October 2, 2019

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID NO. 7598948

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO.2019-CH-032

FEDERAL-AID PROJECT NO. FAP Nos: STP-RESF(406)

Rt 44 - Taunton Ave (Rt 1A/114 - Mass S/L)

East of Pawtucket Ave. to the Massachusetts State Line
CITY/TOWN OF East Providence
COUNTY OF PROVIDENCE

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 3 Prospective bidders and all concerned are hereby notified of the following changes in the Plans, Specifications, Proposal and Distribution of Quantities for this contract. These changes shall be incorporated in the Plans, Specifications, Proposal and Distribution of Quantities, and shall become an integral part of the Contract Documents.

A. Contract Dates

1. Bid-Opening Date

Bid-Opening Date Updated To "10/25/2019" at 2:00 PM

B. Contract Documents

- 1. Specifications Job Specific
 - a. JS-ii Job Specific Index

Delete Page JS-ii in its entirety and replace with revised JS-ii (R-2), attached to this Addendum No. 3. The Index has been revised.

b. Pages JS-60 to JS-72

Include Pages JS-60 to JS-72 attached to this Addendum No. 3. Items 203,9901 and 203,9951 have been included in the contract.

C. Distribution of Quantities

1. Assembly Summary Page 18 (R-1)

Delete Assembly Summary Page 18 (R-1) in its entirety and replace with revised Assembly Summary Page 18 (R-2), attached to this Addendum No. 3. Assembly RIPRP has been revised.

2. Index Pages 1-4 (R-1)

Delete Index Pages 1-4 (R-1) in their entirety and replace with revised Index Pages 1-4 (R-2), attached to this Addendum No. 3. The Index Pages have been revised.

3. Page 13 (R-1)

Delete Page 13 (R-1) in its entirety and replace with revised Page 13 (R-2), attached to this Addendum No. 3. Item Code 203.0530 has been deleted.

4. Page 63

Delete Page 63 in its entirety and replace with revised Page 63 (R-1), attached to this Addendum No. 3. Item Code 920.0070 has been revised.

5. Page 63a

Insert Page 63a attached to this Addendum No.3. New page added for pagination.

6. Page 64

Delete Page 64 in its entirety and replace with revised Page 64 (R-1), attached to this Addendum No. 3. Item Code 920.0150 has been revised.

7. Page 64a

Insert Page 64a attached to this Addendum No.3. New page added for pagination.

8. Page 80

Delete Page 80 in its entirety and replace with revised Page 80 (R-1), attached to this Addendum No. 3. Item Codes 203.9901 and 203.9951 have been added.

9. Page 81

Insert new Page 81 attached to this Addendum No. 3. Item Codes 203.9951 and 920.0200 have been added.

RI Department of Transportation

Manager of Project Management

Code	Title	Page
L02.1000	Seeding	JS-57
L06.1000	Planting	JS-58
T09.9901	Service Pedestal and Lighting System Modifications	JS-59
203.9901	Dewatering	JS-60
203.9951	Treatment of Contaminated Groundwater	JS-66

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JOB SPECIFIC ITEM CODE 203,9901 DEWATERING

DESCRIPTION:

- A. The work includes but is not limited to all labor, materials, and equipment to:
 - 1. Design, provide, install, operate, maintain, and remove a temporary dewatering system at all excavations as necessary to:
 - a. Maintain a dry and stable subgrade.
 - b. Control and remove water in all excavations from seepage, surface runoff, precipitation or from any other source.
 - c. Provide sedimentation control to reduce total suspended solids in effluent prior to discharge in accordance with requirements of permits.
 - e. Maintain construction-dewatering effluent in compliance with special provisions and RIPDES Permit requirements.
 - 2. Design, provide, install, operate, maintain, and remove a temporary surface water control system which will divert surface water away from excavations, trenches, utilities, and all other work areas.
 - 3. Maintain the construction dewatering operation to minimize impacts to the existing groundwater levels outside the limits of the site.
 - 4. The Contractor shall be responsible to dewater as described and specified above, and as necessary, in excavations for temporary excavation support, drainage and utility construction, and all other excavations.

RELATED WORK SPECIFIED ELSEWHERE:

- A. The Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction, 2018 Edition, is referred to as the State Standard Specifications. The Contractor shall comply with the referenced sections and all related sections exclusive of measurement and payment sections.
- B. For handling and treating contaminated groundwater refer to Code 203.9951— Treatment of Contaminated Groundwater.

Addendum No. 3 JS-60

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DESIGN AND PERFORMANCE CRITERIA:

A. General

- 1. The design and implementation of the systems used for controlling water, inside and outside the excavation, shall be provided by the Contractor who shall be solely responsible for the performance, location, arrangement, and depth of any system or systems selected to accomplish the work. These systems may include gravity wells, vacuum wellpoints, deep well pumps, or open pumping from sumps depending upon location on-site and soil conditions.
- 2. Discharge of groundwater shall be in accordance with all permits. No discharge of groundwater is allowed into the sanitary sewer system.
- 3. The Contractor shall manage on-site discharge of construction dewatering to prevent off-site surface runoff or damage to on-site construction.
- 4. Sedimentation basins shall be included in the system design and the Contractor shall be responsible for implementing appropriate measures and/or using appropriate equipment to capture, remove, and dispose of contaminants deemed unsuitable for discharge under the applicable Permit.
- 5. If evidence of contamination is suspected or detected (visual or olfactory evidence, or through chemical test data), dewatering activities shall be immediately modified per the special provisions for treatment of contaminated groundwater and the Engineer shall be notified.
- 6. Dewatering shall be performed such that soil particles are not removed from the ground with the dewatering effluent. Filters shall be provided around well points, deep wells and submersible pumps, and sump pumps, to prevent the migration of soil from the excavation being dewatered.
- 7. During backfilling operations, maintain the water level a minimum of 2 feet below the top of level compacted backfill at all times during placement and compaction.
- 8. Modify the system(s) at no additional cost to the State if, after installation and while in operation, it causes or threatens to lower groundwater levels outside of excavation limits and cause settlement or damage to existing buildings, structures, pavements, ground, utilities or new construction, or adversely affects groundwater aquifer, or otherwise does not perform as required.
- 9. Dewater such that all construction operations are conducted in-the-dry.
- 10. Repair damage, disruption or interference to any utility, structure, and/or facility resulting directly or indirectly from dewatering activities, including inadequate

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performance of such systems, at no additional cost to the State. The proposed repairs and design shall be submitted to the Engineer for approval.

- 11. Comply with federal, state, and local codes, ordinances and regulations for disposal of discharge water and sediment control. The State shall not be responsible at any time for the Contractor's violation of pertinent State or Federal regulations or endangerment of on-site workers, the public, the environment, or any others.
- 12. Maintain continuous and complete effectiveness of dewatering systems and surface water control 24 hours per day, 7 days per week as specified herein. As necessary, provide backup power generation and dewatering system components and devise emergency procedures for maintaining continuous, uninterrupted dewatering operations as needed.
- B. The methods of controlling water, inside and outside the excavation, shall be determined by the Contractor who shall be solely responsible for the performance, location, arrangement, and depth of any system or systems selected to accomplish the Work. These systems may include gravity wells, vacuum wellpoints, deep well pumps, or open pumping from sumps depending upon location on-site and soil conditions.

SUBMITTALS

- A. Submit the following information to the Engineer:
 - 1. Shop drawings showing proposed types and details of excavation dewatering systems, pre-dewatering systems, unwatering systems, sedimentation tanks, sedimentation and erosion control systems, and surface water control.
 - 2. Shop drawings shall include the arrangements, sizes, capacities, locations and depths of the proposed systems, a complete description of equipment and materials to be used and the procedure to be followed in installation, operation, maintenance and removal. Submit the proposed sequence of excavation, foundation construction and backfilling; the standby equipment and standby power supply; and the proposed locations of points of discharge of water and their relationship to sediment control facilities.
 - 3. Plan locations of proposed surface water control and discharge systems.
 - 4. Design and details of the on-site sedimentation tanks and associated piping, with calculations and supporting technical information. Include a schedule for cleaning of sedimentation basin.
 - 5. Location and size of dewatering systems and water discharge lines, including their relationship to water disposal points.

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6. Anticipated peak and average rates of water discharge.

7. Management of settled sediments.

MATERIALS:

GENERAL

- A. All materials and equipment shall be of appropriate type and maintained in proper operating condition.
- B. Materials and equipment shall be of suitable size, capacity and type to dewater the site soils and excavations; maintain dry and stable working surfaces; to pump, store, manage, treat and discharge dewatering effluent.
- C. Sedimentation tanks shall be of sufficient size and capacity to handle the dewatering flows, and to reduce suspended materials in the dewatering effluent in accordance with all permits obtained for the Project. The tank shall contain baffles to reduce velocities and allow sediment to settle inside the tank. At the discharge port, a filter cloth or bag assembly shall be installed to reduce the sediments in the discharge water.
- D. Maintain and employ adequate back-up equipment in the case of equipment breakdown.
- E. Provide calibrated flow meters to measure the discharge flow rate and the total volume of water discharged into storm drains where required by permits.

EXECUTION:

DEWATERING SYSTEM

- A. The Contractor shall adapt and modify the dewatering and sedimentation treatment system(s) as required throughout the course of the Work to meet the requirements of the Work. The Contractor shall be responsible for determining dewatering requirements and designing, providing, installing, operating, monitoring and maintaining the dewatering systems(s).
- B. Maintain site, construction dewatering equipment, and subsurface drainage in an acceptable manner during the course of the Work. Collect and discharge surface water, seepage, precipitation, groundwater and other water that may enter excavations. Control the inflow of water at all times during construction, to prevent adverse (as previously defined) groundwater lowering outside the site limits and to permit all work to be performed in-the-dry.

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C. Provide, install, maintain, and operate pumps, wells, sumps and related equipment, including standby equipment, of sufficient capacity to adequately dewater excavations until the required construction, installation, and backfilling of underground structures are completed to a level at least 2 feet above prevailing static or piezometric ambient groundwater elevation. When installing tank vaults, sewer manholes, or other structures that may be subject to buoyant forces, maintain dewatering operations until sufficient structure dead weight or backfill is placed to resist uplift forces.

- D. Install the dewatering system(s) for temporary excavation support, utility, and all other excavations.
- F. Maintain site grades to direct surface runoff to collection points. Prevent surface water from running or collecting over prepared subgrades or fill surfaces. Do not permit standing water to accumulate in excavations.
- G. All dewatering system(s) shall include methods to remove sediment and suspended particles from the dewatering effluent to comply with permit requirements.
- H. If sediment or other materials discharged from the dewatering system accumulates in the storm drains or other utilities, the Contractor shall completely clean and remove all sediment from impacted utilities to the satisfaction of the State and the Owner of the utility, at no additional cost to the State nor the Utility Owner.
- I. Permanent utilities and piping shall <u>not</u> be used as part of dewatering system(s).
- J. Remove and backfill dewatering elements when no longer required, using methods acceptable to the Engineer. Backfill any voids resulting from dewatering system removal with cement grout, concrete, or other material as directed by the Engineer to prevent potential loss of ground.

ON-SITE DISCHARGE OF EFFLUENT

- A. The Contractor may manage construction dewatering effluent on-site provided that the on-site discharge of the effluent does not result in off-site surface runoff or damage to on-site construction.
- B. On-site discharge of the construction dewatering effluent shall be performed in accordance with requirements of applicable permits, and be in accordance with Federal, State, and local codes, ordinances, and regulations.

PERMIT COMPLIANCE

A. The Contractor shall notify the Engineer a minimum of one week prior to any discharge.

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B. All pumped water shall be collected and treated to remove suspended fine material, in accordance with the Permit.

- C. Do not discharge oil or hazardous materials sufficient to cause a sheen in the receiving discharge system. If a sheen occurs in the receiving system due to discharge from the Site, immediately discontinue discharge and notify the Engineer.
- D. The Contractor shall adapt and modify the dewatering and treatment systems as required throughout the course of the Work to meet the requirements herein. If results of analyses indicate water quality does not comply with applicable Permit criteria, the Contractor shall take immediate action to meet the requirements, including but not limited to continuing to store pumped water on-site until an adequate treatment system can be implemented by the Contractor at no additional cost to the State.

METHOD OF MEASUREMENT: Item Code 203.9901, Dewatering, shall be measured for payment as a Contract Lump Sum Price as listed in the proposal.

BASIS OF PAYMENT: Item Code 203.9901, Dewatering, shall be paid for at the Contract price listed in the proposal per Lump Sum. The price so stated shall include all labor; materials; equipment to mobilize; demobilize; design; install; operate; maintain; submittals; perform construction dewatering and drainage control at all excavations; perform modifications, adjustments, and corrections; on-site stormwater management; sedimentation control; wellpoints; discharge in accordance with the discharge Permit and other regulatory criteria; and removal of systems. The price shall include the costs for mobilization and operation of the system(s) regardless of the number of times the system is turned on and off at all excavations. The price shall include all dewatering at all locations in this contract to satisfactorily complete the other items of work to the satisfaction of the Engineer.

Dewatering basins and erosion control measures will be paid for separately.

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ITEM CODE 203.9951 TREATMENT OF CONTAMINATED GROUNDWATER

DESCRIPTION

The work for this item includes furnishing, installing, operating, maintaining, and removing a system(s) for treating contaminated groundwater at each location where dewatering takes place. During the course of the project construction, dewatering shall be as required by the special provisions. Groundwater has been documented to be contaminated with the following Contaminants of Concern (COCs), total petroleum hydrocarbons (TPH) and detectable levels of naphthalene. Available analytical data for the groundwater is attached in appendix H of the CS pages in the Soil Management Plan. Any groundwater pumping required within the project limits shall require temporary storage and treatment prior to discharge in accordance with the RIPDES RGP. The Rhode Island Department of Transportation (RIDOT) will obtain a conceptually approved RIPDES RGP for this project which does not include details of the groundwater treatment system, nor details of the operator. Work under this item shall also include the preparation and submittal of a revised Notice of Intent (NOI) form to the Rhode Island Department of Environmental Management (RIDEM) for Discharge Category G — Contaminated Construction Dewatering Sites. The revised NOI should include, at a minimum, details of the contractor's proposed groundwater treatment system.

HEALTH AND SAFETY PLAN

The Contractor shall maintain a health and safety plan (HASP) in compliance with the Occupational Safety and Health Administration (OSHA) Standards defined in 29 CFR 1910.120.

The CONTRACTOR'S employees or Subcontractor's employees who will be potentially exposed to the contaminated groundwater shall be required to have OSHA 40-hour health and safety training and the 8 hour refresher training, if applicable. The CONTRACTOR shall provide training certificates to the ENGINEER for the employees that will be performing the work.

The level of dermal and respiratory protection shall be determined based upon periodic air monitoring to be performed by the CONTRACTOR and the requirements of the Site-specific HASP. The ENGINEER may conduct duplicate air monitoring for quality control purposes. Level D protection shall be the minimum personal protective level for all on-site personnel.

APPLICABLE LAWS AND REGULATIONS

The treatment and discharge of contaminated groundwater, including backwash wastewater, shall be conducted in accordance with the requirements and conditions of the Rhode Island Department of Environmental Management (RIDEM) Rhode Island Pollutant Discharge Elimination System (RIPDES) Remediation General Permit (Permit), the Narragansett Bay Commission, and City of East Providence regulations. The RIPDES RGP discharge limitations applicable to treated effluent for a Category G — Contaminated Dewatering Site Discharging to Non-Class AA receiving waters are attached for reference.

The Contractor shall install, operate and maintain the components of the groundwater treatment systems in accordance with the requirements of the RIPDES RGP issued for the project. The Contractor shall sample, test and monitor the discharge(s), for the contaminants of concern (COCs) at the frequency requirements of the RIPDES RGP. The Contractor shall prepare and submit the monitoring results on a Discharge Monitoring Report (DMR) Form in accordance with the permit requirements. The Contractor shall submit copies of the analytical results and DMRs to all parties specified in the permit requirements and to the Engineer. The Contractor shall also prepare and submit the Notice of Termination (NOT) to RIDEM upon termination of the discharge(s) authorized under the general permit.

SUBMITTALS

The Contractor shall submit a written description of their proposed dewatering, storage and treatment systems to handle contaminated groundwater to the Engineer for approval. The description shall include a list of all equipment, including sizes and capacities, and the layout, piping, operation and monitoring schedule of the systems. Multiple systems may be required based on anticipated flow rates. The Contractor shall provide calculations for treatment capacities based on coordination with the Contractor supplied dewatering pumping systems, Contractor's anticipated flow rates, and RIPDES regulations and permit requirements. Contractor shall provide a shop drawing (sketch) of the complete, proposed dewatering, pumping, storage and treatment systems.

The contractor shall submit a revised NOI to RIDEM, at least 60 days prior to beginning discharge, in order to obtain the RIPDES RGP for Category G – Contaminated Dewatering Site Discharging to Non-Class AA receiving waters. The revised NOI must include a complete description of the treatment system including: a flow schematic depicting all major control points (i.e., alarms, sensors, valves) and treatment units; design calculations on the expected treatment performance (i.e., removal efficiency, carbon consumption calculations) including unit height and surface area; and manufacturers' specifications on major components of the treatment system. Also provide a basis for all design calculations and properly reference all design assumptions in order for calculations to be replicated. Plans and specifications on all treatment systems must be signed and certified by a professional engineer registered in the State of Rhode Island.

The Contractor shall prepare, submit and/or maintain copies of all federal, state, and local permits, including applicable fees, and monitoring status reports required to perform the contaminated groundwater treatment and discharge in accordance with the permit requirements. The final dewatering summary report, including analytical data and discharge monitoring reports, shall be prepared by the Contractor and submitted to the Engineer.

EQUIPMENT/MATERIALS

The Contractor shall install temporary dewatering well points or dewater open excavations where necessary to maintain a dry and stable excavation. At a minimum all pumped contaminated groundwater shall be pumped into fractionation tanks and filtered to remove particulate matter, shall be treated through granular activated carbon canisters (GACs) in series to removed TPH and naphthalene. The system shall have the capacity to treat all of the pumped contaminated groundwater

to meet the required RGP discharge limits at the dewatering discharge rate required for excavation operations. The treatment vessels shall be sized by qualified professionals to achieve the required removal of VOCs and TPH, while maintaining the required flow rate to achieve dewatering. As required by the RIDEM RIPDES RGP issued for the project, the groundwater treatment system(s) must be capable of achieving <u>Discharge Category G - Contaminated Construction Dewatering Discharge Limits</u>.

The Contractor shall supply all required pumps and equipment to adequately dewater the work area. Pumps shall be adequately sized for the work specified. The Contractor shall supply its own power for pumping and other purposes.

Temporary groundwater storage facilities (dewatering basins or fractionation tanks) shall be compatible with contaminated water existing at the Site and shall be vandal and weather resistant. The system is required to be mobile. Temporary tanks shall be equipped with site glasses or other devices to allow for gauging of tank contents. Contractor shall be responsible for final cleaning of fractionation tank and disposal of "tank bottoms" generated from cleaning. The contractor is responsible for disposal/recycling of spent carbon, and other treatment media.

Treatment equipment shall be sized to treat all of the pumped contaminated groundwater and equipped to achieve the dewatering requirements and remove the contaminants to the levels required by the RIPDES regulations and permits. The system(s) shall include settling vessel(s), if appropriate, filtration to remove particulate matter, granular activated carbon canisters and any fractional tank will also be fitted with an automatic high-water system shut-off. All equipment shall be free of contamination from other sites and shall be decontaminated between different discharge locations within the project limits. The system(s) shall include readily accessible, standard sampling ports at the influent, mid-point, and effluent of the treatment system, and shall include a flow totalizing meter.

The systems shall include all pumps, hoses and appurtenances required to convey stored water to the treatment systems and treated water to the discharge point.

CONSTRUCTION METHODS

Dewatering, treatment, discharge and monitoring of contaminated groundwater encountered within the project limits shall be in accordance with this specification and the RIDEM RIPDES RGP obtained for the project.

The Contractor shall supply all temporary storage tanks, hoses, sumps, pumps, valves and appurtenances required to meet this specification and the discharge limits of the RIPDES RGP. Contractor will operate and maintain the system and collect all necessary water samples as required by the RIPDES permit. In addition, upon treatment system start up the contractor shall collect influent and effluent samples at the frequency and location as specified in the RIPDES RGP. Water samples shall be analyzed for contaminants including volatile organic compounds (VOC's) by EPA Method 8260, and total petroleum hydrocarbons (TPH) by EPA 8100 with expedited turnaround time, and in accordance with the RIPDES permit requirements.

The Contractor shall replace treatment vessels and or treatment media whenever concentrations of contaminants exceed applicable discharge standards. When change outs are necessary additional granular activated carbon will be supplied by the Contractor at no additional cost to RIDOT. In addition, should on site regeneration occur, the contractor shall obtain approval from RIDEM, at no additional cost to RIDOT. Contractor shall prepare and submit the status reports, as required, and a construction dewatering summary report to the Engineer at the project's completion, as required by RIPDES RGP.

METHOD OF MEASUREMENT

Item Code 203.9951, Treatment of Contaminated Groundwater will be measured for payment per Lump Sum bid price for all groundwater treatment system locations for the treatment and discharge of contaminated groundwater that is required for work in accordance with the Plans and Specifications and/or as directed by the ENGINEER.

BASIS OF PAYMENT

Item Code 203.9951, Treatment of Contaminated Groundwater will be paid for at the contract lump sum price for the entire contract. The price so-stated shall constitute full and complete compensation for all labor, materials, RIDEM RGP or other permits, East Providence permits, all permit fees, and equipment required for pumping of contaminated groundwater, temporary storage of pumped contaminated groundwater, fractionation tanks, on-site treatment, calculations, sampling and analysis as required by the permits, recycling/disposal of used granular activated carbon and change-out of granular activated carbon and replacements as necessary throughout the project, cleaning of temporary storage tanks, preparation of summary report and discharge monitoring reports, and for all other incidentals required to finish the work, complete and accepted by the ENGINEER. Treatment of contaminated groundwater, in accordance with these specifications, generated from roadway construction/reconstruction, installation of storm water drainage systems, and utility installations shall be considered part of the costs for this item. No separate measurement or payment shall be made. The costs for multiple treatment systems, if needed to meet these requirements, shall be included in this lump sum item.

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20. Category G – Contaminated Construction Dewatering Sites Discharging to Non- Class AA receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	<u>Discharge Limitations</u> Concentration - Specify Units		Monitoring F	Requirement	
	Average <u>Monthly</u>	Maximum <u>Daily</u>	Measurement <u>Frequency</u> ^{1,2}	Sample <u>Type</u>	
Flow	GPM	xxx GPM	Continuous ³	Totalizer	
Ammonia			2/Month	Grab	
Ethanol ⁵			2/Month	Grab	
Total Suspended Solids		30,000 ug/l	2/Month	Grab	
Total Residual Chlorine	11 ug/l	19 ug/l	2/Month	Grab	
Total Petroleum Hydrocarbons		1,000 ug/l	2/Month	Grab	
Cyanide	4.16 ug/l⁴	17.6 ug/l	2/Month	Grab	
Benzene	4.72 ug/l	5 ug/l	2/Month	Grab	
Toluene	11.2 ug/l	508 ug/l	2/Month	Grab	
Ethylbenzene	28.8 ug/l	1,280 ug/l	2/Month	Grab	
Total Xylenes (m,p,o)	2.4 ug/l	106.4 ug/l	2/Month	Grab	
Total BTEX		100 ug/l	2/Month	Grab	
Ethylene dibromide		0.05 ug/l	2/Month	Grab	
Methyl- t- Butyl Ether		70 ug/l	2/Month	Grab	
tert-Amyl Methyl Ether			2/Month	Grab	
Carbon Tetrachloride	4.4 ug/l	4.4 ug/l	2/Month	Grab	
1,4 Dichlorobenzene	0.96 ug/l	5 ug/l	2/Month	Grab	
1,2 Dichlorobenzene	1.44 ug/l	63.2 ug/l	2/Month	Grab	
1,3 Dichlorobenzene	6.96 ug/l	312 ug/l	2/Month	Grab	
Total Dichlorobenzene		763 ug/l	2/Month	Grab	
1,1 Dichloroethane		70 ug/l	2/Month	Grab	
1,2 Dichloroethane	5 ug/l	5 ug/l	2/Month	Grab	
1,1 Dichloroethylene	3.2 ug/l	3.2 ug/l	2/Month	Grab	
Cis - 1,2 Dichloroethylene		70 ug/l	2/Month	Grab	
Dichloromethane		4.6 ug/l	2/Month	Grab	
Tetrachloroethylene	4.24 ug/l	5 ug/l	2/Month	Grab	
1,1,1 Trichloroethane		200 ug/l	2/Month	Grab	
1,1,2 Trichloroethane	5 ug/l	5 ug/l	2/Month	Grab	
Trichloroethylene	5 ug/l	5 ug/l	2/Month	Grab	
Vinyl Chloride	1.92 ug/l	2 ug/l	2/Month	Grab	

Acetone		7,970 ug/l	2/Month	Page 6 of 7 Grab
1,4 Dioxane		200 ug/l	2/Month	Grab
Total Phenols	4.48 ug/l	200.8 ug/l	2/Month	Grab
Pentachlorophenol	0.04 ug/l ⁴	0.05 ug/l ⁴	2/Month	Grab
Total Phthalates	3 ug/l	190 ug/l	2/Month	Grab
Bis (2-Ethylhexyl) Phthalate	5 ug/l 6 ug/l	6 ug/l	2/Month	Grab
Total Group I Polycyclic Aromatic Hydrocarbons	0.14 ug/l ⁴	1 ug/l	2/Month	Grab
Benzo (a) Anthracene		0.0038 ug/l ⁴	2/Month	Grab
Benzo (a) Pyrene		0.0038 ug/l ⁴	2/Month	Grab
Benzo (b) Fluoranthene		0.0038 ug/l ⁴	2/Month	Grab
Benzo (k) Fluoranthene		0.0038 ug/l ⁴	2/Month	Grab
Chrysene		0.0038 ug/l ⁴	2/Month	Grab
Dibenzo (a,h) anthracene		0.0038 ug/l ⁴	2/Month	Grab
Indeno (1,2,3-cd) Pyrene		0.0038 ug/l ⁴	2/Month	Grab
Total Group II Polycyclic Aromatic Hydrocarbons	0.14 ug/l ⁴	100 ug/l	2/Month	Grab
Acenaphthene	1.52 ug/l	1.9 ug/l	2/Month	Grab
Acenaphthylene		W 100 111	2/Month	Grab
Anthracene	32,000 ug/l		2/Month	Grab
Benzo (ghi) Perylene			2/Month	Grab
Fluoranthene	3.52 ug/l	159.2 ug/l	2/Month	Grab
Fluorene	4,240 ug/l		2/Month	Grab
Naphthalene	2.08 ug/l	20 ug/l	2/Month	Grab
Phenanthrene			2/Month	Grab
Pyrene	3,200 ug/l		2/Month	Grab
Total Polychlorinated Biphenyls (PCBs)	0.000064 ug/l ⁴	0.000064 ug/l ⁴	2/Month	Grab
Antimony (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Arsenic (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Cadmium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium III (trivalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium VI (hexavalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Copper (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Lead (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Mercury (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Nickel (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Selenium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

Silver (total recoverable) See Part II.E See Part II.E 2/Month Grab					Page 7 of 7
	Silver (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Zinc (total recoverable) See Part II.E See Part II.E 2/Month Grab	Zinc (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Iron (total recoverable) See Part II.E See Part II.E 2/Month Grab	Iron (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

R-2

Assembly Summary

Project Name:

Estimate Name:

R.I. Contract No.:

FAP Nos.:

Item Code	Description	Depth	Factor	Qty
N	80+50 - 80+60 LT (RHHGC)			10.00
	81+16 - 81+29 LT (RHHGC)			13.00
	83+32 - 83+38 LT (RHHGC)			6.00
Assembly: RI	P RAP BEDDING STD 8.3.0 (RIPRP) (Unit: SY Default Quan	tity: 46.93)		
920.0070	DUMPED STONE RIPRAP R-3, R-4, 4-5 STANDARD 8.3.0	12 INCHES	0.33333	
920.0150	BEDDING FOR RIPRAP FS-2 STANDARD 8.3.0	8 INCHES	0.22222	
	TAUNTON AVE (RIPRP)			
	94+40 - 94+44 LT (RIPRP)			2.19
	96+00 - 96+18 LT (RIPRP)			16.90
	96+11 - 96+15 LT (RIPRP)			2.19
	96+46 - 96+51 LT (RIPRP)			2.19
	96+87 - 96+93 LT (RIPRP)			2.19
	97+43 - 97+50 LT (RIPRP)			2.19
	97+79 - 97+84 LT (RIPRP)			2.19
	201+40 - 201+48 (RIPRP)			16.89

	FAP Nos: STP-RESF(406)	
${\tt ItemCode}$	Description	Page
001 0001	OUTBURNS AND DISPOSING ISOLATED TREES AND STIMPS (All 2411)	1
	CUTTING AND DISPOSING ISOLATED TREES AND STUMPS (4"- 24") COMPLETE REMOVAL AND DISPOSAL OF ISOLATED STUMPS (6'' TO	1
201.0305	· ·	Τ.
201 0221	CLEARING AND GRUBBING REMOVE AND DISPOSE GRANITE CURB REMOVE AND DISPOSE CONCRETE CURB REMOVE AND DISPOSE SIDEWALKS REMOVE AND DISPOSE PAVEMENT AND RIGID BASE REMOVE AND DISPOSE FLEXIBLE PAVEMENT REMOVE AND DISPOSE CATCH BASINS REMOVE AND DISPOSE CATCH BASIN AND GUTTER INLETS REMOVE AND DISPOSE MANHOLE REMOVE AND DISPOSE PIPE - ALL SIZES	1
201.0321 201.0401	CHEARING AND DIGDOGE CDANIES CUDD	1
	REMOVE AND DISPOSE GRANITE CURB	2
201.0402	REMOVE AND DISPOSE CONCRETE CURB	2
201.0403	REMOVE AND DISPOSE SIDEWALKS	4
201.0407 201.0409	REMOVE AND DISPOSE PAVEMENT AND RIGID BASE	5
201.0409	REMOVE AND DISPOSE FLEXIBLE PAVEMENT	6
201.0410	REMOVE AND DISPOSE CATCH BASINS	6
201.0411	REMOVE AND DISPOSE CATCH BASIN AND GUTTER INLETS	6
201.0412	REMOVE AND DISPOSE MANHOLE	
201.0414	REMOVE AND DISPOSE PIPE - ALL SIZES	6
201.0418 201.0423	REMOVE AND DISPOSE HYDRANT	7
201.0423	REMOVE AND DISPOSE HANDHOLE	7
201.0428	REMOVE AND DISPOSE FRAME AND GRATE OR FRAME AND COVER	7
201.0610		8
	SERVICE, AND STREET SIGNS	_
201.0613	REMOVE AND STREET SIGNS REMOVE AND STOCKPILE LIGHT STANDARDS REMOVE AND DISPOSE LIGHT STANDARD FOUNDATIONS LOAD AND HAUL SOLID WASTE	9
201.0616 201.0720	REMOVE AND DISPOSE LIGHT STANDARD FOUNDATIONS	9
201.0720	LOAD AND HAUL SOLID WASTE	9
201.0730	DISPOSE SOLID WASTE	9
202.0100	EARTH EXCAVATION	10
202.0400	MUCK EXCAVATION	10
202.0700	COMMON BORROW GRAVEL BORROW ** ITEM DELETED **	11
202.0800	GRAVEL BORROW	11
202.9910	LOAD AND HAUL SOLID WASTE DISPOSE SOLID WASTE EARTH EXCAVATION MUCK EXCAVATION COMMON BORROW GRAVEL BORROW ** ITEM DELETED ** LOAD AND HAUL CONTAMINATED SOIL, TYPE 1 DISPOSAL OF CONTAMINATED SOIL, TYPE 1 LOAD AND HAUL CONTAMINATED SOIL, TYPE 2 DISPOSAL OF CONTAMINATED SOIL, TYPE 2 LOAD, HAUL, AND DISPOSE CONTAMINATED SOIL, TYPE 3 SOIL SAMPLING ** ITEM DELETED ** TRIMMING AND FINE GRADING	11
202.9914	LOAD AND HAUL CONTAMINATED SOIL, TYPE 1	11
202.9915	DISPOSAL OF CONTAMINATED SOIL, TYPE 1	12
202.9916	LOAD AND HAUL CONTAMINATED SOIL, TYPE 2	12
202.9917	DISPOSAL OF CONTAMINATED SOIL, TYPE 2	12
202.9918	LOAD, HAUL, AND DISPOSE CONTAMINATED SOIL, TYPE 3	12
202.9919	SOIL SAMPLING	12
203.0530	** ITEM DELETED **	13
204.0100	TIMEMATIN THE PARTY OF THE PART	13
206.0220	SILT FENCE STANDARD 9.2.0	18
206.0301 206.9901	COMPOST FILTER SOCK	19
206.9901	ROLLED EROSION CONTROL PRODUCT	20
207.0300	COMPOST FILTER SOCK DITCH AND SWALE EROSION CHECK	20
208.0100	DEWATERING BASIN STANDARD 9.7.0	20
209.0200	SACK INSERT CATCH BASIN INLET PROTECTION	21
211 0100	CONSTRUCTION ACCESSES STANDARD 9.9.0	22
211.0100	MAINTENANCE AND CLEANING OF EROSION AND POLLUTION CONTROLS	
212.2100 302.0100	GRAVEL BORROW SUBBASE COURSE	23
302.0100	CRUSHED STONE PARKING APRON	28
401.1000	CLASS 19.0 HMA	28
401.3100	MODIFIED CLASS 9.5 HMA	29
401.4003	CLASS 4.75 HMA FOR PATCHING	30
401.4003	ASPHALT EMULSION TACK COAT	33
502.1000	FULL DEPTH CLEANING AND SEALING OF JOINTS AND CRACKS 2-	
DON'TOOO	1/2" NOM. WIDTH OR LESS IN PCC PAVEMENT	J #
602 1000	CONTROLLED LOW STRENGTH MATERIAL	34
603.1000 701.0412	REINFORCED CONCRETE PIPE M 170 CLASS III 12 INCH	37
101.0412	VETHIOKCED COMCYETE LILE M ILO CEMPO III IN INCH	J.

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ItemCode	Description	Page
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701.0424	REINFORCED CONCRETE PIPE M 170 CLASS III 24 INCH	
701.0612	REINFORCED CONCRETE PIPE M 170 CLASS V 12 INCH	
701.0618	REINFORCED CONCRETE PIPE M 170 CLASS V 18 INCH	38
701.0636		38
701.6012 701.6018	12 INCH DUCTILE IRON SEWER SAFE PIPE CLASS 52	39
701.6018	18 INCH DUCTILE IRON SEWER SAFE PIPE CLASS 52	39
701.6024	24 INCH DUCTILE IRON SEWER SAFE PIPE CLASS 52	40
701.7712	2.3.0	
701.7718	2.3.0	
701.7724	2.3.0	
701.7736		
701.8003	PIPE BEDDING CLASS C	41
702.0511	PIPE BEDDING CLASS C FRAME AND COVER STANDARD 6.1.0 FRAME AND GRATE, HIGH CAPACITY, STANDARD 6.3.4 FRAME AND GRATE, STANDARD 6.3.2 FRAME AND COVER STANDARD 6.2.0 FRAME AND COVER STANDARD 6.2.1 GRANITE INLET STONE 38'' STANDARD 7.3.6 GRANITE APRON STONE 5FT. STANDARD 7.3.7 PRECAST CATCH BASIN 4' DIAMETER STANDARD 4.4.0 DEPERAMENTAL AND ADDRESS AND APROLEMANCE AND APPLICANT MANUALE AND ADDRESS AND ADDRESS AND APPLICANT MANUALE AND ADDRESS AND ADDRES	42
702.0516	FRAME AND GRATE, HIGH CAPACITY, STANDARD 6.3.4	42
702.0517	FRAME AND GRATE, STANDARD 6.3.2	43
702.0521	FRAME AND COVER STANDARD 6.2.0	44
702.0522	FRAME AND COVER STANDARD 6.2.1	44
702.0541	GRANITE INLET STONE 38'' STANDARD 7.3.6	44
702.0542	GRANITE APRON STONE 5FT. STANDARD 7.3.7	45
702.0605	PRECAST CATCH BASIN 4' DIAMETER STANDARD 4.4.0	46
702.0630	FRECASI MANITORE 4 DIAMETER DIAMPARD 4.2.0	20
702.0640	PRECAST MANHOLE 6' DIAMETER STANDARD 4.2.2	46
702.0705		47
702.0714	PRECAST CONCRETE DROP INLET WITH APRON STONE STANDARD 4.5.2	
702.0725	SOLID BLOCK SHALLOW DOUBLE GRATE CATCH BASIN STANDARD 3.5.2	47
702.9901	STORMWATER TREATMENT UNIT (JFF-1)	47
		48
702.9902 702.9903	WATER QUALITY STRUCTURE (CDS)	48
702.9905	PRECAST MANHOLE 4' DIAMETER STANDARD 4.2.0 WITH WEIR	48
702.9999	MISCELLANEOUS DRAINAGE REPAIRS	48
704.0100	MISCELLANEOUS DRAINAGE REPAIRS RECONSTRUCT CATCH BASIN/CORBEL CONES RECONSTRUCT CATCH BASIN/VERTICAL WALLS RECONSTRUCT MANHOLE/VERTICAL WALLS	48
704.0300	RECONSTRUCT CATCH BASIN/VERTICAL WALLS	49
704.0400	RECONSTRUCT MANHOLE/VERTICAL WALLS	49
706.9000	PLUG AND CAP PIPE ALL SIZES	49
707.0900	ADJUST MANHOLES TO GRADE	49
707.1000	ADJUST SANITARY MANHOLE	50
707.1100	ADJUST CATCH BASINS	50
707.1900	ADJUST FRAME & COVER TO GRADE	50
707.2000	ADJUST FRAME AND GRATE TO GRADE	51
708.9040	CLEANING AND FLUSHING PIPE ALL SIZES	51
708.9041	CLEANING CATCH BASINS ALL TYPES AND SIZES	52
708.9042	CLEANING MANHOLES ALL TYPES AND SIZES	52
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713.8268	ADJUST CURB STOP BOX TO GRADE	54
713.8269	ADJUST WATER GATE BOXES TO GRADE	54
713.8300	ADJUST GAS GATE BOXES TO GRADE	54
714.8163	POST TYPE HYDRANT	55

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903 0206	CHAIN LINK FENCE 6' STD 31.2.0	55
903.0233	DOUBLE GATE, CHAIN LINK 6' STANDARD 31.2.0	55
905.0231	PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD 43.1.0	55
905.0110	STEEL BOLLARD CHAIN LINK FENCE 6' STD 31.2.0 DOUBLE GATE, CHAIN LINK 6' STANDARD 31.2.0 PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD 43.1.0 PORTLAND CEMENT CONCRETE DRIVEWAY STANDARD 43.5.0 BIG SUELTED SLAB	57
905.9901	BUS SHELTER SLAB	58
906 0110	GRANITE CURB, QUARRY SPLIT STRAIGHT, STANDARD 7.3.0	58
906.0118	6' GRANITE TRANSITION CURB, QUARRY SPLIT SPECIAL	58
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906.0119	3' GRANITE TRANSITION CURB STANDARD 7.3.1	59
906.0130	GRANITE RAMP STONE STRAIGHT STANDARD 7.3.9	60
906.0131	3' GRANITE TRANSITION CURB STANDARD 7.3.1 GRANITE RAMP STONE STRAIGHT STANDARD 7.3.9 GRANITE RAMP STONE CIRCULAR STANDARD 7.3.9 BITUMINOUS BERM STANDARD 7.5.1	60
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906.0700	REMOVE, HANDLE, HAUL TRIM RESET CURB EDGING, STRAIGHT, CIRCULAR ALL TYPES	61
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919.9901		63
920 0070	DIMPED STONE RIPRAP R-3, R-4, 4-5 STANDARD 8.3.0	63
920.0070 920.0150	BEDDING FOR RIPRAP FS-2 STANDARD 8.3.0	64
920.0130	FILTER STRIP	64
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923.0105		65
022.0105	DIACTIC DIDE TYPE III BARRICADE CTANDARD 26 3 1	65
923.0125	PLASTIC PIPE TYPE III BARRICADE STANDARD 26.3.1 FLUORESCENT TRAFFIC CONES STANDARD 26.1.0 ADVANCE WARNING ARROW PANEL PORTABLE CHANGEABLE MESSAGE SIGN FIELD OFFICE	65
024 0112	ADVANCE WADNING ADDOW DANET.	65
924.0113	DODUNDIE CUNNCENDIE MEGGNCE GICN	65
020.0112	FIELD OFFICE	66
929.0110	CLEANING AND SWEEPING PAVEMENT	66
931.0110	CHEMITING WIND EMPERTING ENTERINE	66
932.0200		
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932.0230	SIDEWALK/DRIVEWAY	00
935.0400	REMOVING BITUMINOUS PAVEMENT BY MICRO MILLING	69
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937.0200	MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION	69
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999.9902	REMOVE AND REPLACE BUS SHELTER (SIDEWALK)	70
L01.0102	LOAM BORROW 4 INCHES DEEP	70
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T15.1000	STREET SIGN ASSEMBLY STD. 24.6.1	74
T20.0704	4 INCH WHITE WATERBORNE PAINT PAVEMENT MARKINGS	75

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T20.0904	4 INCH YELLOW WATERBORNE PAINT PAVEMENT MARKINGS	76
T20.0912	12 INCH YELLOW WATERBORNE PAINT PAVEMENT MARKINGS	76
T20.1401	WATERBORNE PAINT PAVEMENT MARKING SYMBOL - ARROW (STRAIGHT, LEFT, RIGHT OR COMBINED) STANDARD 20.1.0	76
T20.2404	4 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS	76
T20.2406	6 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS	77
T20.2412	12 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS	77
T20.2804	4 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS	77
T20.2812	12 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS	78
T20.4506	REMOVE PAVEMENT MARKING LINE - LESS THAN OR EQUAL TO 6 INCHES WIDE	78
T20.4508	REMOVE PAVEMENT MARKING LINE - GREATER THAN 6 INCHES WIDE	78
202.9911	HANDLING AND STOCKPILING CONTAMINATED SOILS	79
701.8100	FURNISH AND INSTALL DUCTILE IRON FITTINGS	79
906.0111		79
906.0116		
906.0120	GRANITE WHEELCHAIR RAMP CURB STANDARDS 7.3.3, 43.3.0 AND 43.3.1	80
T09.9901	SERVICE PEDESTAL AND LIGHTING SYSTEM MODIFICATIONS	80
203.9901		80
203.9951		80
920.0200	FILTER FABRIC FOR RIP-RAP	81

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Item	Item Code	FAP Nos: Description	STP-RESF(406) UM	Qty.	Pay	
No.	202.9919 Cont.	PROJECT WIDE		4.00	000e	
031	202.9319 00110.		202.9919 Total:	4.00	-	
0.43	503 0530	DEMATERING	fast			
		DAUMION AVE				
		PROJECT BIMITS			0004	0.1
		T fr even	203,8230 Potal.	* * TORT, RP WO * *		
033	204.0100	TRIMMING AND FINE GR	ADING SY			
		TAUNTON AVE				
		ROUND UP		0.70	0004	01
		TAUNTON AVE (2GRC	C)			
		200+40 LT (2GR	CC)	0.27	0004	01
		97+10 RT (2GRC	C)	0.27	0004	01
		97+79 RT (2GRC	C)	0.27	0004	01
		TAUNTON AVE (3GRT	C)			
		101+87 RT (3GR	TC)	0.17	0004	. 01
		102+17 RT (3GR	TC)	0.17	0004	. 01
		102+33 RT (3GR	TC)	0.17	0004	. 01
		102+40 LT (3GR	TC)	0.17	0004	01
		102+60 RT (3GR	TC)	0.17	0004	01
		102+77 LT (3GR	RTC)	0.17	0004	01
		84+59 LT (3GRI	C)	0.17	0004	01
		84+87 LT (3GRT	C)	0.17	0004	01
		85+30 LT (3GRI		0.17	0004	1 01
		85+58 LT (3GRI	CC)	0.17	0004	1 01
		87+10 RT (3GRI	CC)	0.17	0004	1 01
		87+33 RT (3GRI	CC)	0.17	0004	1 01
		88+40 RT (3GRI	TC)	0.17	0004	1 01
		88+64 RT (3GRT	rc)	0.17	0004	1 01
		89+08 RT (3GRT	rc)	0.17	0004	1 01
		89+30 LT (3GR)	rc)	0.17	0004	1 01
		89+48 RT (3GR)	CC)	0.17	0004	1 01

		FAP Nos: S	STP-RESF	(406)			
Item No.	Item Code	Description		UM	Qty.	Pay Code	_
113	907.0200 Cont.	TAUNTON AVE					
		PROJECT WIDE			25.00	0004	01
		Item 9	07.0200	Total:	25.00	-	
114	914.5010	FLAGPERSONS		MHRS			
		TAUNTON AVE					
		PROJECT LIMITS			1,440.00	0004	01
		Item 9	914.5010	Total:	1,440.00	_	
115	914.5020	FLAGPERSONS - OVERTIME	E	MHRS			
		TAUNTON AVE					
		TAUNTON AVE			300.00	0004	01
		Item 9	914.5020	Total:	300.00	_	
116	116 919.0101	TEST PITS		EACH			
		PROJECT LIMITS					
		PROJECT LIMITS			10.00	0004	01
		Item 9	919.0101	Total:	10.00	_	
117	919.9901	TEST PITS - EXCAVATION	N	EACH			
		PROJECT LIMITS					
		PROJECT LIMITS			10.00	0004	01
		Item 9	919.9901	Total:	10.00		
118	920.0070	DUMPED STONE RIPRAP R	-3, R-4,	4-5 CY			
		STANDARD 8.3.0					
		TAUNTON AVE					
		ROUND UP			0.99	0004	01
		TAUNTON AVE (RIPRP))				
		201+40 - 201+48	(RIPRP)		5.63	0004	01
		94+40 - 94+44 L'	T (RIPRP)	0.73	0004	01
		96+00 - 96+18 L'	T (RIPRP)	5.63	0004	01
		96+11 - 96+15 L'	T (RIPRP)	0.73	0004	01

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Item	Item Code	Description	UM	Qty.	Pay	Seq.	
No.					Code	No.	
118	920.0070 Cont.	96+46 - 96+51 LT	(RIPRP)	0.73	0004	01	

		FAP Nos: STP-RESF(406)			
Item No.	Item Code	Description	UM	Qty.	Pay Code	
118	920.0070 Cont.	96+87 - 96+93 LT (RIPRP)		0.73	0004	01
		97+43 - 97+50 LT (RIPRP)		0.73	0004	01
		97+79 - 97+84 LT (RIPRP)		0.73	0004	01
		Item 920.0070 '	Total:	16.63		
119	920.0150	BEDDING FOR RIPRAP FS-2 STANDA	RD CY			
		8.3.0				
		TAUNTON AVE				
		ROUND UP		0.30	0004	01
		TAUNTON AVE (RIPRP)				
		201+40 - 201+48 (RIPRP)		3.75	0004	01
		94+40 - 94+44 LT (RIPRP)		0.49	0004	01
		96+00 - 96+18 LT (RIPRP)		3.76	0004	01
		96+11 - 96+15 LT (RIPRP)		0.49	0004	01
		96+46 - 96+51 LT (RIPRP)		0.49	0004	01
		96+87 - 96+93 LT (RIPRP)		0.49	0004	01
		97+43 - 97+50 LT (RIPRP)		0.49	0004	01
		97+79 - 97+84 LT (RIPRP)		0.49	0004	01
		Item 920.0150	Total:	10.75	-	
120	920.9901	FILTER STRIP	SY			
		TAUNTON AVE				
		94+48 LT		7.00	0004	01
		Item 920.9901	Total:	7.00	_	
121	922.0100	TEMPORARY CONSTRUCTION SIGNS	SF			
		STANDARD 29.1.0 AND 27.1.1				
		TAUNTON AVE				
		G20-2 (8)		36.00	0004	01
		R3-7R (1)		9.00	0004	01
		RI STD 27.1.1 (6)		36.00	0004	01
		W1-4 (2)		18.00	0004	. 01
		W20-1 (8)		72.00	0004	. 01

Item	Item Code	Description	UM	Qty.	Pay	Seq.
No.					Code	No.
121	922.0100 Cont.	W20-5L (2)		18.00	0004	01

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Item No.	Item Code	FAP Nos: STP-RESF (406 Description	UM	Qty.	Pay Code	_
163	906.0116 Cont.	TAUNTON AVE (2GRCC)				
		200+40 LT (2GRCC)		1.00	0004	01
		97+10 RT (2GRCC)		1.00	0004	01
		97+79 RT (2GRCC)		1.00	0004	01
		Item 906.0116 Tot	al:	3.00	-	
164	906.0120	GRANITE WHEELCHAIR RAMP CURB	EACH			
		STANDARDS 7.3.3, 43.3.0 AND 43.3.	.1			
		TAUNTON AVE				
		101+23 - 101+27 RT		1.00	0004	01
		101+69 - 101+72 RT		1.00	0004	01
		91+39 - 91+45 RT		1.00	0004	01
		92+07 - 92+10 RT		1.00	0004	01
		93+71 - 93+75 LT		1.00	0004	01
		93+71 -93+75 RT		1.00	0004	01
		97+00 - 97+03 RT		1.00	0004	01
		97+90 - 97+96 RT		1.00	0004	01
		Item 906.0120 Tot	cal:	8.00	-	
165	T09.9901	SERVICE PEDESTAL AND LIGHTING	LS			
		SYSTEM MODIFICATIONS				
		TAUNTON AVE				
		PARK AND RIDE		1.00	0004	01
		Item T09.9901 Tot	cal:	1.00		
166	203.9901	DEWATERING	LS			
		TAUNTON AVE				
		PROJECT LIMITS		1.00	0004	01
		Item 203.9901 Tot	tal:	1.00		
167	203.9951	TREATMENT OF CONTAMINATED	LS			
_3,		GROUNDWATER				
		TAUNTON AVE				
167	203.9951	GROUNDWATER	LS			

Project Name - Rt 44 - Taunton Ave (Rt 1A/114 - Mass S/L)

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
167	203.9951 Cont.	PROJECT LIMITS		1.00	0004	01
		Item 203.9951 To	otal:	1.00	-	
168	920.0200	FILTER FABRIC FOR RIP-RAP	SY			
		TAUNTON AVE				
		201+40 - 201+48		16.89	0004	01
		94+40 - 94+44 LT		2.19	0004	01
		96+00 - 96+18 LT		16.90	0004	01
		96+11 - 96+15 LT		2.19	0004	01
		96+46 - 96+51 LT		2.19	0004	01
		96+87 - 96+93 LT		2.19	0004	01
		97+43 - 97+50 LT		2.19	0004	01
		97+79 - 97+84 LT		2.19	0004	01
		Item 920.0200 To	otal:	46.93	-	