

State of Rhode Island and Providence Plantations Contract Offer
RIVIP GENERATED BIDDER CERTIFICATION COVER FORM

SECTION 1 - VENDOR INFORMATION

Bid/RFP Number:

Bid/RFP Title:

Opening Date & Time:

RIVIP Vendor ID #:

Vendor Name:

Address:

Telephone:

Fax:

E-Mail:

Contact Person:

Title:

R.I. Foreign Corp #:

REVISED NOTICE TO VENDORS

Effective January 1, 2012 all public works projects related bids or proposals exceeding SEVEN HUNDRED FIFTY THOUSAND (\$750,000) dollars are required to include a "public copy". All agency contract solicitations, requests for proposals, invitations for bids, etc. shall state that any bid or proposal that exceeds SEVEN HUNDRED FIFTY THOUSAND (\$750,000) dollars must include a copy to be available for public inspection upon the opening of the bids. Any bid or proposal that exceeds SEVEN HUNDRED FIFTY THOUSAND (\$750,000) dollars which does not include a copy for public inspection shall be deemed to be non-responsive. Additionally, proposals submitted for a Master Price Agreement, when the total amount potentially may exceed SEVEN HUNDRED FIFTY THOUSAND (\$750,000) dollars and the solicitation expressly requires any or all vendors to submit a public copy, must include a copy to be available for public inspection. For further information, please see RI Gen Laws §37-2-18(j) and State of RI Procurement Regulations at <http://purchasing.ri.gov/rulesandregulations/rulesandregulations.aspx>. Please see Question #11 below for further instructions regarding RIDOT Highway and Bridge construction projects.

NOTE: AWARD OF CONTRACTS AND PURCHASE ORDERS SHALL BE SUBJECT, AT THE DISCRETION OF THE PURCHASING AGENT, TO THE OFFEROR COMPLETING AN ON-LINE RIVIP REGISTRATION at www.purchasing.ri.gov. It is THE RESPONSIBILITY OF THE VENDOR to make on-line corrections/updates using the Vendor maintenance program on the RI Division of Purchases Web Site.

SECTION 2 - REQUIREMENTS

ALL OFFERS ARE SUBJECT TO THE REQUIREMENTS, PROVISIONS AND PROCEDURES CONTAINED IN THIS THREE-PAGE CERTIFICATION FORM. Offerors are expected to READ, SIGN and COMPLY with all requirements. Failure to do so may be grounds for disqualification of the offer contained herein.

Section 2.1 - RULES FOR SUBMITTING OFFERS

2.1A. This CERTIFICATION FORM MUST BE ATTACHED IN ITS ENTIRETY TO THE FRONT OF THE OFFER and shall be considered an integral part of each offer made by a vendor to enter into a contract with the State of Rhode Island, Division of Purchases. As such, submittal of the entire Bidder Certification Cover Form, signed by a duly authorized representative of the offeror attesting that he/she (1) has read and agrees to comply with the requirements set forth herein and (2) to the accuracy of the information provided and the offer extended, is a mandatory part of any contract award.

To assure that offers are considered on time, each offer must be submitted with the specific Bid/RFP/LOI number (provided above), date and time of opening marked in the upper left hand corner of envelope. Each bid/offer must be submitted in separate sealed envelopes.

A complete, signed (in ink) offer package, must be delivered to the Division of Purchases (via any mail or messenger service) by the time and date specified for the opening of responses in a sealed envelope.

Bids must be submitted on the RI bid solicitation forms provided, indicating brand and part numbers of items offered, as appropriate. Bidders must submit detailed cuts and specs on items offered as equivalent to brands requested WITH THE OFFER. Bidders must be able to submit samples if requested.

Mail To: Division of Purchases, One Capitol Hill, Second Floor, Providence, RI 02908-5855.

Documents misdirected to other State locations or which are not present in the Division of Purchases at the time of opening for whatever cause will be deemed to be late and will not be considered. For the purposes of this requirement, the official time and date shall be that of the time clock in the Division of Purchases. Postmarks shall not be considered proof of timely submission.

2.1B. RIVIP SOLICITATIONS. To assure maximum access opportunities for users, public bid/RFP solicitations shall be posted on the RIVIP for a minimum of seven days and no amendments shall be made within the last five days before the date an offer is due. Except when access to the Web Site has been severely curtailed and it is determined by the State Purchasing Agent that special circumstances preclude extending a solicitation due date, requests to mail or fax hard copies of solicitations will not be honored. When the result of an Internet solicitation is unsuccessful, the State of Rhode Island will cancel the original solicitation and resolicit the original offer directly from vendors.

2.2. PRICING. Offers are irrevocable for sixty (60) days from the opening date (or such other extended period set forth in the solicitation) and may not be withdrawn, except with the express permission of the State Purchasing Agent. All pricing will be considered to be firm and fixed unless otherwise indicated. The State of Rhode Island is exempt from Federal excise taxes and State Sales and Use Taxes. Such taxes shall not be included in the bid price. PRICES QUOTED ARE FOB DESTINATION.

2.3. DELIVERY and PRODUCT QUALITY. All offers must define delivery dates for all items; if no delivery date is specified, it is assumed that immediate delivery from stock will be made. The contractor will be responsible for delivery of materials in first class condition. Rejected materials will be at vendor's expense.

2.4. PREVAILING WAGE, OSHA and APPRENTICESHIP.

2.4.1 Prevailing Wage and OSHA Safety Training Requirements. The provisions of the State labor laws and OSHA Safety Training, including but not limited to Rhode Island General Laws 37-13-1 et seq. and 28-20-1 et seq., shall apply for all public works contracts. Prevailing wage rates are posted in the information section of the RIVIP. The RI Department of Labor and Training should be contacted for regulatory requirements.

2.4.2 (a) Apprenticeship. Rhode Island General Laws §37-13-3.1 requires all general contractors and subcontractors who perform work on any public works contract awarded by the state valued at one million dollars (\$1,000,000) or more shall employ apprentices required for the performance of the awarded contract. The number of apprentices shall comply with the apprentice to journeyman ratio for each trade approved by the apprenticeship council of the Department of Labor and Training.

2.4.2(b) In addition to executing this certification, the general contractor shall be responsible for requiring that all subcontractors on the awarded project certify their compliance with R.I. Gen. Laws §37-13-3.1 prior to allowing the subcontractor to commence work on the awarded project. The general contractor shall be responsible for submitting the subcontractors' compliance certification to the Division of Purchases after the contracts are finalized between the contractor and subcontractor.

2.5. PUBLIC RECORDS. Offerors are advised that all materials submitted to the State for consideration in response to this solicitation will be considered without exception to be Public Records pursuant to Title 38 Chapter 2 of the Rhode Island General Laws, and will be released for inspection immediately upon request once an award has been made. Offerors are encouraged to attend public bid/RFP openings to obtain information; however, bid/RFP response summaries may be reviewed after award(s) have been made by using the RIVIP at any time or appearing in person at the Division of Purchases Mondays through Fridays between 8:30 a.m. and 3:30 p.m. Telephone requests for results will not be honored. Written requests for results will only be honored if the information is not available on the RIVIP.

SECTION 3 - AWARD DETERMINATION

Award will be made to the responsive and responsible offeror quoting the lowest net price in accordance with specifications, for any individual item(s), for major groupings of items, or for all items listed, at the State's sole option.

3.1. BID SURETY. Where bid surety is required, bidder must furnish a bid bond or certified check for 5% of the bid total with the bid, or for such other amount as may be specified. Bids submitted without a required bid surety will not be considered.

3.2. SPECIFICATIONS. Unless specified "no substitute," product offerings equivalent in quality and performance will be considered (at the sole option of the State) on the condition that the offer is accompanied by detailed product specifications. Offers which fail to include alternate specifications may be deemed nonresponsive.

SECTION 4 – CONTRACT PROVISIONS

4.1. VENDOR AUTHORIZATION TO PROCEED.

4.1A. When a purchase order, change order, contract/agreement or contract/agreement amendment is issued by the RI Division of Purchases, no claim for payment for services rendered or goods delivered contrary to or in excess of the contract terms and scope shall be considered valid unless the vendor has obtained a written change order or contract amendment issued by the Division of Purchases PRIOR TO delivery.

4.1B. Any offer, whether in response to a solicitation for proposals or bids, or made without a solicitation, which is accepted in the form of an order OR Pricing Agreement made in writing by the Purchasing Agent, or a state official with purchasing authority delegated by the Purchasing Agent, shall be considered a binding contract.

4.2. REGULATIONS, GENERAL TERMS AND CONDITIONS GOVERNING STATE CONTRACTS. This solicitation and any contract or purchase order arising from it are issued in accordance with the specific requirements described herein, and the State's Purchasing Laws and Regulations and other applicable State Laws. The Regulations, General Terms and Conditions are incorporated into all state contracts. These regulations and basic information on How To Do Business with the State of Rhode Island are posted on the Rhode Island Vendor Information Program Website (www.purchasing.ri.gov).

4.2A. ARRA SUPPLEMENTAL TERMS AND CONDITIONS. Contracts and sub-awards funded in whole or in part by the American Recovery and Reinvestment Act of 2009. Pub.L.No. 111-5 and any amendments thereto, such contracts and sub-awards, shall be subject to the Supplemental Terms and Conditions For Contracts and Sub-awards Funded in Whole or in Part by the American Recovery and Reinvestment Act of 2009. Pub.L.No. 111-5 and any amendments thereto located on the Division of Purchases website at www.purchasing.ri.gov.

4.3. EQUAL EMPLOYMENT OPPORTUNITY. Compliance certificate and agreement procedures will apply to all awards for supplies or services valued at \$10,000 and more. Minority Business Enterprise policies and procedures, including subcontracting opportunities as described in Title 37 Chapter 14.1, of the Rhode Island General Laws, also apply.

Revised: 12/20/2011

4.4. PERFORMANCE BONDS. Where indicated, successful bidder must furnish a 100% performance bond and labor and payment bond for contracts subject to Title 37 Chapters 12 and 13 of the Rhode Island General Laws. All bonds must be furnished by a surety company authorized to conduct business in the State of Rhode Island. Performance bonds must be submitted within 21 calendar days of the issuance of a tentative notice of award.

4.5. DEFAULT and NON-COMPLIANCE. Default and/or non-compliance with the RIVIP requirements and any other aspects of the award may result in withholding of payment(s), contract termination, debarment, suspension, or any other remedy necessary that is in the best interest of the state.

4.6. COMPLIANCE. Vendor must comply with all applicable federal, state and local laws, regulations and ordinances.

4.7. SPRINKLER IMPAIRMENT AND HOT WORK. The Contractor agrees to comply with the practices of the State's insurance carrier for sprinkler impairment and hot work. Prior to performing any work, the Contractor shall obtain the necessary information for compliance from the Risk Management Office at the Department of Administration or the agency for which work will be performed.

SECTION 5 – CERTIFICATIONS AND DISCLOSURES
ALL CONTRACT AWARDS ARE SUBJECT TO THE FOLLOWING DISCLOSURES & CERTIFICATIONS
Offerors must respond to every disclosure statement.

A person authorized to enter into contracts must sign the offer and attest to the accuracy of all statements.

Indicate Yes (Y) or No (N):

- _____ 1. Has your firm (or any principal) been subject to any of the following findings by the Federal Government, the State of Rhode Island or any other jurisdiction? Suspension, Debarment, Indictment, Criminal Conviction. CIRCLE APPROPRIATE ITEM(S).
- _____ 2. Has your firm (or any principal) been fined more than \$5000 for a single violation by the Rhode Island Department of Environmental Management for violation of Rhode Island Wetlands law?
- _____ 3. I/we certify that I/we will immediately disclose, in writing, to the Chief Purchasing Officer any potential conflict of interest, which may occur during the course of the engagement authorized pursuant to this contract.
- _____ 4. I/we acknowledge that, in accordance with Chapter 37-2-54(c) of the Rhode Island General Laws "no purchase or contract shall be binding on the state or any agency thereof unless approved by the Department [of Administration] or made under general regulations which the Chief Purchasing Officer may prescribe", including change orders and other types of contracts and under State Purchasing Regulation 8.2.1.1.2, "any alleged oral agreement or arrangements made by a bidder or contractor with any agency or an employee of the Office of Purchases may be disregarded and shall not be binding on the state".
- _____ 5. I/we certify that the above vendor information is correct and complete.
- _____ 6. I/we certify that I/we or my/our firm possesses all licenses required by Federal and State laws and regulations as they pertain to the requirements of the solicitation and offer made herein and shall maintain such required license(s) during the entire course of the contract resulting from the offer contained herein and should my/our license lapse or be suspended, I/we shall immediately inform the Rhode Island State Purchasing Agent in writing of such circumstance.
- _____ 7. I/we certify that I/we will maintain required insurance during the entire course of the contract resulting from the offer contained herein and should my/our insurance lapse or be suspended, I/we shall immediately inform the Rhode Island State Purchasing Agent in writing of such circumstance.
- _____ 8. I/we certify that I/we understand that falsification of any information herein or failure to notify the Rhode Island State Purchasing Agent as certified herein may be grounds for suspension, debarment and/or prosecution for fraud.
- _____ 9. I/we acknowledge that the provisions and procedures set forth in this three-page form apply to any contract arising from this offer.
- _____ 10. I/we acknowledge that I/we understand the State's Purchasing Laws (37-2 of the General Laws of Rhode Island) and Purchasing Regulations and General Terms and Conditions available at the Rhode Island Division of Purchases Website (www.purchasing.ri.gov) apply as the governing conditions for any contract or purchase order I/we may receive from the State of Rhode Island, including the offer contained herein.
- _____ 11. **NEW REVISED REQUIREMENT-IMPORTANT!!!** I/we hereby acknowledge that I/we understand that effective January 1, 2012 all public works related project bids or proposals exceeding SEVEN HUNDRED FIFTY THOUSAND (\$750,000) dollars, inclusive of all proposed alternates, must include a "public copy" as required by RI Gen Laws § 37-2-18(j) and the State Procurement Regulations. It is further understood that any bid or proposal in excess of SEVEN HUNDRED FIFTY THOUSAND (\$750,000) dollars which does not include a copy for public inspection shall be deemed to be non-responsive.

RIDOT Highway and Bridge Public Works related projects utilizing Quest Lite program only – Effective immediately, submission to the Division of Purchases of a duplicate original of a vendor's Quest Lite compatible electronic copy on a readable compact disk shall satisfy the statutory "public copy" requirements. Quest Lite software is defined in the Division of Purchases "State Procurement Regulations" §12.102.05 (Preparation of Proposal).

For further information, please see R.I Gen. Laws § 37-2-18(j) and specific instructions at www.purchasing.ri.gov .

IF YOU HAVE ANSWERED "YES" TO QUESTIONS #1-2 OR IF YOU ARE UNABLE TO CERTIFY YES TO ITEMS #3-11 OF THE FOREGOING, PROVIDE DETAILS/EXPLANATION IN AN ATTACHED STATEMENT. INCOMPLETE CERTIFICATION FORMS SHALL BE GROUNDS FOR DISQUALIFICATION OF OFFER.

Signature below commits vendor to the attached offer and certifies (1) that the offer has taken into account all solicitation amendments, (2) that the above statements and information are accurate and that vendor understands and has complied with the requirements set forth herein. When delivering offers in person to One Capitol Hill, vendors are advised to allow at least one hour additional time for clearance through security checkpoints.

Vendor's Signature (Person authorized to enter into contracts; signature must be in ink.)

Date

Print Name and Title of company official signing offer
Revised: 12/20/2011

July 13, 2012

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF TRANSPORTATION
RHODE ISLAND CONTRACT NO.2012-CH-050
FEDERAL-AID PROJECT NO. FAP Nos: STP-AWDA(025)

ADA - Metacom Avenue (Readvertise)

METACOM AVENUE (STATE ROUTE 136) FROM THE BRISTOL TOWN LINE TO NORTH OF ARLINGTON
AVENUE
CITY/TOWN OF Warren
COUNTY OF BRISTOL

NOTICE TO PROSPECTIVE BIDDERS

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

A. Proposal Addition/Deletion

1. Proposal Pages

Delete Page P-21 in its entirety and replace it with Page P-21 (R-1) attached to this Addendum No. 1. The Addendum date has been added.

B. Specification Change/Addition

1. Special Provisions / Contract Specific

a. Page CS-2

Delete Page CS-2 in its entirety and replace it with Page CS-2 (R-1) attached to this Addendum No. 1. A sentence was added for coordination with Verizon.

b. Page CS-5

Remove Page CS-5 in its entirety and replace it with Page CS-5 (R-1) attached to this Addendum No. 1. The section regarding loam and seeding was removed. The time for work to be performed after the notice to proceed has been changed.

c. CS Appendices

Add CS Appendix A, CS Appendix B, CS Appendix C, CS Appendix D and CS Appendix E attached to this Addendum 1. The CS Appendices have been added to the contract.

2. Special Provisions / Job Specific

a. Page JS-ii

Delete Page JS-ii in its entirety and replace it with Page JS-ii (R-1) attached to this Addendum No. 1. A Special Provision, Code T15, Sign Inventory has been added to the contract.

b. Page JS-2

Delete Page JS-2 in its entirety and replace it with Page JS-2 (R-1) attached to this Addendum No. 1. An interim completion date has been added.

c. Page JS-13

Delete Page JS-13 in its entirety and replace it with Page JS-13 (R-1) attached to this Addendum No. 1. Winter shutdown provisions have been added.

d. Page JS-35

Remove Page JS-35 in its entirety and replace it with Page JS-35 (R-1) attached to this Addendum No. 1. The fuel prices have been adjusted.

e. Page JS-39, Page JS-40 and Page JS-41

Remove Pages JS-39, Page JS-40 and Page JS-41 in their entirety and replace them with JS-39 (R-1), Page JS-40 (R-1) and Page JS-41 (R-1) attached to this Addendum No. 1. The Fiber Optic Splice Manhole Detail has been edited.

f. Pages JS-49 and JS 50

Add Pages JS-49 and JS-50 attached to this Addendum No. 1. A Special Provision, Code T15, Sign Inventory has been added to the contract.

C. Drawings/Plans - Change/Addition

1. Sheet V1_025

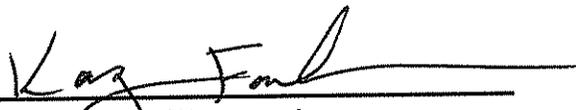
Delete Sheet V1_025 in its entirety and replace it with sheet V1_025 (R-1). A note was added to the plan.

2. Sheet V1_026

Delete Sheet V1_026 in its entirety and replace it with sheet V1_026 (R-1). A note was added to the plan.

3. Sheet V1_028

Delete Sheet V1_028 in its entirety and replace it with sheet V1_028 (R-1). A note was added to the plan.



RI Department of Transportation
Chief Engineer

Revised: 2/19/2002

Total or gross sum of bid for Rhode Island Contract Number: 2012-CH-050

Federal-Aid Project Number(s): STP-AWDA(025)

WRITTEN IN WORDS:

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

COMPLETION DATE(S)

DESCRIPTION	DATE
Substantial Completion Date	August 13, 2013
Bid-Opening Date	July 20, 2012
Advertise Date	June 29, 2012

THE BIDDER ACKNOWLEDGES RECEIPT OF THE FOLLOWING:

ADDENDA	DATE POSTED	DOCUMENT(S)	PAGE
NO.1	7/11/2012	1. Status Certification for: Debarment, Eligibility, Indictments, Convictions or Civil Judgements	1
		2. Anti-Collusion Certificate	2
		4. DBE Affirmative Action Certification	3 - 9
		3. Disclosure of Lobbying Activities	

aware that not all utility companies subscribe to the Dig Safe Program. It is the Contractor's responsibility to ensure that all utility companies have been notified and all utilities have been marked prior to commencing their work. Any damage to existing utilities shall be replaced or repaired to the satisfaction of the Engineer at no additional cost to the State. The contractor shall contact DIG-SAFE (1-800-344-7233) prior to commencing with construction.

The Contractor shall schedule the construction so as to allow for a coordinated site and utility effort. Upon award, the Contractor shall notify the lead utilities relative to his anticipated start date. Immediately following the preconstruction conference, the Contractor shall initiate survey layout required for the utilities.

The Contractor shall coordinate with and provide control elevations to VERIZON's contractor, who will be responsible for adjusting telephone manholes to grade. No separate payment or schedule downtime will be considered for this work.

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

Mr. Thomas Capobianco
National Grid-Electric
280 Melrose Street
Providence, RI 02901-1438
401-784-7362, 401-245-8713

Mr. Ronald Robillard
State Highway Coordinator
Verizon Communications
85 High Street
Pawtucket, RI 02903
401-727-9538

Mr. James Paulette
National Grid - Gas
40 Sylvan Road, 3rd Floor, West Wing
Waltham, MA 02451
Cell: 401-465-8580

Ms. Caroline Wells
Town Planning Director
514 Main Street
Warren, RI 02885
401-245-2469

Mr. Eric Johnson, Construction Manager
Verizon Business
85 High Street
Pawtucket, RI 02903
617-590-2641

Mr. John Massed, Director
Warren Department of Public Works
21 Birch Swamp Road
Warren, RI 02885 401-245-0200

Mr. David Komeiga
Plant Manager
Warren Wastewater Treatment Plant
427 Water Street
Warren, RI 02885

Mr. David Velilla
Utility Coordinator
Cox Communications
9 J.P. Murphy Highway
West Warwick, RI 02893
401-615-1284

Chief Peter T. Achilli
Warren Police Department
1 Joyce Street
Warren, RI 02885
401-245-1311

Mr. Raymond Johnson
Bristol Country Water Authority
450 Child Street
Warren, RI 02885
401-245-2033 Ext. 29

Chief Alexander R. Galinelli
Warren Fire Department
1 Joyce Street
Warren, RI 02885
401-245-7600

- C. At no time shall the sidewalks on both sides of a given roadway segment be simultaneously out of service.
- D. All layout of handicap ramps shall be approved by the Resident Engineer in writing prior to the permanent placement of new or reset curb and new concrete sidewalks. Acceptance or rejection of the proposed layout will be provided to the Contractor within 24 hours of notification
- E. Sidewalk near intersections shall be placed after the installation and written acceptance from the Engineer of the handicap ramp curb items.
- F. The contractor's responsibility for the work shall include the protection from the public at large, all concrete pours, by means and methods the contractor deems necessary until such work has sufficiently cured to prevent pedestrian and vehicular traffic as outlined in Section 905.03.3.g of the Rhode Island Standard Specification for Road and Bridge Construction, Amended December 2010 Edition, with all addenda. No separate payment shall be made for the protection of concrete pours as described as it is incidental to the pay items associated with this work.

If the Engineer determines that concrete work has not been protected as noted above it shall be repaired/replaced by the Contractor at no additional cost to the State.

- G. This project includes isolated sidewalk and curb improvements on Bristol Ferry Road in Portsmouth, R.I. (See General Plan No. 12). All work in Portsmouth, except seeding, shall be performed within sixty (60) days of receiving Notice-to-Proceed.

7. **MOBILIZATION**

Mobilization will be paid in accordance with Section 936 of the Rhode Island Standard Specification for Road and Bridge Construction, Amended December 2010 Edition, with all addenda.

8. **WORK DAY RESTRICTIONS**

Site Specific Restrictions:

The Contractor will be restricted from performing work between STA 162+00 LT and 163+00 LT between the hours of 6:00am to 10:00am on any day. In addition to this construction restriction, full public access to the property must be maintained during these hours. Restrictions during other times are outlined in the Transportation Management Plan.

Any deviation from the requirements stated here or detailed in these specifications as well as any deviations from the approved construction work sequence and time schedule, must be submitted to the Engineer in writing for approval.

**RHODE ISLAND CONTRACT NO. 2012-CH-050
FEDERAL AID PROJECT NO. STP-AWDA (025)**

General Provisions – Contract Specific

**Appendix A
Contractor Submittal List**

APPENDIX A

LIST OF SHOP DRAWINGS AND SUBMITTALS

The Contractor's attention is called to the following list of submittals for Job Specific pay items under this Contract.

This is not a comprehensive list of ALL required submittals. The Contractor shall study the plans and specifications for the submittal requirements on both Job Specific Items and on Work Items addressed in the Rhode Island Standard Specifications for Road and Bridge Construction, amended December 2010, and subsequent revisions.

It is the Contractor's responsibility to ensure that all submittals are made in a timely manner.

<u>Item No.</u>	<u>Description</u>
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206.9901	Inlet Sediment Control
201.9908	Remove and Stockpile Hydrant
701.9901	Install BCWA Hydrant
712	Water Valve Gate Box, Water Curb Stop Box and Gas Gate Box
714.9901	Adjust BCWA Fire Hydrant to Grade.
901.9901	Guardrail End Treatment – Energy Absorbing Terminal
942.9901	T05.9901 Fiber Optic Handhole
T11.2010	Traffic Signal Standard, 10 Ft. Std. 19.4.0, Aluminum Pedestal Pole and Foundation
T13.9901	Global Positioning Satellites (GPS) Clock Assembly

**RHODE ISLAND CONTRACT NO. 2012-CH-050
FEDERAL AID PROJECT NO. STP-AWDA (025)**

General Provisions – Contract Specific

**Appendix B
Transportation Management Plan**



Accessibility Improvements to Metacom Avenue (Route 136)
 Project Name: Warren and Bristol, RI
 RI Design Contract No(s): 95105
 RI Construction Contract No(s): 2011-CH-063
 Submission: ADV Date: 12/12/2011

PROJECT INFORMATION

Brief Project Description: This project will improve accessibility under the American with Disabilities Act guidelines on Metacom Avenue (Rte 136) in the Town of Warren. It also includes pedestrian facilities at the Metacom Ave/Bayview Ave intersection in Bristol. The work includes replacing sidewalks and handicap ramps, upgrading signage, pedestrian signal heads and ADA compliant pushbuttons. This project will also include isolated sidewalk improvements to Bristol Ferry Road in Portsmouth.

General Work Limits: Metacom Avenue from Rosa Boulevard to the Bristol Town Line. Metacom Avenue at Bayview Avenue intersection in Bristol. Bristol Ferry Road from Turnpike Avenue to Boyds Lane, in Portsmouth, RI.

WORKZONE LOCATIONS			
ROADWAY NAME or INTERSECTION	FROM	TO	APPROX. LENGTH
Metacom Ave (RI 136), in Warren	Rosa Boulevard	Bristol Town Line	5,000 feet
Metacom Ave (RI 136)/Bay View Ave, in Bristol			N/A
Bristol Ferry Road (Rte 114)	Turnpike Street	Boyds Lane	6,500 feet

General Project Schedule*: The project is expected to be advertised in early 2012, and substantial completion of the project is expected to be by November 2012.

*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

Holiday Restrictions: No lane and/or shoulder closures allowed after 1:00 PM on the Friday preceding a holiday weekend.

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 1:00 PM on the day before the holiday.
No lane and/or shoulder closures allowed on the holiday.

DR. MARTIN LUTHER KING JR., MEMORIAL DAY, VICTORY DAY, LABOR DAY, COLUMBUS DAY & VETERANS DAY
No lane and/or shoulder closures allowed on Saturday and Sunday.
No lane and/or shoulder closures allowed on Monday.

THANKSGIVING DAY
No lane and/or shoulder closures allowed after 1:00 PM on the Wednesday preceding Thanksgiving Day.
No lane and/or shoulder closures allowed on Thanksgiving Day.
No lane and/or shoulder closures allowed on Friday and Saturday.
No lane and/or shoulder closures allowed on Sunday.

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 should 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 Work Zone Traffic Control Devices, and where applicable, the other transportation management strategies identified above. He/she should also document work zone-related feedback and/or legitimate complaints that are received from the public through phone calls, in person, in writing, or by electronic mail.

If at any time (1) a significant deviation from any of the strategies included in the TMP (e.g., the use of an alternate construction sequence) is desired by one or more members of the project implementation team, (2) field observations and/or data suggest that impacts to road users are or will be unacceptable, or (3) one or more performance requirements established in the TMP are not being met in the field, the RIDOT TMP Implementation Manager shall report the situation to his/her supervisor or Division/Section/Unit manager. The supervisor / manager will coordinate with the State Traffic Engineer, the Deputy Chief Engineer, 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 Deputy Chief Engineer, the State Traffic Engineer, and the Chief Engineer must approve of the revised TMP prior to their implementation.

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

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

Other Requirements:

TMP APPROVALS

All approvals must be obtained prior to start of work

DEPUTY CHIEF ENGINEER	STATE TRAFFIC ENGINEER	CHIEF ENGINEER
Signature: <i>Frank Swartz</i>	Signature: <i>[Signature]</i>	Signature: <i>Kaz Funk</i>
Date: <i>2/16/12</i>	Date: <i>2/16/12</i>	Date: <i>2/16/12</i>
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: _____

MINIMUM NUMBER OF LANES & SHOULDERS TO REMAIN OPEN TO TRAFFIC										
Location	Time of Day		Day of Week							
	From	To	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
Metacom Ave in Warren	0:00:00	6:00:00	ALL	1L	1L	1L	1L	1L	1L	ALL
	6:00:00	9:00:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
	9:00:00	15:00:00	ALL	1L	1L	1L	1L	1L	1L	ALL
	15:00:00	18:00:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
Metacom Avenue at Bayview Avenue in Bristol	0:00:00	6:00:00	ALL	1L	1L	1L	1L	1L	1L	ALL
	6:00:00	9:00:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
	9:00:00	15:00:00	ALL	1L	1L	1L	1L	1L	1L	ALL
	15:00:00	18:00:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
Bristol Ferry Road in Portsmouth	0:00:00	9:00:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
	9:00:00	15:00:00	ALL	1L	1L	1L	1L	1L	1L	ALL
	15:00:00	0:00:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL

LEGEND

ALL	All travel lanes and shoulders shall remain open to traffic
1L	A minimum of one 11-foot wide travel lane in each direction 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.

**RHODE ISLAND CONTRACT NO. 2012-CH-050
FEDERAL AID PROJECT NO. STP-AWDA (025)**

General Provisions – Contract Specific

**Appendix C
Pavement Cores**

Rhode Island Department of Transportation
Operations - Materials Section

Contract Number 95105 Project Statewide ADA Compliance - Metacom Avenue
 FAP STP-AWDA(001) Cored By RIDOT / Materials Coring Crew Date: 10/8/2010
 City/Town Warren Limits Bristol Town Line to Arlington Avenue

Comments

LOCATION		Offset	Depth Description	SURFACE		BINDER		BASE		GRAVEL		
Number	Station Description			Depth	Description	Depth	Description	Depth	Description	TOTAL DEPTH	FROM	TO
01	14' n of pole 66-50	4'	Rt Curb	2.00 "	Class I-1	1.50 "	Binder	6.00 "	Asphalt	9.50 "	9.5 "	21.5 "
02	15' s of pole 64	4'	Rt Curb	1.75 "	Class I-1	2.00 "	Binder	5.00 "	Asphalt	8.75 "		
03	10' s of pole 61-50	4'	Rt Curb	2.25 "	Class I-1	2.00 "	Binder	5.75 "	Asphalt	10.00 "	10 "	22 "
04	32' n of pole 59	4'	Rt Curb	3.75 "	Class I-1	5.00 "	Binder	5.00 "	Asphalt	13.75 "		
05	28' n of pole 57	3'	Rt Curb	3.00 "	Class I-1	3.25 "	Binder	6.50 "	Asphalt	12.75 "	12.75 "	24.75 "
06	5' n of pole 54-1	6'	Rt Curb	2.75 "	Class I-1	5.75 "	Binder	5.00 "	Asphalt	13.50 "		
07	9' n of pole 52	5'	Rt Curb	2.75 "	Class I-1	5.00 "	Binder	5.75 "	Asphalt	13.50 "	13.5 "	25.5 "
08	6' s of pole 49	5'	Rt Curb	2.75 "	Class I-1	5.00 "	Binder	4.00 "	Asphalt	11.75 "		
09	21' s of pole 46	4'	Rt Curb	2.75 "	Class I-1	2.25 "	Binder	3.75 "	Asphalt	8.75 "	8.75 "	20.75 "

Bok 10/27/10
 MATERIALS ENGINEER / DATE

P.E. Final Special Projects

Rhode Island Department of Transportation
Operations - Materials Section

Contract Number 95105 Project Statewide ADA Compliance - Metacom Avenue
 FAP STP-AWDA(001) Cared By RIDOT / Materials Coing Crew Date: 10/18/2010
 City/Town Warren Limits Bristol Town Line to Arlington Avenue

Comments

LOCATION		SURFACE	BINDER	BASE	GRAVEL	
Number Station Description	Depth Description				Depth Description	TOTAL DEPTH
10 nb 26' s of pole 14-50	6' Rt Curb	3.00 " Class I-1	4.00 " Binder	3.25 " Asphalt	10.25 "	
11 nb on transverse crack thru I-1	4' Rt Curb	3.50 " Binder	1.25 " Sand Mix	2.50 " Class I-1	10.25 "	22.25 "
12 nb 14' n of pole 39	4' Rt Curb	2.00 " Binder	1.25 " Sand Mix	3.25 " Asphalt	9.75 "	
13 nb 12' s of pole 36	3' Rt Curb	3.00 " Class I-1	2.25 " Binder	3.00 " Sand Mix	8.25 "	20.25 "
14 nb 36' n of pole 34	4' Rt Curb	3.75 " Binder	1.50 " Class I-1	5.00 " Concrete	13.75 "	
15 nb transverse crack full depth	8' Rt Curb	4.50 " base south side	1.50 " sand mix south side	6.00 " concrete north side	14.25 " 8.25 "	26.25 " 20.25 "
16 nb full depth crack	10' Rt Curb	8.75 " Class I-1			8.75 "	
17 sb crack thru I-1	4' Rt Curb	2.75 " Class I-1	1.50 " Sand Mix		4.25 "	16.25 "

B.D. 11/19/10
MATERIALS ENGINEER / DATE

P.E. Final Special Projects

Rhode Island Department of Transportation
Operations - Materials Section

Contract Number 95105
 Project Statewide ADA Compliance - Metacom Avenue
 FAP STP-AWDA(001)
 Cored By RIDOT / Materials Coring Crew Date: 10/8/2010
 City/Town Warren
 Limits Bristol Town Line to Arlington Avenue

Comments

LOCATION		Depth Description	SURFACE Depth Description	BINDER Depth Description	BASE Depth Description	TOTAL DEPTH	GRAVEL	
Number Station Description	OffSet						FROM	TO
18	35' n of pole 32	6' Rt Curb	2.50 " Class I-1	1.75 " Binder	9.25 " Asphalt	13.50 "		
19	84' n of pole 34-50	7' Rt Curb	3.50 " Class I-1	2.50 " Binder	6.00 " Asphalt	12.00 "	12 "	24 "
20	15' n of pole 36	6' Rt Curb	3.00 " Class I-1		10.00 " Asphalt	13.00 "		
21	66' n of pole 39	2' Rt Curb	6.50 " Class I-1			6.50 "	6.5 "	18.5 "
22	88' n of pole 42	8' Rt Curb	1.75 " Binder	1.50 " Class I-1	8.25 " Asphalt	14.00 "		
23	49' s of pole 43	8' Rt Curb	2.50 " Class I-1	2.25 " Binder	5.00 " Asphalt	9.75 "	9.75 "	21.75 "
24	35' s of pole 46	5' Rt Curb	2.00 " Class I-1	3.50 " Binder	5.75 " Asphalt	11.25 "		
25	83' n of pole 50	2' Rt Curb	3.00 " Class I-1	2.25 " Binder	6.30 " Asphalt	11.75 "	11.75 "	23.75 "
26	3' s of pole 52	5' Rt Curb	3.25 " Class I-1	1.50 " Binder	9.00 " Asphalt	13.75 "		

P.E. Final Special Projects *Bsk* 10/21/10 MATERIALS ENGINEER / DATE

Rhode Island Department of Transportation
Operations - Materials Section

Contract Number 95105 Project Statewide ADA Compliance - Metacom Avenue
 FAP STP-AWDA(001) Cored By RIDOT / Materials Coring Crew Date: 10/8/2010
 City/Town Warren Limits Bristol Town Line to Arlington Avenue

Comments

LOCATION		OffSet	Depth Description	SURFACE Depth Description	BINDER Depth Description	BASE Depth Description	GRAVEL		
Number Station Description	TOTAL DEPTH						FROM	TO	
27	27' n of pole 54 sb	0'	Rt Curb	3.50 " Class I-1	2.50 " Binder	7.00 " Asphalt	13.00 "	13"	25"
28	4' n of pole 55 sb	2'	Rt Curb	2.50 " Class I-1		5.50 " Asphalt	8.00 "		
29	24' n of pole 58 sb	2'	Rt Curb	2.25 " Class I-1	2.00 " Binder	7.25 " Asphalt	11.50 "	11.5"	23.5"
30	28' s of pole 60 sb	5'	Rt Curb	2.50 " Class I-1	3.25 " Binder	7.00 "	12.75 "		
31	48' n of pole 63 sb	6'	Rt Curb	2.00 " Class I-1	1.25 " Binder	9.50 " Asphalt	12.75 "	12.75"	24.75"
32	7' s of pole 65 sb	5'	Rt Curb	2.75 " Binder	1.50 " Class I-1	1.00 " Asphalt	7.00 "		

Bob 10/27/10
MATERIALS ENGINEER / DATE

Special Projects

Final

P.E.

Rhode Island Department of Transportation
Operations - Materials Section

Contract Number: 06106
FAP: STP-AWDA(001)
Cored By: *CS*
Comments:

Date Tested: 10/19/10
Date Sampled: 10/8/2010
Location: Statewide ADA Compliance - Metacom

SAMPLE NO.	PERCENT PASSING SIEVE						Soil Class	Remarks
	1/2"	3/8"	#4	#10	#40	#200		
SPECIFICATION	50/85	45/80	40/75	-----	0/45	0/10		
01	79.0%	74.5%	62.6%	50.9%	31.6%	10.7%	A-1-b	Doesn't Conform
02	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		Doesn't Conform
03	36.4%	32.0%	24.8%	18.9%	8.5%	2.1%	A-1-a	Doesn't Conform
04	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		Doesn't Conform
06	72.9%	67.6%	56.6%	51.2%	21.7%	2.7%	A-1-b	Conforms
06	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		Doesn't Conform
07	32.9%	28.4%	22.4%	17.9%	8.5%	2.0%	A-1-a	Doesn't Conform
08	48.1%	44.3%	36.4%					Doesn't Conform
09	49.1%	44.8%	36.4%	31.8%	15.9%	3.7%	A-1-a	Doesn't Conform
10	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		Doesn't Conform
11	56.3%	52.3%	42.6%	33.7%	15.5%	4.4%	A-1-a	Conforms
12	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		Doesn't Conform
13	45.6%	40.0%	28.8%	22.6%	9.2%	1.6%	A-1-a	Doesn't Conform
14	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		Doesn't Conform
16	44.5%	37.7%	22.7%	12.2%	3.1%	0.7%	A-1-a	Doesn't Conform
16	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		Doesn't Conform
17	36.9%	31.6%	21.0%	13.9%	5.5%	1.1%	A-1-a	Doesn't Conform
18	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		Doesn't Conform
19	42.5%	37.6%	28.7%	22.0%	10.7%	2.8%		Doesn't Conform

B. Mendez 10-26-10
TECHNICIAN / DATE

B. Mendez 10/27/10
MATERIALS ENGINEER / DATE

TECHNICIAN / DATE

p. 1052

Rhode Island Department of Transportation
Operations - Materials Section

Contract Number: 95105

Date Tested:

FAP: STP-AWDA(001)

Date Sampled: 10/8/2010

Cored By:

Location: Statewide ADA Compliance - Metacorn

Comments:

SAMPLE NO.	PERCENT PASSING SIEVE						Soil Class	Remarks
	1/2"	3/8"	#4	#10	#40	#200		
SPECIFICATION	50/85	45/80	40/75	40/75	0/45	0/10		
20	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		Doesn't Conform
21	71.3%	66.1%	55.6%	49.5%	31.5%	5.7%	A-1-b	Conforms
22	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		Doesn't Conform
23	68.3%	64.3%	55.6%	49.9%	32.6%	8.0%	A-1-a	Conforms
24	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		Doesn't Conform
25	69.6%	66.5%	58.9%	53.8%	37.2%	10.4%	A-1-b	Doesn't Conform
26	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		Doesn't Conform
27	41.2%	36.8%	28.0%	21.3%	8.2%	1.6%	A-1-a	Doesn't Conform
28	76.7%	71.8%	59.1%	0.0%	0.0%	0.0%		Doesn't Conform
29	76.7%	71.8%	59.1%	51.3%	31.6%	8.8%	A-1-b	Conforms
30	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		Doesn't Conform
31	69.6%	66.3%	57.4%	51.4%	29.9%	7.3%	A-1-b	Conforms
32	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		Doesn't Conform

all samples either coarse in nature or slightly beyond specification, conform substantially to gravel subbase requirements for design purposes only.

B. Minola 10-26-10
TECHNICIAN / DATE

Bob 10/22/10
MATERIALS ENGINEER / DATE

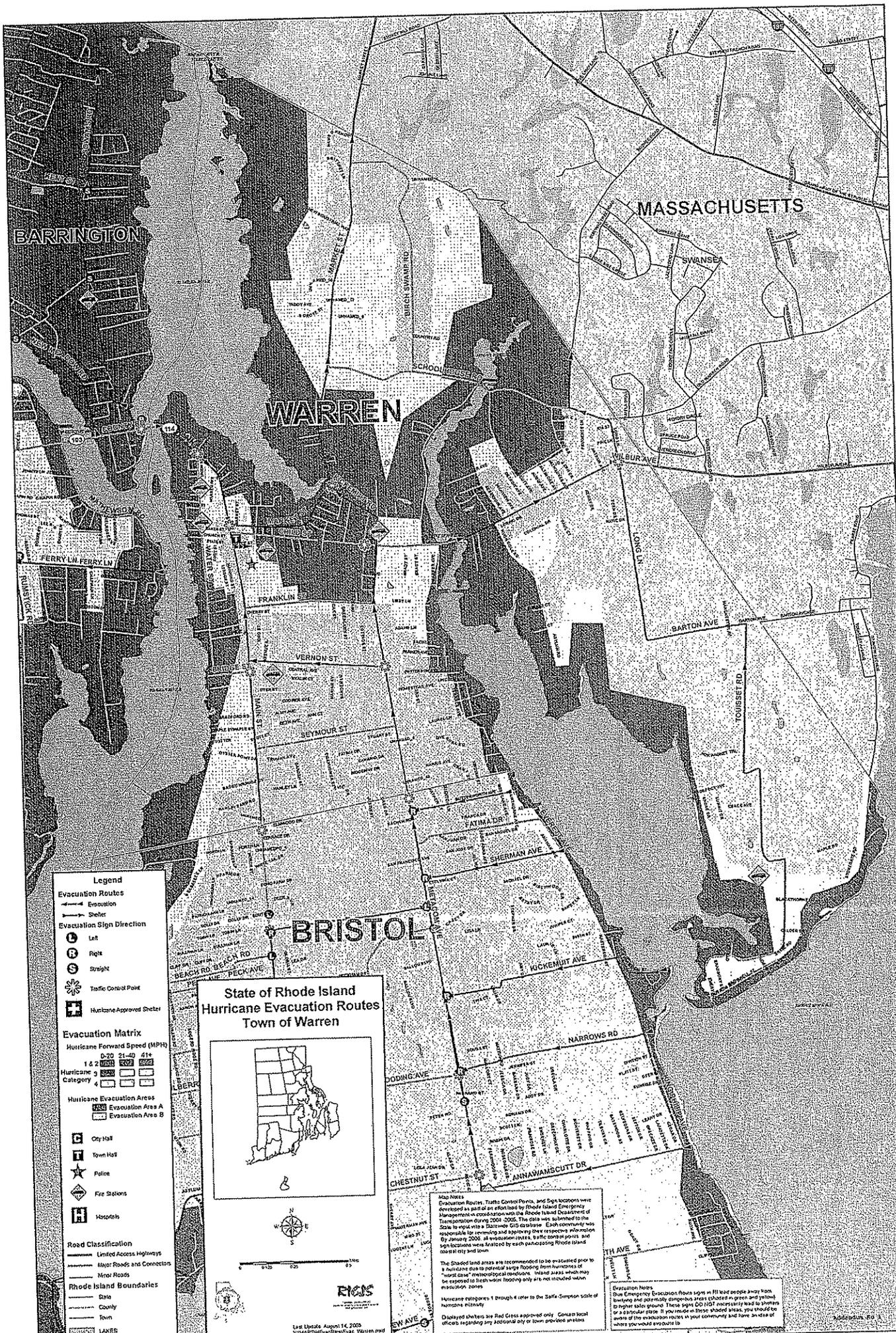
TECHNICIAN / DATE

p. 2 of 2

**RHODE ISLAND CONTRACT NO. 2012-CH-050
FEDERAL AID PROJECT NO. STP-AWDA (025)**

General Provisions – Contract Specific

**Appendix D
Hurricane Evacuation Routes**



Legend

Evacuation Routes
 - Evacuation
 - Shelter

Evacuation Sign Direction
 (L) Left
 (R) Right
 (S) Straight
 Traffic Control Point
 Hurricane Approved Shelter

Evacuation Matrix
 Hurricane Forward Speed (MPH)
 1 & 2 3 & 4 5-20 21-40 41+

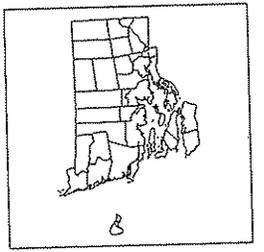
Hurricane Evacuation Areas
 Evacuation Area A
 Evacuation Area B

City Hall
Town Hall
Police
Fire Stations
Hospitals

Road Classification
 Limited Access Highways
 Major Roads and Connectors
 Minor Roads

Rhode Island Boundaries
 State
 County
 Town
 LAKES

**State of Rhode Island
 Hurricane Evacuation Routes
 Town of Warren**



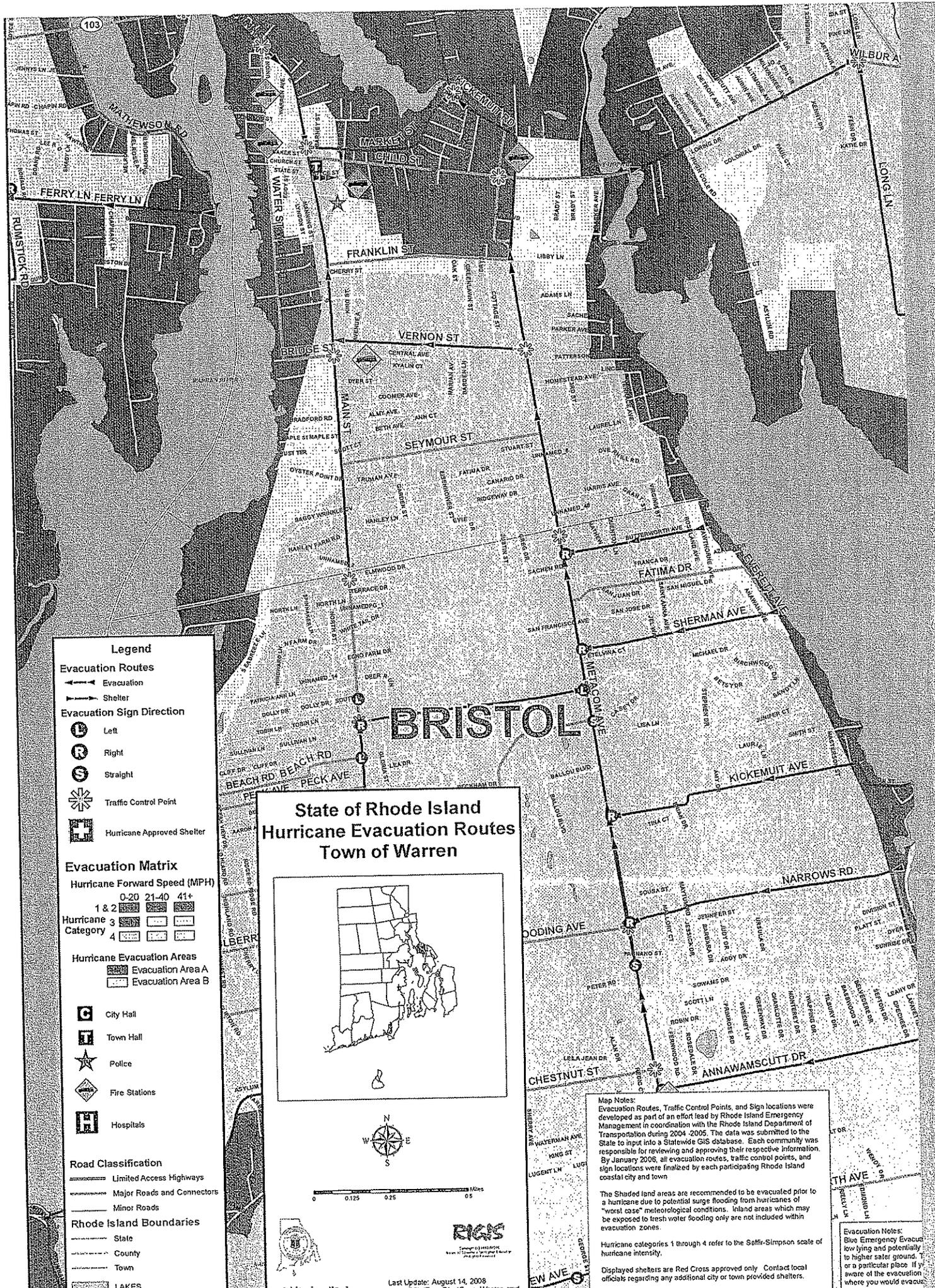
Map Notes
 Evacuation Routes, Traffic Control Points, and Sign locations were developed as part of an effort led by Rhode Island Emergency Management in coordination with the Rhode Island Department of State to comply with a National OIG initiative. Each community was responsible for reviewing and approving their respective information by January 2008. All evacuation routes, traffic control points, and sign locations were finalized by each participating Rhode Island town in city and town.

The shaded land areas are recommended to be evacuated prior to a hurricane due to potential surge flooding from hundreds of "hard core" meteorological forecasts. Island areas which may be exposed to beach erosion flooding only are not included within evacuation zones.

Hazardous materials 1 through 4 refer to the Safe Simpson scale of hurricane intensity.

Designated shelters are Red Cross approved only. Contact local offices regarding any additional city or town provided shelters.

Evacuation Notes
 The Emergency Evacuation flows signs in RI lead people away from buildings and potentially dangerous areas (shaded in green and yellow) to higher safer ground. These signs DO NOT necessarily lead to shelters or a particular place. If you reside in these shaded areas, you should be aware of the evacuation routes in your community and have an idea of where you would evacuate to.



Legend

Evacuation Routes

- Evacuation (arrow pointing left)
- Shelter (arrow pointing right)

Evacuation Sign Direction

- Left (circle with 'L')
- Right (circle with 'R')
- Straight (circle with 'S')

Traffic Control Point (star symbol)

Hurricane Approved Shelter (cross symbol)

Evacuation Matrix

Hurricane Forward Speed (MPH)

	0-20	21-40	41+
1 & 2	[Symbol]	[Symbol]	[Symbol]
3	[Symbol]	[Symbol]	[Symbol]
4	[Symbol]	[Symbol]	[Symbol]

Hurricane Evacuation Areas

- Evacuation Area A (dotted pattern)
- Evacuation Area B (cross-hatch pattern)

Other Symbols:

- City Hall (G)
- Town Hall (H)
- Police (star)
- Fire Stations (diamond)
- Hospitals (H)

Road Classification

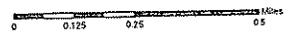
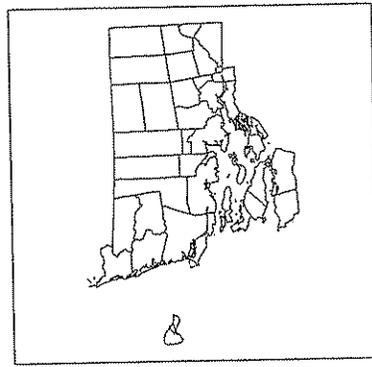
- Limited Access Highways (dashed line)
- Major Roads and Connectors (solid line)
- Minor Roads (dotted line)

Rhode Island Boundaries

- State (dashed line)
- County (dotted line)
- Town (solid line)

LAKES (shaded area)

**State of Rhode Island
Hurricane Evacuation Routes
Town of Warren**



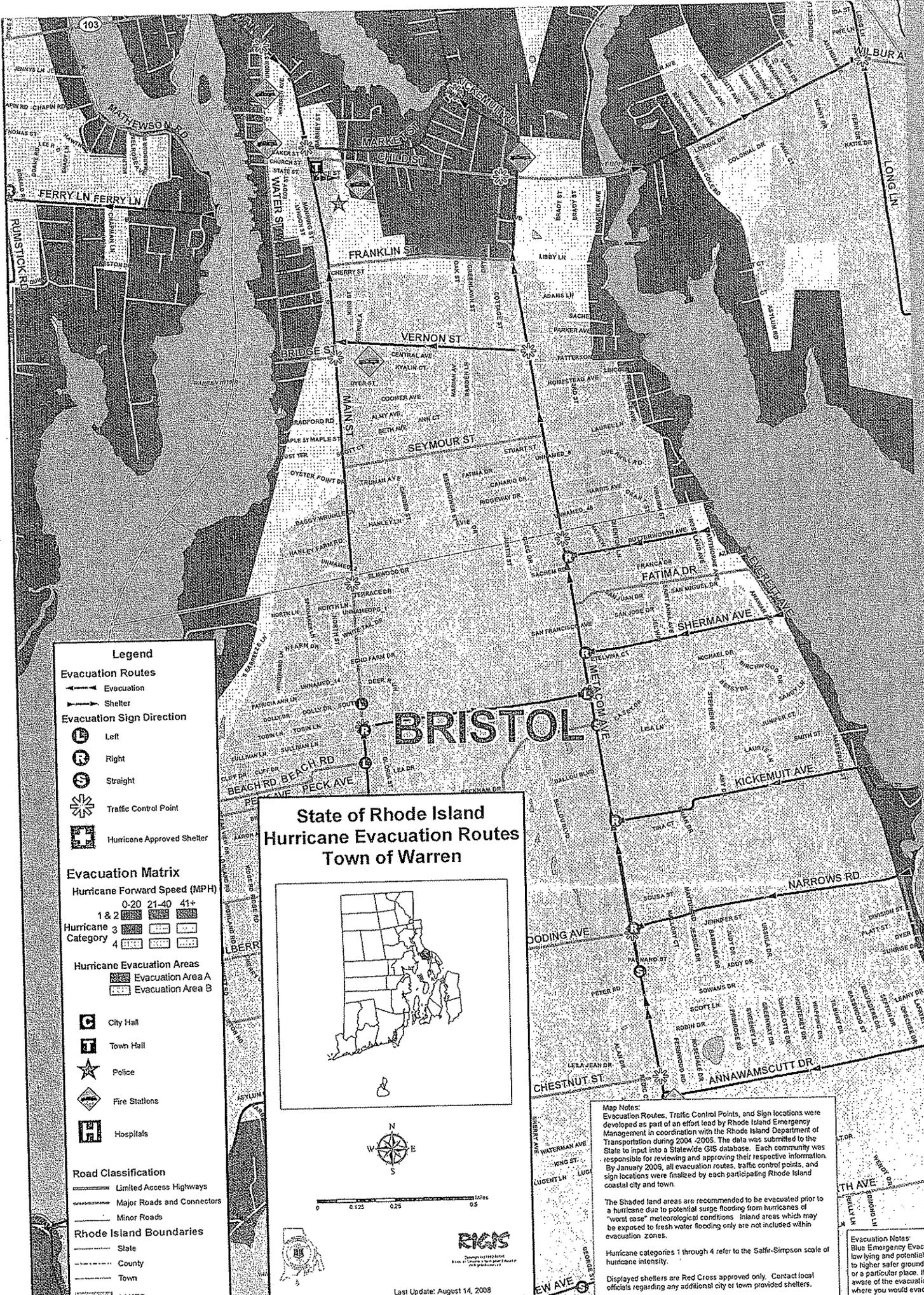
Map Notes:
Evacuation Routes, Traffic Control Points, and Sign locations were developed as part of an effort lead by Rhode Island Emergency Management in cooperation with the Rhode Island Department of Transportation during 2004-2005. The data was submitted to the State to input into a Statewide GIS database. Each community was responsible for reviewing and approving their respective information. By January 2006, all evacuation routes, traffic control points, and sign locations were finalized by each participating Rhode Island coastal city and town.

The Shaded land areas are recommended to be evacuated prior to a hurricane due to potential surge flooding from hurricanes of "worst case" meteorological conditions. Inland areas which may be exposed to fresh water flooding only are not included within evacuation zones.

Hurricane categories 1 through 4 refer to the Saffir-Simpson scale of hurricane intensity.

Displayed shelters are Red Cross approved only. Contact local officials regarding any additional city or town provided shelters.

Evacuation Notes:
Blue Emergency Evacuation routes lead to higher safer ground, or a particular place. If you are aware of the evacuation, where you would evacuate.



Legend

Evacuation Routes

- Evacuation (Arrow with line)
- Shelter (Arrow with square)

Evacuation Sign Direction

- Left (Circle with arrow pointing left)
- Right (Circle with arrow pointing right)
- Straight (Circle with arrow pointing forward)

Traffic Control Point (Starburst symbol)

Hurricane Approved Shelter (Square with 'S')

Evacuation Matrix

Hurricane Category	0-20 MPH	21-40 MPH	41+ MPH
1 & 2	[Pattern]	[Pattern]	[Pattern]
3	[Pattern]	[Pattern]	[Pattern]
4	[Pattern]	[Pattern]	[Pattern]

Hurricane Evacuation Areas

- Evacuation Area A (Dotted pattern)
- Evacuation Area B (Cross-hatched pattern)

Landmarks

- City Hall (Square with 'C')
- Town Hall (Square with 'T')
- Police (Star)
- Fire Stations (Diamond with 'F')
- Hospitals (Square with 'H')

Road Classification

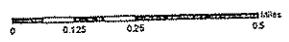
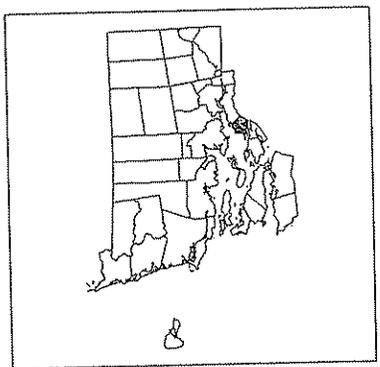
- Limited Access Highways (Thick solid line)
- Major Roads and Connectors (Thin solid line)
- Minor Roads (Dashed line)

Rhode Island Boundaries

- State (Dotted line)
- County (Dashed line)
- Town (Thin solid line)

LAKES (Blue shaded area)

**State of Rhode Island
Hurricane Evacuation Routes
Town of Warren**



Last Update: August 14, 2008
V:\MAPS\EvacRte\Evac_Warren.mxd

Map Notes:
Evacuation Routes, Traffic Control Points, and Sign locations were developed as part of an effort lead by Rhode Island Emergency Management in coordination with the Rhode Island Department of Transportation during 2004 -2005. The data was submitted to the State to input into a Statewide GIS database. Each community was responsible for reviewing and approving their respective information. By January 2006, all evacuation routes, traffic control points, and sign locations were finalized by each participating Rhode Island coastal city and town.

The Shaded land areas are recommended to be evacuated prior to a hurricane due to potential surge flooding from hurricanes of "worst case" meteorological conditions. Inland areas which may be exposed to fresh water flooding only are not included within evacuation zones.

Hurricane categories 1 through 4 refer to the Saffir-Simpson scale of hurricane intensity.

Displayed shelters are Red Cross approved only. Contact local officials regarding any additional city or town provided shelters.

Evacuation Notes:
Blue Emergency Evacuee low lying and potentially to higher safer ground 1 or a particular place. If you aware of the evacuation where you would evacuee

**RHODE ISLAND CONTRACT NO. 2012-CH-050
FEDERAL AID PROJECT NO. STP-AWDA (025)**

General Provisions – Contract Specific

**Appendix E
R.I.D.E.M
RIPDES General Permit**



RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

235 Promenade Street, Providence, RI 02908-5767

TDD 401-222-4462

December 1, 2011

Peter A. Healey, P.E., Chief Civil Engineer
RIDOT – Environmental Resources/Highway Engineering
Two Capitol Hill, Room 226
Providence, RI 02903

RE: **RIPDES Storm Water General Permit for Construction Activity**
Accessibility Improvements To Metacom Ave (Rt.136)
RIPDES No.: RIR100840

Dear Mr. Healey:

Enclosed is your final authorization to discharge storm water associated with construction activity under the Rhode Island Pollutant Discharge Elimination System (RIPDES) Program. The Authorization to Discharge should be attached to your copy of the 2008 RIPDES General Permit for Storm Water Discharge Associated with Construction Activity (2008 Construction General Permit, which you already have on file), and be kept on-site as verification of authorization to discharge. All terms and conditions outlined in the 2008 Construction General Permit must be met. Any permit non-compliance constitutes a violation of Chapter 46-12 of the Rhode Island General Laws of 1956, as amended, and is grounds for enforcement. For future references and inquiry, your permit authorization number is RIPDES No. **RIR100840**.

RIDEM strongly recommends that you obtain written assurances from contractors or subcontractors retained to undertake construction activity that they will comply with all applicable requirements.

If you have any questions regarding the General Permit, you may contact Margarita Chatterton at (401) 222-4700, Extension 7605.

Sincerely,

Eric A. Beck, P.E., Supervising Sanitary Engineer
RIPDES Permitting Program

ec: Annie McFarland, DEM / OWR
Traci Pena, DEM / OWR
Emilie Holland, RIDOT

AUTHORIZATION TO DISCHARGE UNDER THE
RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM
2008 General Permit for Storm Water Discharge Associated with Construction Activity

In compliance with the provisions of Chapter 46-12 of the Rhode Island General Laws, as amended,

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

are authorized to discharge Storm Water Associated with Construction Activity from a facility located at

ADA Improvements to Metacom Ave (RT.136)
North of Arlington Ave to Bristol Town Line
Warren, RI

to receiving waters named

Mt. Hope Bay, Palmer River, Barrington River, Warren River

in accordance with the conditions and requirements set forth in the 2008 General Permit for Storm Water Discharge Associated with Construction Activity.

In accordance with Part I.C.2.c of the 2008 General Permit for Storm Water Discharge Associated with Construction Activity, coverage shall become effective on the date of signature.

Coverage under the General Permit for Storm Water Discharge Associated with Construction Activity and the authorization to discharge should expire at midnight, on September 25, 2013.

The issuance of this authorization does not relieve the permittee from compliance with any other applicable laws or regulations administered by the Department of Environmental Management or any other governmental entity.

Signed this 1st day of January, 2011.



Eric A. Beck, P.E.
Supervising Sanitary Engineer
RIPDES Permitting Program, Office of Water Resources
Rhode Island Department of Environmental Management
Providence, Rhode Island

**RHODE ISLAND CONTRACT NO. 2012-CH-050
FEDERAL AID PROJECT NO. STP-AWDA (025)**

General Provisions – Contract Specific

**Appendix F
Stormwater Pollution Prevention Plan
(SWPPP)**

Stormwater Pollution Prevention Plan

For:

Accessibility Improvements to Metacom Avenue (Route 136)

North of Arlington Avenue to Bristol Town Line

Warren, RI

Owner:

Rhode Island Department of
Transportation
Frank Corrao III, PE
Deputy Chief Engineer
2 Capitol Hill
Providence, RI 02903
401-222-2468 ext. 4202

Operator:

TO BE DETERMINED UPON
CONTRACT AWARD
Insert CONTRACTOR Name
Insert Name
Insert Address
Insert City, State, Zip Code
Insert Telephone Number

SWPPP Prepared By:

Maguire Group Inc.
225 Chapman Street
Providence, RI 02905
401-272-6000

SWPPP Preparation Date:

January 6, 2012

Estimated Project Dates:

Start Date: May 1, 2012

Completion Date: November 15, 2012

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.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I am aware that it is the responsibility of the owner/operator to implement and amend the SWPPP as appropriate in accordance with the requirements of the General Permit.

Frank Conao, PE 4/24/12
Owner Signature: Date
Peter Healey, PE
Acting Chief Civil Engineer
Rhode Island Department of Transportation

Operator Signature: Date

TO BE DETERMINED UPON CONTRACT AWARD

Contractor Representative Name: _____

Contractor Title: _____

Contractor Company Name: _____

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- Attachment A – General Location Map
- Attachment B – Site Plans
- Attachment C – Inspection Reports
- Attachment D – Corrective Action Log
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- Attachment F – Post Construction BMP Inspection Log
- Attachment G – Amendments Log

INTRODUCTION

This Storm Water Pollution Prevention Plan (SWPPP) has been prepared for the State of Rhode Island Department of Transportation (RIDOT) pursuant to the Rhode Island Department of Environmental Management (RIDEM) Rhode Island Pollutant Discharge Elimination System (RIPDES) Program regulations (amended February 5, 2003). Pursuant to Rule 32 of the RIPDES Regulations, projects proposing to discharge storm water must seek authorization under a RIPDES General Permit. In accordance with the General Permit for Storm Water Discharge Associated with Construction Activity (General Permit), projects that disturb one (1) or more acres require the preparation of a SWPPP and RIDEM authorization following RIPDES review of a Notice of Intent (NOI). This SWPPP provides guidance for complying with the terms and conditions required under the General Permit, however, this document does not negate or eliminate the need to understand and adhere to all applicable RIPDES regulations.

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, to ensure the SWPPP remains compliant with the General Permit. Records of these changes must be added to the amendment log attached to the SWPPP, and to the site plans as "red-lined" drawings.

It is the responsibility of the RIDOT 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. (RIPDES Construction General Permit – Section II.A.)

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.***

The RIDOT 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 Natural Resources Unit at 401-222-2023.

Additional resource help may be found at the EPA NPDES SWPPP website:
<http://www.epa.gov/npdes/swpppguide>

and the EPA National Menu of Stormwater Best Management Practices:
<http://cfpub.epa.gov/npdes/stormwater/menuofbmps>

SECTION 1: SITE DESCRIPTION

RIPDES Construction General Permit – Section IV.E.1

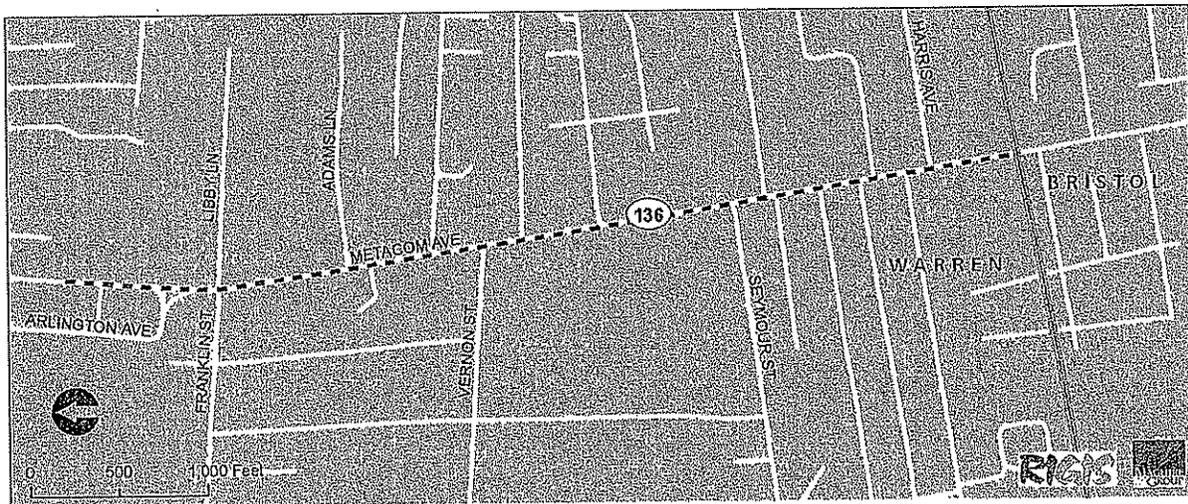
1.1 Project/Site Information

Project/Site Name:

- Accessibility Improvements to Metacom Avenue (Route 136)
- Warren, RI

Project Street/Location:

- From north of Arlington Avenue in Warren, RI to the Bristol Town Line.



Approximate Project Location (Dashed Line)

1.2 Nature and Sequence of Construction Activity

Provide a narrative describing the nature and estimated timetable for the construction activities, including an anticipated sequence of major activities of the project, and the ultimate intended use of the project. (IV.E.1.b)

- The project will improve existing sidewalks, clean/repair existing catch basins, and install new signage along Metacom Avenue. Some improvements will be made to the intersection of Arlington and Metacom Avenues. Major activities of the project will be installing sediment and erosion controls, sawcutting pavement, reconstructing catch basins, rebuilding sidewalks, installing signage and removing sediment and erosion controls.

Estimated Project Start Date:	September 2011
Estimated Project Completion Date:	September 2012
Estimated Number of Months:	12 months

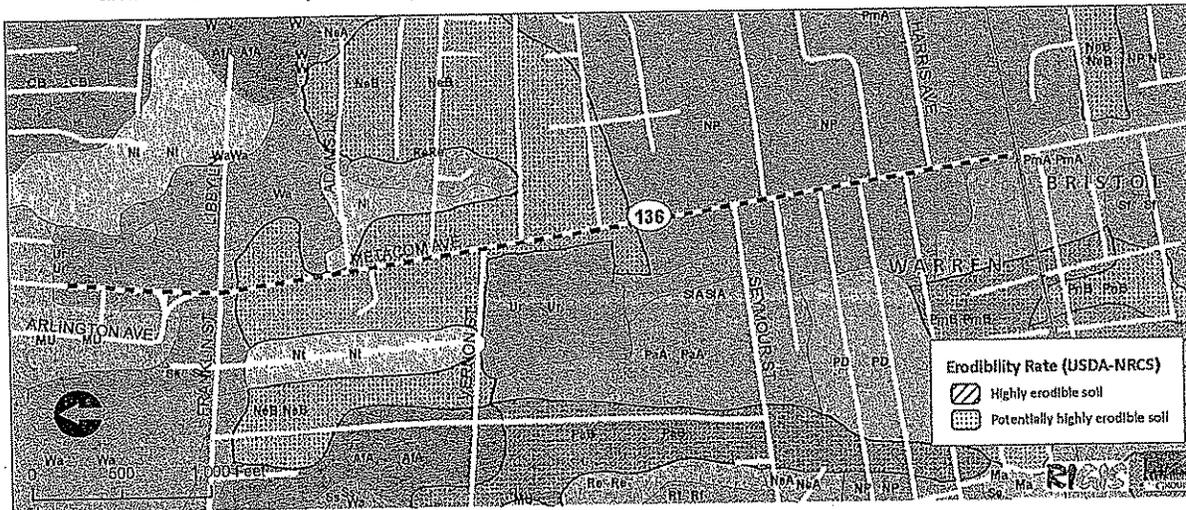
1.3 Existing and Proposed Soils, Slopes, Vegetation, and Drainage Patterns

Provide description of pre- and post-construction site conditions

Soil type(s):

Provide a description of the soils at the site and of each soils' erodibility hazard as listed in the U.S. Soil Conservation Service's Soil Survey of Rhode Island (1981). (IV.E.1.e)

- Newport silt loam (NeB) with slopes that range from 3 to 8 percent: Permeability is moderate or moderately rapid in the surface layer and subsoil and slow or very slow in the substratum. Runoff is medium. These soils are classified by USDA-NRCS as potentially highly erodible. See map below.
- Newport Urban land complex (NP): Slopes are about 6 percent but range from 1 to 15 percent. Permeability is moderate or moderately rapid in the surface layer and subsoil and slow or very slow in the substratum. Runoff is medium to rapid.
- Ninigret fine sandy loam (Nt): Slopes range from 0 to 3 percent but are dominantly less than 2 percent. Permeability is moderately rapid in the surface layer and subsoil and rapid in the substratum. Runoff is slow.
- Sudbury sandy loam (Ss) soils with slopes that range from 0 to 3 percent: Permeability is moderately rapid in the surface layer and subsoil and rapid in the substratum. Runoff is slow.
- Urban Land (UR) soils are areas of development with buildings, paved roads, and parking lots. Slopes range from 0 to 10 percent, but are dominantly 0 to 5 percent. These soils include areas of Udorthents, excessively drained Merrimac soils; well drained Canton, Charlton, and Newport soils; and moderately well drained Pittstown, Sudbury, and Sutton soils.
- Walpole sandy loam (Wa) are nearly level. Permeability is moderately rapid in the surface layer and subsoil and rapid or very rapid in the substratum. Runoff is slow.



Project Area Soils

Slopes:

Provide a description of the slopes that will be impacted by construction activities (grading or filling)

- Existing: Grading and filling will not take place as part of this project; therefore slopes will not be impacted by these activities.

- Proposed: Existing slopes will not change and will not be impacted.

Vegetation/Impervious Area:

Provide a description of the vegetative and impervious areas that will be impacted by construction activities

- Existing: Work will be done within the right-of-way of Metacom Avenue to the back of the sidewalk. Minor vegetated areas at the back of sidewalk will be impacted.
- Proposed: Areas behind sidewalk impacted by proposed work will be repaired with seed and loam.

Drainage Patterns:

Provide a description of the drainage patterns that will be impacted by construction activities

- Existing: NA
- Proposed: NA

1.4 Construction Site Estimates

Provide construction site estimates of the total area of the site and the total area of the site that is expected to undergo soil disturbance (IV.E.1.c) and the calculated pre-construction and post-construction runoff coefficients for the site. (IV.E.1.d)

The following are estimates of the construction site:

Total Project Area	1.53 acres
Construction Site Area to be disturbed	1.53 acres
Percentage impervious area before construction	86 %
Runoff coefficient before construction	NA
Percentage impervious area after construction	86 %
Runoff coefficient after construction	NA

1.5 Receiving Waters

List the waterbody(s) that will receive stormwater from the site, including streams, rivers, lakes, coastal waters, and wetlands. Note any stream crossings, if applicable.

List the storm sewer system or drainage system that stormwater from the site could discharge to and the waterbody(s) that it ultimately discharges to. (III.A.7)

If any of the waterbodies above are impaired (303(d) listed) and/or subject to Total Maximum Daily Loads (TMDLs), list the pollutants causing the impairment and any specific requirements in the TMDL(s) that are applicable to construction sites.

Visit <http://www.dem.state.ri.us/programs/benviron/water/quality/rest/index.htm> for more information and a list of Rhode Island impaired waters and TMDL Studies. See also the RIDEM Notice of Intent instructions (Section IV).

List/description of receiving waters:	Mt Hope Bay, Palmer River, Barrington River, Warren River
List/description of storm sewer systems:	Town of Warren

List/description of 303(d)/TMDL waters:

None

1.6 Allowable Non-Storm Water Discharges

Discharges not comprised of storm water are allowed under the General permit but are limited to the following: discharges which result from the washdown of vehicles where no detergents are used; external building washdown where no detergents are used; the use of water to control dust; fire fighting activities; fire hydrant flushings; natural springs; uncontaminated groundwater; lawn watering; potable water sources including waterline flushings; irrigation drainage; pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled materials have been removed) and where detergents are not used; and foundation or footing drains where flows are not contaminated with process materials such as solvents, or contaminated by contact with soils where spills or leaks of toxic or hazardous materials has occurred. If any of these discharges may reasonably be expected to be present and to be mixed with storm water discharges, they must be specifically listed here. (IV.E.1.g)

Are there allowable non-storm water discharges on or near the project area?

Yes No

If yes, list the sources of allowable non-storm water discharge

- Water from dust control.

1.7 Existing Data of Known Discharges from Site

List and provide existing data (if available) on the quality of any known discharges from the site (IV.E.1.h).

Are there known storm water discharges from the project area?

Yes No

Describe how this determination was made:

- Field observations.

If yes, list discharges and locations:

- NA

Is there existing data on the quality of the known storm water discharges?

Yes No

If yes, provide data:

- NA

1.8 Endangered Species Certification/Natural Heritage Areas

Review any/all applicable federal, state, local, or tribal endangered/threatened species requirements to determine if there are endangered species on or near the construction site.

Are endangered or threatened species on or near the project area?

FEDERAL: Yes No STATE: Yes No

Describe how this determination was made:

- Data available through the Rhode Island Geographic Information System (RIGIS) Program showed no endangered or threaten species or critical habitats on or near the project area.

If yes, describe the species and/or critical habitat:

- NA

If yes, describe or refer to documentation which determines the likelihood of an impact on identified species and/or habitat and the steps taken to address that impact.

- NA

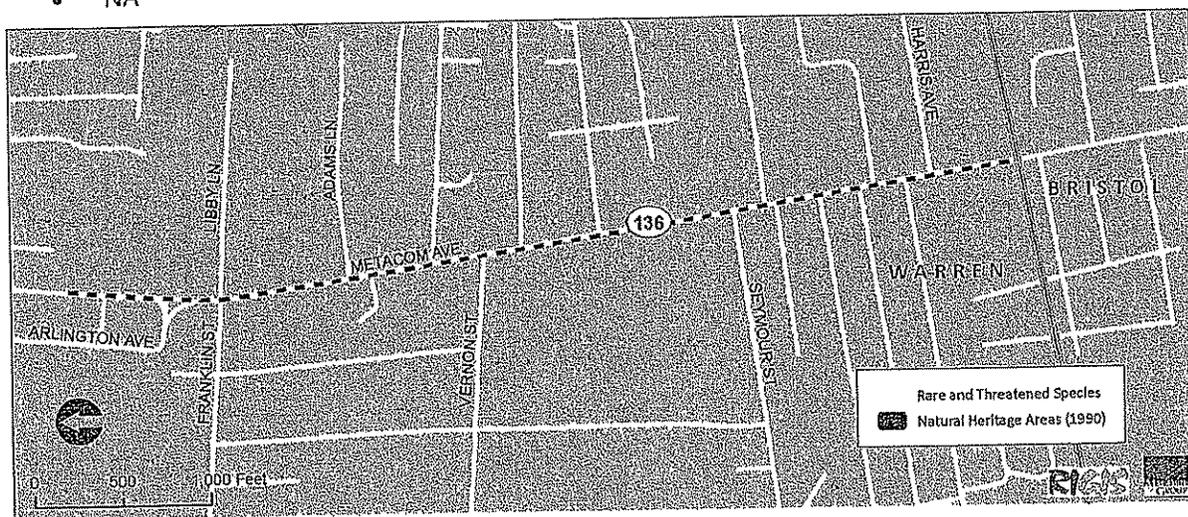
Review RIDEM Natural Heritage Area maps to determine if there are natural heritage areas on or near the construction site. See the RIDEM Notice of Intent instructions (Section V).(III.A.8)

Are there any Natural Heritage Areas on or near the construction site?

Yes No

If yes, describe or refer to documentation which determines the likelihood of an impact on this area and the steps taken to address that impact.

- NA



Natural Heritage Areas and Rare and Threatened Species near the Project Site

1.9 Historic Preservation/Cultural Resources

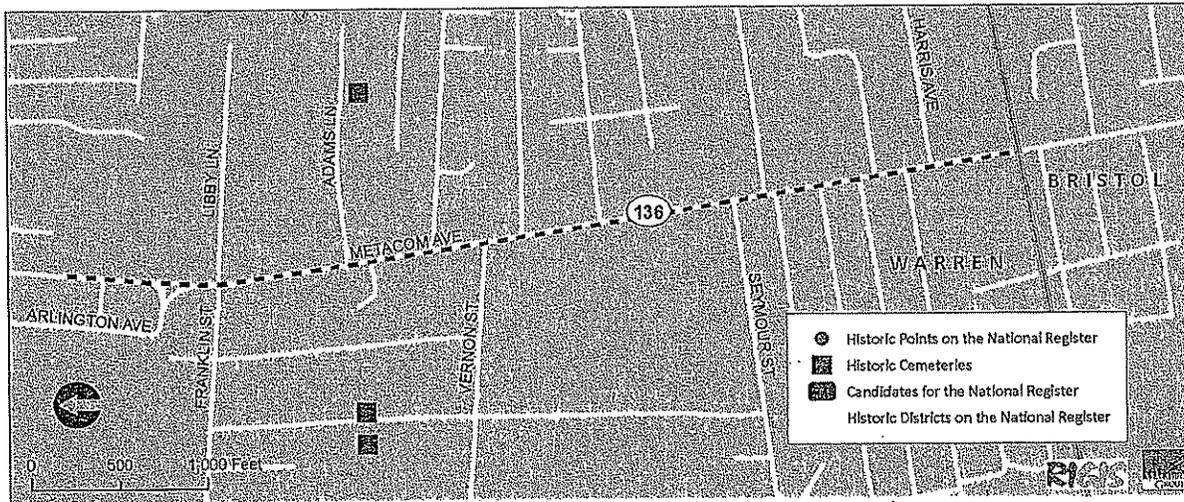
Review any/all applicable federal, state, local, or Native American historic preservation laws and regulations and coordinate with the RIDOT-Cultural Resources Unit (RIDOT-CRU) to determine if there are historic properties, historic cemeteries or cultural resources on or near the construction site.

Are there any historic properties, historic cemeteries or cultural resources on or near the construction site?

Yes No

Describe how this determination was made and summarize RIDOT-CRU review comments:

- RIGIS data and the Warren Historical Survey (April 1975) were used to determine presents of historic and cultural resources (see map below).



Historic and Cultural Resources in the vicinity of the Project Area

If yes, describe or refer to documentation which determines the likelihood of an impact on this historic property, historic cemetery or cultural resource and the steps taken to address that impact including any conditions or mitigation measures that were approved by other parties.

- NA

1.10 Site Features and Sensitive Areas to be Protected

Describe unique site features including streams, stream buffers, wetlands, specimen trees, natural vegetation, steep slopes, or highly erodible soils, historic properties, historic cemeteries or cultural resources that are to be preserved.

Describe unique features and measures to protect them:

- There are no unique features in the project area.

1.11 Potential Sources of Pollution

Provide a description of potential sources of pollution that may reasonably be expected to affect the quality of storm water discharges from the site (i.e. exposed, un-stabilized soil stockpiles, clearing and grubbing operations, vehicle tracking, concrete washouts, diesel fuel, etc.) (IV.E.1.f)

Anticipated on this Project	Operation/ Location	Stormwater Pollutants
No	Clearing, grading, excavating, and unstabilized areas	Sediment; Trash/Debris
No	Construction Entrance	Sediment
No	Soil Stockpiles	Sediment
No	Paving operations	Sediment; Trash/Debris
Yes	Concrete washout and waste	Heavy metals; pH; Trash/Debris
No	Structure construction/ painting/ cleaning	Nutrients; pH; Trash/Debris; Toxic chemicals
Yes	(Sidewalk) Demolition and debris disposal	Sediment; Trash/Debris
No	Dewatering operations	Sediment; Nutrients
No	Drilling and blasting operations	Sediment; pH; Trash/Debris
Yes	Material delivery and storage	Sediment; Nutrients; Heavy metals; pH; Pesticides/Herbicides; Oil/Grease; Trash/Debris; Toxic chemicals
Yes	Material use during building process	Nutrients; heavy metals; pH; pesticides/herbicides; oil/grease; trash/debris; toxic chemicals
Yes	Solid waste/ trash/ debris	trash/debris; toxic chemicals
No	Hazardous waste	heavy metals; pH; pesticides/herbicides; oil/grease; toxic chemicals
No	Contaminated spills	Nutrients; heavy metals; pH; pesticides/herbicides; oil/grease; toxic chemicals
No	Sanitary/septic waste	Nutrients; pH; Bacteria/Viruses; toxic chemicals
Yes	Vehicle/equipment fueling and maintenance	Oil/Grease; Toxic chemicals
No	Vehicle/equipment use and storage	Oil/Grease; Toxic chemicals
Yes	Landscaping operations	Sediment; Nutrients; Trash/Debris

1.12 Site Plans

Attach site maps. For most projects, a series of site maps is recommended. The first should show the undeveloped site and its current features. An additional map or maps should be created to show the developed site or the major phases of development. (IV.E.1.a)

These maps must include:

- Total area of development
- Total area of soil disturbance
- Pre- and post-development drainage patterns
- Approximate slopes anticipated after the completion of major grading activities
- The location of all erosion and sedimentation storm water control structures, including the location of any temporary or permanent retention or detention basins or other water quality control structures
- The location of all impervious structures
- The location and name of the receiving waters or separate storm sewer system and the ultimate receiving waters
- Location of environmentally sensitive features/areas to be preserved (Section 1.10)
- Locations of all non-structural BMPs (material storage areas, concrete washouts, dumpsters, stockpiles, etc.)
- Locations of all waters of the State, including wetlands
- Locations of all endangered species habitats, historic sites, and natural heritage areas
- Direction(s) of stormwater flow
- Areas that will not be disturbed
- Locations and timing of stabilization measures
- Locations of material, waste, and/or equipment storage areas
- Locations of storm drain inlets and outfalls

SECTION 2: EROSION AND SEDIMENTATION CONTROLS

RIPDES Construction General Permit – Section IV.E.2.a

The purpose of erosion controls is to prevent sediment from moving onto, around, or off of the construction site. Properly installed and maintained erosion controls are the primary defense against sediment pollution.

Sedimentation controls are a second line of defense against moving sediment. The purpose is to prevent moving sediment from leaving the construction site and entering environmentally important areas.

Runoff controls are used to slow the velocity of concentrated water flows. By intercepting and diverting stormwater runoff to a stabilized outlet or treatment BMP, erosion and sedimentation are reduced.

Provide a description of measures that will be installed before and during the construction project to control pollutants in storm water discharges that will occur at the site. Such measures may include: perimeter controls, stock pile covering, storm drain inlet protection, check dams, and temporary seeding.

Include RIDOT Standard Specification or Standard Detail reference with maintenance requirements.

Please note: The operator should initiate appropriate vegetative practices 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. Section IV.E.2.a.i

2.1 Minimize Disturbed Area and Protect Natural Features and Soil

As far as is practicable, existing vegetation shall 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 shall 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.

Describe the areas that will be disturbed with each phase of construction and the BMPs (signs, fences, etc.) that will be used to protect those areas that should not be disturbed. Describe natural features identified earlier and how each will be protected during construction activity. Also describe how topsoil will be preserved.

- Areas disturbed will be existing sidewalks and catch basins.

2.2 Phase Construction Activity

Proper sequencing of construction activities is essential to maximize the effectiveness of erosion and sediment control measures. Construction sequencing and timing of construction activities will include:

1. Installation of all erosion and sediment controls that are required to be in place and functional before any earthwork begins. This shall be done in accordance with Sections 201, 206 through 211 of the RIDOT Standard Specifications.
2. Upon acceptable completion of site preparation and installation of erosion and sediment controls, site construction activities may commence. Routine inspection and maintenance and/or modification of erosion and sediment controls while earthwork is being done is required.
3. Upon commencement of site construction activities, the operator shall initiate appropriate stabilization practices 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.

4. Final stabilization of any disturbed areas after earthwork has been completed.

Describe the intended construction sequencing and timing of major activities, including grading activities, road and utility installation, and building phases. The first phase should include all erosion and sediment controls that are required to be in place before earthwork begins. Phase II through XX may include erosion and sediment controls required while earthwork is being done. The final phase should include final stabilization BMPs.

- Install erosion and sedimentation controls
- Install tree protection devices
- Sawcut pavement
- Reconstruct catch basins
- Clean/flush existing catch basins and drainage pipes
- Excavate and grade sidewalks and driveway openings
- Form sidewalk and concrete driveways
- Place concrete sidewalk and driveways
- Install guardrail and end transition
- Install signing
- Place loam borrow/final grading
- Seed/mulch disturbed areas
- Remove erosion and sedimentation controls

2.3 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 portions will not be active within the 21-day time-frame. Proper phasing of clearing and grubbing activities shall include temporary stabilization techniques for areas cleared and grubbed that will not be active within the 21 day time frame.

No undisturbed areas shall 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 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 RI 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.

Clearing/Grubbing shall not take place during a rain event if erosion is likely to occur; nor shall it occur if a rain event is forecasted and appropriate erosion controls can not be installed prior to the storm and in accordance with section 201, 206 through 211 of the RIDOT standard specifications.

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 shall install erosion control measures that are indicated on the Plans or as directed by the Engineer. Such erosion control measures shall 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.

2.4 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.

List the weather gauge station that will be utilized to monitor weather conditions on the construction site. See www.wunderground.com or www.weather.gov for available stations.

- <http://www.wunderground.com/cgi-bin/findweather/hdfForecast?query=warren%2C+ri>
- East of Town Common, Bristol

2.5 Initiating Stabilization Practices

As per RIPDES General Permit (Construction Activity) Section IV.E.2.a: Upon completion and acceptance of site preparation and initial installation of erosion and sediment controls the operator shall 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.

2.6 Control Stormwater Flowing Onto and Through the Project

Structural BMPs are 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 shall be installed as depicted on the approved plan set and in accordance with applicable RIDOT Standard Specifications.

If BMPs fail to control erosion and sedimentation, then alternative control measures &/or methods may be substituted, with approval of the RIDOT Resident Engineer and the RIDOT Natural Resources Unit. Additional control measures that may be used, upon approval, include compost filter socks, fiber rolls, gravel bag berms, slope drains, check dams, and riprap.

Describe structural practices (i.e., diversions, berms, ditches, storage basins) including design specifications and details 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.

- Not applicable.

2.7 Stabilize Soils

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).

If the stabilization BMPs fail and erosion occurs, then alternative control measures &/or methods may be substituted, with approval of the RIDOT Resident Engineer and the RIDOT Natural Resources Unit.

Describe controls (i.e., temporary seeding with native vegetation, hydroseeding, etc.) including design specifications and details that will be implemented to stabilize exposed soils where construction activities have temporarily or permanently ceased. Also describe measures to control dust generation. Use of impervious surfaces for stabilization should be avoided whenever possible.

- Hydroseeding will be used to control dust generation and sedimentation of exposed soils as needed.

2.8 Protect Slopes

Slopes that will have concentrated stormwater flow must be protected using the BMPs depicted on the approved plan set and in accordance with RIDOT Standard Specifications Sections 202, 206 – 211, or any method approved of by the RIDOT Resident Engineer and the RIDOT Natural Resources Unit.

If the slope stabilization BMPs fail and erosion occurs, then alternative control measures &/or methods may be substituted, with approval of the RIDOT Resident Engineer and the RIDOT Natural Resources Unit. Additional control measures that may be used, upon approval, include compost filter socks, fiber rolls, gravel bag berms, erosion control mats/blankets, and temporary vegetative cover.

Describe controls (i.e., erosion control blankets, tackifiers, etc.) including design specifications and details that will be implemented to protect all slopes.

- Slopes will not be impacted as part of the project, but baled hay or silt fences will be installed around disturbed areas to minimize runoff.

2.9 Protect Storm Drain Inlets

Storm drain inlet protection measures prevent soil and debris from entering storm drain inlets. These measures are usually temporary and are implemented before a site is disturbed. ALL stormwater inlets &/or catchbasins that are operational during construction and may receive sediment-laden stormwater flow from the construction site must be protected using any of the BMPs outlined in the RIDOT Standard Specifications Section 209 – Storm Drain Protection, or any method approved of by the RIDOT Resident Engineer and the RIDOT Natural Resources Unit.

Please note: **Haybale/Silt Fence protection measures DO NOT work on paved roadways.**

Additional control measures that may be used, upon approval, include compost filter socks, fiber rolls, gravel bag berms, or catch basin inserts.

Describe controls (i.e., inserts, rock-filled bags, or block and gravel, etc.) including design specifications and details that will be implemented to protect all inlets receiving stormwater from the project during the entire duration of the project.

- Cleaning and Flushing the entire drainage system including all outfalls, structures and pipes shall be performed prior to the installation of Filter Fabric. This work is to be done prior to the start of construction.
- Inlet Protection / Filter Fabric will be installed in catch basins containing frame and grates to prevent sediment from entering the existing drainage system. They will remain in place until flushed sediments are removed.

2.10 Protect Storm Drain Outfalls

Outfall protection is necessary to prevent scour or severe erosion at discharge points. Outfalls often have high velocity, high volume flows, and require strong materials that will withstand the forces of the water. The function of these BMPs is to protect the soil surface, reduce velocity, and promote infiltration. Storm drain outlet BMPs also offer a last line of protection against sediment entering environmentally sensitive areas.

All stormwater outfalls that may discharge sediment-laden stormwater flow from the construction site must be protected using the BMPs depicted on the approved plan set in accordance with Standard Specification Section 209, or any method approved of by the RIDOT Resident Engineer and the RIDOT Natural Resources Unit.

Additional temporary control measures that may be used, upon approval, include compost filter socks or fiber rolls.

Describe controls (i.e., inserts, rock-filled bags, or block and gravel, etc.) including design specifications and details that will be implemented to protect outlets discharging stormwater from the project during the entire duration of the project.

- Cleaning and Flushing the entire drainage system including all outfalls, structures and pipes shall be performed prior to the installation of Haybales / Silt Fencing. Protection of Drain Outlets is to be in place prior to cleaning and flushing. This work is to be done prior to the start of construction.
- Haybales / Silt Fencing will be installed around outfalls to contain sediment and prevent scour or severe erosion at discharge points.

2.11 Establish Perimeter Controls and Sediment Barriers

Perimeter controls shall be installed, and maintained, as depicted on the approved plan set and in accordance with RIDOT Standard Specifications Section 201, 206 – 211, Perimeter Erosion Controls (Installation) and Section 212 – Maintenance and Cleaning of Erosion and Pollution Controls (maintenance).

If the Baled Hay &/or Silt Fence erosion checks fail to contain the sediment on-site, then alternative control measures may be substituted, with approval of the RIDOT Resident Engineer and the RIDOT Natural Resources Unit. Such measures may include (but are not limited to) compost filter socks or straw wattles (fiber rolls).

Describe structural practices (i.e., silt fences or fiber rolls) including design specifications and details to filter and trap sediment before it leaves the construction site.

- Haybales / Silt Fencing will be installed around the project perimeter where called for in the plans to contain sediment and prevent it from washing offsite.

2.12 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.

A sediment trap or basin shall be installed, and maintained, as depicted on the approved plan set and in accordance with RIDOT Standard Specifications - Sections 208, 210 (installation) and Section 212 - Maintenance and Cleaning of Erosion and Pollution Controls (maintenance).

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. A sediment trap or basin shall be installed, and maintained, as depicted on the approved plan set and in accordance with RIDOT Standard Specifications - Sections 208, 210 (installation) and Section 212 - Maintenance and Cleaning of Erosion and Pollution Controls (maintenance).

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.

Describe sediment control practices (i.e., sediment trap or sediment basin), including design specifications and details (volume, dimensions, outlet structure) that will be implemented at the construction site to retain sediments on-site. Describe dewatering practices that will be implemented if water must be removed from an area so that construction activity can continue.

- Dewatering is not an activity associated with this project.

2.13 Additional BMPs

Describe additional BMPs that may not fit into the above categories.

- No additional BMPs will be used.

2.14 Construction Site Erosion and Sediment Control BMPs

Complete the following table for each location where Erosion and Sediment Control BMPs will be utilized. This table is to be used as part of the SWPPP Inspection Report - please fill out accordingly.

It is expected that this table will be amended as needed throughout the construction project.

Location/Station	BMP Description/ Standard Spec Ref	Maintenance Requirement	Phase
Around Catch Basins	Filter Fabric	212.03.1 Sediment accumulated on fabric; break through or significant strain of barrier	Throughout entire project
Perimeter	Baled Hay Erosion Checks/Silt Fence. 206.01.3/9.3.0	212.03.1 Sediment accumulated greater than half way up bale; break through or significant strain of barrier	Entire project

SECTION 3: GOOD HOUSEKEEPING BMPS

RIPDES Construction General Permit – Section IV.E.2.c

The purpose of good housekeeping is to prevent daily construction activities from causing pollution.

Describe the key good housekeeping and pollution prevention measures that will be implemented to control pollutants in stormwater. Examples BMPs include the proper management of waste, material handling and storage, and equipment/vehicle fueling/washing/maintenance operations.

Include RIDOT Standard Specification or Standard Detail reference with maintenance requirements.

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 RIDOT Resident Engineer and the RIDOT Natural Resources Unit. Construction accesses shall 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 shall 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 of the construction site by any vehicles leaving the site. Additional control measures that may be used, upon approval, include a vehicle washing station and daily street sweeping.

The Operator shall 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.

Describe location(s) of vehicle entrance(s) and exit(s), procedures to remove accumulated sediment off-site (i.e., vehicle tracking), and stabilization practices (i.e., stone pads and/or wash racks) to minimize off-site vehicle tracking of sediments and discharges to stormwater. IV.E.2.c.i

- The construction office site entrance and exit will be stabilized to reduce vehicle tracking of sediments. Paved areas will be swept daily to remove excess mud, dirt or rock tracked from the site.

3.2 Waste Disposal

Building materials and other construction site wastes must 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 shall be disposed of in a manner consistent with State Law and/or regulations.

- A waste collection area shall be designated on the site that does not receive a substantial amount of runoff from upland areas and does not drain directly to a waterbody or storm drain.
- All waste containers shall be covered to avoid contact with wind and precipitation.
- Waste collection shall be scheduled frequently enough to prevent containers from overflowing.

- All construction site wastes shall be collected, removed, and disposed of in accordance with applicable regulatory requirements and only at authorized disposal sites.
- Equipment and containers shall be checked for leaks, corrosion, support or foundation failure, or other signs of deterioration. Those that are found to be defective shall be immediately repaired or replaced.

Describe measures (i.e., trash disposal, sanitary wastes, recycling, and proper material handling) to prevent the discharge of solid materials. All types of waste generated at the site shall be disposed of in a manner consistent with State Law and/or regulations. IV.E.2.c.ii

- Waste disposal will be handled through the use of dumpsters and trash receptacles as needed and will meet all local and state solid waste management regulations. The dumpster will be emptied as needed and the trash will be hauled to a state approved landfill. All personnel will be instructed regarding the correct procedure for waste disposal. Notices stating these procedures will be posted at the construction site by the construction superintendent. The individual who manages the day-to-day operations will be responsible for seeing that these procedures are followed.

3.3 Spill Prevention and Control Plan

Spills and leaks shall be avoided through frequent inspection of equipment and material storage areas. Heavy equipment and other vehicles shall be routinely inspected for leaks and repaired as necessary. Material storage areas shall be routinely inspected for leaky containers, open containers, or improper storage techniques that may lead to spills or leaks. Appropriate cleanup procedures and supplies shall be available on-site.

Spills shall be cleaned up immediately and following proper response procedures and in accordance with any applicable regulatory requirements. At no time shall 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 shall not take place within regulated wetlands or buffer zone areas. Designated areas shall be approved by the RIDOT Resident Engineer.

Describe all areas where potential spills can occur, and their accompanying drainage points, and describe the spill prevention and control plan to reduce the chance of spills, stop the source of spills, contain and clean up spills, dispose of materials contaminated by spills, and train personnel responsible for spill prevention and control. IV.E.2.c.iii

- Construction personnel will call the Warren Fire Department at 401-245-7600 or 911 when spills occur (or other emergencies). Notices stating this practice will be posted at the construction site by the construction superintendent. The individual who manages the day-to-day operations will be responsible for seeing that these procedures are followed. Spill kits will be on hand to contain and clean spills associated with equipment used on site.

3.4 Control of Allowable Non-Storm Water Discharges

For the allowable non-stormwater discharge(s) associated with construction industrial activity identified in Section 1.6, describe controls and measures that will be implemented at those sites to minimize pollutant contamination. IV.E.2.c.iv

- Silt socks will be used around the perimeter of the work area to control runoff from dust control watering.

3.5 Establish Proper Building Material Staging Areas

Stock pile management consists of procedures and practices designed to minimize or eliminate the discharge of stockpiled material (soil, topsoil, base material, rubble) from entering drainage systems or water courses.

Stockpiles of any 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 be seeded and ringed with RI STD 9.1.0 to stabilize (or RIDOT approved equivalent: berms, dikes, fiber rolls, compost socks, sandbag, gravel bags).

If soil stockpiles are not stabilized with vegetation, then they must 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 shall be approved by the RIDOT Resident Engineer.

Describe construction materials expected to be stored on-site and procedures for storage of materials to minimize exposure of the materials to stormwater. IV.E.2.c.v

- Material stored on site will include curbing, drainage structures, guardrails, and signage and will be covered, as needed, to reduce sedimentation in stormwater runoff.

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 shall be designated on the Approved Plans, or approved of by the RIDOT Resident Engineer. Any washout area shall not be within regulated wetlands or buffer zone areas, or within 50-feet of the storm drain system.

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 shall any material (concrete, paint, chemicals) be washed into storm drains, open ditches, streets, streams, wetlands, or any environmentally sensitive area.

Describe location(s) and controls to minimize the potential for stormwater pollution from washout areas for concrete mixers, paint, stucco, etc. IV.E.2.c.v

- Concrete washout areas will be designated by the contractor and resident engineer at the onset of the project. Areas shall be contained to minimize stormwater runoff.

3.7 Establish Proper Equipment/Vehicle Fueling and Maintenance Practices

Vehicle fueling shall not take place within regulated wetlands or buffer zone areas, or within 50-feet of the storm drain system. Designated areas shall be depicted on the Approved Plans, or shall be approved by the RIDOT Resident Engineer.

Vehicle maintenance and washing shall occur off-site, or in designated areas depicted on the Approved Plans or approved of by the RIDOT Resident Engineer. Maintenance or washing areas shall not be

within regulated wetlands or buffer zone areas, or within 50-feet of the storm drain system. Maintenance areas shall be clearly designated, and berms, sandbags, or other barriers shall be used around the perimeter of the maintenance area to prevent storm water contamination.

Construction vehicles shall be inspected frequently for leaks. Repairs shall take place immediately. Disposal of all used oil, antifreeze, solvents and other automotive-related chemicals shall be according to applicable regulations; at no time shall any material be washed down the storm drain or in to any environmentally sensitive area.

Describe equipment/vehicle fueling and maintenance practices that will be implemented to control pollutants to stormwater (e.g., secondary containment, drip pans, spill kits, etc.) IV.E.2.c.v

- Some equipment fueling will take place near the project area. Equipment may include backhoes, excavators, and bobcats. Spill kits will be available to immediately contain spills or leaks. Equipment will be inspected daily to identify and repair leaks, as needed. Waste products from repairs will be disposed of according to state regulations.

3.8 Dust Control

Dust control procedures and practices shall 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 – shall be followed.

Other techniques for controlling dust may be utilized upon approval by the RIDOT Resident Engineer and the RIDOT Natural Resources Unit. Other Dust Control methods include surface roughening, wind barriers, walls, and covers.

Describe dust control practices that will be implemented to control pollutants to stormwater. IV.E.2.c.v

- Watering will be used to control dust.

3.9 Sweeping

Sweeping of streets, roads, highways and parking lots that have accumulated significant amounts of pollutants (construction site sediment, trash, debris) shall be done as necessary, or as directed by the RIDOT Resident Engineer.

When construction exits are not keeping construction site sediment from the roadway, sweeping shall be done on a daily basis.

Disposal of collected sweeping material shall follow RIDOT Standard Specifications Section 931 – Cleaning and Sweeping Pavement.

Describe sweeping practices and schedule that will be implemented to control pollutants to stormwater. IV.E.2.c.v

- Regular sweeping, particularly at the end of the work day, will be done to control sediment.

3.10 Additional BMPs

Describe any additional BMPs that don't fit into the above categories. Indicate the problem they are intended to address.

- No additional BMPs will be used.

3.11 Construction Site Good Housekeeping BMPs

Complete the following table for each location where Good Housekeeping BMPs will be utilized. This table is to be used as part of the SWPPP Inspection Report – please fill out accordingly.

It is expected that this table will be amended as needed throughout the construction project.

Location/Station	BMP Description/ Standard Spec Ref	Maintenance Requirement	Phase
Construction Site Entrance/Exit	Rock / RipRap entrance pad 211.03/9.9.0	Replenish/Replace aggregate if it becomes clogged with sediment and is no longer effectively preventing sediment from being tracked into street	Throughout entire project
Adjacent Roads	Public roads adjacent to a construction site shall be cleaned at the end of each day 211.01.1	Street Sweep if construction site sediment is visible	Throughout entire project
Site Wide	Pick up of construction trash and debris	All loose trash and debris must be disposed of properly at the end of each working day	Throughout entire project

SECTION 4: POST-CONSTRUCTION BMPs

RIPDES Construction General Permit – Section IV.E.2.b

Provide a description of measures that will be installed during the construction project to control pollutants in storm water discharges that will occur at the site after the construction operations have been completed.

Such measures may include: infiltration of runoff on-site, flow attenuation by use of open vegetated swales and natural depressions, vegetated buffer strips, and the use of detention/ retention structures. Where controls are needed to prevent or minimize erosion, velocity dissipation devices shall be placed at all outfall locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to the receiving waters.

Include RIDOT Standard Specification or Standard Detail reference with maintenance requirements.

4.1 Post-Construction BMPs

Describe all post-construction stormwater management measures that will be installed during the construction process to control pollutants in stormwater discharges after construction operations have been completed.

- New post-construction BMPs are not proposed as part of this project.

4.2 Low Impact Design Considerations

Low Impact Development (LID) is a stormwater management approach that emphasizes managing stormwater using decentralized micro-scale controls. LID's goal is to mimic a site's predevelopment hydrology by using design techniques that infiltrate, filter, store, evaporate, and detain runoff close to its source, instead of conveying and managing/ treating stormwater in large, end-of-pipe facilities located at the bottom of drainage areas. LID may not be appropriate for every project; however, LID techniques should be investigated and utilized to the maximum extent practicable.

For further information on LID design, visit: <http://www.epa.gov/owow/nps/lid/>

Describe how low impact design (LID) or smart growth considerations have been incorporated into the design.

- Low impact design or smart growth considerations are not appropriate to incorporate into this project, which involves reconstructing sidewalks and maintenance of stormwater conveyance system.

4.3 Post-Construction BMPs

Complete the following table for each location where post-construction BMPs will be utilized. This table is to be used as part of the SWPPP Inspection Report – please fill out accordingly.

Location/Station	BMP Description/ Standard Spec Ref	Maintenance Requirement	Phase
NA	NA	NA	NA

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 plans, in **Section 212** of the RHODE ISLAND DEPARTMENT OF TRANSPORTATION *Standard Specifications for Road and Bridge Construction* 2004 EDITION (and Amendments), and in the Stormwater Management Analysis documentation.

Construction shall 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 shall be maintained by the Contractor 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.

Erosion and pollution controls will be cleaned when directed by the Engineer; after a rainstorm; and/or when sediment deposits reach the heights indicated in the table provided in Section 212.03.1 of the RIDOT Standard Specifications.

Erosion control structures shall remain in place until all disturbed earth has been securely stabilized and accepted by RIDOT. Before final removal, all accumulated sediment on the upstream side shall be removed and legally disposed of. After removal of structures, disturbed areas shall be regraded and stabilized as necessary.

Note: The contractor is required to have a full-time, on-site designated contact person responsible for working with the RIDOT Resident Engineer and the RIDOT designated Environmental Compliance Manager (EMC) to resolve SWPPP-related issues.

5.2 Inspections

RIPDES Construction General Permit – Section II.B & Section II.D

Minimum Monitoring and Reporting Requirements

All storm water control measures, disturbed areas, areas used for the storage of materials that are exposed to precipitation (including unstabilized soil stockpiles), discharge locations, and locations where vehicles enter or exit 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. 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

- A separate inspection report will be prepared for each inspection.
- 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
- 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 returned to the Inspector within 24 hours of receipt. The Engineer will also forward a copy of each signed and dated report to the Contractor's designated representative within the same time period.
- 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.

Submitting Monthly Reports

The inspector will submit a Monthly Inspection Report to:
RIDOT Natural Resources Unit
Two Capitol Hill, Rm. 368
Providence, RI 02903

At a minimum, the monthly inspection report will include:

- A summary narrative of the month's inspections.
 - Introduction – inspector, rain gauge information
 - Summary of Site Activities – # of investigations; date(s) of weather events resulting in at least 0.25" of precipitation in a 24-hour period or significant snowmelt.
 - Site Review and Discussion – for each inspection, a paragraph including date, time, weather, and precipitation events; general observations, issues, actions taken to resolve previous inspection's corrective actions; ongoing issues; associated photo/figure numbers
 - Outstanding Issues – continued erosion and sediment control issues not addressed since previous month's inspection report
 - Summary
- A copy of each completed, dated, and signed inspection report
- Associated photos – 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.
- A copy of the daily rainfall summary data for the month as reported by the selected rain gauge.
- A CD containing a complete copy of all portions of the monthly report in .pdf format.

One copy of the monthly inspection report will be printed double-sided (except for photo or plan sheet pages), bound, and forwarded to the NRU by no later than the 10th of the month following the end of the reporting period.

Attach a copy of the inspection report.

- See Attachment C.

5.3 Corrective Actions

RIPDES Construction General Permit – Section II.C

If, in the opinion of the Engineer, corrective action is required, the Engineer shall note it on the inspection report and shall 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 the General Permit and the SWPPP, non-compliance issues shall be addressed no later than seven (7) calendar days from the date of inspection.

In accordance with the SWPPP and Section 212 of the RIDOT Standard Specifications, the Contractor shall 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 shall 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.

Attach a copy of the Corrective Action Log.

- See Attachment D.

5.4 Long-term Maintenance

Once construction has been completed and has received Final Acceptance, it is the responsibility of RIDOT to inspect and maintain all storm water structures on a regular basis.

At the time of Final Inspection, the RIDOT Highway and Bridge Maintenance Division will appoint an individual who will be responsible for conducting inspections and maintaining records.

The stormwater management system requires regular maintenance to function at its designed constituent removal efficiency. The RIDOT, or subsequent owners, will be responsible for the inspection, maintenance, and repairs to the stormwater management structures on the Site. At a minimum, the following inspection actions are to be taken and inspection reports kept on file by RIDOT:

For each post-construction stormwater structure, provide inspection and maintenance requirements

Descriptive Location	BMP Description	Inspection Requirement	Maintenance Requirement
Catch basins throughout project area (existing)	Vortechincs Stormwater Swirl Chamber (manuf. details on plans)	Quarterly for first two years; as determined by Year 1 & 2 inspections; no less than annually	Cleanout if sediment depth is less than 6" from dry weather water surface elevation

Attach a copy of the inspection report and inspection log

- See Attachment E for Inspection Report.
- See Attachment F for Inspection Log.

SECTION 6: Amendments

RIPDES Construction General Permit – Section IV.D

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 according to the approved plan, the site is only in compliance when erosion and sedimentation are effectively controlled throughout the entire site.**

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 (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.

Attach a copy of the Amendment log

- See Attachment G.

SECTION 7: Recordkeeping

RIPDES Construction General Permit – Section II.A & Section II.D

It is the RIDOT Resident Engineer's responsibility to have the following documents at the Field Office and immediately available for RIDEM review upon request:

- A copy of the fully signed and dated SWPPP, which includes:
 - The signed and certified NOI form or permit application form
INCLUDED AS ATTACHMENT _____
 - A copy of the RIPDES General Permit
INCLUDED AS ATTACHMENT _____
 - A copy of any regulatory permits (RIDEM Freshwater Wetlands Permit, CRMC, RIDEM Water Quality, etc)
INCLUDED AS ATTACHMENT _____
 - Corrective Action Log
INCLUDED AS ATTACHMENT _____
 - SWPPP Amendment Log
INCLUDED AS ATTACHMENT _____

- Copies of all signed and dated Inspection reports

SECTION 8: Party Certifications

All parties working for the Rhode Island Department of Transportation 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 RIDOT Field Office, or may be obtained from the RIDOT Natural Resources Office by calling (401) 222-2023.

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.

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.

RIDOT Resident Engineer:

Insert Company or Organization Name

Insert Name & Title

Insert Address

Insert City, State, Zip Code

Insert Telephone Number, Insert Fax/Email

signature/date

RIDOT SWPPP Inspector:

Insert Company or Organization Name

Insert Name & Title

Insert Address

Insert City, State, Zip Code

Insert Telephone Number, Insert Fax/Email

signature/date

Contractor SWPPP Contact:

Insert Company or Organization Name

Insert Name & Title

Insert Address

Insert City, State, Zip Code

Insert Telephone Number, Insert Fax/Email

signature/date

SubContractor SWPPP Contact:

Insert Company or Organization Name

Insert Name & Title

Insert Address

Insert City, State, Zip Code

Insert Telephone Number, Insert Fax/Email

signature/date

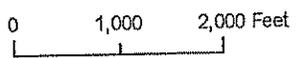
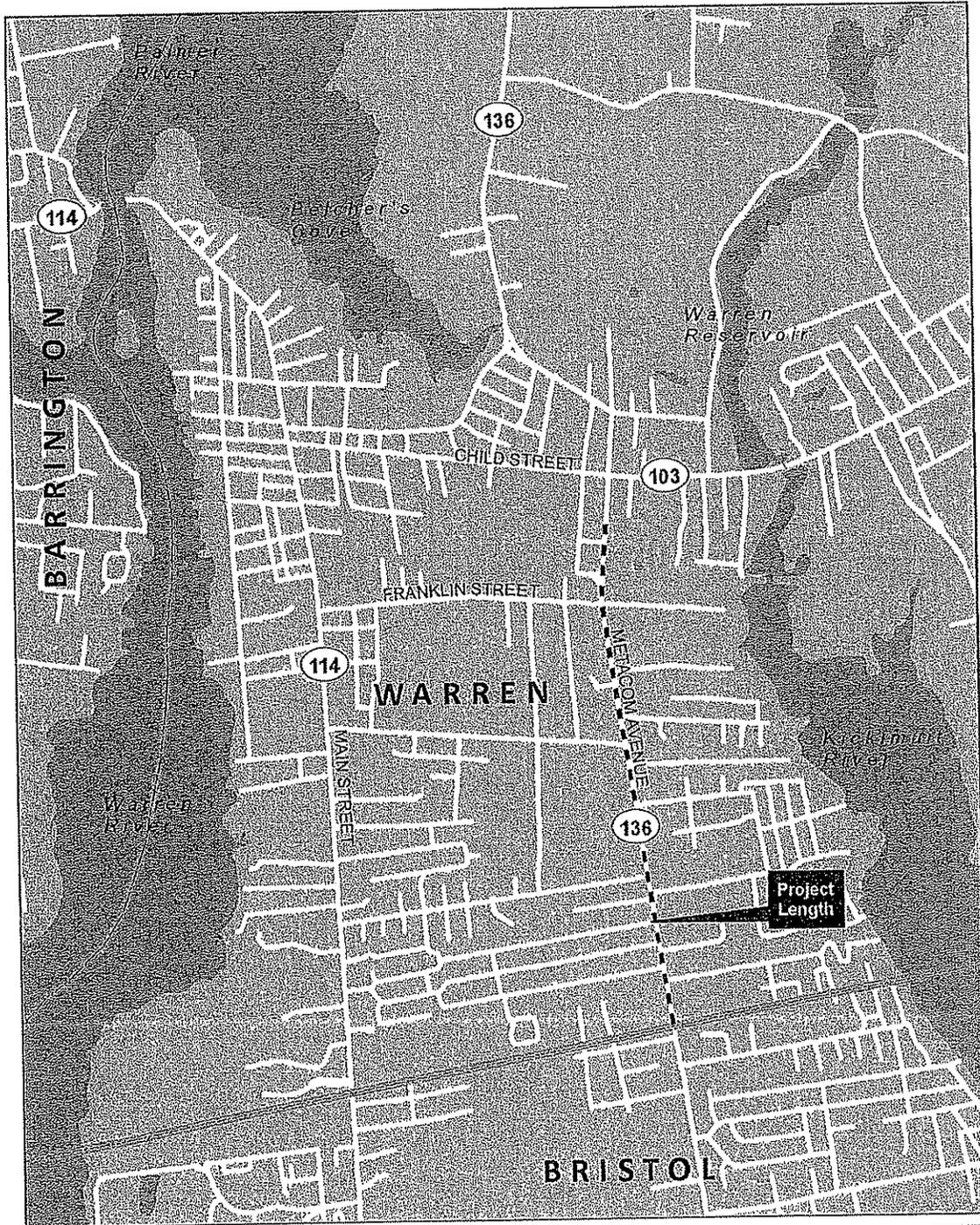
Insert more contact/signature lines as necessary

SWPPP APPENDICES

Attach the following documentation to the SWPPP:

- Attachment A – General Location Map
- Attachment B – Site Plans
- Attachment C – Inspection Reports
- Attachment D – Corrective Action Log
- Attachment E – Post Construction BMP Inspection Report
- Attachment F – Post Construction BMP Inspection Log
- Attachment G – Amendments Log

Attachment A – General Location Map



Attachment B – Site Plans

Attachment C – Inspection Reports

Attachment D – Corrective Action Log

Attachment E – Post-Construction BMP Inspection Reports

Attachment F – Post-Construction BMP Inspection Log

Attachment G – Amendments Log

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SPECIFICATIONS - JOB SPECIFIC

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L02.1000	Seeding	JS-36
L06.1000	Planting	JS-37
L06.9901	Pine Bark Mulch 3" Deep	JS-38
T.05.9901	Fiberoptic Handholes	JS-39
T.13.1000	Detectors and Relays	JS-42
T13.9901	Global Positioning Satellites (GPS) Clock Assembly	JS-43
T20.9904	4-Inch Temporary Epoxy Resin Pavement Markings – Yellow	JS-46
T20.9906	6-Inch Temporary Epoxy Resin Pavement Markings – White	
T20.9912	12-Inch Temporary Epoxy Resin Pavement Markings – White	
T20.9920	4-Inch Temporary Epoxy Resin Pavement Markings – Arrow Lane Reduction	
T15	Sign Inventory	JS-49

CODE 12.108.1000

PROSECUTION AND PROGRESS

In accordance with Section 12.108.08, Failure to Complete on Time, Para. a., Phased Completion, Interim Completion and Substantial Completion the following defines the Interim and Substantial Completion Dates and Associated Liquidated Damages:

Interim Completion Date 1: 60 Days after Notice-to-Proceed

1. Temporary Wheelchair ramp station 137+00± Lt
2. All Bristol Ferry Road Work

Liquidated Damages: \$ 500.00 per calendar day.

Substantial Completion: *August 13, 2013*

All Contract work shall be completed, as defined by Section 12.101.71.

Liquidated Damages: \$ **500.00** per calendar day.

ITEM CODE 206.9901
INLET SEDIMENT CONTROL

DESCRIPTION

This work shall consist of furnishing and installing individual sediment bags at each catch basin within the project area, and removing them at the completion of the project. The purpose of these bags is to catch construction related sediment prior to its entry into the existing highway storm drainage system.

MATERIALS:

The Sediment catchment bags shall be pre-manufactured for the express purpose described here-in, and shall be constructed of an engineered textile material. While the plans details depict a specific manufactured product, an acceptable equal may be proposed by the Contractor, subject to Engineer review and approval.

CONSTRUCTION METHODS:

The Contractor shall be responsible for providing to the Engineer two (2) copies of the manufacturer's instructions for the installation and maintenance of the Inlet Sediment Control, and the installation and maintenance shall conform to these instructions.

The installation of the Inlet Sediment Control Devices shall take place:

- o after the entire storm drainage system has been cleaned and flushed, and
- o before earth disturbance for curb, sidewalk, and driveway construction has commenced

Winter Shutdown: All inlet controls shall be removed during winter shutdown and/or other periods of construction inactivity. Construction activities may not commence after that until said devices have been reinstalled to the satisfaction of the Engineer.

METHOD OF MEASUREMENT

"Inlet Sediment Control" as indicated on the plans or as directed by the engineer will be measured per EACH, representing the number of catch basins actually furnished with the Inlet Sediment Control device in accordance with the plans or as directed by the engineer.

BASIS OF PAYMENT

The accepted quantities of "Inlet Sediment Control" will be paid for at the contract unit price per "EACH" as listed in the Proposal. This price so-stated constitutes full and complete compensation for all labor, materials, equipment, tools and incidentals necessary to finish the work, complete and accepted by the Engineer.

No separate payment will be made for the replacement of devices deemed by the Engineer to be the result of the Contractor's operations.

The cost of cleaning and maintenance of the Inlet Sediment Control devices, including the removal and resetting of devices for winter shutdown, shall be included in the price paid for the bid item for "Cleaning and Maintenance of Erosion Controls."

CODE 938.1000

PRICE ADJUSTMENTS

DESCRIPTION

a. **Liquid Asphalt Cement.*** The Base Price of Liquid Asphalt Cement as required to implement Subsection 938.03.1 of the Standard Specifications is \$ 630.00 per ton as of 07/02/2012.

- 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 modified 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 Standard Specifications is \$ 2.9336 per gallon as of 07/02/2012.

CODE T05.9901**FIBER OPTIC HANDHOLE****DESCRIPTION:**

This item of work shall consist of furnishing and installing a precast concrete handhole with castings installed exclusively to support a fiberoptic communications system upon a later date, at the locations shown on the plans or as directed by the Engineer.

MATERIALS:

The materials shall conform to the appropriate sections of the Standard Specifications for Road and Bridge Construction.

CONSTRUCTION METHODS:

This work shall be performed prior to the replacement of the sidewalk, wheelchair ramps, and roadways specified elsewhere in these Contract documents.

The construction shall conform to the Standard Specifications for Road and Bridge Construction. Sidewalks and pavements shall be sawcut prior to removal. A test pit shall be preformed at each proposed handhole location prior to installation. Concrete sidewalks shall be cut on the nearest joint or score line. All pavement and sidewalk material that is removed shall become the property of the Contractor and shall be legally disposed of. All roadway pavements shall be restored in-kind to match existing in accordance with the Standard Speciation for Road and Bridge Construction and the Standard Details. Sidewalk surfaces shall be temporarily restored to a safely traversable surface with bituminous material while awaiting final sidewalk construction. For bituminous sidewalks, the entire width shall be replaced.

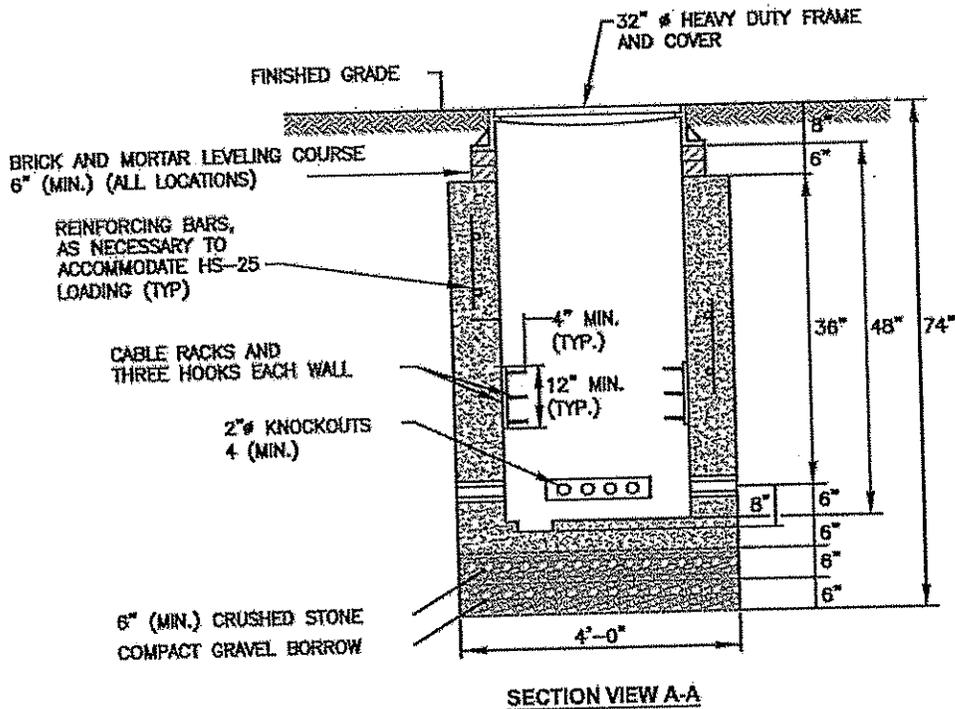
METHOD OF MEASUREMENT:

Code T05.9901, Fiberoptic Handhole shall be measured by the unit "EACH" for the number of units actually installed and accepted by the Engineer.

BASIS OF PAYMENT:

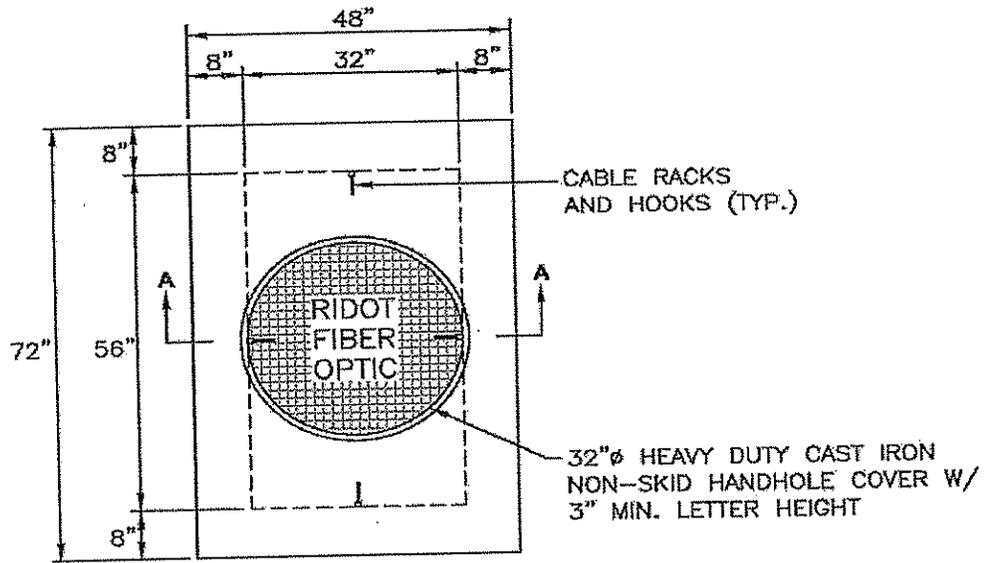
Code T05.9901, Fiberoptic Handhole shall be paid for at the contract bid price per "Each", in accordance with Section T.05.05 of the Standard Specifications, for which price and payment shall constitute full compensation for furnishing all labor, materials including reinforcement bars, excavation, backfill, handholes, castings (covers), temporary sidewalk and/or pavement, grass seed, trimming and fine grading, removal and disposal, sawcutting, complete-in-place and accepted by the Engineer.

Permanent sidewalk replacement shall be paid for under other items in the Contract.



- MANHOLE NOTES:**
1. MANHOLE SHALL BE HEAVY DUTY, CONSTRUCTED WITH REINFORCING BARS, AND CONFORM TO THE HS-25 LOADING REQUIREMENTS.
 2. MANHOLE AND FRAME AND COVER SHALL BE IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS.
 3. GROUT AROUND ALL CONDUITS. CONDUIT SHALL NOT BE GROUNDED OR TIED TOGETHER WITH BOND WIRE.
 4. CONDUIT TO ENTER MANHOLE THROUGH KNOCKOUT.
 5. CONDUIT KNOCKOUT CONFIGURATION MAY VARY BY LOCATION AND/OR MANUFACTURER.
 6. ALL SPLICE MANHOLES SHALL HAVE A MINIMUM OF 6 INCHES OF BRICK AND MORTAR LEVELING COURSE TO ALLOW FOR FUTURE ADJUSTMENT.

FIBER OPTIC SPLICE MANHOLE DETAIL
 NOT TO SCALE



PRECAST 4'x6' SPLICE HANDHOLE
TOP VIEW

CODE T15.

SIGN INVENTORY

DESCRIPTION:

This item of work shall consist of collecting and managing all relevant information for new Directional, Regulatory, Warning, and Parking signs installed under this Contract as shown on the plans and/or directed by the Engineer, and providing this data to the Department of Transportation on a format suitable for entering into their statewide sign database file.

MATERIALS:

All horizontal coordinate data shall be collected using a calibrated and updated Global Positioning Satellite (GPS) system capable of providing northing and easting coordinated to an accuracy of: less than one meter (<1m) under normal worksite conditions.

CONSTRUCTION METHODS:

For every sign permanently installed under this contract, the following information shall be collected and catalogued:

Location

- ✓ Town
- ✓ Street
- ✓ Roadway Location (left or right side of the road)
- ✓ Northing (RI Coordinate Grid System)
- ✓ Easting (RI Coordinate Grid System)

Sign Legend

- ✓ MUTCD Category
- ✓ MUTCD Code
- ✓ The text on the sign
- ✓ Sign Height
- ✓ Sign Width
- ✓ The text on the sign
- ✓ Legend Color
- ✓ Background Color
- ✓ Shape
- ✓ Support Type (RI Standard, if appl.)
- ✓ Comments
- ✓ 2 Photos (one from less than 50 feet, one at greater than 100 feet)

Each sign is anticipated to occupy a single record, with the information provided precisely in the order shown above.

It is the intention of the Department to receive all data collected for the sign(s) in a format suitable to supplement their existing statewide database. At present, the preferred format is anticipated to be Microsoft Access[®]. 2 copies of all data will be furnished on separate Compact Discs to the Engineer.

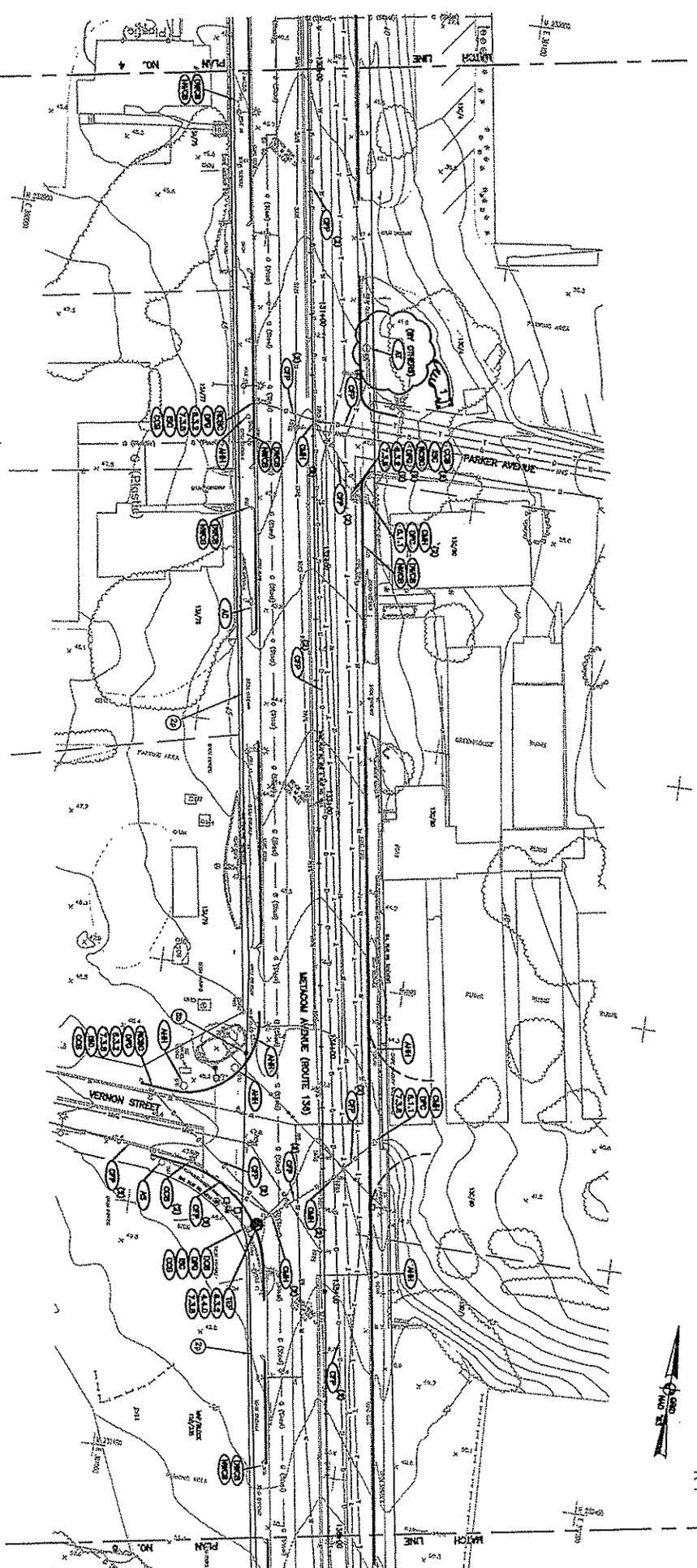
One (1) partial submission will be permitted, in order to expedite payment and verify the formatting of the data. A partial submission may not have incomplete records. No other partial submissions will be permitted unless specifically requested by the Engineer.

METHOD OF MEASUREMENT:

Code T15., Sign Inventory shall not be measured for payment.

BASIS OF PAYMENT:

Code T15., Sign Inventory, shall not be paid for separately. Payment for the cost of this task shall be included in the price paid for the permanent signs installed on the project. Said payment will include full compensation for obtaining and recording observed and measured field data including the cost and operation of Global Positioning Satellite (GPS) coordinate data and compiling all acquired data in a format suitable for Department use.



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REV	DATE	BY	DESCRIPTION	APP'D	DATE
1					

APPENDUM NO. 1

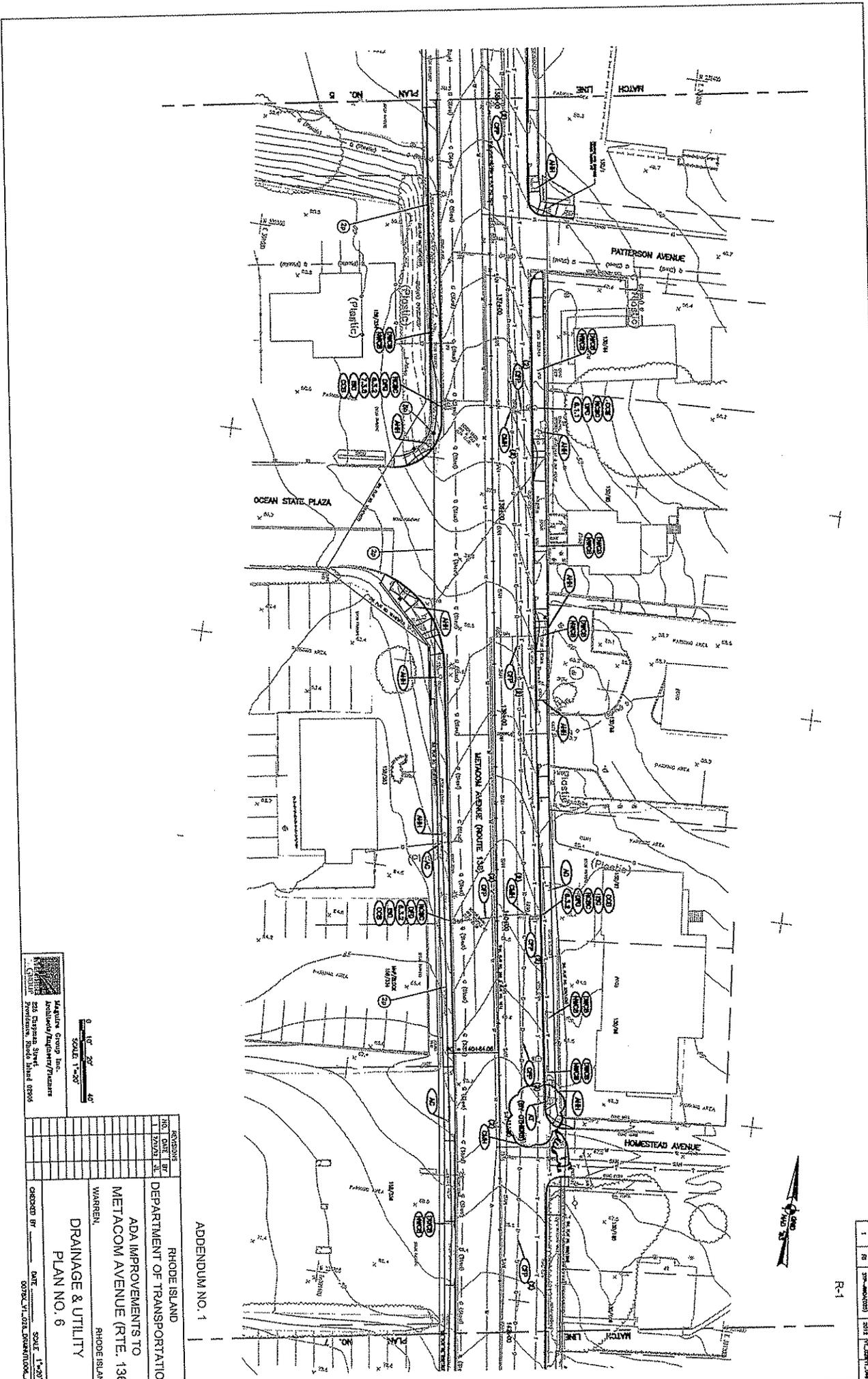

 Knapik Group Inc.
 Architects/Engineers/Planners
 225 Quaker Street
 Providence, Rhode Island 02905

SCALE 1" = 20'
 SCALE T = 50'
 0 10' 20' 40'

REVISIONS	NO.	DATE	BY
	1	12/21/11	X

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION
 ADA IMPROVEMENTS TO
 METACOM AVENUE (RTE. 136)
 PLAN NO. 5
 DRAINAGE & UTILITY
 WARREN
 RHODE ISLAND

CHECKED BY: _____ DATE: _____
 SCALE: 1" = 20'
 07752-VI-005-PLANNO.5



R-1

NO.	DATE	BY	REVISION
1	07/20/11	MM	ISSUE FOR CONSTRUCTION

ADDENDUM NO. 1

REVISIONS	NO.	DATE	BY	DESCRIPTION
	1	07/20/11	MM	ISSUE FOR CONSTRUCTION

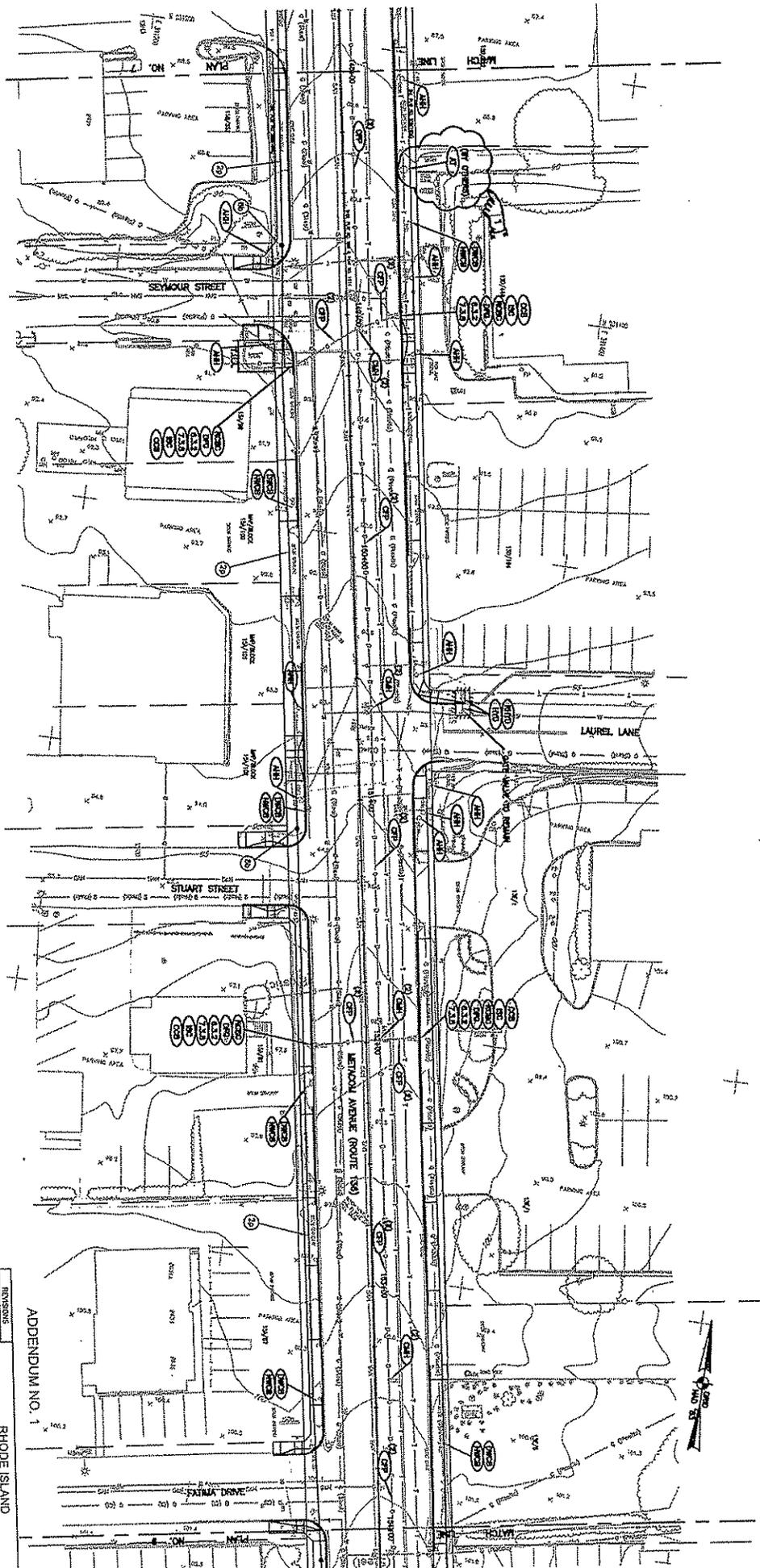
RHOIDE ISLAND
 DEPARTMENT OF TRANSPORTATION
 ADA IMPROVEMENTS TO
 METACOM AVENUE (RTE. 138)
 WARREN, RHOIDE ISLAND

DRAINAGE & UTILITY
 PLAN NO. 6

CHECKED BY: MM DATE: 07/20/11
 SCALE: 1"=20'
 087924.1-002-DRAINAGE/UTILITY

0" 10' 20'
 SCALE 1"=20'
 40'

Houghton Group Inc.
 255 State Street
 Providence, RI 02903
 401-843-1111



NO.	DATE	BY	REVISION
1			

R-1

APPENDUM NO. 1

RHOODE ISLAND
 DEPARTMENT OF TRANSPORTATION
 ADA IMPROVEMENTS TO
 METACOM AVENUE (RTE. 136)
 WARREN
 RHOODE ISLAND
 DRAINAGE & UTILITY
 PLAN NO. 8

CHECKED BY: _____ DATE: _____
 SCALE: 1"=30'
 CONTRACT NO. 2012-11-001

1" = 30'
 SCALE 1"=30'
 METACOM GROUP, INC.
 605 DEXTER STREET
 PROVIDENCE, RHODE ISLAND 02903