

INVITATION FOR BID (IFB)

WATER METER INSTALLATION AND RETROFIT PROJECT



TOWN OF LONGMEADOW
MASSACHUSETTS

July 22, 2010

**INVITATION FOR BID
WATER METER INSTALLATION AND RETROFIT PROJECT
TOWN OF LONGMEADOW, MASSACHUSETTS**

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LEGAL NOTICE:

INVITATION FOR BID

**WATER METER INSTALLATION AND RETROFIT PROJECT
TOWN OF LONGMEADOW, MASSACHUSETTS**

The Town of Longmeadow is accepting bids for water meter installation and retrofitting of existing meters with transmitters. All meters and transmitters will be supplied by the Town. Complete directions and specifications are available at the following office: Town of Longmeadow, Attn: Chad Thompson-Purchasing Coordinator, 735 Longmeadow Street, Suite 101, Longmeadow, MA 01106. Phone: 413-565-4136. Bid documents are also available at www.longmeadow.org, select the 'Purchasing Dept' tab, then select the link labeled: Government RFP, Bid & Contract Finder. Bidders are encouraged to register with the Purchasing Coordinator.

Bids will be received at the office of the Purchasing Coordinator until the bid deadline of **10:00am on Thursday, August 5, 2010**. Late bids will be rejected. Sealed bids should be labeled 'IFB-Water Meter Installation and Retrofit Project'. A 5% bid deposit in the form of a bid bond, certified check or money order is required with the bid submission. Immediately following the bid deadline, bids received will be publicly opened at the fire department conference room located at 44 Williams Street.

The contract is subject to the availability of funding. The successful bidder shall comply with all prevailing wage laws and compensation of prevailing wage rates for applicable trades. Upon contract award 100% performance and payment bonding is required.

The Town of Longmeadow acting through the Town Manager, the Awarding Authority reserves the right to reject any or all bids, waive minor informalities and to award the contract in the best interest of the Town.

I. GENERAL INFORMATION AND BID SUBMISSION REQUIREMENTS

The Town of Longmeadow is accepting bids for water meter installation and retrofitting of existing meters with transmitters. All meters and transmitters will be supplied by the Town. The vendor shall also provide all coordination and scheduling for the work. The specifications attached in **Appendix B** are to demonstrate the type of equipment that is to be installed as well as the requirements for the coordination, scheduling and installation. This equipment will be bid and purchased under a separate contract and be supplied as “owner furnished” equipment to be installed under this contract. What is to be installed will depend upon who the provider is for this equipment (i.e. the winning bidder for a separate contract). Generally speaking the contractor for this procurement is to provide labor and materials to install owner furnished meters and transmitters, or just transmitters on the existing Badger meters to be retrofit. The existing meters that are to be retrofit do not have encoder registers therefore the installer will need to gain access to the homes to install the new transmitters on the existing meters. As far as required work on the outside registers for retrofits, this will depend on the equipment provided by the other contract which is unknown at this time. All, except approximately 12 meters, are inside meters. The 12 others are in pits. Sealed proposals should be delivered to the following address: Town of Longmeadow, Attn: Chad Thompson-Purchasing Coordinator, 735 Longmeadow Street, Suite 101, Longmeadow, MA 01106 (Phone: 413-565-4136).

Bids will be received until the 10:00am on Thursday, August 5, 2010. Late bids will be rejected:

A. TIME FOR BID ACCEPTANCE

The contract will be awarded within sixty (60) calendar days of the bid deadline due date. The time for award may be extended by mutual agreement between the Town and the submitter of the bid deemed most advantageous to the Town.

B. ADDENDA

If any changes are made to this IFB, an addendum will be issued. Addenda will be mailed, faxed, or e-mailed to all parties on record as having picked up the IFB. All Addenda issued by the Town of Longmeadow will be posted on the Town website at www.longmeadow.org, under the ‘Purchasing Dept’ tab, then select the link: Government RFP, Bid & Contract Finder, and any and all addenda issued will can be found under the link with the same title as this IFB solicitation. All addenda and updates will be posted on the Town website no later than 48 hours prior to the bid deadline. It is the responsibility of all bidders to check this site for any addenda and updates within 48 hours of the bid deadline.

C. QUESTIONS

All questions concerning the Invitation for Bid (IFB) must be submitted in writing to: Town of Longmeadow, Attn: Chad Thompson-Purchasing Coordinator, 735 Longmeadow Street, Suite 101, Longmeadow, MA 01106. Questions may also be submitted by fax: 413-565-4372 or by email: cthompson@longmeadow.org. Questions must be received no later than the bid deadline time five (5) calendar days before the bid deadline. Questions received after the deadline for questions will not be answered.

In the event that a question or comment modifies the content of the IFB, an addendum will be issued to all those that have registered with the Longmeadow Purchasing Coordinator.

D. CORRECTIONS, MODIFICATIONS

A proposer may correct, modify, or withdraw a proposal by written notice received by the Town, prior to the time and date set for receipt of proposals. Proposal modifications must be submitted in a sealed envelope, clearly labeled "Modification No. ". Each modification must be numbered in sequence, and must reference the original RFP. After the receipt of proposals, a proposer may not change any provision of the proposal in a manner prejudicial to the interests of the Town or fair competition. Minor informalities will be waived or the proposer will be allowed to correct them. If a mistake and the intended price are clearly evident on the face of the price proposal document, the mistake will be corrected to reflect the intended correct price proposal, and the proposer will be notified in writing; the proposer may not withdraw the proposal. A proposer may withdraw a proposal if a mistake is clearly evident on the face of the price proposal document, but the intended correct price proposal is not similarly evident.

E. RIGHT TO CANCEL OR REJECT

The Town may cancel this IFB, or reject in whole or in part any and all bids, if the Town determines that cancellation or rejection serves the best interests of the Town.

F. UNEXPECTED CLOSURE

If, at the time of the scheduled receipt of bids, the office of the Purchasing Coordinator is closed due to uncontrolled events such as fire, snow, ice, wind, or building evacuation, the bid deadline for the receipt of bids will be postponed until 10:00am on the next normal business day.

G. PRICES ON THE BID SUBMISSION FORMS

All bid prices submitted in response to this IFB must remain firm for sixty (60) days following the bid deadline. The estimated quantities are approximate but very close to the actual numbers and are given as a uniform basis for comparison of bids. The Town of Longmeadow expressly reserves the right to increase or decrease this estimated quantity to meet actual requirements.

In the event that there is a discrepancy in the interpretation of pricing, the pricing shall be calculated utilizing the 'Unit Item Price' as documented by the bidder on the Bid Submission Forms.

H. WITHDRAWAL

No bidder may withdraw his/her proposal for a period of sixty (60) days, excluding Saturdays, Sundays, and legal holidays, after the actual date of the receipt thereof.

I. PROPOSAL OWNERSHIP

All bids, including attachments, supplementary materials, rendering sketches, addenda, etc. shall become upon submission, the property of the sponsor, and will not be returned to the submitting consultant.

J. CONTRACT

A sample contract providing the terms and conditions is provided in Attachment A. The contract will be executed with the successful bidder after bids have been received and an award has been made.

K. PREVAILING WAGE RATES

All bids received should be inclusive of prevailing wage rates. The contract will be subject to the provisions of MGL Chapter 149. Wages are subject to minimum wage rates determined by the Massachusetts Department of Labor and Industries pursuant to MGL Chapter 149, Section 26 and 27H. The wage rates are supplied in **Appendix C**.

II. INSTRUCTIONS TO BIDDERS

The Town of Longmeadow is accepting bids for water meter installation and retrofitting of existing meters with transmitters. All meters and transmitters will be supplied by the Town. Complete directions and specifications are available at the following office: Town of Longmeadow, Attn: Chad Thompson-Purchasing Coordinator, 735 Longmeadow Street, Suite 101, Longmeadow, MA 01106. Phone: 413-565-4136. Bid documents are also available at www.longmeadow.org, select the 'Purchasing Dept' tab, then select the link labeled: Government RFP, Bid & Contract Finder. Bidders are encouraged to register with the Purchasing Coordinator.

Bids should be submitted utilizing the Bid submission Forms provided by the Town. The bidder certifies that the bid is made without collusion. The bidder agrees to supply the service in strict accordance with the bid documents, which consist of the Bid Submission Forms and all attachments hereto. The submitted bid must be without conditions, or exceptions or modifications to the bid document.

The Town of Longmeadow acting through the Town Manager, the Awarding Authority reserves the right to reject any or all bids, waive minor informalities and to award the contract in the best interest of the Town.

A. NUMBER OF COPIES

Each bidder should submit one (1) copy of the bid.

B. ENVELOPE MARKING

Bids will be received at the office of the Purchasing Coordinator until the bid deadline of 10:00am on Thursday, August 5, 2010. Late bids will be rejected. **Sealed bids should be labeled: 'IFB-Water Meter Installation and Retrofit Project'**. Immediately following the bid deadline, bids received will be publicly opened at the fire department conference room at 44 Williams Street (do not, deliver bids to the Fire Department).

C. AUTHORIZED SIGNATORY

A bid must be signed as follows: 1) if the bidder is an individual, by her/him personally; 2) if the bidder is a partnership, by the name of the partnership, followed by the signature of each general partner; and 3) if the bidder is a corporation, by the authorized officer, whose signature must be attested to by the Clerk/Secretary of the corporation and the corporate seal affixed.

D. BID SECURITY

The Bid Deposit shall be supplied with the bid submission in the amount of five (5) percent of the Total Bid Price. The Bid Deposit should be in the form of a Bid Bond, or certified check or treasurers/cashiers check issued by a responsible bank or trust company payable to the Town. A bid received without a Bid Deposit will be rejected.

E. BONDING REQUIREMENTS

The selected Contractor will be required to provide a 100% Payment Bond, and a 100% Performance Bond, with a surety company acceptable to the Town. The Performance and Payment Bond shall be conditioned on the prompt payment of all supplies used or employed in performance of the contract work. No assignment, modification or change of the contract, or change in the contract work, or any extension of time for the completion of the work, may release the surety on the bonds. The bonds shall be subject to approval as to sufficiency and form by the Town.

III. DESCRIPTION OF REQUIRED SUPPLIES/SERVICES

In general, the supplies and services to be furnished may be summarized as follows:

1. Installation of all Owner-Supplied Meters and Transmitters to replace an estimated 3,388 existing meters including all supplies, fittings, supports etc. required for installation.
2. Installation of all Owner-Supplied Transmitters for retrofitting an estimate 2,228 meters for automated reading meters including all supplies, fittings, supports etc. required for installation.

A. CONTRACT TERM LENGTH

Unit prices will remain firm over the entire length of the contract. This is a fixed unit price contract. It is intended that the meters will be installed within one calendar year.

B. REQUIRED QUANTITY

The quantities of transmitters and water meters listed in the Bid Submission Forms are estimated quantities which are considered to be accurate. The unit prices bid for these items shall hold for greater or fewer transmitters or water meters be required.

C. LIQUIDATED DAMAGES

The Bidder agrees to fully complete the installation of the meters and transmitters within one calendar year (365 days) of receipt of an executed Contract for the work. The Bidder further agrees to pay the Town, as liquidated damages, \$100 per day for each calendar day beyond this date or extension thereof that the installation remains incomplete.

IV. BID EVALUATION

A. QUALITY REQUIREMENTS

Bidders must provide all of the items described in Section III: Description of required supplies/services and comply with all Bid Submission Form requirements and instructions referenced in Sections I and II, respectively. Additionally, bidders must meet the following Minimum Vendor Qualification requirements:

- 1 Bidders must supply with their Bid Submission Forms a list of any litigation, with appropriate explanation, against their firm in the period from January 2004 to date. Any unfavorable circumstances after evaluation by the Town may be grounds for the Town to reject a bid.

B. REFERENCES

- 1 Proposers must submit a list of all meter and transmitter installation projects, similar in size and scope to Longmeadow, for which they provided goods and installation services in the past five years. Minimum Vendor Qualification Requirement: Bidders who have no experience with meter and transmitter installation projects of similar size and scope as the Longmeadow project will be rejected due to the lack of experience and qualifications. Provide the following information for all projects:
 - a. Utility Name and Address
 - b. Contact Name, Title, and Phone Number

The Town reserves the right to ask any proposer to provide additional supporting documentation in order to verify its response. .

V. RULE FOR AWARD

The contract will be awarded to the responsive and responsible bidder offering the best price that meets the Town's quality requirements.

APPENDIX A
SAMPLE CONTRACT (TO BE COMPLETED UPON CONTRACT AWARD)

**CONTRACT FOR THE PROCUREMENT
OF
GOODS AND SERVICES**

WATER METER INSTALLATION AND RETROFIT PROJECT

VENDOR

(Good/Service Description)

DATE, 2010



**Town of Longmeadow
20 Williams Street
Longmeadow, Massachusetts 01106**

TOWN OF LONGMEADOW, MASSACHUSETTS
Contract Documents for the Procurement of Goods and Services

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Certificate of Non-Collusion	7
Town of Longmeadow, Invitation for Bid: Water Meter Installation and Retrofit Project, dated July 22, 2010	Attachment A
_____ Bid Submission Form for the Town of Longmeadow, Invitation for Bid: Water Meter Installation	Attachment B

AGREEMENT

The following provisions shall constitute an Agreement between the Town of Longmeadow, acting by and through its Town Manager and/or Select Board, hereinafter referred to as "Town", and _____, with an address of _____ hereinafter referred to as "Contractor", effective as of the _____ day of _____, 2010. In consideration of the mutual covenants contained herein, the parties agree as follows:

ARTICLE 1: SCOPE OF WORK:

The Contractor shall perform all work in accordance with the specifications contained in Attachment A - Scope of Services: Town of Longmeadow, Invitation for Bid: Water Meter Installation and Retrofit Project, dated July 22, 2010.

ARTICLE 2: TIME OF PERFORMANCE:

The contractor shall complete all work and services required on or before (within 365 days of the effective date). If completion is not achieved by said date, the Contractor shall be liable to the Town for liquidated damages in the amount of \$100.00 per calendar day.

ARTICLE 3: COMPENSATION:

The Town shall pay the Contractor for the performance of the work outlined in Article 1 above, the contract sum of _____ in accordance with the provisions of the specifications, or as set forth in an attachment hereto in Attachment B, the price proposal.

ARTICLE 4: CONTRACT DOCUMENTS:

The following documents form the Contract and all are as fully a part of the Contract as if attached to this Agreement herein:

1. This Agreement.
2. Amendments, or other changes mutually agreed upon between the parties.
3. All attachments to the Agreement.

In the event of conflicting provisions, those provisions most favorable to the Town shall govern.

ARTICLE 5: CONTRACT TERMINATION:

The Town may suspend or terminate this agreement by providing the Contractor with ten (10) days written notice for the reasons outlined as follows:

1. Failure of the Contractor, for any reason, to fulfill in a timely and proper manner its obligations under this Agreement
2. Violation of any of the provisions of this Agreement by the Contractor.
3. A determination by the Town that the Contractor has engaged in fraud, waste, mismanagement, misuse of funds, or criminal activity with any funds provided by this Agreement.

ARTICLE 6: INDEMNIFICATION:

The Contractor shall, to the maximum extent permitted by law, indemnify and save harmless the Town of Longmeadow, its officers, agents and employees from and against any and all damages, liabilities, actions, suits, proceedings, claims, demands, losses, costs and expenses (including reasonable attorneys' fees) that may arise out of or in connection with the work and/or service being performed or to be performed by the Contractor, its employees, agents, or subcontractors. The existence of insurance shall in no way limit the scope of this indemnification. The Contractor further agrees to reimburse the Town of Longmeadow for damage to its property caused by the contractor, its employees, agents, subcontractors or materials. Contractor shall be solely responsible for all local taxes or contributions imposed or required under the Social Security, Workers Compensation, and income tax laws. Further, the Contractor shall indemnify and hold harmless the Town with respect to any damages, expenses, or claims arising from or in connection with any of the work performed or to be performed under this Agreement.

ARTICLE 7: AVAILABILITY OF FUNDS:

The compensation provided by this Agreement is subject to the availability and appropriation of funds. The contractor shall be obligated to provide services hereunder, only to the extent that said funds are available.

ARTICLE 8: APPLICABLE LAW:

The Contractor agrees to comply with all applicable local, state and federal laws, regulations and orders relating to the completion of this Agreement. This Agreement shall be governed by and construed in accordance with the law of the Commonwealth of Massachusetts.

ARTICLE 9: ASSIGNMENT:

The Contractor shall not make any assignment of this Agreement without the prior written approval of the Town.

ARTICLE 10: AMENDMENTS:

All amendments or any changes to the provisions specified in this Contract can only occur when mutually agreed upon by the Town and Contractor. Further, such amendments or changes shall be in writing and signed by officials with authority to bind the Town. Additionally, all amendments and changes shall be approved by the Town Accountant prior to execution by the awarding authority. No amendment or change to the contract provisions shall be made until after the written execution of the amendment or change to the Contract by both parties.

ARTICLE 11: INSURANCE:

The Contractor shall be responsible to the Town or any third party for any property damage or bodily injury caused by it, any of its subcontractors, employees or agents in the performance of, or as a result of, the work under this Agreement. The Contractor and any subcontractors used hereby certify that they are insured for workers compensation, property damage, personal and product liability. The Contractor and any subcontractor it uses shall purchase, furnish copies of, and maintain in full force and effect insurance policies in the amounts here indicated.

General Liability

Bodily Injury Liability:	\$1,000,000 per occurrence
Property Damage Liability	\$1,000,000 per occurrence
(or combined single limit)	\$1,000,000 per occurrence

Automobile Liability

Bodily Injury Liability:	\$1,000,000 per occurrence
Property Damage Liability	\$1,000,000 per occurrence
(or combined single limit)	\$1,000,000 per occurrence

Workers' Compensation Insurance

Coverage for all employees in accordance with Massachusetts General Laws

Prior to commencement of any work under this Agreement, the Contractor shall provide the Town with Certificates of Insurance which include the Town as an additional named insured and which include a thirty day notice of cancellation to the Town.

ARTICLE 12: PREVAILING WAGE RATES

Prevailing Wage Rates as determined by the Commissioner of the Department of Labor and Workforce Development under the provisions of Massachusetts General Laws, Chapter 149, Section 26 to 27G, as amended, apply to this project. It is the responsibility of the Contractor to provide the Town with certified payrolls and to comply with all requirements of the above-cited statutes. The schedules of prevailing wage rates are included in the Contract Documents.

ARTICLE 13: SAFETY AND PROTECTION

Protection of the Work and Owner's Property: The Contractor shall at all times safely guard the Owner's property from injury or loss in connection with this Agreement. The contractor shall at all times safely guard and protect their own work, and that of adjacent property from damage. The Contractor shall replace or make good any such damage, loss or injury. The Contractor shall clean the work area and restore it to its original condition upon the completion of the work.

The Contractor shall comply with all applicable OSHA, State and municipal regulations and requirements for services and facilities in the performance of all requirements of this contract. OSHA safety requirements and training certification shall be adhered to for all personnel working on Town property.

ARTICLE 14: 100% PERFORMANCE BOND & 100% PAYMENT BOND

A 100% Performance Bond and a 100% Payment Bond is required with a contract award. All bonds shall name the Town of Longmeadow for coverage.

CERTIFICATION AS TO PAYMENT OF STATE TAXES

Pursuant to M.G.L.v.62C, S49A, I certify under the penalties of perjury that the Contractor has complied with all laws of the Commonwealth of Massachusetts relating to taxes.

Social Security Number or
Federal Identification Number

Signature of Individual or
Corporate Name

By: _____
Corporate Officer
(If applicable)

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed on the day and year first above written.

CONTRACTOR

TOWN of LONGMEADOW

by _____

Printed Name and Title

Awarding Authority Authorization:

by its Town Manager, Robin Crosbie

and/or by its Select Board:

TOWN OF LONGMEADOW

Department Authorization:

Department Org/Object for Appropriation

by its Department Head

Procurement Compliance:

by its Purchasing Coordinator

Certification as to Availability of Funds:

by its Town Accountant

CERTIFICATE OF VOTE
(Corporations only should complete this form)

At a duly authorized meeting of the Board of Directors of the

_____ held on _____ it was VOTED that
(Name of Corporation) (Date)

(Name) (Officer)

of this company, be and hereby is authorized to execute contracts and bonds in the name and on behalf of said company, and affix its corporate seal hereto; and such execution of any contract or obligation in this company's name on its behalf by such officer under seal of the company, shall be valid and binding upon this company.

I hereby certify that I am the clerk of the above named corporation and that _____ is the duly elected officer as above of said company, and that the above vote has not been amended or rescinded and remains in full force and effect as the date of this contract.

Date

(Clerk)

Corporate
Seal

CERTIFICATE OF INSURANCE

(PROVIDE AN INSURANCE CERTIFICATE NAMING THE TOWN AS INSURED UNDER THE POLICY)

This is to certify that the _____ (Company) has issued the policies listed below, that these policies are written in accordance with the Company's standard policies and endorsements, except as indicated below or as noted in the attachments hereto, which policies and endorsements will be made available to OWNER upon request, that they provide coverage and limits of liability shown with respect to the insurance indicated, that they are in force on this date, that all deductible amounts are indicated below, and that this Certificate is furnished in accordance with and for the purpose of satisfying the requirements of OWNER in connection with the award and performance of a contract or agreement between the Town of _____ (OWNER) and

1. Name of Insured _____
 2. Address of Insured _____
 3. Location and Description of Work _____
- Project Contract No. _____

Coverage and Limits of Liability
(at least as shown below)

Bodily Injury Liability	Property Damage Liability
----------------------------	------------------------------

Policy Number	Effective Date	Expiration Date	Each Occurrence	Each Aggregate	Aggregate
------------------	-------------------	--------------------	--------------------	-------------------	-----------

A. Owners Protective Liability has been issued at the expense of Above Insured
to _____ (Owner)

\$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000

B. Comprehensive General Liability

\$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000

Including: 1. Operations/Premises 2. XCU 3. Products/Completed Operations
4. Contractual as Below 5. Independent Contractors
6. Broad Form Property Damage 7. Personal Injury

C. Auto Liability

	Each	Each	Each
Including: 1. All Owned	Person	Accident	Accident
2. Hired	\$1,000,000	\$1,000,000	\$1,000,000
3. Non-owned			

D. Workman's Compensation

Compensation Statutory State(s)
Coverage B Limit \$1,000,000 if Applicable

E. Umbrella Liability

\$ _____ Aggregate

F. Builder's Risk Insurance - "All Risk" Completed Value Form
\$ _____
As Specified in Contract or Agreement

CERTIFICATE OF NON-COLLUSION

The undersigned certifies under the penalties of perjury that this bid or proposal has been made and submitted in good faith and without collusion or fraud with any other person.

As used in this certification, the word “person” shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals.

(Signature of person signing bid or proposal)

(Name of Business)

(Date)

**APPENDIX B
SPECIFICATIONS**

Contents

01011 – Existing Conditions

01025 – Measurement & Payment

02642 – AMR Meter Module Requirements

02643 – Cold Water Meters – Displacement Type, 1-1/2” and 2” Magnetically Driven

02644 – Cold Water Meters – Displacement Type 5/8", 5/8x3/4", 3/4x3/4", and 1"
Magnetically Driven With Electronic Encoder Register

02645 – Installation of Water Meters and Retrofitting of Meters

SECTION 01011
EXISTING CONDITIONS

PART 1 GENERAL

1.01 LONGMEADOWWATER SYSTEM

A. The Town of Longmeadow, with a population of approximately 16,000 residents, operates a municipal water system serving all residents and businesses in Longmeadow. Water is purchased from the Springfield Water and Sewer Commission, and pumped into a storage tank and distribution system and consisting of approximately 99.3 miles of water mains ranging in size from 1-inch to 16-inch diameter. The average daily demand is approximately 2 million gallons per day (mgd), and the maximum day demand is approximately 5 mgd. The Town usage is not expected to increase as the town is substantially built out. Town records indicate the total number of consumer meters is 5616. Approximately 97 percent of the system is residential. The Town currently uses Radix for its meter reading software. Billing software is currently from MUNIS.

B. OCCUPANCY

Homeowners, businesses, and municipal entities will occupy their premises during performance of the work, for the conduct of their normal operations. Coordinate all operations with Town to minimize conflict and to facilitate homeowner, business and Town usage.

C. ABBREVIATIONS AND REFERENCES

- 1 ANSI American National Standards Institute ASCE American Society of Civil Engineers ASTM American Society for Testing and Materials

AWWA American Water Works Association NEMA National Electrical
Manufacturers Association

- 2 Where reference is made to a specification or standard by one of the
above-mentioned or other associations, it is understood that the
specification or standard in effect at the time of the Invitation for Bid
submittal shall apply, regardless of the edition listed in the Specifications.

END OF SECTION

SECTION 01025
MEASUREMENT AND PAYMENT

PART1 GENERAL

1.01 METER WITH TRANSMITTER AND METERS RETROFIT WITH
TRANSMITTERS (Price Proposal Items 1.1 through 1.12)

A. Measurement and Payment

1. Measurement shall be on the basis of the number of meters with transmission units (Transmitters) and retrofit transmitters actually installed. Payment shall be made at the price listed in the Bid Submission Forms under Items 1.1 through 1.12.

END OF SECTION

**SECTION 02642
AMR METER MODULE REQUIREMENTS**

PART I GENERAL

This section describes the modules to be provided as Owner-furnished equipment to be installed under this contract

1.01 SCOPE OF WORK

- A. Furnish all labor, equipment and incidentals necessary for the installation of new Owner-furnished meters and transmitters.

PART 2 PRODUCTS (TO BE PROVIDED BY OTHERS)

2.01 TRANSMITTER TYPES

- A. **BADGER® ORION® RTR® TRANSMITTER** – A single transmitter encapsulated in epoxy shall be required for submerged and non-submerged applications. The transmitter shall be factory connected to a Badger® Recordall® Transmitter Register (RTR). The Badger ORION RTR Transmitter shall be of a flexible design that allows for mounting the transmitter in through the lid, below the lid or in above ground remote applications.
- B. **INTEGRAL TRANSMITTER** – A single integral transmitter encapsulated in epoxy is available for mounting directly to the meter in any indoor, outdoor, or submerged pit environment. The integral transmitter must not have any exposed wires between the encoder register and the transmitter. As an option, the integral transmitter may be ordered with 3 feet of wire enclosed in the integral housing that may be removed by the customer at a later date to mount the transmitter away from the meter.

All Badger ORION RTR Transmitters shall include a published 20-year pro-rated warranty to minimize the cost of ownership.

2.02 COMMUNICATION PARAMETERS

The Transmitters shall be designed to operate at 916.45 MHz +/- 1 MHz. The receiver shall be wide band, single channel with -105 dBm sensitivity. The field strength shall be no greater than 94dbuV/Meter @ 3 Meters. All Transmitters shall require no customer license as specified in FCC Part 15, Subpart C.

2.03 REGISTRATION

All Transmitters shall be connected to a Badger Recordall Transmitter Register (RTR) which shall provide for visual registration at the meter. The Badger RTR shall function in temperature variations from 32°F (0°C) to 110°F (43°C). The signal transmission assembly shall induce no drag that could result in accelerated wear of the meter or cause under registration.

ADE (Absolute Digit/Digital Encoder) type registers will not be deemed an approved equal to Badger Meter Recordall Transmitter Register (RTR) Transmitter Register (RTR)

2.04 MODULE REQUIREMENTS

A. Transmitter

The BADGER® ORION® RTR® transmitter shall be packaged in an enclosure constructed of high impact waterproof plastic and encapsulated in epoxy. The transmitter enclosure shall be factory potted and wired to Recordall Transmitter Register and can be stored or operated in temperatures ranging from -40° to 140°F. The transmitter shall operate in atmospheres of 0% to 100% condensing humidity. A single transmitter shall be designed for installation in either submerged or non-submerged applications to reduce inventory costs. Each transmitter shall weigh a maximum of 18 oz. An optional integral transmitter that mounts directly to the meter and has no exposed wires shall also be available for submerged and non-submerged environments. The integral transmitter must not have any exposed wires between the encoder register and the transmitter. As an option, the integral transmitter may be ordered with 3 feet of wire enclosed in the integral housing that may be removed by the customer at a later date to mount the transmitter away from the meter.

The Universal Transmitter shall also be available fully potted and programmed from the factory for connectivity to the Badger Meter ADE®, Sensus® ECR II or ICE™ register, Neptune® ProRead® and E-coder™, Hersey® Translator or the Elster AMCo® Scancoder™. Connectivity to all encoders listed above must be done through a single transmitter that does not require field programming.

Transmitters shall be purchased with an optional Data Profiling feature with the capability to store over 21,000 consumption readings, based on an hourly time interval. Transmitter shall be able to accumulate over two years worth of customer usage for analysis.

B. Transmitter Register

The Badger Recordall Transmitter Register (RTR) consists of a mechanical local register combined with electronic circuitry capable of

producing a signal compatible with the Remote Transmitter, the Integral Transmitter, the Pit Transmitter, or Integral Pit Transmitter. The electronic circuitry shall contain a piezoelectric switch, which shall be covered by US Patent.

The transmitter shall be water resistant, constructed of a scratch resistant glass face, non-corrosive metal bottom, and non-gasketed permanent seal. The encoder shall have a plastic or bronze lid that covers the glass face for added protection with an optional serial number for identification. The electronic encoder register shall provide a digital output based on a piezoelectric solid-state switch with a digital output resolution of 1/10th of the register test circle. The output of the electronic encoder register must have the characteristics of an open drain Field Effect Transistor (FET) and shall require no electrical contacts to stick, wear, or corrode.

The RTR shall consist of a permanently sealed glass face and metal bottom to eliminate moisture, dirt, and other contaminants. The electronic encoder register must exceed all applicable requirements of the AWWA standards and C707 regarding moisture intrusion. The electronic encoder register offered must consist of a six-digit straight-reading mechanical odometer totalizer located in the six o'clock position, a 360° test circle with full-face sweep hand, and a flow finder to detect leaks. The Badger® RTR® is enclosed in a self-contained plastic shroud assembly with either plastic or bronze lid and is magnetically coupled to the meter-measuring element.

The Badger RTR encoder should also provide an optional submersible connector for present and future connectivity. This plug-n-play connector will allow utilities to easily migrate to any current or future Badger Meter approved technology solution without having to splice wires.

The Badger RTR encoder, due to its simplicity in design, shall have been successfully life tested to accumulate 25 million gallons.

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SECTION 02643
COLD WATER METERS - DISPLACEMENT TYPE
1-1/2" and 2" MAGNETICALLY DRIVEN

PART 1 GENERAL

This specification covers cold water meters in sizes 1-1/2" and 2" and the materials and workmanship employed in their fabrication. The displacement meters must be of the type known as nutating disc meters, which are positive in action in that the discs displace or carry over a fixed quantity of water for each nutation of the disc when operated under positive pressure. Only meters manufactured within the continental limits of the United States shall be acceptable. Meters that conform to latest revision of AWWA C700 shall receive consideration. Single jet, Multijet, and Piston Type Disc Meters will not be deemed to be an approved equal to a nutating disc type meter.

1.01 SCOPE OF WORK

- A. Furnish all labor, equipment and incidentals necessary for installing new Owner-furnished meters and transmitters as specified.

PART 2 PRODUCTS TO BE OWNER FURNISHED

2.01 SIZE, CAPACITY, AND LENGTH

- A. Size

The operating and physical characteristics shown in Table 1 and Table 2 shall determine the nominal size of meters.

- B. Capacity

The nominal capacity ratings and the related pressure loss limits shall be those shown in Table 1 for the safe maximum operating capacities.

- C. Length

The lengths of the meters shall be the face to face dimensions of the spuds shown in Table 2.

2.02 CASES

- A. All meters shall have an outer case with separate, removable measuring chambers. Casings shall not be repaired in any manner. The inlet and outlet shall have a common axis. Connection flanges shall be parallel

- B. The size, model, and direction of flow through the meters shall be cast in the top side of all meter outer cases.
- C. Casings of meters 1-1/2" and 2" shall be of copper alloy of not less than 75 percent copper capable of withstanding a hydrostatic burst pressure of 600 psi. The housing shall be designed so that at a working pressure of 150 psi, any distortion will not affect the accuracy of the meter, as specified by customer's supplemental specifications.

2.03 EXTERNAL CLOSURE SCREWS, BOLTS, NUTS, AND WASHERS

All external closures shall be designed for easy removal after long services.

2.04 CONNECTIONS FOR 1-1/2" AND 2" METERS

- A. Main-Case Connections
Main-case connections for meters 1-1/2" and 2" sizes shall be flanged or have meter casing spuds with external straight threads conforming to American National Standard Institute (ANSI) B2.1 as far as the specifications apply. Pitch diameters shall be those shown in Table 2. Flanges
- B. Flanges shall be of the elliptical type. The number of bolt holes and the diameter of the bolt holes and bolt circle shall be as shown for companion flanges in Table 3.
- C. Companion Flanges

Elliptical companion flanges, gaskets, bolts and nuts shall be provided if required by the purchaser's supplemental specifications. Companion flanges shall be faced, drilled and tapped in conformance with (ANSI) B2.1. Dimensions shall be as shown in Table 3.

2.05 MEASURING CHAMBERS

The measuring chambers shall be self-contained units, molded without secondary machining, firmly seated, easily removed from the main cases and shall not be a part of the main case. Both halves of the measuring chamber and the internal element shall be marked with the manufacturer's symbol or name. The chamber shall be secured to the main case so that the accuracy of the meter will not be affected by any distortions of the case when operating at a pressure of 150 psi. All chambers shall be equipped with a replaceable, reversible thrust roller bearing insert assembled in the wall of the chamber. Control of disc spindle motion shall be by means of a cone and support structure molded as an integral part of the chamber top. The support structure shall also serve to position the lower drive

pawl, magnet shaft, and magnet assembly which transmits disc nutations to the register. Single jet, Multijet, and Piston Type Disc Meters will not be deemed to be an approved equal to a nutating disc type meter.

2.06 DISCS

The measuring disc shall be of the nutating type, made of a suitable engineering thermoplastic polymer molded without secondary machining. The disc shall be equipped with a thrust roller and a stainless steel disc spindle. The disc nutations shall not exceed the quantities given in Table 1. Single jet, Multijet, and Piston Type Disc Meters will not be deemed to be an approved equal to a nutating disc type meter.

2.07 STRAINERS

All meters shall be provided with strainer screens of rigid molded thermoplastic material which fit snugly, are easy to remove, and have an effective straining area at least double that of the main-case inlet.

2.08 Seal Wire Holes

Register and generator box screws and inlet and outlet coupling nuts, if furnished, shall be drilled for seal wire. Seal wire holes shall not be less than 3/32" in diameter.

2.09 MATERIALS

A. Pressure Casings (Main Casings)

All 1-1/2" and 2" meters shall have a top and bottom meter case closure made of a copper alloy containing not less than 75% copper as specified by customer's supplemental specifications.

B. Register Box Enclosures, Rings and Lids

Register box enclosures, rings and lids shall be made of an engineering thermoplastic or other suitable synthetic polymer.

C. Measuring Chamber

The measuring chamber, 1-1/2" and 2", shall be made of a dimensionally stable reinforced thermoplastic molded without secondary machining. They shall be of two-piece snap joint and be secured in the main casing so that the accuracy of the meter shall not be affected by any distortion of the cases when operating at pressures to 150 psi. All chambers shall be equipped with a removable, reversible thrust roller insert, inserted into the

wall of the chamber. The bearing surface of the insert shall be at least 1/5 the thickness of the outside diameter of the thrust roller head.

D. Discs

Discs shall be made of a suitable synthetic polymer with specific gravity approximately equal to that of water. The disc shall have sufficient dimensional stability to retain operating clearances at working temperatures to 80°F and not warp or deform when exposed to operating temperature to 100°F.

E. Measuring Chamber Diaphragms

Measuring chamber diaphragms shall be an integrally molded part of the measuring chamber halves.

F. External Fasteners

External fasteners shall be made of a suitable synthetic polymer or corrosion resisting stainless steel.

G. Coupling Tailpieces and Nuts

Coupling tailpieces and nuts shall be made of a copper alloy containing not less than 57% copper or a suitable synthetic polymer.

H. Companion Flanges

Companion flanges shall be made of cast iron or, when specified by the purchaser's supplemental specifications, of a copper alloy containing not less than 75 percent copper.

2.10 REGISTRATION ACCURACY

The meters shall meet the following requirements for accuracy when tested with potable water at a minimum temperature of 80°F.

- A. At any rate of flow within the normal test flow limits specified in Table 1, the meter shall register not less than 98.5% and not more than 101.5% of the water actually passed through the meter.
- B. At the minimum test flow rate specified in Table 1, the meter shall register not less than 95% and not more than 101.0% of the water actually passed through the meter.

2.11 PRESSURE REQUIREMENT

Meters supplied under this specification shall operate without leakage or damage to any part at a working pressure of 150 psi.

2.12 WORKMANSHIP AND MATERIALS

The manufacturer shall repair or replace, without charge, those parts in which a defect has developed within 18 months from date of shipment upon their return to the manufacturer or upon proper proof of a defect, except that the warranty shall not apply if the meter has been modified by the use of replacement parts not made by the manufacturer. The manufacturer shall have a minimum of 10 years of experience in the design and manufacture of encoder registers for water meters.

2.13 REJECTED METERS

The manufacturer shall repair or replace, at its option, without charge, all meters rejected for failure to comply with this specification.

TABLE 1 - METER PERFORMANCE CHARACTERISTICS

Meter Size Inches / mm	Required Safe Maximum Operating Capacity (GPM)	Maximum Pressure Loss At AWWA Safe Maximum Operating Capacity (PSI)	Recommended Maximum Rate For Continuous Operations (GPM)	Minimum Test Flow (GPM)	Normal Test Flow Limits (GPM)	Maximum Number of Disc Nutations:	
						Per 1 Gallon	Per 1 Cubic Foot
1-1/2" Hex NPT	120	7.3 @ 100 GPM	80	1-1/4	2-1/2-120	5.97	44.63
1-1/2" Elliptical	120	7.3 @ 100 GPM	80	1-1/4	2-1/2-120	5.97	44.63
2" Hex NPT	170	8.6 @ 160 GPM	100	1-1/2	2-1/2-170	3.64	27.2
2" Elliptical	170	8.6 @ 160 GPM	100	1-1/2	2-1/7-170	3.64	27.2

TABLE 2 - DIMENSIONAL DESIGN LIMITS FOR METERS AND EXTERNAL CONNECTIONS

Meter Size Inches	Meter Length		Nominal Thread Size Inches	Pitch Diameter		Coupling Nuts Pitch Diameter		Coupling Tailpieces	
	Threaded Spud Ends Inches	Flanged Ends Inches		Minimum Inches	Maximum Inches	Minimum Inches	Maximum Inches	Length Inches	Nominal Thread Size Inches
1-1/2" Hex	12-5/8"	-----	1-1/2"	1.780"	1.822"	-----	-----	-----	-----
2" Hex	15-1/4"	-----	2"*	2.253"*	2.296"	-----	-----	-----	-----
1-1/2"	-----	13"	-----	-----	-----	-----	-----	-----	-----
2"	-----	17"	-----	-----	-----	-----	-----	-----	-----

* Internal Threads

TABLE 3 - COMPANION FLANGE DIMENSIONS

Meter Size Inches	Minimum Thickness at Bolt Hole Inches	Diameter of Bolt Circle Inches	Number of Bolt Holes	Diameter of Bolt Holes Inches, Min.	Thickness at Hub Inches
1-1/2"	9/16"	4"	2	11/16"	13/16"
2"	5/8"	4-1/2"	2	11/16"	7/8"

SECTION 02644
COLD WATER METERS – DISPLACEMENT TYPE
5/8", 5/8x3/4", 3/4x3/4", and 1"
MAGNETICALLY DRIVEN WITH ELECTRONIC ENCODER REGISTER

PART 1 GENERAL

This specification covers Owner-furnished cold water meters in sizes 5/8" 5/8x3/4", 3/4x3/4", and 1" and the materials and workmanship employed in their fabrication. The displacement meters will be of the type known as nutating disc meters, which are positive in action in that the discs displace or carry over a fixed quantity of water for each nutation of the disc when operated under positive pressure. Meters shall conform to latest revision of AWWA C700. Single jet, Multijet, and Piston Type Disc Meters will not be deemed to be an approved equal to a nutating disc type meter.

1.01 SCOPE OF WORK

- A. Furnish all meters and specified.
- B. Furnish all labor, equipment and incidentals necessary for installing new valves and transmitters as specified.
- C. Coordinate all work necessary for providing a complete and operational AMR system

1.02 SUBMITTALS

Submit to the Town, as provided in Section 01300 of these specifications, copies of all materials required to establish compliance with the specifications. Submittals shall include shop drawings showing important details of construction, installation instructions including drawings and descriptive literature, bulletins and/or catalogs of equipment, operating and maintenance instructions, repair manuals, and parts manuals.

1.03 Affidavit of Compliance

PART 2 PRODUCTS

2.01 SIZE, CAPACITY, AND LENGTH

- A. **Size.** The operating and physical characteristics shown in Table 1 and Table 2 shall determine the nominal size of meters.
- B. **Capacity -** The nominal capacity ratings and the related pressure loss limits shall be those shown in Table 1 for the safe maximum operating capacities.

- C. Length - The lengths of the meters shall be the face-to-face dimensions of the spuds shown in Table 2.

2.02 CASES

- A. All meters shall have an outer case with separate, removable measuring chambers. Casings shall not be repaired in any manner. The inlet and outlet shall have a common axis. Connection flanges shall be parallel.
- B. The size, model, and direction of flow through the meters shall be molded/cast in the topside of all meter outer cases.
- C. Casings of meters 5/8", 5/8x3/4", 3/4x3/4", and 1" shall be of copper alloy of not less than 75 percent copper or suitable synthetic polymer capable of withstanding a hydrostatic burst pressure of 600 psi (or 450 psi with frost bottom). The housing shall be designed so that at a working pressure of 150 psi, any distortion will not affect the accuracy of the meter, as specified by customer's supplemental specifications.

2.03 FROST PROTECTION DEVICES FOR BRONZE METERS

The bottom closure of the outer casing for 5/8", 5/8x3/4", 3/4x3/4", and 1" meters shall be of such design that the bottom closure will yield or break under normal freezing conditions to minimize damage to any other part of the meter when specified by customer's supplemental specifications.

2.04 EXTERNAL CLOSURE SCREWS, BOLTS, NUTS, AND WASHERS

All external closures shall be designed for easy removal after long services.

2.05 CONNECTIONS FOR 5/8", 5/8X3/4", 3/4X3/4", AND 1" METERS

- A. Main-Case Connections - Main-case connections for meters 5/8", 5/8x3/4", 3/4x3/4", and 1" sizes shall be meter casing spuds having external straight threads conforming to American National Standard Institute (ANSI) B2.1 as far as the specifications apply. Pitch diameters shall be those shown in Table 2.
- B. Coupling Nuts -Coupling nuts, if required by the purchaser's supplemental specifications, shall have internal straight pipe threads conforming (ANSI) B2.1 as far as the specifications apply. Pitch diameters shall be those shown in Table 2.
- C. Coupling Tailpieces - Coupling tailpieces, if required by purchaser's supplemental specifications, shall have external taper pipe threads conforming to (ANSI) B2.1 and internal diameters that are approximately equal to the nominal thread size of the tailpiece. Lengths and thread sizes shall be those shown in Table 2.

2.06 REGISTERS

All meters shall be so designed as to permit, at purchaser's option, the use of either a straight reading, permanently sealed local register or an electronic encoder register for connection to an automatic or automated meter reading system. The registration reading shall be U.S. gallons, cubic feet, meters cubed or other units as specified by purchaser. The register shall not be in contact with the water being measured. The register device shall be so designed to permit removal and exchange without removal of the meter from the service installation or interruption of service water supply. The register shall be tamper protected through the use of a specially designed stainless steel screw or plastic pin.

2.07 ELECTRONIC ENCODER REGISTER

The transmitter shall meet applicable requirements of C707 and remain fog-free of moisture. The transmitter shall consist of a mechanical local register combined with electronic circuitry to provide a digital electronic switch closure. This electronic encoded register assembly shall transmit a signal through properly shielded (grounded) transmission wire.4.8.1 The EER circuitry design shall contain a piezoelectric transducer. The electronic encoder register shall provide non-proprietary, digitally formatted data to the AMR device representing accurate meter information.

- A. The EER enclosure shall include a test hand that covers the entire dial face and a totalizing odometer. The digital output of the encoder is equal to 1/10 of the quantity indicated by a single revolution of the test hand and it shall be that shown in Table 3 for the initial dial. The dial face shall have division gradients of 1/100th of the units of registration.
- B. The EER shall be designed to assemble to the meter with a four-position bayonet and seal screw fastening. The register must be factory pre-wired to remote and pit mounted AMR devices requiring no wiring in the field. Optionally, factory pre-wired registers to remote or pit installed AMR devices shall be available.
- C. The meter size and units of registration, U.S. gallons, cubic feet, meters cubed or as specified by purchaser, shall be designated on the ER dial face. Every register shall utilize a flow indicator for leak detection.
- D. The EER shall be encased in a housing, which shall be a glass lens and a copper bottom. No plastic register lens or bottoms are allowed.
- E. The EER shall provide a digital switch closure. The minimum time the switch shall be closed is 10 milliseconds. The maximum time the switch shall be closed is 100 milliseconds.
- F. The EER shall operate with an open circuit input voltage up to 30 volts across the output wires.

- G. The EER must be permanently sealed to provide moisture resistance to flooded pit or submerged conditions. The permanent seal between the glass lens and copper (metal) bottom shall utilize an adhesive seal without the use of gaskets. Absolutely no gasketed seals will be allowed.
- H. It is the preference of the Town that the electronic encoder register offered is constructed of a scratch resistant glass face, non-corrosive metal bottom, and adhesive seal. The encoder shall have a lid/shroud that covers the glass face for added protection and optional identification of serial number. Absolutely no oil filled encoder register shall be accepted.

2.08 REGISTER BOXES

The name of the manufacturer shall be permanently cast or molded in the lid of the register box. The lid and shroud components shall overlap to protect the lens. The serial number of the meter shall be imprinted on the lid.

2.09 MEASURING CHAMBERS

The measuring chambers shall be self-contained units, molded without secondary machining, firmly seated, easily removed from the main cases and shall not be a part of the main case. Both halves of the measuring chamber and the internal element shall be marked with the manufacturer's symbol or name. The chamber shall be secured to the main case so that the accuracy of the meter will not be affected by any distortions of the case when operating at a pressure of 150 psi. Control of disc spindle motion shall be by means of a cone shape structure molded as an integral part of the chamber.

2.10 DISCS

The measuring disc shall be of the nutating type, made of a suitable engineering thermoplastic polymer molded without secondary machining. The disc shall be equipped with a thrust roller. The disc nutations shall not exceed the quantities given in Table 1. Single jet, Multijet, and Piston Type Disc Meters will not be deemed to be an approved equal to a nutating disc type meter.

2.11 STRAINERS

All meters shall include components that provide a strainer/screen function, molded out of a thermoplastic material

2.12 SEAL WIRE HOLES (OPTIONAL FOR SEAL WIRE TAMPERPROOF METHOD)

Register housing screw and inlet and outlet coupling nuts, if furnished, shall be drilled for seal wire. Seal wire holes shall not be less than 3/32" in diameter.

2.13 MATERIALS

- A. Pressure Casings (Main Casings)
- B. All 5/8", 5/8x3/4", 3/4x3/4", and 1" meters shall have a top and bottom meter case closure made of virgin grade engineering thermoplastic or of a copper alloy containing not less than 75% copper as specified by customer's supplemental specifications. The bottom closure for the copper alloy housing may be cast iron or a thermoplastic material as specified by customer's supplemental specifications.
- C. Register Box Enclosures, Rings, Lids
Register box enclosures, rings, and lids shall be made of engineering thermoplastic or other suitable synthetic polymer.
- D. Measuring Chamber
The measuring chamber, 5/8", 5/8x3/4", 3/4x3/4", and 1", shall be made of a dimensionally stable reinforced thermoplastic molded without secondary machining. They shall be of two-piece snap joint and be secured in the main casing so that the accuracy of the meter shall not be affected by any distortion of the cases when operating at pressures to 150 psi.
- E. Discs
Discs shall be made of a suitable synthetic polymer with specific gravity approximately equal to that of water. The disc shall have sufficient dimensional stability to retain operating clearances at working temperatures to 80°F and not warp or deform when exposed to operating temperature to 100°F.
- F. Measuring Chamber Diaphragms

Measuring chamber diaphragms shall be an integrally molded part of the measuring chamber halves.
- G. External Fasteners
External fasteners shall be made of a suitable synthetic polymer or corrosion resisting stainless steel.
- H. Coupling Tailpieces and Nuts
Coupling tailpieces and nuts shall be made of a copper alloy containing not less than 57% copper or a suitable synthetic polymer.

2.14 REGISTRATION ACCURACY

The meters shall meet the following requirements for accuracy:

- A. At any flow rate within normal test flow limits specified in Table 1, the meter shall register not less than 98.5% and not more than 101.5% of the water actually passed through the meter.

- B. At the minimum test flow rate specified in Table 1, the 5/8" and 5/8"x3/4" plastic meters shall register not less than 98.5% and not more than 101.0% of the water actually passed through the meter.
- C. At the minimum test flow rate specified in Table 1, the 5/8", 5/8"x3/4" and 1" bronze meters shall register not less than 95% and not more than 101.0% of the water actually passed through the meter
- D. At the minimum test flow rate specified in Table 1, the 3/4"x3/4" meter shall register not less than 97% and not more than 101.0% of the water actually passed through the meter.

2.15 PRESSURE REQUIREMENT

Meters supplied under this specification shall operate without leakage or damage to any part at a working pressure of 150 psi.

2.16 WORKMANSHIP AND MATERIALS

The manufacturer shall repair or replace, without charge, those parts in which a defect has developed within 12 months from date of shipment upon their return to the manufacturer or upon proper proof of a defect, except that the warranty shall not apply if the meter has been modified by the use of replacement parts not made by the manufacturer.

2.17 REJECTED METERS

The manufacturer shall repair or replace, at its option, without charge, all meters rejected for failure to comply with this specification.

TABLE 1 - METER PERFORMANCE CHARACTERISTICS

Meter Size Inches / mm	Required Safe Maximum Operating Capacity (GPM)	Maximum Pressure Loss At AWWA Safe Maximum Operating Capacity (PSI)	Recommended Maximum Rate For Continuous Operations (GPM)	Minimum Test Flow (GPM)	Normal Test Flow Limits (GPM)	Maximum Number of Disc Nutations:	
						Per 1 Gallon	Per 1 Cubic Foot
5/8" Plastic	25	7.4 @ 20 GPM	15	1/4	1/2 - 25	49.59	370.9
5/8" Bronze	20	7.6 @ 20 GPM	15	1/8	1/4 - 20	57.1	427.1
5/8"x3/4" Plastic	25	5.0 @ 20 GPM	15	1/4	1/2 - 25	49.59	370.9
5/8"x3/4" Bronze	20	5.7 @ 20 GPM	15	1/8	1/4 - 20	57.1	427.1
3/4"x3/4" Bronze	35	7.3 @ 30 GPM	25	3/8	3/4 - 35	31.6	236.8
1" Bronze	55	5.3 @ 50 GPM	40	1/2	1 - 55	14.5	108.8

TABLE 2 - DIMENSIONAL DESIGN LIMITS FOR METERS AND EXTERNAL CONNECTIONS

Meter Size Inches	Meter Length Threaded Spud Ends Inches	Meter Spuds Nominal Thread Size Inches	Meter Housing Spuds Pitch Diameter		Coupling Nuts Pitch Diameter		Coupling Tailpieces	
			Minimum Inches	Maximum Inches	Minimum Inches	Maximum Inches	Length Inches	Nominal Thread Size Inches
5/8"	7-1/2"	3/4"	0.978	0.988	0.992	1.002	2-3/8"	1/2"
5/8"x3/4"	7-1/2"	1"	1.227	1.237	1.242	1.252	2-1/2"	3/4"
3/4"x3/4"	9"	1"	1.227	1.237	1.242	1.252	2-1/2"	3/4"
1"	10-3/4"	1-1/4"	1.563	1.573	1.580	1.590	2-5/8"	1"

TABLE 3 - MAXIMUM INDICATION ON INITIAL DIAL AND MINIMUM REGISTER CAPACITY

Meter Size Inches	Maximum Allowable Indication of Initial Dial			Minimum Allowable Capacity of Register, Millions			
	Local Register or Electronic Encoder Register	Cu. Ft.	Gallons	M³	Cu. Ft.	Gallons	M³
5/8"		1	10	0.1	1	10	0.1
5/8"x3/4"		1	10	0.1	1	10	0.1
3/4"x3/4"		1	10	0.1	1	10	0.1
1"		1	10	0.1	1	10	0.1

SECTION 02645
INSTALLATION OF METERS AND RETROFITTING METERS

PART 1 GENERAL

This specification covers the installation of all meters and retrofitting meter covered by this contract.

1.1 SCOPE OF WORK

This scope of work is to install new Owner-furnished meters and retrofit selected existing meters with the appropriate transmitter. The project shall be fully completed within 12 months after notice to proceed. If conditions preclude completion of the work in this time period, the contract can be extended upon agreement of both parties. Barring this mutually acceptable extension, liquidated damages will be assessed as discussed previously. The following specifications are intended to describe the minimum acceptable service to fulfill this need.

1.2 INSTALLATION

The Installation Contractor shall be responsible for replacing existing meters with new meters or retrofitting existing newer meters, at the Town of Longmeadow's direction, with new radio frequency transmitters and encoder registers. The work is to be completed within 12 months of contract signing, or sooner, depending on installation product commencement. The Installation Contractor's responsibilities will include, but not be limited to, the following:

- A. Project Management: Creation of an installation database, based on information provided by the Town of Longmeadow, allowing the Installation Contractor to segment the database into cycles to facilitate sequencing of work over the installation period. The Installation Contractor will provide bi-monthly installation reports, with data on all completed installations, in electronic format. The Installation Contractor will provide bi-monthly management control reports, reflecting project completion status, will meet with the Town of Longmeadow on a bi-monthly basis – either in person or via a teleconference - to report and review program developments.
- B. Installation: The Installation Contractor will provide experienced installation technicians who will install new meters with transmitters or retrofit existing meters with new RF Transmitters as designated by the Town of Longmeadow. The Installation Contractor will provide an on-site supervisor who will be the

day-to-day contact for the Town of Longmeadow and its employees. The Installation Contractor will correct installation defects, free of charge, for one year following the installation date, that are in the control of the Installation Contractor, excluding areas such as vandalism, frozen meters, etc. that are logically out of the control of the Installation Contractor.

- C. Preconstruction Requirements: As soon as practical, after the execution of the contract and prior to any work being performed under this contract, a pre-construction meeting will be held between the Installation Contractor and Town of Longmeadow representative. The Installation Contractor will be notified of the time and place of the meeting. The purpose of the meeting will be to review all matters of mutual concern to insure that the installation plan of the Town of Longmeadow will be met.
- D. The Installation Contractor shall submit to the Town of Longmeadow for approval, a training and certification program for employees working under this contract. During this program, the Installation Contractor's personnel shall be trained in the technical and procedural aspects of the program as well as the professional and courteous manner in which they shall conduct themselves with regard to the Town of Longmeadow residents. The installations and meter replacements shall only be performed by qualified personnel who have adequate training.
- E. Installation Contractor's Personnel: The Installation Contractor shall provide adequate personnel to complete the work stated in the Contract Document and Specifications. Only workers who are technically competent and are of acceptable character and personality for work that involves unsupervised entry into individual residences will be hired. All potential employees will be subject to pre-employment drug and alcohol screening test. The Town of Longmeadow may want to perform a background check on all potential employees, and are free to do so at the Town of Longmeadow's expense. The Installation Contractor will provide the Town of Longmeadow with the names and any other information required by the Town of Longmeadow for these installation personnel.
- F. Field Office: The Installation Contractor shall provide facilities and staff for the local field office; equip field office as necessary to administer, advise of the office hours, and execute the work. The Installation Contractor must maintain adequate local telephone service where a representative can be reached twenty-four (24) hours a day, seven (7) days a week to receive emergency telephone calls. Any defective installations resulting in leaking settings, if deemed to be of emergency nature by the Town of Longmeadow, must be investigated and corrected by the Installation Contractor within four (4) hours of notification.

G. Meetings: Will be held as required by the Town of Longmeadow. The Town of Longmeadow will establish the dates, times and place of the meetings, and conduct the meetings. The meetings will be held once a month or more often if deemed necessary by the Town of Longmeadow. The meetings shall be attended by Town of Longmeadow and Installation Contractor personnel basis – either in person or via a teleconference -as well as any other individual pertinent to the agenda.

H. Installation Contractors Personnel and Vehicle Identification: All field personnel shall wear uniforms with the company logo, and shall have on their person displayed in conspicuous manner picture identification badges. Pictured ID shall have the Installation Contractors name, employee name, title and signature, employee's picture and employee ID number. The Installation Contractor's employees shall have all uniforms of the same type and color. The uniform shall include shirts, pants, and jackets. Hats if worn must be of like color. The Installation Contractors identification patches shall be permanently attached to sleeves and jackets. Employees without proper uniforms and identification will not be allowed to work. Employees who, for whatever reason, are no longer employed by the Installation Contractor shall be required to return to the Installation Contractor their identification material upon termination of employment.

The Installation Contractor's vehicles, including private vehicles used for the Installation Contractors work, shall have a company logo prominently displayed on both sides of the vehicle. The Installation Contractor and/or its employees will not solicit or accept any business from the homeowner. The recommendation of a particular plumber or company and/or the performance of work installation is also prohibited.

I. Customer Notification and Appointment Scheduling: The Town of Longmeadow will provide the Installation Contractor with a list that indicates customer name, address, zip code, account number, meter size and meter serial number. The Town of Longmeadow shall provide this list in an ASCII file as determined by the Installation Contractor.

The Town of Longmeadow, in order to expedite the installation project, will send a letter to all its customers introducing the project and Installation Contractor. After the introductory letter, the Installation Contractor will assume responsibility for attaining entry into residences. The Installation Contractor shall make four attempts (within a three to four week timeframe) beyond the introduction letter to schedule an installation. One written notification must be provided to all customers who do not respond to the initial letter or other notification.

Appointments shall be made in a courteous and professional, manner during reasonable hours; through telephone calls, post cards, door-to-door solicitation or by additional letters.

It is expected a large percentage of installations will result from door to door solicitation. The Installation Contractors Field Personnel shall use the following procedures for door to door contact:

- a) Attempt to contact the resident by ringing the doorbell or knocking on the door only. Do not knock on windows.
- b) If resident is present, inform them of AMR Program and attempts to complete installation. If installation cannot be accomplished due to resident inconvenience, attempt to make an appointment. At no time shall an Installation Contractor employee threaten any resident with termination of service or any other action for failure to consent to AMR installation.
- c) The Installation Contractor shall not enter a residence without the permission or presence of an adult, of age 18 or older.
- d) If resident is not present, the Installation Contractor will leave approved notice, and not leave a Notice in the mailbox.

The Installation Contractor may find many homes are not accessible during normal working hours. The Installation Contractor shall be available during evening hours and on weekends to accommodate customers' reasonable requests for appointments.

The Installation Contractor shall submit to the Town of Longmeadow written documentation describing the date, method and other pertinent information regarding four or more attempts to schedule an installation. The Installation Contractor may then inform the Town of Longmeadow that contact cannot be made, thus preventing the installation.

Once this information has been transmitted, the Town of Longmeadow will send out a final notice to the customer to encourage the customer to contact the Installation Contractor for installation, or the Town of Longmeadow will terminate service.

The Town of Longmeadow may also choose to perform the meter and transmitter installations at scattered sites, due to existing meters being frozen, leaking, broken, stopped, or otherwise inoperable. If the Town of Longmeadow installs the equipment system for such inaccessible accounts, the Installation Contractor shall receive no payment for such installation. The Town of Longmeadow will inform the Installation Contractor of customer name and address of these installations, so Installation Contractor can update the installation database and not duplicate efforts.

- J. Manufacturer Specifications : The Contractor will replace existing meters in accordance with Manufacturers instructions. The meter shall be installed in a neat and workmanlike manner by technicians who have been trained and informed of the technical and procedural requirements of the work.
- K. Customer Notification The customer will be informed that water service will be shut off to accomplish the meter change-out, and it will be for as short a time as necessary. Town of Longmeadow shall provide timely assistance where requested by the Installation Contractor in locating and operating shut-off valves and/or curb stops for each customer. Response time shall be within one half-hour.
- L. Additional Work Any additional work requested by the Town of Longmeadow will be performed on a negotiated time and material basis.
- M. Inoperative Valves If the inside valve is not capable of shutdown, Installation Contractor shall shut freeze the service. If the curb stop cannot be located or service frozen, Town of Longmeadow will assist Installation Contractor with shut down.
- N. Installation Defects It will be presumed that any leaks or defects that occur before the first fitting after the meter couplings on both sides of the meter, and are visible from the meter, and reported by the customer to either the Installation Contractor or the Town of Longmeadow within ten (10) calendar days after completion of the replacement are the result of the replacement efforts, and the Installation Contractor will repair the damage at no additional cost. This presumption will not apply to leaks or other pre-existent conditions noted by the Installation Contractor during the replacement, nor shall this presumption be construed as the sole basis upon which liability can be attributed to the Installation Contractor.
- O. Damages: During the replacement program, some breakages are likely to occur to customer service lines. Installation Contractor supervisors shall be prepared to repair any damage to customer service line at no expense to the Town of Longmeadow except the Town of Longmeadow will provide Installation Contractor with anticipated repair hardware. This mutual level of cooperation will insure minimal time a customer would be without water service and further accelerate completion of installation project.
- P. Faulty Plumbing: If, in the Installation Contractor's opinion, the condition of the customer's existing service piping is such that significant damage would result from attempting to remove and replace the existing water meter, the Installation Contractor will so inform the Town of Longmeadow, and provide

specific information on the setting to assist the Town of Longmeadow customer in correcting the problem.

If the Town of Longmeadow does not concur with the Installation Contractor's judgment, and directs the Installation Contractor to perform the meter replacement, and the customer's service piping is damaged as a result, then the Town of Longmeadow will bear any and all costs of such damage.

- Q. Customer Complaints: The Installation Contractor shall designate a representative to meet with and resolve problems related to the AMR installation project. The Installation Contractor shall investigate all customer complaints with respect to this project within 24 hours.

The Installation Contractor shall correct any installations where the Town of Longmeadow received a complaint from property owners dissatisfied with the installation, before payment is made. The decision by the Town of Longmeadow regarding the credibility of an owner's complaint shall be final. The Installation Contractor shall promptly correct any deficiencies, including but not limited to leaks that are a direct or indirect result of the installation when directed to do so by the Town of Longmeadow.

It shall be presumed that any leaks in the vicinity of the water meter reported by the customer to either the Town of Longmeadow or the Installation Contractor within ten (10) calendar days after completion of work at the customer's property are the result of the installation work, unless a preexisting condition has been noted on the work order. The Installation Contractor shall repair such leaks and correct all damages that occur during the ten (10) day period at the Installation Contractors expense.

- R. Installation Testing: The Installation Contractor shall completely test each installation to confirm operation. All tests are to be conducted before leaving the residence. The Installation Contractor shall seal the inlet and meter bottom bolt head with sealing wire and a lead seal. The equipment will be tested according to manufacturer's instructions. This performance audit timeframe must correlate with payment intervals.
- S. Meter Salvage: All meters removed and replaced shall remain the property of the Town of Longmeadow and will be returned. The Installation Contractor shall be held accountable for the return of all-old meters, and/or registers.

Removed meters and at least one copy of a fully completed installation form shall be returned to the Town of Longmeadow within one week after completing the installation of each AMR System.

The Installation Contractor shall record the final reading of the old meter and where applicable, the reading of the outside remote reading device on the installation record form. The Installation Contractor will also provide a copy of the installation form to the resident or water customer of the work and the meter readings.

The Installation Contractor shall provide the Town of Longmeadow with the following information to document the completion of the installation in an ASCII file format on a bi-monthly basis:

1. Account number, name, address, phone number
2. Old meter serial number
3. Old meter final reading
4. Old outside register reading
5. New meter initial reading
6. New meter serial number
7. Date and time of installation
8. Size
9. AMR EQUIPMENT Number (if applicable)
10. Installation note

APPENDIX C
PREVAILING WAGE RATES



DEVAL L. PATRICK
Governor
TIMOTHY F. MURRAY
Lieutenant Governor

THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
DIVISION OF OCCUPATIONAL SAFETY



JOANNE F. GOLDSTEIN
Secretary of Labor and Workforce Development
GEORGE E. NOEL
Director of Labor
HEATHER E. ROWE
Acting Commissioner of
Division of Occupational Safety

Prevailing Wage Rates

As determined by the Commissioner under the provisions of the
Massachusetts General Laws, Chapter 149, Sections 26 to 27H

Awarding Authority: Town of Longmeadow

Contract Number:

City/Town: LONGMEADOW

Description of Work: INSTALLATION OF WATER METERS AND RETROFITTING EXISTING WATER METERS

Job Location: ALL OF LONGMEADOW, MA

Classification	Effective Dates and Total Rates											
Construction												
(2 AXLE) DRIVER - EQUIPMENT	06/01/2010	\$43.830	12/01/2010	\$44.430	06/01/2011	\$45.180	12/01/2011	\$45.840	06/01/2012	\$46.490	12/01/2012	\$47.520
(3 AXLE) DRIVER - EQUIPMENT	06/01/2010	\$43.900	12/01/2010	\$44.500	06/01/2011	\$45.250	12/01/2011	\$46.560	06/01/2012	\$47.590	12/01/2012	\$48.840
(4 & 5 AXLE) DRIVER - EQUIPMENT	06/01/2010	\$44.020	12/01/2010	\$44.620	06/01/2011	\$45.370	12/01/2011	\$46.680	06/01/2012	\$47.710	12/01/2012	\$48.960
ADS/SUBMERSIBLE PILOT	08/01/2009	\$101.110	08/01/2010	\$104.640	08/01/2011	\$108.760	12/01/2011	\$112.880	06/01/2012	\$117.000	12/01/2012	\$121.120
AIR TRACK OPERATOR	06/01/2010	\$41.340	12/06/2010	\$41.840	06/06/2011	\$42.840	12/03/2012	\$43.840	06/01/2013	\$44.840	12/01/2013	\$45.840
AIR TRACK OPERATOR (HEAVY & HIGHWAY)	06/01/2010	\$40.720	12/01/2010	\$41.970	06/01/2011	\$43.220	12/01/2011	\$44.470	06/01/2012	\$45.720	12/01/2012	\$46.970
ASBESTOS WORKER (PIPES & TANKS)	12/01/2009	\$40.250	12/01/2010	\$41.500	06/01/2011	\$42.750	12/01/2011	\$44.000	06/01/2012	\$45.250	12/01/2012	\$46.500
ASPHALT RAKER	06/01/2010	\$40.840	12/06/2010	\$41.340	06/06/2011	\$42.840	12/03/2012	\$43.840	06/01/2013	\$44.840	12/01/2013	\$45.840
ASPHALT RAKER (HEAVY & HIGHWAY)	06/01/2010	\$40.220	12/01/2010	\$41.470	06/01/2011	\$42.720	12/01/2011	\$43.970	06/01/2012	\$45.220	12/01/2012	\$46.470
AUTOMATIC GRADER-EXCAVATOR (RECLAIMER)	12/01/2009	\$44.890	12/01/2010	\$46.140	06/01/2011	\$47.390	12/01/2011	\$48.640	06/01/2012	\$49.890	12/01/2012	\$51.140
BARCO-TYPE JUMPING TAMPER	06/01/2010	\$10.840	12/06/2010	\$11.340	06/06/2011	\$12.840	12/03/2012	\$13.840	06/01/2013	\$14.840	12/01/2013	\$15.840
BATCH/CEMENT PLANT - ON SITE	12/01/2009	\$44.360	12/01/2010	\$45.610	06/01/2011	\$46.860	12/01/2011	\$48.110	06/01/2012	\$49.360	12/01/2012	\$50.610
BLOCK PAVER, RAMMER / CURB SETTER	06/01/2010	\$41.340	12/06/2010	\$41.840	06/06/2011	\$42.840	12/03/2012	\$43.840	06/01/2013	\$44.840	12/01/2013	\$45.840
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY)	06/01/2010	\$40.720	12/01/2010	\$41.970	06/01/2011	\$43.220	12/01/2011	\$44.470	06/01/2012	\$45.720	12/01/2012	\$46.970
BOILER MAKER	01/01/2010	\$55.850	01/01/2011	\$56.850	01/01/2012	\$57.850	01/01/2013	\$58.850	01/01/2014	\$59.850	01/01/2015	\$60.850
APPRENTICE: BOILERMAKER - Local 29												
Ratio Step	1	2	3	4	5	6	7	8				
1:5 %	65.00	65.00	70.00	75.00	80.00	85.00	90.00	95.00				
Apprentice wages shall be no less than the following:												
Step 1\$42.66/2\$42.66/3\$44.54/4\$46.43/5\$48.31/6\$50.20/7\$52.08/8\$53.97												
BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)	03/01/2010	\$55.300	09/06/2010	\$56.600	03/07/2011	\$57.900	09/05/2011	\$59.200	03/05/2012	\$60.500	09/05/2012	\$61.800
APPRENTICE: BRICK/PLASTER/CEMENT MASON - Local 1 Springfield/Pittsfield												
Ratio Step	1	2	3	4	5	6						
1:5 %	50.00	60.00	70.00	80.00	90.00	95.00						
Apprentice wages shall be no less than the following:												
Step 1\$38.05/2\$41.50/3\$44.95/4\$48.40/5\$51.85/6\$53.58												
BULLDOZER/POWER SHOVEL/TREE SHREADER	12/01/2009	\$44.890	12/01/2010	\$46.140	06/01/2011	\$47.390	12/01/2011	\$48.640	06/01/2012	\$49.890	12/01/2012	\$51.140

This wage schedule must be posted at the work site in accordance with M.G.L. c. 149, § 27. Failure of the employer to pay "prevailing wage rates," which are the minimum wage rates listed above, on public works projects is a violation of M.G.L. c. 149, § 27. Employers not receiving such rates should report the violation to the Fair Labor Division of the Office of the Attorney General, 100 Cambridge Street, Boston, MA 02108; Tel: 617-727-3465. Contractors with questions about the wage rates or classifications included on the wage schedules have an affirmative obligation to inquire with DOS at www.mass.gov/dos/pw or at 617-626-6952.

Issue Date: 07/16/2010

Wage Request Number: 20100716-008

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DEVAL L. PATRICK
Governor
TIMOTHY P. MURRAY
Lieutenant Governor

THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
DIVISION OF OCCUPATIONAL SAFETY

Prevailing Wage Rates

As determined by the Commissioner under the provisions of the
Massachusetts General Laws, Chapter 149, Sections 26 to 27H



JOANNE F. GOLDSTEIN
Secretary of Labor and Workforce Development
GEORGE E. NOEL
Director of Labor
HEATHER E. ROWE
Acting Commissioner of
Division of Occupational Safety

Awarding Authority: Town of Longmeadow

Contract Number:

City/Town: LONGMEADOW

Description of Work: INSTALLATION OF WATER METERS AND RETROFITTING EXISTING WATER METERS

Job Location: ALL OF LONGMEADOW, MA

Classification	Effective Dates and Total Rates								
CAISSON & UNDERPINNING BOTTOM MAN	06/01/2010	\$49,250	12/01/2010	\$50,500	06/01/2011	\$51,500			
	12/01/2011	\$52,750							
CAISSON & UNDERPINNING LABORER	06/01/2010	\$48,100	12/01/2010	\$49,350	06/01/2011	\$50,350			
	12/01/2011	\$51,600							
CAISSON & UNDERPINNING TOP MAN	06/01/2010	\$48,100	12/01/2010	\$49,350	06/01/2011	\$50,350			
	12/01/2011	\$51,600							
CARBIDE CORE DRILL OPERATOR	06/01/2010	\$40,840	12/06/2010	\$41,340	06/06/2011	\$42,340			
	12/05/2011	\$42,890	06/04/2012	\$43,890	12/03/2012	\$44,840			
CARPENTER	04/05/2010	\$47,420	10/04/2010	\$48,170	04/04/2011	\$48,920			
	10/03/2011	\$49,670							
APPRENTICE: CARPENTER - Local 108 Hampden Hampshire									
Ratio	Step	1	2	3	4	5	6	7	8
**	%	50.00	55.00	60.00	70.00	80.00	85.00	90.00	95.00
Pre-6/09 Step1\$21.24/2\$22.66/3\$36.07/4\$38.91/5\$41.74/6\$43.16					** 1: 1-5/2: 6-8/3:9-11/Steps: 6 mos (600 hrs)/rates by step				
7\$44.58/8\$46.00Post-6/09:1\$20.49/2\$23.33/3\$35.55/4\$36.97/5\$39.50/6\$40.92/7\$43.46									
CEMENT MASONRY/PLASTERING	03/01/2010	\$55,440	09/06/2010	\$56,700	03/07/2011	\$57,960			
	09/05/2011	\$59,270	03/05/2012	\$60,630					
CHAIN SAW OPERATOR	06/01/2010	\$40,840	12/06/2010	\$41,340	06/06/2011	\$42,340			
	12/05/2011	\$42,890	06/04/2012	\$43,890	12/03/2012	\$44,840			
COMPRESSOR OPERATOR	12/01/2009	\$44,360							
CRANE/BACKHOE/FRONT-END LOADER OPERATOR	12/01/2009	\$44,890							
APPRENTICE: HOIST/PORT. ENG. - Local 98									
Ratio	Step	1	2	3	4				
1:6	%	60.00	70.00	80.00	90.00				
Apprentice wages shall be no less than the following: Steps 1-2 are 1000 hrs.; Steps 3-4 are 2000 hrs.									
Step 1\$33.67/2\$36.53/3\$42.25									
DELEADER (BRIDGE)	01/01/2010	\$63,410							
DEMO: ADZEMAN	06/01/2010	\$48,100	12/01/2010	\$49,350	06/01/2011	\$50,350			
	12/01/2011	\$51,600							
DEMO: BACKHOE/LOADER/HAMMER OPERATOR	06/01/2010	\$49,100	12/01/2010	\$50,350	06/01/2011	\$51,350			
	12/01/2011	\$52,600							
DEMO: BURNERS	06/01/2010	\$48,850	12/01/2010	\$50,100	06/01/2011	\$51,100			
	12/01/2011	\$52,350							
DEMO: CONCRETE CUTTER/SAWYER	06/01/2010	\$49,100	12/01/2010	\$50,350	06/01/2011	\$51,350			
	12/01/2011	\$52,600							
DEMO: JACKHAMMER OPERATOR	06/01/2010	\$48,850	12/01/2010	\$50,100	06/01/2011	\$51,100			
	12/01/2011	\$52,350							
DEMO: WRECKING LABORER	06/01/2010	\$48,100	12/01/2010	\$49,350	06/01/2011	\$50,350			
	12/01/2011	\$51,600							
DIVER	08/01/2009	\$75,090	08/01/2010	\$77,440	08/01/2011	\$80,190			

This wage schedule must be posted at the work site in accordance with M.G.L. c. 149, § 27. Failure of the employer to pay "prevailing wage rates," which are the minimum wage rates listed above, on public works projects is a violation of M.G.L. c. 149, § 27. Employees not receiving such rates should report the violation to the Fair Labor Division of the Office of the Attorney General, 100 Cambridge Street, Boston, MA 02108; Tel: 617-727-3465. Contractors with questions about the wage rates or classifications included on the wage schedules have an affirmative obligation to inquire with DOS at www.mass.gov/dos/pw or at 617-626-6952.

Issue Date: 07/16/2010

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THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
DIVISION OF OCCUPATIONAL SAFETY

Prevailing Wage Rates

As determined by the Commissioner under the provisions of the
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JOANNE F. GOLDSTEIN
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HEATHER E. ROWE
Acting Commissioner of
Division of Occupational Safety

Awarding Authority: Town of Longmeadow

Contract Number:

City/Town: LONGMEADOW

Description of Work: INSTALLATION OF WATER METERS AND RETROFITTING EXISTING WATER METERS

Job Location: ALL OF LONGMEADOW, MA

Classification	Effective Dates and Total Rates						
DIVER TENDER	08/01/2009	\$60.220	08/01/2010	\$62.570	08/01/2011	\$65.320	
DIVER TENDER (EFFLUENT)	08/01/2009	\$78.810	08/01/2010	\$82.330	08/01/2011	\$86.460	
DIVER/SLURRY (EFFLUENT)	08/01/2009	\$101.110	08/01/2010	\$104.640	08/01/2011	\$108.760	
ELECTRICIAN	07/01/2010	\$49.310	01/01/2011	\$50.060			
APPRENTICE: ELECTRICIAN - Local 7 Zone A							
Ratio	Step	1	2	3	4	5	
2:3****	%	50.00	55.00	60.00	65.00	70.00	
Apprentice wages shall be no less than the following:			Steps 1-2 are 1000 hrs; Steps 3-6 are 1500 hrs.				
Step 1		\$24.63/2526.34/3532.10/4533.82/5537.98/6539.87					
ELEVATOR CONSTRUCTOR	01/01/2010	\$60.110	01/01/2011	\$61.610	01/01/2012	\$63.110	
APPRENTICE: ELEVATOR CONSTRUCTOR - Local 41							
Ratio	Step	1	2	3	4	5	
1:1	%	50.00	55.00	65.00	70.00	80.00	
Apprentice wages shall be no less than the following:			Steps 1-2 are 6 mos.; Steps 3-5 are 1 year				
Step 1		\$37.93/2340.14/3544.58/4546.80/5551.27					
ELEVATOR CONSTRUCTOR HELPER	01/01/2010	\$46.800	01/01/2011	\$47.850	01/01/2012	\$48.900	
FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY)	06/01/2010	\$40.220	12/01/2010	\$41.470	06/01/2011	\$42.470	
						12/01/2011	\$43.720
FIELD ENG - PARTY CHIEF (BLDG, SITE, HVY CONST)	06/01/1999	\$30.230					
FIELD ENG-CHIEF OF SURVEY(BLDG, SITE, HVY CONST)	06/01/1999	\$31.230					
FIELD ENG-INST./ROD PERSON(BLDG, SITE, HVY CONST)	06/01/1999	\$27.740					
FIRE ALARM INSTALLER	07/01/2010	\$49.310	01/01/2011	\$50.060			
FIRE ALARM REPAIR / MAINTENANCE	07/01/2010	\$34.480	01/01/2011	\$35.030	06/01/2011	\$35.530	
						01/01/2012	\$36.030
FIREMAN	12/01/2009	\$44.360					
FLAGGER & SIGNALER (HEAVY & HIGHWAY)	06/01/2010	\$34.780	12/01/2010	\$34.780	06/01/2011	\$35.780	
						12/01/2011	\$35.780
FLOORCOVERER	03/01/2010	\$48.520	09/01/2010	\$49.270	03/01/2011	\$50.020	
						09/01/2011	\$51.270
APPRENTICE: FLOORCOVERER - Local 2168 Zone III							
Ratio	Step	1	2	3	4	5	
1:1	%	50.00	55.00	60.00	65.00	70.00	
Apprentice rates shall be no less than the following:			Steps are 750 hrs.				
Step 1		\$23.09/2824.41/3534.16/4535.57/5538.11/6539.53/7542.06/8543.48					
FORK LIFT	12/01/2009	\$44.580					
GENERATORS/LIGHTING PLANTS	12/01/2009	\$41.130					
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)	06/01/2009	\$45.680					

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THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
DIVISION OF OCCUPATIONAL SAFETY



JOANNE F. GOLDSTEIN
Secretary of Labor and Workforce Development
GEORGE E. NOEL
Director of Labor
HEATHER E. ROWE
Acting Commissioner of
Division of Occupational Safety

Prevailing Wage Rates

As determined by the Commissioner under the provisions of the
Massachusetts General Laws, Chapter 149, Sections 26 to 27H

Awarding Authority: Town of Longmeadow

Contract Number:

City/Town: LONGMEADOW

Description of Work: INSTALLATION OF WATER METERS AND RETROFITTING EXISTING WATER METERS

Job Location: ALL OF LONGMEADOW, MA

Classification		Effective Dates and Total Rates									
APPRENTICE: GLAZIER - Local 1333											
Ratio	Step	1	2	3	4	5	6	7	8		
1:1	%	50.00	56.30	62.50	68.80	75.00	81.30	88.00	93.80		
Apprentice wages shall be no less than the following:											
Step 1 \$30.77/2\$32.74/3\$34.73/4\$36.71/5\$38.70/6\$40.68/7\$42.66/8\$44.65											
GRADER/TRENCHING MACHINE/DERRICK						12/01/2009	\$44.890				
HVAC (DUCTWORK)						07/01/2010	\$49.840	01/01/2011	\$50.950		
HVAC (ELECTRICAL CONTROLS)						07/01/2010	\$49.310	01/01/2011	\$50.060		
HVAC (TESTING AND BALANCING - AIR)						07/01/2010	\$49.840	01/01/2011	\$50.950		
HVAC (TESTING AND BALANCING - WATER)						03/17/2010	\$54.710				
HVAC MECHANIC						03/17/2010	\$54.710				
HYDRAULIC DRILLS (HEAVY & HIGHWAY)						06/01/2010	\$40.720	12/01/2010	\$41.970	06/01/2011	\$42.970
						12/01/2011	\$44.220				
INSULATOR (PIPES & TANKS)						09/01/2009	\$51.060	09/01/2010	\$52.980		
APPRENTICE: ASBESTOS INSULATOR (Pipes & Tanks) - Local 6 Springfield											
Ratio	Step	1	2	3	4						
1:4	%	50.00	60.00	70.00	80.00						
Apprentice wages shall be no less than the following:											
Step 1 \$29.66/2\$32.99/3\$36.32/4\$39.65											
Steps are 1 year											
IRONWORKER/WELDER						03/16/2010	\$52.260				
APPRENTICE: IRONWORKER - Local 7 Springfield											
Ratio	Step	1	2	3	4	5	6				
	%	60.00	70.00	75.00	80.00	85.00	90.00				
Apprentice wages shall be no less than the following:											
Step 1 \$40.62/2\$43.28/3\$44.61/4\$45.94/5\$47.29/6\$48.60											
JACKHAMMER & PAVING BREAKER OPERATOR						06/01/2010	\$40.840	12/06/2010	\$41.340	06/06/2011	\$42.340
						12/05/2011	\$42.890	06/04/2012	\$43.890	12/03/2012	\$44.840
LABORER						06/01/2010	\$40.590	12/06/2010	\$41.090	06/06/2011	\$42.090
						12/05/2011	\$42.640	06/04/2012	\$43.640	12/03/2012	\$44.590
APPRENTICE: LABORER - Zone 3 Building & Site											
Ratio	Step	1	2	3	4						
1:5	%	60.00	70.00	80.00	90.00						
Apprentice wages shall be no less than the following:											
Step 1 \$30.71/2\$33.18/3\$35.65/4\$38.12											
LABORER (HEAVY & HIGHWAY)						06/01/2010	\$39.970	12/01/2010	\$41.220	06/01/2011	\$42.220
						12/01/2011	\$43.470				

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Issue Date: 07/16/2010

Wage Request Number: 20100716-008

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DEVAL L. PATRICK
Governor
TIMOTHY P. MURRAY
Lieutenant Governor

THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
DIVISION OF OCCUPATIONAL SAFETY

Prevailing Wage Rates

As determined by the Commissioner under the provisions of the
Massachusetts General Laws, Chapter 149, Sections 26 to 27H



JOANNE F. GOLDSTEIN
Secretary of Labor and Workforce Development
GEORGE E. NOEL
Director of Labor
HEATHER E. ROWE
Acting Commissioner of
Division of Occupational Safety

Awarding Authority: Town of Longmeadow

Contract Number:

City/Town: LONGMEADOW

Description of Work: INSTALLATION OF WATER METERS AND RETROFITING EXISTING WATER METERS

Job Location: ALL OF LONGMEADOW, MA

Classification

Effective Dates and Total Rates

APPRENTICE:		LABORER - Zone 3 Heavy & Highway					
Ratio	Step	1	2	3	4		
1:5	%	60.00	70.00	80.00	90.00		
Apprentice wages shall be no less than the following:							
Step 1 \$30.09/2332.56/3535.03/4537.50							
LABORER: CARPENTER TENDER		06/01/2010	\$40.590	12/06/2010	\$41.090	06/06/2011	\$42.090
		12/05/2011	\$42.640	06/04/2012	\$43.640	12/03/2012	\$44.590
LABORER: CEMENT FINISHER TENDER		06/01/2010	\$40.840	12/06/2010	\$41.340	06/06/2011	\$42.340
		12/05/2011	\$42.890	06/04/2012	\$43.890	12/03/2012	\$44.840
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER		06/01/2010	\$40.590	12/06/2010	\$41.090	06/06/2011	\$42.090
		12/05/2011	\$42.640	06/04/2012	\$43.640	12/03/2012	\$44.590
LABORER: MASON TENDER		06/01/2010	\$41.590	12/06/2010	\$42.090	06/06/2011	\$43.090
		12/05/2011	\$43.640	06/04/2012	\$44.640	12/03/2012	\$45.590
LABORER: MASON TENDER (HEAVY & HIGHWAY)		06/01/2010	\$40.220	12/01/2010	\$41.470	06/01/2011	\$42.470
		12/01/2011	\$43.720				
LABORER: MULTI-TRADE TENDER		06/01/2010	\$40.590	12/06/2010	\$41.090	06/06/2011	\$42.090
		12/05/2011	\$42.640	06/04/2012	\$43.640	12/03/2012	\$44.590
LABORER: TREE REMOVER		06/01/2010	\$40.590	12/06/2010	\$41.090	06/06/2011	\$42.090
		12/05/2011	\$42.640	06/04/2012	\$43.640	12/03/2012	\$44.590
This classification applies to the wholesale removal of standing trees including all associated trimming of branches and limbs, and applies to the removal of branches at locations not on or around utility lines.							
LASER BEAM OPERATOR		06/01/2010	\$40.840	12/06/2010	\$41.340	06/06/2011	\$42.340
		12/05/2011	\$42.890	06/04/2012	\$43.890	12/03/2012	\$44.840
LASER BEAM OPERATOR (HEAVY & HIGHWAY)		06/01/2010	\$40.220	12/01/2010	\$41.470	06/01/2011	\$42.470
		12/01/2011	\$43.720				
MARBLE & TILE FINISHERS		03/01/2010	\$48.380	09/06/2010	\$49.680	03/07/2011	\$50.980
		09/05/2011	\$52.330	03/05/2012	\$53.480		
APPRENTICE:		MARBLE-TILE-TERRAZZO FINISHER-Local 1 Marble/Tile (Spr/Pitt)					
Ratio	Step	1	2	3	4	5	6
1:3	%	50.00	60.00	70.00	80.00	90.00	95.00
Apprentice wages shall be no less than the following: Steps are 800 hours							
Step 1 \$34.82/2337.53/3540.24/4542.96/5545.67/6547.02							
MARBLE MASONS, TILELAYERS & TERRAZZO MECH		03/01/2010	\$55.300	09/06/2010	\$56.600	03/07/2011	\$57.900
		09/05/2011	\$59.250	03/05/2012	\$60.650		
APPRENTICE:		BRICK/PLASTER/CEMENT MASON - Local 1 Springfield/Pittsfield					
Ratio	Step	1	2	3	4	5	6
1:5	%	50.00	60.00	70.00	80.00	90.00	95.00
Apprentice wages shall be no less than the following:							
Step 1 \$38.05/2541.50/3544.95/4548.40/5551.85/6553.38							
MECH. SWEEPER OPERATOR (NON-CONSTRUCTION)		07/01/2010	\$29.590	07/01/2011	\$30.290		

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Issue Date: 07/16/2010

Wage Request Number: 20100716-008

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DEVAL L. PATRICK
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THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
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Prevailing Wage Rates

As determined by the Commissioner under the provisions of the
Massachusetts General Laws, Chapter 149, Sections 26 to 27H

Awarding Authority: Town of Longmeadow

Contract Number:

City/Town: LONGMEADOW

Description of Work: INSTALLATION OF WATER METERS AND RETROFITTING EXISTING WATER METERS

Job Location: ALL OF LONGMEADOW, MA

Classification	Effective Dates and Total Rates									
MECH. SWEEPER OPERATOR (ON CONST. SITES)	12/01/2009	\$44.890								
MECHANIC/WELDER/BOOM TRUCK	12/01/2009	\$44.360								
MILLWRIGHT (Zone 3)	04/01/2010	\$52.530								
APPRENTICE: MILLWRIGHT - Local 1121 Zone 3										
Ratio	Step	1	2	3	4	5	6	7	8	
1:5	%	50.00	55.00	60.00	65.00	70.00	75.00	80.00	85.00	
Apprentice wages shall be no less than the following:										
Step 1 \$32.97/2\$34.48/3\$37.45/4\$38.96/5\$41.94/6\$43.45/7\$44.99/8\$46.50										
MORTAR MIXER	06/01/2010	\$40.840	12/06/2010	\$41.340	06/06/2011	\$42.340	12/03/2012	\$44.840		
OILER	12/05/2011	\$42.890	06/04/2012	\$43.890						
OTHER POWER DRIVEN EQUIPMENT - CLASS VI	12/01/2009	\$38.070								
PAINTER (BRIDGES/TANKS)	01/01/2010	\$63.410								
APPRENTICE: PAINTER Local 35 - BRIDGES/TANKS										
Ratio	Step	1	2	3	4	5	6	7	8	
1:1	%	50.00	55.00	60.00	65.00	70.00	75.00	80.00	90.00	
Apprentice wages shall be no less than the following:										
Step 1 \$29.31/2\$34.43/3\$36.85/4\$39.27/5\$48.89/6\$51.31/7\$53.73/8\$58.57										
PAINTER (SPRAY OR SANDBLAST, NEW) *	01/01/2010	\$43.480								
* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used.										
APPRENTICE: PAINTER Local 35 Zone 3 - Spray/Sandblast - New										
Ratio	Step	1	2	3	4	5	6	7	8	
1:1	%	50.00	55.00	60.00	65.00	70.00	75.00	80.00	90.00	
Apprentice wages shall be no less than the following:										
Step 1 \$21.24/2\$24.18/3\$24.53/4\$25.87/5\$35.42/6\$36.76/7\$38.10/8\$40.79										
PAINTER (SPRAY OR SANDBLAST, REPAIR)	01/01/2010	\$40.800								
APPRENTICE: PAINTER Local 35 Zone 3 - Spray/Sandblast - Repair										
Ratio	Step	1	2	3	4	5	6	7	8	
1:1	%	50.00	55.00	60.00	65.00	70.00	75.00	80.00	90.00	
Apprentice wages shall be no less than the following:										
Step 1 \$19.90/2\$22.71/3\$23.92/4\$25.13/5\$33.54/6\$34.75/7\$35.96/8\$38.38										
PAINTER (TRAFFIC MARKINGS)	06/01/2010	\$39.970	12/01/2010	\$41.220	06/01/2011	\$42.220				
PAINTER / TAPER (BRUSH, NEW) *	12/01/2011	\$43.470								
PAINTER / TAPER (BRUSH, NEW) *	01/01/2010	\$42.080								
* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used.										

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Issue Date: 07/16/2010

Wage Request Number: 20100716-008

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DEVAL L. PATRICK
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THE COMMONWEALTH OF MASSACHUSETTS
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Prevailing Wage Rates

As determined by the Commissioner under the provisions of the
Massachusetts General Laws, Chapter 149, Sections 26 to 27H

Awarding Authority: Town of Longmeadow

Contract Number:

City/Town: LONGMEADOW

Description of Work: INSTALLATION OF WATER METERS AND RETROFITTING EXISTING WATER METERS

Job Location: ALL OF LONGMEADOW, MA

Classification		Effective Dates and Total Rates									
APPRENTICE: PAINTER - Local 35 Zone 3 - BRUSH NEW											
Ratio	Step	1	2	3	4	5	6	7	8		
1:1	%	50.00	55.00	60.00	65.00	70.00	75.00	80.00	90.00		
Apprentice wages shall be no less than the following:						Steps are 750 hrs.					
Step 1 \$20.54/2\$22.69/3\$24.05/4\$25.40/5\$33.96/6\$35.31/7\$36.66/8\$39.53											
PAINTER / TAPER (BRUSH, REPAINT) 01/01/2010 \$39,400											
APPRENTICE: PAINTER Local 35 Zone 3 - BRUSH REPAINT											
Ratio	Step	1	2	3	4	5	6	7	8		
1:1	%	50.00	55.00	60.00	65.00	70.00	75.00	80.00	90.00		
Apprentice wages shall be no less than the following:						Steps are 750 hrs.					
Step 1 \$19.20/2\$21.22/3\$22.44/4\$23.66/5\$32.08/6\$33.30/7\$34.52/8\$37.12											
PANEL & PICKUP TRUCKS DRIVER											
					06/01/2010	\$43.660	12/01/2010	\$44.260	06/01/2011	\$45.010	
					12/01/2011	\$45.670	06/01/2012	\$46.320	12/01/2012	\$47.350	
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK)											
					04/05/2010	\$56.190	08/01/2010	\$57.360	10/04/2010	\$57.740	
					04/04/2011	\$58.120	08/01/2011	\$59.490			
PILE DRIVER											
					04/05/2010	\$56.190	08/01/2010	\$57.360	10/04/2010	\$57.740	
					04/04/2011	\$58.120	08/01/2011	\$59.490			
APPRENTICE: PILE DRIVER - Local 56 Zone 3											
Ratio	Step	1	2	3	4	5	6	7	8		
1:3	%	60.00	65.00	70.00	75.00	80.00	85.00	90.00	95.00		
Apprentice wages shall be no less than the following:											
Step 1 \$45.35/2\$47.21/3\$49.07/4\$50.93/5\$52.79/6\$54.64/7\$56.50/8\$58.36											
PIPELAYER											
					06/01/2010	\$40.840	12/06/2010	\$41.340	06/06/2011	\$42.340	
					12/05/2011	\$42.890	06/04/2012	\$43.890	12/03/2012	\$44.840	
PIPELAYER (HEAVY & HIGHWAY)											
					06/01/2010	\$40.220	12/01/2010	\$41.470	06/01/2011	\$42.470	
					12/01/2011	\$43.720					
PLUMBER & PIPEFITTER											
APPRENTICE: PLUMBER/PIPEFITTER - Local 104											
Ratio	Step	1	2	3	4	5					
1:5	%	45.00	50.00	60.00	70.00	80.00					
Apprentice wages shall be no less than the following:						Steps are 2000 hrs.					
Step 1 \$30.95/2\$32.66/3\$36.07/4\$39.48/5\$47.89											
PNEUMATIC CONTROLS (TEMP.)											
					03/17/2010	\$54.710					
PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY)											
					06/01/2010	\$40.220	12/01/2010	\$41.470	06/01/2011	\$42.470	
					12/01/2011	\$43.720					
POWDERMAN & BLASTER											
					06/01/2010	\$41.590	12/06/2010	\$42.090	06/06/2011	\$43.090	
					12/05/2011	\$43.640	06/04/2012	\$44.640	12/03/2012	\$45.590	
POWDERMAN & BLASTER (HEAVY & HIGHWAY)											
					06/01/2010	\$40.970	12/01/2010	\$42.220	06/01/2011	\$43.220	
					12/01/2011	\$44.470					

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Issue Date: 07/16/2010

Wage Request Number: 20100716-008

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THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
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Prevailing Wage Rates

As determined by the Commissioner under the provisions of the
Massachusetts General Laws, Chapter 149, Sections 26 to 27H

Awarding Authority: Town of Longmeadow

Contract Number:

City/Town: LONGMEADOW

Description of Work: INSTALLATION OF WATER METERS AND RETROFITING EXISTING WATER METERS

Job Location: ALL OF LONGMEADOW, MA

Classification	Effective Dates and Total Rates										
PUMP OPERATOR (CONCRETE)	12/01/2009	\$44.890									
PUMP OPERATOR (DEWATERING, OTHER)	12/01/2009	\$44.360									
READY-MIX CONCRETE DRIVER	05/01/2008	\$30.870									
RESIDENTIAL WOOD FRAME CARPENTER **	04/01/2009	\$35.620									
** The Residential Wood Frame Carpenter classification applies only to the construction of new, wood frame residences that do not exceed four stories including the basement.											
As of 9/1/09 Carpentry work on wood-frame residential WEATHERIZATION projects shall be paid the RESIDENTIAL WOOD FRAME CARPENTER rate.											
APPRENTICE: CARPENTER (Residential Wood Frame) - Local 108											
Ratio	Step	1	2	3	4	5	6	7	8		
**	%	50.00	60.00	70.00	75.00	80.00	80.00	90.00	90.00		
Apprentice Wages Shall be no less than the following: ** 1: 1-5, 2: 6-8, 3: 9-11											
Step 1 \$17.02/2\$19.07/2\$25.06/4\$26.09/5\$27.11/6\$27.11/7\$29.17/8\$29.17											
RIDE-ON MOTORIZED BUGGY OPERATOR	06/01/2010	\$40.840	12/06/2010	\$41.340	06/06/2011	\$42.340	06/04/2012	\$43.890	12/03/2012	\$44.840	
ROLLER OPERATOR	12/01/2009	\$43.750									
ROOFER (Coal tar pitch)	07/01/2009	\$44.710									
ROOFER (Inc. Roofer Waterproofing & Roofer Damproofg)	07/01/2009	\$43.710									
APPRENTICE: ROOFER - Local 248											
Ratio	Step	1	2	3	4	5	6	7	8		
1:3	%	60.00	65.00	70.00	75.00	80.00	85.00	90.00	95.00		
Apprentice wages shall be no less than the following: Steps are 750 hrs. Roofer (Tear Off) 1:1; Same as above											
Step 1 \$23.11/2\$34.91/3\$36.20/4\$37.50/5\$38.79/6\$40.09/7\$41.38/8\$42.68/9\$43.97											
SCRAPER	12/01/2009	\$44.360									
SELF-POWERED ROLLERS AND COMPACTORS (TAMPERS)	12/01/2009	\$43.750									
SELF-PROPELLED POWER BROOM	12/01/2009	\$41.130									
SHEETMETAL WORKER	07/01/2010	\$49.840	01/01/2011	\$50.950							
APPRENTICE: SHEET METAL WORKER - Local 63											
Ratio	Step	1	2	3	4	5	6	7	8	9	10
1:3	%	45.00	50.00	55.00	60.00	65.00	70.00	75.00	80.00	85.00	90.00
Apprentice wages shall be no less than the following Steps: 1\$18.79/2\$20.52/3\$28.29/4\$30.03/5\$31.75/6\$33.49/7\$35.22/8\$41.89/9\$43.63/10\$45.36											
SIGN ERECTOR	06/01/2009	\$37.780									
APPRENTICE: SIGN ERECTOR - Local 35 Zone 3											
Ratio	Step	1	2	3	4	5	6	7	8	9	
1:1	%	50.00	55.00	60.00	65.00	70.00	75.00	80.00	85.00	90.00	
Steps are 4 mos.											
SLATE / TILE / PRECAST CONCRETE ROOFER	07/01/2009	\$44.710									

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Wage Request Number: 20100716-008

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Prevailing Wage Rates

As determined by the Commissioner under the provisions of the
Massachusetts General Laws, Chapter 149, Sections 26 to 27H

Awarding Authority: Town of Longmeadow

Contract Number:

City/Town: LONGMEADOW

Description of Work: INSTALLATION OF WATER METERS AND RETROFITING EXISTING WATER METERS

Job Location: ALL OF LONGMEADOW, MA

Classification	Effective Dates and Total Rates										
SPECIALIZED EARTH MOVING EQUIP < 35 TONS	06/01/2010	\$44.120	12/01/2010	\$44.720	06/01/2011	\$45.470					
	12/01/2011	\$46.130	06/01/2012	\$46.780	12/01/2012	\$47.810					
SPECIALIZED EARTH MOVING EQUIP > 35 TONS	06/01/2010	\$44.410	12/01/2010	\$45.010	06/01/2011	\$45.760					
	12/01/2011	\$46.420	06/01/2012	\$47.070	12/01/2012	\$48.100					
SPRINKLER FITTER	01/01/2010	\$56.700									
APPRENTICE: SPRINKLER FITTER - Local 676											
Ratio	Step	1	2	3	4	5	6	7	8	9	10
1:1	%	40.00	45.00	50.00	55.00	60.00	65.00	70.00	75.00	80.00	85.00
Apprentice wages shall be no less than the following Steps:											
1\$32.00/2\$33.98/3\$35.95/4\$37.93/5\$39.90/6\$41.88/7\$43.85/8\$45.83/9\$47.80/10\$49.78											
TELECOMMUNICATION TECHNICIAN	07/01/2010	\$34.480	01/01/2011	\$35.030	06/01/2011	\$35.530					
	01/01/2012	\$36.030									
APPRENTICE: TELECOMMUNICATION TECHNICIAN - Local 7 Zone A											
Ratio	Step	1	2	3	4	5	6				
1:1	%	50.00	55.00	60.00	65.00	70.00	75.00				
Apprentice wages shall be no less than the following:											
Step 1\$23.51/2\$24.61/3\$25.71/4\$26.80/5\$27.90/6\$29.00											
TERRAZZO FINISHERS	03/01/2010	\$48.380	09/06/2010	\$49.680	03/07/2011	\$50.980					
	09/05/2011	\$52.330	03/05/2012	\$53.480							
APPRENTICE: MARBLE-TILE-TERRAZZO FINISHER-Local 1 Marble/Tile (Spr/Pitt)											
Ratio	Step	1	2	3	4	5	6				
1:3	%	50.00	60.00	70.00	80.00	90.00	95.00				
Apprentice wages shall be no less than the following:											
Step 1\$34.82/2\$37.53/3\$40.24/4\$42.96/5\$45.67/6\$47.02											
TEST BORING DRILLER	06/01/2010	\$49.500	12/01/2010	\$50.750	06/01/2011	\$51.750					
	12/01/2011	\$53.000									
TEST BORING DRILLER HELPER	06/01/2010	\$48.220	12/01/2010	\$49.470	06/01/2011	\$50.470					
	12/01/2011	\$51.720									
TEST BORING LABORER	06/01/2010	\$48.100	12/01/2010	\$49.350	06/01/2011	\$50.350					
	12/01/2011	\$51.600									
TRACTORS	12/01/2009	\$43.750									
TRAILERS FOR EARTH MOVING EQUIPMENT	06/01/2010	\$44.700	12/01/2010	\$45.300	06/01/2011	\$46.050					
	12/01/2011	\$46.710	06/01/2012	\$47.360	12/01/2012	\$48.390					
TUNNEL WORK - COMPRESSED AIR	06/01/2010	\$60.680	12/01/2010	\$61.930	06/01/2011	\$63.180					
	12/01/2011	\$64.430									
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE)	06/01/2010	\$62.680	12/01/2010	\$63.930	06/01/2011	\$65.180					
	12/01/2011	\$66.430									
TUNNEL WORK - FREE AIR	06/01/2010	\$52.750	12/01/2010	\$54.000	06/01/2011	\$55.250					
	12/01/2011	\$56.500									

This wage schedule must be posted at the work site in accordance with M.G.L. c. 149, § 27. Failure of the employer to pay "prevailing wage rates," which are the minimum wage rates listed above, on public works projects is a violation of M.G.L. c. 149, § 27. Employees not receiving such rates should report the violation to the Fair Labor Division of the Office of the Attorney General, 100 Cambridge Street, Boston, MA 02108; Tel: 617-727-3465. Contractors with questions about the wage rates or classifications included on the wage schedules have an affirmative obligation to inquire with DOS at www.mass.gov/dos/pw or at 617-626-6952.

Issue Date: 07/16/2010

Wage Request Number: 20100716-008

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DEVAL L. PATRICK
Governor
TIMOTHY P. MURRAY
Lieutenant Governor

THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
DIVISION OF OCCUPATIONAL SAFETY



JOANNE F. GOLDSTEIN
Secretary of Labor and Workforce Development
GEORGE E. NOEL
Director of Labor
HEATHER E. ROWE
Acting Commissioner of
Division of Occupational Safety

Prevailing Wage Rates

As determined by the Commissioner under the provisions of the
Massachusetts General Laws, Chapter 149, Sections 26 to 27H

Awarding Authority: Town of Longmeadow

Contract Number:

City/Town: LONGMEADOW

Description of Work: INSTALLATION OF WATER METERS AND RETROFITTING EXISTING WATER METERS

Job Location: ALL OF LONGMEADOW, MA

Classification	Effective Dates and Total Rates					
TUNNEL WORK - FREE AIR (HAZ. WASTE)	06/01/2010	\$54.750	12/01/2010	\$56.000	06/01/2011	\$57.250
	12/01/2011	\$58.500				
VAC-HAUL	06/01/2010	\$44.120	12/01/2010	\$44.720	06/01/2011	\$45.470
	12/01/2011	\$46.130	06/01/2012	\$46.780	12/01/2012	\$47.810
WAGON DRILL OPERATOR	06/01/2010	\$40.840	12/06/2010	\$41.340	06/06/2011	\$42.340
	12/05/2011	\$42.890	06/04/2012	\$43.890	12/03/2012	\$44.840
WAGON DRILL OPERATOR (HEAVY & HIGHWAY)	06/01/2010	\$40.220	12/01/2010	\$41.470	06/01/2011	\$42.470
	12/01/2011	\$43.720				
WATER METER INSTALLER	03/17/2010	\$54.710				

Additional Apprentice Information:

Minimum wage rates for apprentices employed on public works projects are listed above as a percentage of the pre-determined hourly wage rate established by the Commissioner under the provisions of the M.G.L. c. 149, ss. 26-27D. Apprentice ratios are established by the Division of Apprenticeship Training pursuant to M.G.L. c. 23, ss. 11E-11L.

All apprentices must be registered with the Division of Apprenticeship Training in accordance with M.G.L. c. 23, Section 11.

All steps are six months (1000 hours) unless otherwise specified.

- * Ratios are expressed in allowable number of apprentices to journeymen or fraction thereof.
- ** Multiple ratios are listed in the comment field.
- *** The job site ratio of 2 apprentices (APP) for every 3 journeymen (JM) is allowed as follows:
1 JM: 1 APP; 2-3 JM: 2 APP; 4-6 JM: 4 APP; 7-9 JM: 6 APP; 10-12 JM: 8 APP; 13-15 JM: 10 APP; etc.
- **** The job site ratio of 2 apprentices (APP) for every 3 journeymen (JM) is allowed as follows:
1-2 JM: 1 APP; 3-4 JM: 2 APP; 5 JM: 3 APP; 6-7 JM: 4 APP; 8 JM: 5 APP; etc.

This wage schedule must be posted at the work site in accordance with M.G.L. c. 149, § 27. Failure of the employer to pay "prevailing wage rates," which are the minimum wage rates listed above, on public works projects is a violation of M.G.L. c. 149, § 27. Employees not receiving such rates should report the violation to the Fair Labor Division of the Office of the Attorney General, 100 Cambridge Street, Boston, MA 02108; Tel: 617-727-3465. Contractors with questions about the wage rates or classifications included on the wage schedules have an affirmative obligation to inquire with DOS at www.mass.gov/dos/pw or at 617-626-6952.

Issue Date: 07/16/2010

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BID SUBMISSION FORMS
WATER METER INSTALLATION AND RETROFIT PROJECT
TOWN OF LONGMEADOW, MASSACHUSETTS

BIDDERS MUST COMPLETE THIS FORM IN ITS ENTIRETY. PLEASE FILL IN ALL BLANK SPACES. FOLLOW DIRECTIONS PER SECTION II: 'INSTRUCTIONS TO PROPOSERS'!

COMPANY NAME: _____

Item #	Description	Estimated Quantity	Unit Item Price	Total Item Price \$
1.1	Installation of new Owner-furnished 5/8-inch meter with transmitter	2050		
1.2	Retrofit of existing 5/8-inch meter with owner furnished transmitter	1268		
1.3	Installation of new Owner-furnished 3/4-inch meter with transmitter	979		
1.4	Retrofit of existing 3/4-inch meter with owner furnished transmitter	591		
1.5	Installation of new Owner-furnished 1-inch meter with transmitter	279		
1.6	Retrofit of existing 1-inch meter with owner furnished transmitter	321		
1.7	Installation of new Owner-furnished 1 1/2-inch meter with transmitter	48		
1.8	Retrofit of existing 1 ½ -inch meter with owner furnished transmitter	29		

1.9	Installation of new Owner-furnished 2-inch meter with transmitter	20		
1.10	Retrofit of existing 2 -inch meter with owner furnished transmitter	11		
1.11	Installation of new Owner-furnished 2-inch compound meter with transmitter	4		
1.12	Retrofit of existing 2 -inch compound meter with owner furnished transmitter	2		
1.13	Installation of new Owner-furnished 3-inch meter with transmitter	3		
1.14	Installation of new Owner-furnished 3-inch compound meter with transmitter	1		
1.15	Retrofit of existing 3-inch compound meter with owner furnished transmitter	4		
1.16	Installation of new Owner-furnished 4-inch meter with transmitter	2		
1.17	Retrofit of existing 4 -inch meter with owner furnished transmitter	2		
1.18	Installation of new Owner-furnished 4-inch compound meter with transmitter	2		
	<i>Total Bid Price</i>		\$	

TOTAL BID PRICE IN WORDS:

As described in the IFB, the Total Bid Price is to include installing new meters and transmitters, and retrofitting select existing meters with transmitters.

**BID SUBMISSION FORMS
 WATER METER INSTALLATION AND RETROFIT PROJECT
 TOWN OF LONGMEADOW, MASSACHUSETTS**

Name of Proposer:
Address:
Town, State / Zip:
Telephone / Fax:
Signed by:
Signature:
Federal ID/Social Security:
Print Name and Title:
Date:

ADDENDA

The bidder acknowledges receipt of the following addenda:

_____, _____, _____, _____, _____.

NON-COLLUSION AND TAX COMPLIANCE FORM

CERTIFICATE OF NON-COLLUSION

The undersigned certified under penalties of perjury that this proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club or other organization, entity or group of individuals.

Signature of individual submitting proposal

Name of business/organization

Date

BID SUBMISSION FORMS
WATER METER INSTALLATION AND RETROFIT PROJECT
TOWN OF LONGMEADOW, MASSACHUSETTS

TAX COMPLIANCE CERTIFICATION

Pursuant to M.G.L. c.62C, §49A,I certify under the penalties of perjury that, to the best of my knowledge and belief, I am in compliance with all laws of the Commonwealth relating to taxes reporting of employees and contractor, and withholding and remitting child support.

Signature of person submitting proposal _____

Name of business _____

**VOTE OF CORPORATION AUTHORIZING EXECUTION OF CONTRACT
(CORPORATIONS ONLY)**

At the meeting of the Board of Directors of _____
duly called and held on _____ at which a quorum was present and acting
throughout, the following vote was duly adopted.

VOTED: That _____ of the corporation, be and hereby is authorized
to sign the contract and deliver in the name and on behalf of the corporation a contract with:
The Town of Longmeadow, Massachusetts
for supplying _____ () _____, and also to seal and
executive as bonds above surety company bonds to secure the performance of said contract
and payment for labor and materials, all in such form and on such terms and conditions as he,
by the execution thereof, shall deem proper.

A true copy;

ATTEST: If the vendor accepts this contract and then fails to supply the commodity as
ordered by the Town of Longmeadow, and if the Town decides to legally pursue, this non-
supply, then the vendor agrees to the jurisdiction of 'the appropriate court in the state of
Massachusetts.

(Affix Corporate seal)

Clerk of the Corporation _____

BID SUBMISSION FORMS
WATER METER INSTALLATION AND RETROFIT PROJECT
TOWN OF LONGMEADOW, MASSACHUSETTS

QUESTIONNAIRE:

The bidder shall provide answers to the following questions with their bid. The Town reserves the right to declare a bid as non-responsive should these questions not be answered.

1. Submit a list of all meter and transmitter installation projects similar in size and scope to Longmeadow, for which you provided goods and installation services in the past five years. Include the utility Name and Address, contact name, title and phone number. Attach additional sheets if needed.

2. Has your company, or any subcontractor company ever failed to complete any project, ever been removed from any project, ever filed for bankruptcy (financial information may be requested), had litigation filed against it in the period indicated in the IFB, or ever been found guilty or been investigated for any violations of municipal procurement practices? If so, please describe the circumstances in full. Unsatisfactory circumstances may be grounds for bid rejection based on the evaluation of the Town.

YES _____ or NO _____

If Yes, explain the circumstances: _____

3. Please name the individual who will be the authorized representative for receiving notices and for day-to-day project administration, and the Project Manager to be assigned this project. Provide contact information for these individuals.
