



85 Branch Street
Pawtucket, RI 02860
401-729-5000
www . PWSB . org

Bid # 15-010

CONTRACT MR-10

ADDENDUM #1

April 17, 2015

To: All Bidders and other holders of Specifications.

Please acknowledge receipt of this addendum by noting its number and date on the first page of the bid proposal. Failure to do so may subject the bidder to disqualification. This Addendum becomes part of the Contract Documents and supplements and modifies same as follows:

Changes to the Contract Documents

SPECIFICATION AND PROPOSAL

1. Add pages 00310-30 through 00310-32 to the end of Section 00310 of the Bid Proposal and the Specifications. Added Federal Executive Order 12549 titled, "Debarment and Suspension" which includes a Certification page (Page 00310-32) that must be signed by the Bidder and submitted with the Bid.
2. Delete Section 02710 of the Specifications and replace with revised Section 02710. Delete Appendix A of the Specifications and replace with revised Appendix A. These revisions reflect testing and disinfection procedures specified in updated AWWA Standard C651-14.
3. Delete page 00100-1 and replace with revised page 00100-1. This revision reflects new sequence of construction due to anticipated paving by RIDOT and local DPWs.

MR10 Questions from C.B. Utility with *answers from PWSB*:

Q1. Please specify the make and model of the transitional 1" couplings for service connections (Copper x Steel, etc.)

A1. Smith-Blair 411 or equal with stainless steel bolts (Mueller 15451 or equal service fitting may be required prior to 411 connection).

Q2. Because of the vast price difference, would the PWSB provide individual line items for the cast couplings of differing size, or of more specific ranges?

A2. No – couplings will be paid as described in Section 02615.

Q3. Because there are areas where existing sewer laterals present elevation conflicts with the proposed water main, would the PWSB provide a line item(s) for sewer repair?

A3. No – damaged utilities are to be repaired at no cost to the PWSB.

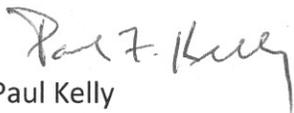
Q4. There is a line item for Test Pits per each. What are the dimensions of a test pit? Would the PWSB make payment on a cubic yard basis? This would avoid the "Time & Material" process and calculations for compensation.

A4. Test pits will be paid as described in Section 2015. There are no definitive dimensions for a test pit as this would depend on what the exploration is attempting to determine.

Addendum #1

Issued April 17, 2015

Pawtucket Water Supply Board



Paul Kelly

Engineering Project Manager

Attachments

Cc: file

DEBARMENT & SUSPENSION

Executive Order 12549--Debarment and Suspension

Source: The provisions of Executive Order 12549 of Feb. 18, 1986, appear at 51 FR 6370, 3 CFR, 1986 Comp., p. 189, unless otherwise noted.

By the authority vested in me as President by the Constitution and laws of the United States of America, and in order to curb fraud, waste, and abuse in Federal programs, increase agency accountability, and ensure consistency among agency regulations concerning debarment and suspension of participants in Federal programs, it is hereby ordered that:

Section 1. (a) To the extent permitted by law and subject to the limitations in Section 1(c), Executive departments and agencies shall participate in a system for debarment and suspension from programs and activities involving Federal financial and nonfinancial assistance and benefits. Debarment or suspension of a participant in a program by one agency shall have government-wide effect.

(b) Activities covered by this Order include but are not limited to: grants, cooperative agreements, contracts of assistance, loans, and loan guarantees.

(c) This Order does not cover procurement programs and activities, direct Federal statutory entitlements or mandatory awards, direct awards to foreign governments or public international organizations, benefits to an individual as a personal entitlement, or Federal employment.

Sec. 2. To the extent permitted by law, Executive departments and agencies shall:

(a) Follow government-wide criteria and government-wide minimum due process procedures when they act to debar or suspend participants in affected programs.

(b) Send to the agency designated pursuant to Section 5 identifying information concerning debarred and suspended participants in affected programs, participants who have agreed to exclusion from participation, and participants declared ineligible under applicable law, including Executive Orders. This information shall be included in the list to be maintained pursuant to Section 5.

(c) Not allow a party to participate in any affected program if any Executive department or agency has debarred, suspended, or otherwise excluded (to the extent specified in the exclusion agreement) that party from participation in an affected program. An agency may grant an exception permitting a debarred, suspended, or excluded party to participate in a particular transaction upon a written determination by the agency head or authorized designee stating the reason(s) for deviating from this Presidential policy. However, I intend that exceptions to this policy should be granted only infrequently.

Sec. 3. Executive departments and agencies shall issue regulations governing their implementation of this Order that shall be consistent with the guidelines issued under Section 6. Proposed regulations shall be submitted to the Office of Management and Budget for review within four months of the date of the guidelines issued under Section 6. The Director of the Office of Management and Budget may return for reconsideration proposed regulations that the Director believes are inconsistent with the guidelines. Final regulations shall be published within twelve months of the date of the guidelines.

Sec. 4. There is hereby constituted the Interagency Committee on Debarment and Suspension, which shall monitor implementation of this Order. The Committee shall consist of representatives of agencies designated by the Director of the Office of Management and Budget.

Sec. 5. The Director of the Office of Management and Budget shall designate a Federal agency to perform the following functions: maintain a current list of all individuals and organizations excluded from program participation under this Order, periodically distribute the list to Federal agencies, and study the feasibility of automating the list; coordinate with the lead agency responsible for government-wide debarment and suspension of contractors; chair the Interagency Committee established by Section 4; and report periodically to the Director on implementation of this Order, with the first report due within two years of the date of the Order.

Sec. 6. The Director of the Office of Management and Budget is authorized to issue guidelines to Executive departments and agencies that govern which programs and activities are covered by this Order, prescribe government-wide criteria and government-wide minimum due process procedures, and set forth other related details for the effective administration of the guidelines.

Sec. 7. The Director of the Office of Management and Budget shall report to the President within three years of the date of this Order on Federal agency compliance with the Order, including the number of exceptions made under Section 2(c), and shall make recommendations as are appropriate further to curb fraud, waste, and abuse.

Implementation in the SRF Programs

A company or individual who is debarred or suspended cannot participate in primary and lower-tiered covered transactions. These transactions include SRF loans and contracts and subcontracts awarded with SRF loan funds.

Under 40 C.F.R. 32.510, the SRF agency must submit a certification stating that it shall not knowingly enter into any transaction with a person who is proposed for debarment, suspended, declared ineligible, or voluntarily excluded from participation in the SRF program. This certification is reviewed by the EPA regional office before the capitalization grant is awarded.

A recipient of SRF assistance directly made available by capitalization grants must provide a certification that it will not knowingly enter into a contract with anyone who is ineligible under the regulations to participate in the project. Contractors on the project have to provide a similar certification prior to the award of a contract and subcontractors on the project have to provide the general contractor with the certification prior to the award of any subcontract.

In addition to actions taken under 40 C.F.R. Part 32, there are a wide range of other sanctions that can render a party ineligible to participate in the SRF program. Lists of debarred, suspended and otherwise ineligible parties are maintained by the General Services Administration and should be checked by the SRF agency and all recipients of funds directly made available by capitalization grants to ensure the accuracy of certifications.

Additional References

C 40 C.F.R. Part 32: EPA Regulations on Debarment and Suspension.

**CERTIFICATION REGARDING DEBARMENT & SUSPENSION
AND OTHER RESPONSIBILITY MATTERS**

In accordance with the Executive Order 12549, the prospective primary participant certifies to the best of his / her knowledge and belief, that its principals:

- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any federal department or agency;
- b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offence in connection with obtaining, attempting to obtain, or performing a public (federal, state, or local) transaction or contract under a public transaction; violation of federal or state antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (federal, state, or local) with commission of any of the offenses enumerated in paragraph (1) (b) of this certification.
- d. Have not within a three-year period preceding this application / proposal had one or more public transactions (federal, state, or local) terminated for cause of default.
- e. Acknowledge that all sub-contractors selected for this project must be in compliance with paragraphs (1) (a – d) of this certification.

Name and Title of Authorized Agent

Date

Signature of Authorized Agent

_____ I am unable to certify to the above statements. My explanation is attached.

SECTION 02710 - TESTING AND DISINFECTING WATER MAINS

PART 1 - GENERAL

1.01 DESCRIPTION

A. Scope of the Work: The work covered under this section of the Specifications includes furnishing all labor, equipment, appurtenances, and materials, and performing all operations in connection with testing and disinfecting all completed water pipelines, service connections and hydrant assemblies, and appurtenances, in accordance with this section of the Specifications and as directed by the Owner.

B. At no time is there to be a physical connection between the existing distribution system and the newly installed main, until final approval is given by the PWSB Laboratory. The complete Pressure Testing, Flushing, and Disinfecting Procedures must be completed before the final approval is given, and the Contractor is allowed to make any connections to the existing distribution system. The Contractor shall utilize a separate, temporary piping system, conforming to the requirements of Section 02750 "TEMPORARY BYPASS PIPING AND SERVICES", for flushing, filling, testing and chlorination of various sized water mains. The temporary piping system shall consist of corporation stops or valves on the supply line and the main to be filled. A reduced pressure zone device (relief valve between two check valves) shall be installed in the temporary piping system to insure that no water is allowed to return to the supply line.

C. Fire hydrants may not be used for sampling points but may be utilized as a feed source if properly flushed and the above temporary piping system installed.

D. Main line valves SHALL NOT be utilized to fill, flush, test or chlorinate water mains unless authorized and supervised by the Water Supply Board Representative.

E. Related Work Described Elsewhere:

- | | |
|---|---------------|
| 1. Ductile Iron Water Mains and Appurtenances | Section 02615 |
| 2. Fire Hydrants | Section 02644 |
| 3. Water Service Lines | Section 02650 |
| 4. Cleaning and Lining Water Mains | Section 02700 |
| 5. Temporary Bypass Piping and Services | Section 02750 |

PART 2 - PRODUCTS

2.01 MATERIALS

A. Chlorine for disinfection shall be provided and used by the Contractor, and shall conform to AWWA Specification B300 and C651, latest revisions

and be NSF-60 approved for contact with drinking water. The Contractor shall furnish the Owner a certificate of compliance that the disinfectant specified above conforms to the AWWA standards. NSF-60 approval shall be affixed to the container of chlorine.

PART 3 - EXECUTION

3.01 HYDROSTATIC TESTING

- A. Tests for leakage shall be conducted on all portions of completed water pipelines and appurtenances, and all methods and procedures for performing the testing of water mains shall be subject to the approval of the Owner. Interiors of all pipe shall be cleaned of all dirt and foreign materials prior to testing.
- B. Testing of watermains shall conform to the requirements of Section 4 of the AWWA Specification C 600, latest revision, except as herein specified.
- C. After the pipe has been laid and the trench has been backfilled, and before the work is accepted, each section of pipe shall be flushed, tested and disinfected. Water for testing and disinfection will be furnished by the Owner at no expense to the Contractor. The Contractor shall do all work and shall furnish all means and apparatus necessary for admitting water to the mains for disinfection and testing, including pumps, calibrated gages and metering devices. In sections where there are high points in the line that cannot be otherwise vented (where permanent air release valves and boxes have not been provided), at dead ends and at valved branch connections to existing mains, the Contractor shall install temporary 1-inch corporation stops and temporary suitable blowoff pipes as required, so that air can be expelled. He shall also install any riser pipes required to discharge the water used for flushing and disinfecting the mains. After the tests are completed, plug all temporary taps and remove all temporary riser pipes and other apparatus.
- D. In general, testing shall be carried out with as few permanently made-up connections to the existing water system as possible; with as many joints as practical uncovered and exposed; and in an approved manner. Pressure testing shall consist of completely filling each section from valve to valve with water from the water distribution system and maintaining a hydrostatic test pressure of **150 psi**, measured at the highest point in the section, and shall be required to hold the pressure for **at least 2 hours**.
- E. Testing of watermains shall be performed by the Contractor at his expense and in the presence of the Water Supply Board Representative. The Water Supply Board Representative shall witness every test and rule on its acceptance. All samples will be taken by the Water Supply Board Representative.
- F. If the specified pressure cannot be held for the required time (see app. A - Pressure and Disinfection Procedure), the Contractor shall locate and repair the leaks and the pipelines shall be retested, repeatedly if

necessary, by the Contractor, until the pressure test requirements are met, at no additional expense to the Owner.

3.02 DISINFECTING WATERMAINS AND APPURTENANCES

- A. All portions of completed watermains and appurtenances are to be disinfected before acceptance for operation by the Owner. The entire Testing and Disinfection procedure requires that the Contractor work closely under the direction of the Water Supply Board Representative who will coordinate the entire procedure with the PWSB Laboratory and the Contractor.
- B. Watermains shall be disinfected by the Contractor in conformance with the PWSB Procedure for Disinfecting Water Mains (see Appendix A), and shall be witnessed and approved by the Water Supply Board Representative.
- C. To prevent possible back flow or siphonage of contaminants into the water distribution system which is in service, the Contractor shall be required to provide a reduced pressure zone device (relief valve between two check valves) installed from the distribution system to the water main being treated and to provide such other safety and control measures as directed by the Water Supply Board Representative.
- D. Before disinfection, water mains and services shall be thoroughly flushed. A turbidity reading of below five (5) shall be monitored by the Water Supply Board Representative before flushing is discontinued and chlorination may begin. Flushing shall be at a rate sufficient to create a water velocity of at least 3.0 feet per second through the pipe.
- E. A corporation stop(s) shall be provided at a location(s) for feeding of the liquid chlorine solution within five (5) feet of one end, and at locations designated by the Water Supply Board Representative for sampling points. All sampling points shall be within 10 feet of the end points of the new main to be tested and chlorinated, all as determined by the Water Supply Board Representative. Copper tubing shall be used for all chlorination and sampling pipe. Chlorine shall be continuously fed in a liquid solution, made from crystalline sodium hypochlorite. All samples shall be taken at the same sampling points (copper tubing) for the entire procedure and shall follow the same flow pattern throughout the testing procedure (point A to point B).
- F. The initial chlorine concentration in the pipe shall be at least 25 mg/L when tested by the Water Supply Board Representative. The treated water will remain in the water main for at least twenty-four (24) hours. After the twenty-four hour retention period the chlorine concentration in the pipe shall be no less than 10 mg/L when tested by the Water Supply Board Representative. If, after the applicable retention period, the chlorine concentration is at least 10 mg/L the heavily chlorinated water shall be flushed from the main until the chlorine concentration in the water leaving the main when tested is no higher than 1 mg/L, and the turbidity is less than 1.0. If the chlorine concentration when tested is less than 10 mg/L, this procedure shall be repeated.

- G. Bacteriological testing shall be done by the Water Supply Board Representative a minimum of 16 hours after the final flushing and before the water main is put into service. A standard heterotrophic plate count (HPC) test may be required at the option of the owner. Once the main has been allowed to stand for a minimum of 16 hours, the first sample shall be immediately taken without flushing the main. While the sample tap is left running from the first sample, a second sample shall be taken a minimum of 15 minutes after the first sample was taken. Each sample usually requires a twenty-four (24) hour period to insure that no coliform organisms exist. If the testing is positive, the procedure shall be repeated. No water main shall be put into service without the written permission of the Owner.
- H. Under certain conditions, an emergency type chlorination may be conducted with the written approval of the Chief Engineer.
- I. Chlorination of valves, fittings and short lengths of main (less than 50 ft) that will not be included in the normal chlorination procedure shall be thoroughly disinfected by contact swabbing and/or brushing with a high strength sodium or calcium hypochlorite solution in the concentration of 500 milligrams of available chlorine per liter of water.
- J. The Contractor shall be responsible for satisfactory disposal of all flushing water and chlorinated water at no additional expense to the Owner.
- K. The Contractor shall submit, to the Owner for prior approval, the type of chlorine to be used, the disinfection experience of the workers, and the procedures and equipment to be used by the Contractor.
- L. The Contractor is hereby warned that water main disinfection shall only be accomplished by specially trained personnel, and that the project's water mains are vital to the safety and well being of the municipality.
- M. The Contractor's workers who are responsible for the water main work should be aware of the potential health hazards with chlorine and should be trained to observe carefully the prescribed construction practices and disinfection procedures. The effectiveness of disinfection depends in large measure on maintaining clean pipes and avoiding major contamination during construction.
- N. The Contractor shall give thorough consideration to the impact of highly chlorinated water flushed to the receiving environment. If there is any question that damage may be caused by a chlorinated waste discharge (to fish life, plant life, physical installations, or other downstream water uses of any type), then an adequate amount of reducing agent should be applied by the Contractor to water being disposed of, in order to neutralize thoroughly the chlorine residual remaining in the water.
- O. A Pawtucket Water Supply Board Pressure and Disinfection Procedure and a short Summary is included in these Specifications as Appendix "A".

3.03 METHOD OF MEASUREMENT

- A. The work and materials required by this section of the Specifications including the temporary corporation stops and temporary piping systems, will not be measured separately for payment.

3.04 BASIS OF PAYMENT

- A. No separate payment will be made under this section of the Specifications for testing and disinfection of water mains and related work. Compensation for such work as required, shall be considered to be included in the prices bid for other applicable items of work under this contract.

END OF SECTION

APPENDIX A



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WATER MAIN DISINFECTION PROCEDURE

The following procedures shall be strictly adhered to after the installation of new water mains, the cleaning and lining of existing water mains, or as directed by the Pawtucket Water Supply Board.

DISINFECTION PREPARATIONS

- a. The contractor shall utilize a by-pass piping system for flushing, filling, testing and chlorination of various sized water mains. The by-pass piping shall consist of corporation stops or valves on the supply line and the main to be filled. A reduced pressure zone device (relief valve between two check valves) shall be installed in the temporary piping system to insure that no water is allowed to return to the supply line. Fire hydrants may be utilized for feed points only if properly flushed and the above by-pass piping is installed. Fire hydrants SHALL NOT be used as sample points. Line valves SHALL NOT be used under any circumstances to fill, flush, test or chlorinate water mains. Newly installed water main SHALL NOT be physically connected to an existing distribution system water main until all flushing, disinfection and testing has been completed.
- b. During construction or cleaning water main sections, joints and valves must be kept CLEAN and DRY as possible.
- c. A corporation stop shall be provided within 5 feet of the beginning of the new main for feeding of the liquid chlorine, and at sampling locations designated by the Pawtucket Water Supply Board Chemist or a member of the Engineering staff. These sampling locations shall be within 10 feet of the end of the section of main to be chlorinated. This will be to provide for sampling points along the main. Hydrants shall not be used for sampling points but may be used as a feed point for chlorination. Copper tubing shall be used for all chlorination and sampling pipe.
- d. Chlorination of valves, fittings, and short lengths (under 50 feet long), of main shall be disinfected by contact swabbing and/or brushing with a 4-percent NSF-61 approved sodium or calcium hypochlorite solution.
- e. Mains shall be pressure tested to 1.5 times the system working pressure, and shall be required to hold pressure for at least two hours. This shall be verified by a member of the Water Supply Engineering Department.

DISINFECTION OF WATER MAINS, TEMPORARY MAINS, AND SERVICES

All mains and appurtenances shall be disinfected with NSF-61 approved chlorine in accordance with provisions of the American Water Works Association Standard C651, latest revision thereof, AND as follows:

- a. Water mains and services shall be thoroughly flushed. Flushing shall be at a rate sufficient to create a water velocity of at least 3.0 feet per second through the pipe. A turbidity reading of less than 5.00 NTU and a

color of less than 15 Hazen units must be verified by the Water Supply Representative prior to introduction of chlorine.

- b. NSF-61 approved liquid chlorine in the form of sodium hypochlorite with a concentration of 5-15% shall be introduced into the main(s) to be tested. The chlorine solution must come into contact with ALL sections of the main that is to be disinfected. The whole main must be filled with chlorinated water (no air), and the concentration of such water must not be less than 25 milligrams per liter as verified by a Water Supply Representative.
- c. The superchlorinated water must stand isolated in the main for at least twenty four (24) hours. After this MINIMUM retention time, the Water Supply Representative will re-test the concentration of chlorine in the main at all the sampling points. The concentration must be a least 10 mg/L. If concentration is below this level, step (b) must be repeated.
- d. Once the concentration is verified, the superchlorinated water must be flushed from the main through the various sampling points until the concentration of residual chlorine at each sampling point reaches a level of no higher than 1.5 mg/L (or system level) and turbidity of less than 1.00 NTU (or system level) as verified by the Water Supply Representative.
- e. Microbiological testing will be done a minimum of 16 hours after step (d) has been completed, but BEFORE the main is put into service. A Water Supply Representative will obtain samples at all sampling points along the main for analysis to determine if coliform bacteria is present. These samples are tested in accordance with the Enzyme Substrate Coliform Test (SM-9223B) and, if required, the Standard Heterotrophic Plate Count Procedure (SM-9215B). Within 24 hours the results will be made available by the Water Supply Chemist. If results indicate the presence of coliform bacteria, further flushing will be required, and new samples must be obtained. Once the main has been certified by the Water Supply Chemist, the main may be place into service with permission of the Chief Engineer.
- f. Under certain conditions, an emergency type chlorination may be conducted with the written approval of the Chief Engineer.

DISPOSING OF HEAVILY CHLORINATED WATER

FINAL FLUSHING - Disposal of heavily chlorinated water shall be in in accordance with provisions of the American Water Works Association Standard C651, latest revision thereof, AND as follows:

Heavily chlorinated water that possibly may discharge as runoff to any body of water, river or stream shall be neutralized by treating with sulfur dioxide. Such locations shall be determined by the Water Supply Representative. The primary choice of neutralizing agent is sulfur dioxide but the contractor may use, if requested, an approved substitute as listed in AWWA Std. C655, latest revision. The chlorine residual of the discharge flow shall be continuously monitored to allow the adjustment of the sulfur dioxide feed to thoroughly neutralize the water discharge. Otherwise, all other heavily chlorinated water will be discharged as runoff to the roadway surface or to the sewer system which shall be in accordance with the current rules and regulations governed by the local sewer authority. The following list is of the streets in Pawtucket that have drains that empty directly into a river and therefore any discharge must be dechlorinated before entering into the drainage system.

List of Streets in Pawtucket with Storm Drains Emptying into River
All Heavily Chlorinated Water Must Be Dechlorinated Prior to Discharge

<u>Street</u>	<u>Section of Street</u>
Archer St.	Clews to Maplecrest
Arland Ave. (North not South)	Rice to Pinecrest
Armistice Blvd.	All of the Street
Central Ave.	Arland to Diana
Daggett Ave.	Huthinson to Central
Daggett Ave.	Winsor to Stafford
Daggett Ave.	Lindesta to Eddington
Eddington St.	All of the Street
Fenwood Ave.	All of the Street
Grosvenor Ave.	All of the Street
Grotto Ave.	Power to Legion Dr.
Huthinson Ave.	All of the Street
Leather Ave.	All of the Street
Liverpool St.	Bristol to London
London Ave.	All of the Street
Manton St.	All of the Street
Maplecrest Dr.	Archer to Karen
Maryland Ave.	All of the Street
Nathael Ave.	All of the Street
Parkside Ave.	All of the Street
Pearson Ave.	All of the Street
Piave St.	All of the Street
Rice St.	Kirk to Arland
Riverview Ave	All of the Street
Roosevelt Ave.	Exchange to Leather
School St.	Exeter to Beverage Hill
Service Rd.	All of the Street
Smithfield Ave.	Piave to Grotto
Stafford St.	All of the Street
Talcott Ave.	All of the Street
Terrace Ave.	All of the Street
Varnum Ave	All of the Street



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PAWTUCKET WATER SUPPLY BOARD

WATER MAIN DISINFECTION PROCEDURE SUMMARY

A. PRESSURE TEST:

NOTIFY PWSB LABORATORY THAT MAIN IS READY FOR TESTING & DISINFECTION. 1.5 TIMES THE SYSTEM WORKING PRESSURE FOR 2 HOURS. COMPLIANCE CHECKED BY THE WATER SUPPLY BOARD ENGINEERING DEPT.

B. FLUSHING:

FLUSH AT VELOCITY OF AT LEAST 3.0 FEET PER SECOND. TURBIDITY AND COLOR WILL BE VERIFIED BY WATER SUPPLY REPRESENTATIVE. TURBIDITY MUST BE LESS THAN 5.00 NTU AND COLOR LESS THAN 15 UNITS BEFORE CHLORINE CAN BE ADDED.

C. CHLORINATION:

ADD NSF-61 APPROVED LIQUID CHLORINE TO OBTAIN A MINIMUM CONCENTRATION OF 25 mg/L. WATER SUPPLY REPRESENTATIVE WILL TEST FOR COMPLIANCE. ALLOW TO STAND FOR 24 HOURS. RESIDUAL MUST BE NOT LESS THAN 10 mg/L. WATER SUPPLY REPRESENTATIVE WILL TEST FOR COMPLIANCE.

D. MICROBIOLOGICAL SAMPLING:

FLUSH HEAVILY CHLORINATED WATER FROM MAIN, UNTIL CHLORINE IS NO HIGHER THAN 1.50 mg/L (or system level) AND TURBIDITY IS LESS THAN 1.00 NTU (or system level). ONCE MAIN HAS BEEN ALLOWED TO STAND FOR A MINIMUM OF 16 HOURS, THE WATER SUPPLY REPRESENTATIVE WILL TAKE SAMPLE(S) FOR COLIFORM BACTERIA (AND HPC, IF REQUIRED) TESTS. WATER SUPPLY CHEMIST WILL ADVISE OF COMPLIANCE WITHIN 24 HOURS.

E. COMPLIANCE AND CERTIFICATION:

WATER SUPPLY CHEMIST WILL SEND DISINFECTION CERTIFICATE TO WATER SUPPLY ENGINEERING.

WATER SUPPLY ENGINEERING WILL ADVISE WATER SUPPLY T&D SUPERVISOR OR CONTRACTOR TO TIE IN AND PLACE MAIN IN SERVICE.

NO MAIN SHALL BE TURNED ON WITHOUT WATER SUPPLY CHEMIST CERTIFICATE OF COMPLIANCE.

NOTE: IF COLIFORM TESTING IS POSITIVE, STEPS C. AND D. MUST BE REPEATED.

SECTION 00100

INFORMATION FOR BIDDERS

ARTICLE 1. RECEIPT AND OPENING OF BIDS:

The Pawtucket Water Supply Board, acting herein through its Chairman (herein called the "Owner"), invites bids on the forms attached hereto, all blanks of which must be appropriately filled in. Bids will be received by the Owner at the Office of the Purchasing Agent, City Hall, 137 Roosevelt Avenue, Pawtucket, Rhode Island, 02860, as stated in the Advertisement for Bids, at which time they will be publicly opened and read aloud. The envelopes containing the bids must be sealed, addressed to the Central Purchasing Board, Office of the Purchasing Agent, City Hall, 137 Roosevelt Avenue, Pawtucket, Rhode Island, 02860, and designated as "BID FOR CONTRACT MR-10".

ARTICLE 2. LOCATION AND DESCRIPTION OF WORK:

The work consists of, but is not necessarily limited to, furnishing all labor, equipment, appurtenances and incidentals, and performing all operations in connection with the REPLACEMENT/INSTALLATION OF APPROXIMATELY 34,000 LINEAR FEET OF 6", 8", 12", 16", 20", AND 24" CAST IRON MAIN including excavation and backfill, restoration of pavement surfaces, lawns, and rights-of-way; furnishing and installing all ductile iron pipe, valves, fire hydrants, bends, thrust blocks, water service materials, and temporary by-pass service pipe for maintaining water service as required, all as specified in these documents. All work completed under this project shall conform to the applicable standards of the American Water Works Association (AWWA) Standards; Rules and Regulations Pertaining to Public Drinking Water as promulgated by the RI Department of Health, latest edition; Recommended Standards for Water Works (Ten States Design Standards), latest edition. All water treatment chemicals shall comply with NSF/ANSI Standard 60; all water treatment and/or distribution system products shall comply with NSF/ANSI Standard 61.

ARTICLE 3. SEQUENCE OF WORK:

Based upon a Notice to Proceed for the contract work included in the TOTAL BASE BID (Proposal), the work sequence shall be determined at the preconstruction meeting.

- | | | |
|------------------------|----------------|-----|
| 1. East Ave, Pawtucket | 5. Hunt St, CF | 9. |
| 2. Central St, CF | 6. | 10. |
| 3. Fuller St, CF | 7. | 11. |
| 4. High St, CF | 8. | 12. |



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MR-10 Improvement Contract Prebid Conference Attendance Sign-In Sheet 4/16/2015

Company/Organization	Attendee	Address	Phone	Fax	Email
D'ERCOLE CONSTRUCTION	PAUL D'ERCOLE	2800 PLAINFIELD PIKE	942-8090	947-8090	PAUL@DERCOLECONSTRUCTION.COM
C.B. UTILITY CO., INC.	CHRIS BRITO	79 TUPELO ST	253-0450		CWBRITO@CB-UTILITY.COM
PAUL KELLY					
BOSCH CONST CO.	BILL PERCY	44 MAIN AVE BRISTOL, RI	265-7889		T.WATSON@bosch.com
PWSB	PAUL KELLY	85 BRANCH ST	729-5033	726-6493	pkelly@pwsb.org
PWSB	Tony Goncalves	"	729-5030	"	TGoncalves@PWSB.org
PWSB	RICH ANTONELLI	85 BRANCH ST.	729-5011		R.ANTONELLI@PWSB.ORG
C.B. UTILITY CO., INC.	KEVIN FERREIRA	99 TUPELO ST. BRISTOL RI 02809	401-253-9277	401-253-0450	KFERREIRA@CB-UTILITY.COM
PWSB	James DeCelle	85 Branch St			decelle@pwsb.org
PWSB	Russ Houde	" "			R.HOUDE@PWSB.ORG



CD Pick-Up Sheet
Water Distribution System Improvements MR-10 Main Replacement
15-010

Company Name	Rep. Name	Phone #	E-mail address
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Rosciti	Frank P. Watson	401-351-6681	fwatson@rosцитi.com
D'ERCOLE CONSTRUCTION	PAUL D'ERCOLE	401-942-8070	PAUL@DERCOLECONSTRUCTION.COM
The Vellano Companies	Ken DiFonzo	401-447-7333	kendevellano.com
HD Supply Waterworks	Paul Gunning	781-407-9133	paul.gunning@hdsupply.com
WA Excavating, Inc.	Tony Raposa	401-244-2720	tony@waexcavating.com
CMD Group Fed-Ex	Ben Davis	770-417-4175	ben.davis@cmdgroup.com
MATERIAL CONCRETE	Louis Tamblon	49-829-0733	Louis@MATERIALCONCRETE.COM

AS of 4/15 11:00 AM Please leave your business card. Thank You!