



CITY OF PROVIDENCE, RHODE ISLAND

Department: Planning and Development

RFP Title: 373 Promenade Street Improvements Construction

Opening Date: 12/05/2022

Addendum #: 1

Issue Date: 11/17/2022

The purpose of this addendum is this addendum serves to answer questions asked during the mandatory pre-bid meeting held on November 7, 2022. All bidders should reference this addendum in their responses. This Addendum also serves as notice of the bid extension date of December 5, 2022.



Department of Planning and Development
Jorge O. Elorza, Mayor | Bonnie Nickerson AICP, Director

Bid Addendum #1

373 Promenade Street Improvements Construction

Providence, Rhode Island

The information, clarifications and revisions contained in this addendum are to be incorporated as ADDENDUM NO. 1 – 373 PROMENADE STREET IMPROVEMENTS CONSTRUCTION. All referenced changes are to become part of the Contract Documents:

- The pre-bid meeting was held via Zoom on Monday, November 7, 2022 at 1:30PM. The pre-bid meeting agenda, attendees list, and responses to questions are attached.
- Replace in its entirety Appendix A: Schedule of Unit Prices with revised Appendix A (attached), which includes a fixed cost for Item Codes 202.9902 Handling, Hauling and Stockpile Management of Contaminated Soils and 805.9901 Concrete Wall Cap.
- Replace in its entirety Appendix C: Technical Specifications – Job Specific with the revised Appendix C (attached), which includes job-specific specification for Item Code 937.100 Maintenance and Movement of Traffic Protective Devices. The specification for Item Code 202.9902 Handling, Hauling and Stockpile Management of Contaminated Soils has been revised.
- Replace in its entirety Appendix D: Materials Testing and Certification Schedule with the revised Appendix D (attached).
- Replace in its entirety Appendix E: Distribution of Quantities with the revised Appendix E (attached), which includes revisions to Item Code 202.9901 Handling, Hauling and Stockpile Management of Contaminated Soils.
- Replace in its entirety Appendix K: Remedial Action Work Plan with the revised Appendix K (attached), which includes the Remedial Approval Letter.

Mandatory Virtual Pre-Bid Meeting
373 Promenade Street Improvements

November 7, 2022

The Project's construction services include, but are not necessarily limited to, construction of a channelized turn lane at the intersection of Promenade Street and Bath Street in the City of Providence, RI. These improvements include, but are not limited to, the removal of an existing retaining wall and fence; installation of new concrete sidewalk, curb ramps, and detectable warning systems; installation of a new concrete driveway; installation of new pavement and mountable truck apron; installation of drainage structures; removal and disposal of existing signs and installation of new signs; installation of pavement markings; installation of a fence and a gate and all other incidentals necessary.

This project was previously part of the Woonasquatucket River Greenway (WRG) Project that is currently under design by the City of Providence. The permits from the WRG Project apply to this project, which is why the appendices reference WRG and not 373 Promenade Street.

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

1. Contractor must show 5 years of construction experience (within the last 7 years) on road improvement projects as outlined in the Invitation to Bids.
2. For City-funded: 10% Minority Business Enterprise (MBE) AND 10% Women Business Enterprise (WBE) goals.
3. 15% Apprenticeship Utilization - Section 397 - General Provisions Contract Specific: Requires no less than 15% of total man hours worked by Apprentices. The City does not reimburse contractor for apprentice/trainee hours.
4. The City has up to 90 days from the opening of the bids to award the contract.
5. Start Date: No earlier than 5 days and no later than 10 days after approval by the Board of Contract and Supply and issuance of Notice to Proceed.
6. Completion Date: Tuesday, October 31, 2023 – all extra costs including premium time to complete by this date must be included in bid prices. No extra payments will be made to the Contractor to meet this deadline.
7. Construction Duration/Restrictions - Work on Saturdays, Sundays, and legal holidays is prohibited unless approved by the Providence Traffic Engineering Department.
8. Time Restrictions: No construction noise between 8:00PM and 7:00AM unless permitted in writing by the Director of Public Works. Night work or work on Saturdays, Sundays, and legal holidays shall be done only with the approval of the Providence Traffic Engineering Department.
9. No add alternates are included in this project.
10. Funded with Providence Capital Improvement Plan (CIP) funds. The Providence Public Building Authority Board meets once per month to review pay invoices. Invoices must be submitted to McMahon by the 15th of the month to be reviewed, approved, and forwarded to the City to be paid promptly. Processing pay invoices by the City are contingent on the following:
 1. Project site name and address
 2. Date of contract work
 3. CIP number and name
 4. Milestone of project completion or line-item percent complete in Schedule of Values
 5. Complete certified payrolls

6. Compliance with First Source Ordinance – requirements when hiring new employees for this project. Building Futures manages this program on behalf of the City and can match contractors with prospective employees who reside in the City of Providence.
 7. Apprenticeship reporting – apply for a waiver if you are not going to meet the 15% manhour goal.
 8. MBE/WBE Utilization form
 9. Partial lien releases
 10. Cost loaded progress schedule
 11. Satisfactory materials testing and certifications.
 12. Digital Progress Photos
 13. Real time Punch List Items Addressed
11. Liquidated Damages and Failure to comply
1. Maintenance and Cleaning of Erosion and Pollution Controls: \$500 per day
 2. Sidewalk – failure to restore after 7 days excavation: \$500/day/location
 3. Maintenance and Movement of Traffic Protection – \$500 per day
 4. Project Completion – \$900 per calendar day
 5. Dust Control - \$1,500 per day
12. Allowances
1. Police Details appear as an allowance. The cost is paid directly by the City. When ordered and no work occurs/contractor “no-shows”, cost will be paid by contractor, or costs deducted from contractor’s pay req.
 2. Traffic Engineering permits fees will be waived as part of this contract.
 3. \$10,000 for roadway infrastructure repair
 4. \$5,000 for curb and sidewalk repairs.
 5. \$7,500 for environmental hazards.
 6. \$10,000 for electrical, communications, gas and water works.
 7. \$5,000 for quantity adjustments
13. Coordination with other contracts
1. I-95 Northbound Viaduct Replacement
 2. Providence Water Main Replacement and Lining
 3. National Grid Main Replacement
 4. Providence Complete Streets Projects (Neighborhood Greenways)
 5. Providence Woonasquatucket River Greenway
14. Stormwater Management – City is under consent decree for RIPDES. Any violation caused by the Contractor will be forwarded to the Contractor for payment or remediation. The SWPPP is included in the contract book.
15. Permits - This project was previously part of the Woonasquatucket River Greenway (WRG) Project that is currently under design by the City of Providence. The permits from the WRG Project apply to this project, which is why the appendices reference WRG and not 373 Promenade Street. Note the following provided in the appendices: Soil Erosion and Sediment Control Plan, Operations & Maintenance Report, Remedial Action Work Plan, Soil Management Plan, CRMC and RIDEM Permits, Narragansett Bay Commission Permit, and Site Investigation Report. The Contractor shall be aware that contaminated soil has been identified in the project area. It is the Contractor’s responsibility to adhere to all the restrictions stated or implied by these permits.
16. Americans with Disabilities Act – The City is under a consent decree with the DOJ. All construction must adhere unless otherwise directed by the Engineer.
17. ROW - No stockpiles, equipment, or portable toilets in the Public ROW. Lay down areas must be off site, or on City property with a formal agreement and lease.

18. Project will be managed/inspected by outside engineers
19. Materials Testing to be supplied and paid for by City. 48-hour notice required for actions that require materials testing (concrete, asphalt, gravels). Materials testing schedule in contract book.
20. REMINDER TO SIGN THE SIGN-IN SHEET
21. Contractor is required to obtain permits from City of Providence Traffic Engineering whenever they occupy the public sidewalk or street. The fee for the permit will be waived. Two business days' notice is required on permit applications.
22. Questions regarding the bid must be submitted by Wednesday, November 16, 2022 at 12:00PM.
23. Bids due with all executed forms on by Monday, November 21, 2022 at 2:15PM.

Questions and Responses

- Question 1: There are 540 cubic yards of contaminated soil to be handled and hauled and then 884 tons of contaminated soil in secondary items. Are the contaminated soil quantities accurate? Please confirm.
- Response 1: The soil quantities have been verified and updated, where necessary. The majority of the quantity is due to the elevation change between the proposed Bath Street work and the existing parking lot behind the retaining wall.
- Question 2: Are the types of soil contaminants determined and listed in the appendix?
- Response 2: The soil contaminants are listed in the Remedial Action Work Plan, Soil Management Plan, and the Site Investigation Report.
- Question 3: Is this a lump sum or unit price bid?
- Response 3: Unit price bid.
- Question 4: Has the Rhode Island resource recovery developed a soil profile on this material?
- Question 4: They have not developed a soil profile on this material. The soil profile is being developed as part of the Woonasquatucket River Greenway project. Item Code 202.9902 Load, Haul, and Dispose of Contaminated Soil has been updated to have a fixed bid price based on the costs received from the RIRRC.
- Question 5: Is contaminated soil quantified by the ton?
- Response 5: There are two items for contaminated soils. Item Code 202.9901 Handling, Hauling and Stockpile Management of Contaminated Soils is quantified by the Cubic Yard. Item Code 202.9902 Load, Haul, and Dispose of Contaminated Soil is quantified by the Ton.
- Question 6: If it hasn't been determined if this is a solid waste material or cover, we don't know how to price it. My suggestion would be make an allowance for that and have a handle/haul/deliver item so all bidding on same.
- Response 6: An allowance of \$7,500 is included for Environmental Hazards. This allowance can be used if solid waste material needs to be disposed of.
- Question 7: Is there any other work on this project other than the intersection of Bath and Promenade?
- Response 7: No, the work is only at the intersection of Bath and Promenade.
- Question 8: Where is the Schedule of Unit Prices in the Contract Book?
- Response 8: The Schedule of Unit Prices is in Appendix A of the Contract Book. The Distribution of Quantities is in Appendix E of the Contract Book.
- Question 9: Can we have a list of attendees?
- Response 9: Yes, the list of attendees will be provided in Addendum 1.

**Mandatory Virtual Pre-Bid Meeting
373 Promenade Street Improvements**

November 7, 2022

Attendees List

Name	Company	Email
Matthew LaFazia	RICON	
Jon Trakas	Narragansett Improvement Company	jtrakas@nicori.com
David	Lucena Bros. Inc.	david@lucenabros.com
Remi Lussier	Manafort Brothers Inc.	pcalcagni@manafort.com
Fred Sarmiento	D'Ambra Construction Co., Inc.	fred@d-ambra.com
Jess Lance	City of Providence	jlance@providenceri.gov
Chris Martin	City of Providence	cmartin@providenceri.gov
Angela Saunders	McMahon	asaunders@mcmahonassociates.com
Dara Clough	McMahon	dclough@mcmahonassociates.com
Alex Bulhoes	McMahon	abulhoes@mcmahonassociates.com

GENERAL PROVISIONS – JOB SPECIFIC

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JOB SPECIFIC

CODE: 100.9901

GENERAL

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

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

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

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

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

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

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

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

JOB SPECIFIC

CODE: 101.71

SUBSTANTIAL COMPLETION

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

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

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

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

JOB SPECIFIC

CODE: 105.02

PLANS AND SHOP DRAWINGS

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

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

105.02 PLANS AND SHOP DRAWINGS. Plans shall be supplemented by Contractor-prepared Shop Drawings as necessary to control the Work and its prosecution. Shop drawings consisting of details that are not included in the Plans but required for the Work shall be furnished to the City. They shall include but not be limited to mountable truck apron, Providence Standard frame and grate, Providence Standard curbing, fence, detectable warning panel, and Providence Standard street name signs. Copies of any calculations required or used to prepare the Shop Drawings shall be furnished with the submission. Manufacturer's engineering data for prefabricated material, including that for falsework and forms shall be furnished with each set of Shop Drawings.

The Contractor shall submit to the Engineer for approval or documentation, the necessary Shop Drawings in a timely manner so as not to adversely affect the Contractor's accepted schedule. The Contractor shall not perform work for items requiring shop drawings before receiving approval of the corresponding Shop Drawings. This approval shall neither confer upon the State nor relieve the Contractor of any responsibility for the accuracy and completeness of the drawings, conformity with Contract requirements and successful completion of the Contract. Prior to approval of the Contractor's shop drawing, the Contractor bears all risk and all costs of delays for items related to the respective shop drawing.

Shop Drawings illustrate the Contractor's way it intends to carry out the work contained in the Contract and are not part of the Contract. The Contractor's submission of a Shop Drawing represents to the Engineer that the Contractor (i) coordinated the Shop Drawing with the Contract; (ii) verified and measured the field dimensions and other information; (iii) calculated all details, construction, and performance criteria; and (iv) reviewed and accepted the Shop Drawings as its means and methods.

- a. Submission of Shop Drawings. All shop drawings shall be submitted in a timely fashion such that the Contractor's accepted schedule will not be adversely impacted by the submittal process.
 1. Shop drawing submittals shall be via PDF files submitted electronically by the Contractor emailed to the contact below:

Angela Saunders, P.E.
Project Manager
asaunders@mcmahonassociates.com
508-967-3045

Each shop drawing submittal shall be accompanied by design computations, cuts from manufacturers' catalogs, and/or all other supporting technical bulletins and data. Upon the City's request, once shop drawings have been approved or approved as noted, the Contractor shall submit for the record four (4) hard copy sets of shop drawings to the City.

2. All Shop Drawings shall be stamped only by a Rhode Island Registered Professional Engineer. The stamping of Shop Drawings shall be in accordance with the applicable requirements of the Rhode Island Board of Registration for Professional Engineers, or other Boards of Professional Registration, as applicable.
- b. Approval of Shop Drawings. All shop drawings will be reviewed and returned to the Contractor for appropriate action within 45 calendar days from receipt of the submission or resubmission, or as detailed in the Contract.
1. Shop drawings that are found to be erroneous, lacking required Professional Engineer stamps, lacking information necessary to control construction, or not in conformance with accepted design criteria will be rejected and returned to the Contractor. The Contractor shall address the Engineer's comments and resubmit revised shop drawings.
 2. Shop drawings designated "Approved-As-Noted" may be used by the Contractor to commence corresponding work subject to satisfying the written conditions of the approval; such shop drawings shall be revised according to the notes (as applicable) and transmitted to the Engineer within fourteen calendar days of such approval.

There shall be no claims for additional payment by the Contractor, nor will there be an extension of time under Section 108.03 for delays resulting from resubmissions due to incomplete Shop Drawings; for the time taken by the Contractor to submit revised Shop Drawings caused by an erroneous submission; or by a previous submission either lacking the information necessary to control construction; or for not conforming to accepted design criteria. In addition, the Engineer's review time of the revised Shop Drawings will not constitute justification for an extension of time.

The Contract price shall include the cost of furnishing all Shop Drawings, including resubmissions. Shop Drawings are deemed incidental to the contract.

JOB SPECIFIC

CODE: 105.9901

CONTROL OF WORK

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

105.21 GENERAL SEQUENCE OF WORK

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

105.22 SPECIFIC SEQUENCES OF WORK

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

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

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

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

105.23 COORDINATE WITH UTILITY COMPANIES

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

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

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

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

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

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

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

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

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

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

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

105.25 SECURITY

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

105.26 DISPOSAL OF MATERIAL

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

1. Under no circumstances will any material be deposited in a freshwater or coastal wetland or regulated areas. The Contractor must obtain the permission of the Engineer prior to on site disposal of material.

2. The off-site disposal of any material will be allowed only by written permission of the property owner upon whose property the material is to be deposited. The Contractor must furnish a copy of said written permission.
3. For all off-site disposal areas, it will be the Contractor's responsibility to obtain the approval of the Department of Environmental Management, the Coastal Resources Management Council, and any other governmental agency as necessary.

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

1.05.27 "DIG SAFE" LAW

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

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

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

105.28 CONSULTANT

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

105.29 PROGRESS MEETINGS

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

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

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

105.30 CONTRACTORS WORKING HOURS

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

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

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

105.35 SCHEDULE OF VALUES

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

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

105.36 MINORITY AND WOMAN'S BUSINESS ENTERPRISES

The Contractor shall conform to the requirements of the City of Providence Code of Ordinances Section 21-52 which requires a goal of 10% of the dollar value of the Work to be performed by Minority Business Enterprise and 10% of the dollar value of the Work to be performed by Woman's Business Enterprise. The Contractor shall use his personnel and personnel of his subcontractors to reach these goals.

JOB SPECIFIC

CODE: 108.03

PROSECUTION AND PROGRESS

In accordance with **Subsection 108.03; PROSECUTION AND PROGRESS, Para. a., General Requirements, 1. Project Schedule Program**, the Schedule Level for this contract is Schedule Level C.

Project Schedule Updates.

Remove Paragraph 108.03.c.2, page AC22-74 of the Compilation 22 and replace it with the following:

2. The Contractor shall furnish meeting minutes from the previous Project Meeting, a complete and accurate report of the current progress, a printed Critical Path report, a report of the days gained or lost relative to the Substantial Completion date and any other completion dates along with detailed explanation, and a depiction of how future Work plans shall meet the Contractor completion dates. Failure to attend meetings or submit schedule updates may result in withheld Progress Payments. At each meeting, the Contractor shall provide sufficient copies of the updated schedules and documentation in the format acceptable by the Engineer.

JOB SPECIFIC

CODE: 108.1000

PROSECUTION AND PROGRESS

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

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

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

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

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

The installation of sidewalks must be completed as required by Job Specific Code 905.1000.

Substantial Completion: October 31, 2023

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

Liquidated Damages: \$900.00 per calendar day.

JOB SPECIFIC

CODE: 201.9901

REMOVE AND DISPOSE CONCRETE WALL

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

CONSTRUCTION METHODS: Prior to commencing sidewalk work near a concrete wall, the Contractor shall remove and dispose of the concrete wall legally off the project site. Any backfill required shall be gravel borrow in accordance with Subsection M.01.02 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

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

METHOD OF MEASUREMENT: “Remove and Dispose Concrete Wall” will be measured by “Linear Foot” such concrete wall removed and disposed in accordance with the Plans and/or as directed by the Engineer.

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

Capping the end of the concrete wall after being cut will be paid for under the appropriate item.

JOB SPECIFIC

CODE: 201.9902

REMOVE AND DISPOSE DECORATIVE LIGHT POLE FOOTING

DESCRIPTION: This work shall consist of removing and disposing of decorative light pole footings at the locations indicated on the Plans and/or as directed by the Engineer, all in accordance with this specification.

CONSTRUCTION METHODS: The concrete decorative light pole footings shall be removed and disposed of legally off the project site. Any backfill required shall be gravel borrow in accordance with Subsection M.01.02 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

Pull back conductors and cut conduits entering the existing footing prior to footing removal.

Where the footing is being replaced by a handhole, reuse existing conductors to splice within the new handhole. Labor and materials for restoring the circuit are incidental to this item.

All improvements, equipment, and existing surfaces disturbed, damaged or removed in performing this item of work shall be replaced to the satisfaction of the Engineer at no expense to the City. This item of work shall not commence until directed by the Engineer.

METHOD OF MEASUREMENT: “Remove and Dispose Decorative Light Pole Footing” will be measured by “Each” of such decorative light pole footing removed and disposed in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: “Remove and Dispose Decorative Light Pole Footing” shall be paid for at the contract unit price per “Each” as listed in the Proposal. The price so-stated constitutes full and complete compensation for all labor, materials, equipment, legal disposal of concrete footings, cutting of conduit, splicing of conductors, conduit to restore conduit paths, and for all other incidentals required to finish the work, complete and accepted by the Engineer.

JOB SPECIFIC

CODE: 201.9904

REMOVE AND RELOCATE BOULDER

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

CONSTRUCTION METHODS: Prior to commencing work in the area of a boulder, the Contractor shall remove and stockpile the boulder in another area within the project limits, as approved by the Engineer. The Contractor shall install the slip lane per the Plans before relocating the boulder to its final location.

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

METHOD OF MEASUREMENT: “Remove and Relocate Boulder” will be measured by “Each” such boulder removed and relocated in accordance with the Plans and/or as directed by the Engineer.

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

SECTION 202

EXCAVATION AND EMBANKMENT

All references to excavation included in the cost of the respective contract unit prices as listed in the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, shall be paid for separately under Item Code 202.9901 Handling, Hauling, and Stockpile Management of Contaminated Soils due to the presence of contaminated soils within the project area.

Any backfill included in the cost of the respective contract unit prices as listed in the standard provisions will be paid for separately under Item Code 202.0700 Common Borrow.

JOB SPECIFIC

CODE: 202.9901

**HANDLING, HAULING AND STOCKPILE MANAGEMENT
OF CONTAMINATED SOILS**

DESCRIPTION: This work consists of the work effort required to handle, haul, stockpile (if needed), and manage contaminated soils including locating a suitable stockpile location acceptable to the City that complies with the Remedial Action Work Plan (RAWP). All fees necessary to acquire right of use for the stockpile location, all material and equipment necessary to establish and dismantle the various stockpile bins including but not limited to polyethylene sheets, precast concrete barrier sections, and temporary 6' high chain link fence. The installation, maintenance and managing of erosion and dust controls. The handling, hauling, unloading, stockpiling and management of contaminated or hazardous soil from the excavation location to and within the approved stockpile/testing location. This item also includes documentation management of the contaminated soil, and restoration of the stockpile area to its original condition upon completion of the project.

All work and material shall be in accordance with the Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction, (Amended 2018) and all revisions, the RIDEM approved Soil Management Plan (SMP) and in compliance with all applicable permits.

SUBMITTALS: The Contractor shall submit a written description of their proposed soil excavation plan to the Engineer for approval. The description shall include a list of all equipment, including size and capacities, and the sequence of soil removal activities. The sequence shall identify specific excavations and earth moving operations by baseline and stations. Proposed stockpile locations and capacities shall be identified. The Contractor shall maintain copies of the soil excavation plan and operational log. The operational log shall be submitted to the Engineer daily.

The Contractor shall be responsible for the selection of a suitable stockpile location and the acquisition of the permission to use agreement, if required, for each approved stockpile location. The Contractor selected stockpile location shall be submitted and subject to the approval of the Engineer.

MATERIALS: The Contractor shall supply and utilize all required materials to adequately complete contaminated soil handling, hauling and stockpiling. Personal protective equipment shall be as specified in the Contractor's site-specific Health and Safety Plan.

CONSTRUCTION METHODS: The Contractor shall supply and utilize all required equipment to adequately place and maintain the stockpiles in a neat and orderly fashion in 325 cubic yard intervals within approved stockpile areas. All stockpiled soil shall be placed entirely on one layer of 10-mil polyethylene and be completely covered with a 6 mil layer of polyethylene, at the completion of each day. The polyethylene sheets shall overlap adjacent sheets by four feet minimum and shall be of sufficient length and width to cover each stockpile. The stockpiles shall be surrounded by precast concrete barrier sections, temporary 6' high chain link fence, and staked

compost filter socks or as approved by the Engineer. Should it be determined that additional stockpile locations are required, the materials and set-up required will be at the Contractor's expense. Additional stockpile areas selected by the Contractor shall be subject to the approval of the Engineer.

Impacted Stockpiles shall not exceed 10 feet in height or have slopes steeper than 1:1 (H:V).

If necessary, the Contractor shall furnish sand bags or other weights of sufficient quantity and weight to hold the stockpile cover in position.

The Contractor shall install the stockpile cover in a manner that minimizes wrinkles. Overlap adjacent panels of polyethylene sheeting a minimum of four feet. Place sandbags or other approved ballast on the cover to prevent uplift from wind. Ballast shall be placed along all edges and overlaps at spacing no greater than 10 feet apart.

It will be the responsibility of the Contractor to ensure that each stockpile location has been placed on and covered by the required polyethylene, and that the erosion controls are in place. It will be the Contractor's responsibility to maintain dust control as required by the SMP at the stockpile locations and at all travel routes leading to and from the stockpile areas.

The Contractor is required to have the necessary personal protective equipment available as specified in the Contractor's site-specific Health and Safety Plan and shall have access to an inventory of personal protection equipment in the event that the level of personal protection equipment needs to be upgraded.

During excavation and/or stockpiling, the Contractor shall minimize odors by methods including the use of odor suppressant shell material where necessary.

Subject to the approval of the Engineer, the Contractor may choose to implement any effective and lawful methods for handling contaminated soil encountered in the work area, provided the required handling and excavation methods are performed.

The Contractor shall assume all responsibility for the adequacy of the methods, materials, documentation, and equipment employed.

The Contractor shall place impacted materials on properly constructed and maintained stockpiles. Do not place any designated non-impacted materials in the impacted material stockpiles.

The Contractor shall prevent impacted dust from becoming airborne. Place and anchor stockpile covers at the completion of each workday and during periods of rain or wind. Cover the stockpiles whenever the stockpiles are not being used.

The Contractor shall provide run-on controls to divert storm water away from stockpiles. Collect accumulated leachate from lined stockpile areas.

The Contractor shall avoid vehicular traffic on the stockpile covers or liners.

The Contractor shall maintain the stockpile until the soil has been tested and approved for legal disposal off-site. The Contractor shall submit the disposal location to the Engineer. Refer to Item Code 202.9902 for testing requirements.

The Engineer and/or the Department's representative will inspect impacted material stockpiles frequently to verify the integrity of the stockpile liner and cover system.

All deficiencies noted by the Engineer and/or the Department's representative shall be immediately corrected to the satisfaction of the Engineer. If necessary, stockpiled material shall be relocated to another impacted material stockpile so that repairs can be made.

Each stockpile shall be visually inspected daily for damage, and immediately repaired by the Contractor.

The Contractor shall maintain an inventory of supplies required to execute the work described herein. This inventory shall be used to implement a contingency plan in the event of unexpected conditions.

Upon completion of the use of the stockpile, the contractor shall be required to remove and dispose of the polyethylene sheeting, concrete barrier, temporary fence, and compost filter socks and to restore the stockpile areas to a condition acceptable to the Engineer.

METHODS OF MEASUREMENT: "Handling, Hauling and Stockpile Management of Contaminated Soils" will be measured per "Cubic Yard" of contaminated soil in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: "Handling, Hauling and Stockpile Management of Contaminated Soils" will be paid for at the contract unit price per "Cubic Yard" as listed in the proposal. The price so stated constitutes full compensation for all labor, equipment, tools, and all other incidentals required to finish the work, complete and accepted by the Engineer.

JOB SPECIFIC

CODE: 202.9902

LOAD, HAUL, AND DISPOSE OF CONTAMINATED SOIL

DESCRIPTION: This work consists of all special handling, loading and hauling, and disposing of contaminated or hazardous soil from the project site to an off-site Industrial/Commercial property, recycling or disposal facility in accordance with RIDEM regulations for recycling/disposal of these materials and as directed by the Engineer.

During the course of the project construction, contaminated soil shall be excavated. Soil in areas of the site has been documented to be contaminated. Available analytical data is shown in the "Site Investigation Report" (SIR).

APPLICABLE LAWS AND REGULATIONS: The excavation, removal, transportation, and disposal of contaminated soil shall be conducted in accordance with the Environmental Protection Agency (EPA) and the Rhode Island Department of Environmental Management (RIDEM) regulations, the RIDEM approved Soil Management Plan (SMP), Remedial Action Work Plan (RAWP) and in compliance with all applicable permits.

The Contractor shall ensure that compliance with applicable regulations is maintained during all earthwork operations. The Contractor shall be required to maintain an operations log during the earthwork activities to include, but not be limited to, dates of earthwork activities, dates and times of field sampling, soil management observations, and tracking related to stockpile generation as well as paperwork documenting lawful off-site disposition. In addition to the above, the Contractor is responsible for erosion and pollution controls in accordance with the Soil Erosion and Sediment Control Plan (SESC), local, State and Federal regulations as well as what is included in the Contract Documents. The Contractor shall submit a summary report to the Engineer on a daily basis to document the operations associated with earthwork activities.

HEALTH AND SAFETY PLAN: The Contractor shall produce and maintain a site-specific Health and Safety Plan (HASP) in compliance with the Occupational Safety and Health Administration (OSHA) Standards defined in 29 CFR 1910.120. The project HASP shall be implemented as part of this work.

The Contractor's employees and Subcontractor's employees who will be potentially exposed to the subsurface soils in the SMP are 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 persons that will be performing the work.

If visible dust is generated, 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 assurance purposes. Level D protection shall be the minimum personal protective level for all on-site personnel.

SUBMITTALS:

Contractor shall provide a list of proposed waste haulers for approval by the Engineer. Contractor shall submit copies of all necessary permits and certifications of listed waste haulers to the Engineer before commencing the Work.

The Contractor shall submit written certification of proper transport of impacted materials and debris to the Engineer within ten working days after receipt of the documentation. Contractor shall submit copies of all waste manifests, Weigh Tickets, and bills of lading.

The Contractor shall submit a written description of his proposed soil excavation plan to the Engineer for approval. The description shall include a list of all equipment, including sizes and capacities and the sequencing of all soil removal activities, and identify all on-site and off-site stockpile locations. The sequence shall identify specific excavations and earthmoving operations by baseline and stations. Proposed stockpile locations and capacities shall be identified. The Contractor shall be required to sequence his excavation operations so as not to exceed the stockpile location capacity. The Contractor shall coordinate with the Engineer for soil testing and stockpile rotation of material for soil to be removed from the site. The Engineer will conduct soil analysis on a 325 CY (maximum) rotation.

The Contractor shall maintain copies of the soil excavation plan and operational log. The operational log shall be submitted to the Engineer daily.

Hauling Slips: The Contractor shall prepare slips to document the transportation of the soil from the project to the final disposal site. The slips shall, as a minimum, list the following information: date, truck identification, truck driver's name, approximate quantity of soil hauled, weight, disposal location, and the Engineer's signature. These slips will be prepared in duplicate. The Contractor shall retain one copy, and the second copy will be given to the Engineer at the end of each day in which soil is hauled.

Daily Trucking Log: The Contractor shall provide a Daily Trucking Log to the Engineer for approval providing information on each off-site shipment from the site, including trucking company, truck and trailer registration number, date, estimated quantity, verification of decontamination and Contractor personnel's initials. The Contractor shall fill in the Daily Trucking Log for each shipment at the time it leaves the Site. The Contractor shall not be paid for any shipment if there are discrepancies between Daily Trucking Logs and facility weigh tickets until the discrepancy is resolved, as determined by the Engineer.

The Contractor shall submit copies of the disposal facility's license verifying that the disposal facility will accept the particular contaminated and hazardous soil.

CONSTRUCTION METHODS:

Coordination with Designated Waste Management Facilities. The Contractor shall be responsible for coordinating waste shipments with the designated waste management facility.

Shipping Documentation. Shipping documentation shall be performed consistent with federal, state, and local waste management and transportation requirements and the requirements of off-site disposal facilities.

The Contractor shall prepare necessary paperwork for transportation and disposal of all materials to the appropriate waste management facilities.

A non-hazardous/hazardous waste manifest or other tracking document shall be provided by the Contractor for each individual load depending on material classification. Each manifest shall be signed by the Engineer, the truck driver as a transporter, and by the disposal facility operator.

The Contractor shall not be paid for shipments with unsigned shipping documentation.

Preparation for Transport. Contractor shall coordinate Transportation Work other work activities to maintain production rates for completion of the Work in accordance with the Construction Milestones. Slowing or stopping of work by Contractor for reason of lack of transportation or availability of shipping containers will not be acceptable.

Loading operations and hours shall be coordinated with the operating hours of landfills or other designated off-site facilities.

Contractor shall furnish and operate all vehicles and containers for transportation of impacted materials from the Project Site.

The Contractor shall load and transport all categories of impacted materials and debris. Drivers shall drive directly to disposal facility and shall not stop except in the event of an emergency.

Transportation of impacted materials and debris shall be in compliance with all pertinent regulations.

Each truck bound for the off-site disposal facility shall be covered with a heavy-duty tarpaulin secured to the top or sides of the container.

Contractor shall visually inspect each truck before it leaves the Site to ensure that the tailgate and tarp are secure.

Haul trucks shall be decontaminated on site prior to re-use for hauling anything other than material from the Site.

In the event that a loaded truck is involved in an incident that results in a release of the transported materials, the cleanup shall follow local and State spill response procedures.

Contractor shall promptly clean up any spills on haul routes, if they occur, with suitable equipment at no cost to the Project.

Contractor shall keep all haul routes and public rights of way free of any site materials due to the Contractor's operations. To this end, all Contractor trucks shall be covered, and all vehicles shall be carefully loaded to prevent site materials from coming in contact with the exterior truck surfaces.

The load weight shall be documented by the disposal facility scale Weigh Ticket. Contractor shall submit copies of all disposal facility scale Weigh Tickets to the Engineer. Unsigned scale Weigh Tickets will be rejected and the Contractor will not be paid based on these weights.

Contractor shall prevent the tracking of site materials onto public rights-of-way. Loaded trucks shall not leave the Site unless they shall arrive at the designated waste management facility before it closes. Loaded trucks shall discharge their loads at the designated waste management facility the same day they are loaded.

Truck drivers shall be required to remain inside the truck cab with the windows and doors closed during loading and at all times when inside the Exclusion Zone. Drivers shall be instructed to proceed after loading through a decontamination area to a designated area outside the Exclusion Zone where they will be permitted to exit the truck cab to secure the tarpaulin over the load.

The Contractor shall address vehicular accidents and the possible release of transported materials in the HASP.

Contractor shall obtain all required transportation permits for shipment of impacted materials and debris.

Transportation of impacted materials and debris shall be in accordance with applicable state, RCRA, USDOT, and other applicable regulations including: 40 CFR 261, 262, 263 and 49 CFR 171 through 179.

Equipment/Materials. The Contractor shall supply and utilize all required equipment to adequately complete the contaminated soil excavation. During soil excavation, staked hay bales must be installed around the excavation and the stockpiles to minimize the effects of erosion and surface run-off. Contaminated soil, if stockpiled, shall be placed on and covered with polyethylene sheeting, as described in the SMP.

The Contractor is required to have the necessary personal protective equipment available as specified in the Contractor's site-specific Health and Safety Plan and shall have access to an inventory of personal protection equipment in the event that the level of personal protection equipment needs to be upgraded.

During excavation or stockpiling, the Contractor shall minimize odors by methods including the use of odor suppressant shell material where necessary.

Contaminated Soil Excavation. The Contractor may choose and implement any effective and lawful method for handling contaminated soil encountered in the work area provided they perform the required excavation subject to the approval of the Engineer. The Contractor shall assume all responsibility for the adequacy of the methods, materials, documentation, and equipment employed.

During excavation of contaminated soil, the Contractor shall be required to control dust and sedimentation erosion. Staked compost filter socks shall be installed as shown on the Plans or as directed by the Engineer. All excavated Type 1 soils shall immediately be placed into trucks and hauled to the final location for disposal if the final location has approved the existing pre-characterization data or be stockpiled at locations selected by the Contractor and subject to the approval of the Engineer.

While engaged in contamination/hazardous materials removal, the Contractor shall be subject to on-site inspection by the Department. If the work is in violation of the requirements of this specification, the Department will issue a stop work order to be in effect immediately and until the violation is resolved. Standby time and expenses required to resolve the violation shall be at the Contractor's expense.

The Contractor shall be responsible for obtaining all necessary permits, manifests, and bill of lading documentation in conjunction with contaminated/hazardous material removal, hauling and disposition; and he shall provide timely notification of such actions as may be required by applicable federal, state regional, and/or local authorities. RIDEM shall be notified within 24 hours if an unexpected change of conditions is encountered related to the presence of hazardous wastes or material encountered at the site.

All contaminated soil shall be disposed of at an off-site recycling or disposal facility in accordance with RIDEM regulations for recycling/disposal of these materials. Profiling for disposal of contaminated material will be the responsibility of the Engineer. Additional testing and characterization required by the off-site receiving facility shall be the responsibility of the Contractor to perform at no additional cost to the City. All handling and disposal of these materials shall conform to the applicable RIDEM requirements for handling, storage, transporting, and disposal of contaminated /hazardous waste material. The Contractor shall be responsible for the submittal of material profiling data and any additional data obtained by the Contractor to the receiving facility and to RIDEM prior to the removal and final disposal of contaminated material from the site or the interim stockpile area. Where specifications, requirements, and reference documents vary, the more stringent requirements shall apply.

Stockpile soils will be analyzed by the Engineer for profiling for disposal. Data will be provided to the Contractor for disposal facility characterization. Disposal of material shall not be allowed at any facility that currently maintains a listing as a State or Federal waste site.

Excess project soil in which levels of TPH, VOCs, PAHs, and RCRA 8 metals are found to be above the RIDEM RDEC during the process of disposing excess "waste" soil from the designated off-site facilities. This soil shall be disposed at a licensed facility. Concentrations are within

disposal parameter limits allowed by the Rhode Island Resource Recovery Corporation for materials disposition at the Central Landfill in Johnston, RI as landfill cover.

METHODS OF MEASUREMENT: “Load, Haul, and Dispose of Contaminated Soil” will be measured for payment by the “Ton” of soil actually loaded, hauled and disposed of in accordance with this Special Provision and elsewhere in the Contract Documents and/or as directed by the Engineer.

BASIS OF PAYMENT: “Load, Haul, and Dispose of Contaminated Soil” will be paid for at the contract unit price per “Ton” as listed in the Proposal. The price so-stated shall constitute full and complete compensation for all labor, materials, tools, equipment, the creation and implementation of a Health and Safety Plan, the tipping fee, and all incidentals required to finish the work as described in this Special Provision and elsewhere in the Contract Documents, complete and accepted by the Engineer. The only acceptable bid price for Item Code 201.9902 shall be \$110.00 (one hundred and ten dollars) per ton. If the cost of disposing this material that is charged by the receiving facility is different (higher or lower) than \$110.00/Ton, then the price paid per ton for this item will be adjusted (higher or lower) by that difference in dollars/ton.

Any transportation fees and/or taxes associated with the hauling of the contaminated and hazardous soil are considered incidental.

The Contractor shall not be paid for any shipment if there are discrepancies between Daily Trucking Logs and facility weigh tickets until the discrepancy is resolved, as determined by the Engineer.

JOB SPECIFIC

CODE: 212.2100

MAINTENANCE AND CLEANING OF EROSION AND POLLUTION CONTROLS

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

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

JOB SPECIFIC

CODE: 501.9901

MOUNTABLE TRUCK APRON

DESCRIPTION: Work under this item shall consist of the installation of an integrally colored and stamped Portland Cement Concrete truck apron, as indicated on the Plans and/or as directed by the Engineer, all in accordance with the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

MATERIALS:

Concrete. The Portland cement concrete shall be Class XX in accordance with Section 601 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, 601.9901 of the Job Specific specifications, and as modified herein.

Coloring Agent. The coloring agent for integrally colored concrete shall meet the requirements of ASTM C 979 and be approved by the Engineer. Coloring agents shall be used in accordance with manufacturer's recommendations. The final hydrated concrete color shall match L.M. Scofield Company's Chromix Integral Color Admixture – *Sorrento Red* (#5059) or an approved equal. It shall not contain calcium chloride.

Color Hardener. Color hardener shall be ready-to-use, dry-shake type color hardener and shall be streak-free intergrind of pigments, surface conditioning and dispersing agents and Portland cement blended with an approved graded aggregate as specified by the manufacturer. It shall not contain calcium chloride. Color hardener shall meet ASTM C 979 for color stability and shall match L.M. Scofield Company's Lithochrome Color Hardener *Brick Red* (A-26) or an approved equal. Application rate shall be as recommended by the manufacturer.

Antiquing Release Agent. The Antiquing Release Agent shall be a powdered, colored, bond-breaker formulated to break the bond between mat-type concrete texturing tools and the surface of the color-hardened concrete while producing a variegated or mottled appearance. The release agent color shall match L.M. Scofield Company's Lithochrome Antiquing Release – *Deep Charcoal* (A-21) or an approved equal. The release agent shall meet ASTM C 979 for color stability and shall be applied at the rate recommended by the manufacturer.

All coloring, hardening, release agents, sealing, and sealant materials shall be from a single source manufacturer and shall be color coordinated as described herein.

Surface Penetrating Sealer. The surface penetrating sealer shall be specifically required/recommended by the color hardener manufacturer. All materials are subject to the approval of the Engineer. The sealer shall meet the following performance criteria, based on application of the solution in accordance with the manufacturer's recommended procedures and rates:

1. A water miscible, penetrating, salt and liquid repellent treatment that will provide internal steel corrosion protection.

2. Treatment shall not affect skid resistance or surface texture.
3. Treated concrete surfaces submitted to an ASTM C-642 moisture absorption test or two percent (2%) in fifty (50) days shall not absorb more than one percent (1%) moisture in forty-eight (48) hours.
4. Treated concrete surfaces subjected to a ninety (90) day chloride ion penetration test (AASHTO T-259, T-260) shall not permit the penetration of more than one and one-half (1.5) pounds of chlorides per cubic yard of concrete at the one-sixteenth (1/16) to one-half (1/2) inch depth and no more than three quarters (0.75) of a pound of chloride per cubic yard at the one-half (1/2) to one (1) inch depth.
5. Surface preparation shall be in accordance with the manufacturer's recommendations.
6. Treatment shall not affect the normal vapor permeability of the substrate.

Curing Compound. The curing compound shall be as recommended by the color manufacturer. It shall not affect the skid resistance of the surface.

Combined curing compound and sealer systems are available from concrete color manufacturers. Usage shall be in accordance with the manufacturer's recommendations and must be approved by the Engineer prior to use.

Expansion Joint. Pre-formed joint filler, bituminous type, shall conform to Subsection M.02.11 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

Joint Sealant. Joint sealant shall be high quality, polyurethane based, having a 97% non-volatile content and a combined weight of 12.1 pounds per gallon.

Sealant color shall match color hardener. All sealant materials must be certified that they have been tested for their effect on freeze/thaw durability in accordance with ASTM C-666 or C-672 and have passed with satisfactory results.

Reinforcement. Shall be 6 x 6 – W6xW6 welded wire fabric, plain, and shall be in accordance with Sections 501 and M.05.02.1 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

Forms. Set forms to the required grades and lines, as shown on the Plans, rigidly braced and secured. Install sufficient quantity of forms to allow continuous progress of work so that forms can remain in place at least twenty-four (24) hours after concrete placement.

Pattern. The stamped surface shall be a running bond pattern from a straight reference line. The pattern is shown on the Plans.

Imprinting Texturing Tools. Shall be mat-type tools of a high quality to produce brick patterns as produced by Lithotex Pavcraters New Brick Running Bond Pattern #2010 (tool size 36" x 16") and New Brick Soldier Border #2150 (tool size 8" x 32") or approved equal. A corresponding single brick imprinting tool shall be used as necessary in conjunction with the larger tools to create the pattern where the full tool cannot fit due to obstructions or geometry. The manufacturer of such tools shall have provided adequate training to the Contractor/workers who will be performing the work. The Contractor shall submit documentation of tool manufacturer training to the Engineer sufficiently in advance of performing the trial run to allow for review and approval.

Color-Modified Concrete Mix Design and Approval Process. Proportioning and testing of the concrete components and mixture shall be accomplished by using the methods described in Section 601 of RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions and 601.9901, Integrally Colored Concrete of these Job Specific specifications.

SUBMITTALS IN ADDITION TO THOSE REQUIRED UNDER SECTION 601 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions:

1. Coloring Agent
2. Color Hardener
3. Release Agent
4. Curing Compound
5. Joint sealant
6. Surface Penetrating Sealer
7. Project references, personnel qualifications and proof of training
8. Special finishing methods used to obtain the desired concrete texture.

Trial Run. During the trial run, the Contractor shall prepare a field sample, no less than 20 square feet (4' x 5') in size. This sample shall not be part of the permanent pavement area. The field sample shall include 90% patterned area impressed from full patterns and 10% patterned area using the small/single imprinting tools and methods to match the full formed area. An approved trial run must occur at least one month before the scheduled permanent concrete placement.

CONSTRUCTION METHODS: Construction shall be in accordance with Section 501 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, with the following additions:

The Mountable Truck Apron will be constructed to allow for one lane of travel at all times. The scheduled days for construction and subsequent closure for curing shall be as approved by the Engineer.

Handling and Placement. The Contractor is advised that the specified, color-modified concrete may result in an accelerated initial concrete set. The Contractor shall take proper precautions to conduct all handling, testing, stamping, curing, and sealing of concrete in accordance with the RI Standard Specifications and the respective manufacturer's recommendations. During concrete operations in hot weather, the Contractor shall take measures, with the approval of the Engineer, to reduce hazards such as increased rate of cement hydration, flash set, loss of water due to

evaporation, high concrete ingredient temperatures, and the increased difficulty of concrete placing and finishing. Any concrete admixture modifications proposed by the Contractor must be submitted in writing to the Engineer for approval.

Experienced Personnel. The installation, coloring, finishing, patterning, and related activities are operations requiring a thorough knowledge of the properties of concrete, the characteristics of the coloring and patterning process, and experience with these methods. Only skilled and experienced artisans shall be employed to complete this item of work. Specifically, the placement crew's chief/foreman shall remain the same person from approval of the sample(s) through the completion of the entire work item.

The Contractor shall provide conclusive proof that the personnel assigned to this task have previously produced and, are qualified to create such textured paving while complying with the provisions of the Contract Documents. Proof shall consist of at least three high quality installations similar to that specified herein. Qualification information shall be submitted within sixty (60) days of receiving the Notice to Proceed. It is the responsibility of the Contractor to ensure that any subcontractor he intends to use for this work is pre-qualified in accordance with these Specifications.

Sawcut and Pavement Removal. For the installation of the mountable granite curb and the Mountable Truck Apron, the existing pavement shall be sawcut, removed and legally disposed to the depth and width indicated on the Contract Plans and/or as directed by the Engineer. This work shall be in accordance with Subsection 201.03.7 and 932.03 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

Concrete Placement. No concrete under this item shall be placed when weather conditions indicate precipitation can occur before the stamped concrete has attained final set. Place only that amount of concrete that can be completely finished and patterned in accordance with these specifications. Concrete which becomes too stiff for the proposed patterning shall be removed and disposed by the Contractor and replaced in accordance with the plans, these specifications, and/or as directed by the Engineer. Concrete removed, disposed, and replaced shall be at the Contractor's expense. Do not place concrete until subbase and forms have been checked for line and grade. Moisten subbase to provide uniform dampened condition at time concrete is placed. Deposit and spread concrete in continuous operation between transverse joints. Do not place concrete around manholes or other structures until they are at the required finish elevation and alignment.

Joints. General—Construct expansion, weakened-plane (contraction), and construction joints true-to-line with face perpendicular to surface of concrete. Construct transverse joints at right angles to the center line, unless otherwise indicated.

When joining existing structures, place transverse joints to align with previously placed joints, unless otherwise indicated.

Weakened-Plane (Contraction) Joints. Provide weakened-plane joints, sectioning concrete into areas as shown on the Plans. Layout of joints shall be approved on site by the Engineer in advance of joint creation. Construct weakened-plane joints for a depth equal to at least 1/4 of the total

concrete thickness either by sawcutting or by embedding strips of flexible PVC into the plastic concrete. PVC strips shall be carefully removed after the concrete has set. The joints shall be sealed using an approved sealant.

Construction Joints. Place construction joints at the end of placements and at locations where placement operations are stopped for a period of more than one hour, except where such placements terminate at expansion joints. Construct joints as shown or, if not shown, use standard metal keyway section forms. The Contractor shall receive written approval from the Engineer prior to introducing construction joints into the work that are not shown on the Plans.

Expansion Joints. Provide pre-molded joint filler for expansion joints abutting granite curbs, catch basins, manholes, inlets, structures, walks, and other fixed objects, unless otherwise indicated in the Contract Documents or directed by the Engineer.

1. Extend joint filler full-width/length and depth of joint and not less than ¼” or more than 1’ below finished surface where joint sealer is indicated. If no joint sealer is indicated, place top of joint filler flush with finished concrete surface.
2. Furnish joint fillers in one-piece lengths for full width being placed, wherever possible. Where more than one length is required, lace or clip filler sections together.
3. Protect top edge of joint filler during concrete placement with a metal cap or other temporary material approved by the Engineer. Remove protection after concrete has been placed on both sides of the joint.
4. Seal joints in accordance with the sealant manufacturer's recommendations and/or as directed by the Engineer.

Primary Concrete Finishing. Primary finishing shall be in accordance with Section 501 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

Special Concrete Finishing. After completion of floating, the entire surface shall be finished as follows:

1. Color hardener shall be applied evenly to the plastic surface by the dry-shake method using a minimum of sixty (60) pounds and a maximum of seventy (70) pounds per 100 square feet or as required by the manufacturer. It shall be applied in two or more applications, floated after each, and troweled only after the final floating.
2. Fresh concrete shall be carefully and continuously monitored and tested during partial setting up so that proper consistency for patterning is achieved. Air temperature, humidity, wind conditions, and other factors affecting setting rate shall be considered in determining the start of patterning operations.
3. Release agent shall be applied evenly to surface.

4. While the concrete is still in the plastic stage of set, the imprinting tools shall be applied to create the surface pattern.
 - a. Full patterns shall be used to the maximum extent possible. Care shall be taken to ensure continuity of the pattern and to maintain proper relationships with direction of travel, edges, joints, edging/curbing and other controlling factors.
 - b. Where full patterns cannot be used, such as at corners, narrow areas, angles, ramps or obstructions, hand detailing tools and methods shall be used to continue the intended pattern to the limit of the area. The hand-tooled areas shall closely match the pattern and workmanship of the area that was stamped using the full-size imprinting tool.
 - c. Do not smooth edges of the work or around obstructions with an edging tool but rather, allow the stamped pattern to abut such areas.

Once the concrete has attained a compressive strength of 3,000 psi and a minimum of seventy-two (72) hours curing time, the surface of the concrete shall be carefully power washed to remove any debris without removing all traces of the release agent and thereafter sealed.

Repairs and Protection. The Contractor shall repair or replace broken or defective concrete as required, at no additional expense to the City.

Protect concrete from damage until acceptance of the work. Exclude traffic from pavement until the concrete has attained a compressive strength of 3,000 psi and a minimum of seventy-two (72) hours curing time. Maintain the pavement free of stains and other damage until accepted by the Engineer. Sweep concrete pavement and wash free of stains, discolorations, dirt, and other foreign material just prior to final inspection.

The Engineer shall determine when the concrete is ready to receive traffic.

METHOD OF MEASUREMENT: The accepted quantity of “Mountable Truck Apron” will be measured for payment by the “Square Yard” actually installed in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: “Mountable Truck Apron” will be paid for at the contract unit price bid per “Square Yard” as listed in the Proposal. The price so-stated constitutes full and complete compensation for all labor, tools, materials, equipment, trimming and fine grading, joint materials, contraction/expansion joint construction, steel reinforcing, sealants, sample(s), trial run, protection and all other incidentals required to finish the work, complete and accepted by the Engineer.

JOB SPECIFIC

CODE: 601.9901

INTEGRALLY COLORED CONCRETE

DESCRIPTION: This work shall consist of furnishing Portland cement concrete to which an approved coloring agent has been added complete and in place, as shown on the Plans and as directed by the Engineer. The concrete shall be of the class specified in the Plans and as approved by the Engineer.

MATERIALS: All concrete material components shall be in accordance with Section M.02 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, except as modified under this specification.

Coloring Agent. Coloring agents for integrally colored concrete shall meet the requirements of ASTM C979 and be approved by the Engineer. Coloring agents shall be used in accordance with the manufacturer's recommendations.

Form Release Agent. The Contractor shall use a material/method recommended by the coloring agent manufacturer for facilitating form release that will not cause discoloration, staining, etc. of the concrete, subject to the approval of the Engineer.

CONSTRUCTION METHODS: Construction methods shall conform to Sections 601 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, except as otherwise provided in these Specifications.

The Contractor shall observe any special treatments required for existing surfaces to which this concrete is cast, as detailed on the Plans, as directed by the Engineer and/or as called for elsewhere in these Specifications.

Color Modified Concrete Mix Design and Approval Process. Proportioning and testing of the concrete components and mixture shall be accomplished by using the methods outlined in Section 601 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions. The Contractor shall proportion the concrete mix including the coloring additives and finishing methods to obtain the desired color and texture while meeting the appropriate mixture classification requirements of Tables 1 and 2 of Section 601 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

The following information shall be added in addition to the requirements listed in Section 601 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, to be included in the laboratory test data report:

1. Coloring Agents
2. Form Release Agents
3. Special finishing methods used to obtain the desired concrete texture.

Prior to performing the concrete field trial runs the Contractor shall submit to the Engineer the proposed mix design(s) and one concrete prototype (1' x 1' x 3" min.) for each concrete classification and color/finish specified. The intent of the prototype is to demonstrate that the sample can meet the requirements for the specified concrete classification while providing the specified color. The cured prototype shall be submitted to the Engineer sufficiently in advance of production to allow for review and approval of the color of the concrete. The Contractor shall be required to submit additional prototypes as necessary to demonstrate that the sample can meet the project requirements, should previous samples be rejected.

Trial Run. After the concrete mix design and prototype(s) provided by the Contractor have been reviewed and approved by the Engineer and no exception taken, the Contractor shall conduct a trial run in accordance with the requirements listed in Section 601 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions. Prior to production, the Contractor shall conduct the trials in an off-site location using the submitted mix design and any specially approved component materials including admixtures, aggregates, color additives, finishing and curing techniques necessary to produce concrete of the specified plasticity, workability, air content, compressive strength, color, texture and any other specified concrete property.

When all specified concrete parameters have been attained, including color and texture, the Engineer will approve the proposed mix design, color and texture for production.

Curing. All curing procedures and methods shall be completed according to the color additive manufacturer's recommendations and as specified in Section 601 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, or as otherwise directed by the Engineer.

Finishing. All exposed surfaces shall be finished straight and true, closely matching the original/intended contours/lines. The final finished surfaces shall match the color and texture specified and/or as directed by the Engineer.

METHOD OF MEASUREMENT: "Integrally Colored Concrete" will not be measured separately for payment.

BASIS OF PAYMENT: "Integrally Colored Concrete" will not be paid for separately. All costs associated with carrying out the requirements of these specifications will be considered incidental to the respective items listed in the proposal.

JOB SPECIFIC

CODE: 702.9901

HIGH-CAPACITY FRAME & GRATE – PROVIDENCE STANDARD 6.3.5P

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

SUBMITTALS: The submittal requirements of this specification item include:

- A. Frame and grate.

MATERIALS: The frame and grate shall be as indicated on the Plans or as selected by the City of Providence or approved equal and shall conform to Subsection M.04.03.6 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

METHOD OF MEASUREMENT: “High-Capacity Frame & Grate – Providence Standard 6.3.5P” will be measured by “Each” such frame and grate assembly installed in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: “High-Capacity Frame & Grate – Providence Standard 6.3.5P” will be paid for at the contract unit price per “Each” as listed in the Proposal. The prices so-stated constitute full and complete compensation for all labor, materials, and equipment for providing said assemblies, and for all other incidentals required to finish the work, complete and accepted by the Engineer.

JOB SPECIFIC

CODE: 805.9901

CONCRETE WALL CAP

DESCRIPTION: This work shall consist of providing a cap or protective coating to the exposed surface of the existing concrete wall and any exposed reinforcing, which will be cut during the course of the project construction.

The required concrete wall cap or protective coating should bring the wall to a condition that will prevent accelerated deterioration at its cut location.

All work shall be performed in accordance with the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

SUBMITTALS: The Contractor shall submit a written description of the proposed system to the Engineer for approval. The description shall list all equipment and materials required to apply the protective coating or cap. Submittal documents shall also include the manufacturer's surface preparations and weather conditions necessary for successful installation of the proposed system.

MATERIALS: Following approval from the Engineer, the Contractor shall supply all required materials and tools to adequately cap the exposed surface of the concrete wall. All materials shall be used per the Manufacturer's procedures and to the Engineer's requirements.

CONSTRUCTION METHODS: The concrete wall cap will be completed at the direction of the Engineer. During installation of the concrete wall cap, exercise extreme care to prevent any damage to the remaining sections of the concrete wall. Any damage to the remaining sections of the concrete wall shall be repaired by the Contractor under the direction of the Engineer. The City will not incur any additional costs associated with such repairs.

During the placement of the concrete wall cap, extreme care is to be used to prevent any damage to the sections of the concrete wall to remain. Any damage to sections of the concrete wall to remain shall be performed by the Contractor at no additional cost to the City.

METHODS OF MEASUREMENT: "Concrete Wall Cap" will be calculated for payment by the actual cost, verified by the force account records for the concrete wall cap.

BASIS OF PAYMENT: "Concrete Wall Cap" will be paid for at the actual amount expended to complete the concrete wall cap. The estimated dollar figure for this item of work is established by the City at \$2,000 and is inserted in the proposal as an authorized amount from which payments will be drawn.

Removing and disposing existing concrete wall will be paid for under the appropriate items.

Payment will not be made for repairs to damaged areas caused by the Contractor's operations.

JOB SPECIFIC

CODE: 903.9901

CHAIN LINK FENCE STD 31.2.0 – 8’ HEIGHT

CODE: 903.9902

CHAIN LINK FENCE DOUBLE GATE STD 31.2.0 – 8’ HEIGHT

DESCRIPTION: This item shall consist of furnishing materials and performing all work necessary to install chain link fence and double gate at the locations indicated on the Plans and/or as directed by the Engineer, all in accordance with the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

MATERIALS: Chain link fence and double gate shall conform to Section 903 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

CONSTRUCTION METHODS: The Contractor shall install chain link fence and double gate at the locations shown on the Plans in accordance with Subsection Section 903 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

METHODS OF MEASUREMENT: “Chain Link Fence STD 31.2.0 – 8’ Height” will be measured by “Linear Foot” such chain link fence installed in accordance with the Plans and/or as directed by the Engineer. “Chain Link Fence Double Gate STD 31.2.0 – 8’ Height” will be measured by “Each” such chain link fence double gate installed in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: “Chain Link Fence STD 31.2.0 – 8’ Height” will be paid for at the contract unit price per “Linear Foot” as listed in the Proposal. “Chain Link Fence Double Gate STD 31.2.0 – 8’ Height” will be paid for at the contract unit price per “Each” as listed in the Proposal. The price so-stated constitutes full and complete compensation for all labor, materials and equipment, including delivery, posts, excavation, foundations, backfill, asphalt repair, and all other incidentals required to finish the work, complete and accepted by the Engineer.

JOB SPECIFIC

CODE: 905

SIDEWALKS

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

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

JOB SPECIFIC

CODE: 906.0112
GRANITE CURB PROVIDENCE STANDARD 7" STRAIGHT

CODE: 906.0113
GRANITE CURB PROVIDENCE STANDARD 7" CIRCULAR

CODE: 906.9901
PROVIDENCE STANDARD GRANITE 2'-0" RADIUS CURB RETURN

CODE: 906.9902
**GRANITE CURB RAMP TRANSITION CURB (STRAIGHT) –
PROVIDENCE STANDARD**

CODE: 906.9903
**GRANITE CURB RAMP TRANSITION CURB (CIRCULAR) –
PROVIDENCE STANDARD**

CODE: 906.9904
GRANITE RAMP STONE (STRAIGHT) – PROVIDENCE STANDARD

CODE: 906.9905
GRANITE RAMP STONE (CIRCULAR) – PROVIDENCE STANDARD

CODE: 906.9906
MOUNTABLE GRANITE CURB

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

SUBMITTALS: The submittal requirements of this specification item include:

A. Curbing.

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

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

The granite curb stockpiled under Item Code 201.0450 – Remove and Stockpile On Site Granite Curb shall be reused where possible and with the approval of the Engineer. Any stockpiled granite curb not reused and determined to be in acceptable condition by the Engineer shall be placed neatly

on pallets and delivered to the Providence Department of Public Works at 700 Allens Avenue, Providence, RI 02905. The Contractor will be responsible for protecting all stockpiled curb from damage, theft, and vandalism until delivery. Curb that is not needed by the City shall be disposed of by the Contractor.

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

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

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

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

JOB SPECIFIC

CODE: 907.1000

DUST CONTROL

DESCRIPTION: Subsection 907.05.3; Failure to Comply, of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, requires that a daily charge be deducted from monies due to the Contractor in the event the Engineer decides that dust has not been adequately controlled.

The charge for this Contract will be \$1,500.00 per day.

Appropriate precautions and means shall be exercised to prevent and control dust arising out of all construction operations from becoming a nuisance to abutting property owners or surrounding neighborhoods. Dust control shall also protect residents and staff, per best-practices industry standards. Pavements adjoining site excavation areas shall be kept broomed off and washed clean of excess materials wherever and whenever directed. Repeated daily dust control treatment shall be provided to satisfactorily prevent the spread of dust until the engineered cap construction is complete and until earth stockpiles have been removed, and all construction operations that might cause dust have been completed.

JOB SPECIFIC

CODE: 937.1000

**MAINTENANCE AND MOVEMENT OF
TRAFFIC PROTECTIVE DEVICES**

DESCRIPTION:

Subsection 937.05.2, Failure to Comply, of the Specifications requires that charges be deducted from monies due the Contractor for failure to satisfactorily maintain and remove and/or relocate traffic control devices.

a. Maintenance. If the Contractor fails to adequately and safely maintain traffic control devices along any portion of the project, a charge will be assessed as follows:

For each day the Engineer determines that the Contractor has failed to comply with the provisions of this Section, a daily charge in the amount of \$5,000.00 for first offence \$10,000.00 for any offence after that, will be deducted from monies due the Contractor.

b. Movement. If the Contractor fails to remove and/or relocate traffic control devices for compliance with the traffic-related work restrictions included in the Transportation Management Plan or to otherwise meet changes in traffic conditions, construction operations, or other conditions affecting the safety and/or mobility of the traveling public, a charge(s) will be assessed as follows:

A charge \$5,000 for first offence and \$10,000 for any subsequent offence, per instance.

And an additional \$1,000 per half hour per lane (paved shoulders will be counted as lanes) per direction of travel that travel lane(s) remain out of compliance with the Transportation Management Plan.

JOB SPECIFIC

CODE: 938.1000

PRICE ADJUSTMENTS

DESCRIPTION:

- a. **Liquid Asphalt Cement.** The Base Price of Liquid Asphalt Cement as required to implement Subsection 938.03.1 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, is \$787.50 per ton as of August 2022.

* In the case of modified asphalt binder, this price adjustment provision shall only apply to the neat liquid asphalt component. This provision shall not apply to the modifier component, manufacture, storage, transportation or other associated costs.

Current price adjustments can be found at the following web address:

<https://www.dot.ri.gov/business/contractorsandconsultants.php>

- b. **Diesel Fuel.** The Base Price of Diesel Fuel as required to implement Subsection 938.03.2 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, is \$3.8233 per gallon as of August 2022.

Current price adjustments can be found at the following web address:

<https://www.dot.ri.gov/business/contractorsandconsultants.php>

- a. **Steel.** The Base Price of Steel as required to implement Subsection 938.03.3 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions, is:

Structural Steel See Attached per pound as of June 2021;

Reinforcing Steel See Attached per pound as of June 2021;

Stainless Steel See Attached per pound as of June 2021;

Insert steel prices PDF here

JOB SPECIFIC

CODE: 999.0001

POLICE DETAILS

DESCRIPTION: This item consists of municipal or state uniformed police details as required and approved by the Providence Department of Planning and Development (PDPD) or their agent for the purpose of traffic and pedestrian control around work zones.

CONSTRUCTION METHODS: The Contractor is responsible for the scheduling of police details. The Contractor shall obtain approval from the PDPD or their agent as to the number and time frame of police details required prior to scheduling.

The PDPD will receive invoices for the police details associated with the project directly from the police department and will pay the police department directly.

METHOD OF MEASUREMENT: The amount of **POLICE DETAILS** for the bid will be per an "Allowance," which shall be an estimated cost for the entire project.

BASIS OF PAYMENT: The actual amount of compensation to the Contractor will not be compensated for this item as the City will pay the police invoices directly.

IF THE CONTRACTOR FAILS TO SHOW AND/OR PERFORM WORK ON A DAY A POLICE DETAIL WAS ORDERED, THE CONTRACTOR WILL BE RESPONSIBLE FOR PAYMENT OF THAT POLICE DETAIL.

JOB SPECIFIC

CODE: T05.9901

RETROFIT EXISTING CONDUIT INTO NEW HANDHOLE

DESCRIPTION: This item shall consist of furnishing materials and performing all work necessary to retrofit existing conduit into new lighting handholes at the locations indicated on the Plans and/or as directed by the Engineer, all in accordance with the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

MATERIALS: Handholes and conduit shall conform to Section T.05 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

CONSTRUCTION METHODS: The Contractor shall install handholes at the locations shown on the Plans in accordance with Subsection Section T.05 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

Where new handholes are retrofit into existing conduit, new sections of conduit required to restore the conduit path are incidental to the handhole installation.

METHODS OF MEASUREMENT: “Retrofit Existing Conduit into New Handhole” will be measured by “Each” handhole retrofitted in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: “Retrofit Existing Conduit into New Handhole” will be paid for at the contract unit price per “Each” as listed in the Proposal. The price so stated constitutes full and complete compensation for all labor, materials and equipment, tools, incidental conduit, and all other incidentals required to finish the work, complete and accepted by the Engineer.

JOB SPECIFIC

CODE: T15.9901

PROVIDENCE STANDARD STREET NAME SIGN

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

MATERIALS: The street name signs shall conform to the City of Providence “Wayfinding Signage Standards” prepared by Wilbur Smith Associates, dated January 2000 or the latest revision. The typeface (font) of the lettering on the street signs shall be Arial Narrow, unless otherwise approved by the Engineer and the City of Providence Department of Planning and Development. The coloring and letter sizes shall be in accordance with the Plans. All materials including sign panel, sign post, and mounting hardware shall be in accordance with Section T.15 of the RIDOT Standard Specifications for Road and Bridge Construction, Amended 2018, with all revisions.

Street name sign mountings shall be in accordance with R.I. Standard 24.6.1, unless otherwise noted on the Plans or in this specification. Each sign shall have the legend on both sides in accordance with R.I. Standard 24.6.1.

The Contractor shall develop and submit shop drawings in accordance the Job Specific Specification 105.02 to ensure proper coloring and letter sizes. For all mountings, the bracket length shall be equal to or greater than 3/4ths (75%) of the length of the sign.

The street names shall be as labeled and dimensioned on the Plans. The color scheme on the signs shall be as indicated on the Plans.

The ground mounted posts for street name signs shall be R.I. Standard 24.2.0.

CONSTRUCTION METHODS: The approximate locations of the signs are shown on the Plans, but exact locations shall be determined in the field by the Engineer and approved by Providence Traffic Engineering prior to installation.

METHODS OF MEASUREMENT: “Providence Standard Street Name Signs” will be measured per “Each” such sign actually installed in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: “Providence Standard Street Name Signs” will be paid for at the contract unit price per “Each” as listed in the Proposal. The price so stated constitutes full compensation for all labor, equipment, tools, including mounting brackets and attachment hardware, sign blades, and all other incidentals required to finish the work, complete and accepted by the Engineer.

373 PROMENADE STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
201.0301	CUTTING AND DISPOSING ISOLATED TREES AND STUMPS (4" - 24") (\$ _____) per each _____ dollars and _____ cents	1	EA	\$ _____
201.0321	CLEARING AND GRUBBING (\$ _____) per square yard _____ dollars and _____ cents	160	SY	\$ _____
201.0403	REMOVE AND DISPOSE SIDEWALKS (\$ _____) per square yard _____ dollars and _____ cents	314	SY	\$ _____
201.0409	REMOVE AND DISPOSE FLEXIBLE PAVEMENT (\$ _____) per square yard _____ dollars and _____ cents	204	SY	\$ _____
201.0419	REMOVE AND DISPOSE FENCE (\$ _____) per linear foot _____ dollars and _____ cents	179	LF	\$ _____
201.0428	REMOVE AND DISPOSE FRAME AND GRATE OR FRAME AND COVER (\$ _____) per each _____ dollars and _____ cents	2	EA	\$ _____
201.0450	REMOVE AND STOCKPILE ON SITE GRANITE CURB (\$ _____) per linear foot _____ dollars and _____ cents	293	LF	\$ _____

373 PROMENADE STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
201.0610	REMOVE AND DISPOSE DIRECTIONAL, WARNING, REGULATORY, SERVICE, AND STREET SIGNS (\$ _____) per each _____ dollars and _____ cents	3	EA	\$ _____
201.9901	REMOVE AND DISPOSE CONCRETE WALL (\$ _____) per linear foot _____ dollars and _____ cents	125	LF	\$ _____
201.9902	REMOVE AND DISPOSE DECORATIVE LIGHT POLE FOOTING (\$ _____) per each _____ dollars and _____ cents	2	EA	\$ _____
201.9904	REMOVE AND RELOCATE BOULDER (\$ _____) per each _____ dollars and _____ cents	1	EA	\$ _____
202.0700	COMMON BORROW (\$ _____) per cubic yard _____ dollars and _____ cents	80	CY	\$ _____
202.9901	HANDLING, HAULING AND STOCKPILE MANAGEMENT OF CONTAMINATED SOILS (\$ _____) per cubic yard _____ dollars and _____ cents	562	CY	\$ _____
202.9902	LOAD, HAUL, AND DISPOSE OF CONTAMINATED SOIL (\$ _____ 110) per ton One hundred ten _____ dollars and Zero _____ cents	918	TON	\$ 100,931.00

373 PROMENADE STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
204.0100	TRIMMING AND FINE GRADING (\$ _____) per square yard _____ dollars and _____ cents	689	SY	\$ _____
209.0200	SACK INSERT CATCH BASIN INLET PROTECTION (\$ _____) per each _____ dollars and _____ cents	9	EA	\$ _____
212.2100	MAINTENANCE AND CLEANING OF EROSION AND POLLUTION CONTROLS (\$ _____) lump sum _____ dollars and _____ cents	1	LS	\$ _____
302.0100	GRAVEL BORROW SUBBASE COURSE (\$ _____) per cubic yard _____ dollars and _____ cents	159	CY	\$ _____
401.1000	CLASS 19.0 HMA (\$ _____) per ton _____ dollars and _____ cents	67	TON	\$ _____
401.2100	MODIFIED CLASS 12.5 HMA (\$ _____) per ton _____ dollars and _____ cents	28	TON	\$ _____
401.3005	CLASS 9.5 HMA FOR MISCELLANEOUS WORK (\$ _____) per ton _____ dollars and _____ cents	16	TON	\$ _____

373 PROMENADE STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
401.3100	MODIFIED CLASS 9.5 HMA (\$ _____) per ton _____ dollars and _____ cents	28	TON	\$ _____
403.0300	ASPHALT EMULSION TACK COAT (\$ _____) per square yard _____ dollars and _____ cents	839	SY	\$ _____
501.9901	MOUNTABLE TRUCK APRON (\$ _____) per square yard _____ dollars and _____ cents	10	SY	\$ _____
601.0300	CLASS A PORTLAND CEMENT CONCRETE (\$ _____) per cubic yard _____ dollars and _____ cents	19	CY	\$ _____
701.5312	12 INCH DUCTILE IRON WATER PIPE CLASS 52, PUSH-ON JOINT (\$ _____) per foot _____ dollars and _____ cents	30	FT	\$ _____
702.0712	PRECAST CONCRETE DROP INLET STANDARD 4.5.0 (\$ _____) per each _____ dollars and _____ cents	1	EA	\$ _____
702.9901	HIGH CAPACITY FRAME & GRATE, PROV STD 6.3.5P (\$ _____) per each _____ dollars and _____ cents	3	EA	\$ _____

373 PROMENADE STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
704.0300	RECONSTRUCT CATCH BASIN/VERTICAL WALLS (\$ _____) per vertical linear foot _____ dollars and _____ cents	4	VLF	\$ _____
707.0950	ADJUST TELEPHONE MANHOLE TO GRADE (\$ _____) per each _____ dollars and _____ cents	1	EA	\$ _____
708.9041	CLEANING CATCH BASINS ALL TYPES AND SIZES (\$ _____) per each _____ dollars and _____ cents	9	EA	\$ _____
713.8268	ADJUST CURB STOP BOX TO GRADE (\$ _____) per each _____ dollars and _____ cents	1	EA	\$ _____
713.8269	ADJUST WATER GATE BOXES TO GRADE (\$ _____) per each _____ dollars and _____ cents	1	EA	\$ _____
805.9901	CONCRETE WALL CAP (\$ _____ 2000) lump sum Two thousand _____ dollars and zero _____ cents	1	LS	\$ 2,000.00
903.9901	CHAIN LINK FENCE STD 31.2.0 - 8' HEIGHT (\$ _____) per linear foot _____ dollars and _____ cents	234	LF	\$ _____

373 PROMENADE STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
903.9902	CHAIN LINK FENCE DOUBLE GATE 8' X 24' STD 31.2.0 - 8' HEIGHT (\$ _____) per each _____ dollars and _____ cents	1	EA	\$ _____
905.0110	PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD 43.1.0 (\$ _____) per cubic yard _____ dollars and _____ cents	34	CY	\$ _____
905.0115	PORTLAND CEMENT CONCRETE DRIVEWAY STANDARD 43.5.0 (\$ _____) per cubic yard _____ dollars and _____ cents	8	CY	\$ _____
906.0112	GRANITE CURB PROVIDENCE STANDARD 7" STRAIGHT (\$ _____) per linear foot _____ dollars and _____ cents	95	LF	\$ _____
906.0113	GRANITE CURB PROVIDENCE STANDARD 7" CIRCULAR (\$ _____) per linear foot _____ dollars and _____ cents	139	LF	\$ _____
906.0700	REMOVE, HANDLE, HAUL TRIM RESET CURB EDGING, STRAIGHT, CIRCULAR ALL TYPES (\$ _____) per linear foot _____ dollars and _____ cents	117	LF	\$ _____
906.9901	GRANITE 2'-0" RADIUS CURB RETURN - PROVIDENCE STANDARD (\$ _____) per each _____ dollars and _____ cents	2	EA	\$ _____

373 PROMENADE STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
906.9902	GRANITE CURB RAMP TRANSITION CURB (STRAIGHT) - PROVIDENCE STANDARD (\$ _____) per linear foot _____ dollars and _____ cents	6	LF	\$ _____
906.9903	GRANITE CURB RAMP TRANSITION CURB (CIRCULAR) - PROVIDENCE STANDARD (\$ _____) per linear foot _____ dollars and _____ cents	6	LF	\$ _____
906.9904	GRANITE RAMP STONE (STRAIGHT) - PROVIDENCE STANDARD (\$ _____) per linear foot _____ dollars and _____ cents	17	LF	\$ _____
906.9905	GRANITE RAMP STONE (CIRCULAR) - PROVIDENCE STANDARD (\$ _____) per linear foot _____ dollars and _____ cents	5	LF	\$ _____
906.9906	MOUNTABLE GRANITE CURB (\$ _____) per linear foot _____ dollars and _____ cents	36	LF	\$ _____
907.0200	CALCIUM CHLORIDE FOR DUST CONTROL (PROJECT WIDE) (\$ _____) per ton _____ dollars and _____ cents	1	TON	\$ _____
914.5010	FLAGPERSONS (\$ _____) per man-hour _____ dollars and _____ cents	260	MHRS	\$ _____

373 PROMENADE STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
914.5020	FLAGPERSONS - OVERTIME (\$ _____) per man-hour _____ dollars and _____ cents	52	MHRS	\$ _____
919.0101	TEST PITS (\$ _____) per each _____ dollars and _____ cents	5	EA	\$ _____
920.0200	FILTER FABRIC FOR RIP-RAP (\$ _____) per square yard _____ dollars and _____ cents	96	SY	\$ _____
922.0100	TEMPORARY CONSTRUCTION SIGNS STANDARD 29.1.0 AND 27.1.1 (\$ _____) per square foot _____ dollars and _____ cents	99	SF	\$ _____
923.0105	DRUM BARRICADE STANDARD 26.2.0 (\$ _____) per barrel-day _____ dollars and _____ cents	600	BDAY	\$ _____
923.0125	PLASTIC PIPE TYPE III BARRICADE STANDARD 26.3.1 (\$ _____) per each _____ dollars and _____ cents	20	EA	\$ _____
923.0200	FLUORESCENT TRAFFIC CONES STANDARD 26.1.0 (\$ _____) per each _____ dollars and _____ cents	20	EA	\$ _____

373 PROMENADE STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
924.0113	ADVANCE WARNING ARROW PANEL (\$ _____) per panel-day _____ dollars and _____ cents	30	PDAY	\$ _____
925.0112	PORTABLE CHANGEABLE MESSAGE SIGN (\$ _____) per panel-day _____ dollars and _____ cents	10	PDAY	\$ _____
931.0110	CLEANING AND SWEEPING PAVEMENT (\$ _____) per hundred square yard _____ dollars and _____ cents	9	HSY	\$ _____
932.0200	FULL-DEPTH SAWCUT OF BITUMINOUS PAVEMENT (\$ _____) per linear foot _____ dollars and _____ cents	313	LF	\$ _____
932.0230	FULL DEPTH SAWCUT OF PORTLAND CEMENT CONCRETE SIDEWALK/DRIVEWAY (\$ _____) per linear foot _____ dollars and _____ cents	20	LF	\$ _____
936.0100	MOBILIZATION AND DEMOBILIZATION (\$ _____) lump sum _____ dollars and _____ cents	1	LS	\$ _____
937.0200	MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION (\$ _____) lump sum _____ dollars and _____ cents	1	LS	\$ _____

373 PROMENADE STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
942.0200	DETECTABLE WARNING PANEL STANDARD 48.1.0 (\$ _____) per square foot _____ dollars and _____ cents	44	SF	\$ _____
999.0001	POLICE DETAILS (\$ _____ 90) per man-hour Ninety _____ dollars and Zero _____ cents	312	MHRS	\$ 28,080.00
L01.0102	LOAM BORROW (4") (\$ _____) per square yard _____ dollars and _____ cents	96	SY	\$ _____
L02.0102	RESIDENTIAL SEEDING (TYPE 2) (\$ _____) per square yard _____ dollars and _____ cents	96	SY	\$ _____
L05.0505	EROSION CONTROL BLANKET (\$ _____) per square yard _____ dollars and _____ cents	96	SY	\$ _____
T05.0100	PRECAST TYPE A HANDHOLE 18.2.0 (\$ _____) per each _____ dollars and _____ cents	1	EA	\$ _____
T05.0200	PRECAST TYPE H HEAVY DUTY HANDHOLE 18.2.1 (\$ _____) per each _____ dollars and _____ cents	1	EA	\$ _____

373 PROMENADE STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
T05.9901	RETROFIT EXISTING CONDUIT INTO NEW HANDHOLE (\$ _____) per each _____ dollars and _____ cents	2	EA	\$ _____
T15.0100	DIRECTIONAL REGULATORY AND WARNING SIGNS (\$ _____) per square foot _____ dollars and _____ cents	21.75	SF	\$ _____
T15.0200	REMOVE AND RELOCATE DIRECTIONAL REGULATORY AND WARNING SIGN (\$ _____) per each _____ dollars and _____ cents	3	EA	\$ _____
T15.1000	STREET SIGN ASSEMBLY STD. 24.6.1 (\$ _____) per each _____ dollars and _____ cents	2	EA	\$ _____
T15.9901	PROVIDENCE STANDARD STREET NAME SIGN (\$ _____) per each _____ dollars and _____ cents	2	EA	\$ _____
T20.0712	12 INCH WHITE WATERBORNE PAINT PAVEMENT MARKINGS (\$ _____) per linear foot _____ dollars and _____ cents	18	LF	\$ _____
T20.0904	4 INCH YELLOW WATERBORNE PAINT PAVEMENT MARKINGS (\$ _____) per linear foot _____ dollars and _____ cents	351	LF	\$ _____

373 PROMENADE STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
T20.2406	6 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS (\$ _____) per linear foot _____ dollars and _____ cents	342	LF	\$ _____
T20.2408	8 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS (\$ _____) per linear foot _____ dollars and _____ cents	95	LF	\$ _____
T20.2412	12 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS (\$ _____) per linear foot _____ dollars and _____ cents	18	LF	\$ _____
T20.2424	24 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS (\$ _____) per linear foot _____ dollars and _____ cents	245	LF	\$ _____
T20.2804	4 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS (\$ _____) per linear foot _____ dollars and _____ cents	351	LF	\$ _____
T20.2808	8 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS (\$ _____) per linear foot _____ dollars and _____ cents	85	LF	\$ _____
T20.4506	REMOVE PAVEMENT MARKING LINE - LESS THAN OR EQUAL TO 6 INCHES WIDE (\$ _____) per linear foot _____ dollars and _____ cents	77	LF	\$ _____

373 PROMENADE STREET IMPROVEMENTS

PROVIDENCE, RHODE ISLAND

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Item Description with Unit Bid Price (Written in Words and Figures)</u>	<u>Quantity</u>	<u>Unit</u>	<u>Amount</u>
T20.4508	REMOVE PAVEMENT MARKING LINE - GREATER THAN 6 INCHES WIDE (\$ _____) per linear foot	12	LF	\$ _____
	_____ dollars and			
	_____ cents			

SUBTOTAL OF ITEMS IN CONTRACT:

(\$ _____)
 _____ dollars and
 _____ cents

SUBTOTAL OF ALLOWANCES:

(\$ _____ 37,500.00)
 Thirty-seven thousand, five hundred _____ dollars and
 Zero _____ cents

TOTAL OF BID:

(\$ _____)
 _____ dollars and
 _____ cents

MATERIALS TESTING AND CERTIFICATION SCHEDULE
373 PROMENADE STREET IMPROVEMENTS
OCTOBER 2022
REVISED NOVEMBER 2022

ITEM NO.	QTY	ITEM DESCRIPTION	UOM	MINIMUM TESTING/CERTIFICATION	MIN. NO. TESTS
201.0301	1	CUTTING AND DISPOSING ISOLATED TREES AND STUMPS (4" - 24")	EA	NO TEST REQUIRED	-
201.0321	160	CLEARING AND GRUBBING	SY	NO TEST REQUIRED	-
201.0403	314	REMOVE AND DISPOSE SIDEWALKS	SY	NO TEST REQUIRED	-
201.0409	204	REMOVE AND DISPOSE FLEXIBLE PAVEMENT	SY	NO TEST REQUIRED	-
201.0419	179	REMOVE AND DISPOSE FENCE	LF	NO TEST REQUIRED	-
201.0428	2	REMOVE AND DISPOSE FRAME AND GRATE OR FRAME AND COVER	EA	NO TEST REQUIRED	-
201.0450	293	REMOVE AND STOCKPILE ON SITE GRANITE CURB	LF	NO TEST REQUIRED	-
201.0610	3	REMOVE AND DISPOSE DIRECTIONAL, WARNING, REGULATORY, SERVICE, AND STREET SIGNS	EA	NO TEST REQUIRED	-
201.9901	125	REMOVE AND DISPOSE CONCRETE WALL	LF	NO TEST REQUIRED	-
201.9902	2	REMOVE AND DISPOSE DECORATIVE LIGHT POLE FOOTING	EA	NO TEST REQUIRED	-
201.9904	1	REMOVE AND RELOCATE BOULDER	EA	NO TEST REQUIRED	-
202.0700	82	COMMON BORROW	CY	1) One (1) 50 lbs sample per source or geological change for a Proctor and gradation 2) One (1) field density test per compacted lift.	1
202.9901	540	HANDLING, HAULING AND STOCKPILE MANAGEMENT OF CONTAMINATED SOILS	CY	Testing requirements can be found in the Remedial Action Work Plan and RIDEM Remedial Decision letter.	1
202.9902	884	LOAD, HAUL, AND DISPOSE OF CONTAMINATED SOIL	TON	Testing requirements can be found in the Remedial Action Work Plan and RIDEM Remedial Decision letter.	1
204.0100	689	TRIMMING AND FINE GRADING	SY	NO TEST REQUIRED	-
209.0200	9	SACK INSERT CATCH BASIN INLET PROTECTION	EA	One (1) certificate of compliance per type, size, source, shipment, batch number, year. As applicable.	1
212.2100	1	MAINTENANCE AND CLEANING OF EROSION AND POLLUTION CONTROLS	LS	NO TEST REQUIRED	-
302.0100	159	GRAVEL BORROW SUBBASE COURSE	CY	1) One (1) 50 lbs sample per source or geological change for a Proctor and gradation 2) One (1) field density test per 1,000 CY or less.	1
401.1000	67	CLASS 19.0 HMA	TON	1) One (1) sample per 600 tons for gradation, binder content, %voids, and theoretical maximum density. 2) One (1) gyratory core per 600 tons for specific gravity test. 3) Two (2) cores per 600 tons for in-place density for mixes with pay adjustments or one (1) nuclear gauge density per 1500 tons for mixes without pay adjustments. One joint core per 3000 feet for mixes adjustments. 4) Two (2) full depth cores per lane mile and or shoulder if applicable, per type of mix for depth measurements. Cores not required on bridge decks.	1
401.2100	28	MODIFIED CLASS 12.5 HMA	TON	1) One (1) sample per 600 tons for gradation, binder content, %voids, and theoretical maximum density. 2) One (1) gyratory core per 600 tons for specific gravity test. 3) Two (2) cores per 600 tons for in-place density for mixes with pay adjustments or one (1) nuclear gauge density per 1500 tons for mixes without pay adjustments. One joint core per 3000 feet for mixes adjustments. 4) Two (2) full depth cores per lane mile and or shoulder if applicable, per type of mix for depth measurements. Cores not required on bridge decks.	1
401.3005	16	CLASS 9.5 HMA FOR MISCELLANEOUS WORK	TON	1) One (1) sample per 600 tons for gradation, binder content, % voids, and theoretical maximum density for projects with quantities over 200 tons or 5% of total contract quantity, whichever is greater. 2) One (1) gyratory core per 600 tons for specific gravity test for projects with quantities over 200 tons or 5% of total contract quantity, whichever is greater.	1
401.3100	28	MODIFIED CLASS 9.5 HMA	TON	1) One (1) sample per 600 tons for gradation, binder content, %voids, and theoretical maximum density. 2) One (1) gyratory core per 600 tons for specific gravity test. 3) Two (2) cores per 600 tons for in-place density for mixes with pay adjustments or one (1) nuclear gauge density per 1500 tons for mixes without pay adjustments. One joint core per 3000 feet for mixes adjustments. 4) Two (2) full depth cores per lane mile and or shoulder if applicable, per type of mix for depth measurements. Cores not required on bridge decks.	1

ITEM NO.	QTY	ITEM DESCRIPTION	UOM	MINIMUM TESTING/CERTIFICATION	MIN. NO. TESTS
403.0300	839	ASPHALT EMULSION TACK COAT	SY	1) One (1) 1-quart sample per project for relevant AASHTO Tests. 2) One (1) Certificate of Compliance for asphalt emulsion tack coat per source.	1
501.9901	10	MOUNTABLE TRUCK APRON	SY	Concrete Mix: 1) One (1) sample per 150 CY, and at the discretion of the Engineer each or any day's production for slump test. At the discretion of the Engineer. 2) One (1) sample per 150 CY, and at the discretion of the Engineer each or any day's production for an air content test. 3) Four (4) cylinders for less than 100 CY, six (6) over 100 CY per 150 CY, and at the discretion of the Engineer each or any day's production for compressive strength test. Portland Cement: 1) One (1) 6 lbs sample per month period per plant. One (1) random test per quarter, per type, per source, per batch. 2) One (1) Mill Test Report per source, per lot of portland cement. Course Aggregate: 1) One (1) sample per 150 CY for a gradation. Fine Aggregate: 1) One (1) sample per 150 CY for a gradation. Steel Reinforcing: 1) One (1) Mill Test Report for steel mesh per size, per source, per year. Mineral Admixture: 1) One (1) Mill Test Report per source, per (batch) lot of mineral admixture (fly ash, slag).	1
601.0300	19	CLASS A PORTLAND CEMENT CONCRETE	CY	Concrete Mix: 1) Four cylinders per 100 CY or less, six Cylinders per 150 CY, and at the discretion of the Engineer each or any day's production for compressive strength tests. 2) One sample per 150 CY, and at the discretion of the Engineer each or any day's production for an air content test. 3) One sample per 150 CY, and at the discretion of the Engineer each or any day's production for slump test. Portland Cement: 1) One (1) sample per month, per type, per source, per batch (lot). Randomly selected every three (3) months for relevant tests. 2) One (1) Mill test report per type, per batch (lot), per source. Coarse Aggregate: 1) One (1) 50 sample per 150 CY, per type for a gradation test. Fine Aggregate: 1) One (1) sample per 150 CY for a gradation. Mineral Admixture: 1) One (1) mill test report per source, per lot (batch), of mineral admixture.	1
701.5312	30	12 INCH DUCTILE IRON WATER PIPE CLASS 52, PUSH-ON JOINT	FT	Soil: 1) One (1) 50 lbs. sample per source or geological change for a proctor and gradation test. 2) One (1) field density test per 1000 CY or less. Applicable Material: 1) One (1) mill test report per size, per source, for steel or cast iron products (as applicable). 2) One (1) certificate of compliance per type, per size, per source.	1
702.0712	1	PRECAST CONCRETE DROP INLET STANDARD 4.5.0	EA	Concrete Mix: 1) Four (4) cylinders for less than 100 CY, six (6) over 100 CY per 150 CY, and at the discretion of the Engineer. 2) Any day's production for slump test. At the Engineer's discretion. 3) One (1) sample (size according to AASHTO T-152) per 150 CY, and at the discretion of the Engineer each or any day's production for an air content test. Portland Cement: 1) One (1) Mill Test Report per type, per source, per lot of portland cement. Coarse Aggregate: 1) One (1) sample per 150 CY for a gradation. Fine Aggregate: 1) One (1) sample per 150 CY for a gradation. Steel Reinforcing: 1) One (1) Mill Test Report per size, per source, per year. Soil: 1) One (1) 50 lbs sample per source or geological change for a Proctor and gradation 2) One (1) field density test per 1000 CY, per lift of embankment.	1
702.9901	3	HIGH CAPACITY FRAME & GRATE – PROVIDENCE STANDARD 6.3.5P	EA	One (1) certificate of compliance for applicable materials and installation.	1
704.0300	4	RECONSTRUCT CATCH BASIN/VERTICAL WALLS	VLF	Brick:	1

ITEM NO.	QTY	ITEM DESCRIPTION	UOM	MINIMUM TESTING/CERTIFICATION	MIN. NO. TESTS
				1) One (1) sample of 15 bricks of each type, per source, per project. Five (5) randomly selected bricks will be tested for absorption and compressive strength tests as applicable. Mortar Cement: 1) One (1) set of three (3) compressive strength samples per project, per source, per type, for compressive strength tests. Block: 1) One (1) sample of 3 blocks of each type, per source, per project for absorption and compressive strength tests as applicable.	
707.0950	1	ADJUST TELEPHONE MANHOLE TO GRADE	EA	Brick: 1) One (1) sample of 15 bricks of each type, per source, per project. Five (5) randomly selected bricks will be tested for absorption and compressive strength tests as applicable. Mortar Cement: 1) One (1) set of three (3) compressive strength samples per project, per source, per type, for compressive strength tests. Block: 1) One (1) sample of 3 blocks of each type, per source, per project for absorption and compressive strength tests as applicable.	1
708.9041	9	CLEANING CATCH BASINS ALL TYPES AND SIZES	EA	NO TESTS REQUIRED	-
713.8268	1	ADJUST CURB STOP BOX TO GRADE	EA	NO TESTS REQUIRED	-
713.8269	1	ADJUST WATER GATE BOXES TO GRADE	EA	NO TESTS REQUIRED	-
805.9901	1	CONCRETE WALL CAP	LS	NO TESTS REQUIRED	-
903.9901	234	CHAIN LINK FENCE STD 31.2.0 – 8' HEIGHT	LF	One (1) certificate of compliance for applicable materials and installation.	1
903.9902	1	CHAIN LINK FENCE DOUBLE GATE 8' X 24' STD 31.2.0 – 8' HEIGHT	EA	One (1) certificate of compliance for applicable materials and installation.	1
905.0110	34	PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD 43.1.0	CY	Concrete Mix: 1) Four cylinders per 100 CY or less, six Cylinders per 150 CY, and at the discretion of the Engineer each or any day's production for compressive strength tests. 2) One sample per 150 CY, and at the discretion of the Engineer each or any day's production for an air content test. 3) One sample per 150 CY, and at the discretion of the Engineer each or any day's production for slump test. Portland Cement: 1) One (1) sample per month, per type, per source, per batch (lot). Randomly selected every three (3) months for relevant tests. 2) One (1) Mill test report per type, per batch (lot), per source. Coarse Aggregate: 1) One (1) 50 sample per 150 CY, per type for a gradation test. Fine Aggregate: 1) One (1) sample per 150 CY for a gradation. Mineral Admixture: 1) One (1) mill test report per source, per lot (batch), of mineral admixture.	1
905.0115	8	PORTLAND CEMENT CONCRETE DRIVEWAY STANDARD 43.5.0	CY	Concrete Mix: 1) Four cylinders per 100 CY or less, six Cylinders per 150 CY, and at the discretion of the Engineer each or any day's production for compressive strength tests. 2) One sample per 150 CY, and at the discretion of the Engineer each or any day's production for an air content test. 3) One sample per 150 CY, and at the discretion of the Engineer each or any day's production for slump test. Portland Cement: 1) One (1) sample per month, per type, per source, per batch (lot). Randomly selected every three (3) months for relevant tests. 2) One (1) Mill test report per type, per batch (lot), per source. Coarse Aggregate: 1) One (1) 50 sample per 150 CY, per type for a gradation test. Fine Aggregate: 1) One (1) sample per 150 CY for a gradation. Mineral Admixture: 1) One (1) mill test report per source, per lot (batch), of mineral admixture.	1
906.0112	95	GRANITE CURB PROVIDENCE STANDARD 7" STRAIGHT	LF	One (1) certificate of compliance for applicable materials and Installation.	1
906.0113	139	GRANITE CURB PROVIDENCE STANDARD 7" CIRCULAR	LF	One (1) certificate of compliance for applicable materials and installation.	1
906.0700	117	REMOVE, HANDLE, HAUL TRIM RESET CURB EDGING, STRAIGHT, CIRCULAR ALL TYPES	LF	NO TEST REQUIRED	-
906.9901	2	GRANITE 2'-0" RADIUS CURB RETURN - PROVIDENCE STANDARD	EA	One (1) certificate of compliance for applicable materials and installation.	1

ITEM NO.	QTY	ITEM DESCRIPTION	UOM	MINIMUM TESTING/CERTIFICATION	MIN. NO. TESTS
906.9902	6	GRANITE CURB RAMP TRANSITION CURB (STRAIGHT) - PROVIDENCE STANDARD	LF	One (1) certificate of compliance for applicable materials and installation.	1
906.9903	6	GRANITE CURB RAMP TRANSITION CURB (CIRCULAR) - PROVIDENCE STANDARD	LF	One (1) certificate of compliance for applicable materials and installation.	1
906.9904	17	GRANITE RAMP STONE (STRAIGHT) - PROVIDENCE STANDARD	LF	One (1) certificate of compliance for applicable materials and installation.	1
906.9905	5	GRANITE RAMP STONE (CIRCULAR) - PROVIDENCE STANDARD	LF	One (1) certificate of compliance for applicable materials and installation.	1
906.9906	36	MOUNTABLE GRANITE CURB	LF	One (1) certificate of compliance for applicable materials and installation.	1
907.0200	1	CALCIUM CHLORIDE FOR DUST CONTROL (PROJECT WIDE)	TON	One (1) certificate of compliance per type, per source.	-
914.5010	260	FLAGPERSONS	MHRS	NO TEST REQUIRED	-
914.5020	52	FLAGPERSONS - OVERTIME	MHRS	NO TEST REQUIRED	-
919.0101	5	TEST PITS	EA	NO TEST REQUIRED	1
920.0200	96	FILTER FABRIC FOR RIP-RAP	SY	One (1) sample per type, per source for specific gravity.	1
922.0100	99	TEMPORARY CONSTRUCTION SIGNS STANDARD 29.1.0 AND 27.1.1	SF	One (1) certificate of compliance for applicable materials and installation.	1
923.0105	600	DRUM BARRICADE STANDARD 26.2.0	BDAY	One (1) certificate of compliance for applicable materials and installation.	1
923.0125	20	PLASTIC PIPE TYPE III BARRICADE STANDARD 26.3.1	EA	One (1) certificate of compliance per type, per size, per source (or per batch).	1
923.0200	20	FLUORESCENT TRAFFIC CONES STANDARD 26.1.0	EA	One (1) certificate of compliance for applicable materials and installation.	1
924.0113	30	ADVANCE WARNING ARROW PANEL	PDAY	One (1) certificate of compliance for applicable materials and installation.	1
925.0112	10	PORTABLE CHANGEABLE MESSAGE SIGN	PDAY	One (1) certificate of compliance for applicable materials and installation.	1
931.0110	9	CLEANING AND SWEEPING PAVEMENT	HSY	NO TEST REQUIRED	-
932.0200	313	FULL-DEPTH SAWCUT OF BITUMINOUS PAVEMENT	LF	NO TEST REQUIRED	-
932.0230	20	FULL DEPTH SAWCUT OF PORTLAND CEMENT CONCRETE SIDEWALK/DRIVEWAY	LF	NO TEST REQUIRED	-
936.0100	1	MOBILIZATION AND DEMOBILIZATION	LS	NO TEST REQUIRED	-
937.0200	1	MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION	LS	NO TEST REQUIRED	-
942.0200	44	DETECTABLE WARNING PANEL STANDARD 48.1.0	SF	One (1) certificate of compliance for applicable materials and installation.	1
999.0001	312	POLICE DETAILS	MHRS	NO TEST REQUIRED	-
L01.0102	96	LOAM BORROW (4")	SY	One (1) 10 sample per source for loss on ignition, PH and gradation tests.	1
L02.0102	96	RESIDENTIAL SEEDING (TYPE 2)	SY	Seed: 1) One (1) certified analysis per type, per source. (certificate of analysis is tag on seeding bag contains analysis of all components used). Limestone: 1) One (1) certified analysis per type, per source (if used). (certificate of analysis is tag on seeding bag contains analysis of all components used). Fertilizer: 1) One (1) certified analysis per type, per source (if used). (certificate of analysis is tag on seeding bag contains analysis of all components used). Mulch: One (1) certified analysis per type, per source if used. (certificate of analysis is tag on seeding bag contains analysis of all components used). Adhesive Mulch Stabilizer: 1) One (1) certified analysis per type, per source if used. (certificate of analysis is tag on seeding bag contains analysis of all components used).	1
L05.0505	96	EROSION CONTROL BLANKET	SY	One (1) certificate of compliance for applicable materials and installation.	1
T05.0100	1	PRECAST TYPE A HANDHOLE 18.2.0	EA	Concrete Mix: 1) Four (4) cylinders for less than 100 CY, six (6) over 100 CY per 150 CY, and at the discretion of the Engineer. 2) Any day's production for slump test. At the Engineer's discretion. 3) One (1) sample (size according to AASHTO T-152) per 150 CY, and at the discretion of the Engineer each or any day's production for an air content test. Portland Cement: 1) One (1) Mill Test Report per type, per source, per lot of portland cement. Coarse Aggregate: 1) One (1) sample per 150 CY for a gradation. Fine Aggregate: 1) One (1) sample per 150 CY for a gradation. Steel Reinforcing: 1) One (1) Mill Test Report per size, per source, per year. Soil:	1

ITEM NO.	QTY	ITEM DESCRIPTION	UOM	MINIMUM TESTING/CERTIFICATION	MIN. NO. TESTS
				1) One (1) 50 lbs sample per source or geological change for a Proctor and gradation 2) One (1) field density test per 1000 CY, per lift of embankment.	
T05.0200	1	PRECAST TYPE H HEAVY DUTY HANDHOLE 18.2.1	EA	Concrete Mix: 1) Four (4) cylinders for less than 100 CY, six (6) over 100 CY per 150 CY, and at the discretion of the Engineer. 2) Any day's production for slump test. At the Engineer's discretion. 3) One (1) sample (size according to AASHTO T-152) per 150 CY, and at the discretion of the Engineer each or any day's production for an air content test. Portland Cement: 1) One (1) Mill Test Report per type, per source, per lot of portland cement. Coarse Aggregate: 1) One (1) sample per 150 CY for a gradation. Fine Aggregate: 1) One (1) sample per 150 CY for a gradation. Steel Reinforcing: 1) One (1) Mill Test Report per size, per source, per year. Soil: 1) One (1) 50 lbs sample per source or geological change for a Proctor and gradation 2) One (1) field density test per 1000 CY, per lift of embankment.	1
T05.9901	2	RETROFIT EXISTING CONDUIT INTO NEW HANDHOLE	EA	NO TEST REQUIRED	-
T15.0100	21.75	DIRECTIONAL REGULATORY AND WARNING SIGNS	SF	One (1) certificate of compliance for applicable materials and installation.	1
T15.0200	3	REMOVE AND RELOCATE DIRECTIONAL REGULATORY AND WARNING SIGN	EA	NO TEST REQUIRED	-
T15.1000	2	STREET SIGN ASSEMBLY STD. 24.6.1	EA	One (1) certificate of compliance for applicable materials and installation.	-
T15.9901	2	PROVIDENCE STANDARD STREET NAME SIGN	EA	One (1) certificate of compliance for applicable materials and installation.	-
T20.0712	18	12 INCH WHITE WATERBORNE PAINT PAVEMENT MARKINGS	LF	Epoxy: 1) One (1) quart sample required per type, per source, per batch for relevant tests. 2) One (1) certificate of compliance per type, per source, per batch. Glass Bead: 1) One (1) 10 lbs sample per source for relevant tests. 2) One (1) certificate of compliance per type, per size, per source.	1
T20.0904	351	4 INCH YELLOW WATERBORNE PAINT PAVEMENT MARKINGS	LF	Epoxy: 1) One (1) quart sample required per type, per source, per batch for relevant tests. 2) One (1) certificate of compliance per type, per source, per batch. Glass Bead: 1) One (1) 10 lbs sample per source for relevant tests. 2) One (1) certificate of compliance per type, per size, per source.	1
T20.2406	342	6 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS	LF	Epoxy: 1) One (1) quart sample required per type, per source, per batch for relevant tests. 2) One (1) certificate of compliance per type, per source, per batch. Glass Bead: 1) One (1) 10 lbs sample per source for relevant tests. 2) One (1) certificate of compliance per type, per size, per source.	1
T20.2408	95	8 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS	LF	Epoxy: 1) One (1) quart sample required per type, per source, per batch for relevant tests. 2) One (1) certificate of compliance per type, per source, per batch. Glass Bead: 1) One (1) 10 lbs sample per source for relevant tests. 2) One (1) certificate of compliance per type, per size, per source.	1
T20.2412	18	12 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS	LF	Epoxy: 1) One (1) quart sample required per type, per source, per batch for relevant tests. 2) One (1) certificate of compliance per type, per source, per batch. Glass Bead: 1) One (1) 10 lbs sample per source for relevant tests. 2) One (1) certificate of compliance per type, per size, per source.	1
T20.2424	245	24 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS	LF	Epoxy: 1) One (1) quart sample required per type, per source, per batch for relevant tests. 2) One (1) certificate of compliance per type, per source, per batch. Glass Bead: 1) One (1) 10 lbs sample per source for relevant tests. 2) One (1) certificate of compliance per type, per size, per source.	1
T20.2804	351	4 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS	LF	Epoxy: 1) One (1) quart sample required per type, per source, per batch for relevant tests. 2) One (1) certificate of compliance per type, per source, per batch.	1

ITEM NO.	QTY	ITEM DESCRIPTION	UOM	MINIMUM TESTING/CERTIFICATION	MIN. NO. TESTS
				Glass Bead: 1) One (1) 10 lbs sample per source for relevant tests. 2) One (1) certificate of compliance per type, per size, per source.	
T20.2808	85	8 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS	LF	Epoxy: 1) One (1) quart sample required per type, per source, per batch for relevant tests. 2) One (1) certificate of compliance per type, per source, per batch. Glass Bead: 1) One (1) 10 lbs sample per source for relevant tests. 2) One (1) certificate of compliance per type, per size, per source.	1
T20.4506	77	REMOVE PAVEMENT MARKING LINE – LESS THAN OR EQUAL TO 6 INCHES WIDE	LF	NO TEST REQUIRED	-
T20.4508	12	REMOVE PAVEMENT MARKING LINE – GREATER THAN 6 INCHES WIDE	LF	NO TEST REQUIRED	-

**MATERIALS TESTING AND CERTIFICATION SCHEDULE
373 PROMENADE STREET IMPROVEMENTS
OCTOBER 2022**

ADJUSTING STRUCTURE AND PAVER ITEMS - TESTING FOR ITEMS BELOW SHALL INCLUDE:

BRICKS/BLOCKS: 1 SAMPLE OF 15 BRICKS OR 3 BLOCKS OF EACH TYPE FOR ABSORPTION AND COMPRESSIVE STRENGTH TESTS.

MORTAR ITEMS: SAMPLE PER PROJECT, PER RAILROAD CAR LOAD FOR AASHTO TESTS.

CODE	ITEM DESCRIPTION	UOM
707.1100	ADJUST TELEPHONE MANHOLE TO GRADE	EACH
713.8268	ADJUST CURB STOP BOX TO GRADE	EACH
713.8269	ADJUST WATER GATE BOXES TO GRADE	EACH

NOTES:

1. ALL MATERIALS SAMPLING AND TESTING TO BE PERFORMED BY CITY OF PROVIDENCE OR CITY'S DESIGNATED REPRESENTATIVE.
2. TESTING FREQUENCIES ARE MINIMUMS AND SUBJECT TO MODIFICATION BY THE CITY OF PROVIDENCE WITH APPROVAL FROM RIDOT DUE TO PROJECT CONSIDERATIONS.
3. CONTRACTOR TO PROVIDE 48 HOUR ADVANCED NOTICE TO CITY OF PROVIDENCE PRIOR TO DELIVERY OF ANY MATERIALS TO BE TESTED UNDER THIS SCHEDULE.
4. CONTRACTOR TO PROVIDE 48 HOUR ADVANCED NOTICE TO CITY OF PROVIDENCE PRIOR TO FABRICATION OF PRECAST STRUCTURES TO BE INSPECTED AT THE PLANT.
5. THIS SCHEDULE WAS PREPARED IN ACCORDANCE WITH THE RIDOT MASTER SCHEDULE FOR THE PREPARATION OF A PROJECT SCHEDULE FOR SAMPLING, TESTING, AND CERTIFICATION OF MATERIALS, 1998 EDITION (MST) AND ALL UPDATES.
6. MATERIALS SAMPLE SIZE SHALL BE PER THE RIDOT MST. MST CAN BE ACCESSED AT: <http://www.dot.state.ri.us/documents/engineering/research/materials/MasterSchedulev1998.pdf>
7. RIDOT LISTS FOR APPROVED PRODUCTS, PLANTS, CONCRETE AND BITUMINOUS MIXES CAN BE ACCESSED AT: http://www.dot.ri.gov/engineering/materials_research/Approvals/index.asp

201.0301 1 EA CUTTING AND DISPOSING ISOLATED TREES AND STUMPS (4" - 24")

1 PROV 1 EA **DT** Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	1	EA	208+20	L	1	

201.0321 160 SY CLEARING AND GRUBBING

1 PROV 160 SY (CG) Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Area (SF)	Description
1	PROV	160	SY			L	1440	

201.0403 314 SY REMOVE AND DISPOSE SIDEWALKS

1 PROV 314 SY **DSW** Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Area (SF)	Description
1	PROV	314	SY	207+69	1002+06	L	2825	

201.0409 204 SY REMOVE AND DISPOSE FLEXIBLE PAVEMENT

1 PROV 204 SY **DFP** Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Area (SF)	Description
1	PROV	35	SY	207+69	208+76	L	313	Curb removal
1	PROV	106	SY	207+73	208+48	L	952	Area within site
1	PROV	63	SY	1001+61	1001+95	L	560	Area within site at new driveway

201.0419 179 LF REMOVE AND DISPOSE FENCE

1 PROV 179 LF **DF** Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Length (FT)	Description
1	PROV	154	LF	207+73	1000+94	L	154	
1	PROV	25	LF	1001+70	1001+95	L	25	

201.0428 2 EA REMOVE AND DISPOSE FRAME AND GRATE OR FRAME AND COVER

1 *PROV* 2 EA **DFG** *Assumptions:*

- 1
- 2
- 3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	1	EA	1000+20	L	1	
1	PROV	1	EA	1000+30	L	1	

201.0450 293 LF REMOVE AND STOCKPILE ON SITE GRANITE CURB

1 PROV 293 LF (SGC) Assumptions:

1

2

3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Length (FT)	Description
1	PROV	101	LF	207+69	208+62	L	101	
1	PROV	192	LF	1000+14	1002+06	L	192	

**201.0610 3 EA REMOVE AND DISPOSE DIRECTIONAL, WARNING, REGULATORY, SERVICE,
 AND STREET SIGNS**

1 PROV 3 EA DS Assumptions:
 1
 2
 3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	1	EA	208+28	L	1	
1	PROV	2	EA	1000+17	L	2	

201.9901 125 LF REMOVE AND DISPOSE CONCRETE WALL

1 PROV 125 LF **DW** Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Length (FT)	Description
1	PROV	125	LF	207+96	1000+90	L	125	

201.9902 2 EA REMOVE AND DISPOSE DECORATIVE LIGHT POLE FOOTING

1 PROV 2 EA **DFTG** Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	1	EA	207+71	L	1	
1	PROV	1	EA	208+04	L	1	

201.9904 1 EA REMOVE AND RELOCATE BOULDER

1 PROV 1 EA **RRB** Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	1	EA	1001+78	L	1	

202.0700 80 CY COMMON BORROW

1 PROV 80 CY **CAP** Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Area (SF)	Depth (FT)	Description
1	PROV	64	CY	207+70	208+44	L	860	2	CAP
1	PROV	16	CY				500	1	Contingency

**202.9901 562 CY HANDLING, HAULING AND STOCKPILE MANAGEMENT OF
CONTAMINATED SOILS**

1 PROV 562 CY

Assumptions:

- 1 Cut total is between existing and prop surfaces
- 2 Any excavation below prop surface needs to be calculated
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Area (SF)	Depth (IN)	Description
1	PROV	63	CY				2525	8	Sidewalks
1	PROV	8	CY				287	8	Driveways
1	PROV	17	CY				535	10	BCD
1	PROV	123	CY				1884	21	P1
1	PROV	2	CY				84	6	MTA
1	PROV	16	CY				548	9	7.3.0P
1	PROV	10	CY				359	9	7.3.0PC
1	PROV	1	CY				16	9	7.3.3P
1	PROV	1	CY				16	9	7.3.3PC
1	PROV	2	CY				44	9	7.3.9P
1	PROV	1	CY				13	9	7.3.9PC
1	PROV	4	CY				93	12	MGC
1	PROV	64	CY				860	24	L&S
1	PROV	250	CY						Cut total from CAD

302.0100 159 CY GRAVEL BORROW SUBBASE COURSE

1 PROV 159 CY

Assumptions:

- 1 For sidewalk and driveways, assume a depth of 8"
- 2 For P1, assume depth of 12"
- 3 Curb gravel borrow included in price of curb
- 4 For MTA, assume a depth of 12"

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Area (SF)	Depth (IN)	Description
1	PROV	63	CY				2525	8	Sidewalks
1	PROV	8	CY				287	8	Driveways
1	PROV	14	CY				535	8	BCD
1	PROV	70	CY				1884	12	P1
1	PROV	4	CY				84	12	MTA

401.1000 67 TON CLASS 19.0 HMA

1 PROV 67 TON **P1** Assumptions:

- 1 5" depth has conversion of 0.3161 (2 2.5" lifts)
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Area (SF)	Convert (TON/SY)	Description
1	PROV	65	TON	208+03	1001+14	L	1844	0.3161	
1	PROV	2	TON	1000+00	1000+16	L	40	0.3161	

401.2100 28 TON MODIFIED CLASS 12.5 HMA

1 PROV 28 TON **P1** Assumptions:

- 1 2" depth has conversion of 0.12931
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Area (SF)	Convert (TON/SY)	Description
1	PROV	27	TON	208+03	1001+14	L	1844	0.12931	
1	PROV	1	TON	1000+00	1000+16	L	40	0.12931	

401.3005 16 TON CLASS 9.5 HMA FOR MISCELLANEOUS WORK

1 PROV 16 TON BCDM Assumptions:

- 1 2" depth has conversion of 0.12931
- 2 3" depth has conversion of 0.18678
- 3 4" depth has a conversion of 0.25862

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Area (SF)	Convert (TON/SY)	Description
1	PROV	16	TON	1001+65	1001+94	L	535	0.25862	BCDM

401.3100 28 TON MODIFIED CLASS 9.5 HMA

1 PROV 28 TON **P1** Assumptions:

- 1 2" depth has conversion of 0.12931
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Area (SF)	Convert (TON/SY)	Description
1	PROV	27	TON	208+03	1001+14	L	1844	0.12931	
1	PROV	1	TON	1000+00	1000+16	L	40	0.12931	

403.0300 839 SY ASPHALT EMULSION TACK COAT

1 PROV 839 SY

Assumptions:

- 1 Assume tack coat between each layer/lift
- 2
- 3
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Area (SF)	# Coats	Description
1	PROV	419	SY	208+03	1001+14	L	1884	2	Below Class 19.0, in btwn lifts
1	PROV	210	SY	208+03	1001+14	L	1884	1	Below Class 12.5
1	PROV	210	SY	208+03	1001+14	L	1884	1	Below Class 9.5

501.9901 10 SY MOUNTABLE TRUCK APRON

1 PROV 10 SY MTA Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Area (SF)	Description
1	PROV	10	SY	1000+16	1000+49	L	84	

601.0300 19 CY CLASS A PORTLAND CEMENT CONCRETE

1 PROV 19 CY

Assumptions:

- 1 Width = 1', Depth = 10" (18" curb - 6" reveal - 2" surface)
- 2 MGC has curb lock on both sides, 13" depth on front side, 8" depth on back side
- 3 Fence post foundation: Width=1', Length=1', Depth=3.5'

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Area (SF)	Depth (IN)	Description
1	PROV	7	CY				212	10	7.3.0P
1	PROV	5	CY				139	10	7.3.0PC
1	PROV	1	CY				6	10	7.3.3P
1	PROV	1	CY				6	10	7.3.3PC
1	PROV	1	CY				17	10	7.3.9P
1	PROV	1	CY				5	10	7.3.9PC
1	PROV	3	CY				36	21	MGC

702.9901 3 EA HIGH CAPACITY FRAME & GRATE, PROV STD 6.3.5P

1 PROV 3 EA 6.3.5P Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	1	EA	1000+20	L	1	DI 1-1
1	PROV	1	EA	1000+29	L	1	DI 1-2
1	PROV	1	EA	1000+41	L	1	DI 1-3

704.0300 4 VLF RECONSTRUCT CATCH BASIN/VERTICAL WALLS

1 PROV 4 VLF **RCV** Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	2	VLF	1000+20	L	2	DI 1-1
1	PROV	2	VLF	1000+29	L	2	DI 1-2

707.0950 1 EA ADJUST TELEPHONE MANHOLE TO GRADE

1 PROV 1 EA AT Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	1	EA	1000+20	L	1	

708.9041 9 EA CLEANING CATCH BASINS ALL TYPES AND SIZES

1 PROV 9 EA CCB Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	9	EA			9	Project wide for silt sack installation

713.8268 1 EA ADJUST CURB STOP BOX TO GRADE

1 PROV 1 EA (AC) Assumptions:

1

2

3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	1	EA	208+45	L	1	

713.8269 1 EA ADJUST WATER GATE BOXES TO GRADE

1 PROV 1 EA **AW** Assumptions:

1

2

3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	1	EA	207+91	L	1	

805.9901 1 LS CONCRETE WALL CAP

1 PROV 1 LS Assumptions:

1

2

3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	1	LS			1	Project Wide

903.9901 234 LF CHAIN LINK FENCE STD 31.2.0 - 8' HEIGHT

1 PROV 234 LF 31.2.0 Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Length (FT)	Description
1	PROV	100	LF	207+45	208+41	L	100	
1	PROV	111	LF	207+73	208+41	L	111	
1	PROV	17	LF	1001+71	1001+71	L	17	
1	PROV	6	LF	1001+95	1002+00	L	6	

903.9902 1 EA CHAIN LINK FENCE DOUBLE GATE 8' X 24' STD 31.2.0 - 8' HEIGHT

1 PROV 1 EA GATE Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	1	EA	1001+82	L	1	

905.0110 34 CY PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD 43.1.0

1 PROV 34 CY 43.1.0 Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Area (SF)	Depth (IN)	Description
1	PROV	24	CY	207+69	1001+69	L	1864	4	
1	PROV	8	CY	208+24	208+59	L	575	4	
1	PROV	2	CY	1001+97	1002+06	R	86	4	

905.0115 8 CY PORTLAND CEMENT CONCRETE DRIVEWAY STANDARD 43.5.0

1 *PROV* 8 CY ~~43.5.0P~~ *Assumptions:*

- 1
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Area (SF)	Depth (IN)	Description
1	PROV	8	CY	1001+69	1001+97	L	287	8	

906.0112 95 LF GRANITE CURB PROVIDENCE STANDARD 7" STRAIGHT

1 PROV 95 LF **7.3.0P** Assumptions:

- 1 212 Total curb
- 2
- 3 -117 Deduction: reuse 40% curbing from SGC qty

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Length (FT)	Description
1	PROV	9	LF	207+69	207+78	L	9	
1	PROV	28	LF	207+94	208+17	L	28	
1	PROV	5	LF	1000+05	1000+10	L	5	
1	PROV	12	LF	208+26	208+37	L	12	
1	PROV	14	LF	208+24	208+34	L	14	
1	PROV	12	LF	208+43	208+56	L	12	
1	PROV	12	LF	208+47	208+59	L	12	
1	PROV	5	LF	208+39	208+43	L	5	
1	PROV	9	LF	208+50	208+58	L	9	
1	PROV	20	LF	1000+21	1000+34	L	20	
1	PROV	21	LF	1000+12	1000+33	L	21	
1	PROV	56	LF	1001+14	1001+69	L	56	
1	PROV	9	LF	1001+97	1002+06	L	9	

906.0113 139 LF GRANITE CURB PROVIDENCE STANDARD 7" CIRCULAR

1 PROV 139 LF 7.3.0PC Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Length (FT)	Description
1	PROV	18	LF	207+78	207+94	L	18	
1	PROV	81	LF	1000+40	1001+12	L	81	
1	PROV	5	LF	1000+06	1000+09	L	5	
1	PROV	8	LF	1000+10	1000+17	L	8	
1	PROV	6	LF	208+43	208+47	L	6	
1	PROV	7	LF	208+56	208+60	L	7	
1	PROV	9	LF	208+43	208+50	L	9	
1	PROV	5	LF	1000+33	1000+34	L	5	

906.0700 117 LF REMOVE, HANDLE, HAUL TRIM RESET CURB EDGING, STRAIGHT,
 CIRCULAR ALL TYPES

1 PROV 117 LF **RHH** Assumptions:

- 1 Reuse 40% of stockpiled curbing
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Length (FT)	Description
1	PROV	117	LF				117	Project Wide

906.9901 2 EA GRANITE 2'-0" RADIUS CURB RETURN - PROVIDENCE STANDARD

1 PROV 2 EA **7.3.4P** Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	1	EA	1001+70	L	1	
1	PROV	1	EA	1001+97	L	1	

906.9902 6 LF GRANITE CURB RAMP TRANSITION CURB (STRAIGHT) - PROVIDENCE STANDARD

1 PROV 6 LF 7.3.3P Assumptions:

- 1 Transition curbs vary in length, change unit to LF
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Length (FT)	Description
1	PROV	6	LF	208+17	208+21	L	6	

906.9903 6 LF GRANITE CURB RAMP TRANSITION CURB (CIRCULAR) - PROVIDENCE STANDARD

1 PROV 6 LF 7.3.3PC Assumptions:

- 1 Transition curbs vary in length, change unit to LF
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Length (FT)	Description
1	PROV	6	LF	208+24	208+28	L	6	

906.9904 17 LF GRANITE RAMP STONE (STRAIGHT) - PROVIDENCE STANDARD

1 PROV 17 LF **7.3.9P** Assumptions:

- 1 Ramp stones vary in length, change unit to FT
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Length (FT)	Description
1	PROV	6	LF	208+34	208+39	L	6	
1	PROV	6	LF	208+37	208+43	L	6	
1	PROV	5	LF	1000+07	1000+12	L	5	

906.9905 5 LF GRANITE RAMP STONE (CIRCULAR) - PROVIDENCE STANDARD

1 PROV 5 LF **7.3.9PC** Assumptions:

- 1 Ramp stones vary in length, change unit to FT
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Length (FT)	Description
1	PROV	5	LF	208+21	208+24	L	5	

906.9906 36 LF MOUNTABLE GRANITE CURB

1 PROV 36 LF MGC Assumptions:
 MGCC 1
 2
 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Length (FT)	Description
1	PROV	3	LF	1000+16	1000+16	L	3	MGC
1	PROV	3	LF	1000+16	1000+19	L	3	MGCC
1	PROV	19	LF	1000+19	1000+46	L	19	MGC
1	PROV	6	LF	1000+34	1000+48	L	6	MGC
1	PROV	5	LF	1000+46	1000+48	L	5	MGCC

907.0200 1 TON CALCIUM CHLORIDE FOR DUST CONTROL (PROJECT WIDE)

1 PROV

1 TON

Assumptions:

1 Conversion = 0.00075 TON/SY
(1.5 LBS/SY x 1 TON / 2000 LBS)

2

3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Area (SF)	Convert (TON/SY)	Description
1	PROV	0.21	TON				2525	0.00075	Sidewalks
1	PROV	0.02	TON				287	0.00075	Driveways
1	PROV	0.04	TON				535	0.00075	BCD
1	PROV	0.16	TON				1884	0.00075	P1
1	PROV	0.01	TON				84	0.00075	MTA

914.5010 260 MHRS FLAGPERSONS

1 PROV 260 MHRS Assumptions:

- 1 Assume construction will be 3 months
- 2 Assume 22 workable days per month
- 3 Assume 8 hours per day
- 4 Assume flagger will be needed for half of the construction time

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	260	MHRS			260	Project Wide

914.5020 52 MHRS FLAGPERSONS - OVERTIME

1 PROV

52 MHRS

Assumptions:

1 20% of flagperson hours

2

3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	52	MHRS			52	Project Wide

919.0101 5 EA TEST PITS

1 PROV 5 EA *Assumptions:*
 1
 2
 3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	5	EA			5	Project Wide

922.0100 98.83 SF TEMPORARY CONSTRUCTION SIGNS STANDARD 29.1.0 AND 27.1.1

1 PROV 98.83 SF Assumptions:
1
2
3

#	Fund	Qty	Unit	Quantity	Area (SF)	Column n1	Column n2	Column n3	Description
1	PROV	18.00	SF	2	9	36	36	144	Road Work Ahead
1	PROV	9.00	SF	2	4.5	18	36	144	End Road Work
1	PROV	12.00	SF	2	6	24	36	144	Traffic Fines Doubled
1	PROV	9.00	SF	1	9	36	36	144	Right Lane Closed Ahead
1	PROV	9.00	SF	1	9	36	36	144	Lane Shift Left
1	PROV	6.00	SF	2	3	18	24	144	Sidewalk Closed - Cross Here
1	PROV	8.00	SF	4	2	12	24	144	Sidewalk Closed
1	PROV	9.00	SF	1	9	36	36	144	One Lane Road Ahead
1	PROV	2.00	SF	1	2	24	12	144	Bike Lane Closed
1	PROV	3.00	SF	1	3	24	18	144	Bike Lane
1	PROV	1.33	SF	1	1.33333	24	8	144	Ends Plaque
1	PROV	6.25	SF	1	6.25	30	30	144	Bikes May Use Full Lane
1	PROV	6.25	SF	1	6.25	30	30	144	Bike Lane Closed Ahead

923.0105 600 BDAY DRUM BARRICADE STANDARD 26.2.0

1 PROV 600 BDAY *Assumptions:*
1
2
3
4

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	600	BDAY			600	Project Wide

923.0125 20 EA PLASTIC PIPE TYPE III BARRICADE STANDARD 26.3.1

1 PROV 20 EA *Assumptions:*

- 1 Assume 100' outer barricade around work zone
- 2
- 3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	20	EA			20	Project wide

923.0200 20 EA FLUORESCENT TRAFFIC CONES STANDARD 26.1.0

1 PROV 20 EA

Assumptions:

1 Speed limit assumed to be 25 MPH

2

3

4

5

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	20	EA			20	Project Wide

924.0113 30 PDAY ADVANCE WARNING ARROW PANEL

1 PROV

30 PDAY

Assumptions:

1 Assume 1 for 30 days

2

3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	30	PDAY			30	Project Wide

925.0112 10 PDAY PORTABLE CHANGEABLE MESSAGE SIGN

1 PROV

10 PDAY

Assumptions:

- 1 Assume one sign on Promenade Street
- 2 Assume 10 days
- 3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	10	PDAY			10	Project Wide

931.0110 9 HSY CLEANING AND SWEEPING PAVEMENT

1 PROV 9 HSY *Assumptions:*
 1
 2
 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Area (SF)	Description
1	PROV	9	HSY				8000	Project wide for striping

932.0200 313 LF FULL-DEPTH SAWCUT OF BITUMINOUS PAVEMENT

1 PROV 313 LF Assumptions:
 1
 2
 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Length (FT)	Description
1	PROV	107	LF	207+69	208+76	L	107	
1	PROV	206	LF	1000+00	1002+06	L	206	

**932.0230 20 LF FULL DEPTH SAWCUT OF PORTLAND CEMENT CONCRETE
 SIDEWALK/DRIVEWAY**

1 PROV 20 LF Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Length (FT)	Description
1	PROV	10	LF	207+69	207+69	L	10	
1	PROV	10	LF	1002+06	1002+06	L	10	

936.0100 1 LS MOBILIZATION AND DEMOBILIZATION

1 PROV 1 LS Assumptions:
1
2
3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	1	LS			1	Project Wide

937.0200 1 LS MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION

1 PROV 1 LS Assumptions:

1

2

3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	1	LS			1	Project Wide

942.0200 44 SF DETECTABLE WARNING PANEL STANDARD 48.1.0

1 PROV 44 SF 48.1.0 Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Area (SF)		Description
1	PROV	10	SF	208+22		L	10		
1	PROV	12	SF	208+37		L	12		
1	PROV	12	SF	208+41		L	12		
1	PROV	10	SF	208+58		L	10		

999.0001	312 MHRS POLICE DETAILS
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1 PROV 312 MHRS Assumptions:

1

2

3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	312	MHRS			312	Project Wide

L01.0102 96 SY LOAM BORROW (4")

1 PROV 96 SY LS Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Area (SF)	Description
1	PROV	96	SY	207+70	208+44	L	860	

860

L02.0102 96 SY RESIDENTIAL SEEDING (TYPE 2)

1 PROV 96 SY Assumptions:
 1
 2
 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Area (SF)	Description
1	PROV	96	SY	207+70	208+44	L	860	

L05.0505 96 SY EROSION CONTROL BLANKET

1 PROV 96 SY **ECB** Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Area (SF)	Description
1	PROV	96	SY	207+70	208+44	L	860	2:1 Slope

T05.0100 1 EA PRECAST TYPE A HANDHOLE 18.2.0

1 PROV 1 EA 18.2.0 Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	1	EA	207+71	L	1	

T05.0200 1 EA PRECAST TYPE H HEAVY DUTY HANDHOLE 18.2.1

1 PROV 1 EA 18.2.1 *Assumptions:*

- 1
- 2
- 3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	1	EA	208+04	L	1	

T05.9901 2 EA RETROFIT EXISTING CONDUIT INTO NEW HANDHOLE

1 PROV 2 EA (NHH) Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	1	EA	207+71	L	1	
1	PROV	1	EA	208+04	L	1	

T15.0100 21.75 SF DIRECTIONAL REGULATORY AND WARNING SIGNS

1 PROV 21.75 SF *Assumptions:*
 1
 2
 3

#	Fund	Qty	Unit	Sta	Offset Side	Length (IN)	Width (IN)	Conve rsion	Sign No.	MUTCD Designation
1	PROV	3.00	SF	207+90	L	36	12	144	1-1	R6-1R
1	PROV	6.25	SF	208+08	L	30	30	144	1-2	R1-1
1	PROV	5.00	SF	1000+32	L	24	30	144	1-3	R4-7
1	PROV	7.50	SF	1002+05	L	30	36	144	1-4	R3-5R

T15.0200 3 EA REMOVE AND RELOCATE DIRECTIONAL REGULATORY AND WARNING SIGN

1 PROV 3 EA RRS Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	1	EA	208+46	L	1	
1	PROV	2	EA	208+52	L	2	

T15.1000 2 EA STREET SIGN ASSEMBLY STD. 24.6.1

1 PROV 2 EA **24.6.1** Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	2	EA	208+54	L	2	

T15.9901 2 EA PROVIDENCE STANDARD STREET NAME SIGN

1 PROV 2 EA Assumptions:
 1
 2
 3

#	Fund	Qty	Unit	Sta	Offset Side	Qty (EA)	Description
1	PROV	2	EA	208+54	L	2	

T20.0712 18 LF 12 INCH WHITE WATERBORNE PAINT PAVEMENT MARKINGS

1 PROV 18 LF 12W Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Length (FT)	Factor	Description
1	PROV	18	LF	208+08	208+20	L	18	1	

T20.0904 351 LF 4 INCH YELLOW WATERBORNE PAINT PAVEMENT MARKINGS

1 PROV 351 LF **4Y** Assumptions:

- 1 4Y = 1
- 2 4DY = 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Length (FT)	Factor	Description
1	PROV	102	LF	1000+11	1001+13	R	102	1	4Y
1	PROV	63	LF	1000+51	1001+13	L	63	1	4Y
1	PROV	186	LF	1001+13	1002+06	L	93	2	4DY

T20.2406 342 LF 6 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS

1 PROV 342 LF **6W** Assumptions:
 LF **6DW** 1
 LF 2
 LF 3
 LF
 LF

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Length (FT)	Factor	Description
1	PROV	13	LF	207+72	208+11	R	40	0.33	6DW
1	PROV	44	LF	207+85	208+20	L	44	1	6W
1	PROV	19	LF	208+20	208+34	L	19	1	6W
1	PROV	37	LF	208+40	208+60	L	37	1	6W
1	PROV	144	LF	1000+10	1001+46	R	144	1	6W
1	PROV	85	LF	1000+37	1001+13	L	85	1	6W

T20.2408 95 LF 8 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS

1 PROV 95 LF 8DIW Assumptions:
LF 1
LF 2
LF 3
LF
LF

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Length (FT)	Factor	Description
1	PROV	95	LF	1000+09	1001+41	R	95	1	8DIW

T20.2412 18 LF 12 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS

1 PROV 18 LF 12W Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Length (FT)	Factor	Description
1	PROV	18	LF	208+08	208+20	L	18	1	

T20.2804 351 LF 4 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS

1 PROV 351 LF 4Y Assumptions:

- 1 4Y = 1
- 2 4DY = 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Length (FT)	Factor	Description
1	PROV	102	LF	1000+11	1001+13	R	102	1	4Y
1	PROV	63	LF	1000+51	1001+13	L	63	1	4Y
1	PROV	186	LF	1001+13	1002+06	L	93	2	4DY

T20.2808 85 LF 8 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS

1 PROV 85 LF **8DIY** Assumptions:

- 1
- 2
- 3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Length (FT)	Factor	Description
1	PROV	85	LF	1000+12	1000+73	L	85	1	8 DIY

T20.4506 77 LF REMOVE PAVEMENT MARKING LINE - LESS THAN OR EQUAL TO 6 INCHES WIDE

1 PROV 77 LF Assumptions:
1
2
3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Length (FT)	Description
1	PROV	39	LF	207+72	208+11	L	39	
1	PROV	18	LF	208+40	208+46	R	18	3 lines (2 shoulder and lane line)
1	PROV	20	LF	1000+16	1000+26	R	20	4DY

T20.4508 12 LF REMOVE PAVEMENT MARKING LINE - GREATER THAN 6 INCHES WIDE

1 PROV 12 LF Assumptions:
1
2
3

#	Fund	Qty	Unit	Start Sta	End Sta	Offset Side	Length (FT)	Description
1	PROV	12	LF	208+63	208+75	L	12	

OVERALL PROJECT TOTAL

Item #	Item Name	Quantity	Unit	Unit Cost	Total Cost
201.0301	CUTTING AND DISPOSING ISOLATED TREES AND STUMPS (4" - 24")	1	EA	\$ 2,000.00	\$ 2,000
201.0321	CLEARING AND GRUBBING	160	SY	\$ 15.00	\$ 2,400
201.0403	REMOVE AND DISPOSE SIDEWALKS	314	SY	\$ 20.00	\$ 6,280
201.0409	REMOVE AND DISPOSE FLEXIBLE PAVEMENT	204	SY	\$ 15.00	\$ 3,060
201.0419	REMOVE AND DISPOSE FENCE	179	LF	\$ 8.00	\$ 1,432
201.0428	REMOVE AND DISPOSE FRAME AND GRATE OR FRAME AND COVER	2	EA	\$ 150.00	\$ 300
201.0450	REMOVE AND STOCKPILE ON SITE GRANITE CURB	293	LF	\$ 10.00	\$ 2,930
201.0610	REMOVE AND DISPOSE DIRECTIONAL, WARNING, REGULATORY, SERVICE, AND STREET SIGNS	3	EA	\$ 65.00	\$ 195
201.9901	REMOVE AND DISPOSE CONCRETE WALL	125	LF	\$ 100.00	\$ 12,500
201.9902	REMOVE AND DISPOSE DECORATIVE LIGHT POLE FOOTING	2	EA	\$ 500.00	\$ 1,000
201.9904	REMOVE AND RELOCATE BOULDER	1	EA	\$ 100.00	\$ 100
202.0700	COMMON BORROW	80	CY	\$ 30.00	\$ 2,400
202.9901	HANDLING, HAULING AND STOCKPILE MANAGEMENT OF CONTAMINATED SOILS	562	CY	\$ 40.00	\$ 22,468
202.9902	LOAD, HAUL, AND DISPOSE OF CONTAMINATED SOIL	918	TON	\$ 110.00	\$ 100,931
204.0100	TRIMMING AND FINE GRADING	689	SY	\$ 5.00	\$ 3,445
209.0200	SACK INSERT CATCH BASIN INLET PROTECTION	9	EA	\$ 150.00	\$ 1,350
212.2100	MAINTENANCE AND CLEANING OF EROSION AND POLLUTION CONTROLS	1	LS	\$ 1,500.00	\$ 1,500
302.0100	GRAVEL BORROW SUBBASE COURSE	159	CY	\$ 40.00	\$ 6,360
401.1000	CLASS 19.0 HMA	67	TON	\$ 250.00	\$ 16,750
401.2100	MODIFIED CLASS 12.5 HMA	28	TON	\$ 250.00	\$ 7,000
401.3005	CLASS 9.5 HMA FOR MISCELLANEOUS WORK	16	TON	\$ 250.00	\$ 4,000
401.3100	MODIFIED CLASS 9.5 HMA	28	TON	\$ 200.00	\$ 5,600
403.0300	ASPHALT EMULSION TACK COAT	839	SY	\$ 1.00	\$ 839
501.9901	MOUNTABLE TRUCK APRON	10	SY	\$ 300.00	\$ 3,000

OVERALL PROJECT TOTAL

Item #	Item Name	Quantity	Unit	Unit Cost	Total Cost
601.0300	CLASS A PORTLAND CEMENT CONCRETE	19	CY	\$ 200.00	\$ 3,800
701.5312	12 INCH DUCTILE IRON WATER PIPE CLASS 52, PUSH-ON JOINT	30	FT	\$ 200.00	\$ 6,000
702.0712	PRECAST CONCRETE DROP INLET STANDARD 4.5.0	1	EA	\$ 2,000.00	\$ 2,000
702.9901	HIGH CAPACITY FRAME & GRATE, PROV STD 6.3.5P	3	EA	\$ 1,500.00	\$ 4,500
704.0300	RECONSTRUCT CATCH BASIN/VERTICAL WALLS	4	VLF	\$ 200.00	\$ 800
707.0950	ADJUST TELEPHONE MANHOLE TO GRADE	1	EA	\$ 1,500.00	\$ 1,500
708.9041	CLEANING CATCH BASINS ALL TYPES AND SIZES	9	EA	\$ 150.00	\$ 1,350
713.8268	ADJUST CURB STOP BOX TO GRADE	1	EA	\$ 150.00	\$ 150
713.8269	ADJUST WATER GATE BOXES TO GRADE	1	EA	\$ 150.00	\$ 150
805.9901	CONCRETE WALL CAP	1	LS	\$ 2,000.00	\$ 2,000
903.9901	CHAIN LINK FENCE STD 31.2.0 - 8' HEIGHT	234	LF	\$ 150.00	\$ 35,100
903.9902	CHAIN LINK FENCE DOUBLE GATE 8' X 24' STD 31.2.0 - 8' HEIGHT	1	EA	\$ 4,000.00	\$ 4,000
905.0110	PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD 43.1.0	34	CY	\$ 500.00	\$ 17,000
905.0115	PORTLAND CEMENT CONCRETE DRIVEWAY STANDARD 43.5.0	8	CY	\$ 550.00	\$ 4,400
906.0112	GRANITE CURB PROVIDENCE STANDARD 7" STRAIGHT	95	LF	\$ 60.00	\$ 5,700
906.0113	GRANITE CURB PROVIDENCE STANDARD 7" CIRCULAR	139	LF	\$ 75.00	\$ 10,425
906.0700	REMOVE, HANDLE, HAUL TRIM RESET CURB EDGING, STRAIGHT, CIRCULAR ALL TYPES	117	LF	\$ 35.00	\$ 4,095
906.9901	GRANITE 2'-0" RADIUS CURB RETURN - PROVIDENCE STANDARD	2	EA	\$ 400.00	\$ 800
906.9902	GRANITE CURB RAMP TRANSITION CURB (STRAIGHT) - PROVIDENCE STANDARD	6	LF	\$ 100.00	\$ 600
906.9903	GRANITE CURB RAMP TRANSITION CURB (CIRCULAR) - PROVIDENCE STANDARD	6	LF	\$ 100.00	\$ 600
906.9904	GRANITE RAMP STONE (STRAIGHT) - PROVIDENCE STANDARD	17	LF	\$ 100.00	\$ 1,700
906.9905	GRANITE RAMP STONE (CIRCULAR) - PROVIDENCE STANDARD	5	LF	\$ 100.00	\$ 500
906.9906	MOUNTABLE GRANITE CURB	36	LF	\$ 125.00	\$ 4,500

OVERALL PROJECT TOTAL

Item #	Item Name	Quantity	Unit	Unit Cost	Total Cost
907.0200	CALCIUM CHLORIDE FOR DUST CONTROL (PROJECT WIDE)	1	TON	\$ 400.00	\$ 400
914.5010	FLAGPERSONS	260	MHRS	\$ 70.00	\$ 18,200
914.5020	FLAGPERSONS - OVERTIME	52	MHRS	\$ 90.00	\$ 4,680
919.0101	TEST PITS	5	EA	\$ 750.00	\$ 3,750
920.0200	FILTER FABRIC FOR RIP-RAP	96	SY	\$ 8.00	\$ 768
922.0100	TEMPORARY CONSTRUCTION SIGNS STANDARD 29.1.0 AND 27.1.1	99	SF	\$ 25.00	\$ 2,471
923.0105	DRUM BARRICADE STANDARD 26.2.0	600	BDAY	\$ 1.00	\$ 600
923.0125	PLASTIC PIPE TYPE III BARRICADE STANDARD 26.3.1	20	EA	\$ 150.00	\$ 3,000
923.0200	FLUORESCENT TRAFFIC CONES STANDARD 26.1.0	20	EA	\$ 25.00	\$ 500
924.0113	ADVANCE WARNING ARROW PANEL	30	PDAY	\$ 15.00	\$ 450
925.0112	PORTABLE CHANGEABLE MESSAGE SIGN	10	PDAY	\$ 50.00	\$ 500
931.0110	CLEANING AND SWEEPING PAVEMENT	9	HSY	\$ 10.00	\$ 90
932.0200	FULL-DEPTH SAWCUT OF BITUMINOUS PAVEMENT	313	LF	\$ 2.00	\$ 626
932.0230	SIDEWALK/DRIVEWAY	20	LF	\$ 4.00	\$ 80
936.0100	MOBILIZATION AND DEMOBILIZATION	1	LS	\$ 30,000.00	\$ 30,000
937.0200	MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION	1	LS	\$ 20,000.00	\$ 20,000
942.0200	DETECTABLE WARNING PANEL STANDARD 48.1.0	44	SF	\$ 40.00	\$ 1,760
999.0001	POLICE DETAILS	312	MHRS	\$ 90.00	\$ 28,080
L01.0102	LOAM BORROW (4")	96	SY	\$ 7.00	\$ 672
L02.0102	RESIDENTIAL SEEDING (TYPE 2)	96	SY	\$ 4.00	\$ 384
L05.0505	EROSION CONTROL BLANKET	96	SY	\$ 6.00	\$ 573
T05.0100	PRECAST TYPE A HANDHOLE 18.2.0	1	EA	\$ 2,000.00	\$ 2,000
T05.0200	PRECAST TYPE H HEAVY DUTY HANDHOLE 18.2.1	1	EA	\$ 3,500.00	\$ 3,500
T05.9901	RETROFIT EXISTING CONDUIT INTO NEW HANDHOLE	2	EA	\$ 1,000.00	\$ 2,000
T15.0100	DIRECTIONAL REGULATORY AND WARNING SIGNS	21.75	SF	\$ 65.00	\$ 1,414

OVERALL PROJECT TOTAL

Item #	Item Name	Quantity	Unit	Unit Cost	Total Cost
T15.0200	REMOVE AND RELOCATE DIRECTIONAL REGULATORY AND WARNING SIGN	3	EA	\$ 300.00	\$ 900
T15.1000	STREET SIGN ASSEMBLY STD. 24.6.1	2	EA	\$ 350.00	\$ 700
T15.9901	PROVIDENCE STANDARD STREET NAME SIGN	2	EA	\$ 500.00	\$ 1,000
T20.0712	12 INCH WHITE WATERBORNE PAINT PAVEMENT MARKINGS	18	LF	\$ 6.00	\$ 108
T20.0904	4 INCH YELLOW WATERBORNE PAINT PAVEMENT MARKINGS	351	LF	\$ 0.50	\$ 176
T20.2406	6 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS	342	LF	\$ 0.75	\$ 257
T20.2408	8 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS	95	LF	\$ 4.00	\$ 380
T20.2412	12 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS	18	LF	\$ 6.00	\$ 108
T20.2424	24 INCH WHITE FINAL EPOXY RESIN PAVEMENT MARKINGS	245	LF	\$ 8.00	\$ 1,960
T20.2804	4 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS	351	LF	\$ 0.50	\$ 176
T20.2808	8 INCH YELLOW FINAL EPOXY RESIN PAVEMENT MARKINGS	85	LF	\$ 4.00	\$ 340
T20.4506	REMOVE PAVEMENT MARKING LINE - LESS THAN OR EQUAL TO 6 INCHES WIDE	77	LF	\$ 1.00	\$ 77
T20.4508	REMOVE PAVEMENT MARKING LINE - GREATER THAN 6 INCHES WIDE	12	LF	\$ 9.00	\$ 108

*Unit prices taken from 2022 RIDOT bid tabs

Subtotal \$ 452,297

Allowances \$ 37,500

Total \$ 489,797