

April 29, 2024
REPLACEMENT OF BRIDGE NO. 04487
EAST STREET OVER PEQUABUCK RIVER
CITY OF BRISTOL, CT
FEDERAL PROJECT NO. 6017(012)
STATE PROJECT NO. 0017-0192

ADDENDUM NO. 1 SUMMARY

EXTENSION OF BID OPENING NOTICE:

The scheduled bid opening will be extended and changed to Friday, May 3, 2024 at 10:00 AM, after which time no further bids will be accepted. NO EXCEPTIONS.

DESCRIPTION OF CHANGES:

The work under this Addendum includes the following:

1. Response to questions received through 04/25/2024

SPECIAL PROVISIONS

NEW SPECIAL PROVISIONS

- Item #0703030A – Placement of Channel Boulder
- ITEM #1301025A – Test Piping System (Water Main)

REVISED SPECIAL PROVISIONS

- Item #0503001A – Removal of Superstructure

DELETED SPECIAL PROVISIONS

- Item #0974001A – Removal of Existing Masonry

PLANS

NEW PLANS

- None

REVISED PLANS

- Sheet 12 – “General Plan, Typical Section and Elevation” Drawing No. S-01

DELETED PLANS

- None

CONTRACT ITEMS

NEW CONTRACT ITEMS

- Item #0703030A – Placement of Channel Boulder

REVISED CONTRACT ITEMS

- None

DELETED CONTRACT ITEMS

- Item #1014910 – Utility Relocation

QUESTIONS AND RESPONSES

Question #001:

The Water Main Support Detail on drawing S-17 shows a pair of ¾” threaded inserts that are to be cast into the precast beams with Note 4 stating that the inserts shall provide a minimum tensile and shear resistance of 6 kips. Does this mean each individual insert is to resist 6 kips or that the pair inserts working together shall have a 6 kip minimum resistance?

Response:

The 6 kips tensile and shear resistances stated in note 4 of contract drawing S-17 are for each individual insert.

Question #002:

The layout for the water main and gas pipe shown on contract drawings 6 and 8 depicts an apparent conflict between these pipes and barrier walls 2A and 2B. Contract drawing 12 shows the pipes in a different configuration which appears to create a conflict with the pipes and all four barrier walls. Please clarify the layout of the water main and the gas main in the vicinity of the new bridge.

Response:

The layout on drawings 6 and 8 is correct. Sheet 12 is hereby revised to properly depict layout of utility lines. Vertical bends will be needed between the abutment and barrier walls on the north side to avoid conflict with the barrier wall and the utility main will need to be encased in concrete beneath the barrier wall. The Contractor shall submit a working drawing based on field measurements during construction.

Question #003:

The special provision for Item 0503001A – Removal of Superstructure contains language that does not seem relevant to this project. Please clarify.

Response:

A revised special provision for this item is included in Addendum No. 1

Question #004:

The special provision for Item 0974001A – Removal of Existing Masonry contains language that does not seem relevant to this project. Please clarify.

Response:

The special provision included in the contract documents is hereby removed by Addendum No. 1 and replaced with the standard specification for this item from Form 818 to be used instead.

Question #005:

Please provide a specification for Item 1014910 – Utility Relocation.

Response:

Item #1014910 – Utility Relocation is hereby removed from the contract by Addendum No. 1. See revised Schedule of Values.

Question #006:

Our interpretation of the “Water Handling Plan – Stage 2” shown on contract drawing 16 is that it indicates along the southern backside of Abutment 1 measurement and payment will be made for both Item 204001 – Cofferdam and Dewatering and Item 0716000 – Temporary Earth Retaining System. Is this interpretation correct?

Response:

The layout of the cofferdams is conceptual and will depend on the field conditions and system chosen by a Contractor. It shall be used to prevent water from entering excavation. Temporary earth retaining system item should be used for retaining dirt from entering excavation.

Question #007:

Please provide the environmental permit plan dated 2/3/2023 referenced in the Flood Management Certification document dated 4/12/2023.

Response:

The Permit Plans dated 02/03/2023 are included with Addendum No. 1.

Question #008:

Can the 21’ wide North channel of the Pequabuck River as shown on Stage 1 on sheet S-05 be cofferdamed back to Abutment 2 eliminating flow through this area to allow for access from Abutment 2 to remove the existing pier and install the proposed pier?

Response:

Temporary hydraulic calculations performed during design show that closing an entire cell of the bridge during construction would raise the WSE for the 2 year storm to require an 8’ high

cofferdam. There was constructability concern with this height. The designer does not contend that it could be done as suggested, however, it would require a change to the permit plans be coordinated with CTDEEP.

Question #009:

Please provide an item and special provision for "Placement of Chanel Boulder"

Response:

Item and special provision are added to the contract by Addendum No. 1. See revised Schedule of Prices and special provision.

Question #010:

Please provide the special provision for the item "Cofferdam and Dewatering" as states on Sheet S-05, Water Handling Note #4.

Response:

Cofferdam and Dewatering shall be provided per the Form 818 standard specifications.

Question #011:

Please add a Special Provision for Item # 1301025 -Test {Piping System (water main)}.

Response:

A special provision has been added for Item No. 1301025 as part of Addendum No. 1.

**CITY OF BRISTOL
SCHEDULE OF PRICES
FOR THE CONSTRUCTION OF**

**STATE PROJECT NO. 0017-0192, FAP #6017(012)
CITY OF BRISTOL PROJECT 2C24-096
REPLACEMENT OF BRIDGE NO. 04487
EAST STREET OVER PEQUABUCK RIVER**

DATE OF
BID SUBMISSION

May 3, 2024

TIME: **10:00 AM**

NO BIDS WILL BE ACCEPTED AFTER 10:00 AM "NO EXCEPTIONS"

Note: --- The bidder shall fill in, under the column "Unit Prices Bid," the unit prices, written in words and in numbers, for which he proposes to perform the various items of work called for, and under the column headed "Amount," the amount of each of the items at the unit price bid. After the proposal is opened and read, the quantities will be extended and totaled in accordance with the written bid prices and the bid will be verified or corrected.

Item Number	Items	Unit	Approximate Quantities	Unit Prices Bid		Amount (Figures)
				Figures	Writing	
0020903A	LEAD COMPLIANCE FOR MISCELLANEOUS EXTERIOR TASKS	LS	1			
0201001	CLEARING AND GRUBBING	LS	1			
0202000	EARTH EXCAVATION	CY	345			
0202100	ROCK EXCAVATION	CY	10			
0202213A	REUSE OF EXISTING CHANNEL BOTTOM MATERIAL	CY	175			
0202315A	DISPOSAL OF CONTROLLED MATERIALS	TON	1125			
0202512	CUT CONCRETE SIDEWALK	LF	30			
0202529	CUT BITUMINOUS CONCRETE PAVEMENT	LF	290			
0202911A	CONDITION SURVEY (SITE NO. 1)	LS	1			
0203202	STRUCTURE EXCAVATION-EARTH (EXCLUDING COFFERDAM AND DEWATERING)	CY	865			
0203304	STRUCTURE EXCAVATION-ROCK (EXCLUDING COFFERDAM AND DEWATERING)	CY	221			
0204001	COFFERDAM AND DEWATERING	LF	540			
0209001	FORMATION OF SUBGRADE	SY	560			
0212000	SUBBASE	CY	190			
0213100	GRANULAR FILL	CY	6			
0216000	PERVIOUS STRUCTURE BACKFILL	CY	600			
0219001	SEDIMENTATION CONTROL SYSTEM	LF	100			
0219011A	SEDIMENT CONTROL SYSTEM AT CATCH BASIN	EA	3			
0286001.10	ROCK IN DRAINAGE TRENCH EXCAVATION 0' - 10' DEEP	CY	10			
0304002	PROCESSED AGGREGATE BASE	CY	100			
0406171	HMA S0.5	TON	179			
0406173	HMA S0.25	TON	25			
0406236	MATERIAL FOR TACK COAT	GAL	60			
0406303A	SAWING AND SEALING JOINTS	LF	155			
0503001A	REMOVAL OF SUPERSTRUCTURE	LS	1			
0509001	WELDED STUDS	EA	20			
0513003	1-1/2" POLYVINYL CHLORIDE PLASTIC PIPE	LF	35			
0514217	PRESTRESSED DECK UNITS (4'-0" x 1'-0")	LF	728			
0521021A	STEEL-LAMINATED ELASTOMERIC BEARINGS	CI	30000			
0586001.10	TYPE 'C' CATCH BASIN - 0' - 10' DEEP	EA	1			
0586040.10	TYPE 'C-L' CATCH BASIN - 0' - 10' DEEP	EA	1			
0586601	RESET TYPE 'C' CATCH BASIN	EA	1			
0586750	TYPE 'C' CATCH BASIN TOP	EA	1			
0601062	FOOTING CONCRETE	CY	153			
0601064	ABUTMENT AND WALL CONCRETE	CY	217			
0601066	COLUMN AND CAP CONCRETE	CY	54			
601091A	SIMULATED STONE MASONRY	SY	68			
0601118	BRIDGE DECK CONCRETE	CY	63			
0601121	PARAPET CONCRETE	LF	8			
0601122	BRIDGE SIDEWALK CONCRETE	CY	42			

Kindly insert here the total amount of your Bid \$ _____
It is understood that the unit prices shall govern in case of discrepancy
between the unit-prices and this amount
This bid includes addenda no.: 1

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				Figures	Writing	
0601123	APPROACH SLAB CONCRETE	CY	112			
0601124	BARRIER WALL CONCRETE	CY	29			
0601502	1/2" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES	SF	240			
0601504	1" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES	SF	295			
0602030	DEFORMED STEEL BARS - GALVANIZED	LB	87200			
0603801	STRUCTURAL STEEL	CWT	13			
0686000.15	15" R.C. PIPE (0'-10' DEEP)	LF	35			
0686000.24	24" R.C. PIPE (0'-10' DEEP)	LF	18			
0703011	INTERMEDIATE RIPRAP	CY	16			
0703030A	PLACEMENT OF CHANNEL BOULDER	EA	3			
0707009A	MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC)	SY	390			
0708001	DAMPPROOFING	SY	275			
0716000	TEMPORARY EARTH RETAINING SYSTEM	SF	4120			
0728032A	NO. 6 CRUSHED STONE	CY	13			
0755009	GEOTEXTILE	SY	35			
0811001	CONCRETE CURBING	LF	104			
0813001	5" GRANITE STONE CURBING	LF	34			
0813011	5" GRANITE CURVED STONE CURBING	LF	28			
0819002A	PENETRATING SEALER PROTECTIVE COMPOUND	SY	320			
0822100.01	TEMPORARY TRAFFIC BARRIER	LF	220			
0904990A	METAL BRIDGE RAIL	LF	179			
0921001	CONCRETE SIDEWALK	SF	1120			
0921005	CONCRETE SIDEWALK RAMP	SF	250			
0921048	DETECTABLE WARNING SURFACE	SF	50			
0922501	BITUMINOUS CONCRETE DRIVEWAY	SY	100			
0924006	CONCRETE DRIVEWAY RAMP	SF	860			
0943001	WATER FOR DUST CONTROL	M. GAL.	64			
0944000	FURNISHING AND PLACING TOPSOIL	SY	310			
0950005	TURF ESTABLISHMENT	SY	310			
0969060A	CONSTRUCTION FIELD OFFICE, SMALL	MO	9			
0970006	TRAFFICPERSON (MUNICIPAL POLICE OFFICER) (ESTIMATED COST)	EST	1	\$ 15,000.00	FIFTEEN THOUSAND DOLLARS	\$ 15,000.00
0971001A	MAINTENANCE AND PROTECTION OF TRAFFIC	LS	1			
0974001	REMOVAL OF EXISTING MASONRY	CY	290			
0975004	MOBILIZATION AND PROJECT CLOSEOUT	LS	1			
0976002	BARRICADE WARNING LIGHTS - HIGH INTENSITY	DAY	2160			
0977001	TRAFFIC CONE	EA	20			
0978002	TRAFFIC DRUM	EA	20			
0979003	CONSTRUCTION BARRICADE TYPE III	EA	19			
0979004	CONSTRUCTION BARRICADE DETECTABLE	EA	4			
0980020	CONSTRUCTION SURVEYING	LS	1			

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				Figures	Writing	
1131002	REMOTE CONTROL CHANGEABLE MESSAGE SIGN	DAY	568			
1206023A	REMOVAL AND RELOCATION OF EXISTING SIGNS	LS	1			
1207041	SIGN FACE - EXTRUDED ALUMINUM (TYPE XI RETROREFLECTIVE SHEETING)	SF	20			
1210102	4" YELLOW EPOXY RESIN PAVEMENT MARKINGS	LF	470			
1210105	EPOXY RESIN PAVEMENT MARKINGS, SYMBOLS, AND LEGENDS	SF	209			
1220027A	CONSTRUCTION SIGNS	SF	308			
1301025A	TEST PIPING SYSTEM (WATER MAIN)	LS	1			
1301770A	FURNISH AND INSTALL 8" WATER MAIN ON BRIDGE	LS	1			
1301861A	FURNISH DUCTILE IRON PIPE, VALVES, AND MISCELLANEOUS FITTINGS (WATER MAIN)	LS	1			

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This bid includes addenda no. 1

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CONTRACT TIME AND LIQUIDATED DAMAGES

Two Hundred Forty-One (241) calendar days will be allowed for completion of all work as described in the contract documents for Federal Project No. 6017(012), State Project No. 0017-0192. For this contract, an assessment for liquidated damages at a rate of One Thousand Two Hundred Dollars (\$1,200) per calendar day shall be applied to each day the work runs in excess of the two hundred and forty-one (241) allowed calendar days.

Note: PRIME CONTRACTOR'S REQUIREMENTS:

A. Proposal Guaranty (Bid Bond): Except when otherwise specified, no proposal will be considered unless accompanied by a proposal guaranty in the form of a bond furnished by a surety company, satisfactory to the Engineer, in an amount equal to at least 30% of the amount of the bid, or unless the bidder has on file in the City, an annual bid bond in the proper amount.

The surety must be a corporate surety licensed to sign surety bonds in the State of Connecticut.

B. Not less than 13% of the total Contract value shall be subcontracted to, performed by, and paid to DBE.

C.

If the Contractor is unable to fulfill the DBE's percentage requirement, he may request an exception of the above percentage, by completing and submitting to the City, the "Application for Review of Pre-award Good Faith Efforts", as contained in the General Provisions.

D. Contractors must make sure that at the time of bidding, their Firms have an approved Affirmative Action Plan with the State of Connecticut, Department of Transportation.

E. Statement of Bidder's Qualifications: Each bidder is required to submit to the City a recent sworn statement of the bidder's qualifications the form furnished by the City for this purpose.

F. Prospective bidders must have a current sworn Statement (CON-16) on file with the Connecticut Department of Transportation and be prequalified to perform Group No. 8 (Minor Bridges) work. The Bidder's Prequalification approval letter signed by the CTDOT Contracts Manager shall be included as part of the bid package submitted to the Municipality.

G. Contracts will not be awarded until the above requirements have been submitted and approved.

H. Please be aware that the City, prior to the awarding of the Contract, may require further financial and other information from any applicant who becomes the low bidder for that Contract.

I. All Bidders shall submit the Pre-award DBE Commitment Approval Request form(s) to the City of Bristol NO LATER THAN FIVE (5) calendar days after the bid opening. This is a requirement of Title 49, Code of Federal Regulations (CFR) Part 26, Participation of DBEs Failure to comply with this requirement may be cause for rejection of the bid.

Kindly insert here the total amount of your Bid \$ _____
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ITEM #0503001A – REMOVAL OF SUPERSTRUCTURE

Work under this item shall conform to the requirements of Section 5.03 amended as follows:

5.03.01 - Description: Delete the first two paragraphs and replace with the following:

Work under this item shall consist of the removal and satisfactory disposal of the superstructure. Those items to be removed and disposed of shall include, but not be limited to concrete T-Beams with concrete deck, bituminous wearing surface, bridge sidewalks, bridge parapets and metal bridge rail as shown on the plans or as directed by the Engineer.

This work shall also include the design, installation, maintenance, and removal of a debris shield under the superstructure.

Work under this item shall also consist of removing, containing, and collecting existing paint from metal bridge rail, where the Contractor will use flame-cutting, arc gouging, or welding for the metal bridge rail demolition, because of the possible presence of lead in the existing paint. The removal of any lead containing materials shall be in accordance with the “Lead Compliance for Miscellaneous Exterior Tasks” special provision.

5.03.03 - Construction Methods: Add the following:

The Contractor’s attention is drawn to the Pequabuck River being considered as a no-drop zone. The Contractor shall provide full shielding below the superstructure to prevent debris, tools, and/or other materials from entering into or dropping to the area below the superstructure.

Shielding shall be installed or removed only upon approval of the Engineer. All materials used in the shielding shall become the property of the Contractor and they shall be removed from the site at the completion of the project.

All materials demolished shall become the Contractor’s property and he shall legally dispose of the demolished materials away from the project site at no additional cost to the Town.

Submittals: Prior to commencing work on this item, the Contractor shall submit to the Engineer for approval a demolition plan that delineates the methods the Contractor will use to ensure that concrete, structural steel and other demolition materials will be prevented from falling into the Pequabuck River. The Contractor’s proposed method of demolition shall include equipment, tools, devices, etc. Work shall not commence until the Engineer has given written approval of the method of demolition.

Removal: All work shall proceed as directed by and to the satisfaction of the Engineer in accordance with the details shown on the plans and the requirements of the Special Provisions “Maintenance and Protection of Traffic” and “Prosecution and Progress”, contained elsewhere in these Specifications.

The removal shall not result in damage to any permanent construction (new or existing) or to adjoining property. If any damage does occur it shall be repaired by the Contractor to the satisfaction of the Engineer at no additional expense to the Town.

The Contractor shall prepare and submit to the Engineer for review working drawings, computations, and written procedures for the removal of the existing deck and beams to the Engineer for review in accordance with Article 1.05.02. Acceptance of the Contractor's plans shall not be considered as relieving the Contractor of any responsibility.

Removal of coatings, including possible lead containing paint, and disposal of associated debris shall be in compliance with the methods and processes described in the special provision for Item "Lead Compliance for Miscellaneous Exterior Tasks".

5.03.05 - Basis of Payment: Add the following:

This price shall also include the furnishing, erecting, and removing the temporary shielding.

Disposal of lead debris will be paid for under the item "Lead Compliance for Miscellaneous Exterior Tasks".

<u>Pay Item</u>	<u>Pay Unit</u>
Removal of Superstructure	L.S.

ITEM #0703030A - PLACEMENT OF CHANNEL BOULDER

Description: Work under this item shall consist of furnishing and placing individual boulders in a single random location or in a cluster within an existing or proposed channel bed to improve or create aquatic habitat. This item shall also include maintaining a stockpile of the material on the Site, placement of the stockpiled material in the channel, and the removal and proper disposal of all unused and unacceptable material.

Materials: The individual boulder type and size used shall be as noted on the plans or as directed by the Engineer. The mineral composition and color of the individual boulder selected shall replicate, to the extent possible, the existing boulders on-Site.

Individual boulder material for this item shall be sound, durable and free from decomposed stones or other defects impairing durability, and shall be resistant to the action of air and water.

Material the Contractor proposes to use must be inspected and approved by the Engineer or their authorized delegate prior to the excavation of existing on-Site material within the Project limits or hauling of material from an off-Site source. The Contractor shall give the Engineer at least 10 work days' notice for scheduling of the inspection and approval of the individual boulders.

The following will **NOT** be accepted:

- boulders consisting of sandstone, shale, or other rock material prone to disintegration
- boulders with visible cracks or spalling
- rock excavated from ledge (bedrock) formations or broken from larger boulders
- boulders with sharp corners, angular edges, or edges as a result of cutting or crushing operations
- broken concrete.

Construction Methods: The Contractor shall submit for the Engineer's approval a proposed location plan for stockpiling individual boulders. The proposed location shall be suitable in size and upland of the channel to minimize disruption to the channel or impact to wetland areas caused by moving the materials to and from the stockpile during the placement of material. The stockpile area shall be prepared in accordance with the "Required Best Management Practices" in Article 1.10.03.

Prior to installation, the Contractor shall stake out the location for the placement of the individual boulder by indicating each boulder location and shall notify the Engineer for a field review. The final location will be at the discretion of the Engineer or their authorized delegate.

The Contractor shall provide the Engineer at least 10 work days' notice prior to initiating the placement of the individual boulders. The work and placement of the individual boulders shall be in the locations indicated on the plans or as directed by the Engineer or their authorized delegate. No work on the boulder placement will be allowed on-Site without the presence of the Engineer or their authorized delegate in order to oversee the construction activities.

Equipment: When placing and maneuvering the individual boulders within the channel or embedding individual boulders into the streambank, the Contractor shall use an excavator with a bucket and thumb. Any other equipment proposed to be used shall be reviewed and approved in advance by Engineer or their authorized delegate.

All disturbed areas, including the stockpile area, shall be permanently stabilized using approved sediment and erosion control measures and in accordance with the required "Erosion and Sedimentation Control Plan."

Method of Measurement: This work will be measured for payment for each individual boulder installed and accepted, including disposal of unacceptable and surplus materials.

Basis of Payment: This work will be paid for at the Contract unit price each for "Placement of Channel Boulder," completed and accepted. The price shall include all materials, equipment, tools and labor incidental to the preparation of the stockpile area, excavation of channel bottom, hauling of the material to the stockpile, and separation of any rock ledge or concrete debris, storing and protecting (including but not limited to sedimentation controls and covering of excavated material).

Pay Item	Pay Unit
Placement of Channel Boulder	ea.

ITEM #1301025A – TEST PIPING SYSTEM (WATER MAIN)

Description: Work under this item consists of performing a hydrostatic test for leakage of newly installed water main under Item #1301770 – Furnish and Install 8” Water Main on Bridge and Item #1301861 – Furnish and Install Ductile Iron Pipe, Valves and Miscellaneous Fittings (Water Main). The Contractor shall coordinate all testing with Bristol Water and Sewer Department in advance to schedule Bristol Water and Sewer Department staff for testing and monitoring.

Work shall include, but not necessarily be limited to:

1. All water mains shall be hydrostatic tested for leakage at 200 Psi for ½ hour and 135 Psi for 1 ½ hours.
2. Leakage shall be measured in gallons by pumping the water main back up to the required pressure at the end of the test and must not exceed allowable leakage specified in ANSI/AWWA C600-93 section 4.2.2 or its latest revision.

Materials: All water used to fill, flush and hydrostatic test the main must be potable water. Any water to be used from any water source other than the - 5 - Bristol Water and Sewer Department must be tested for bacteria by a State of Connecticut certified laboratory and test results must be submitted to the Bristol Water and Sewer Department prior to use.

The contractor shall furnish all labor and equipment necessary for tests.

Construction Methods: Tests shall be made by section or as directed by the Bristol Water and Sewer Department or its representative. Air shall be expelled by filling the main slowly and permitting air to escape at the high points. Air bleeders shall be installed at all high points and in locations directed by the Bristol Water and Sewer Department or its representative.

All valves shall be operated only by Bristol Water and Sewer Department personnel. In the event the leakage exceeds maximum allowable amount, the contractor shall take such steps that are required and necessary or as are directed by the Bristol Water and Sewer Department to reduce leakage to below the allowable maximum amount and shall replace any and all defective joints or piping and the test shall be repeated until the leakage requirements are complied with. No leak shall be repaired with a wrap around or bell/joint repair band. All visible leaks shall be repaired in any event.

The Contractor must assure water used for testing has chlorine residual of 1 mg/L. Testing water may then remain in system. The contractor shall make all necessary arrangements for obtaining supply, furnish all pumps, piping, hose, etc., and remove same when work is completed. All work shall conform to AWWA C600-65 or the latest revision thereof. All testing must be inspected by the Bristol Water and Sewer Department or its representative and shall be conducted during normal business hours of the Bristol Water and Sewer Department.

Basis of Payment: This work will be paid for at the contract lump sum price for the testing of Item #1301770 – Furnish and Install 8” Water Main on Bridge and Item #1301861 – Furnish and Install Ductile Iron Pipe, Valves and Miscellaneous Fittings (Water Main), which price shall include all materials, tools, equipment and labor for the required work to conduct the testing.

<u>Pay Item</u>	<u>Pay Unit</u>
Test Piping System (Water Main)	L.S.