



**CITY OF EAST PROVIDENCE
PAWTUCKET AVE WATER MAIN RELOCATION
RFP EP22/23-23**

ADDENDUM # 2

BID OPENING TUESDAY JUNE 27, 2023 AT 11:00AM

The following revisions, clarifications, additions and/or deletions, are hereby made a part of the Bid Documents for the City of East Providence's Pawtucket Avenue Water Main Replacement project, RFP EP22/23-23.

1. The bid opening date has been revised to Tuesday, June 27, 2023 at 11:00 am.
2. Revision to the payment for police details has been made, with the Owner paying police details directly to the East Providence Police Department. An allowance for police details has been included in the Contract for budgeting purposes.

The Bid Form and Section 01150 – Measurement and Payment shall be removed and replaced with the attached.

Attachments:

1. Bid Form
2. 01150 Measurement and Payment



**CITY OF EAST PROVIDENCE
PAWTUCKET AVENUE WATER MAIN RELOCATION
BID FORM
REQUEST FOR PROPOSAL
RFP EP22/23-23
BID OPENING THURSDAY JUNE 22, 2023 AT 11:00AM**

The undersigned bidder, being familiar with local conditions affecting the cost of the work, hereby proposes to provide all necessary labor, materials, equipment and incidental items necessary to do all the work called for in the Specifications and in accordance with the Contract Documents.

A mandatory pre-bid conference will be held on **Tuesday June 6, 2023 at City Hall, 145 Taunton Avenue, East Providence, Conference Room 306 at 10:00AM**. Questions on the bid are due by **Tuesday June 13, 2023 at 5:00PM**.

The undersigned further understands that the quantities of work as shown are approximate only and are subject to increase or decrease and offers to do the work whether the quantities are increased or decreased, at the unit prices stated. Davis–Bacon wages apply to this proposal.

All prices must be written in words and figures. In case of discrepancy, the amount shown in words will govern.

Bidder acknowledges receipt of the following addendum:

At the time of the opening of bids, the bidder shall have inspected the sites of the work to familiarize himself with the conditions relating to the work under the contract.

No Bidder may withdraw their Bid within sixty (60) days following the closing time for receipt of Bids.

Bidder hereby agrees to begin work within ten (10) days after the date of the NOTICE TO PROCEED, unless otherwise specified or permitted by the CITY, and shall complete the work under the provisions of the Contract within 60 calendar days.

Addendum No. 2

The undersigned bidder submits herewith Bid Security in the form of a Bid Bond or a Certified Check, in favor of the City of East Providence, in the amount not less than five (5) percent of the total amount bid in dollars, and agrees and consents that, if he is the successful bidder, the Bid Security shall be forfeited to the City of East Providence as liquidated damages, if the required Contract and Surety Bond are not executed within ten (10) days from the date of the NOTICE OF AWARD.

LIQUIDATED DAMAGES will be assessed at the rate of \$1,500.00 per day for each day beyond the contract length herein stipulated.

The undersigned bidder further agrees to pay the premiums for the Surety Bond (Performance, Labor and Materials Payment Bonds) for which said premiums are to be included in the Bid Price.

BIDDING FIRM: _____
NUMBER & STREET: _____
CITY/STATE/ZIP: _____
SIGNATURE: _____
TITLE: _____
DATE: _____
TELEPHONE NO.: _____

Being a Corporation, incorporated under
the laws of the State of

(Partnership)
(Individual)

Composed of officers, partners
or owner as follows:

(President, Owner, Partner)

(Corporate Seal)

Item No.	Estimated Quantity	UOM	Brief Description	Unit Bid Price in Figures	Amount in Figures
1	1	LS	Mobilization and Demobilization		
2	1	LS	Erosion and Sedimentation Controls		
3	5	EACH	Test Pits		
4	100	CY	Unsuitable Material Removal		
5	100	CY	Rock Removal		
6	1,260	LF	F&I 12" DI Water Main		
7	5	EACH	F&I 12" Gate Valve		
8	4	EACH	F&I 8" Gate Valve		
9	4	EACH	F&I 6" Gate Valve		
10	100	LF	F&I 8-Inch DI Water Service		
11	100	LF	F&I 6-Inch DI Water Service		
12	1	EACH	F&I Fire Hydrant		
13	5,000	LBS	F&I Ductile Iron Fittings		
14	50	CY	Controlled Density Fill		
15	120	TON	Temporary Trench Maintenance		
16	160	TON	Permanent Trench Patch		
17	150	CY	Concrete Road Base Restoration		
18	2,000	SY	Micro Mill and 2" Overlay		
19	70	SY	Parking Lot Restoration		
20	10	SY	Concrete Sidewalk Restoration		
21	1	EACH	Wheelchair Ramp Restoration		
22	40	LF	Remove and Reset Granite Curbing		
23	60	SY	Loam and Seed/Non Pavement Restoration		
24	1	EACH	Furnish and Install Traffic Loops		
25	1	ALLOW	Traffic Control Detail (Allowance)	\$40,000	\$40,000
Base Bid Price for Lines 1-25 in Figures					
Base Bid Price for Lines 1-25 in Words					

**CITY OF EAST PROVIDENCE, RI
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SECTION 01150

MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.1 EXTENT OF WORK

- A. Measurement. The quantities to be measured under the various items in the proposal will be those quantities of work completed in accordance with the drawings and specifications. The methods of measurement will be as stated hereinafter for the individual items.
- B. Prices. The unit or lump sum prices for all items in the Bid Form shall be full compensation for the work of the Contractor specified and shall include the cost of furnishing all materials, labor, tools and equipment and all work and expense incidental to and necessary to complete the work in accordance with the drawings and specifications.

1.2 WORK NOT PAID FOR SEPARATELY

- A. Stripping Topsoil. Payment for stripping topsoil, including stockpiling, is included in the prices for the various Items of Work in the Bid Form and no separate payment will be made thereof.
- B. Clearing and Grubbing. Payment for clearing and grubbing, including disposal, is included in the prices for the various items of work in the Bid Form and no separate payment will be made thereof.
- C. Earth Excavation. Payment for earth excavation to the depths indicated on the drawings or authorized by the Engineer for the construction of all structures, foundations, pipes, and appurtenances, including disposal of the excavated materials in fills, backfills, embankments, designated stockpiles, or as spoil as approved by the Engineer, is included in the prices for the various items of work in the Bid Form and no separate payment will be made thereof.
- D. Boulder Excavation. Payment for boulder excavation less than one (1) cubic yard in size, including furnishing and installing appropriate backfill material, is included in the various items of work in the Bid Form and no separate payment will be made thereof.
- E. Filling, Backfilling, Embankment, and Disposal of Surplus Materials. Payment for filling; backfilling for all structures, foundations, underground electric conduits and pipes, including appurtenances; construction of embankment; and disposal of surplus material is included in the prices for the various items of work in the Bid Form and no separate payment will be made thereof, unless otherwise indicated.
- F. Sheeting, Shoring and Bracing. Payment for all necessary sheeting, shoring and bracing is included in the prices for the various items in the Bid Form and no separate payment shall be made thereof.
- G. Pumping, Draining and Bailing. Payment for all necessary pumping, draining, bailing, etc., including the use of underdrains or well points, is included in the prices for the various items in the Bid Form and no separate payment will be made thereof.

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- H. Preparation of Site. Payment for preparation of site is included in the Lump Sum Price for Bid Item 1 – Mobilization and Demobilization in the Bid Form and no separate payment will be made thereof. Preparation of site includes setting up construction plant(s), offices, shops, storage areas, sanitary and other facilities required by the specifications or Federal, State, and Local law or regulations; grading (including furnishing and installing fill material and removal and disposal of excess material) and rock removal at the site for all temporary facilities required as part of construction; obtaining necessary permits and licenses; and payment of fees; general protection, temporary heat and utilities; providing shop and working drawings, certificates and schedules; sampling and testing materials; providing required insurance; cleaning up, and all other work regardless of its nature which may not be specifically referred to in the Bid Form but is necessary for the complete construction of the project set forth by the contract.
- I. Bonds. Payment for bonds required by the contract is included in the prices bid for the various items of work in the Bid Form and no separate payment will be made thereof.
- J. Environmental Protection. Payment for work under this Section is included in the prices for the various Items in the Bid Form and no separate payment will be made thereof.
- J. Signage. Payment for all signage required for this project is included in the prices for the various Items in the Bid Form and no separate payment will be made thereof.
- K. Pavement Removal. Payment for bituminous concrete pavement excavation and disposal is included in the prices for the various Items in the Bid Form and no separate payment will be made thereof.
- L. No separate payments will be made for cleaning up. Such clean-up shall be considered incidental to the item to which it applies and shall be included in the price for that item.
- M. All existing work removed or damaged by the Contractor's operations shall be replaced to the satisfaction of the Owner at no additional expense to the Owner.
- N. No separate payment will be made for work or items associated with Division 1 - General Requirements. Contractor shall incorporate the cost for these items into the Bid Items listed in the Bid Form.
- O. No separate payment will be made for gravel base course under pavements in roads, parking lots, sidewalks and walkways. Furnishing and installing gravel subbase to the depths requires is included in the various pavement and sidewalk restoration bid items listed on the Bid Form.
- P. No separate payment shall be made for costs associated with Professional Engineer(s), licensed in the State of Rhode Island, performing all design calculations, which shall be sealed and signed by said Professional Engineer(s). The Contractor is called to the attention that individual sections of these contract documents indicate when design calculations are required. Design calculations performed, sealed and stamped by a Professional Engineer licensed in the State of Rhode Island is included in the prices for the various Items in the Bid Form and no separate payment will be made thereof

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- Q. Hydrostatic/Bacteriological/VOC Testing. Payment for work under this Section is included in the prices for the various Items in the Bid Form and no separate payment will be made thereof. This shall include, but is not limited to, furnishing and installing required corporations, valves, tubing, piping, fittings and any other incidentals required to successfully perform all required testing. It also includes labor and laboratory costs associated with analytical testing of samples collected. The Owner makes no guarantee as to the availability of adequate pressures to perform required testing, it shall be the contractor's responsibility to provide and operate all necessary pumping equipment for all testing purposes. Any other incidentals required to perform testing, including laboratory fees, shall not be paid for separately.
- R. Compaction and costs associated with 3rd party compaction testing are incidental to the items described. No separate payment shall be made for labor, materials, or equipment necessary to adequately compact backfilled excavations and to conduct compaction testing in accordance with the specifications.

1.3 BID ITEMS

- A. Appurtenant items of work shown on the drawings or specified which are required to complete the work but are not listed separately under the various applicable bid items of work, shall have no separate payment for such items. It shall be the responsibility of the Contractor to verify any missing or incomplete items.
- B. The Owner reserves the right to remove select bid items and to increase or decrease the unit quantity of bid items. The successful bidder is made aware that the unit price so stated on the bid form constitutes full compensation for that item, regardless of any increase or decrease in the unit quantity of that bid item. There is no guarantee of any minimum or maximum quantity for any bid item. Standards of the industry (e.g. renegotiation of the bid price due to a 25% increase in the unit quantity of the bid item) shall not be enforceable under this contract. Renegotiation of bid prices is solely at the discretion of the Owner.

1.4 MEASUREMENT

- A. The measurement of all quantities of items listed in the Bid Form shall be done by the Contractor. The measurement will include proper and complete documentation of all items to the satisfaction of the Owner and Engineer prior to the submission for payment. The measurement submitted shall be in the same unit description listed in the Bid Form.

1.5 PAYMENT

- A. Payments shall be made to the Contractor only after proper documentation of the unit quantity provided or percentage of work completed, and in accordance with the contract terms and conditions regarding payment.
- B. Payment for bid items shall include full compensation for all incidentals required for the complete installation of the completed product.

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- C. Payment shall be made only for that work which is performed within the pay limits shown on the drawings or detailed in the specifications. No payment shall be made for work beyond these limits unless the work has been authorized by the Engineer in writing.

1.6 PARTIAL PAYMENT FOR PRODUCTS

- A. Contractor may request partial payment for Products (supplies, material and/or equipment) as defined in Section 01600 - Materials and Equipment, which will be incorporated into the Work and which are delivered and stored off-site. The request may only be made when submitting Contractor's proposal for a Schedule of Values. In order for this request to be considered, the Contractor must comply with the requirements of this sub-section and the Agreement. Any payments approved pursuant to this sub-section shall not exceed sixty-five percent (65%) of the Product's invoiced value and shall be subject to retainage as set forth in the Agreement. Contractor shall obtain prior approval since the Owner reserves the right to refuse approval for payment for any equipment or materials suitably stored off-site in its sole discretion, regardless of whether all conditions contained herein have been met.
- B. Partial payment may be made for Products eligible for off-site delivery and storage only upon presentation by the Contractor of a Bill of Sale, an invoice or an Affidavit certifying that the material is received by the Owner free and clear of all liens, encumbrances and security interests of any kind and including for off-site delivery evidence acceptable to the Owner that "all risks" property insurance in an amount sufficient to protect the interests of the Owner is in effect at the approved site and that the Owner is a loss payee equal to or greater than its percentage of ownership.
- C. Partial payment for Products delivered and stored off-site shall be contingent upon Contractor's compliance with the storage and protective maintenance requirements set forth in Section 01600 and all other requirements necessary to preserve equipment warranties for the benefit of the Owner.
- D. All costs associated with delivery to and storage of equipment or material at an off-site facility shall be assumed by the Contractor notwithstanding the Contractor's request for, and obtaining approval of the Owner to so deliver and store the materials.
- E. Contractor shall provide written evidence to the Owner of having made arrangements for unrestricted access by the Owner and its authorized representatives to the materials wherever stored, including provision for the Owner to take control and possession of such materials at any time and without restriction.
- F. Contractor must provide the Owner, upon request and prior to any partial payment, documentation that transfers absolute legal title to such material to the Owner conditional only upon receipt of final payment. Neither such transfer of this nor any partial payment shall constitute acceptance by the Owner of the materials nor void the right to reject materials subsequently found to be unsatisfactory, or in any way relieve the Contractor of any obligation arising under the contract Documents.

PART 2 PRODUCTS

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2.01 MOBILIZATION AND DEMOBILIZATION

A. Measurement

1. The Work of this section shall be measured as specified at the Lump Sum price provided on the Bid Form. The payable quantity will be for the preparatory work and operations which must be performed or for costs which must be incurred prior to beginning work, final clean-up and demobilization of temporary facilities and equipment, restoration of impacted areas disturbed due to construction of all temporary facilities, preparation of as-built drawings, and the cost of payment and performance bonds as well as fees for all permits and Federal, State, and local approvals. Mobilization shall include, but is not limited to, movement of personnel, equipment, supplies, and incidentals to the project site for the establishment of all Contractor's field office(s), utilities, temporary fencing, installation, maintenance, and removal of tracking pads, and other facilities necessary for work on the project. Demobilization shall include, but is not limited to, moving out of personnel and equipment, cleaning entire site, and removing debris and rubbish.
2. The Lump Sum price provided on the Bid Form for Bid Item No. 1 - Site Mobilization and Demobilization shall not exceed 10% of the total amount of this bid.
3. There shall be no separate payment associated with furnishing, installing, and removing a temporary field office for use by the Contractor, should the Contractor determine that one is required.

B. Payment

1. Payment for this item shall be made as a percentage of the Lump Sum price listed on the Bid Form for Bid Item No. 1.

2.02 EROSION AND SEDIMENTATION CONTROLS

A. Measurement

1. The Work of this section shall be measured as specified at the Lump Sum Price for installation, maintenance, removal and disposal of erosion and sedimentation controls where shown on the drawings and as required by the Engineer. Work shall include all necessary equipment, materials, workmen, and all incidental work required for completion of the work specified herein and included on the contract drawings and in these specifications.
2. This work shall include installation, maintenance, removal and disposal of all tree protection where shown on the drawings and as required by the Engineer.

B. Payment

1. Payment for this item shall be made as a percentage of the Lump Sum Price listed on the Bid Form for Bid Item No. 2.

2.03 TEST PITS

A. Measurement

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1. The Work of this section shall be measured as specified at the Unit Price for the performance of each test pit, up to a maximum of 12 cubic yards in volume, where requested by Contractor and approved by Owner or as required by the Engineer. Work shall include, but is not necessarily limited to, saw cutting, removal and disposal of concrete/bituminous pavement and excess soil, excavation to depths required by the Engineer, de-watering, shoring, providing means of egress for the Engineer to safely access the test pit, furnishing and installing bedding material for utilities or structures encountered in the test pit, furnishing, installing, and properly compacting backfill, and installing and maintaining temporary trench patch.

B. Payment

1. Payment for this item shall be made at the Unit Price for Each test pit performed as provided on the Bid Form for Bid Item No. 3.

2.04 UNSUITABLE MATERIAL REMOVAL

A. Measurement

1. The Work of this section shall be measured by the cubic yard quantity of unsuitable material excavated, removed, disposed of, and replaced with processed gravel, as determined in the field by the Engineer. Unsuitable material shall be as defined in these specifications.
2. Measurement shall be in cubic yards to the depth and widths of the excavation, to 1/10 of a cubic yard in accuracy. Material that Contractor deems to be unsuitable shall be presented to Engineer for verification and approval prior to measurement and payment as unsuitable.
3. Measurement shall be the in-place compacted quantity. No allowance will be made for shrinkage or compaction of processed gravel in place. Measurement by truck count will not be allowed.
4. Removal and replacement of material deemed unsuitable by Contractor but without concurrence or specific direction by the Engineer shall not be considered for payment.
5. Unsuitable material shall be property disposed of offsite at a located approved by Owner.

B. Payment

1. Payment for this item shall be made at the Unit Price per Cubic Yard provided on the Bid Form for Bid Item No. 4.

2.05 ROCK REMOVAL

A. Measurement

1. The Work of this section shall be measured by the cubic yard quantity of in-place rock or boulders that are larger than 1 cubic yard in size and require removal.

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2. When rock is encountered, the material shall be uncovered and the Engineer notified. The Engineer shall determine quantities by volumetric computation determined from measurements performed before rock excavation begins and measurements performed after completion of rock excavation. If the Contractor fails to uncover the rock and notify the Engineer to allow ample time for cross sectioning the undisturbed material, the Contractor shall have no right-of-claim to any classification other than that allowed by the Engineer.
3. Measurements of rock excavation within a trench shall be as indicated on the trench limits shown on the project drawing details. The depth of rock removal will be limited to 12" below the bottom of the pipe or structure. No compensation will be made for rock excavated beyond the limits shown on the drawings and in these specifications, unless specifically authorized in writing by the Owner. The contractor should include in this bid item any and all costs associated with over excavation of rock beyond pay limits that they deem necessary for construction purposes.
4. This work shall include excavation, breaking (mechanical removal), hauling off site and legal disposal of rock in accordance with the requirements of Section 02210, backfilling and providing screened gravel for any deficiency of trench backfill and all work incidental thereto, for which payment is not provided under other items.

B. Payment

1. Payment for this item shall be made at the Unit Price per Cubic Yard as provided on the Bid Form for Bid Item No. 5.

2.06 FURNISH AND INSTALL 12-INCH WATER MAIN

A. Measurement

1. The Work of this section shall be measured as specified at the Unit Price per Linear Foot provided on the Bid Form to furnish and install new 12-inch Class 52 double cement lined ductile iron water main pipe where shown on the drawings and as required. The work shall include all necessary trench excavation, dewatering, support of excavations, furnishing and installing water pipe, furnishing and installing required bedding material, backfilling with suitable common borrow, furnishing and installing backfill material where adequate common borrow does not exist, furnishing and installing insulation material as required by the Engineer or as shown on the drawings, furnishing and installing restrained joints as required by the Engineer or as shown on the drawings, making connections between new and existing water mains where shown on the drawings including furnishing and installing transitional couplings, removing and disposing of existing water piping and appurtenances as necessary and where called for on the drawings, providing temporary traffic control, pavement/concrete saw cutting, removing and disposing of pavement/concrete, and removing excess soil. Required disinfection and testing of the water main shall also be included for payment under this item.
2. New Pipe that is furnished but not installed shall not be considered for payment.

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B. Payment

1. Payment for this item shall be at the Unit Price per Linear Foot provided on the Bid Form for Bid Item No. 6.

2.07 FURNISH AND INSTALL 12-INCH GATE VALVE

A. Measurement

1. The Work of this section shall be measured as specified at the Unit Price provided on the Bid Form for each 12-inch gate valve and valve box, furnished and installed where shown on the drawings and as required. The work shall include all necessary trench work, dewatering, support of excavations, furnishing and installing of the gate valve and valve box with aligner, furnishing and installing required bedding material, backfilling with suitable common borrow, furnishing and installing backfill material where adequate common borrow does not exist, furnishing and installing required leveling blocks, furnish and installing insulation material as required by the Engineer, making connections between new and existing water mains where shown on the drawings and as necessary, furnishing and installing thrust blocks where required by the Engineer, furnishing and installing tie rods where required by the Engineer, providing temporary traffic control, pavement/concrete saw cutting, removing and disposing of pavement/concrete and removing excess soil.
2. Required testing of the water main shall be paid for under other bid items.
3. Gate valves and valve boxes associated with hydrant laterals shall be paid for separately.

B. Payment

1. Payment for this item shall be at the appropriate Unit Price provided on the Bid Form under Bid Item No. 7.

2.08 FURNISH AND INSTALL 8-INCH GATE VALVE

A. Measurement

1. The Work of this section shall be measured as specified at the Unit Price provided on the Bid Form for each 8-inch gate valve and valve box, furnished and installed where shown on the drawings and as required. The work shall include all necessary trench work, dewatering, support of excavations, furnishing and installing of the gate valve and valve box with aligner, furnishing and installing required bedding material, backfilling with suitable common borrow, furnishing and installing backfill material where adequate common borrow does not exist, furnishing and installing required leveling blocks, furnish and installing insulation material as required by the Engineer, making connections between new and existing water mains where shown on the drawings and as necessary, furnishing and installing thrust blocks where required by the Engineer, furnishing

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and installing tie rods where required by the Engineer, providing temporary traffic control, pavement/concrete saw cutting, removing and disposing of pavement/concrete and removing excess soil.

2. Required testing of the water main shall be paid for under other bid items.
3. Gate valves and valve boxes associated with hydrant laterals shall be paid for separately.

B. Payment

1. Payment for this item shall be at the appropriate Unit Price provided on the Bid Form under Bid Item No. 8.

2.09 FURNISH AND INSTALL 6-INCH GATE VALVE

A. Measurement

1. The Work of this section shall be measured as specified at the Unit Price provided on the Bid Form for each 6-inch gate valve and valve box, furnished and installed where shown on the drawings and as required. The work shall include all necessary trench work, dewatering, support of excavations, furnishing and installing of the gate valve and valve box with aligner, furnishing and installing required bedding material, backfilling with suitable common borrow, furnishing and installing backfill material where adequate common borrow does not exist, furnishing and installing required leveling blocks, furnish and installing insulation material as required by the Engineer, making connections between new and existing water mains where shown on the drawings and as necessary, furnishing and installing thrust blocks where required by the Engineer, furnishing and installing tie rods where required by the Engineer, providing temporary traffic control, pavement/concrete saw cutting, removing and disposing of pavement/concrete and removing excess soil.
2. Required testing of the water main shall be paid for under other bid items.
3. Gate valves and valve boxes associated with hydrant laterals shall be paid for separately.

B. Payment

1. Payment for this item shall be at the appropriate Unit Price provided on the Bid Form under Bid Item No. 9.

2.10 FURNISH AND INSTALL 8-INCH WATER SERVICE

A. Measurement

1. The Work of this section shall be measured as specified at the Unit Price per Linear Foot provided on the Bid Form to furnish and install 8-inch ductile iron water main to connect existing service to new water main where shown on the drawings and as required. The work shall include all necessary trench work, dewatering, support of excavations, furnishing and installing pipe, furnishing and installing all necessary couplings or fittings to connect new pipe to the existing service pipe, furnishing and

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installing required bedding material, backfilling with crushed stone in roadway or suitable common borrow beyond pavement limits, furnishing and installing backfill material where adequate material does not exist, compaction and third-party compaction testing, furnishing and installing insulation material as required by the Engineer, providing traffic control, pavement/concrete saw cutting, removing and disposing of pavement/concrete, removal and disposal of cobbles unsuitable for use as trench backfill but less than one cubic yard in volume and not eligible for payment as rock removal, and removing excess soil.

2. Measurement for this bid item shall be made along the centerline of the installation.
3. The Work of this item includes furnishing and installing temporary service to maintain uninterrupted water supply to the Shaw's shopping plaza. No separate payment will be made for temporary bypass piping for this purpose.
4. New pipe that is furnished but not installed shall not be considered for payment.

B. Payment

1. Payment for this item shall be at the Unit Price per Linear Foot provided on the Bid Form for Bid Item No. 10.

2.11 FURNISH AND INSTALL 6-INCH WATER SERVICE

A. Measurement

1. The Work of this section shall be measured as specified at the Unit Price per Linear Foot provided on the Bid Form to furnish and install 6-inch ductile iron water main to connect existing service to new water main where shown on the drawings and as required. The work shall include all necessary trench work, dewatering, support of excavations, furnishing and installing pipe, furnishing and installing all necessary couplings or fittings to connect new pipe to the existing service pipe, furnishing and installing required bedding material, backfilling with crushed stone in roadway or suitable common borrow beyond pavement limits, furnishing and installing backfill material where adequate material does not exist, compaction and third-party compaction testing, furnishing and installing insulation material as required by the Engineer, providing traffic control, pavement/concrete saw cutting, removing and disposing of pavement/concrete, removal and disposal of cobbles unsuitable for use as trench backfill but less than one cubic yard in volume and not eligible for payment as rock removal, and removing excess soil.
2. Measurement for this bid item shall be made along the centerline of the installation.
3. The Work of this item includes furnishing and installing temporary service to maintain uninterrupted water supply to the Shaw's shopping plaza. No separate payment will be made for temporary bypass piping for this purpose.
4. New pipe that is furnished but not installed shall not be considered for payment.

B. Payment

1. Payment for this item shall be at the Unit Price per Linear Foot provided on the Bid Form for Bid Item No. 11.

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2.12 FURNISH AND INSTALL FIRE HYDRANT ASSEMBLY

A. Measurement

1. Payment for this work shall be measured as specified at the Unit Price for Each new hydrant assembly installed in accordance with the Drawings. The payable quantity will be for the materials and labor necessary to install the hydrant assembly, including hydrant, valve, valve box and cover, tee, up to 30 linear feet of 6-inch branch piping, ¾" crushed stone, geotextile fabric, anchor tee, and thrust restraint as specified herein and included in the Contract Drawings.

B. Payment

1. Payment for this item shall be made at the appropriate Unit Price for Each hydrant assembly furnished and installed as provided on the bid form under Bid Item No. 12.

2.13 FURNISH AND INSTALL DUCTILE IRON FITTINGS

A. Measurement

1. The Work of this section shall be measured as specified at the Unit Price per Pound provided on the Bid Form to furnish and install C153 Ductile Iron compact fittings where shown on the drawings and as required by the Engineer to install the proposed water main along the proposed water main alignment. The work shall include all necessary trench work, dewatering, support of excavations, furnishing and installing the fitting, furnishing and installing thrust blocks, furnishing and installing mechanical joint restraining systems, furnishing and installing required bedding material, backfilling with suitable common borrow, furnishing and installing backfill material where adequate common borrow does not exist, furnishing and installing insulation material as required by the Engineer, making connections between new and existing water mains where shown on the drawings, removing and disposing existing water piping and appurtenances as necessary and where called for on the drawings, traffic control, pavement/concrete saw cutting, removing and disposing of pavement/concrete and excess soil. Required testing of the water main shall be included under other bid items.
2. For purposes of measurement, the weights of the C153 Ductile Iron Compact Fittings shall be those that are published in AWWA C153, latest edition.
3. Hydrant anchor tees are not included in this item and are to be paid for separately.
4. Fittings that are furnished and installed without the approval of the Engineer shall not be considered for payment. Fittings that are furnished but not installed shall not be considered for payment.

B. Payment

1. Payment for this item shall be at the Unit Price per Pound provided on the Bid Form for Bid Item No. 13.

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2.14 CONTROLLED DENSITY FILL

A. Measurement

1. The Work of this section shall be measured on a Cubic Yard basis of controlled density fill material furnished and installed within trench work for the new water main. Controlled density fill shall be installed where conventional backfilling is not possible or where proper support under utilities is necessary and where required by the Engineer. There will be no separate payment for temporary plating of the area to allow for setting of the controlled density fill.
2. The total cubic yardage quantity shall be verified by the Engineer prior to payment.
3. Controlled density fill placed without the approval of the Engineer shall not be considered for payment.

B. Payment

1. Payment for this item shall be at the appropriate Unit Price per Cubic Yard provided on the Bid Form for Bid Item No. 14.

2.15 TEMPORARY TRENCH MAINTANENCE

A. Measurement

1. The Work of this section shall be measured per ton as specified at the Unit Price provided on the Bid Form to furnish and install hot-mix bituminous material for temporary trench patching where shown on the drawings and as required. Only bituminous material installed to its specified thickness as indicated in Section 02513 shall be considered for payment. Cold patch will not be considered for payment unless authorized in writing by Owner.
2. This item shall include installing a 3" temporary trench patch at the end of every work week to cover all backfilled trench surfaces. This work shall also include plating open excavations and trenches with plates of appropriate size to completely cover all openings at the end of every workday.
3. This work shall include Mechanical Street Sweeping between 7 am and 5 pm, with a street sweeper approved by the Engineer, at the end of each work week to sweep all disturbed roadways and at the entrance and exit of the contractor's staging/stockpile area(s). Mechanical street sweeping shall be paid for as part of this bid item when used for temporary trench patching and maintenance.
4. This item includes maintaining temporary patches and replacing patch with hot mix bituminous pavement where required, at no additional cost to Owner, until permanent patch is placed.
5. This item shall include all necessary dust control measures to prevent dust from becoming a nuisance to residents and businesses. This shall include the application of water and calcium chloride to inhibit dust from trenches, stockpiles or any other exposed surfaces that may produce dust. Calcium chloride and water application shall be performed as necessary to prevent a dust nuisance and as required by the Engineer. The contractor shall at a minimum budget in this

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bid item the cost associated with daily application of calcium chloride and water to exposed trenches prior to application of temporary pavement.

6. The total quantity of the temporary pavement placed shall be verified by the Engineer prior to payment.

B. Payment

1. Payment for this item shall be at the appropriate Unit Price per Ton provided on the Bid Form for Bid Item No. 15.

2.16 PERMANENT TRENCH PATCH INSTALLATION

A. Measurement

1. The Work of this section shall be measured per ton as specified at the Unit Price provided on the Bid Form to furnish and install a permanent trench patch in disturbed roadways and parking lots. Only bituminous material installed to its specified thickness as indicated in Section 02513 and as detailed on the drawings shall be considered for payment.
2. For purposes of measurement only the Base Course shall be measured for payment. The 1-1/2" HMA Class 9.5 Surface course shall be paid for under Bid Item 16 "Micro Mill and 1-1/2" Overlay".
3. Work associated with Concrete Road Base Restoration shall not be included for payment under this Bid Item.
4. This work shall include Mechanical Street Sweeping between 7 am and 5 pm, with a street sweeper approved by the Engineer, to sweep all disturbed roadways as part of permanent pavement restoration.
5. This work shall also include raising or lowering of all castings, whether existing or installed as part of this project, to finish grade with either courses of brick and mortar or raising or lowering of valve boxes and covers. Installation of extensions on valve boxes shall not be allowed.
6. The total quantity of the permanent pavement placed shall be verified by the Engineer prior to payment.

B. Payment

1. Payment for this item shall be at the appropriate Unit Price per Ton provided on the Bid Form for Bid Item No. 16.

2.17 CONCRETE ROAD BASE RESTORATION

A. Measurement

1. The Work of this section shall be measured on a Cubic Yard basis of concrete road base installed in Pawtucket Avenue. Only concrete base that has been installed to its required thickness and cross-section depth as indicated on the drawings and in the specifications shall be considered for payment.
2. Work under this item shall also include doweling into existing concrete base as called for in the specifications and as indicated on the drawings.

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3. The total quantity of the concrete road base restored shall be verified by the Engineer prior to payment.
4. The Work of this section includes saw cutting, removing and disposing temporary pavement patch and existing pavements, preparing subgrade as indicated on the drawing and in the specifications.
5. Traffic protection, including but not limited to signage, barrels, cones, trench plates, and barriers, required as part of this work to adequately protect the work area for the duration of preparation, concrete pouring and setting, shall be included in the cost for this work.
6. Micro Milling and overlay work shall not be considered for payment under this bid item, but shall be included for payment under Bid Item 16 "Micro Mill and 1-1/2" Overlay".

B. Payment

1. Payment for this item shall be at the appropriate Unit Price per Cubic Yard provided on the Bid Form for Bid Item No. 17.

2.18 MICRO MILL AND 1 ½" OVERLAY

A. Measurement

1. The Work of this section shall be measured as specified at the Unit Price provided on the Bid Form per square yard of micro milling and 1 ½" overlay performed to limits indicated on the drawings and as required by the Engineer. Only overlays that are installed to their specified thickness and meet the minimum cross-section depth indicated in Section 02513 shall be considered for payment.
2. This work shall also include raising or lowering of all castings, whether existing or installed as part of this project, to finish grade with either courses of brick and mortar or raising or lowering of valve boxes and covers. Installation of extensions on valve boxes shall not be allowed.
3. This work shall include the costs associated with having a mechanical street sweeper working between 7 am and 5 pm on streets that have been micro milled. This shall continue until the overlay has been accepted by the Engineer as complete.
4. This work shall include costs associated with furnishing and installing new pavement markings to replace existing pavement markings removed during construction, whether or not pavement markings are depicted on the drawings. Contractor shall verify where pavement markings are present prior to preparing their bid.

B. Payment

1. Payment for this item shall be at the appropriate Unit Price per Square Yard provided on the Bid Form for Bid Item No. 18.

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2.19 PARKING LOT RESTORATION

A. Measurement

1. The Work of this section shall be measured as specified at the Unit Price provided on the Bid Form per Square Yard of permanent parking lot restoration performed, matching the minimum thickness of surrounding pavement or as directed by Engineer.
2. This work shall include raising or lowering of all castings, whether existing or installed as part of this project, to finish grade with either courses of brick and mortar or raising or lowering of valve boxes and covers. Installation of extensions on valve boxes shall not be allowed.
3. This work shall include costs associated with furnishing and installing new pavement markings to replace existing pavement markings removed during construction, whether or not pavement markings are depicted on the drawings. Contractor shall verify where pavement markings are present prior to preparing their bid.

B. Payment

1. Payment for this item shall be at the appropriate Unit Price per Square Yard provided on the Bid Form for Bid Item No. 19.

2.20 CONCRETE SIDEWALK RESTORATION

A. Measurement

1. The Work of this section shall be measured as specified at the Unit Price provided on the Bid Form per square yard of concrete sidewalk installed including rebar, welded wire fabric and other incidentals necessary for the restoration of sidewalks. The work shall include restoration of sidewalks disturbed to a minimum depth to match the existing side walk or as called for in the contract documents (whichever is greater), and furnishing and installing gravel borrow sub-base to match a depth called for in contract documents.

B. Payment

1. Payment for this item shall be at the Unit Price per Square Yard provided on the Bid Form for Bid Item No. 20.

2.21 WHEELCHAIR RAMP RESTORATION

A. Measurement

1. The Work of this section shall include furnishing and installing ADA compliant wheelchair ramps if directed by Owner. This work shall include, but is not limited to, all necessary excavation, removal and disposal of existing wheelchair ramp, furnishing and installing detectable warning pad, and furnishing and installing all necessary materials to properly construct the ADA compliant

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wheelchair ramp.

B. Payment

1. Payment for this item shall be at the Unit Price for Each wheelchair ramp installed as provided on the Bid Form for Bid Item No. 21.

2.22 REMOVE AND RESET GRANITE CURBING

A. Measurement

1. The Work of this section shall be measured as specified at the Unit Price provided on the Bid Form per Linear Foot of granite curbing removed and reset, as required by the Engineer, to proper depths and elevations as required. This item shall include excavation, pavement/concrete saw cutting, removing and disposing of pavement/concrete, removing excess soil, furnishing and installing required bedding material, and furnishing and installing concrete as called for in the contract documents.
2. Cutting of existing granite curbing shall not be allowed; granite curbing shall be removed as whole pieces and reset as whole pieces.

B. Payment

1. Payment for this item shall be at the appropriate Unit Price per Linear Foot provided on the Bid Form for Bid Item No. 22.

2.23 NON-PAVEMENT RESTORATION

A. Measurement

1. The Work of this section shall be measured as specified at the Unit Price provided on the Bid Form per Square Yard of non-pavement restoration completed. This work shall include restoration of grassed areas with 6" of loam and seed, restoring mulched planting beds, and restoring landscape plantings disturbed as a result of the project.
2. Work under this section shall include restoring non-pavement areas to a better or equal condition than prior to disturbance from this project. Raising castings to grade in areas that are filled shall also be included in this item.
3. For purposes of measurement, only grassed areas that receive 6" of loam and are seeded shall be measured for payment. Areas that are disturbed outside of the pay limits defined in the contract documents shall not be measured for payment.

B. Payment

1. Payment for this item shall be made as a percentage of the Square Yard price provided on the Bid Form for Bid Item No. 23.

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2.24 FURNISH AND INSTALL TRAFFIC LOOPS

A. Measurement

1. Payment for this work shall be measured as specified at the Unit Price for Each traffic loop furnished and installed where disturbed as part of the Work. This work shall include all necessary incidentals to construct traffic loops as called for in these specifications and as required by the RIDOT or City of East Providence.

B. Payment

1. Payment for this item shall be made at the appropriate Unit Price provided on the Bid Form under Bid Item No. 24.

2.25 TRAFFIC CONTROL DETAILS (ALLOWANCE)

A. Measurement

1. The Work of this section shall be measured based on the total number of manhours of uniformed traffic control as furnished by the East Providence Police Department for the purposes of directing traffic. Payment for this item shall be made directly by the Owner to the East Providence Police Department, based on submitted invoices from the East Providence Police Department. This item has been established as an Allowance for the City to draw from to make payments to the East Providence Police Department.
2. Abnormal and unreasonable expenses incurred by the Owner may be charged against the amount owed to the Contractor under this contract and are detailed as follows:
 - a. Contractor caused delays in the prosecution of work that result in hiring traffic police for more hours than would have been required during normal prosecution of work.
 - b. Reconstruction and/or reinstallation of any portions of the work, as a result of improper initial installation, for which traffic police is required.
 - c. Traffic police required at a site where the Contractor is not working or outside of the Contractor's standard workday as a result of obstructions to traffic that remain in the traveled way.
 - d. All other incidents resulting from the Contractor's operations requiring traffic police that would not normally be encountered during the progress of a well-organized project employing proper construction methods.

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PART 3 EXECUTION

3.1 BID ITEMS

- A. Appurtenant items of work shown on the drawings or described in the specifications are required to complete the work, but are not listed separately under the various applicable bid items of work, and no separate payment will be made for such items. It shall be the responsibility of the Contractor to verify any missing or incomplete items.

3.2 MEASUREMENT

- A. The measurement of all quantities of items listed in the Bid Form shall be done by the Contractor and verified by the Engineer. The measurement will include proper and complete documentation of all items to the satisfaction of the Owner and Engineer prior to the submission for payment. The measurement submitted shall be in the same unit description listed in the Bid Form.

3.3 PAYMENT

- A. Payments shall be made to the Contractor only after proper documentation of the unit quantity provided and in accordance with the contract terms and conditions regarding payment.
- B. Payment for bid items shall include full compensation for the complete installation of the complete product.

END OF SECTION