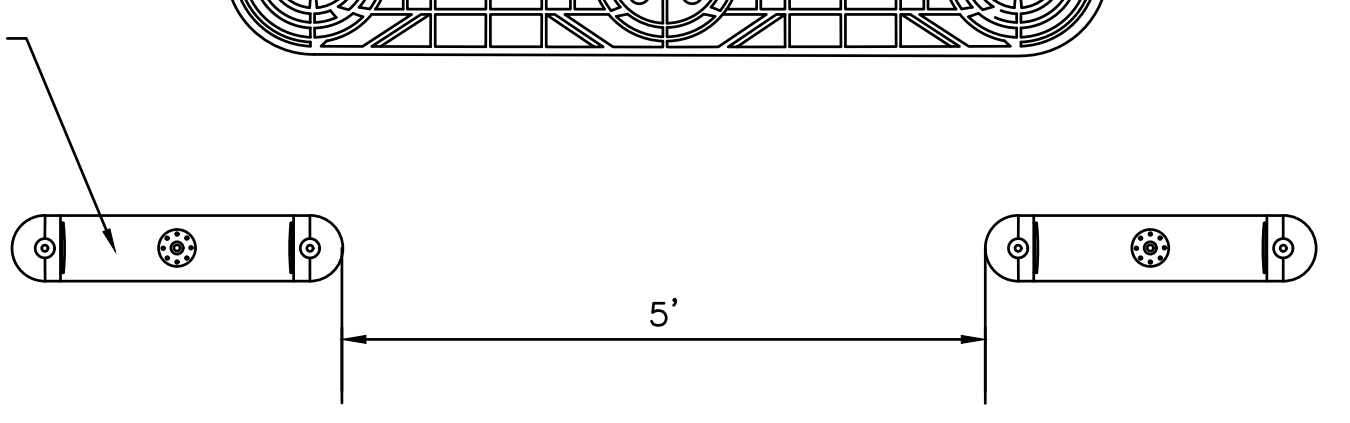
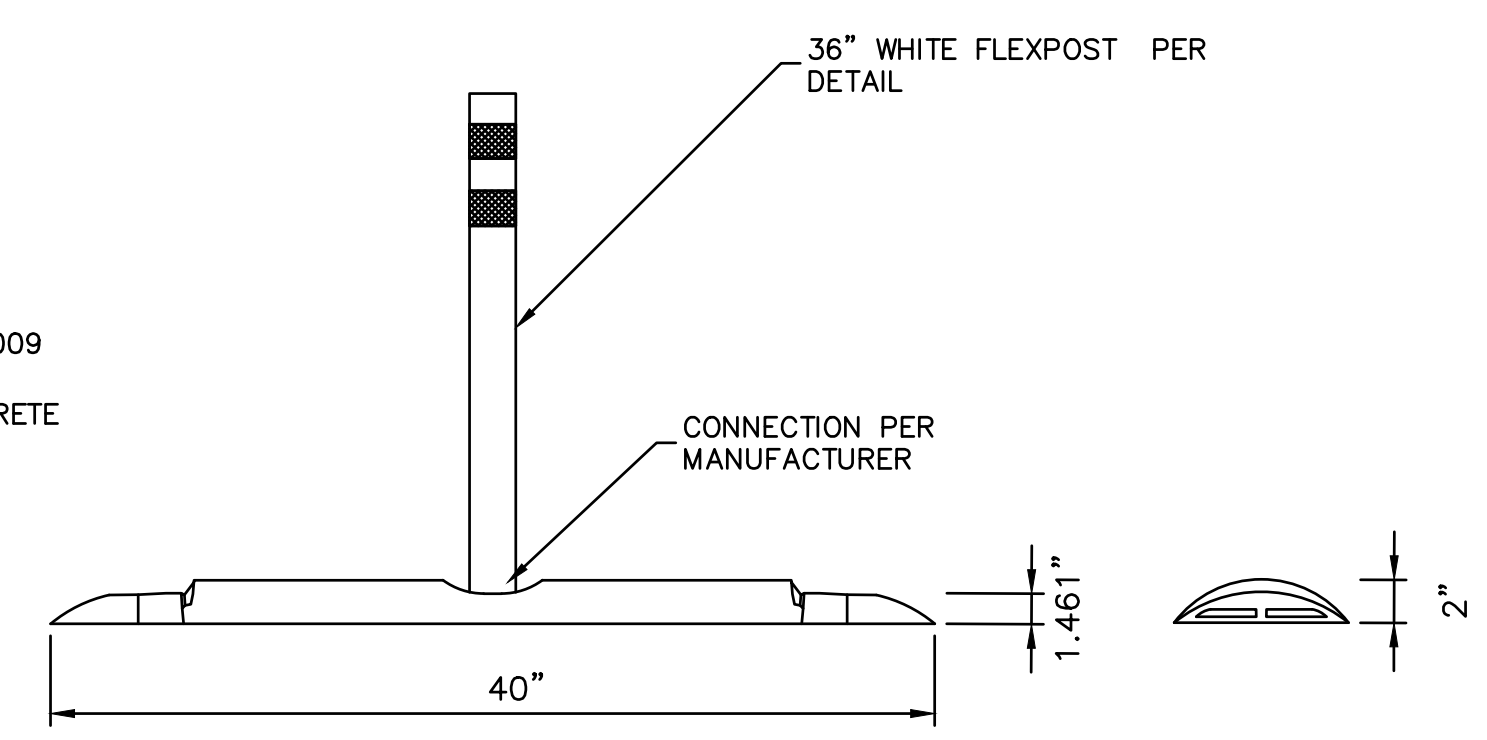


VEHICLE YIELD LINE DETAIL (YL)
(NOT TO SCALE)

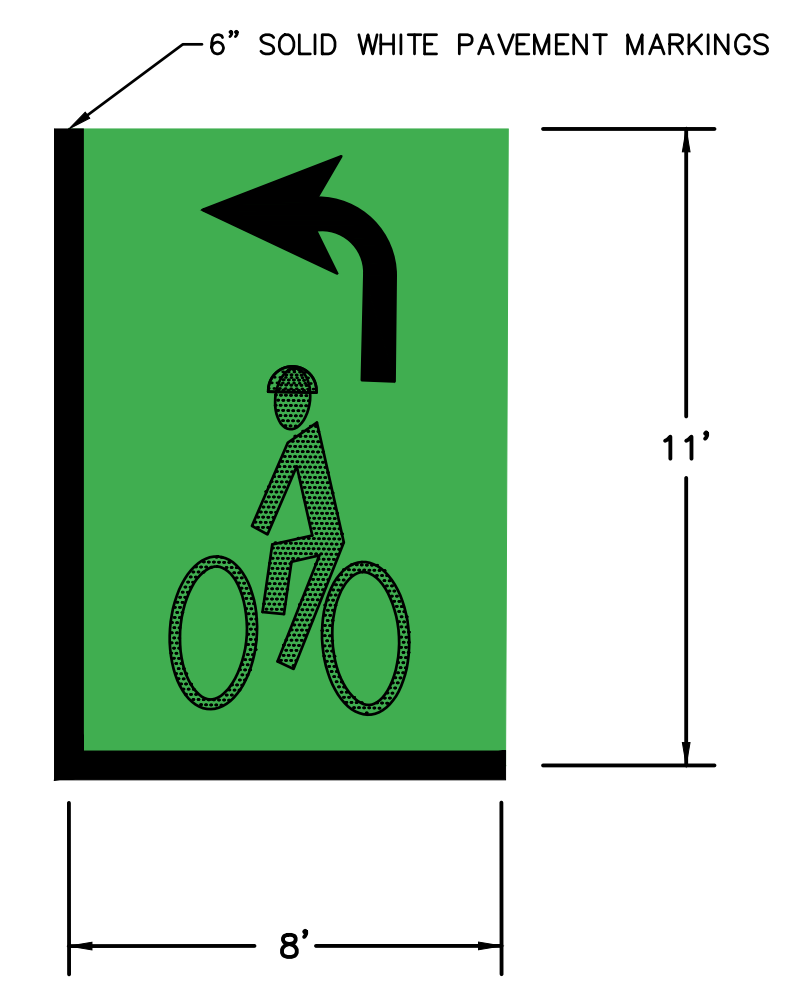


- MANUFACTURING INFORMATION**
- INJECTION MOLDED
 - UV STABILIZED HDPE
 - COLOR: MATCH APPLICABLE LINE

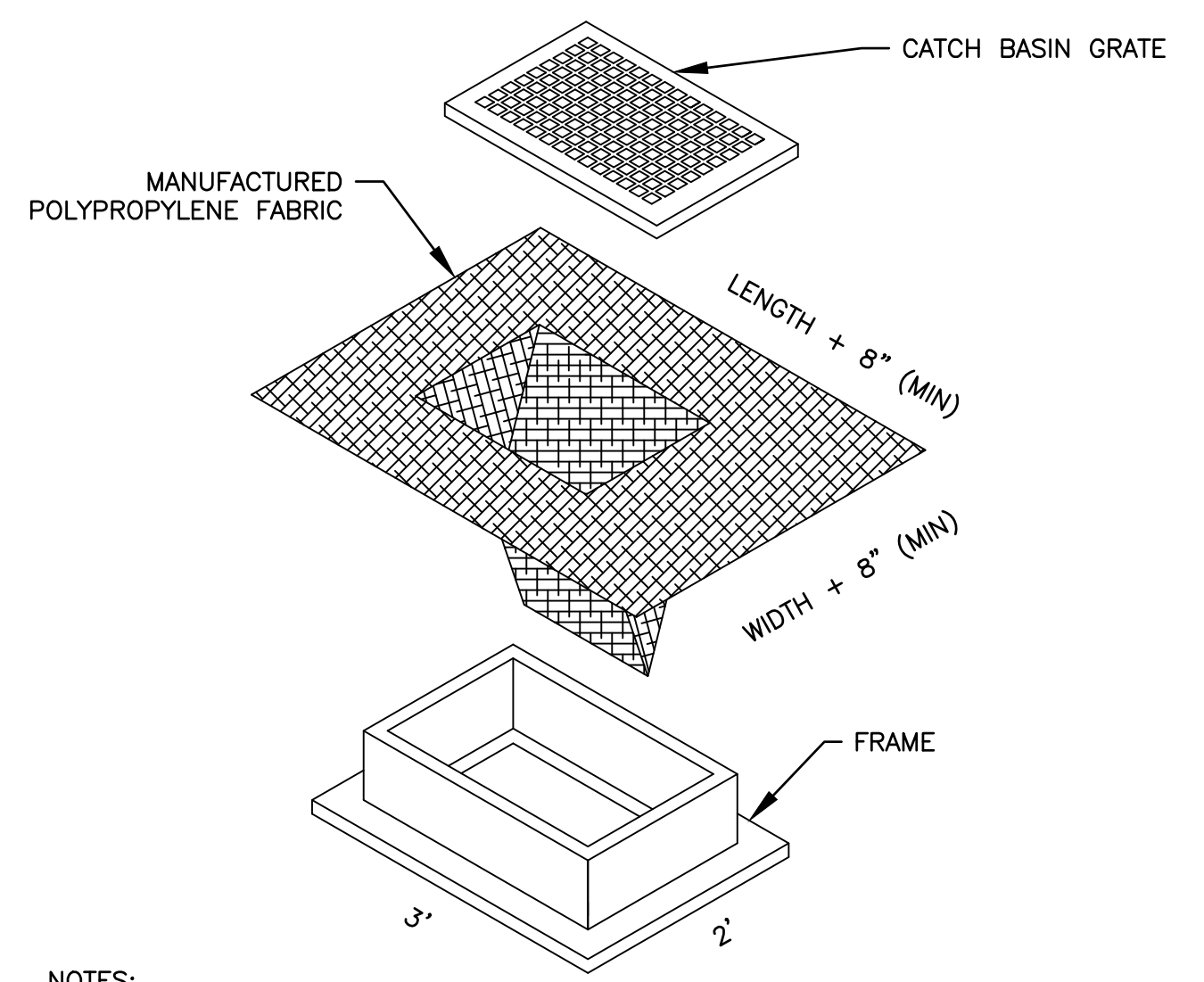
- INTENDED USE**
- CRASHWORTHINESS TESTED TO 2009 M.A.S.H. STANDARDS
 - INSTALL USING 1/2" X 4" CONCRETE SCREW ANCHORS (DRILLED)



TRAFFIC SEPARATOR CURB (MODULAR BASE) (TSC)
(NOT TO SCALE)



LEFT-TURN BOX DETAIL
(NOT TO SCALE)

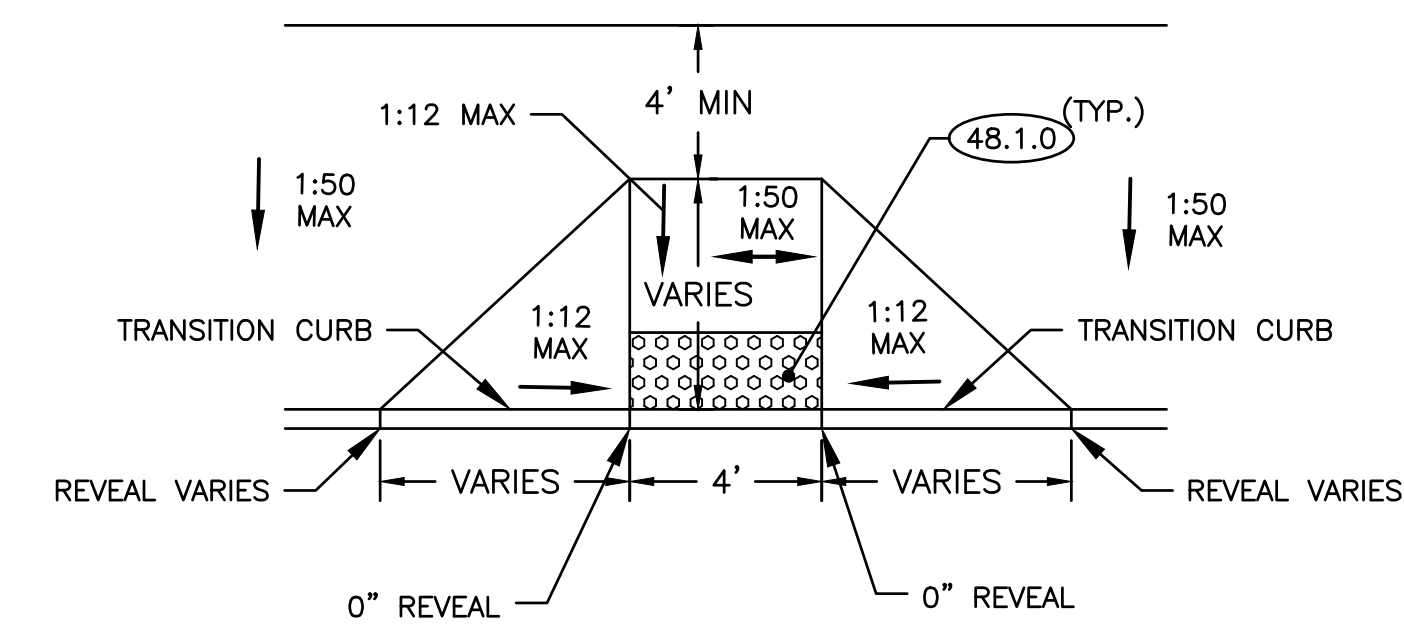


- NOTES:**
- LENGTH AND WIDTH OF POLYPROPYLENE FABRIC MUST EXCEED EXISTING CATCH BASIN DIMENSIONS BY A MINIMUM OF 8"
 - REMOVE CATCH BASIN GRATE AND INSTALL POLYPROPYLENE FABRIC IN PLACE.
 - CATCH BASINS THAT REQUIRE CLEANING SHALL BE CLEANED BEFORE THE SILT SACK IS INSTALLED.

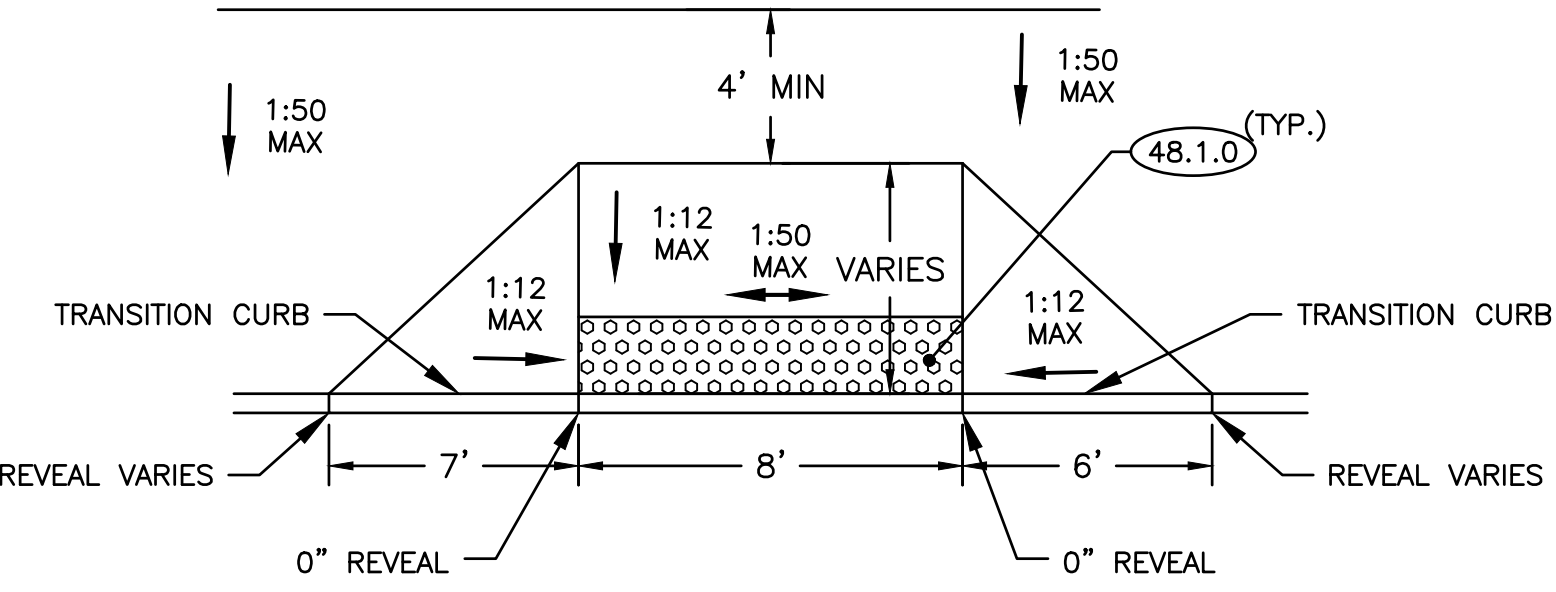
SILT SACK INLET SEDIMENT CONTROL DEVICE (SSK)
(NOT TO SCALE)



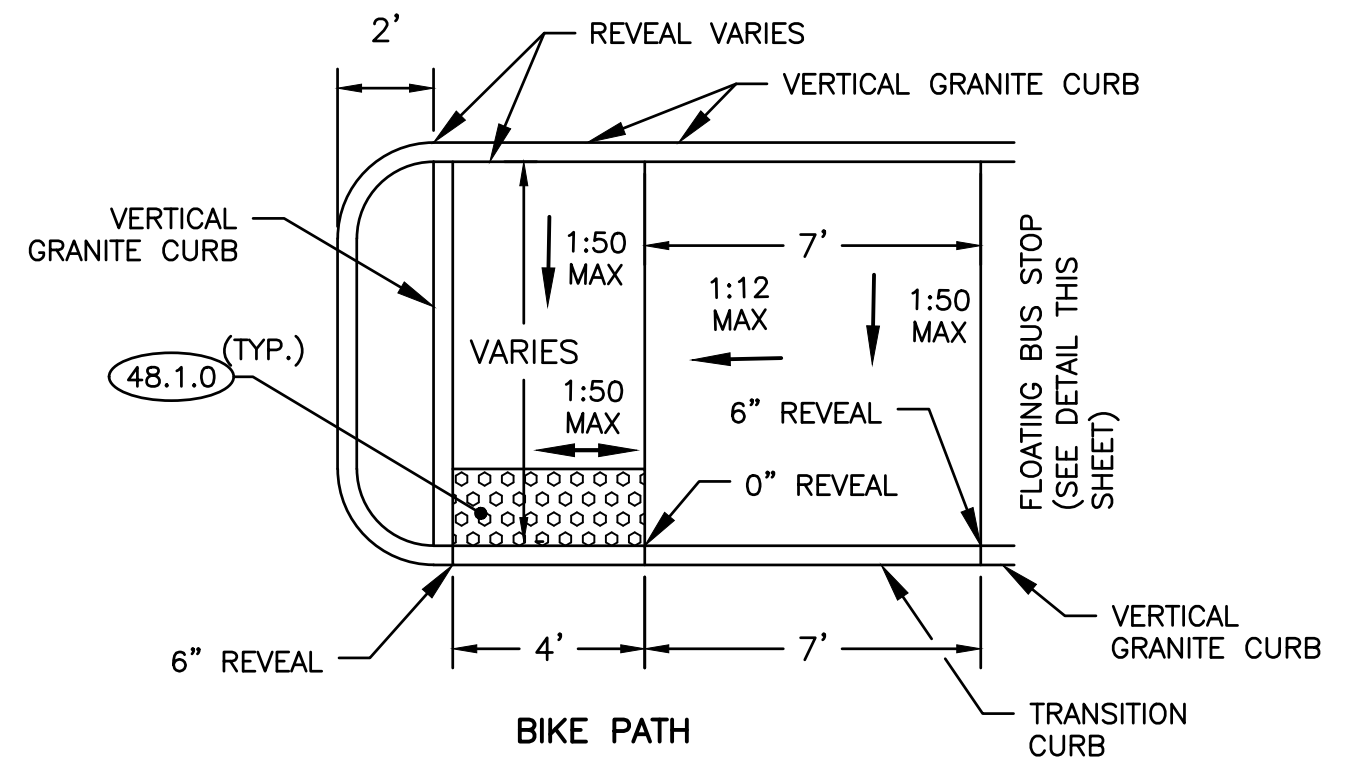
REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION
NO.	DATE	BY	
			PHASE 2 BROAD STREET IMPROVEMENTS
			PROVIDENCE, RHODE ISLAND
			DETAILS SHEET NO. 2
			CHECKED BY _____ DATE _____ SCALE AS SHOWN



SPECIAL CURB RAMP, TYPE 1 (SCR1)
(NOT TO SCALE)



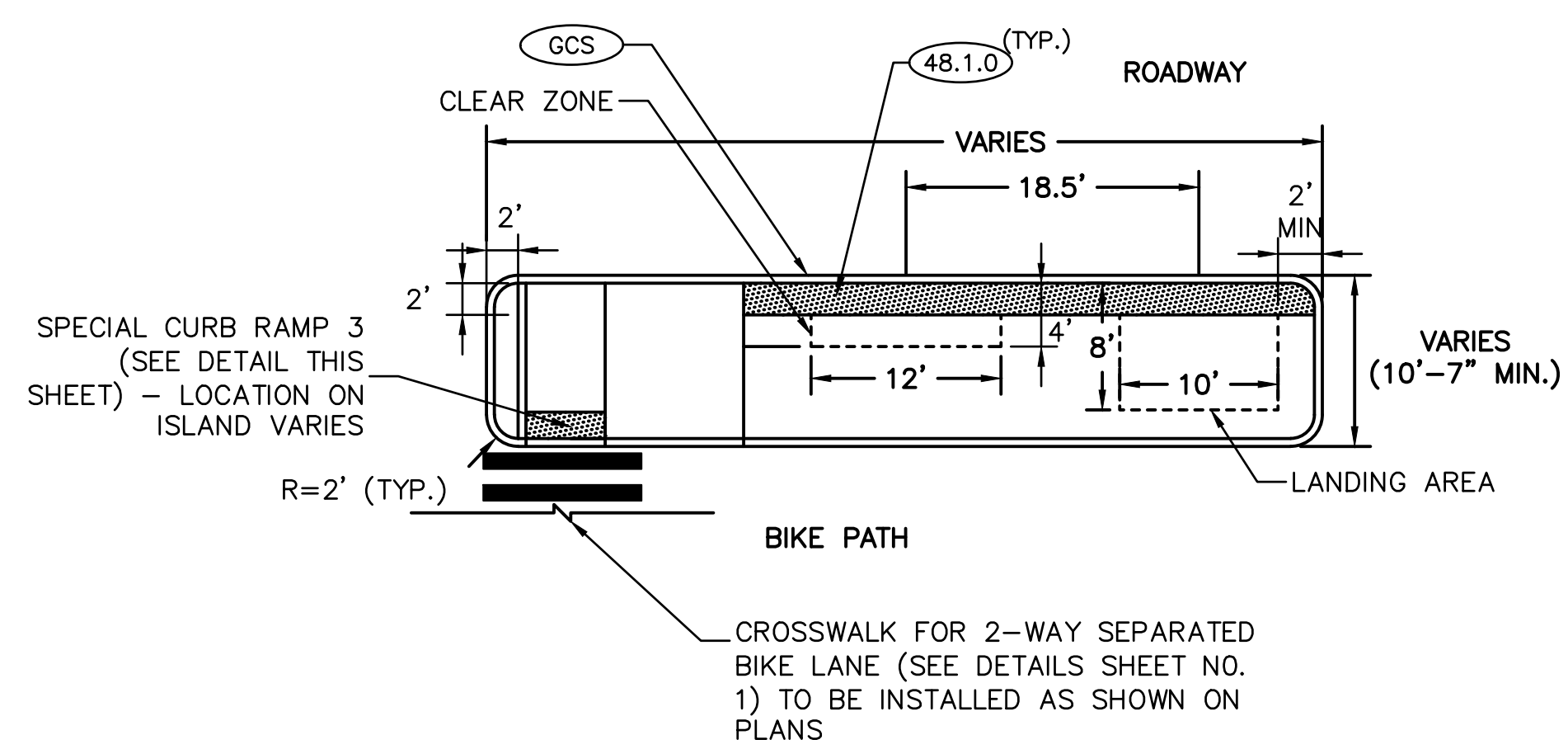
SPECIAL CURB RAMP, TYPE 2 (SCR2)
(NOT TO SCALE)



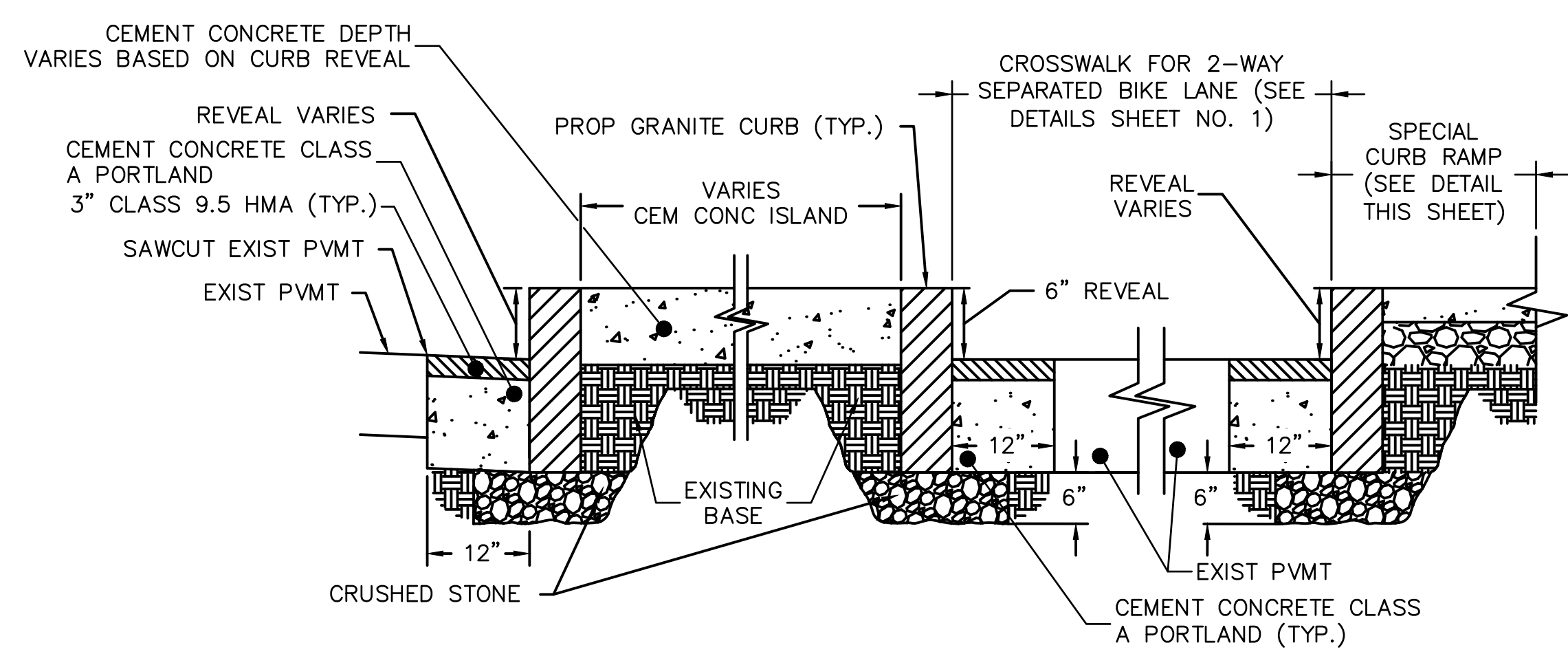
SPECIAL CURB RAMP, TYPE 3 (SCR3)
(NOT TO SCALE)

GENERAL NOTES FOR SPECIAL CURB RAMPS:

- SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
- WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, THE CURB RAMP WILL BE PLACED SUCH THAT THE OBSTRUCTION FALLS OUTSIDE OF THE RAMP.
- AT NO TIME IS ANY PART OF THE CURB RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
- DRAINAGE FACILITIES ARE TO BE LOCATED UP-GRADE OF ALL CURB RAMPS.
- LOCATION OF CURB RAMPS ARE AS SHOWN ON CONTRACT DRAWINGS.
- AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 3'-0" SHALL BE MAINTAINED.
- THE TOP OF CURB SLOPE AND SIDE SLOPES (TRANSITIONS), MUST NOT EXCEED 1:12. HOWEVER, THESE SLOPES MAY BE FLATTER THAN 1:12 WHEN WARRANTED BY SURROUNDING CONDITIONS.
- WHERE THE ROAD PROFILE EXCEEDS 5% THE HIGH SIDE TRANSITION LENGTH (T) SHALL BE EIGHTEEN FEET (18'-0").
- IN NO CASE, WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED BEHIND THE STOP LINE.
- THE ENTRANCE OF THE CURB RAMP SHALL BE FLUSH WITH THE ROADWAY.
- THE CURB RAMP SHALL BE CENTERED RADIALLY, OPPOSITE THE RADIUS POINT WHEN POSSIBLE.
- MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
- ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.
- DETECTABLE WARNINGS TO BE PAID FOR UNDER SECTION 942 OF THE RI STANDARD SPECIFICATION.
- 8" CONCRETE DEPTH FOR RADIUS CURB RAMPS ONLY. USE 4" DEPTH FOR TANGENT (MID-BLOCK) LOCATIONS.
- ANY SPECIAL CURB RAMP THAT HAS A TRANSITION LENGTH LESS THAN 6' SHALL HAVE A CURB REVEAL OF LESS THAN 6" AND A TRANSITION SLOPE OF NO MORE THAN 1:12.
- THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 1:50 UNLESS WARRANTED BY EXISTING CONDITIONS.



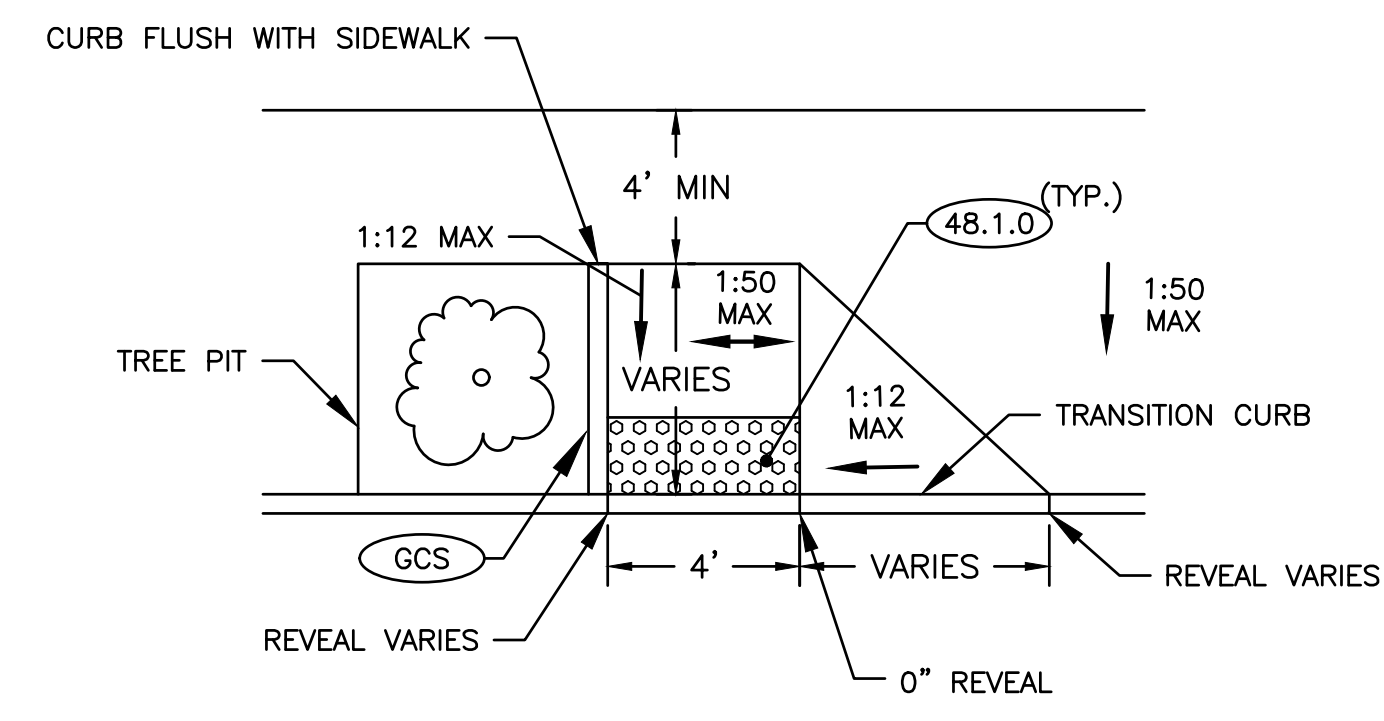
PLAN VIEW



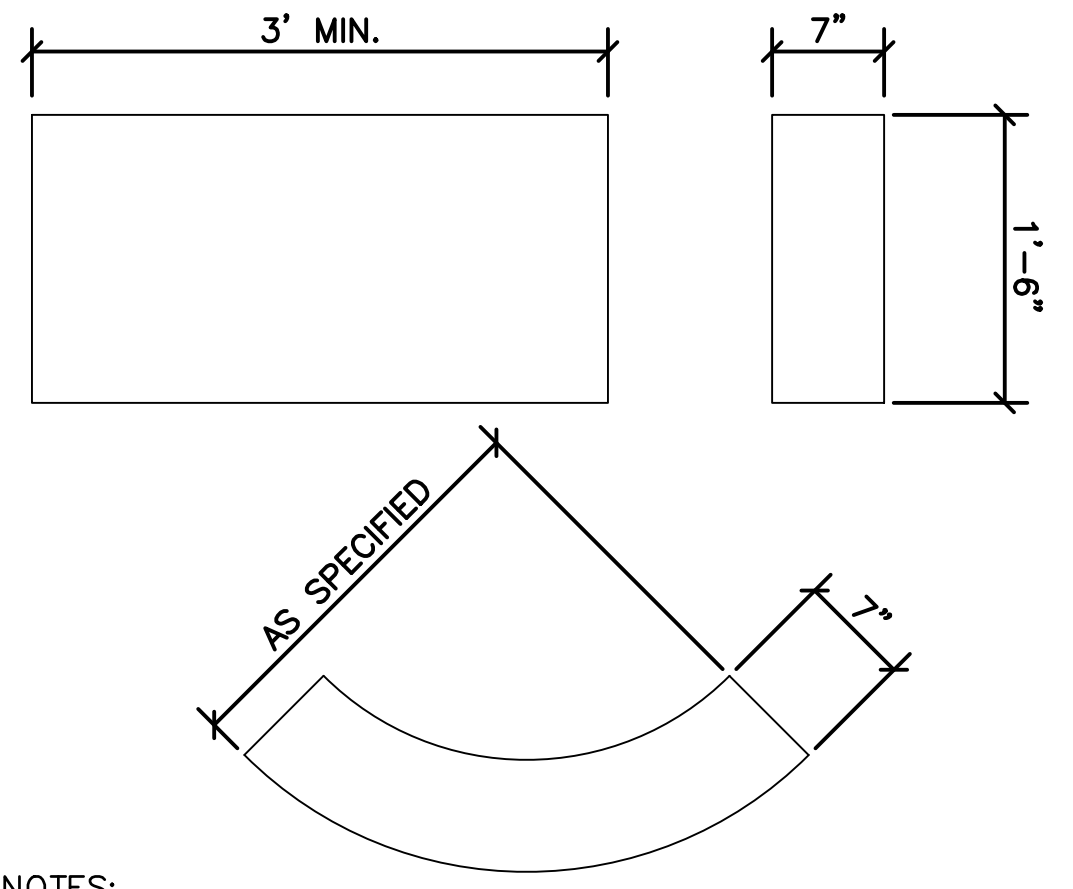
FLOATING BUS STOP DETAIL (FBS)
(NOT TO SCALE)

NOTES FOR SPECIAL CURB RAMP, TYPE 3:

- THIS RAMP CAN BE INSTALLED ON EITHER END OF THE FLOATING BUS STOP.
- THE RAMP TRANSITION SHALL BE 4' FROM LANDING AREA OF THE FLOATING BUS STOP.
- THE RAMP TRANSITION SHALL BE 2' FROM CLEAR ZONE OF THE FLOATING BUS STOP.
- RAMPS SHALL HAVE A CURB REVEAL OF 6" AT THE BIKE PATH SIDE OF THE ISLAND, AND A VARIABLE CURB REVEAL AT THE STREET SIDE OF THE ISLAND.
- THE GUTTER LINE OF THE RAMP SHALL BE CONSTRUCTED SO THAT THAT THE ROADWAY DRAINS AWAY FROM THE LANDING AREA.



SPECIAL CURB RAMP, TYPE 4 (SCR4)
(NOT TO SCALE)



NOTES:

- SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE RI STANDARD SPECIFICATIONS.
- TOP SURFACE TO BE DRESSED BY SAW. REMAINDER TO BE SAWCUT OR QUARRY SPLIT.
- MINIMUM LENGTH OF PIECES TO BE 3'-0".
- CIRCULAR CURB IS REQUIRED ON CURVES AS INDICATED. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.
- CURB TO BE SET PER PROVIDENCE CURB SETTING DETAIL.

GRANITE CURB - STRAIGHT AND CIRCULAR DETAIL
(NOT TO SCALE)



REVISIONS		
NO.	DATE	BY

RHODE ISLAND DEPARTMENT OF TRANSPORTATION		
PHASE 2 BROAD STREET IMPROVEMENTS		
PROVIDENCE, RHODE ISLAND		
DETAILS SHEET NO. 3		
CHECKED BY	DATE	SCALE AS SHOWN

NOTES:

- ALL TEMPORARY TRAFFIC CONTROL SET-UPS AND DEVICES AND THEIR INSTALLATION, MAINTENANCE, AND REMOVAL SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) WITH ALL REVISIONS, AND THE LATEST EDITION OF THE "RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" WITH ALL REVISIONS.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED. WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME, TEMPORARY TRAFFIC CONTROL DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
- DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- THE MAXIMUM ALLOWABLE LENGTH OF THE SHIFTED TANGENT SECTION FOR THE TEMPORARY TRAFFIC CONTROL SET-UP SHOWN IS 600 FEET.
- MAXIMUM SPACING OF CHANNELIZATION DEVICES IN A TAPER IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH. MAXIMUM SPACING OF CHANNELIZATION DEVICES IN A TANGENT SECTION IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH. SHORTER SPACINGS BETWEEN TRAFFIC TRAVELING IN OPPOSITE DIRECTIONS WHERE ADDITIONAL EMPHASIS IS NEEDED TO CLEARLY DEFINE THE DESIRED TRAVEL PATHS.
- MINIMUM LANE WIDTH IS TO BE 11 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF CHANNELIZATION DEVICES.
- THE SIZES OF ALL DIAMOND SHAPED ADVANCE WARNING SIGNS SHALL BE 36" X36".
- PEDESTRIANS SHALL BE CONSIDERED IN ALL MAINTENANCE AND PROTECTION OF TRAFFIC SETUPS. THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS ROUTES/RAMPS THROUGH CONSTRUCTION AREAS TO ENSURE THIS ACCESS. THE TEMPORARY PEDESTRIAN ACCESS SHALL BE DETECTABLE AND INCLUDE ACCESSIBILITY FEATURES COMPLIANT WITH THE ADA AND MUTCD, INCLUDING TEMPORARY CURB RAMPS. THE TEMPORARY BARRIER SHALL MEET ADA REQUIREMENTS THROUGH WORK ZONES. THE CONTRACTOR MUST PROVIDE FOR PEDESTRIANS TO SAFELY GUIDE THEM AWAY FROM BROKEN AND UNEVEN PAVEMENT, OPEN EXCAVATIONS, DROP-OFFS, CONSTRUCTION OPERATIONS, AND OTHER HAZARDS AT ALL TIMES. TEMPORARY CURB RAMPS SHALL BE PROVIDED FOR SIDEWALK DIVERSIONS, WHERE NECESSARY. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR THE PROVISION OF PEDESTRIAN WAYS, ALL COSTS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

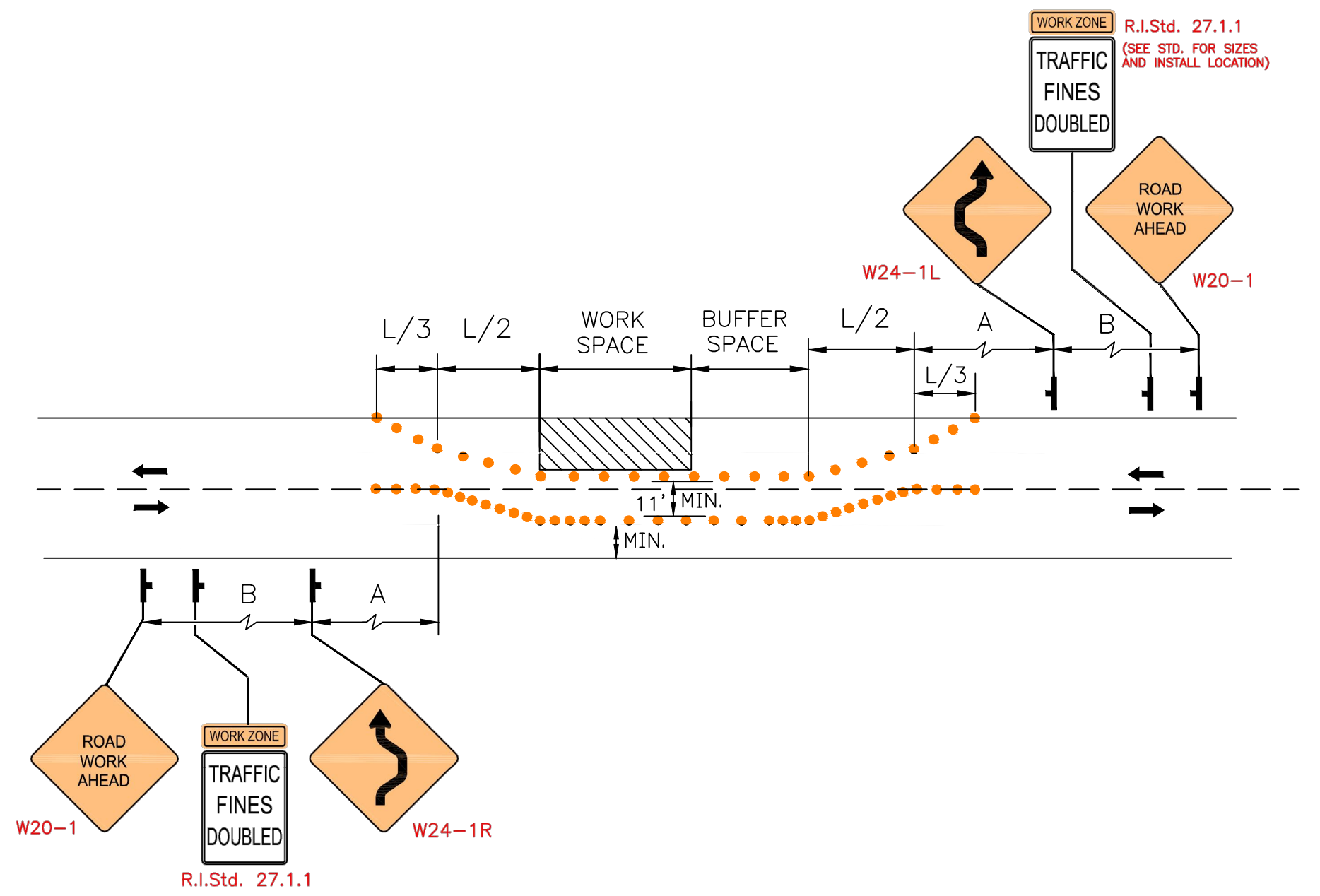
Speed Limit	Taper Length* (L) Feet	Upstream Buffer Space* (Feet)
25 MPH	125	55

* Required
NOTE: CHART VALUES ASSUME W (WIDTH OF OFFSET) IS EQUAL TO 11 FEET.

TABLE 1
BUFFER LENGTHS

Posted Speed Limit & Location	DISTANCE BETWEEN SIGNS (Feet)		
	A	B	C
30 MPH OR LESS in URBAN OR RURAL AREA	100	100	100

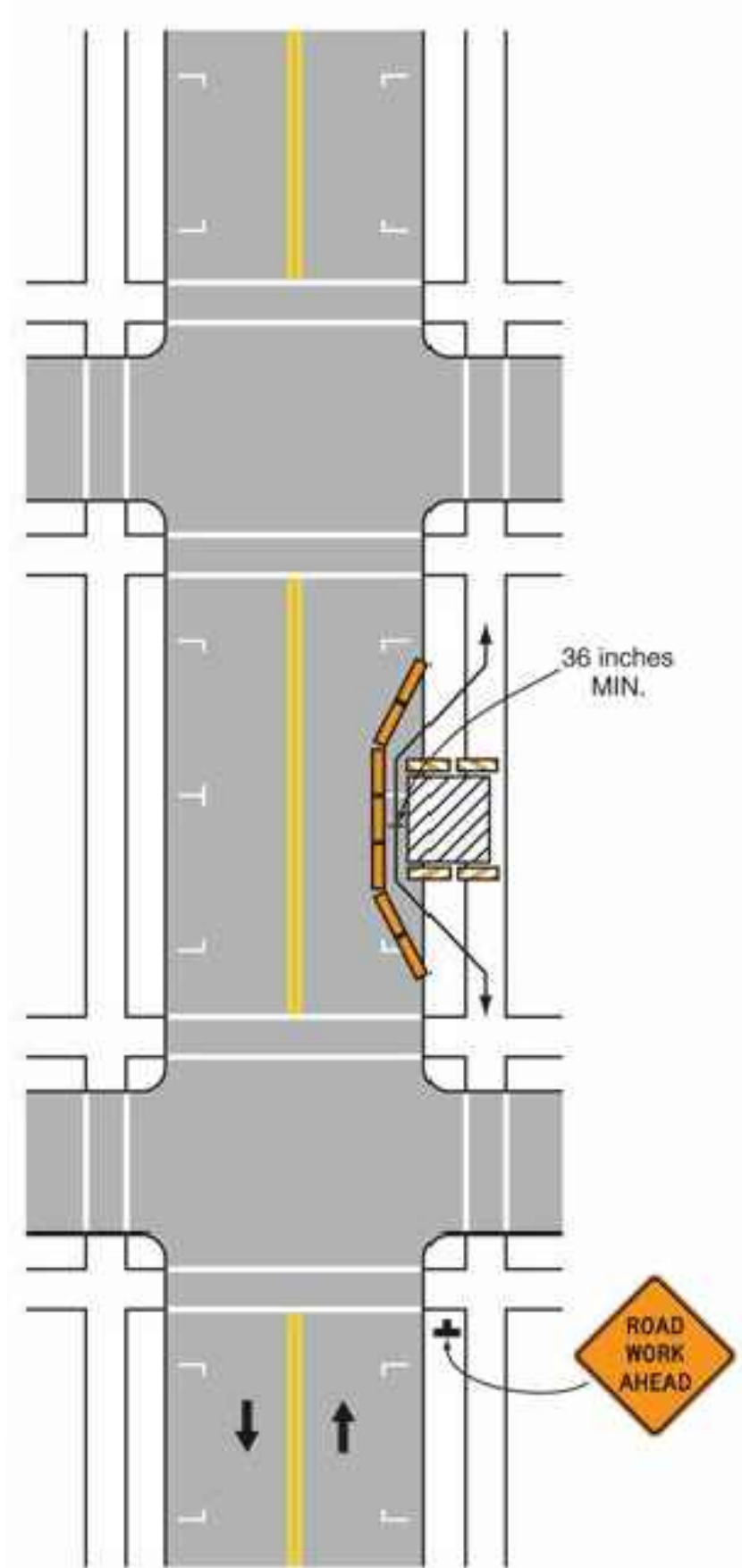
TABLE 2
MINIMUM ADVANCE WARNING SIGN SPACING



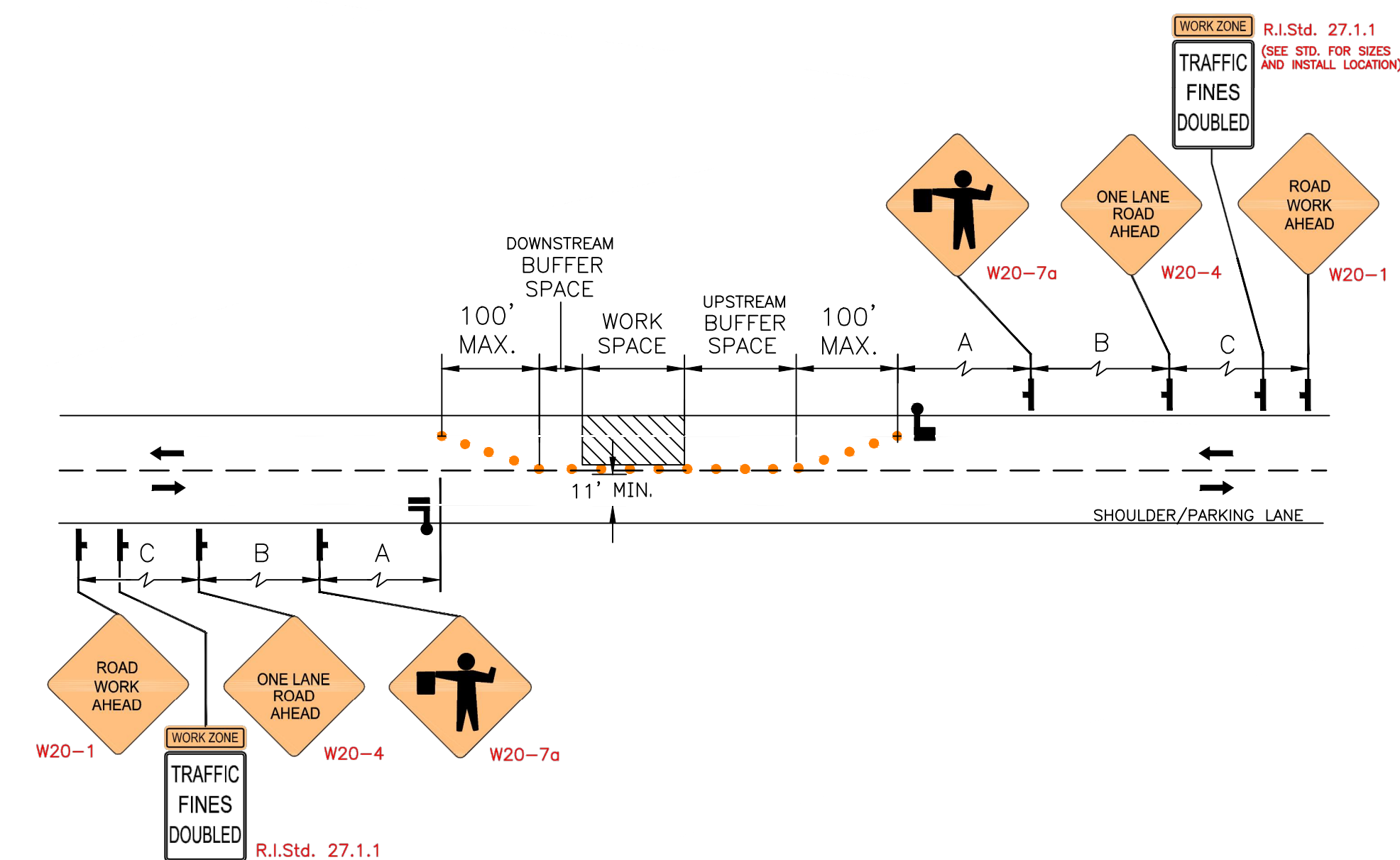
TYPICAL LANE SHIFT ON TWO-LANE ROADWAY

LEGEND

- ARROW BOARD
- ARROW BOARD SUPPORT OR TRAILER (SHOWN FACING DOWN)
- CHANGEABLE MESSAGE SIGN OR SUPPORT TRAILER
- CHANNELIZING DEVICE
- CRASH CUSHION
- DIRECTION OF TEMPORARY TRAFFIC DETOUR
- DIRECTION OF TRAFFIC
- FLAGGER
- HIGH-LEVEL WARNING DEVICE (FLAG TREE)
- LONGITUDINAL CHANNELIZING DEVICE
- LUMINARE
- PAVEMENT MARKINGS THAT SHOULD BE REMOVED FOR A LONG-TERM PROJECT



TYPICAL SIDEWALK DIVERSION



TYPICAL LANE CLOSURE ON TWO-LANE ROADWAY

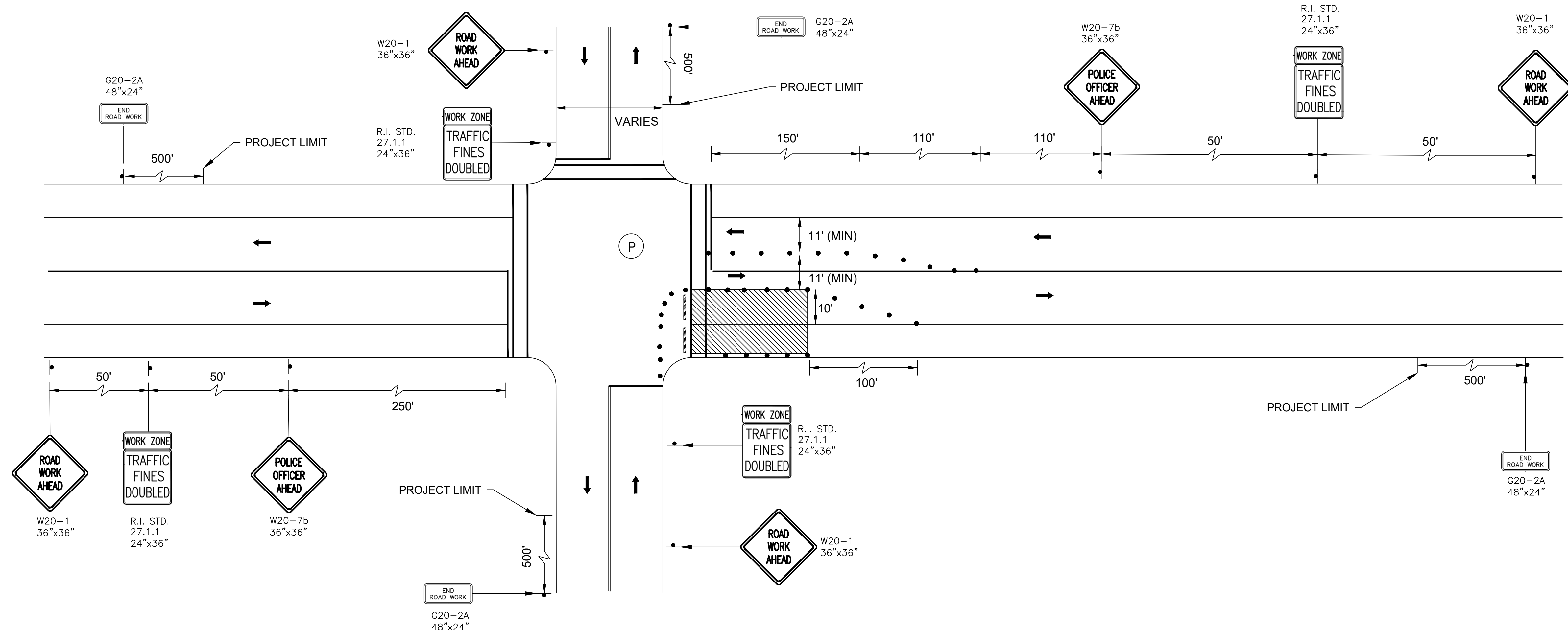


REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION PHASE 2 BROAD STREET IMPROVEMENTS PROVIDENCE, RHODE ISLAND MAINTENANCE AND PROTECTION OF TRAFFIC PLAN NO. 1
NO.	DATE	BY	

CHECKED BY _____ DATE _____ SCALE 1"=20'

NOTES:

1. ALL TEMPORARY TRAFFIC CONTROL SET-UPS AND DEVICES AND THEIR INSTALLATION, MAINTENANCE, AND REMOVAL SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) WITH ALL REVISIONS, AND THE LATEST EDITION OF THE "RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" WITH ALL REVISIONS.
2. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK.
3. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED. WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME, TEMPORARY TRAFFIC CONTROL DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
4. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
5. THE MAXIMUM ALLOWABLE LENGTH OF THE SHIFTED TANGENT SECTION FOR THE TEMPORARY TRAFFIC CONTROL SET-UP SHOWN IS 600 FEET.
6. MAXIMUM SPACING OF CHANNELIZATION DEVICES IN A TAPER IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH. MAXIMUM SPACING OF CHANNELIZATION DEVICES IN A TANGENT SECTION IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH. SHORTER SPACINGS BETWEEN TRAFFIC TRAVELING IN OPPOSITE DIRECTIONS WHERE ADDITIONAL EMPHASIS IS NEEDED TO CLEARLY DEFINE THE DESIRED TRAVEL PATHS.
7. MINIMUM LANE WIDTH IS TO BE 11' FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF CHANNELIZATION DEVICES.
8. THE SIZES OF ALL DIAMOND SHAPED ADVANCE WARNING SIGNS SHALL BE 36" X 36".
9. PEDESTRIANS SHALL BE CONSIDERED IN ALL MAINTENANCE AND PROTECTION OF TRAFFIC SETUPS. THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS ROUTES/RAMPS THROUGH CONSTRUCTION AREAS TO ENSURE THIS ACCESS. THE TEMPORARY PEDESTRIAN ACCESS SHALL BE DETECTABLE AND INCLUDE ACCESSIBILITY FEATURES COMPLIANT WITH THE ADA AND MUTCD, INCLUDING TEMPORARY CURB RAMPS. THE TEMPORARY BARRIER SHALL MEET ADA REQUIREMENTS THROUGH WORK ZONES. THE CONTRACTOR MUST PROVIDE FOR PEDESTRIANS TO SAFELY GUIDE THEM AWAY FROM BROKEN AND UNEVEN PAVEMENT, OPEN EXCAVATIONS, DROP-OFFS, CONSTRUCTION OPERATIONS, AND OTHER HAZARDS AT ALL TIMES. TEMPORARY CURB RAMPS SHALL BE PROVIDED FOR SIDEWALK DIVERSIONS, WHERE NECESSARY. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR THE PROVISION OF PEDESTRIAN WAYS, ALL COSTS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
10. FLASHING WARNING LIGHT AND/OR FLAGS MAY BE USED TO CALL ATTENTION TO THE ADVANCE WARNING SIGNS.
11. POLICE DETAIL TO BE USED FOR INTERSECTION TRAFFIC CONTROL.



TYPICAL LANE CLOSURE ON FAR SIDE OF INTERSECTION
TWO-LANE ROADWAY

LEGEND

	ARROW BOARD		SHADOW VEHICLE
	ARROW BOARD SUPPORT OR TRAILER (SHOWN FACING DOWN)		SIGN (SHOWN FACING LEFT)
	CHANGEABLE MESSAGE SIGN OR SUPPORT TRAILER		SURVEYOR
	CHANNELIZING DEVICE		TEMPORARY BARRIER
	CRASH CUSHION		TEMPORARY BARRIER WITH WARNING LIGHT
	DIRECTION OF TEMPORARY TRAFFIC		TRAFFIC OR PEDESTRIAN SIGNAL
	DETOUR DIRECTION OF TRAFFIC		TRUCK-MOUNTED ATTENUATOR
	FLAGGER		TYPE 3 BARRICADE
	HIGH-LEVEL WARNING DEVICE (FLAG TREE)		WARNING LIGHT
	LONGITUDINAL CHANNELIZING DEVICE		WORK SPACE
	LUMINARE		WORK VEHICLE
	PAVEMENT MARKINGS THAT SHOULD BE REMOVED FOR A LONG-TERM PROJECT		
	POLICE DETAIL		

REVISIONS			RHODE ISLAND	
NO.	DATE	BY	DEPARTMENT OF TRANSPORTATION	
			PHASE 2	
			BROAD STREET IMPROVEMENTS	
			PROVIDENCE, RHODE ISLAND	
			MAINTENANCE AND PROTECTION	
			OF TRAFFIC PLAN NO. 2	
			CHECKED BY _____	DATE _____
			SCALE 1"=20'	



INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	STANDARD PLAN SYMBOLS & STANDARD LEGEND
3	STANDARD NOTES - 1
4	STANDARD NOTES - 2
5	JOB SPECIFIC SYMBOLS, LEGEND & NOTES
6	TYPICAL SECTIONS
7	KEY PLAN
8-21	RESURFACING PLAN NOS. 1-14
22-23	DETAILS SHEET NOS. 1-2
24-25	MAINTENANCE AND PROTECTION OF TRAFFIC PLAN NOS. 1-2

CITY OF PROVIDENCE



DEPARTMENT OF PLANNING AND DEVELOPMENT DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED

BROAD STREET IMPROVEMENTS - RESURFACING

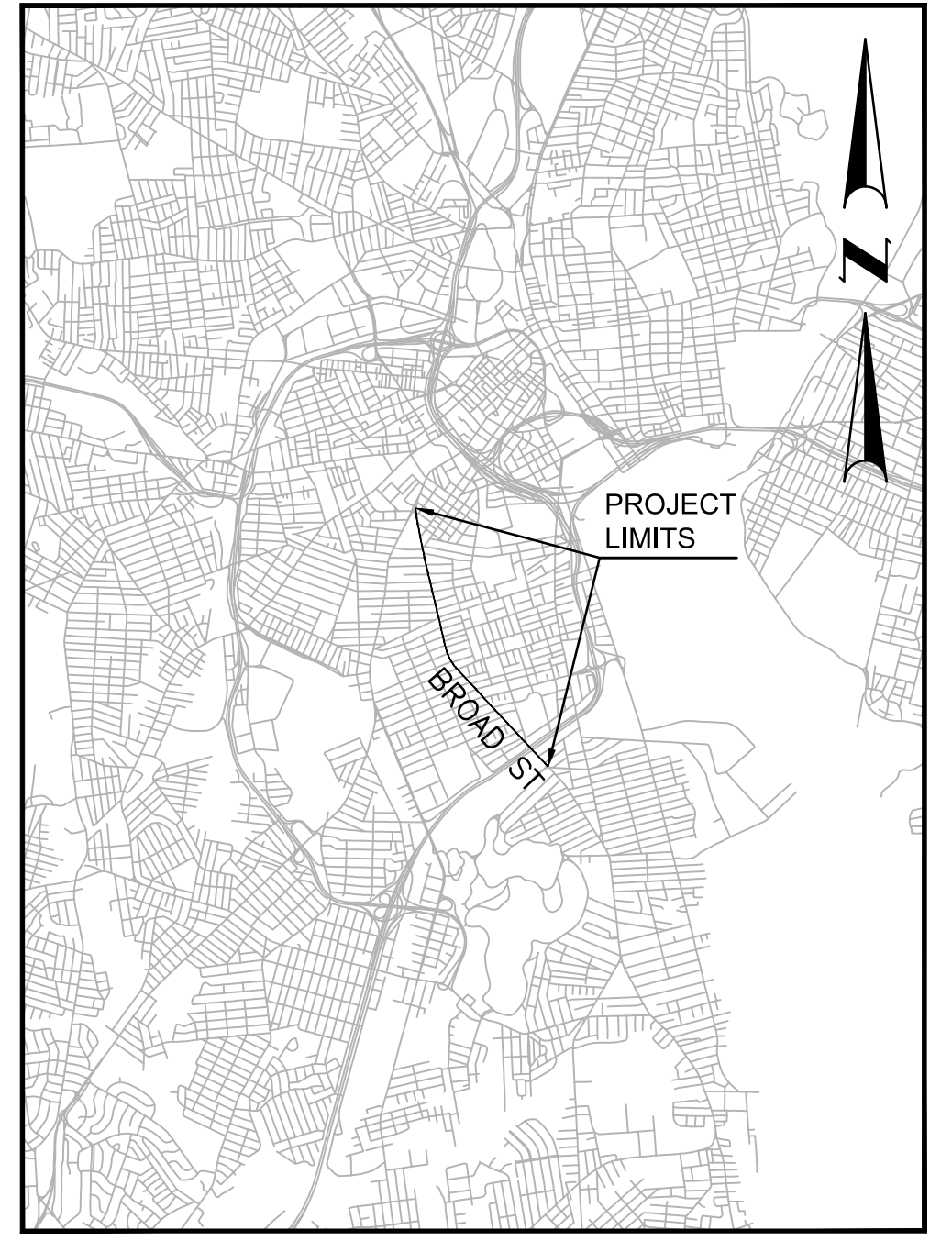
BROAD STREET (ELMWOOD AVENUE TO HAWTHORNE AVENUE)

CITY OF PROVIDENCE
COUNTY OF PROVIDENCE

PAVEMENT STRUCTURE

MILL 1.5" BITUMINOUS CONCRETE SURFACE COURSE
PLACE 1.5" CLASS 9.5 HMA

1.61 MILES



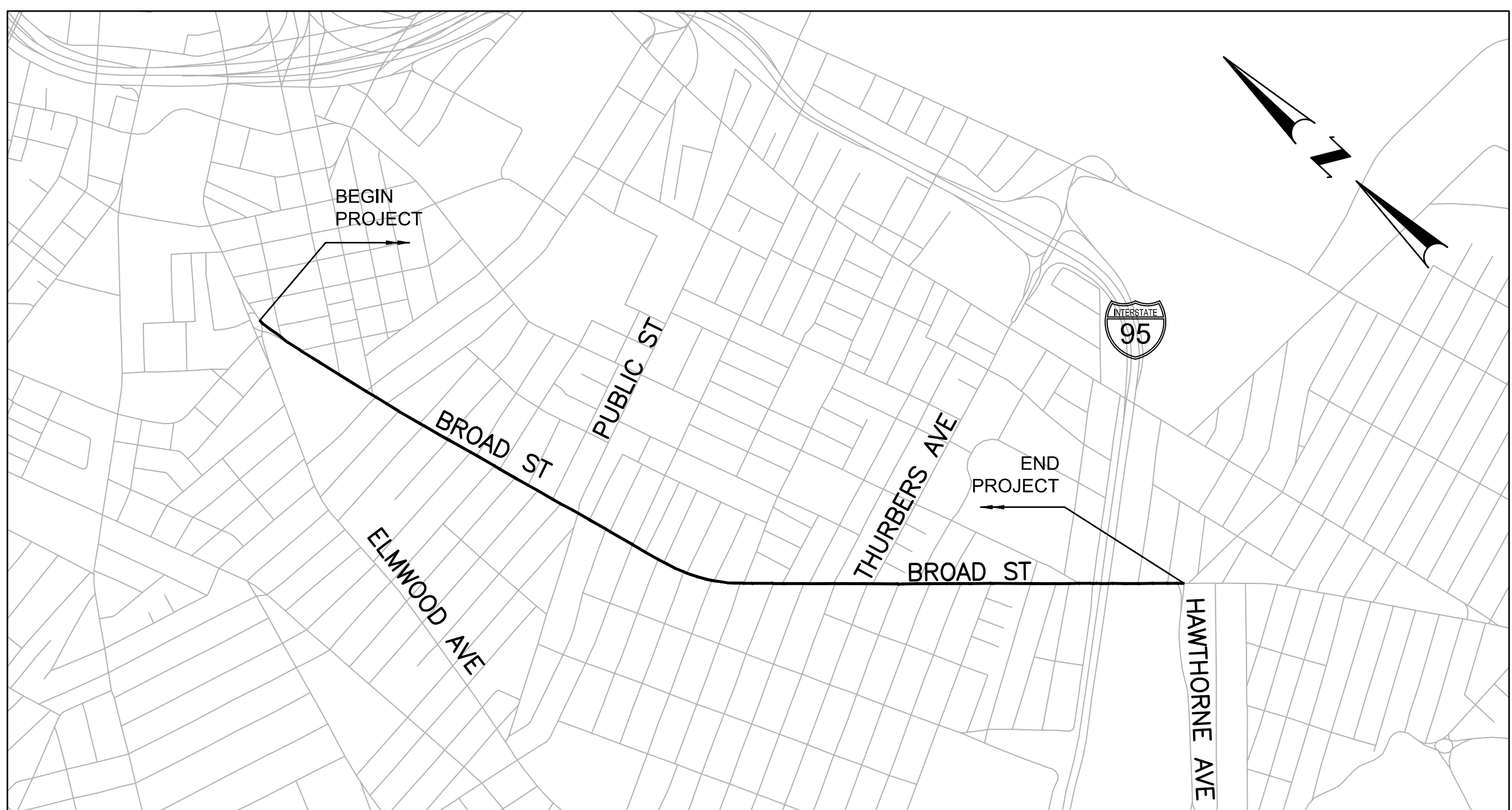
LOCATION MAP
SCALE: 1" = 70'

DESIGN DESIGNATION
BROAD STREET

2016 ADT	11,600 V.P.D.
D	58/42
K	6.9%
DDHV	475 V.P.H.
DHV	798 V.P.H.
SPEED LIMIT	25 M.P.H.

R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS
SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED 2018, WITH ALL REVISIONS, AND THE STATE AND FEDERAL SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS. STANDARD DETAILS FOR THIS PROJECT ARE CITY OF PROVIDENCE STANDARD DETAILS, 2017. REFER TO R.I. STANDARD DETAILS, 2019 EDITION, WITH ALL REVISIONS FOR ALL OTHER STANDARD DETAILS.

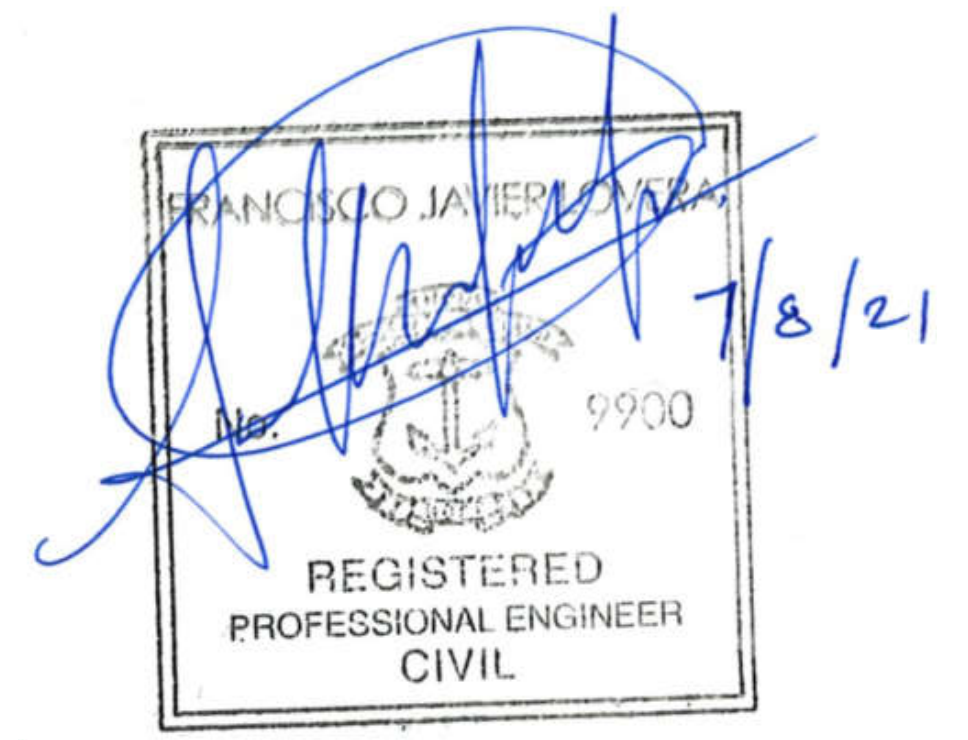
- PROJECT NOTES:**
- TOTAL AREA OF DEVELOPMENT = ±10 ACRES
 - TOTAL AREA OF SOIL DISTURBANCE = 0.1 ACRE
 - RECEIVING WATERS: NARRAGANSETT BAY COMMISSION COMBINED SEWER



LAYOUT PLAN
SCALE: 1" = 1000'

SCALE OF DRAWINGS
Plans 1 inch = 20 feet

BASE OF LEVELS
NAVD 88



Contract Number _____
Number of Sheet 1
Total Sheets 25

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
			2021	3	25

GENERAL NOTES:

- ANY DAMAGE TO EXISTING PAVEMENT, BRIDGES, CONDUIT, SIDEWALK, FENCES, ETC., CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.
- THE CONTRACTOR SHALL PLACE ALL EQUIPMENT AND MATERIAL AS FAR AWAY AS POSSIBLE FROM THE EDGE OF THE TRAVEL LANE SO AS NOT TO CAUSE A SAFETY HAZARD, IN ACCORDANCE WITH SECTION 106.06 OF THE R.I.D.O.T. STANDARD SPECIFICATION, LATEST EDITION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE EXISTING CONDITIONS ARE NOT OBLITERATED BEFORE CONTROL POINTS ARE LOCATED AND CONSTRUCTION LAYOUT IS ESTABLISHED. THE CONSTRUCTION LAYOUT SHALL BE PROVIDED IN SUFFICIENT DETAIL, THEREBY ENABLING HIM TO CONSTRUCT THE PROJECT IN CONFORMITY WITH THE PLANS AND SPECIFICATIONS. SURVEY WILL BE PROVIDED BY THE CONTRACTOR. THE RESIDENT ENGINEER WILL NOT AUTHORIZE CONSTRUCTION ACTIVITIES TO BEGIN UNTIL HE IS SATISFIED THAT ALL GROUND CONTROL HAS BEEN ESTABLISHED, TIED DOWN, AND DULY RECORDED IN STANDARD FIELD BOOKS.
- ALL R.I. STD. 9.9.0 CONSTRUCTION ACCESS ROADS SHALL BE CONSTRUCTED PRIOR TO ANY ROADWAY ACCEPTING CONSTRUCTION TRAFFIC.
- THE FREQUENCY AND APPLICATION RATES FOR THE DUST CONTROL ITEMS WILL BE AS DIRECTED BY THE ENGINEER.
- ALL SIDEWALK AND DRIVEWAYS DESIGNATED FOR REPLACEMENT SHALL BE CUT AND MATCHED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- ASPHALT EMULSION TACK COAT SHALL BE PLACED PRIOR TO PAVEMENT PLACEMENT ON THE CONCRETE BASE OR COLD PLANED PAVEMENT, AND ON ANY NEW COURSE WHICH HAS BEEN OPEN TO TRAFFIC, OR ANY NEW COURSE WHICH HAS BEEN EXPOSED FOR MORE THAN 3 DAYS, AND/OR AS DIRECTED BY THE ENGINEER. IT SHALL ALSO BE APPLIED TO VERTICAL PAVEMENT FACES BETWEEN ADJOINING PAVEMENT SECTIONS. ALL APPLICATIONS ON BOTH HORIZONTAL AND VERTICAL SURFACES SHALL BE PAID FOR UNDER THE CONTRACT UNIT BID PRICE FOR CODE 403.0300 "ASPHALT EMULSION TACK COAT."
- THE LIMITS OF CLEARING AND SURFACE DISTURBANCE MUST BE STRICTLY ADHERED TO IN ALL AREAS. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND PLACING, AT HIS OWN EXPENSE, PLANTABLE SOIL AND SEED IN AREAS WHICH ARE OUTSIDE OF THE PROJECT'S AREAS OF DISTURBANCE AND WHICH ARE IMPACTED BY CONSTRUCTION OPERATIONS INCLUDING THOSE AREAS WHERE VEHICLES, EQUIPMENT AND MATERIALS ARE STORED WITH THE PERMISSION OF THE ENGINEER.
- UNDER NO CIRCUMSTANCE WILL THE CONTRACTOR BE ALLOWED TO STOCKPILE REMOVED PAVEMENT MATERIALS WITHIN THE PROJECT LIMITS.
- CLEANING AND SWEEPING OF PAVEMENT WILL INCLUDE REMOVAL OF ALL PAVEMENT DEBRIS PRIOR TO THE PLACEMENT OF EACH BITUMINOUS PAVEMENT LIFT. ALL CLEANING AND SWEEPING SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER.
- PRIOR TO INSTALLATION, ALL SIGNS, MOUNTINGS AND LOCATIONS SHALL BE APPROVED OR MODIFIED BY THE ENGINEER.
- THE COORDINATE SYSTEM IS THE R.I. STANDARD GRID SYSTEM, NAD 83. THE VERTICAL CONTROL IS NGVD 29.
- PAVEMENT OPERATIONS FOR CURBED SECTIONS: IN AREAS WHERE CURBING IS SET TO FINISH LINE AND GRADE, THE CONTRACTOR WILL NOT BE REQUIRED TO UTILIZE THE SENSOR AND SKY-TYPE DEVICE FOR AUTOMATIC GRADE CONTROL, BUT WILL BE ALLOWED TO MANUALLY ADJUST THE BITUMINOUS PAVER FOR CONTROLLING GRADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ROADWAYS FREE OF DEBRIS RESULTING FROM THEIR CONSTRUCTION OPERATIONS. ALL DEBRIS SHALL BE REMOVED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE STATE.
- NO FUEL STORAGE, VEHICLE REFUELING, OR EQUIPMENT STORAGE SHALL TAKE PLACE IN DESIGNATED WETLANDS, NOR WITHIN 100' OF ANY WATER BODY. THIS REQUIREMENT SHALL NOT SUPERSEDE ANY FEDERAL, STATE OR LOCAL LAW, ORDINANCE, RULE OR REGULATION THAT APPLIES TO THE SAME, UNLESS THIS REQUIREMENT IS MORE STRINGENT THAN SAID LAW, ORDINANCE, RULE OR REGULATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT AT THE END OF FINAL PAVING OPERATIONS, FLOW TO EXISTING DRAINAGE STRUCTURES HAS BEEN REESTABLISHED AND THAT NO ISOLATED DEPRESSIONS REMAIN. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS PROVISION; IT SHALL BE CONSIDERED INCIDENTAL TO PAVING AND COLD PLANING OPERATIONS.
- ALL EMBANKMENTS SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 12" (AFTER COMPACTION) AND SHALL BE COMPACTED AS SPECIFIED BEFORE THE NEXT LAYER IS PLACED. ALSO, EMBANKMENT CONSTRUCTION SHALL CONFORM TO SECTION 202.03.2 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- IF THIS PROJECT IS ON A HURRICANE EVACUATION AND DIVERSIONARY ROUTE, AS DESIGNATED ON THE COVERSHEET, THE CONTRACTOR IS ADVISED THAT UPON 12 (TWELVE) HOURS NOTICE THE ROADWAY SHALL BE OPEN TO EVACUEES AND EMERGENCY PERSONNEL. ANY EXTRA WORK NECESSARY TO COMPLY WITH THIS REQUIREMENT WILL BE REIMBURSED UNDER FORCE ACCOUNT PROCEDURES.
- THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE PROVISIONS, CONDITIONS, AND STIPULATIONS STATED IN THE ENVIRONMENTAL APPROVALS ISSUED FOR THE PROJECT FROM THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (RIDEM), AND/OR THE ARMY CORPS OF ENGINEERS (ACOE), AND/OR THE COASTAL RESOURCES MANAGEMENT COUNCIL (CRMC). COPIES OF EACH OF THESE PERMITS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH THESE CONDITIONS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEM(S).
- FOR ALL PROJECTS INVOLVING KNOWN SITE REMEDIATION ISSUES, THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE CONSTRUCTION RELATED PROVISIONS, CONDITIONS, AND STIPULATIONS OF ANY REMEDIAL PLANS DEVELOPED FOR THE PROJECT. COPIES OF THESE DOCUMENTS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH COMPLIANCE WITH THESE DOCUMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEM(S).
- NO UNPROTECTED CONSTRUCTED FEATURE MAY PROJECT MORE THAN 4 INCHES ABOVE THE FINISHED GRADE OF A TRAVERSABLE SLOPE IN A CLEAR ZONE, e.g. HEADWALL, DRAINAGE INLET, ETC.
- THE REMAINING SECTION OR STUB OF A BREAKAWAY BASE MAY NOT PROJECT MORE THAN 4 INCHES ABOVE THE FINISHED GRADE OF A TRAVERSABLE SLOPE IN A CLEAR ZONE, e.g. SIGN POSTS, LIGHT POLES, FIRE HYDRANTS, ETC.

DRAINAGE AND EROSION CONTROL NOTES:

- FOR ALL PROJECTS WITH AT LEAST ONE(1) ACRE OF SOIL DISTURBANCE, R.I.D.O.T. IS REQUIRED TO DEVELOP AND ENFORCE A SITE SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ORDER TO REMAIN IN COMPLIANCE WITH THE RIPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE PROVISIONS, CONDITIONS, AND STIPULATIONS OF THE GENERAL PERMIT AND THE SITE SPECIFIC SWPPP FOR THIS PROJECT. COPIES OF THESE DOCUMENTS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH ADHERENCE TO THE SWPPP SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEM(S).
- NO UNDISTURBED AREAS SHALL BE CLEARED OF EXISTING VEGETATION AFTER OCTOBER 15 OF ANY CALENDAR YEAR OR DURING ANY PERIOD OF FALL OR LIMITED WINTER SHUTDOWN. ALL DISTURBED SOILS EXPOSED PRIOR TO OCTOBER 15 OF ANY CALENDAR YEAR SHALL BE SEEDED OR PROTECTED BY THAT DATE. ANY SUCH AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION, AS DETERMINED BY THE RESIDENT ENGINEER OR ENVIRONMENTAL INSPECTOR, BY NOVEMBER 15 OF ANY CALENDAR YEAR, MUST BE STABILIZED THROUGH THE USE OF EROSION CONTROL MATTING OR HAY MULCH, IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK. IF WORK CONTINUES WITHIN ANY OF THESE AREAS DURING THE PERIOD FROM OCTOBER 15 THROUGH APRIL 15, CARE MUST BE TAKEN TO ENSURE THAT ONLY THE AREA REQUIRED FOR THAT DAY'S WORK IS EXPOSED, AND ALL ERODIBLE SOIL MUST BE RESTABILIZED WITHIN 5 WORKING DAYS. ANY WORK TO CORRECT PROBLEMS RESULTING FROM FAILURE TO COMPLY WITH THIS PROVISION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THERE WILL BE NO SEPARATE PAYMENT FOR THIS PROVISION; IT SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OPERATIONS. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 2 WEEKS OF FINAL GRADING.
- STOCKPILES OF MATERIAL SHALL NOT BE LOCATED WITHIN REGULATED WETLANDS OR BUFFER ZONE AREAS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 30% AND STOCKPILES OF ERODIBLE MATERIAL SHALL ALSO BE SEEDED AND RINGED WITH R.I. STD. 9.1.0 TO STABILIZE.
- IF THE PLANS INCLUDE SPECIFIC AREAS FOR PLACEMENT OF CONSTRUCTION DEWATERING BASINS AND/OR EQUIPMENT AND MATERIALS STORAGE AND STOCKPILING, AND IF THE CONTRACTOR ELECTS TO UTILIZE ANY OTHER AREAS FOR THESE PURPOSES, THIS SHALL BE APPROVED BY THE ENGINEER ONLY AFTER OBTAINING ANY NECESSARY PERMITS AND/OR PERMIT MODIFICATIONS FROM THE APPROPRIATE REGULATORY AUTHORITY(IES). ANY PERMITTING REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE ACCOMPLISHED AT NO COST TO THE STATE. THE ENGINEER WILL COORDINATE SUBMISSION OF ANY REQUIRED PERMIT APPLICATION MATERIALS WITH THE R.I.D.O.T. OFFICE OF ENVIRONMENTAL PROGRAMS.
- JUTE MESH SHALL BE USED TO STABILIZE PLANTABLE SOIL AND/OR LOAM IN ALL DITCHES, ON ALL SLOPES ADJACENT TO WETLANDS AND WETLAND PERIMETERS, AND ON ALL SLOPES WITHIN WATER QUALITY BASINS. JUTE MESH IN DITCHES SHALL EXTEND TO AN ELEVATION 2 FEET ABOVE THE BOTTOM OF THE DITCH.
- SEEDING ON ALL SLOPES 3 TO 1 OR STEEPER SHALL CONSIST OF THE FOLLOWING APPLICATIONS UNLESS CHANGED IN THE CONTRACT.
 - SEEDING TYPE I.
 - ADHESIVE MULCH STABILIZER
- UNVEGETATED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR PERIODS IN EXCESS OF 2 WEEKS OR THROUGH THE INACTIVE WINTER SEASON.
- PRIOR TO DRAINAGE AND UTILITY CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION (HORIZONTAL AND VERTICAL) OF ALL EXISTING PIPES AND/OR STRUCTURES WHICH ARE TO BE CONNECTED. ANY VARIATION FOUND FROM THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO DRAINAGE AND UTILITY CONSTRUCTION. WORK CAN COMMENCE ONLY UPON THE ENGINEER'S AUTHORIZATION.
- ALL DRAINAGE AND UTILITY STRUCTURES WITHIN THE PAVED ROADWAY SHALL BE ADJUSTED TO GRADE WITH THE SURROUNDING PAVEMENT PRIOR TO THE WINTER SHUTDOWN.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL THROUGHOUT THE WORK AREA.
- CATCH BASIN RIM GRADES NOTED ON PLANS ARE DEPRESSED 0.1' LOWER THAN THE GUTTER GRADE. RIM ELEVATIONS SHOWN ARE FINAL GRADES. THE CONTRACTOR SHALL PLACE FRAMES AND GRATES 0.1' BELOW THE GRADE CONSTRUCTED IN THIS CONTRACT OR AS DIRECTED BY THE ENGINEER.
- PROVISIONS FOR CLEARING TO ACCESS OUTFALLS DURING THE CLEANING AND FLUSHING OF THE CLOSED DRAINAGE SYSTEM SHALL BE KEPT TO A MINIMUM.
 - ANY VEGETATIVE CLEARING SHALL BE LIMITED TO BRUSH AND TREES LESS THAN 3" DIAMETER.
 - NO HEAVY EQUIPMENT MAY ENCRACH UPON VEGETATED PERIMETER OR RIVERBANK WETLANDS AS WELL AS BIOLOGICAL WETLANDS.
- THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES FOR OUTLET PROTECTION PRIOR TO CLEANING AND FLUSHING STORM WATER DRAINAGE. EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ALL FLUSHED SEDIMENTS ARE REMOVED. AT ALL OUTFALL LOCATIONS WHERE PIPES ARE TO BE CLEANED AND FLUSHED, OUTLET PROTECTION (R.I. STD. 9.1.0 OR 9.3.0) SHALL BE INSTALLED TO TRAP SEDIMENTS. THESE SEDIMENTS SHALL THEN BE REMOVED AND DISPOSED OF LEGALLY BEFORE THE OUTLET PROTECTION DEVICES ARE REMOVED. IF OUTLET PROTECTION AT THE OUTFALL IS NOT FEASIBLE, THEN THE OUTLET PIPE OF THE LAST DRAINAGE STRUCTURE TO BE CLEANED SHALL BE PLUGGED TO CAPTURE ALL MATERIALS FLUSHED FROM PIPES. AFTER THE MATERIALS ARE REMOVED FROM THE DRAINAGE STRUCTURE, THE OUTLET SHALL BE UNPLUGGED TO RESUME NORMAL FUNCTIONING.
- R.I. STD. 9.8.0 BALED HAY INLET PROTECTION SHALL BE INSTALLED AT ALL CATCH BASINS AND INLETS WHENEVER SUBBASE IS EXPOSED, AND SHALL REMAIN IN PLACE UNTIL THE ABUTTING GROUND SURFACES ARE STABILIZED.
- WHERE BALED HAY INLET PROTECTION AND SILT FENCES ARE USED AT CATCH BASINS, THEY SHALL BE REMOVED AT THE END OF THE PROJECT OR AS DIRECTED BY THE ENGINEER IN ORDER TO PREVENT CLOGGING OF THE INLET.

DRAINAGE AND EROSION CONTROL NOTES (CONTINUED):

- DETENTION AND RETENTION BASINS MAY BE ROUGH GRADED AND STABILIZED WITH VEGETATION AND/OR OTHER EROSION CONTROL MEASURES AS REQUIRED BY THE ENGINEER PRIOR TO USE AS TEMPORARY SEDIMENTATION BASINS DURING PROJECT CONSTRUCTION. FINAL BASIN CONSTRUCTION SHALL NOT COMMENCE UNTIL ALL SOURCES OF SEDIMENT HAVE BEEN ELIMINATED, FINAL ROADSIDE VEGETATION IS ESTABLISHED AND USE OF TEMPORARY BASINS IS NO LONGER REQUIRED AS DIRECTED BY THE ENGINEER. ANY ISSUES RELATING TO EROSION AND/OR SEDIMENT TRANSPORT INTO WETLAND AREAS RESULTING FROM SUCH USE OF SEDIMENTATION BASINS DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY CORRECTIVE ACTION REQUIRED TO RESOLVE SUCH ISSUES SHALL BE COMPLETED BY THE CONTRACTOR.
- THE TOE OF ANY FILL SLOPE IS TO REMAIN AT LEAST 1' INSIDE OF ALL EROSION CONTROLS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR COVER ANY PORTION OF THE EROSION CONTROL MEASURES WITH MATERIAL. ANY MATERIAL THAT IS PLACED ON ANY EROSION CONTROLS BY THE CONTRACTOR, OR ANY AGENT OF THE CONTRACTOR, SHALL BE IMMEDIATELY REMOVED BY THE CONTRACTOR, AND ANY NECESSARY REPAIRS TO THE EROSION CONTROLS ACCOMPLISHED.
- PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES, EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AT THOSE AREAS INDICATED ON THE PLANS. CLEARING MAY OCCUR PRIOR TO INSTALLATION OF SUCH CONTROLS, HOWEVER NO GRUBBING, GRADING, FILLING, OR OTHER SOIL DISTURBANCE SHALL OCCUR PRIOR TO INSTALLATION. THE LIMITS OF CLEARING AND SURFACE DISTURBANCE MUST BE STRICTLY ADHERED TO IN ALL AREAS.
- ALL HAY BALES, SILT FENCE OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS IS ESTABLISHED. IF NEEDED, TEMPORARY SEEDING CAN HELP TO MINIMIZE EROSION. TEMPORARY SEED WILL CONFORM TO R.I.D.O.T. STANDARD TEMPORARY SEED MIX.
- THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE STATE.
- THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE SPECIFIED IN SUBSECTION L.02.03 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- ADDITIONAL EROSION CONTROLS, SHALL BE INSTALLED AS DIRECTED BY THE RESIDENT ENGINEER. THESE ADDITIONAL ITEMS WILL BE PAID AT THE UNIT PRICE FOR THAT BID ITEM.

UTILITY NOTES:

- EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. BUILDING SERVICE CONNECTIONS (ELECTRIC, GAS, TELEPHONE, WATER AND SANITARY) ARE NOT SHOWN. CONTRACTOR IS TO ASSUME SERVICES ARE PRESENT TO ALL BUILDINGS.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES BOTH UNDERGROUND AND OVERHEAD BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH CHAPTER 39-1.2 OF THE R.I. GENERAL LAWS ENTITLED "EXCAVATION NEAR UNDERGROUND UTILITY FACILITIES", WITH AMENDMENTS EFFECTIVE AS OF NOVEMBER 1, 2009 AND, WHEN NECESSARY, BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY APPLICABLE CITY, TOWN, STATE OR FEDERAL AGENCY. THE CONTRACTOR SHOULD UNDERSTAND THAT NOT ALL UTILITIES SUBSCRIBE TO THE DIG SAFE PROGRAM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES AND ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO COMMENCING THEIR WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY, SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE STATE.
- ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE CAPPED.
- EXISTING WATER SERVICES SHALL BE RECONNECTED TO THE NEW WATER MAINS.
- UTILITY SERVICE CONNECTIONS SHALL BE MAINTAINED TO ALL EXISTING FACILITIES TO REMAIN.
- FIRE HYDRANTS SHALL NOT BE REMOVED FROM SERVICE WITHOUT WRITTEN AUTHORIZATION FROM THE FIRE DEPARTMENT OR THE WATER AUTHORITY.
- ALL NEW WATER LINES SHALL BE DISINFECTED TO THE SATISFACTION OF THE WATER AUTHORITY IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL UTILITY POLE RELATED WORK SHALL BE BY OTHERS.

THIS PLAN SHALL NOT BE ALTERED

REVISIONS			CITY OF PROVIDENCE DEPARTMENT OF PLANNING & DEVELOPMENT DEPARTMENT OF PUBLIC WORKS PHASE 2 BROAD STREET IMPROVEMENTS - RESURFACING PROVIDENCE, RHODE ISLAND STANDARD NOTES - 1
NO.	DATE	BY	

CHECKED BY _____ DATE _____ SCALE NO SCALE



FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
			2021	4	25

LANDSCAPE NOTES:

- ALL PLANT MATERIAL MUST BE TAGGED AT THE NURSERY (A RECOGNIZED GROWER OF PLANT MATERIAL) IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION. ALL PLANT MATERIAL MUST BE NURSERY GROWN; NO PLANTATION GROWN PLANT MATERIAL WILL BE ACCEPTED.
- ALL PLANT SUBSTITUTIONS AND/OR CHANGES IN PLANT LOCATION MUST BE APPROVED IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- ALL PLANT MATERIAL IS TO BE FIELD LOCATED BY A REPRESENTATIVE FROM THE R.I.D.O.T. LANDSCAPE ARCHITECTURE UNIT.
- A R.I.D.O.T. LANDSCAPE REPRESENTATIVE MUST BE ON SITE TO APPROVE ALL TRIMMING AND CLEARING NECESSARY TO COMPLETE THE WORK AS SHOWN ON THE PLANS.
- ANY TOPSOIL USED AS PLANTABLE SOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS, AND SHALL CONFORM TO SECTION M.18 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- ALL TREES AND SHRUBS SHALL BE MULCHED WITH PINE BARK MULCH IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- ALL TREES AND/OR SHRUBS THAT ARE PLANTED AS A BED SHALL BE MULCHED AS A BED.
- PROVIDE A MINIMUM 6"-8" BRANCHING STANDARD ON ALL TREES INSTALLED ADJACENT TO SIDEWALKS AND/OR PEDESTRIAN ACCESS AREAS.

**STRUCTURAL NOTES FOR HIGHWAY SIGNS,
LUMINAIRES AND TRAFFIC SIGNALS:**

GENERAL

- ALL SUPPORT DESIGNS AND ASSOCIATED SHOP DRAWING REVIEWS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION, OF THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (THE "SPECIFICATIONS"), INCLUDING THE LATEST INTERIM SPECIFICATIONS, EXCEPT AS MODIFIED HEREIN.

CONSTRUCTION DRAWINGS AND DETAILS

- THE FOLLOWING NOTES SHALL BE INCLUDED ON ALL PLANS AND/OR SHOP DRAWINGS IN REFERENCE TO ANCHOR BOLTS:
 - "PRETENSIONING OF ALL ANCHOR NUTS IS REQUIRED, AND SHALL BE ACCOMPLISHED BY TIGHTENING TO 1/6TH TURN BEYOND THE SNUG-TIGHT POSITION."
 - "THE MAXIMUM CLEARANCE BETWEEN THE BOTTOM OF THE LEVELING NUTS AND THE TOP OF THE CONCRETE IS CRITICAL AND SHALL NOT EXCEED THE AMOUNT SPECIFIED ON THIS DRAWING."
- THE USE OF GROUT UNDER BASE PLATES SHALL GENERALLY NOT BE PERMITTED. IF SPECIFIC CONDITIONS WARRANT ITS USE, THE GROUT SHALL NOT BE CONSIDERED LOAD CARRYING; LOADS SHALL BE DIRECTLY SUPPORTED BY THE ANCHOR BOLTS. ADEQUATE DRAINAGE SHALL BE PROVIDED.
- THE DAMPENING EFFECTS OF VIBRATION MITIGATION DEVICES SHALL NOT BE CONSIDERED IN THE DESIGN OF STRUCTURAL SUPPORTS FOR SIGNS AND TRAFFIC SIGNALS. IF THE CONTRACTOR CHOOSES TO USE THESE DEVICES FOR WARRANTY PURPOSES, THE TYPE OF DEVICES PROPOSED SHALL BE APPROVED BY THE DEPARTMENT PRIOR TO FABRICATION OF SUPPORTS.

TRAFFIC SIGNAL NOTES:

- ALL SALVAGED TRAFFIC SIGNAL EQUIPMENT SHALL BE DELIVERED TO THE R.I.D.O.T. MAINTENANCE HEADQUARTERS, 360 LINCOLN AVENUE, WARWICK, RHODE ISLAND, 02888.
- BACK PLATES SHALL BE INSTALLED ON ALL TRAFFIC SIGNAL HEADS.
- THE CONTRACTOR SHALL SUPPLY AND INSTALL ON THE UPPER LEFT HAND CORNER OF THE BACK OF THE CONTROLLER CABINET DOOR A LAMINATED INTERSECTION GRAPHIC AND TABLE DEPICTING THE TRAFFIC DETECTOR RELAY CHANNEL ASSIGNMENTS. THE DIAGRAM SHALL BE A GRAPHIC OF THE INDIVIDUAL INTERSECTION ORIENTED SIMILAR TO THE PLANS SHOWING THE LOCATIONS OF EACH OF THE LOOP DETECTORS. THE DIAGRAM SHALL, AT A MINIMUM, INCLUDE DETECTOR NUMBERS, STREET NAME LABELS, NORTH ARROW, AND CONTROLLER CABINET LOCATION. THE ASSIGNMENT INFORMATION SHALL BE INCLUDED IN A TABLE WHICH SHALL INCLUDE, AT A MINIMUM, THE APPROACH NAME, DETECTOR NUMBER, TERMINAL NUMBER, DETECTOR RACK SLOT NUMBER, RELAY NUMBER, RELAY CHANNEL NUMBER, AND PHASE ASSOCIATED WITH EACH DETECTOR.
- TRAFFIC CONTROLLER CABINETS, UNLESS OTHERWISE NOTED, SHALL BE NEMA TS2 TYPE 1 CABINET SIZE 6 ("P" TYPE) WITH NOMINAL DIMENSIONS OF 52"x44"x24"D.
- ALL DELAY AND EXTENSION TIMES, AS CALLED FOR ON THE PLANS, FOR PROPOSED LOOP DETECTORS SHALL BE PROGRAMMED IN THE TRAFFIC SIGNAL CONTROLLER AND NOT THE DETECTOR RELAY.
- A BARE GROUND WIRE SHALL BE PLACED IN ALL PVC CONDUITS AND SHALL BE BONDED TO GROUND RODS IN ACCORDANCE WITH SECTION T.03 OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- THE FINAL POSITION OF SIGNAL HEADS, PEDESTRIAN PUSHBUTTONS, DETECTORS, AND STOP LINE AND CROSSWALK PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD ACCORDING TO ACTUAL INTERSECTION CHARACTERISTICS.
- A 2' MINIMUM BUFFER SHALL BE PROVIDED BETWEEN THE CURB AND ALL LATERAL OBSTRUCTIONS (INCLUDING ALL SIGNAL POLES AND TRAFFIC/PEDESTRIAN SIGNAL HEADS) TO PROVIDE ADEQUATE CLEARANCE FOR TURNING VEHICLES.
- ALL FOUNDATIONS MUST HAVE CONES OR BARRELS BOLTED TO FOUNDATION BASES UNTIL ACTUAL POLE IS INSTALLED.
- WHEN PLACING TRAFFIC SIGNAL HANDHOLES OR CONDUIT IN EXISTING PORTLAND CEMENT CONCRETE SIDEWALKS, THE ENTIRE SIDEWALK SQUARE OF CONCRETE SHALL BE REPLACED IN ACCORDANCE WITH R.I. STD. 43.1.0. NO PATCHES WILL BE ALLOWED.
- ALL PEDESTRIAN PUSHBUTTONS SHALL BE COMPLIANT WITH "THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES" (ADAAG) AND SHALL INCLUDE A PRESSURE-ACTIVATED (NON-MOVING) BUTTON. SIGNS APPLICABLE TO PUSHBUTTON ACTUATION SHALL BE INSTALLED SUCH THAT THE CROSSING ASSIGNED TO EACH BUTTON IS CLEARLY INDICATED. IF SITE CONDITIONS DO NOT ALLOW PEDESTRIAN PUSHBUTTONS TO BE INSTALLED WHERE CALLED FOR ON THE PLANS, THE R.I.D.O.T. TRAFFIC ENGINEERING UNIT SHALL BE CONSULTED WITH THROUGH AN R.F.I. PRIOR TO INSTALLING THE PUSHBUTTONS. THE FINAL PLACEMENT OF ALL PEDESTRIAN PUSHBUTTONS SHALL BE IN ACCORDANCE WITH ADAAG AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- ALL LOOP DETECTORS SHALL BE CENTERED WITHIN EACH LANE AS DELINEATED, UNLESS OTHERWISE DIMENSIONED ON PLANS.
- ALL LOOP DETECTORS SHALL BE CUT INTO THE FINAL PAVEMENT SURFACE COURSE.
- TRAFFIC SIGNAL CONTROLLERS SHALL BE WIRED SO THAT ANY FIRE PRE-EMPTION SHALL OVERRIDE MANUAL (PUSH BUTTON) OPERATION.
- THE CONTRACTOR SHALL WORK CONTINUOUSLY TO RESTORE TRAFFIC SIGNAL OPERATION TO ITS INTENDED PURPOSE WHEN REPLACING THE TRAFFIC SIGNAL EQUIPMENT. A POLICE DETAIL IS REQUIRED TO DIRECT TRAFFIC AT THE INTERSECTION AT ALL TIMES WHEN THE TRAFFIC SIGNAL IS INOPERATIVE. AT NO TIME SHALL THE CONTRACTOR LEAVE THE SITE BEFORE RESTORING FULL TRAFFIC OPERATIONS.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

- ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS, CHANNELIZING DEVICES, ETC., SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- ALL SIGN MOUNTINGS FOR TEMPORARY AND CONSTRUCTION SIGNS SHALL BE IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- THE CONTRACTOR SHALL COVER ALL EXISTING AND/OR TEMPORARY SIGNS THAT ARE NOT RELEVANT TO THE TRAFFIC CONTROL REQUIRED DURING ANY PARTICULAR STAGE OF THE CONTRACT.
- ADVANCE FLAGPERSON SIGNS (W20-7A) SHALL BE USED IN ADVANCE OF ANY POINT AT WHICH A FLAGPERSON OR A POLICE OFFICER HAS BEEN STATIONED TO CONTROL TRAFFIC. WHEN NEEDED, AN APPROPRIATE DISTANCE MESSAGE MAY BE DISPLAYED ON A SUPPLEMENTAL PLATE (24"x18") BELOW THE FLAGPERSON SYMBOL SIGN. THE SIGN SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE FLAGPERSON IS NOT AT THE STATION.
- POLICE OFFICERS (AND NOT FLAGPERSONS) SHALL BE UTILIZED WHEN WORK WILL IMPACT SIGNALIZED INTERSECTIONS AND LIMITED ACCESS HIGHWAYS.
- POLYETHYLENE DRUMS SHALL BE UTILIZED AS A CHANNELIZING DEVICE WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN BEYOND WORKING HOURS WHEN NO WORKERS ARE PRESENT. CONES SHALL BE UTILIZED WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN ONLY DURING WORKING HOURS AND IS SUBSEQUENTLY BROKEN DOWN AT THE END OF THE WORKDAY.
- ARROW PANELS SHALL BE SET IN THE FLASHING FOUR CORNERS CAUTION MODE UNLESS UTILIZED FOR A MERGING TAPER. ARROW PANELS SET IN THE FLASHING ARROW MODE SHALL NOT BE UTILIZED FOR LANE SHIFTS.
- TEMPORARY CONSTRUCTION SIGNS AND OTHER WORKZONE TRAFFIC CONTROL DEVICES THAT ARE DAMAGED OR REQUIRE RELOCATION SHALL BE REPLACED AND / OR RELOCATED UNDER THE PAY ITEM FOR "MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION."
- THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS SHALL NOT BE PARKED ON THE TRAVEL LANES OR SHOULDERS. THEY MAY BE PARKED WITHIN THE STATE RIGHT-OF-WAY ONLY IN AREAS 30' BEYOND THE OUTSIDE EDGE OF THE TRAVEL LANES AND/OR IN AREAS APPROVED BY THE ENGINEER.
- TEMPORARY CONSTRUCTION SIGNS AND OTHER TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC, AND SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER APPROPRIATE.
- THE INTENDED VEHICLE PATHS THROUGH EACH WORK ZONE SHALL BE CLEARLY MARKED AT ALL TIMES. WATERBORNE PAVEMENT MARKINGS SHALL BE INSTALLED BEFORE THE END OF THE WORK SHIFT ON ALL COLD-PLANNED AND NEW ROADWAY SURFACES THAT WILL BE OPENED TO TRAFFIC AT THE END OF THE SHIFT.

THIS PLAN SHALL NOT BE ALTERED

REVISIONS			CITY OF PROVIDENCE DEPARTMENT OF PLANNING & DEVELOPMENT DEPARTMENT OF PUBLIC WORKS
NO.	DATE	BY	
			PHASE 2 BROAD STREET IMPROVEMENTS - RESURFACING PROVIDENCE, RHODE ISLAND
			STANDARD NOTES - 2
			CHECKED BY _____ DATE _____ SCALE NO SCALE



JOB SPECIFIC LEGEND:

- (4.5.0M) BRICK DROP INLET, R.I. STD. 4.5.0 MODIFIED – SEE DETAILS SHEET NO. 2
- (6.3.6P) PROVIDENCE STANDARD RECTANGULAR FRAME AND GRATE, R.I. STD. 6.3.6 MODIFIED – SEE DETAILS SHEET NO. 2
- (7.3.3P)^{X'} PROVIDENCE STANDARD GRANITE TRANSITION CURB, R.I. STD. 7.3.3 MODIFIED (7")
- (7.3.3PC)^{X'} PROVIDENCE STANDARD GRANITE TRANSITION CURB, R.I. STD. 7.3.3 MODIFIED – CIRCULAR (7")
- (7.3.5P) PROVIDENCE STANDARD GRANITE INLET STONE, R.I. STD. 7.3.5 MODIFIED (7")
- (7.3.9P) PROVIDENCE STANDARD GRANITE RAMP STONE, R.I. STD. 7.3.9 MODIFIED (7")
- (7.3.9PC) PROVIDENCE STANDARD GRANITE RAMP STONE, R.I. STD. 7.3.9 MODIFIED – CIRCULAR (7")
- (18.2.1) PRECAST TYPE "H" HEAVY DUTY HANDHOLE
- (47.1.1) TRANSVERSE PAVEMENT CUT AND MATCH, R.I. STD. 47.1.1
- (ABAN) ABANDON EXISTING SIGNAL HANDHOLE
- (APB) ADJUST PEDESTRIAN PUSHBUTTON VERTICALLY ON POLE
- (APP) ADJUST PEDESTAL POLE TO GRADE
- (BLPM) URBAN TRAIL LANE PAVEMENT MARKINGS – SEE DETAILS SHEET NO. 1
- (BPP) BRACKETS FOR PEDESTRIAN PUSHBUTTONS
- (CW) CROSSWALK DETAIL – 24" EPOXY RESIN PAVEMENT MARKINGS WITH 24" SPACES – WHITE – SEE DETAILS SHEET NO. 1
- (DBC) REMOVE AND DISPOSE BRICK CROSSWALK
- (DTR) REMOVE & DISPOSE TRASH RECEPTACLE
- (GCC) GRANITE CURB PROVIDENCE STANDARD 7" CIRCULAR – SEE DETAILS SHEET NO. 1
- (GCS) GRANITE CURB PROVIDENCE STANDARD 7" STRAIGHT – SEE DETAILS SHEET NO. 1
- (LBSW) LOWER BACK OF SIDEWALK UP TO 2" TO OBTAIN AN ADA-COMPLIANT RAMP AND LANDING AREA
- (MM)^{1.5"} REMOVING BITUMINOUS PAVEMENT BY MICRO MILLING
- (MUL) PINE BARK MULCH FOR TREE PIT (3" DEPTH)
- (P1) 1.5" CLASS 9.5 HMA
- (P2) 3" CLASS 9.5 HMA
- (RPB) REMOVE & RELOCATE PEDESTRIAN PUSHBUTTON ON POLE
- (RRB) REMOVE & RELOCATE BENCH
- (RRBH) REMOVE, STOCKPILE, AND RESET OR RELOCATE BIKE HITCH
- (RRCR) REMOVE & RELOCATE CURB RETURN
- (RRP) REMOVE & RELOCATE PLANTER
- (RRPP) REMOVE & RELOCATE PEDESTAL POLE
- (RRSE) RAISE RAMP STONE ELEVATION UP TO 2" TO OBTAIN AN ADA-COMPLIANT RAMP AND LANDING AREA
- (RS) REMOVE & RESET SIGN
- (SCR1)^{X'} SPECIAL CURB RAMP 1 – SEE DETAILS SHEET NO. 1
- (SCR5)^{X'} SPECIAL CURB RAMP 5 – SEE DETAILS SHEET NO. 1
- (SCR6)^{X'} SPECIAL CURB RAMP 6 – SEE DETAILS SHEET NO. 2
- (SUPM) URBAN TRAIL MARKINGS – SEE DETAILS SHEET NO. 1

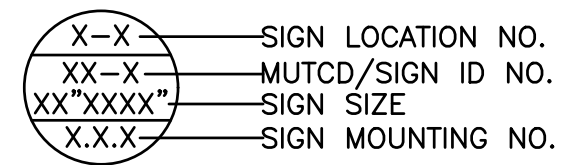
GENERAL NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, REGULATIONS AND SAFETY CODES IN THE CONSTRUCTION OF ALL IMPROVEMENTS. SIGN AND STRIPING WORK SHALL ALSO MEET ALL APPLICABLE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). BASE MAPPING WAS PREPARED FROM GIS DATA PROVIDED BY THE CITY OF PROVIDENCE AND UPDATED BASED ON FIELD OBSERVATIONS. TOPOGRAPHIC SURVEY, DATED FEBRUARY 2, 2018, WAS PROVIDED ON BROAD STREET BETWEEN ELMWOOD AVENUE AND SARATOGA STREET. ADDITIONAL TOPOGRAPHIC SURVEY WAS OBTAINED IN DECEMBER 2019 AT SPOT LOCATIONS ON BROAD STREET, BETWEEN SARATOGA STREET AND HAWTHORNE AVENUE.
2. THE CONTRACTOR SHALL VERIFY BASE MAPPING IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO START OF WORK. WHEN THESE PLANS ARE IN CONFLICT WITH ACTUAL SITE CONDITIONS, PROPOSED LIMITS OF WORK MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, GRADING, SIDEWALKS, AND FEATURES OUTSIDE OF THE LIMITS OF WORK AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AS DIRECTED BY THE ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE ANY SUCH OR OTHER DAMAGE SO CAUSED AT NO ADDITIONAL COST.
4. ALL EXISTING CURB RAMP LOCATIONS SHOWN ARE APPROXIMATE.
5. NO MATERIALS SHALL BE STOCKPILED WITHIN THE RIGHT OF WAY. ALL STOCKPILES (INCLUDING PORTABLE RESTROOMS) SHALL BE OFF OF THE STREET BY THE END OF THE DAY.
6. THE LIMITS OF SIDEWALK REPLACEMENT SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL SAWCUT THE SIDEWALK AT THE NEAREST CONTROL OR EXPANSION JOINT.
7. IN AREAS WHERE EXISTING GRANITE APRON AND/OR INLET STONES ARE TO REMAIN, THE MINIMUM GUTTER OPENING PER THE CITY OF PROVIDENCE STANDARD DETAILS MUST BE OBTAINED AND MAINTAINED. THERE WILL BE NO SEPARATE PAY ITEM FOR THIS WORK, IT SHALL BE CONSIDERED INCIDENTAL TO PAVING OPERATIONS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT, AT THE END OF FINAL PAVING OPERATIONS, FLOW TO EXISTING DRAINAGE STRUCTURES HAS BEEN REESTABLISHED AND THAT NO ISOLATED DEPRESSIONS REMAIN. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS PROVISION, IT SHALL BE CONSIDERED INCIDENTAL TO PAVING OPERATIONS.

GENERAL NOTES - SIGNS:

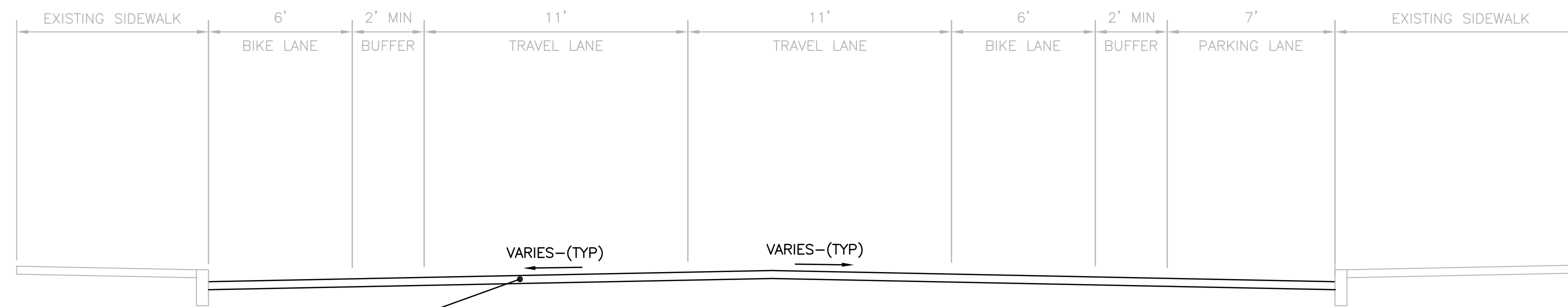
1. SIGN MOUNTINGS SHALL BE R.I. STD. 24.1.0 UNLESS OTHERWISE NOTED.
2. ALL SIGNS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 7' OVER THE SIDEWALK.
3. ALL SIGN RADII AND BORDERS SHALL BE AS SPECIFIED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS AMENDED.

JOB SPECIFIC PROPOSED SIGN:

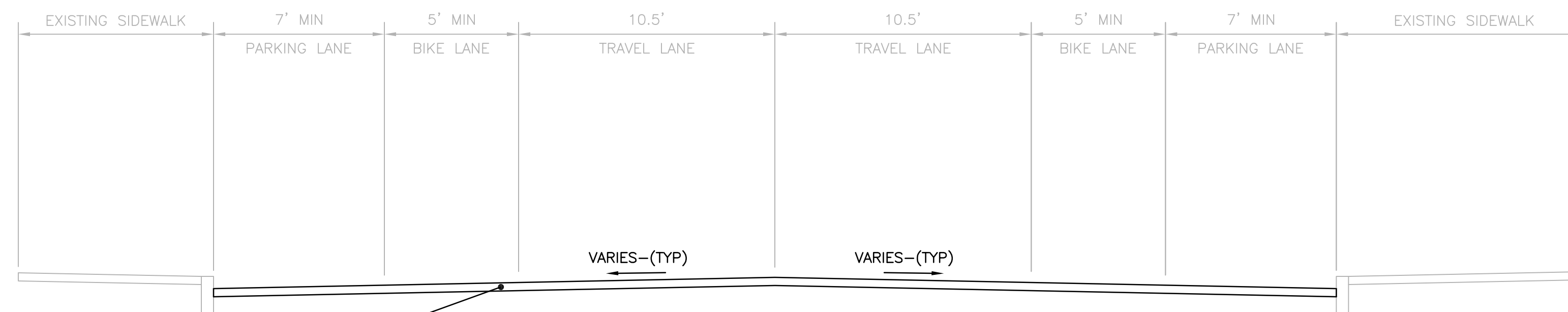


REVISIONS			CITY OF PROVIDENCE DEPARTMENT OF PLANNING & DEVELOPMENT DEPARTMENT OF PUBLIC WORKS
NO.	DATE	BY	
			PHASE 2 BROAD STREET IMPROVEMENTS - RESURFACING PROVIDENCE, RHODE ISLAND
			JOB SPECIFIC SYMBOLS, LEGEND & NOTES
			CHECKED BY _____ DATE _____ SCALE 1"=20'

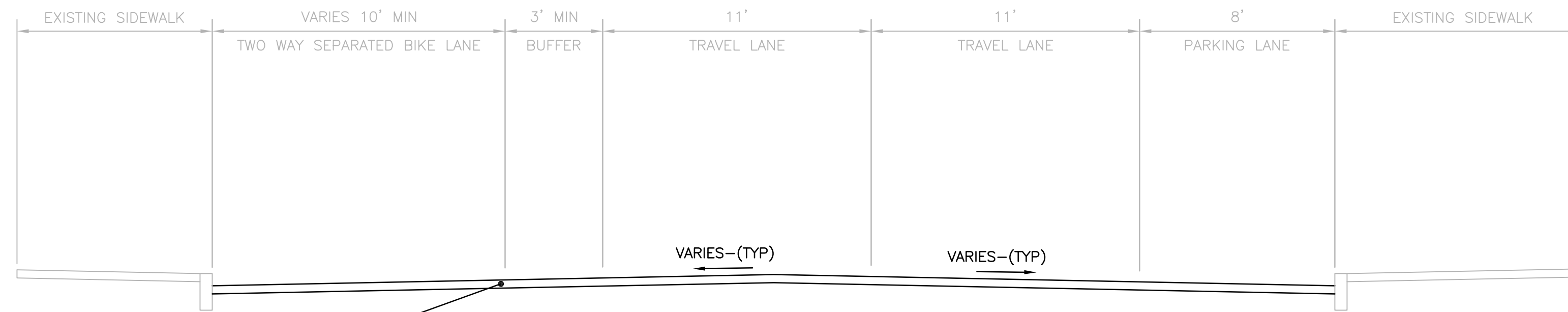




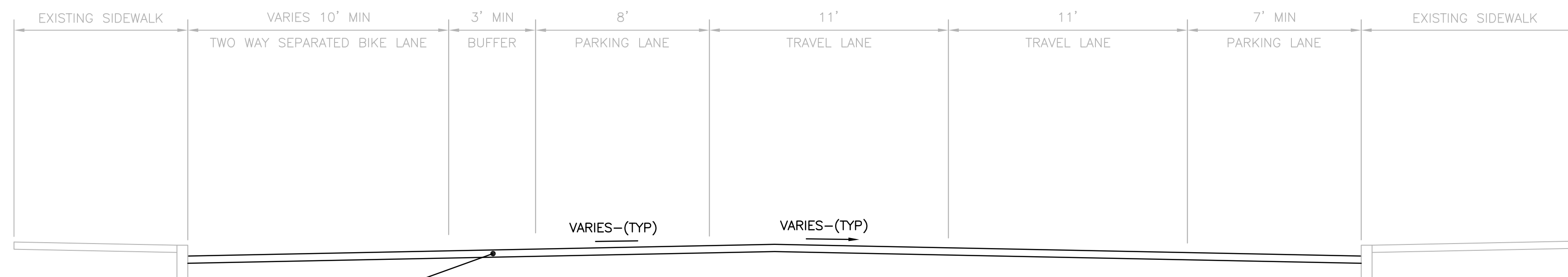
BROAD STREET
ELMWOOD AVENUE TO FRIENDSHIP STREET
 NOT TO SCALE



BROAD STREET
FRIENDSHIP STREET TO PLENTY STREET
 NOT TO SCALE



BROAD STREET
PLENTY STREET TO PRINCETON AVENUE
 NOT TO SCALE



BROAD STREET
PRINCETON AVENUE TO HAWTHORNE AVENUE
 NOT TO SCALE

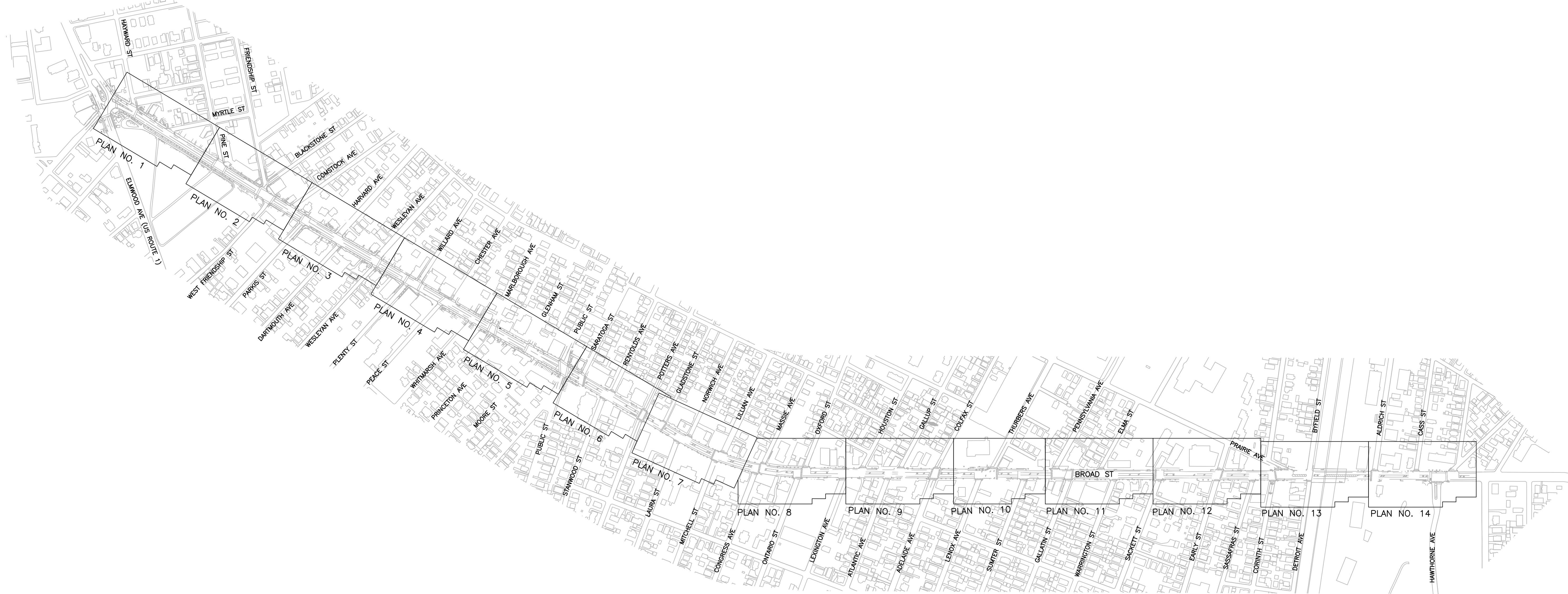
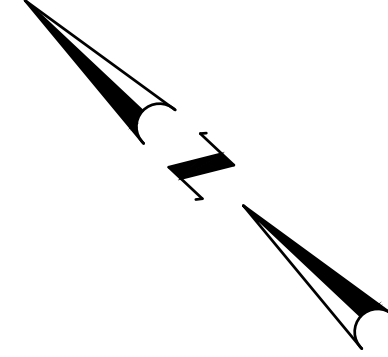
LEGEND

- ① 1.5" PAVEMENT MICROMILLING & HMA OVERLAY

REVISIONS			CITY OF PROVIDENCE DEPARTMENT OF PLANNING & DEVELOPMENT DEPARTMENT OF PUBLIC WORKS
NO.	DATE	BY	
			PHASE 2 BROAD STREET IMPROVEMENTS - RESURFACING PROVIDENCE, RHODE ISLAND
			TYPICAL SECTIONS
			CHECKED BY _____ DATE _____ SCALE _____



FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
			2021	7	25



REVISIONS		
NO.	DATE	BY

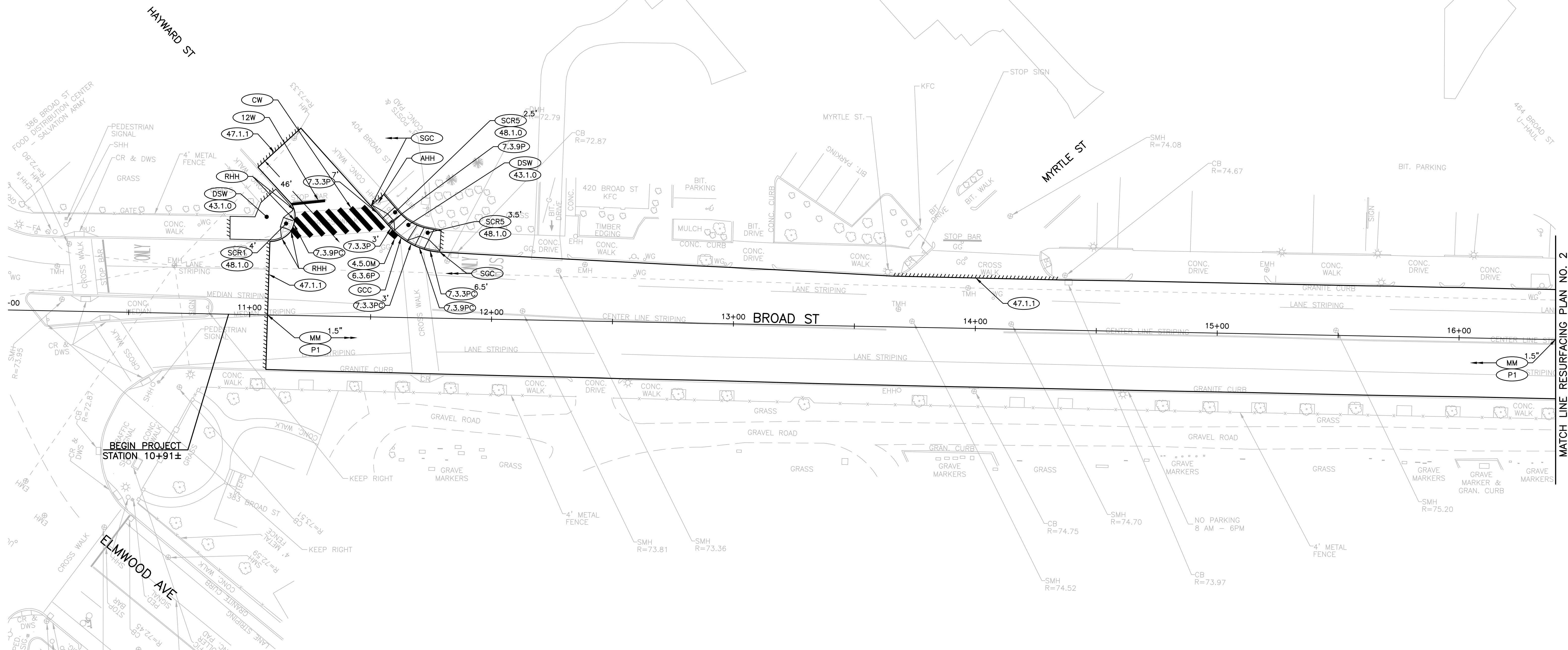
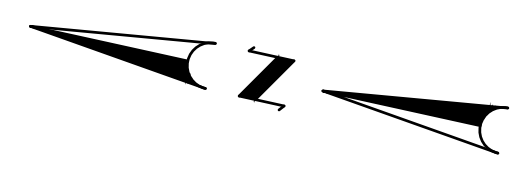
CITY OF PROVIDENCE
DEPARTMENT OF PLANNING & DEVELOPMENT
DEPARTMENT OF PUBLIC WORKS

**PHASE 2
BROAD STREET IMPROVEMENTS
- RESURFACING**
PROVIDENCE, RHODE ISLAND

KEY PLAN

CHECKED BY _____ DATE _____ SCALE 1"=300'





BEGIN PROJECT STATION 10+91±

MATCH LINE RESURFACING PLAN NO. 2

- NOTES:**
1. ALL SURFACE UTILITIES WITHIN THE LIMITS OF THE RESURFACING SHALL BE ADJUSTED TO GRADE.
 2. ALL INLETS WITHIN THE LIMITS OF THE RESURFACING SHALL HAVE INLET PROTECTION.
 3. PROPOSED STRIPING IS SHOWN ON THE CITY WALK - PHASE 2 SIGNING AND STRIPING PLANS. IN AREAS WHERE THE RESURFACING LIMITS EXTEND PAST THE CITY WALK - PHASE 2 STRIPING LIMITS, THE RESURFACING PLAN INCLUDES SUPPLEMENTAL STRIPING.



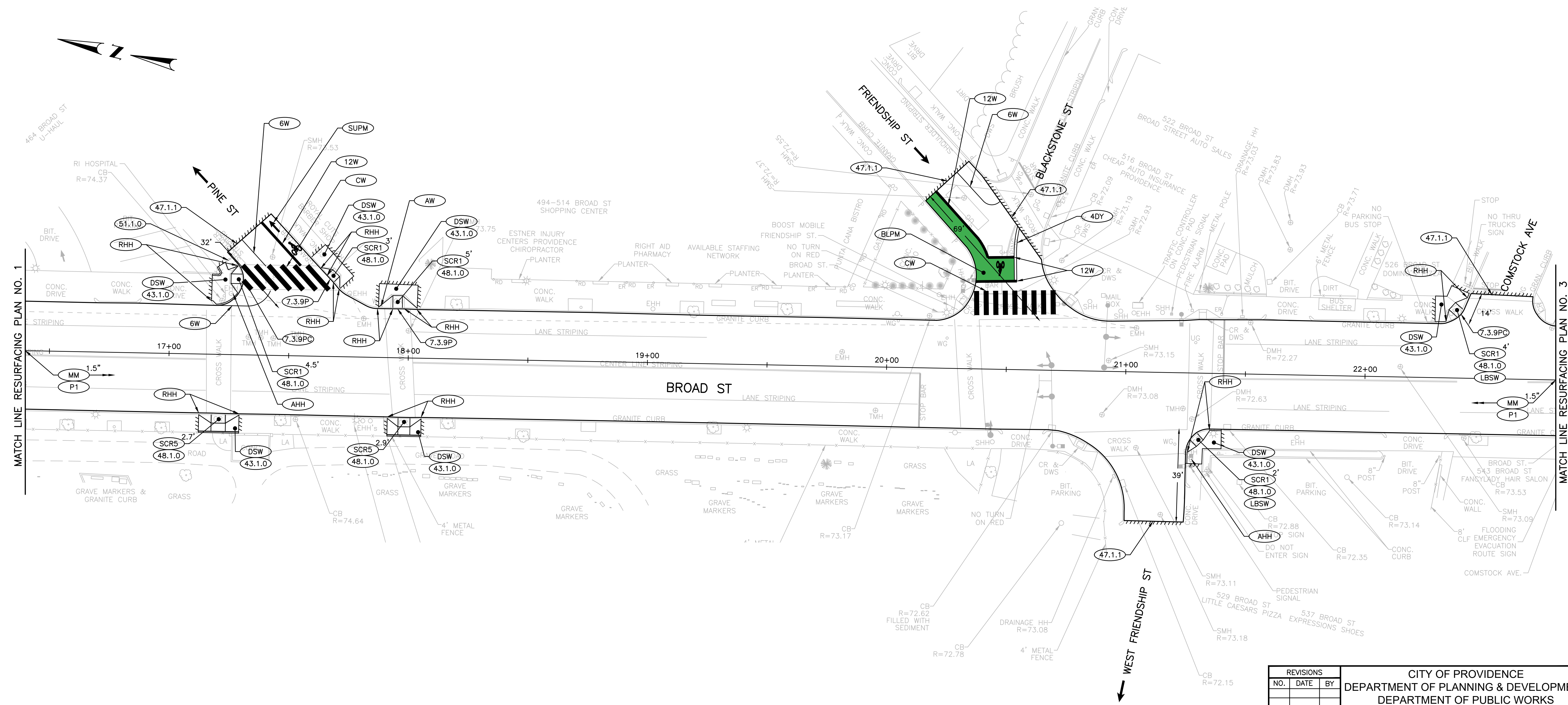
REVISIONS		
NO.	DATE	BY

CITY OF PROVIDENCE
DEPARTMENT OF PLANNING & DEVELOPMENT
DEPARTMENT OF PUBLIC WORKS

**PHASE 2
BROAD STREET IMPROVEMENTS
- RESURFACING**
PROVIDENCE, RHODE ISLAND

**RESURFACING PLAN
NO. 1**

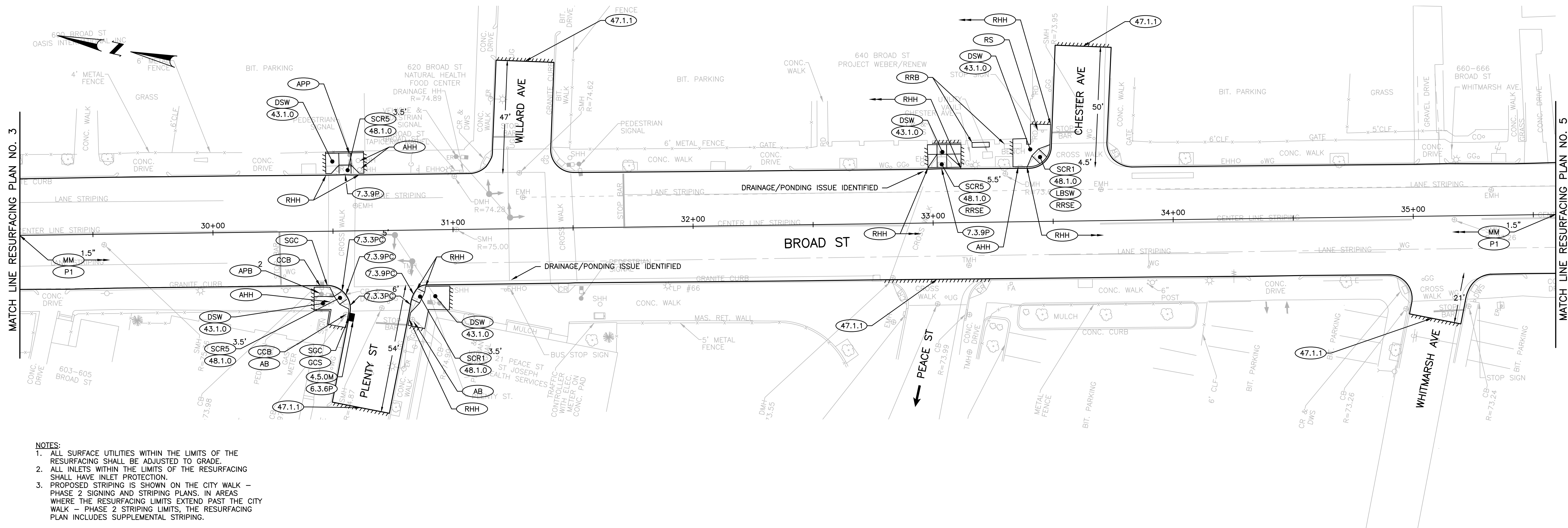
CHECKED BY _____ DATE _____ SCALE 1"=20'



- NOTES:**
1. ALL SURFACE UTILITIES WITHIN THE LIMITS OF THE RESURFACING SHALL BE ADJUSTED TO GRADE.
 2. ALL INLETS WITHIN THE LIMITS OF THE RESURFACING SHALL HAVE INLET PROTECTION.
 3. PROPOSED STRIPING IS SHOWN ON THE CITY WALK - PHASE 2 SIGNING AND STRIPING PLANS. IN AREAS WHERE THE RESURFACING LIMITS EXTEND PAST THE CITY WALK - PHASE 2 STRIPING LIMITS, THE RESURFACING PLAN INCLUDES SUPPLEMENTAL STRIPING.



REVISIONS NO. DATE BY			CITY OF PROVIDENCE DEPARTMENT OF PLANNING & DEVELOPMENT DEPARTMENT OF PUBLIC WORKS
PHASE 2 BROAD STREET IMPROVEMENTS - RESURFACING PROVIDENCE, RHODE ISLAND			
RESURFACING PLAN NO. 2			CHECKED BY _____ DATE _____ SCALE 1"=20'



- NOTES:**
1. ALL SURFACE UTILITIES WITHIN THE LIMITS OF THE RESURFACING SHALL BE ADJUSTED TO GRADE.
 2. ALL INLETS WITHIN THE LIMITS OF THE RESURFACING SHALL HAVE INLET PROTECTION.
 3. PROPOSED STRIPING IS SHOWN ON THE CITY WALK - PHASE 2 SIGNING AND STRIPING PLANS. IN AREAS WHERE THE RESURFACING LIMITS EXTEND PAST THE CITY WALK - PHASE 2 STRIPING LIMITS, THE RESURFACING PLAN INCLUDES SUPPLEMENTAL STRIPING.



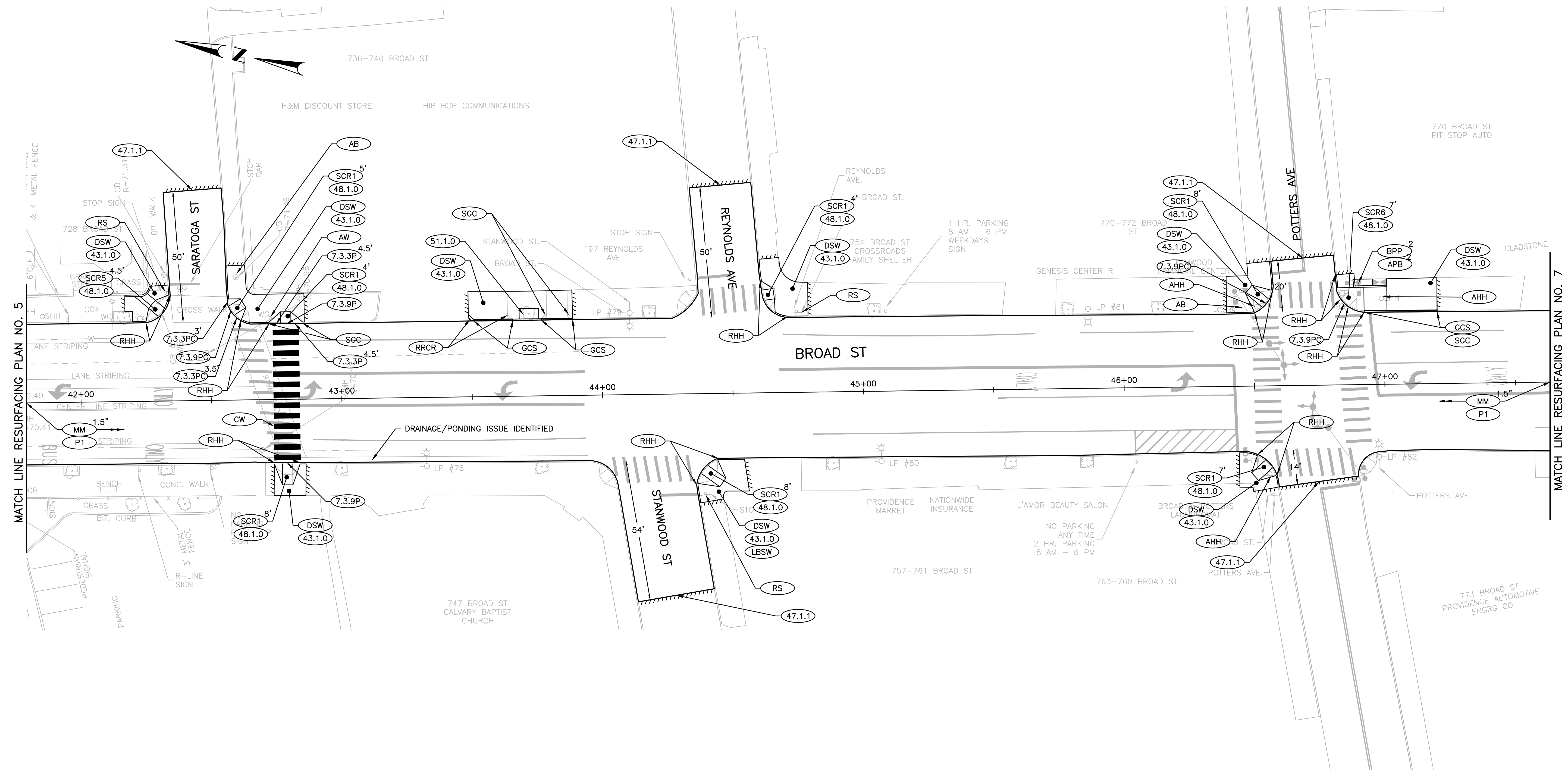
REVISIONS		
NO.	DATE	BY

CITY OF PROVIDENCE
DEPARTMENT OF PLANNING & DEVELOPMENT
DEPARTMENT OF PUBLIC WORKS

**PHASE 2
BROAD STREET IMPROVEMENTS
- RESURFACING
PROVIDENCE, RHODE ISLAND**

**RESURFACING PLAN
NO. 4**

CHECKED BY _____ DATE _____ SCALE 1"=20'



- NOTES:**
1. ALL SURFACE UTILITIES WITHIN THE LIMITS OF THE RESURFACING SHALL BE ADJUSTED TO GRADE.
 2. ALL INLETS WITHIN THE LIMITS OF THE RESURFACING SHALL HAVE INLET PROTECTION.
 3. PROPOSED STRIPING IS SHOWN ON THE CITY WALK - PHASE 2 SIGNING AND STRIPING PLANS. IN AREAS WHERE THE RESURFACING LIMITS EXTEND PAST THE CITY WALK - PHASE 2 STRIPING LIMITS, THE RESURFACING PLAN INCLUDES SUPPLEMENTAL STRIPING.



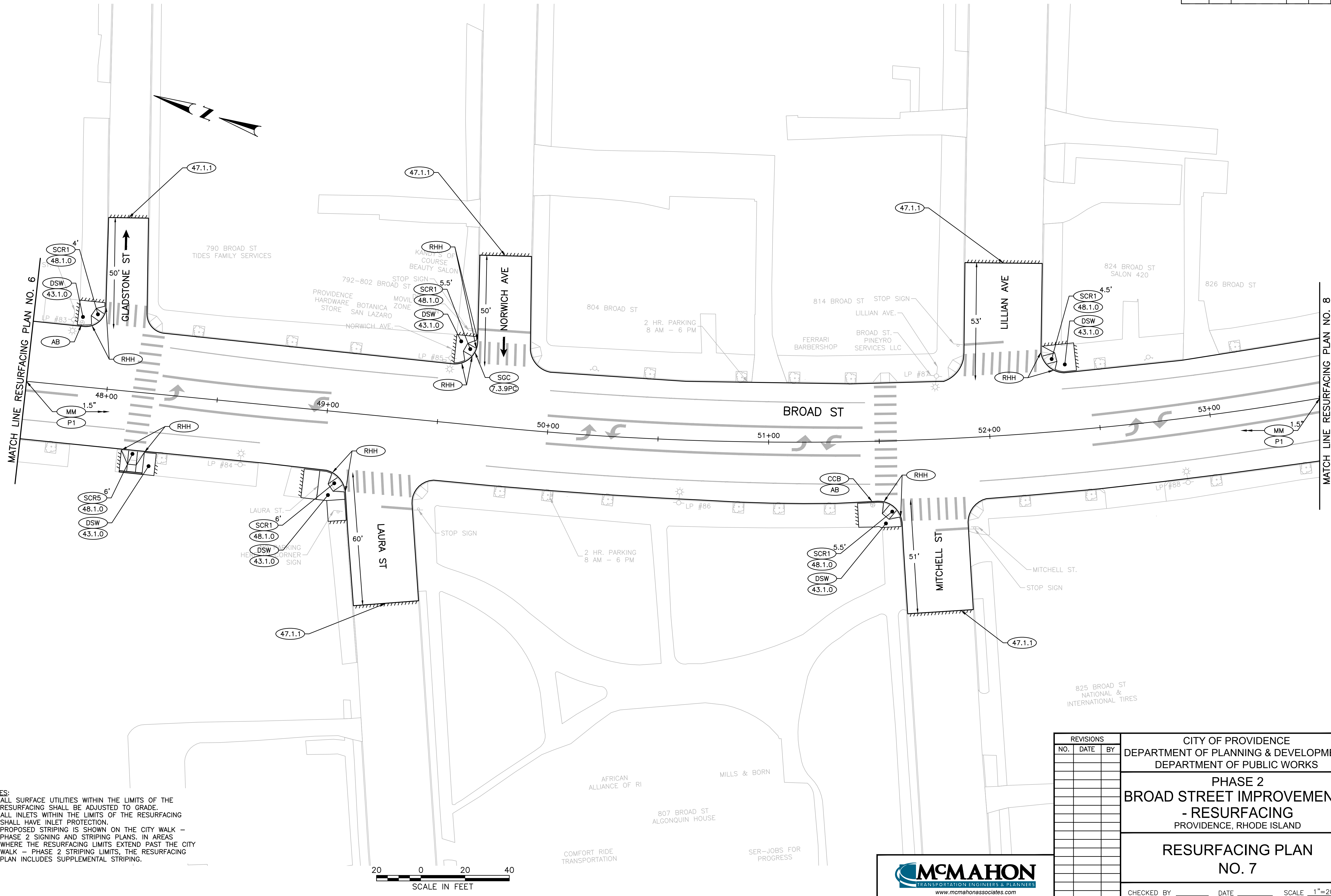
REVISIONS		
NO.	DATE	BY

CITY OF PROVIDENCE
 DEPARTMENT OF PLANNING & DEVELOPMENT
 DEPARTMENT OF PUBLIC WORKS

PHASE 2
BROAD STREET IMPROVEMENTS
- RESURFACING
 PROVIDENCE, RHODE ISLAND

RESURFACING PLAN
NO. 6

CHECKED BY _____ DATE _____ SCALE 1"=20'



- NOTES:
- ALL SURFACE UTILITIES WITHIN THE LIMITS OF THE RESURFACING SHALL BE ADJUSTED TO GRADE.
 - ALL INLETS WITHIN THE LIMITS OF THE RESURFACING SHALL HAVE INLET PROTECTION.
 - PROPOSED STRIPING IS SHOWN ON THE CITY WALK - PHASE 2 SIGNING AND STRIPING PLANS. IN AREAS WHERE THE RESURFACING LIMITS EXTEND PAST THE CITY WALK - PHASE 2 STRIPING LIMITS, THE RESURFACING PLAN INCLUDES SUPPLEMENTAL STRIPING.



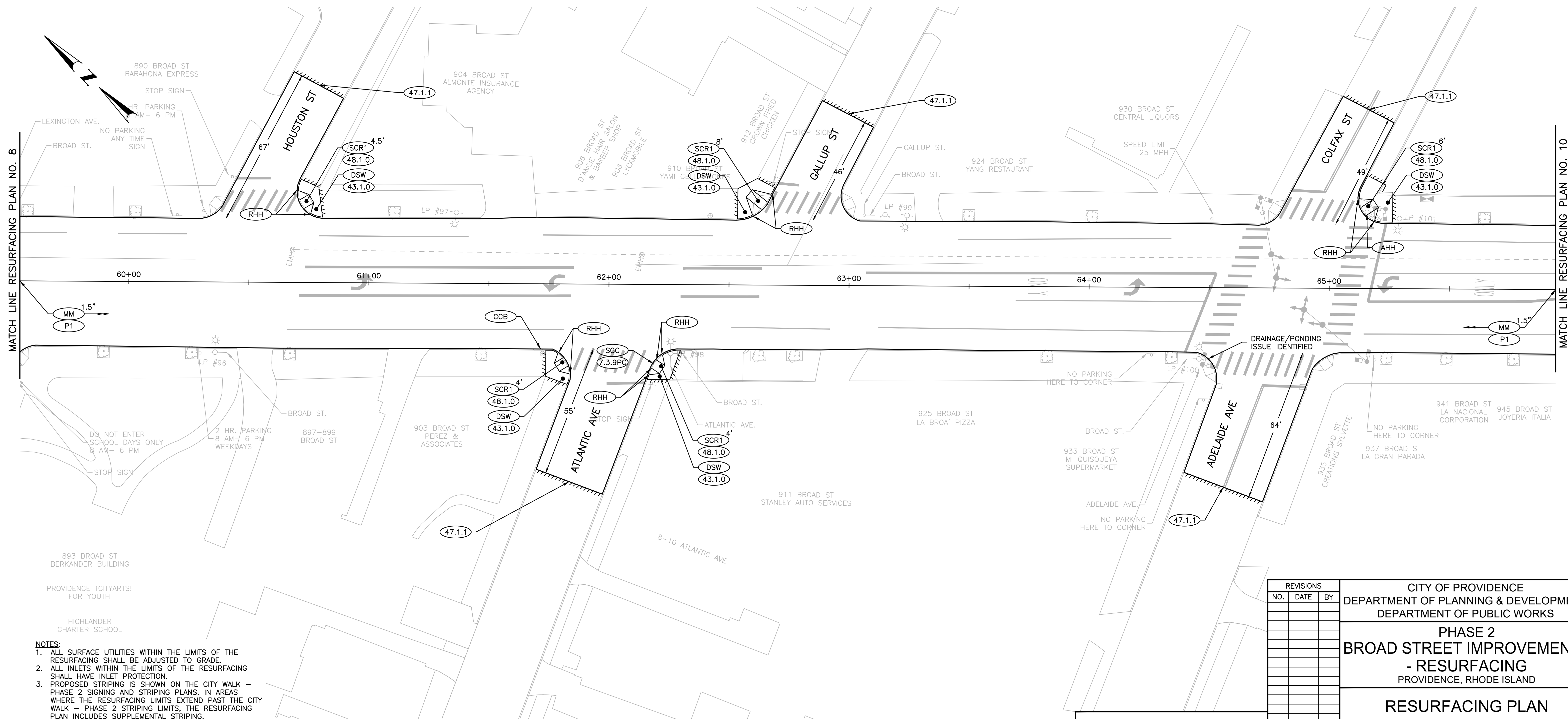
REVISIONS		
NO.	DATE	BY

CITY OF PROVIDENCE
DEPARTMENT OF PLANNING & DEVELOPMENT
DEPARTMENT OF PUBLIC WORKS

**PHASE 2
BROAD STREET IMPROVEMENTS
- RESURFACING**
PROVIDENCE, RHODE ISLAND

**RESURFACING PLAN
NO. 7**

CHECKED BY _____ DATE _____ SCALE 1"=20'



- NOTES:**
1. ALL SURFACE UTILITIES WITHIN THE LIMITS OF THE RESURFACING SHALL BE ADJUSTED TO GRADE.
 2. ALL INLETS WITHIN THE LIMITS OF THE RESURFACING SHALL HAVE INLET PROTECTION.
 3. PROPOSED STRIPING IS SHOWN ON THE CITY WALK - PHASE 2 SIGNING AND STRIPING PLANS. IN AREAS WHERE THE RESURFACING LIMITS EXTEND PAST THE CITY WALK - PHASE 2 STRIPING LIMITS, THE RESURFACING PLAN INCLUDES SUPPLEMENTAL STRIPING.



REVISIONS		
NO.	DATE	BY

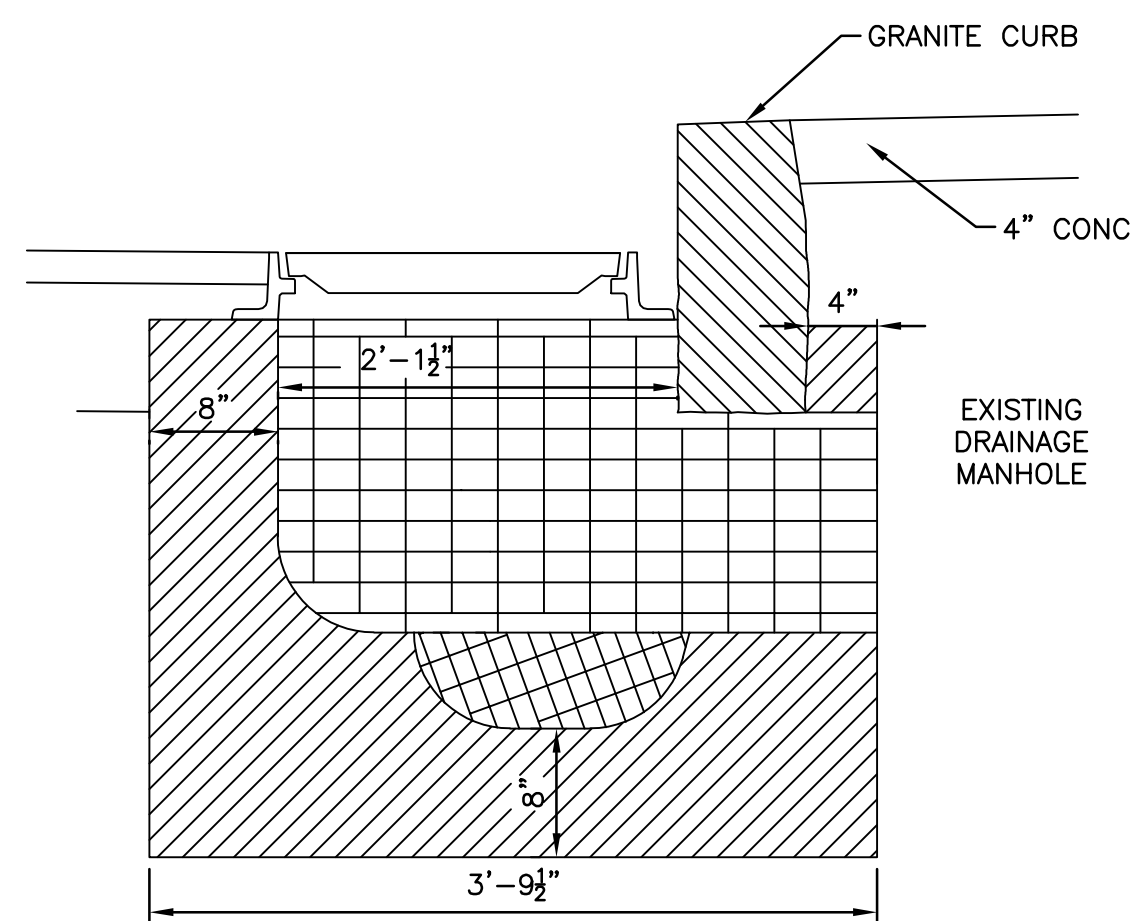
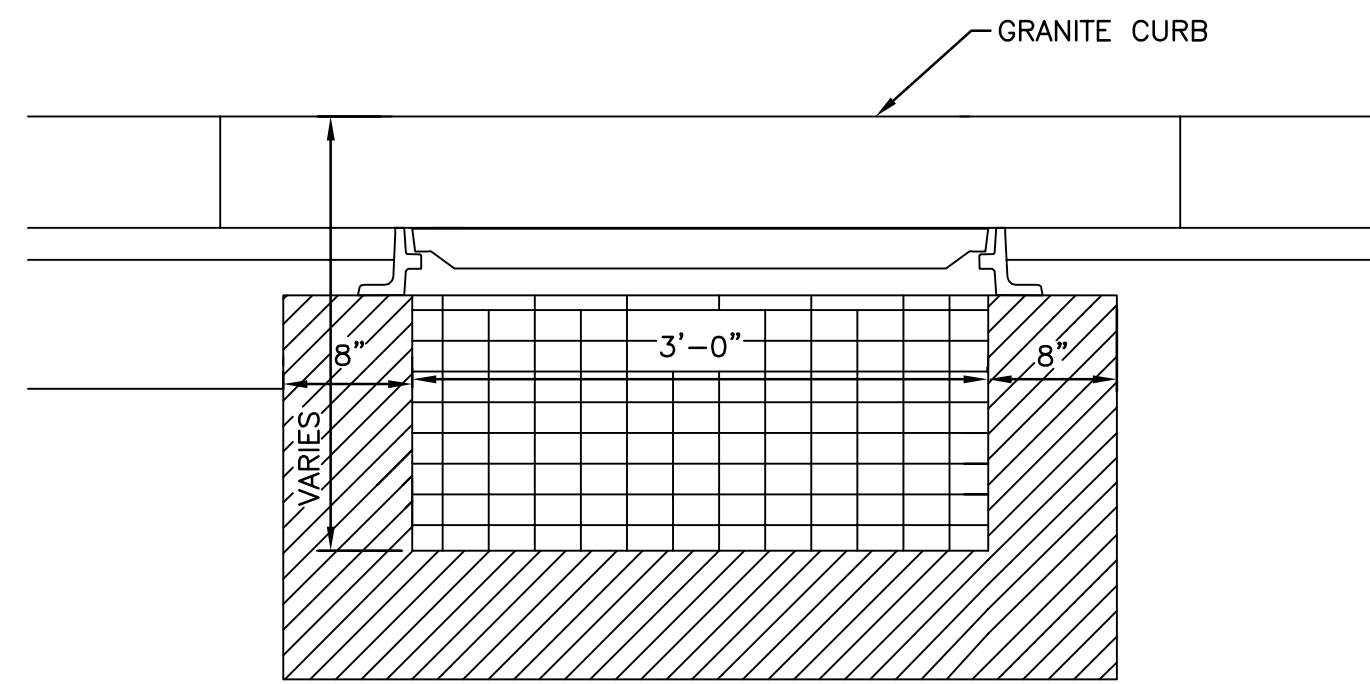
CITY OF PROVIDENCE
DEPARTMENT OF PLANNING & DEVELOPMENT
DEPARTMENT OF PUBLIC WORKS

**PHASE 2
BROAD STREET IMPROVEMENTS
- RESURFACING**
PROVIDENCE, RHODE ISLAND

**RESURFACING PLAN
NO. 9**

CHECKED BY _____ DATE _____ SCALE 1"=20'

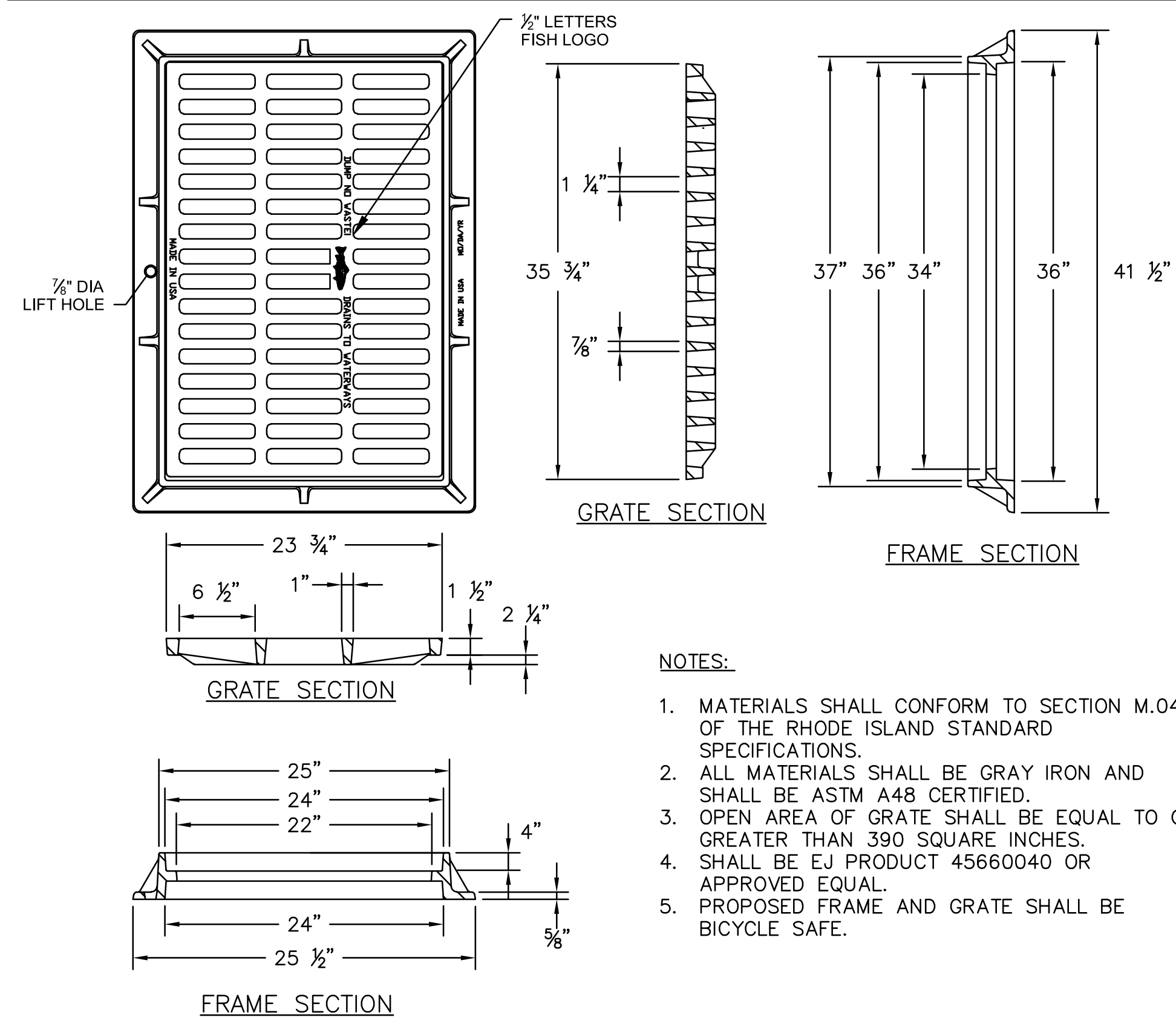




BRICK DROP INLET (4.5.0M)
(NOT TO SCALE)



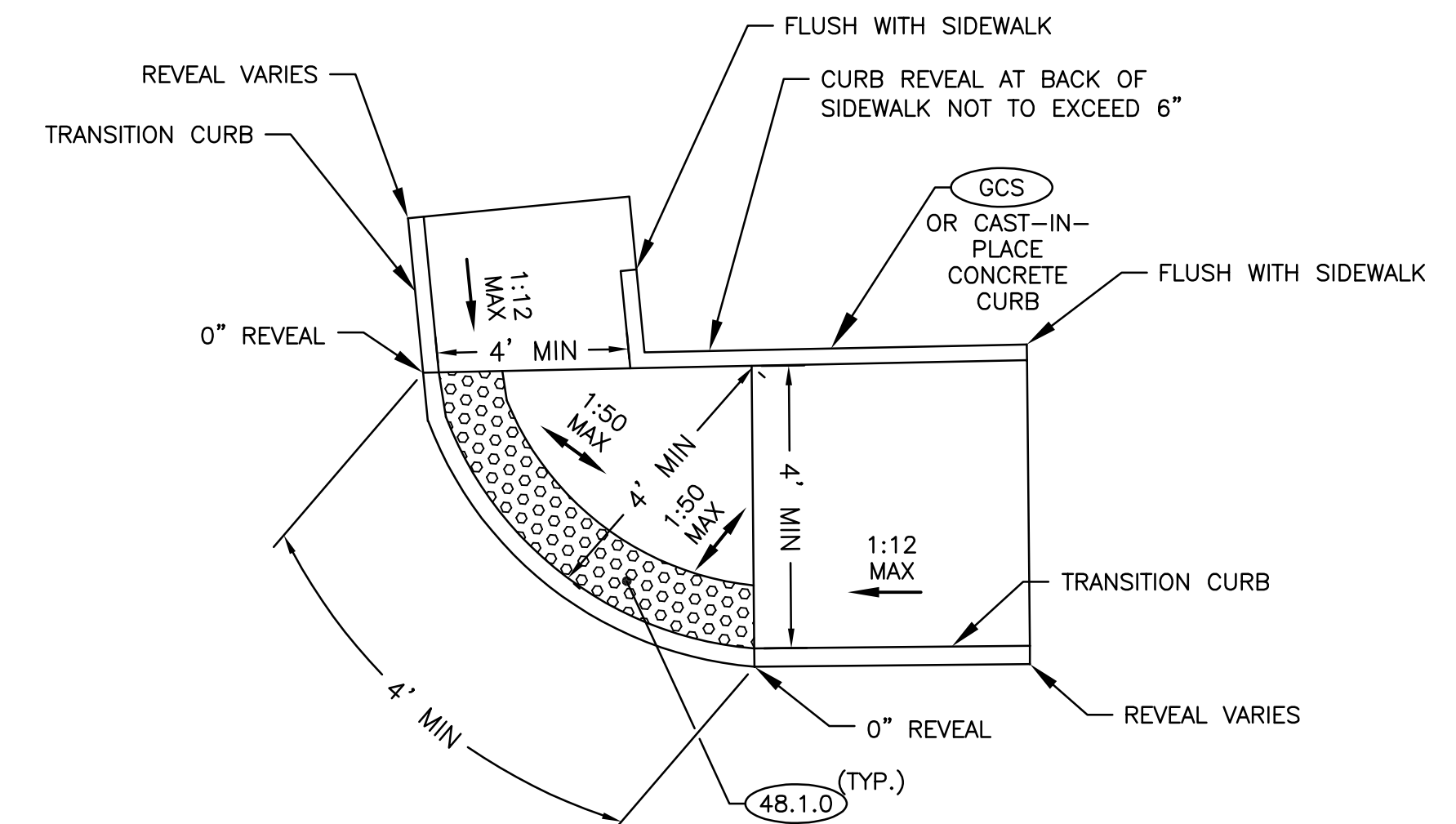
SP-1L/R ACCESSIBLE ROUTE SIGNS
(NOT TO SCALE)



NOTES:

1. MATERIALS SHALL CONFORM TO SECTION M.04 OF THE RHODE ISLAND STANDARD SPECIFICATIONS.
2. ALL MATERIALS SHALL BE GRAY IRON AND SHALL BE ASTM A48 CERTIFIED.
3. OPEN AREA OF GRATE SHALL BE EQUAL TO OR GREATER THAN 390 SQUARE INCHES.
4. SHALL BE EJ PRODUCT 45660040 OR APPROVED EQUAL.
5. PROPOSED FRAME AND GRATE SHALL BE BICYCLE SAFE.

PROVIDENCE STANDARD FRAME AND GRATE (6.3.6P)
(NOT TO SCALE)



SPECIAL CURB RAMP, TYPE 6 (SCR6)
(NOT TO SCALE)

REVISIONS			CITY OF PROVIDENCE DEPARTMENT OF PLANNING & DEVELOPMENT DEPARTMENT OF PUBLIC WORKS
NO.	DATE	BY	
			PHASE 2 BROAD STREET IMPROVEMENTS - RESURFACING PROVIDENCE, RHODE ISLAND
			DETAILS SHEET NO. 2
			CHECKED BY _____ DATE _____ SCALE AS SHOWN



NOTES:

- ALL TEMPORARY TRAFFIC CONTROL SET-UPS AND DEVICES AND THEIR INSTALLATION, MAINTENANCE, AND REMOVAL SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) WITH ALL REVISIONS, AND THE LATEST EDITION OF THE "RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" WITH ALL REVISIONS.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED. WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME, TEMPORARY TRAFFIC CONTROL DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
- DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- THE MAXIMUM ALLOWABLE LENGTH OF THE SHIFTED TANGENT SECTION FOR THE TEMPORARY TRAFFIC CONTROL SET-UP SHOWN IS 600 FEET.
- MAXIMUM SPACING OF CHANNELIZATION DEVICES IN A TAPER IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH. MAXIMUM SPACING OF CHANNELIZATION DEVICES IN A TANGENT SECTION IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH. SHORTER SPACINGS BETWEEN TRAFFIC TRAVELING IN OPPOSITE DIRECTIONS WHERE ADDITIONAL EMPHASIS IS NEEDED TO CLEARLY DEFINE THE DESIRED TRAVEL PATHS.
- MINIMUM LANE WIDTH IS TO BE 11 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF CHANNELIZATION DEVICES.
- THE SIZES OF ALL DIAMOND SHAPED ADVANCE WARNING SIGNS SHALL BE 36" X36".
- PEDESTRIANS SHALL BE CONSIDERED IN ALL MAINTENANCE AND PROTECTION OF TRAFFIC SETUPS. THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS ROUTES/RAMPS THROUGH CONSTRUCTION AREAS TO ENSURE THIS ACCESS. THE TEMPORARY PEDESTRIAN ACCESS SHALL BE DETECTABLE AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE EXISTING SIDEWALKS, INCLUDING TEMPORARY CURB RAMPS. THE TEMPORARY BARRIER SHALL MEET ADA REQUIREMENTS THROUGH WORK ZONES. THE CONTRACTOR MUST PROVIDE FOR PEDESTRIANS TO SAFELY GUIDE THEM AWAY FROM BROKEN AND UNEVEN PAVEMENT, OPEN EXCAVATIONS, DROP-OFFS, CONSTRUCTION OPERATIONS, AND OTHER HAZARDS AT ALL TIMES. TEMPORARY CURB RAMPS SHALL BE PROVIDED FOR SIDEWALK DIVERSIONS, WHERE NECESSARY. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR THE PROVISION OF PEDESTRIAN WAYS, ALL COSTS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

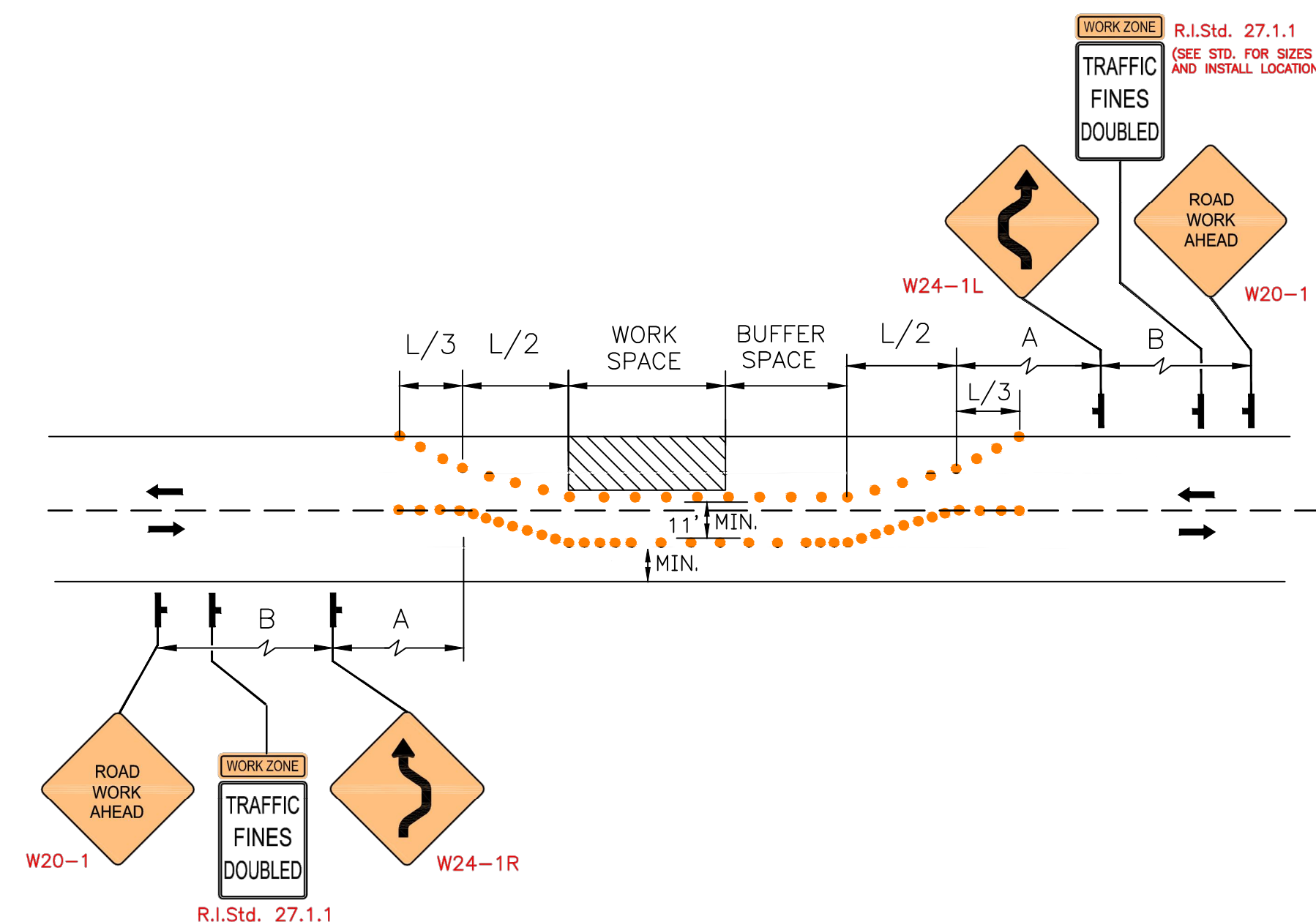
Speed Limit	Taper Length* (L) Feet	Upstream Buffer Space* (Feet)
25 MPH	125	55

* Required
NOTE: CHART VALUES ASSUME W (WIDTH OF OFFSET) IS EQUAL TO 11 FEET.

**TABLE 1
BUFFER LENGTHS**

Posted Speed Limit & Location	DISTANCE BETWEEN SIGNS (Feet)		
	A	B	C
30 MPH OR LESS in URBAN OR RURAL AREA	100	100	100

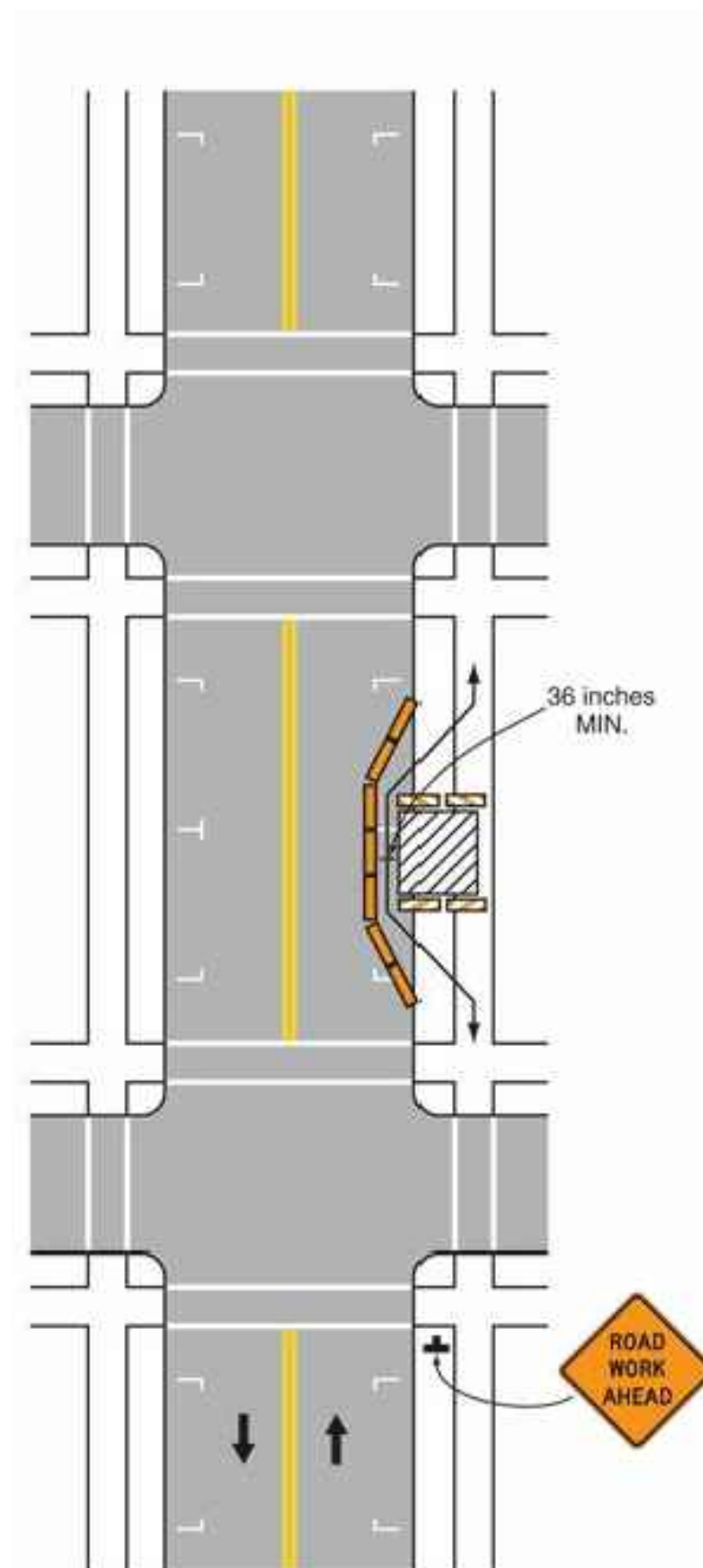
**TABLE 2
MINIMUM ADVANCE
WARNING SIGN SPACING**



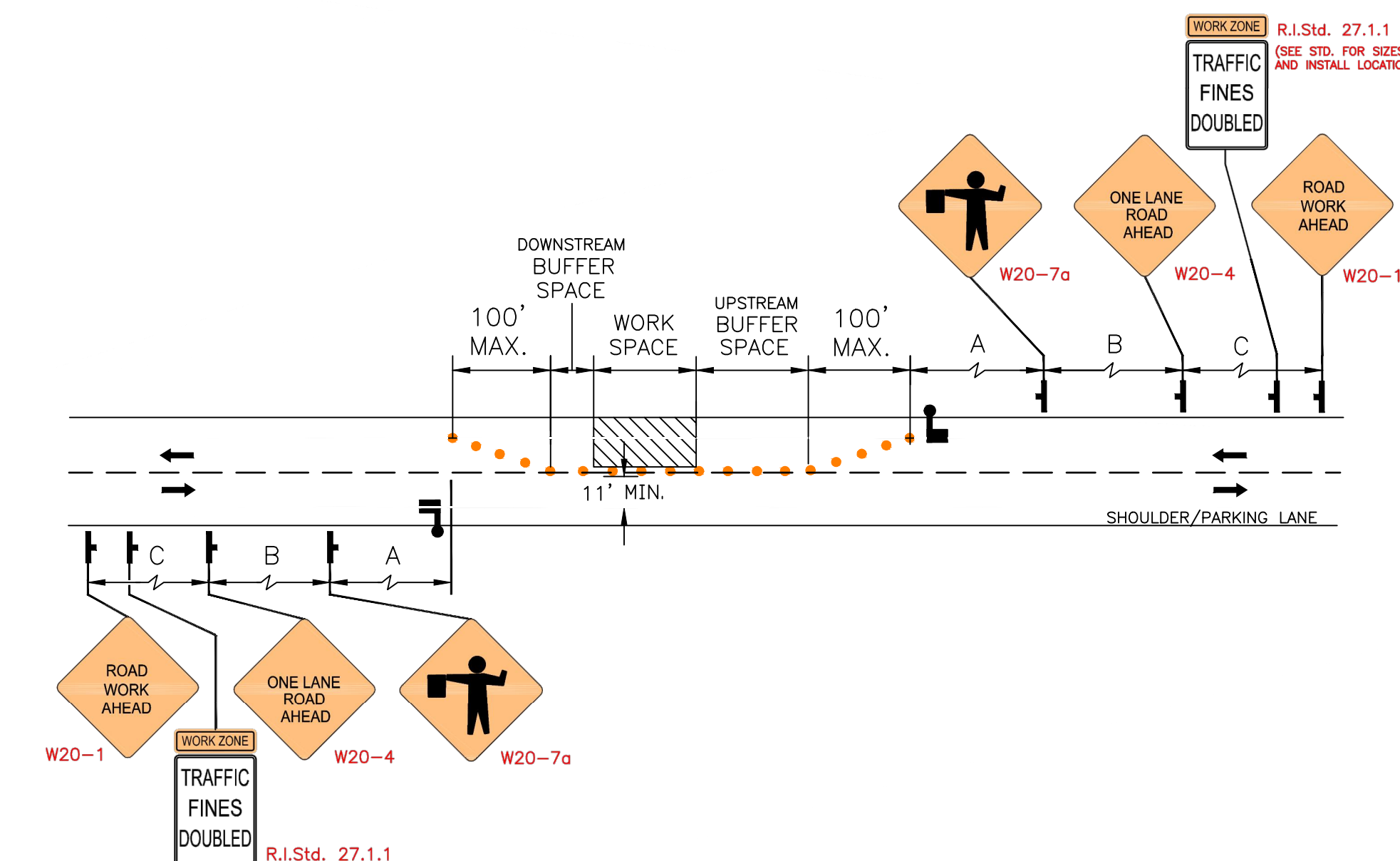
TYPICAL LANE SHIFT ON TWO-LANE ROADWAY

LEGEND

- ARROW BOARD
- ARROW BOARD SUPPORT OR TRAILER (SHOWN FACING DOWN)
- CHANGEABLE MESSAGE SIGN OR SUPPORT TRAILER
- CHANNELIZING DEVICE
- CRASH CUSHION
- DIRECTION OF TEMPORARY TRAFFIC
- DETOUR DIRECTION OF TRAFFIC
- FLAGGER
- HIGH-LEVEL WARNING DEVICE (FLAG TREE)
- LONGITUDINAL CHANNELIZING DEVICE
- LUMINARE
- PAVEMENT MARKINGS THAT SHOULD BE REMOVED FOR A LONG-TERM PROJECT



TYPICAL SIDEWALK DIVERSION



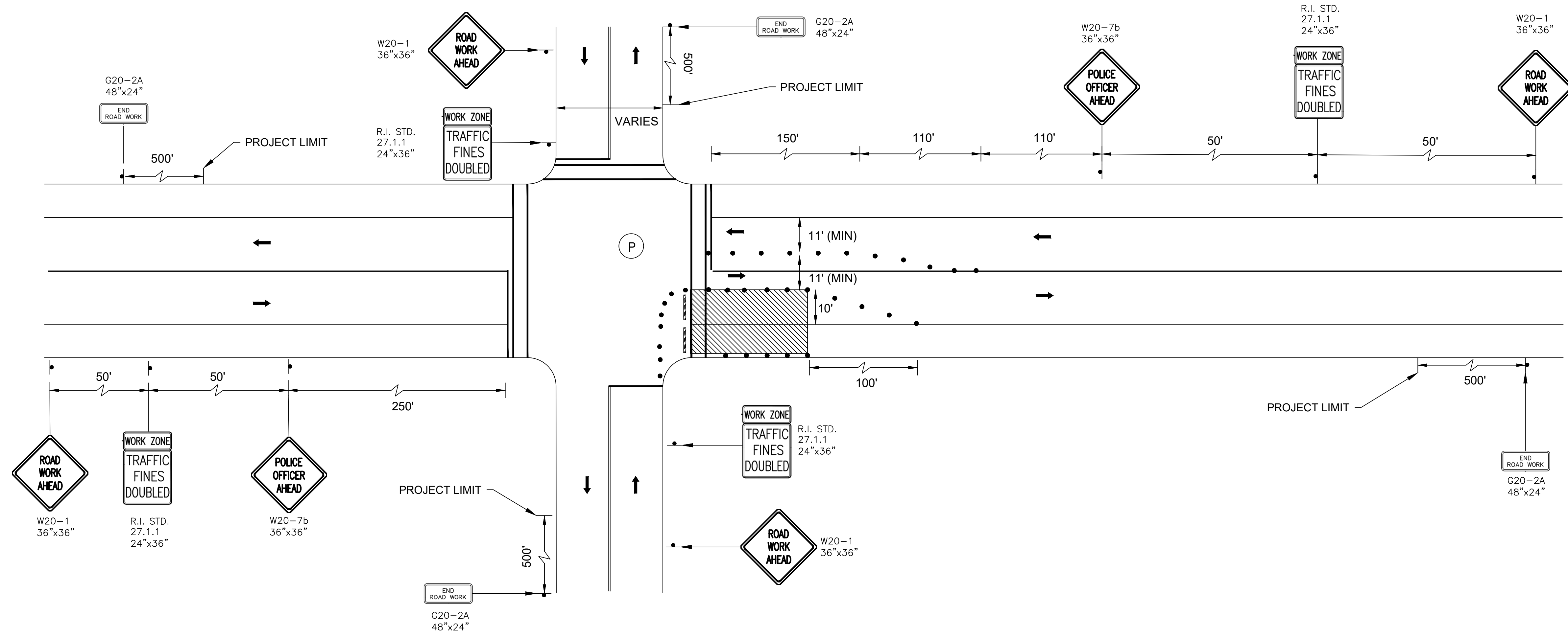
TYPICAL LANE CLOSURE ON TWO-LANE ROADWAY

REVISIONS			CITY OF PROVIDENCE DEPARTMENT OF PLANNING & DEVELOPMENT DEPARTMENT OF PUBLIC WORKS
NO.	DATE	BY	
			PHASE 2 BROAD STREET IMPROVEMENTS - RESURFACING PROVIDENCE, RHODE ISLAND MAINTENANCE AND PROTECTION OF TRAFFIC PLAN NO. 1
CHECKED BY _____ DATE _____ SCALE 1"=20'			



NOTES:

1. ALL TEMPORARY TRAFFIC CONTROL SET-UPS AND DEVICES AND THEIR INSTALLATION, MAINTENANCE, AND REMOVAL SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) WITH ALL REVISIONS, AND THE LATEST EDITION OF THE "RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" WITH ALL REVISIONS.
2. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK.
3. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED. WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME, TEMPORARY TRAFFIC CONTROL DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
4. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
5. THE MAXIMUM ALLOWABLE LENGTH OF THE SHIFTED TANGENT SECTION FOR THE TEMPORARY TRAFFIC CONTROL SET-UP SHOWN IS 600 FEET.
6. MAXIMUM SPACING OF CHANNELIZATION DEVICES IN A TAPER IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH. MAXIMUM SPACING OF CHANNELIZATION DEVICES IN A TANGENT SECTION IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH. SHORTER SPACINGS BETWEEN TRAFFIC TRAVELING IN OPPOSITE DIRECTIONS WHERE ADDITIONAL EMPHASIS IS NEEDED TO CLEARLY DEFINE THE DESIRED TRAVEL PATHS.
7. MINIMUM LANE WIDTH IS TO BE 11' FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF CHANNELIZATION DEVICES.
8. THE SIZES OF ALL DIAMOND SHAPED ADVANCE WARNING SIGNS SHALL BE 36" X 36".
9. PEDESTRIANS SHALL BE CONSIDERED IN ALL MAINTENANCE AND PROTECTION OF TRAFFIC SETUPS. THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS ROUTES/RAMPS THROUGH CONSTRUCTION AREAS TO ENSURE THIS ACCESS. THE TEMPORARY PEDESTRIAN ACCESS SHALL BE DETECTABLE AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE EXISTING SIDEWALKS, INCLUDING TEMPORARY CURB RAMPS. THE TEMPORARY BARRIER SHALL MEET ADA REQUIREMENTS THROUGH WORK ZONES. THE CONTRACTOR MUST PROVIDE FOR PEDESTRIANS TO SAFELY GUIDE THEM AWAY FROM BROKEN AND UNEVEN PAVEMENT, OPEN EXCAVATIONS, DROP-OFFS, CONSTRUCTION OPERATIONS, AND OTHER HAZARDS AT ALL TIMES. TEMPORARY CURB RAMPS SHALL BE PROVIDED FOR SIDEWALK DIVERSIONS, WHERE NECESSARY. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR THE PROVISION OF PEDESTRIAN WAYS, ALL COSTS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
10. FLASHING WARNING LIGHT AND/OR FLAGS MAY BE USED TO CALL ATTENTION TO THE ADVANCE WARNING SIGNS.
11. POLICE DETAIL TO BE USED FOR INTERSECTION TRAFFIC CONTROL.



TYPICAL LANE CLOSURE ON FAR SIDE OF INTERSECTION
TWO-LANE ROADWAY

LEGEND

- | | | | |
|--|--|--|--------------------------------------|
| | ARROW BOARD | | SHADOW VEHICLE |
| | ARROW BOARD SUPPORT OR TRAILER (SHOWN FACING DOWN) | | SIGN (SHOWN FACING LEFT) |
| | CHANGEABLE MESSAGE SIGN OR SUPPORT TRAILER | | SURVEYOR |
| | CHANNELIZING DEVICE | | TEMPORARY BARRIER |
| | CRASH CUSHION | | TEMPORARY BARRIER WITH WARNING LIGHT |
| | DIRECTION OF TEMPORARY TRAFFIC DETOUR | | TRAFFIC OR PEDESTRIAN SIGNAL |
| | DIRECTION OF TRAFFIC FLAGGER | | TRUCK-MOUNTED ATTENUATOR |
| | HIGH-LEVEL WARNING DEVICE (FLAG TREE) | | TYPE 3 BARRICADE |
| | LONGITUDINAL CHANNELIZING DEVICE | | WARNING LIGHT |
| | LUMINARE | | WORK SPACE |
| | PAVEMENT MARKINGS THAT SHOULD BE REMOVED FOR A LONG-TERM PROJECT | | WORK VEHICLE |
| | POLICE DETAIL | | |

REVISIONS			CITY OF PROVIDENCE DEPARTMENT OF PLANNING & DEVELOPMENT DEPARTMENT OF PUBLIC WORKS
NO.	DATE	BY	
			PHASE 2 BROAD STREET IMPROVEMENTS - RESURFACING PROVIDENCE, RHODE ISLAND
			MAINTENANCE AND PROTECTION OF TRAFFIC PLAN NO. 2
			CHECKED BY _____ DATE _____ SCALE 1"=20'

