

## INVITATION FOR BIDS (IFB17-11)

Sealed Bids in triplicate to furnish, deliver and install Cisco Unified Communications Deployment for the Taunton Municipal Lighting Plant will be received by the Central Purchasing Office, Taunton Municipal Lighting Plant, not later than 2:30 PM, June 8, 2017, at which time they will be publicly opened and read. Delivery of the bid is the sole responsibility of the bidder.

Copies of the Bid Proposal Package may be obtained at the Central Purchasing Office of the Taunton Municipal Lighting Plant on/after May 22, 2017, at the above location. A Pre-Bid conference is scheduled for June 1, 2017 at 10AM in at our office 55 Weir Street, Taunton, MA.

The Taunton Municipal Lighting Plant Commission, as the Awarding Authority, reserves the right to reject any and all bids, to waive informalities and minor irregularities in bids received and also to accept any bid in total or in part if it is in the best interest of the Taunton Municipal Lighting Plant to do so.

### MUNICIPAL LIGHT COMMISSION OF THE CITY OF TAUNTON

Mark E. Blackwell, Sr., Chairman  
Joseph M. Martin, Secretary  
Peter H. Corr, Commissioner

Kenneth Goulart, General Manager

Doreen Graca, Administrative Assistant  
Purchasing and Materials Management

INVITATION FOR BIDS

FURNISH, DELIVER AND INSTALL  
CISCO UNIFIED COMMUNICATION DEPLOYMENT

FOR THE

TAUNTON MUNICIPAL LIGHTING PLANT

55 WEIR STREET, TAUNTON, MASSACHUSETTS, 02780

KENNETH GOULART, GENERAL MANAGER

(IFB17-11)

**TABLE OF CONTENTS FOR PROJECT MANUAL IFB17-11**

**Contract Documents dated April 28, 2017:**

	<b><u>Page Reference:</u></b>
Invitation for Bids (IFB)	1
Table of Contents and Instructions to Bidders	2-5
General Terms and Conditions	6-11
Supplementary Conditions	12-13
Technical Specifications	14-34
Form of Bid	35-59
Wage Rates	60-90

## INSTRUCTIONS TO BIDDERS

1. Bids shall be sealed and plainly marked with the IFB Number on the outer envelope and filed with the Office of the Commission, Taunton Municipal Lighting Plant, 55 Weir Street, P O Box 870, Taunton, MA 02780-0870 there to be publicly opened and read at the time specified on the IFB page enclosed.
2. All Bids shall be received in triplicate and must be typewritten or written in ink. The person signing the Bid must initial any change or strikeout. Bids shall be deposited at the designated location prior to the time and date for receipt of Bids indicated in the Invitation for Bid, or any extension thereof made by Addendum.
3. The Bidder shall assume full responsibility for timely delivery at the location designated for receipt of Bids. Bids received after the time and date for receipt of Bids will be returned unopened. All Bid Proposals received are non-returnable and shall be retained by the TMLP and become the property of the TMLP as a public record.
4. Oral, telephonic or telegraphic Bids are invalid and will not receive consideration. Bids signed by an agent must be accompanied by written proof of the right of the person signing or other evidence of delegated authority to sign. TMLP is not responsible for any costs incurred by the Bidders in the preparation of their Bid Proposals.
5. Bidders shall, in their Bid Proposals, clearly identify their legal form (corporation, partnership, etc.) and principals with official title, office, and address. If incorporated, the State of incorporation must be given.
6. Bidders must provide the name, title, address, telephone number and facsimile number (if available) of a "contact person" possessing sufficient technical and/or operating knowledge of the item(s) being Bid to whom technical questions or requests for clarification may be addressed.
7. Based upon direct experience with the equipment and/or work scope contained in this IFB, the Bidder shall provide a qualification and experience summary statement in the Bid Proposal and furnish the name, title, address and phone number of three (3) business references.
8. Bidders shall provide written certification that equipment offered meet applicable manufacturer's standards. Equipment that does not, in the opinion of the Commission, meet specified requirements will not be accepted. All required certifications must be made a part of the Bid Package. Vendors shall provide a written warrantee statement to include conditions and time.
9. Prices shall be indicated on the Form of Bid provided and shall be the price delivered F.O.B. Taunton, Massachusetts, 02780-0870, as specified. Bidders shall provide pricing information for all items as shown on the pricing form. In connection with Article 8 of

the Terms and Conditions, page 8 of this IFB, your response should include all data that validates that your company is in fact an awarded vendor under the MSC Program, including contract numbers, effective dates and pricing structures (discounts) established.

10. Bidders are required to complete the Form of Bid Proposal in its entirety. Failure to provide any requested information needed to conduct a thorough and proper evaluation of the bid, either technically or commercially, may preclude the Bidder from further consideration at the option of the TMLP. Bidders shall provide detailed information with their bids to demonstrate to the TMLP that all requirements of this IFB have been met. Failure to provide any requested information needed to conduct a thorough and proper evaluation of the bid, either technically or commercially, may preclude the bidder from further consideration at the option of the TMLP.
11. Bids shall be valid for one hundred twenty (120) days. The successful bidder and any of its sub-contractors employed on this project shall be subject to minimum wage rates as determined by the Commissioner, Massachusetts Department of Labor and Industries (DLI), under the provisions of Massachusetts General Law, Chapter 149, Sections 26 to 27D, inclusive as amended. These rates apply to the installation portion of this project.
12. Except as indicated, if or whenever a particular manufacturer's name, part number, or style designation is used, the intent is not to be restrictive, but solely to indicate the type and quality of merchandise required. Bidders are required to identify by name the manufacturer of the product(s) being offered and provide a complete set of specification sheets (including applicable part number information) with the bid in order to be considered. TMLP reserves the right to be the final determinant in evaluating the merits of competing products.
13. Bidders must provide Material Safety Data Sheets (MSDS) with their completed bid form for evaluation for any item bid for which an MSDS exists.
14. Sample certificate(s) of insurance typically maintained in force by the Bidder shall be submitted with the bid proposal for evaluation. Coverage should include, but is not limited to: Comprehensive or Commercial General Liability, Broad Form CGL Endorsement, Products/Completed Operations, Independent Contractors, Products Liability (with Vendor's Endorsement favoring Buyer), and Contractual Liability.
15. Exceptions may be taken to any portion, section, provision, word, sentence or paragraph of This IFB. However, any such exceptions to this IFB must be noted on the Form of Bid provided. Additionally, the Bidder must provide a written basis (and supporting documentation as appropriate) for any deviation from the Technical Specifications detailing why the deviation should be considered acceptable. Failure to provide such written basis and supporting documentation with the bid, shall constitute an incompleteness and/or irregularity in the bid and may result in rejection of the entire bid.
16. Awarding Authority is the Municipal Light Commission of the City of Taunton. In awarding, the Commission shall have the right to waive informalities and minor

irregularities in any bid received. The Office of the Commission, Taunton Municipal Lighting Plant, reserves the right to reject any and all bids, including bids which are in any way incomplete or irregular, and also to accept any bid in total or in part if it is deemed to be in the best interest of the Taunton Municipal Lighting Plant to do so.

## GENERAL TERMS AND CONDITIONS

### ARTICLE 1 – AGREEMENT FORM

The Agreement Form, Form of Agreement, Agreement or Contract between the Taunton Municipal Lighting Plant (TMLP), hereinafter referred to as Owner or Purchaser and the Bidder, hereinafter referred to as Seller, Contractor or Consultant, shall be a TMLP Purchase Order that incorporates by reference the Contract Documents prepared for IFB17-11, the Seller's signed bid proposal as submitted (if no exceptions are taken), the Awarding Authority's Notice of Award with conditions, if provided, TMLP's Notice to Proceed if provided, the Seller's signed bid proposal with only those exceptions specifically accepted by TMLP included with the Order, and those modifications mutually agreed to and included in the Purchase Order as issued. Taunton Municipal Lighting Plant's General Terms and Conditions of Purchase, Form Number (070196), contained on the reverse side of TMLP's Purchase Order, shall only be in effect to the extent that they are not in conflict with the Agreement Form as constructed in this ARTICLE 1. In case of such conflict or other conflict with pre-printed terms of either party to the Agreement, the Agreement Form shall govern the contract. No Agreement shall be binding unless it is in writing and signed by the Owner.

### ARTICLE 2 - ENTIRE AGREEMENT

This Agreement shall constitute the entire understanding between the Owner and the Seller, and no modifications, rescission, waiver or termination of this Agreement or any of its terms and conditions, shall be binding on the Owner unless agreed to in writing by the Owner. By acknowledging receipt of this Agreement or by beginning to perform, the work or shipping the goods, the Seller agrees to all the terms and conditions of this Agreement. Any additional or different terms proposed by the Seller are hereby objected to and rejected by the Owner.

### ARTICLE 3 - PERFORMANCE

Time is of the essence of this Agreement. If the Seller shall fail in any respect to prosecute the work with promptness and diligence, the Owner may cancel this Agreement in part or in its entirety without liability for the cancelled part(s).

### ARTICLE 4 - WARRANTY

The Seller warrants to the Owner that the article(s) provided and/or work performed under this Agreement shall be fit for the purpose intended in accordance with the Owner's requirements, shall be new and free from defects in material, workmanship (and title if applicable) and shall meet all specifications and instructions contained in TMLP's Technical Specification. If the articles, products and/or services purchased do not meet the warranty above, the Owner, after determining a defect or non-conformance, will notify the Seller in writing within ninety (90) days after discovery of non-compliance. At the sole discretion of the Owner, the Seller shall replace, repair or make good, without cost to the Owner any defects or non-conformance arising within the agreed upon warranty time period. Articles and products repaired or replaced and/or services

re-performed by the Seller under the aforesaid warranty, shall carry warranties on the same terms and conditions as set forth above from the date of the Owner's acceptance of said repair, replacement, or re-performance. The Seller shall extend all warranties it receives from its vendors to the Owner and the Owner's customers. This warranty is in addition to all warranties contained under the law.

#### ARTICLE 5 - PATENTS, TRADEMARKS, COPYRIGHTS

It is mutually agreed and understood that this Agreement includes all royalties and costs arising from patents, trademarks and copyrights in any way involved with the work. If the Seller, or any of its subvendors or subcontractors, are required or desires to use any design, device, material or process covered by letters, patent, trademark, or copyright, the Seller shall indemnify and hold harmless the Owner from any and all claims for infringement by reason of use of any such patented design, device, material or process to be performed under this Agreement and shall further indemnify the Owner for any costs, expenses and damage which the Owner incurs or may be obligated to pay by reason of such infringement at any time during the prosecution or after the completion of the work. The Owner will give to the Seller notification of the source of any such suit or proceeding and shall furnish the Seller (at the Seller's expense) all needed information, authority and assistance to enable the Seller to defend the same. If any material, equipment or work is in any such suit or proceeding held to constitute infringement or its use is enjoined, the Seller, within a reasonable time, shall either secure for the Owner, at the Seller's own expense, the right to continue using said material, equipment or work by suspension of the injunction, by procuring for the Owner a license, or otherwise, or shall at the Seller's own expense and as the Owner may elect, replace such material, equipment or work with non-infringing material, equipment or work, or modify it so that it becomes non-infringing, or remove such infringing material, equipment or work and refund the sums paid theretofore by the Owner, all without injury or damage to any other property of the Owner.

#### ARTICLE 6 - INSPECTION AND EXPEDITING

All materials, equipment and/or work to be supplied under this Agreement are subject to inspection and expediting by the Owner or its representative. The Seller shall allow the Owner or its representative free access to the Seller's work and provide free access to the work of the Seller's subvendors or subcontractors.

#### ARTICLE 7 - APPLICABLE LAW AND COMPLIANCE WITH LAW

The rights and obligations arising from this Agreement shall be governed by the laws of the Commonwealth of Massachusetts. Any provision required by law to be included herein shall be deemed included as a part of this Agreement whether or not specifically referenced. The Seller shall comply with all applicable federal, state and local laws, rules and regulations. The Seller also agrees to indemnify and hold the Owner harmless from any and all damages and liabilities assessed against the Owner as a result of the Seller's noncompliance therewith.

## ARTICLE 8 - PRICE GUARANTEE

The Seller warrants that prices offered are as low as any net price currently given any other municipal customer in any jurisdiction, regional or national, for items of like kind, class or quality.

## ARTICLE 9 - TAXES

The Owner, under Exemption No. E-046-001-320, is an organization exempt from, the payment of Massachusetts state and local taxes on tangible property and services and will not reimburse the Seller for such taxes incurred by the Seller associated with this Agreement.

## ARTICLE 10 - RISK OF LOSS

Risk of loss and/or liability for damages associated with the goods specified in this Agreement shall remain with the Seller until such goods are delivered and accepted by the owner at the delivery point designated in this Agreement.

## ARTICLE 11 - IDENTIFICATION

The Seller shall properly identify each shipment, by Purchase Order or Contract number, commodity description and packing list. All items, packages, etc. will have clearly identifiable external markings or tags for ease of identification.

## ARTICLE 12 - DELIVERIES

The Owner will receive shipments Monday through Friday, holidays excluded during its normal receiving hours (7:00 a.m. - 2:30 p.m.) unless prior special arrangements are made.

## ARTICLE 13 - ASSIGNMENT

This Agreement is placed on condition that the Seller shall not assign it, or any payment due or to become due hereunder, without the Owner's prior written consent. Any such assignment(s) without the Owner's prior written consent shall be void. Should the Owner agree to an assignment, the Seller shall remain fully responsible for the acts and omissions of the Seller's assignee and the Seller shall indemnify and hold the Owner harmless from any and all loss and expense arising out of the assignment.

## ARTICLE 14 - AUDIT

The Seller shall, at its own expense, keep and maintain complete records and books of account of its costs and expenses relating to the work in accordance with generally accepted accounting practices. Should a dispute arise between the Owner and the Seller regarding amounts and/or credits under this Agreement, the Seller hereby grants the Owner permission to audit such records and books of account of the Seller's usual place of business at reasonable times.



## ARTICLE 15 - CONFIDENTIALITY

Any of the Owner's drawings, specification or technical information used by the Seller hereunder, shall remain the property of the Owner and shall be held in confidence by the Seller and shall not be reproduced or disclosed to others without the written permission of the Owner. Except to the extent required by law, including without limitation, the Massachusetts Public Records Law, neither the Owner nor the Seller shall divulge or disclose to any third party without the written consent of the other any information concerning the details of this Agreement. If in the event that during the course of rendering performance hereunder, the Seller learns any proprietary information, including but not limited to, technical or business data, projections, plans, or any other confidential information of the Owner, the Seller shall maintain such information as confidential and shall not disclose such information to any person outside its employ, and only to such persons within its employ as is necessary for the Seller to perform its obligations pursuant to the terms of this Agreement.

## ARTICLE 16 - WAIVER

In the event the Owner fails to insist on strict performance of any of the terms and conditions or fails to exercise any of its rights and privileges hereunder, such failure shall not constitute a waiver of such terms, conditions, rights or privileges.

## ARTICLE 17 - SUSPENSION OF WORK

The Owner reserves the right to suspend and/or reinstate this Agreement in whole or in part without being in breach or invalidating this Agreement. The Owner will issue any instructions for suspension or reinstatement to the Seller in writing. The time of completion of the Agreement may be extended for a period equal to the time lost by reason of suspension. However, the Seller shall not be entitled, nor shall the Owner give any consideration to claims for cost increases or for loss of anticipated revenue(s), including overhead and profits, due to any such suspension or reinstatement.

## ARTICLE 18 - TERMINATION FOR CAUSE

The Owner upon written notice, may abandon or terminate this Agreement, or any part hereof, as a result of the Seller's failure to render to the satisfaction of the Owner, the materials, work and or services required of it, including progress of the work and such abandonment or termination shall not be deemed a breach. If it should be determined by a competent third party that the Owner has improperly terminated this contract for cause, it shall be deemed to be termination for the Owner's convenience. The Owner shall be the sole determinant in all termination for cause issues. The Seller shall not be entitled, nor shall the Owner give any consideration to claims for any costs or for loss of anticipated revenue(s), including overhead and profit, due to the abandonment or termination of this Agreement, or any part hereof, by the Owner for cause.

## ARTICLE 19 - TERMINATION FOR CONVENIENCE

The Owner upon written notice may terminate this Agreement or any part hereof, and such action shall in no event be deemed a breach of this Agreement. Such termination may come about for the sole convenience of the Owner. Upon receipt of written notification from the Owner that this Agreement, or any part hereof, is to be terminated, the Seller shall immediately cease operation of the work stipulated and assemble all material that has been prepared, developed, furnished or obtained under the provisions of this Agreement that may be in its possession or custody, and shall transmit the same to the Owner on or before the fifteenth day following the receipt of the above written notice of termination, together with its evaluation of the cost of the work performed. The Seller shall be entitled to just and equitable payment in accordance with this Agreement for any uncompensated work satisfactorily performed prior to such notice.

The Owner shall determine the amount of work satisfactorily performed by the Seller and the Owner's evaluation shall be used as a basis to determine the amount of compensation due the Seller for this work. In determining the value of the work satisfactorily performed by the Seller prior to termination, the Seller shall not be entitled, nor shall the Owner give any consideration to the Seller for claims for loss of anticipated revenue(s) including overhead and profit, which the Seller might have reasonably expected to make on the uncompleted portion of the work.

## ARTICLE 20 - PROHIBITION OF PCBs, ASBESTOS, LEAD, CHROMIUM, MERCURY, SELENIUM, BARIUM, CADMIUM, BENZENE, SILVER, CHLOROFLUOROCARBONS, AND CHLORINATED HYDROCARBONS

Under no circumstances shall the Seller provide materials or components, which contain PCB's or asbestos. This prohibition includes items such as, but not limited to, packing, seals, gaskets, or insulation, regardless whether the item is encapsulated or asbestos fibers are impregnated with a binder material. The same restriction shall apply to all materials and/or chemicals that contain PCB's or contain lead, chromium, mercury, selenium, barium, cadmium, silver or their respective compounds; benzene; Chlorofluorocarbons, such as Freon; and chlorinated hydrocarbons such as, but not limited to 1,1,1-Trichloroethane, Perchloroethylene, Carbon Tetrachloride, or Methylene Chloride, etc. In the instance or application where no other material is an acceptable or feasible substitute for any of the above referenced items, the Seller shall, in writing inform the Owner of the pertinent facts regarding the application. The Owner will respond, in writing, with the disposition of the material or chemical component. No verbal requests and dispositions shall be contractually binding unless accompanied by an MSDS Form and such requests and dispositions are confirmed in writing and accepted by the Owner.

## ARTICLE 21 - COMPLETION

This Agreement will not be considered complete until all specifications and requirements have been satisfied and accepted by the Owner. These requirements also include, but are not limited to, the Owner's acceptance of all documentation, drawings, manuals, etc.

## ARTICLE 22 - INDEMNIFICATION

Except to the extent caused by an act of negligence or willful misconduct by an officer, director, commissioner, agent or employee of the Owner, its successors or assigns, the Seller shall defend, indemnify and hold harmless the Taunton Municipal Lighting Plant, its officers, officials, directors, administrators, boards, commissioners, agents, employees, servants, affiliates, customers and assigns, (the "indemnities") from and against any and all liability, losses, claims, expenses, fees, demands, suits, actions or causes of action or other litigation of every kind and character regardless of by whom such claim or claims may be asserted, for personal injuries, bodily injuries (including death), property damage or otherwise, that may result directly or indirectly from the use, possession or ownership of the goods provided by the Seller pursuant to this Agreement; provided that the Seller shall not be responsible for any such damage or injury which is to no extent contributed to by any defect or failure of the goods or services to conform to the obligations of the Seller under this Agreement.

## ARTICLE 23 - SEVERABILITY

In the event of the invalidity of any portion of this Agreement, such invalidity shall not affect the validity of the remaining portions, which shall remain in full force and be interpreted as if the invalidated portion was never contained herein.

## ARTICLE 24 – MERGER

This Agreement represents the final agreement of the parties and, except as specifically provided herein, all prior negotiations, representations and covenants with respect to this Agreement merge into this document.

## SUPPLEMENTARY TERMS AND CONDITIONS

The following Supplementary Terms and Conditions shall change, modify, or expand the Terms and Conditions only as specifically written below.

### 1. - RISK OF LOSS

The Seller shall include all transportation charges in his bid and all prices quoted shall be F.O.B. destination, delivery point, Taunton, Massachusetts.

### 2. - DELIVERY

The Seller shall provide the Purchaser with advance delivery information by written notification to the Taunton Municipal Lighting Plant of expected delivery a minimum of five (5) business days prior to such date. Notice should be provided to: TMLP, ISG Department, 55 Weir Street, Taunton, Massachusetts, 02780. 508 824 5844.

### 3. - INSURANCE

The Seller shall be required to present evidence in the form of an insurance certificate that it has, currently in force with assurances of continuation, insurance coverage of the type and amounts that will protect the interests of the TMLP from all risks associated with the use of the equipment furnished by the Seller under any contract with the TMLP. Coverage must include, but is not limited to: Comprehensive or Commercial General Liability, Contractual Liability, Broad Form CGL Endorsement, Products/Completed Operations, Independent Contractors and Product Liability coverage with a Vendor's Endorsement favoring the Buyer.

### 4. - CHANGE ORDER PROCEDURE

Any change in the scope of work shall require a written proposal from the awarded Contractor. No Change Orders shall be valid unless prior approval is obtained by TMLP's Project Manager and authorized by the Awarding Authority in writing prior to delivery.

### 5. - REPRESENTATIONS, ASSURANCES AND DELEGATION OF AUTHORITY

All bidding documents must be signed by a person with legal authority to bind the activity making a bid. If incorporated, the bid must be signed by a corporate officer of the company, or in the absence of such signature, the bid must be accompanied by a delegation of authority letter containing a corporate vote that authorizes the person or persons so named to sign in the absence of a corporate officer's signature. Any delegation of authority to sign as the authorized representative of the contractor shall be made in written form and forwarded to TMLP enclosed with the contractor's bid for the project. The right of the person signing the bidding documents shall be established by such or similar means, under oath and subject to penalties of perjury if the signatures provided are not authorized or information provided about delegated authority is found to be false, inaccurate or invalid and TMLP has relied on such information in the

contracting process. If the organization is a sole proprietorship or partnership the signature of the owner or the signatures of all partners must be provided. TMLP and the contractor each represent that they have the power and authority to enter into this Agreement and that the Agreement Form, Form of Agreement or Contract constitutes a valid and binding obligation of each party.

## 6 - NOTICES, CONTRACT PROCESS AND CONTRACT EXECUTION

All notices given by the TMLP shall be in writing and shall be signed by the TMLP or an authorized representative of the TMLP. A Notice of Award may be provided to the awarded Contractor on a case- by-case basis. A Notice to Proceed is also provided by the TMLP on an optional basis and, if provided, will always precede issuance of any Purchase Order Agreement (POA) that may be issued as a result of a contract award, but is not in lieu of a POA. The Notice to Proceed, however, may or may not be followed by a Purchase Order Agreement. If not followed by a Purchase Order Agreement there shall be no valid contract between the parties and the Notice of Award considered null and void. Only in instances where TMLP, as the TMLP, issues a written Purchase Order Agreement that is properly acknowledged by the awarded Contractor shall a contract exist between the parties and the contract considered executed. All responses from Contractors as a result of such notices as may be given or provided by the TMLP shall likewise be in writing and signed by the Contractor or a duly authorized representative of the Contractor.

**TECHNICAL SPECIFICATION**  
**FOR**  
**PURCHASE OF CISCO UNIFIED COMMUNICATIONS DEPLOYMENT**

**TMLP**  
**INTERNET SERVICES GROUP**

**Technical Specification**  
**April 28, 2017**  
**IFB 17-11**  
**Revision 0**

*Kenneth Bell* 5/3/17  
Prepared By / Date

*Brett Baker* 5/4/17  
Reviewed By / Date

# TECHNICAL SPECIFICATION

## 1.0 General

### 1.1 SCOPE OF SERVICES

The TMLP on behalf of the City of Taunton plans to procure and implement Cisco Unified Communications and associated components to replace or expand existing systems.

#### **Facilities include:**

- 1.1.1 Planning
- 1.1.2 BOH-OECD
- 1.1.3 DPW
- 1.1.4 PCPG
- 1.1.5 Retirement
- 1.1.6 Water Treat
- 1.1.7 Airport
- 1.1.8 City Hall
- 1.1.9 Human Services
- 1.1.10 Animal Shelter
- 1.1.11 Nursing Home
- 1.1.12 Police HQ
- 1.1.13 Fire HQ
- 1.1.14 ET Fire
- 1.1.15 Bay St Fire
- 1.1.16 Oakland Fire
- 1.1.17 Fire Prevention
- 1.1.18 Weir Fire
- 1.1.19 Library

**2.0** The City of Taunton expects this project will be a turn-key implementation. “Turn-key” is defined to include: shipping, delivery and provision of materials and equipment; installation; configuration; testing; provision of documentation; and training City of Taunton to use, monitor, and make minor adjustments to system as needed.

**3.0** The selected Respondent shall provide additional system components typically and reasonably required to make the system operational even though not specifically indicated in drawings, appendices, or specifications, including but not limited to patch cables, connectors, connecting accessories, power supplies, power cords, rack mounting adapters and shelves, cover plates and related connector and termination hardware required by but not supplied with the equipment

**3.1** The successful Respondent shall be a system/service provider capable of providing the following (detailed specifications are provided later in this IFB):

**3.2** Building networks capable of transmitting voice, data and video traffic with appropriate quality of service (QoS).

**3.3** Building Unified Collaboration Architecture according to Cisco Best Practices and in accordance with High-Availability design.

## **4.0 Existing Infrastructure**

### **4.1 Warranty**

- 4.1.1** Warranty – In all instances except where noted, please include 1 year of manufacturer's maintenance. The terms except where noted, should be 8x5xNBD (Next Business Day).

## **5.0 GENERAL ROLES AND RESPONSIBILITY**

### **5.1 Permission to Proceed**

- 5.1.1** Within 10 days of contract execution the Contractor shall submit a Statement of Work with an estimate of schedules and benchmarks. The document should identify in detail the exact tasks that the City of Taunton and Contractor must perform and/or be responsible for in order to accomplish the delivery and installation of the system. The Contractor shall project the delivery dates and installation periods by function (cable, under-carpet wiring, switch, stations, etc.), which shall allow the Contractor to meet the required completion date.
- 5.1.2** The Contractor shall provide the City of Taunton with shop drawings of the proposed equipment placement for each location prior to the procurement of equipment or commencement of work. The Contractor shall make corrections and additions as necessary to the design documents. Equipment lists, data sheets, etc., shall be provided in MS Word, MS Excel, and MS Visio.
- 5.1.3** The project timeline shall not be altered due to lateness of submittals. The Contractor shall remain bound to deliver a timely, complete, and finished project as stipulated in its contract.
- 5.1.4** The failure of the Contractor to provide submittals as required herein may result in the cancellation of the contract.
- 5.1.5** Contractor must obtain the City of Taunton's permission before proceeding with any work necessitating cutting into or through any part of a building structure.
- 5.1.6** Prior to ordering, furnishing, or installing any equipment, the Contractor shall obtain the City of Taunton's written approval of equipment, locations, layout, and installation.
- 5.1.7** The Contractor shall re-verify closet locations with the City of Taunton and City of Taunton's Project Manager prior to installation.

## **6.0 Damage and Cleanup**

- 6.1** Existing floors, walls, ceilings, or any structural piece shall not be drilled or cut without prior approval of the City of Taunton. The Contractor shall be held responsible for and make payment on any damage caused from the delivery and/or installation of its work.



## **7.0 Project Manager**

**7.1** The Contractor shall appoint a Project Manager who shall be the main point of contact regarding the project for City of Taunton. The Project Manager is responsible for the following:

**7.1.1** Ensuring the contract is completed successfully in a timely manner.

**7.1.2** Guaranteeing the work and performance of all employees that have been hired by the Contractor.

**7.1.3** Completing and submitting all required submittals and documentation.

**7.1.4** Attending all project coordination and/or construction meetings as required by the City of Taunton, plus chairing a weekly project status meeting throughout the duration of the project.

**7.1.5** Maintaining the project status meeting minutes and distributing them to all participants within two days following the meeting.

**7.1.6** Providing written status reports to the City of Taunton Project Manager monthly.

**7.1.7** Informing the City of Taunton of all unexpected conditions and problems that may result in delay or expense. The Contractor must report issues immediately upon discovery and must provide the City of Taunton with the option(s) for resolving them.

**7.1.8** The Contractor and/or City of Taunton may require changes during the project(s).

**7.1.9** Any changes must be accompanied by a formal Change Order Request form that will be provided by the City of Taunton. Once approved, the Change Order will be submitted to the City of Taunton by the Consultant for review and approval. Once approved, the fully executed Change Order will be sent to the Contractor.

**7.1.10** If the Contractor seeks to change the Project Manager during the course of the project, such change is subject to prior written approval from the City of Taunton.

**7.1.11** The City of Taunton reserves the right to request a new Project Manager during the course of the project if the Project Manager does not perform to the City of Taunton's satisfaction.

## **8.0 Respondents may assume rack space is available for all components.**

**8.1** If other Contractors' work delays this Contractor, that information must immediately be communicated to the City of Taunton's Project Manager and appropriate extra time may be allowed. Shipping delays are the sole responsibility of the Contractor.

## **9.0 Installation Requirements**

- 9.1** The Contractor shall host a kick-off meeting(s) to review, discuss, and plan configuration and installation details. Prior to the kick-off meeting, the Contractor shall review existing configuration files and look for opportunities to increase functionality, security, and manageability. At the conclusion of the kick-off meeting(s), findings, recommendations, and all implementation details shall be documented and provided as part of the submittal process.
- 9.2** The Contractor shall perform the upgrades, installation, configuration, training for the City of Taunton's personnel, and support of the proposed systems.
- 9.3** Contractor shall be fully authorized/ certified to supply, upgrade, install, configure, provide warranty service, and troubleshoot/support the proposed equipment.
- 9.4** All installation and maintenance personnel shall have completed certified manufacturer training, or the Contractor shall contract with manufacturer for installation of all proposed components.
- 9.5** For any equipment items/systems accepted by the City of Taunton and made part of the contract, the following must be included: shipping, delivery, installation, configuration, testing, user training, system cutovers, documentation, and day one/day two support options detailed in the IFB UCS FOB.
- 9.6** The Contractor shall take responsibility for proper ordering, shipping charges and delivery of all component parts. This includes any components to be ordered from any third-party companies.
- 9.7** The personnel listed in the Respondent's proposal shall be the personnel assigned to this project. If changes are required, the Contractor shall gain written approval from the City of Taunton's Project Manager prior to assignment of substitutes.
- 9.8** Manufacturer(s) or a certified training agency thereof must be offered to the City of Taunton employees on products supplied.
- 9.9** The Contractor certifies that it has, with staff employees, previously configured and operated a system with components as quoted.
- 9.10** Any technician(s) dispatched to install or fix a failed component shall have been factory trained and certified by the manufacturer of the proposed equipment. The Contractor is responsible for following industry standards and all manufacturer installation and maintenance practices.
- 9.11** The Contractor is responsible for working with the City of Taunton to understand the IP addressing scheme and for implementing this scheme in the furnished devices.
- 9.12** The Contractor is responsible for ensuring all equipment installed is running the latest, generally available version of software or firmware. All equipment shall be running the same version of software or firmware, including minor train releases.
- 9.13** The Contractor shall install hardware in a secure manner. Screws shall be tightened to a torque just sufficient to secure equipment without deforming washers beyond their original diameter.

- 9.14** All rack-mount equipment shall be secured as recommended by the manufacturer with consideration to airflow, power, and patch cable connections.
- 9.15** The Contractor shall make the system properly operational and physically secure by mounting equipment and related accessories into furniture, consoles, and racks as required. Manufacturer's guidelines for installation shall be followed.
- 9.16** Discrepancies in installation procedure or an inability to complete a given task due to a shortage of materials or malfunctioning equipment shall be reported to the City of Taunton immediately upon discovery.
- 9.17** The Contractor shall be responsible to label all cables and equipment components installed as part of this project. In doing so, make the labeling of each component:
  - 9.17.1** Unique, to prevent it from being confused with other similar components
  - 9.17.2** Legible and permanent enough to last the life of the component. Handwritten labels shall not be permitted.
  - 9.17.3** Appropriate labeling schemes and the information to be included on the labels shall be reviewed during the kick-off meeting. It is the Contractor's responsibility to collect this information prior to implementation.
  - 9.17.4** Velcro straps shall be installed snugly without deforming cable insulation. Straps shall be spaced appropriately and is not to exceed four (4) feet.
- 9.18** The Contractor shall unpack equipment from shipping material and organize equipment into the kits from which it shall be used. This includes checking to ensure that all equipment is complete and fully functional. Empty boxes and packaging shall be neatly organized per the City of Taunton's instructions and/or removed if requested.
- 9.19** Some cutovers shall take place outside of normal business hours to avoid any disruption of service. The Respondent shall not charge any additional fees to cutover all proposed voice and data systems after normal business hours. The City of Taunton expects the Respondent to be flexible in its willingness to not negatively impact City of Taunton.
- 9.20** The Contractor shall provide a weekly update to the City of Taunton Project Manager on the project status.
- 9.21** The Contractor shall supply one complete set of hardware and software documentation/manuals for all provided items at no additional cost.

## **10.0 Security**

- 10.1** When deploying any product, software, or application associated with this IFB, the Contractor shall secure the resulting system(s). Securing includes the following actions:
- 10.2** Determining the purpose of the system and minimum software and hardware requirements;

- 10.3** Documenting the minimum hardware, software, and services to be included on the system
- 10.4** Installing the minimum hardware, software, and services necessary to meet the requirements using a documented installation procedure
- 10.5** Installing necessary patches
- 10.6** Installing the most secure and up-to-date versions of applications
- 10.7** Configuring privilege and access controls
- 10.8** Configuring security settings as appropriate, enabling allowed activity and disallowing other activity
- 10.9** Enabling logging sufficient for the City of Taunton staff to determine equipment faults or configuration problems in the telephony equipment
- 10.10** Archiving the configuration and checksums in secure storage prior to system deployment
- 10.11** Testing the system to ensure a secure configuration
- 10.12** Using secure replication procedures for additional, identically configured systems, making configuration changes on a case-by-case basis
- 10.13** Changing all default passwords; and testing the resulting systems

## **11.0 Project Closeout and Acceptance**

- 11.1** Punch List – Work or materials found to be incomplete, of unsatisfactory quality, failing to meet the specifications in the IFB package and resulting contract, and/or unacceptable to the City of Taunton shall be documented in a punch list by the City of Taunton and provided to the Contractor to rectify.
- 11.2** The punch list shall be considered complete only after having been signed by the City of Taunton.
- 11.3** Acceptance – Acceptance shall occur after all of the following conditions have been met:
  - 11.3.1** All items/systems have been delivered, installed, configured, tested, and transitioned into service.
  - 11.3.2** The system, including all ancillary devices, applications, and options made part of the contract, has had 30 consecutive days with 100 percent availability.
  - 11.3.3** All of the work has been completed in accordance with the contract and IFB specifications (including testing procedures as outlined in the accepted response).
  - 11.3.4** Training as specified is complete.

**11.3.5** The system operates in conformance with manufacturer's published specifications.

**11.3.6** The system is transitioned to service.

**11.3.7** All of the documentation requirements have been met.

**11.3.8** All outstanding punch list items have been corrected.

**11.3.9** The system post-cutover requirements have been completed.

**11.3.10** The Contractor has supplied test results needed to verify compliance with the specifications found in this IFB.

**11.3.11** The Contractor has certified in writing to the City of Taunton that the system is installed and operational in accordance with these specifications and is ready for use.

**11.3.12** The City of Taunton or the City of Taunton's designated representative has inspected the installation and provided written approval

**11.3.13** Software refresh has been completed (to ensure all systems operate on the latest software).

**11.3.13.1** At this time, upon the City of Taunton's written acceptance, operational control becomes the responsibility of the City of Taunton. This constitutes Date of Acceptance. The warranty for the entire system and all components begins as of this date.

## **12.0 Warranty Period**

**12.1** The Contractor, by entering into a contract with the City of Taunton, warrants and represents that all materials, equipment, and services delivered to the City of Taunton pursuant to the contract conforms to all of the specifications contained or referred herein. The Contractor further guarantees to replace all materials, equipment, software, or services that may be rejected by the City of Taunton due to defective materials or workmanship for a minimum of one year following acceptance. Failure or neglect of the City of Taunton to require compliance with any term or condition of the contract specifications shall not be deemed a waiver of such term or condition.

## **13.0 Master Maintenance Contract**

**13.1** Due to the potential of a phased implementation schedule, the Contractor shall work with City of Taunton to provide a co-terminated equipment maintenance schedule so that all equipment support terminates at the same time.

## **14.0 TECHNOLOGY SYSTEMS REQUIREMENTS**

### **14.1 Proposal Response**

**14.1.1** Respondents shall respond to all portions of this IFB.

**14.1.2** Individual components and line item pricing are to be included in Bills of Materials.

## **15.0 Scope of Technology Systems Contract**

**15.1** The vendor to whom the TMLP awards this contract must provide the following within 10 days of contract execution:

**15.1.1** The name and contact information for the Contractor's assigned Project Manager.

**15.1.2** A project schedule showing milestones for equipment ordering, equipment delivery, installation at each site, and testing.

**15.1.3** A testing plan outlining the tasks that will be accomplished during testing and the amount of involvement required from the Owner.

## **16.0 Unified Communications – Required Element**

**16.1 PROJECT SCOPE** – Vendor shall provide Professional Engineering Resources to replace existing Panasonic and Centrex system with a Cisco Unified Communications solution for City of Taunton to service the locations referenced in 1.1.

## **17.0 Responsibilities of the Parties/ VENDOR Responsibilities**

**17.1** Build a core Unified Communications infrastructure as defined in the attached Bill of Materials (BOM) to support City of Taunton. The solution will consist of Cisco Unified Communications Manager, Cisco Unified Presence, Cisco Unity Connection, Cisco Prime License Manager, Cisco Mobile Remote Access (Expressways), Cisco Emergency Responder, Informacast Advanced Paging and Variphy Call Detail Records (CDR).

**17.2** The following sites will be configured with Survivable Remote Site Telephony (SRST) to support all devices at the location in the event of a WAN failure. Two POTS lines will be connected to each voice gateway with both port available for emergency calling and one port will be available for local and national calling.

**17.2.1** Nursing Home

**17.2.2** City Hall

**17.2.3** DPW

**17.2.4** Water Treatment Plant

**17.2.5** Fire HQ

**17.3** The voice CUBEs at Police HQ and Water Treatment will have 50 SIP call paths configured for a carrier of City of Taunton's choosing.

**17.3.1** PoliceHQ will migrate existing POTS lines from the existing Panasonic that consist of 911 and existing THS, Cleary, Morton Hospital and other ringdowns into the local gateway.

## **18.0 Quality of Service**

**18.1.1** The vendor will review City of Taunton and extended network to ensure that IOS, QoS, Multicast, Spanning Tree, DHCP and layer 2 segmentation of voice and data are configured properly to support the new solution. Vendor will work with City of Taunton to provide specific changes necessary to support the new solution. The configurations of City of Taunton network are the responsibility of City of Taunton under the supervision of the selected vendor. The vendor will review the modified configurations prior to phone installation to ensure the network is ready to support the solution.

## **18.2 Dial-Plan/Call Routing Considerations**

**18.2.1** Create and build an E164 dial plan which will include E164 route patterns, 8+normalized dial plan, site specific abbreviated digit dial plan and centralized specific 4 digit dial plan.

**18.2.2** Configuration for inbound E164 presentation to the phones call logs and normalized presentation to the phone displays while in a ringing state.

**18.2.3** Configure Time of Day Routing for specific main line DID's so that calls are sent to the auto attendant during closed hours but delivered to the phone during business hours.

**18.2.4** Configure a special class of service for each location for paging. Allow only the specific extensions to have access to this paging CoS.

## **18.3 Endpoints**

**18.3.1** For each location, assume configuration and deployment of devices as detailed in provided BOM

**18.3.2** Some shared lines will be configured on select office area phones.

**18.3.3** External phone number mask should be set to the location's main number for all phones unless specifically shown otherwise in the configuration information provided by City of Taunton during the time of install.

**18.3.4** Some locations will require the installation of SIP hidden alarm buttons, City of Taunton's Project Manager will give final count and location of each one. The City will provide network connections for the SIP alarm button at each location. Requested product is Cyberdata- 011049.

**18.3.4.1** City Hall – Assessors Office

**18.3.4.2** City Hall – Location 2

**18.3.4.3** City Hall – Location 3

**18.3.5** Configure all endpoints in system with the information provided from City of Taunton during the time of install.

## **18.4 Staging Services**

**18.4.1** Staging will include installation of VMWare on UCS servers, all UC applications and infrastructure, including; phones and gateways.

**18.4.2** Remote dial in and VPN or WebEx access for City of Taunton to test and approve configurations prior to go live.

## **18.5 Unity Connection**

**18.5.1** Each site will have a Call Handler to route calls.

**18.5.2** Police/Fire will need Gmail voicemail message action for relaying / accepting setup for all users.

## **18.6 IM and Presence**

**18.6.1** Configured and setup for up to 10 test users. The Jabber clients should be configured for voice, video, voice mail and IM functions using 10 test users.

**18.6.2** AD integration will be required for these users.

## **18.7 Cisco Emergency Responder**

**18.7.1** One Cisco Emergency Responder Location (ERL) will need to be configured for each site with multiple on site alert destination for each site.

**18.7.2** Each location will use its POTS interface for the time being to route the 911 calls. Each POTS line will be configured to call back to the receptionist desk. Selected vendor will recommend quantity of POTS and location of such lines.

**18.7.3** Coordination with City of Taunton and the Telco provider to enable E911 on the SIP service. Vendor to provide direction and oversight only.

**18.7.4** Tracking of phone via SNMP, subnet and switch port will be required even if E911 is not setup at time of installation.

**18.7.5** All analog phones connected to the system will require a static mapping to the sites ERL.

**18.7.6** Any future enhancements to this design are not part of these initial offerings which would include creating multiple ERL's per location identified by wiring closets, subnets or switch ports.

## **18.8 Paging**

### **18.8.1 Integration to the existing overhead paging systems.**

**18.8.1.1** The paging system at City Hall is a Speco Technologies PL-260a and requires a station side interface.

**18.8.1.2** The paging system at Nursing Home is a Bogen C-60 and requires a station side interface.

**18.8.1.3** The paging system at Fire HQ is a Speco PAT-60 and requires a station side interface.



- 18.8.1.4** The paging system at ET Fire is a Bogen TPU-100B and requires a station side interface.
- 18.8.1.5** The paging systems at Bay St Fire, Oakland Fire, Fire Prevention, and Weir Fire are Bogen TPU-60B and require a station side interface.
- 18.8.1.6** City of Taunton would like to standardize the paging route patterns for consistency among locations if possible (understanding that 3<sup>rd</sup> party vendor assistance could be required). The vendor will verify the type of connectivity required before making connections to the paging units.
- 18.8.1.7** Paging should be integrated with Informacast to setup zones for each location that has paging as well as paging through the speaker phones.
- 18.8.1.8** Informacast CallAware will also be setup to alert 5 phones about a 911 call.
- 18.9** Install 2 Cisco UCS C220 servers as provided in BOM. Apply VMware Standard licenses to City of Taunton vCenter server for these two servers.
  - 18.9.1** One at West Water St DC.
  - 18.9.2** One at Police HQ.
- 18.10** Setup DMZ on City provided ASA 5540 for connectivity of Mobile Remote Access / Cisco Expressways as detailed in the provided BOM. A secondary network connection will run from the UCS server at West Water St DC into the DMZ as specified by the City of Taunton Project Manager. The MRA server will provide remote phone/instant messaging services over the internet, protected by SSL certificates provided by the City of Taunton.
- 18.11** Install ISI Verba for call recording. City of Taunton Project Manager will provide a list of 40 phones to be recorded.
- 18.12** Install voice gateways one at each location in 17.2 plus the two at Police HQ and Water Treatment Plant for PSTN access.
- 18.13** Install all phones as defined in provided BOM.
  - 18.13.1** 20 will be wall mounted requiring modifications.
  - 18.13.2** Execute test and migration plans
  - 18.13.3** Configure and schedule regular backups of all Cisco Applications to City of Taunton's provided SFTP servers.
- 18.14** Training Options
  - 18.14.1** Provide Train the Trainer style training with customized content and takeaways for up to 3 scheduled 2-hour sessions and 15 defined users.
    - 18.14.1.1** Training can be delivered in-person or electronically
    - 18.14.1.2** Provide Hosted Phone Model training

- 18.14.1.3 Secure with login
- 18.14.1.4 Customizable to models and options installed
- 18.14.2 Provide Administrative Training for each installed application
  - 18.14.2.1 4-hour session for City of Taunton
  - 18.14.2.2 4-hour session for Police / Fire
- 18.14.3 Provide Full End-User Training
  - 18.14.3.1 25 – 1 hour sessions
  - 18.14.3.2 Up to 20 people per session
- 18.14.4 Provide all as built documentation.
- 18.14.5 Install and Configure Variphy Application
  - 18.14.5.1 Setup Call Detail Reporting
  - 18.14.5.2 Provide Administrative training to configure and collect CDR reports.

## 19.0 Physical Installation – Required Element

- 19.1 All devices are to be labeled on the backside with hostname and IP address assigned. Labeling/naming scheme must be discussed with and pre- approved by City of Taunton prior to beginning labeling procedures.
- 19.2 All ports (physical and logical) capable of having descriptions configured within the system must have a clear identification of that connection. This applies to all elements including but not limited to access points, switch uplinks, VLANs, compute components, and UPS systems. This does not apply to user stations, IP phones, printers, and other user-oriented devices. If a question of whether a device should be labeled, it is the sole responsibility of the Contractor to seek clarification. Scheme must be discussed with and pre-approved by Owner prior to beginning configuration procedures.
- 19.3 When “hot” cutovers from existing systems to new systems are required, Contractor shall schedule each cutover with the City of Taunton at least two days prior to occurrence.
- 19.4 Existing racks or cabinets in MDF/IDF rooms throughout the City of Taunton are to be utilized. If there appears to be insufficient space in any rack or cabinet, the Contractor must notify the City of Taunton’s Project Manager immediately and wait for a decision before proceeding with installation at that location.
- 19.5 For installation of patch cables – NEATNESS COUNTS. The finished installations must be tidy and the cabling well supported. No plastic tie wraps may be used. Hook and loop type material (e.g., Velcro) ties may be used to bundle cables. Patch cables may not be twisted, bent or otherwise deformed beyond standard allowable bend radius.
- 19.6 When cutover is completed, existing equipment is to be removed from racks/cabinets/shelves by the Contractor and provided to the City of Taunton’s Project Manager for disposition, or if required by trade-in policy, packed up and shipped as necessary.

- 19.7 All rubbish, debris, and dirt resulting from the Contractor's work shall be cleaned up and removed from the building daily. The premises shall at all times be kept in a clean, safe, and professional manner.
- 19.8 To facilitate routine in-house maintenance of the system after acceptance, up to two City of Taunton personnel are to be observers during and assist with all facets of the installation process. The Contractor must allow for the training/assistance of these people during installation.
- 19.9 Work shall be performed during normal hours of operation for the building where the work is taking place. Any deviations must be discussed with and approved by the City of Taunton's Project Manager or agent prior to work occurring.
- 19.10 **Documentation:** When installation is complete, the Contractor shall furnish City of Taunton with two complete sets (in three-ring binders, each with an accompanying electronic copy) of data network project documentation. Contractor shall provide documentation as follows:
  - 19.11 Logical diagrams showing all installed equipment, including locations (MDF or IDF). Diagrams must be submitted in MS Visio 2010 or later. Equipment stencils must accurately represent the equipment installed.
  - 19.12 Rack elevations for the Data Center to include all existing as well as newly implemented components. Diagrams must be submitted in MS Visio 2010 or later. Equipment stencils must accurately represent the equipment installed.
  - 19.13 Hostnames, model numbers, serial numbers, asset tag identification numbers, and IP addresses assigned to all equipment shall be noted both on diagrams and on a separate table/spreadsheet. Spreadsheet must be submitted in MS Excel 2010 or later.
  - 19.14 A thorough list of all passwords and SNMP community strings configured on each device. This list shall be organized by device type.
  - 19.15 Description of warranty and servicing levels for all components, including contract numbers with begin and end dates. Include technical support numbers for each contract.
  - 19.16 Finalized configuration details as determined in the kick-off meeting.

## 20.0 COST & BILL OF MATERIALS

- 20.1 Provide bill of materials (BOM) showing model number/description, list price, discounted unit cost, quantity, and extended discounted cost for all components proposed. Respondent shall provide this BOM in a MS Excel format in addition all bids shall be received in triplicate and must be typed written or written in ink.
- 20.2 Optional components shall have configuration and installation clearly identified. **If it is not, City of Taunton will assume the price for configuration and installation is in the base price.**
- 20.3 Include acknowledgement that pricing proposed will be valid for 6 months.

## **21.0 RESPONDENT ASSUMPTIONS**

- 21.1** Respondent must provide all equipment, including but not limited to hardware, software, servers, and labor required to support and install the proposed systems and all optional equipment/applications proposed.
- 21.2** Provide details of any other assumptions taken in preparing your response to the IFB.

## **22.0 INSTALLATION METHODOLOGY AND DRAWINGS**

- 22.1** Provide a detailed description with diagrams of how the proposed systems would be deployed. Include the following:
- 22.2** Detailed Scope of Work (SOW) clearly outlining the steps involved in deploying the systems. **A SOW shall accompany every price for installation and configuration so that City of Taunton clearly understands what is included with each price for installation and configuration.**
- 22.3** Timeline of implementation with the number of resources that would be assigned to the project.
- 22.4** Quality control methodology and systems used.
- 22.5** Project management methodology and systems/tools used.
- 22.6** Escalation process with names and contact information.

## **23.0 ACCEPTANCE TESTING**

- 23.1** Provide the recommended acceptance test plan for all proposed products and applications.

## **24.0 RESPONDENT QUALIFICATIONS, SUPPORT CAPABILITIES, AND REFERENCES**

### **24.1 Information about the Respondent**

- 24.1.1** Company name
- 24.1.2** Legal name (if different)
- 24.1.3** Years in business
- 24.1.4** Number of years selling systems similar to this IFB
- 24.1.5** Contact person
- 24.1.6** Full mailing address
- 24.1.7** Telephone number
- 24.1.8** Fax number
- 24.1.9** E-mail address
- 24.1.10** Number of full-time employees
- 24.1.11** Industry Recognitions
- 24.1.12** Number of technical/installation personnel (minimum of four dedicated to this project)

## **25.0 Experience and Existing Customers – How many similar systems has the Respondent sold/installed?**

**25.1** All Respondents must provide a minimum of six (6) references using the reference format provided below. The references must be similar in scope and size to the City of Taunton's project and must include the following:

**25.1.1** At a minimum, one unique reference from a Service Provider Client

**25.1.2** At a minimum, one unique reference of a complex Unified Communication deployment of at least 5k IP Phones.

**25.1.3** At a minimum, one municipal/government based reference.

**25.1.4** References must demonstrate that the Respondent has extensive knowledge of all equipment proposed and has at least five (5) years of experience with the same system(s).

**25.1.5** **References will be contacted – please verify information before submitting.**

**25.1.6** Use the format below for all references. All references will be called. Please inform your contacts that a 10 to 15 minute call may be anticipated.

**26.0** **Service Provider Reference 1:**

**26.1** Organization Name

**26.2** Address

**26.3** Type of Business

**26.4** Contact Person

**26.5** Telephone Number

**26.6** Fax Number

**26.7** Date of Installation

**26.8** Description of System

**26.9** Number of Access Points

**27.0** **Unified Communication Reference 2:**

**27.1** Organization Name

**27.2** Address

**27.3** Type of Business

**27.4** Contact Person

**27.5** Telephone Number

**27.6** Fax Number

**27.7** Date of Installation

**27.8** Description of System

**27.9** Number of Access Points

**28.0** **Education Reference:**

**28.1** Organization  
Name

**28.2** Address

**28.3** Type of Business

**28.4** Contact Person

**28.5** Telephone Number

**28.6** Fax Number

**28.7** Date of Installation

**28.8** Description of System

**28.9** Number of Handsets

**29.0** **Subcontractors**

**29.1** The use of subcontractors is not permitted. The respondent is responsible for understanding the full scope of the project and determining its ability to perform under all requirements set herein.

**29.2** Please acknowledge full understanding of the systems and scope of project specified herein.

**29.3** **Managed Services**

**29.3.1** Provide pricing for three options of Vendor provided Managed Services as detailed below.

**29.3.2**

Service Plans:	Full	Proactive	MACD	Reactive	
<b>Availability Monitoring</b>	y	y	y		
<b>Alert Management</b>	y	y	y		
<b>Service Desk</b>	y	y	y	y	
<b>Incident Management</b>	y	y	y	y	

<b>MACDs</b>	y		y	
<b>Vendor Management</b>	y	y		y
<b>Problem Management</b>	y			
<b>Change Management</b>	y			

**30.0** These Services Option definitions are aligned with ITIL elements and details of these elements are provided in Service Definitions. These services will be provided 24x7x365.

**31.0** If support offerings are different than listed in 29.3.2, please supply documentation of managed services.

## **32.0 Service Definitions**

### **32.1 Availability Monitoring**

**32.1.1** This service provides the monitoring platform using the multi-tenant monitoring platform. Following service will be provided under this category:

- 32.1.1.1** 24/7 monitoring of the client environment
- 32.1.1.2** On-going baseline and managing thresholds
- 32.1.1.3** Providing performance and capacity reports
- 32.1.1.4** Live dashboard on system availability and performance
- 32.1.1.5** Auto-Notification to the Alert Management team for initial triage and validation of alert

## **33.0 Alert Management:**

**33.1** This service is defined to provide the initial validation and triage based on Knowledge base. Following service will be provided under this category:

- 33.1.1** 24/7 team to respond to alerts generated from the monitoring tools
- 33.1.2** Validate Alerts for false-positive
- 33.1.3** Follow client notification process
- 33.1.4** Triage and remediate based on knowledgebase
- 33.1.5** Escalate to incident Management

## **34.0 Service Desk:**

**34.1** This service is defined to provide the first call support. The following service will be provided under this category:

- 34.1.1** 24/7 service desk to support client calls
- 34.1.2** Open tickets and follow notification procedure
- 34.1.3** Assist client with information on performance or ticket status
- 34.1.4** Assist client with initial triage of end-user performance issues
- 34.1.5** Escalate to incident Management

## **35.0 Incident Management**

**35.1** This service is defined to provide the Level II technical team for escalation from the Service Desk and Alert Management team. The following service will be provided under this category:

- 35.1.1** 24/7 level II technical team to troubleshoot and identify the root cause of the incident
- 35.1.2** Escalate to vendors for any issues related to its code/application
- 35.1.3** Provide review and feedback on any configuration related issues

### **36.0 MACDs**

**36.1** This service is defined to provide Moves, Adds, Changes and Delete in the Client environment. Any changes that are considered as standard changes and does not require planning and design can be qualified as MACDs. Changes that fall under this category are changes that can be implemented in less than one hour.

**36.1.1** Unlimited MACDs will be provided under this service category

### **37.0 Vendor Management**

**37.1** This service category is defined to extend the Service Provider's ability to efficiently work with the vendors and be able to improve the MTTR. Some of the examples of this category are

**37.1.1** Working with Telco's for circuits that are connected to the Service provider Managed devices

**37.1.2** Working with third-party vendors who have device or applications integrated with the service provider managed devices

**37.1.3** Working with Vendors for replacement of faulty hardware covered under maintenance

### **38.0 Problem Management:**

**38.1** This service is defined to provide the in-depth analysis of repetitive incidents and identify the root cause. This service covers the following

**38.1.1** 24/7 Technical experts to assist Incident Managers for in-depth analysis of the Incident

**38.1.2** Analyzing the root-cause of repetitive incidents

**38.1.3** Manual audit on systems to validate the health of the environment

**38.1.4** Evaluating Changes recommended by the Change Management team

### **39.0 Change Management:**

**39.1** This service is defined to provide the changes in the client environment as it relates to break/ fix.

**39.1.1** 24/7 Change Management team to review the changes in the environment and detail the Change Document to the Change Approval Board

**39.1.2** Implementing changes remotely for any changes that has to be incorporated to remediate the issue in the Client environment

**39.1.3** Applying patches or bug fixes remotely to remediate any issues in the Client environment

## **Response and Resolution Times**

### **Service Level Objective**

<b>Offering</b>	<b>Notification</b>	<b>Problem statement &amp; Data Gathering</b>	<b>Escalation to Client Team</b>	<b>GDTAS Restoral of Service</b>	<b>SLO</b>
<b>Full Offering</b>					
Severity 1 (Critical)	15 minutes	30 minutes	N/A	2 hours	98%
Severity 2 (high)	30 minutes	30 minutes	N/A	2 hours	98%
Severity 3 (medium)	2 hours	30 minutes	N/A	8 business hours	95%



Severity 4 (low)	4 hours	30 minutes	N/A	16 business hours	90%
Severity 5 (minimal)	N/A	30 minutes	N/A	N/A	N/A
<b>Proactive</b>					
Severity 1 (Critical)	15 minutes	30 minutes	15 minutes	2 hours	98%
Severity 2 (high)	30 minutes	30 minutes	15 minutes	2 hours	98%
Severity 3 (medium)	2 hours	30 minutes	15 minutes	8 business hours	95%
Severity 4 (low)	4 hours	30 minutes	15 minutes	16 business hours	90%
Severity 5 (minimal)	N/A	30 minutes	15 minutes	N/A	N/A
<b>Reactive</b>					
Severity 1 (Critical)	N/A	N/A	N/A	N/A	N/A
Severity 2 (high)	N/A	N/A	N/A	N/A	N/A
Severity 3 (medium)	N/A	N/A	N/A	N/A	N/A
Severity 4 (low)	N/A	N/A	N/A	N/A	N/A
Severity 5 (minimal)	N/A	N/A	N/A	N/A	N/A

### Severity Levels Definition

<b>Sev 1</b>	<b>“Critical”</b>	Defined as an unscheduled out of service condition impacting more than 10% of the users during core business hours. Out of service means service failure or service that is too slow to be useful.
<b>Sev 2</b>	<b>“Major”</b>	Defined as an unscheduled out of service condition impacting multiple users during core business hours, <or> slow response times are impacting a majority of users during core business hours, <or> an otherwise <b>Sev 1</b> event that occurs during non-core hours.
<b>Sev 3</b>	<b>“Minor”</b>	Defined as an unscheduled out of service condition impacting a user during core business hours, <or> an unscheduled out of service condition has eliminated redundancy, <or> an otherwise <b>Sev 2</b> event that occurs during non-core hours.
<b>Sev 4</b>	<b>“Alert”</b>	Defined as an unscheduled condition in which a problem appears to be occurring but is not considered an out of service event.
<b>Sev 5</b>	<b>“Notification”</b>	Defined as any other event in which tracking is desired. This includes unusual events that require investigation, scheduled outages, tracking of maintenance, etc.

## 40.0 VALUE-ADD

**40.1** Please provide a detailed description of any value-added services the respondent is providing as a part of this IFB.

**40.2** For example, a respondent may propose to provide wireless site surveys before and after the wireless implementation at no additional cost.

**40.3** For example, a respondent may propose to have the project manager present at monthly board meetings or when requested by the City of Taunton to provide updates if necessary.

**40.4** The City of Taunton is seeking creative and innovative ideas that may bring additional value to the City of Taunton.

**40.5** Value-added description: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**41.0 Pricing**

**41.1** Vendor shall provide unit pricing and extended pricing in the Form of Bid. Unit pricing shall be valid for 6 months from issue of purchase order for purposes of City of Taunton procurement of additional components.

**42.0 Schedule**

**42.1** Vendor shall supply components within 15 days of receipt of purchase order.

**43.0 Delivery**

**43.1** Costs shall be included in quote.

**43.2** Equipment shall be delivered FOB 12 Mechanics Lane, Taunton, MA 02780.

# FORM OF BID

FURNISH, DELIVER AND INSTALL  
CISCO UNIFIED COMMUNICATIONS DEPLOYMENT

FOR THE

TAUNTON MUNICIPAL LIGHTING PLANT  
55 WEIR STREET,  
TAUNTON, MASSACHUSETTS, 02780

\_\_\_\_\_2017

Taunton Municipal Lighting Plant,  
Office of the Commission, City of Taunton Massachusetts

We the undersigned doing business as \_\_\_\_\_,  
the Bidder, agree to furnish and deliver the required equipment in strict accordance with IFB17-  
11, dated April 28, 2017, for the prices as indicated beginning on the next page.

## FORM OF BID

City Hall Hardware	Item Name	QTY	Unit Price	Extended Price
	<b>CP-8851-K9=</b>	65		
	<b>CP-BEKEM=</b>	4		
	<b>CP-PWR-CUBE-4=</b>	12		
	<b>CP-8831-K9=</b>	10		
	<b>CP-MIC-WIRED-S=</b>	4		
	<b>Cyberdata- 011049</b>	1		
	<b>CP-7925G-A-K9</b>	1		
	<b>CP-BATT-7925G-EXT=</b>	1		
	<b>CP-DSKCH-7925G-BUN</b>	1		
	CP-DSKCH-7925G	1		
	CP-PWR-DC7925G-NA	1		
	<b>ISR4321-V/K9</b>	1		
	SL-4320-IPB-K9	1		
	SL-4320-UC-K9	1		
	PVDM4-32	1		
	PWR-4320-AC	1		
	CAB-AC-C5	1		
	MEM-4320-4G	1		
	MEM-FLSH-4G	1		
	SISR4300UK9-314S	1		
	FL-SRST	1		
	FL-CME-SRST-25	2		
	NIM-4FXO	1		
	NIM-4FXS	1		
	<b>R-CBE6K-K9</b>	1		
	BE6K-SW-10.X	1		
	BE6K-UCL-ENH	10		
	BE6K-UWL-STD	30		
	UCM-10X-ENH-UCL	10		
	UCXN-10X-UWLSTD	30		
	BE6K-PAK	1		
	UCM-10X-UWLSTD	30		
	BE6K-START-UWL35	1		
	BE-10X-UWLS-STR	1		
	BE6K-UXL-START	1		
	UCXN-10X-SCPORTS	2		

<b>City Hall Smartnet (SN) Services</b>	<b>Item Name</b>	<b>QTY</b>		
	CON-SNT-ISR4321V	1		
	CON-ECMU-RCBE6KK	1		
	CON-ECMU-UCMENHUC	10		
	CON-ECMU-UCMUWLST	30		
	CON-ECMU-BE10XLU	1		
<b>City Hall Pricing</b>		<b>Total</b>		
<b>City Hall Hardware Cost</b>				
<b>City Hall Smartnet Services Cost</b>				
<b>Implementation Cost (with Two Days of Support)</b>				
<b>Shipping &amp; Delivery</b>				
<b>City Hall Subtotal Cost</b>				
<b>After 1<sup>st</sup> Year SmartNet Services Cost (2nd Yr. Cost)</b>				
<b>Library Hardware</b>	<b>Item Name</b>	<b>QTY</b>		
	<b>CP-8851-K9=</b>	18		
	<b>CP-BEKEM=</b>	2		
	<b>R-CBE6K-K9</b>	1		
	BE6K-SW-10.X	1		
	BE6K-UWL-STD	18		
	UCXN-10X-UWLSTD	18		
	BE6K-PAK	1		
	UCM-10X-UWLSTD	18		
<b>Library Smartnet (SN) Services</b>	<b>Item Name</b>	<b>QTY</b>		
	CON-ECMU-RCBE6KK	1		
	CON-ECMU-UCMUWLST	18		
<b>Library Pricing</b>		<b>Total</b>		
<b>Library Hardware Cost</b>				
<b>Library Smartnet Services Cost</b>				
<b>Implementation Cost (with Two Days of Support)</b>				
<b>Shipping &amp; Delivery</b>				
<b>Library Subtotal Cost</b>				
<b>After 1<sup>st</sup> Year SmartNet Services Cost (2nd Yr. Cost)</b>				
<b>BOH-OECD Hardware</b>	<b>Item Name</b>	<b>QTY</b>		
	<b>CP-8851-K9=</b>	18		
	<b>CP-BEKEM=</b>	2		
	<b>R-CBE6K-K9</b>	1		
	BE6K-SW-10.X	1		
	BE6K-UWL-STD	18		
	UCXN-10X-UWLSTD	18		
	BE6K-PAK	1		
	UCM-10X-UWLSTD	18		

<b>BOH-OECD Smartnet (SN) Services</b>	<b>Item Name</b>	<b>QTY</b>		
	CON-ECMU-RCBE6KK	1		
	CON-ECMU-UCMUWLST	18		
<b>BOH-OECD Pricing</b>		<b>Total</b>		
<b>BOH-OECD Hardware Cost</b>				
<b>BOH-OECD Smartnet Services Cost</b>				
<b>Implementation Cost (with Two Days of Support)</b>				
<b>Shipping &amp; Delivery</b>				
<b>BOH-OECD Subtotal Cost</b>				
<b>After 1<sup>st</sup> Year SmartNet Services Cost (2nd Yr. Cost)</b>				
<b>DPW Hardware</b>	<b>Item Name</b>	<b>QTY</b>		
	<b>CP-8851-K9=</b>	26		
	<b>CP-7925G-A-K9</b>	3		
	<b>ISR4321-V/K9</b>	1		
	SL-4320-IPB-K9	1		
	SL-4320-UC-K9	1		
	PVDM4-32	1		
	PWR-4320-AC	1		
	CAB-AC-C5	1		
	MEM-4320-4G	1		
	MEM-FLSH-4G	1		
	SISR4300UK9-314S	1		
	FL-SRST	1		
	FL-CME-SRST-25	1		
	NIM-4FXO	1		
	NIM-4FXS	1		
	<b>CP-BATT-7925G-EXT=</b>	3		
	<b>CP-DSKCH-7925G-BUN</b>	3		
	CP-DSKCH-7925G	3		
	CP-PWR-DC7925G-NA	3		
	<b>R-CBE6K-K9</b>	1		
	BE6K-SW-10.X	1		
	BE6K-UWL-STD	29		
	UCXN-10X-UWLSTD	29		
	BE6K-PAK	1		
	UCM-10X-UWLSTD	29		
<b>DPW Smartnet (SN) Services</b>		<b>QTY</b>		
	CON-SNT-ISR4321V	1		
	CON-ECMU-RCBE6KK	1		
	CON-ECMU-UCMUWLST	29		
<b>DPW Pricing</b>		<b>Total</b>		
<b>DPW Hardware Cost</b>				

<b>DPW Smartnet Services Cost</b>				
<b>Implementation Cost (with Two Days of Support)</b>				
<b>Shipping &amp; Delivery</b>				
<b>DPW Subtotal Cost</b>				
<b>After 1<sup>st</sup> Year SmartNet Services Cost (2nd Yr. Cost)</b>				
<b>PCPG Hardware</b>	<b>Item Name</b>	<b>QTY</b>		
	<b>CP-8851-K9=</b>	5		
	<b>R-CBE6K-K9</b>	1		
	BE6K-SW-10.X	1		
	BE6K-UWL-STD	5		
	UCXN-10X-UWLSTD	5		
	BE6K-PAK	1		
	UCM-10X-UWLSTD	5		
<b>PCPG Smartnet (SN) Services</b>	<b>Item Name</b>			
	CON-ECMU-RCBE6KK	1		
	CON-ECMU-UCMUWLST	5		
<b>PCPG Pricing</b>		<b>Total</b>		
<b>PCPG Hardware Cost</b>				
<b>PCPG Services Cost</b>				
<b>Implementation Cost (with Two Days of Support)</b>				
<b>Shipping &amp; Delivery</b>				
<b>PCPG Subtotal Cost</b>				
<b>After 1<sup>st</sup> Year SmartNet Services Cost (2nd Yr. Cost)</b>				
<b>Nursing Home Hardware</b>	<b>Item Name</b>	<b>QTY</b>		
	<b>CP-8851-K9=</b>	25		
	<b>CP-BEKEM=</b>	2		
	<b>ISR4321-V/K9</b>	1		
	SL-4320-IPB-K9	1		
	SL-4320-UC-K9	1		
	PVDM4-32	1		
	PWR-4320-AC	1		
	CAB-AC-C5	1		
	MEM-4320-4G	1		
	MEM-FLSH-4G	1		
	SISR4300UK9-314S	1		
	FL-SRST	1		
	FL-CME-SRST-25	1		
	NIM-4FXO	1		
	NIM-4FXS	1		
	<b>R-CBE6K-K9</b>	1		
	BE6K-SW-10.X	1		
	BE6K-UWL-STD	25		

	UCXN-10X-UWLSTD	25		
	BE6K-PAK	1		
	UCM-10X-UWLSTD	25		
<b>Nursing Home Smartnet (SN) Services</b>		<b>QTY</b>		
	CON-SNT-ISR4321V	1		
	CON-ECMU-RCBE6KK	1		
	CON-ECMU-UCMUWLST	25		
<b>Nursing Home Pricing</b>		<b>Total</b>		
<b>Nursing Home Hardware Cost</b>				
<b>Nursing Home Smartnet Services Cost</b>				
<b>Implementation Cost (with Two Days of Support)</b>				
<b>Shipping &amp; Delivery</b>				
<b>Nursing Home Subtotal Cost</b>				
<b>After 1<sup>st</sup> Year SmartNet Services Cost (2nd Yr. Cost)</b>				
<b>Retirement Hardware</b>	<b>Item Name</b>	<b>QTY</b>		
	<b>CP-8851-K9=</b>	3		
	<b>R-CBE6K-K9</b>	1		
	BE6K-SW-10.X	1		
	BE6K-UWL-STD	3		
	UCXN-10X-UWLSTD	3		
	BE6K-PAK	1		
	UCM-10X-UWLSTD	3		
<b>Retirement Smartnet (SN) Services</b>	<b>Item Name</b>			
	CON-ECMU-RCBE6KK	1		
	CON-ECMU-UCMUWLST	3		
<b>Retirement Pricing</b>		<b>Total</b>		
<b>Retirement Hardware Cost</b>				
<b>Retirement Services Cost</b>				
<b>Implementation Cost (with Two Days of Support)</b>				
<b>Shipping &amp; Delivery</b>				
<b>Retirement Subtotal Cost</b>				
<b>After 1<sup>st</sup> Year SmartNet Services Cost (2nd Yr. Cost)</b>				
<b>Planning Hardware</b>	<b>Item Name</b>	<b>QTY</b>		
	<b>CP-8851-K9=</b>	5		
	<b>R-CBE6K-K9</b>	1		
	BE6K-SW-10.X	1		
	BE6K-UWL-STD	5		
	UCXN-10X-UWLSTD	5		
	BE6K-PAK	1		
	UCM-10X-UWLSTD	5		
<b>Planning Smartnet (SN) Services</b>	<b>Item Name</b>			



	CON-ECMU-RCBE6KK	1		
	CON-ECMU-UCMUWLST	5		
<b>Planning Pricing</b>		<b>Total</b>		
<b>Planning Hardware Cost</b>				
<b>Planning Services Cost</b>				
<b>Implementation Cost (with Two Days of Support)</b>				
<b>Shipping &amp; Delivery</b>				
<b>Planning Subtotal Cost</b>				
<b>After 1<sup>st</sup> Year SmartNet Services Cost (2nd Yr. Cost)</b>				
<b>Airport Hardware</b>	<b>Item Name</b>	<b>QTY</b>		
	<b>CP-8851-K9=</b>	2		
	<b>R-CBE6K-K9</b>	1		
	BE6K-SW-10.X	1		
	BE6K-UWL-STD	2		
	UCXN-10X-UWLSTD	2		
	BE6K-PAK	1		
	UCM-10X-UWLSTD	2		
<b>Airport Services</b>	<b>Item Name</b>			
	CON-ECMU-RCBE6KK	1		
	CON-ECMU-UCMUWLST	2		
<b>Airport Pricing</b>		<b>Total</b>		
<b>Airport Hardware Cost</b>				
<b>Airport Services Cost</b>				
<b>Implementation Cost (with Two Days of Support)</b>				
<b>Shipping &amp; Delivery</b>				
<b>Airport Subtotal Cost</b>				
<b>After 1<sup>st</sup> Year SmartNet Services Cost (2nd Yr. Cost)</b>				
<b>Human Services Hardware</b>	<b>Item Name</b>	<b>QTY</b>		
	<b>CP-8851-K9=</b>	14		
	<b>R-CBE6K-K9</b>	1		
	BE6K-SW-10.X	1		
	BE6K-UWL-STD	14		
	UCXN-10X-UWLSTD	14		
	BE6K-PAK	1		
	UCM-10X-UWLSTD	14		
<b>Human Services Smartnet (SN) Services</b>	<b>Item Name</b>			
	CON-ECMU-RCBE6KK	1		
	CON-ECMU-UCMUWLST	14		
<b>Human Services Pricing</b>		<b>Total</b>		
<b>Human Services Hardware Cost</b>				
<b>Human Services Services Cost</b>				
<b>Implementation Cost (with Two Days of Support)</b>				

<b>Shipping &amp; Delivery</b>				
<b>Human Services Subtotal Cost</b>				
<b>After 1<sup>st</sup> Year SmartNet Services Cost (2nd Yr. Cost)</b>				
<b>Animal Shelter Hardware</b>	<b>Item Name</b>	<b>QTY</b>		
	<b>CP-8851-K9=</b>	3		
	<b>R-CBE6K-K9</b>	1		
	BE6K-SW-10.X	1		
	BE6K-UWL-STD	3		
	UCXN-10X-UWLSTD	3		
	BE6K-PAK	1		
	UCM-10X-UWLSTD	3		
<b>Animal Shelter Smartnet (SN) Services</b>	<b>Item Name</b>			
	CON-ECMU-RCBE6KK	1		
	CON-ECMU-UCMUWLST	3		
<b>Animal Shelter Pricing</b>		<b>Total</b>		
<b>Animal Shelter Hardware Cost</b>				
<b>Animal Shelter Services Cost</b>				
<b>Implementation Cost (with Two Days of Support)</b>				
<b>Shipping &amp; Delivery</b>				
<b>Animal Shelter Subtotal Cost</b>				
<b>After 1<sup>st</sup> Year SmartNet Services Cost (2nd Yr. Cost)</b>				
<b>Water Treatment Hardware</b>	<b>Item Name</b>	<b>QTY</b>	<b>Unit Price</b>	<b>Extended Price</b>
	<b>CP-8851-K9=</b>	10		
	<b>CP-7925G-A-K9</b>	3		
	<b>CP-BATT-7925G-EXT=</b>	3		
	<b>CP-DSKCH-7925G-BUN</b>	3		
	CP-DSKCH-7925G	3		
	CP-PWR-DC7925G-NA	3		
	<b>ISR4331-V/K9</b>	1		
	SL-4330-IPB-K9	1		
	SL-4330-UC-K9	1		
	PVDM4-32U64	1		
	PWR-4330-AC	1		
	CAB-AC-C5	1		
	MEM-4330-4G	1		
	MEM-FLSH-4G	1		
	SISR4300UK9-314S	1		
	FL-CUBEE-5	2		
	FL-CUBEE-25-RED	2		
	NIM-4FXO	1		
	NIM-4FXS	1		

	<b>R-CBE6K-K9</b>	1		
	BE6K-SW-10.X	1		
	BE6K-UWL-STD	13		
	UCXN-10X-UWLSTD	13		
	BE6K-PAK	1		
	UCM-10X-UWLSTD	13		
<b>Water Treatment Smartnet (SN) Services</b>	<b>Item Name</b>	<b>QTY</b>		
	CON-SNT-ISR4331V	1		
	CON-SSSNT-FLCUBE25	2		
	CON-ECMU-RCBE6KK	1		
	CON-ECMU-UCMUWLST	13		
<b>Water Treatment Pricing</b>		<b>Total</b>		
<b>Water Treatment Hardware Cost</b>				
<b>Water Treatment Smartnet Services Cost</b>				
<b>Implementation Cost (with Two Days of Support)</b>				
<b>Shipping &amp; Delivery</b>				
<b>Water Treatment Subtotal Cost</b>				
<b>After 1<sup>st</sup> Year SmartNet Services Cost (2nd Yr. Cost)</b>				
<b>Police HQ Hardware</b>	<b>Item Name</b>	<b>QTY</b>	<b>Unit Price</b>	<b>Extended Price</b>
	<b>CP-8851-K9=</b>	60		
	<b>CP-BEKEM=</b>	13		
	<b>CP-8800-WMK=</b>	8		
	<b>ISR4351-V/K9</b>	1		
	SL-4350-IPB-K9	1		
	SL-4350-UC-K9	1		
	PVDM4-64	1		
	PWR-4450-AC	1		
	CAB-AC-C5	1		
	MEM-4300-4G	1		
	MEM-FLSH-4G	1		
	SISR4300UK9-316S	1		
	FL-CUBEE-5	2		
	FL-CUBEE-25-RED	2		
	NIM-4FXO	2		
	NIM-2FXS/4FXO	1		
	<b>R-CBE6K-K9</b>	1		
	BE6K-SW-10.X	1		
	BE6K-UWL-STD	60		
	UCXN-10X-UWLSTD	60		
	BE6K-PAK	1		
	UCM-10X-UWLSTD	60		
	<b>BE6H-M4-K9=</b>	1		

	CAB-N5K6A-NA	2		
	BE6K-SW-10X11X-K9	1		
	VMW-VS6-HYPPLS-K9	1		
	CIT-PSU1-770W	2		
	CIT-MR-1X081RU-A	6		
	CIT-CPU-E52630D	2		
	CIT-PCIE-IRJ45	1		
	CIT-HD300G10K12G	8		
	R2XX-RAID5	1		
	CIT-MRAID12G	1		
	CIT-MRAID12G-1GB	1		
	<b>VMW-VSP-STD-1S=</b>	2		
	UCS-VMW-TERMS	2		
	<b>WS-C3560CX-12PC-S</b>	8		
<b>Police HQ Smartnet (SN) Services</b>	<b>Item Name</b>	<b>QTY</b>		
	CON-SNT-ISR4351V	1		
	CON-ECMU-RCBE6KK	1		
	CON-SSSNT-FLCUBE25	2		
	CON-ECMU-UCMUWLST	60		
	CON-SNT-BE6HM4K9	1		
	VMW-VSP-STD-1YR	2		
	CON-SNT-WSC312PC	8		
<b>Police HQ Pricing</b>		<b>Total</b>		
<b>Police HQ Hardware Cost</b>				
<b>Police HQ Smartnet Services Cost</b>				
<b>Implementation Cost (with Two Days of Support)</b>				
<b>Shipping &amp; Delivery</b>				
<b>Police HQ Subtotal Cost</b>				
<b>After 1<sup>st</sup> Year SmartNet Services Cost (2nd Yr. Cost)</b>				
<b>Fire HQ Hardware</b>	<b>Item Name</b>	<b>QTY</b>		
	<b>CP-8851-K9=</b>	17		
	<b>CP-BEKEM=</b>	6		
	<b>CP-8800-WMK=</b>	6		
	<b>ISR4321-V/K9</b>	1		
	SL-4320-IPB-K9	1		
	SL-4320-UC-K9	1		
	PVDM4-32	1		
	PWR-4320-AC	1		
	CAB-AC-C5	1		
	MEM-4320-4G	1		
	MEM-FLSH-4G	1		
	SISR4300UK9-314S	1		
	FL-SRST	1		

	FL-CME-SRST-25	1		
	NIM-4FXO	1		
	NIM-4FXS	1		
	<b>R-CBE6K-K9</b>	1		
	BE6K-SW-10.X	1		
	BE6K-UWL-STD	17		
	UCXN-10X-UWLSTD	17		
	BE6K-PAK	1		
	UCM-10X-UWLSTD	17		
<b>Fire HQ Smartnet (SN) Services</b>		<b>QTY</b>		
	CON-SNT-ISR4321V	1		
	CON-ECMU-RCBE6KK	1		
	CON-ECMU-UCMUWLST	17		
<b>Fire HQ Pricing</b>		<b>Total</b>		
<b>Fire HQ Hardware Cost</b>				
<b>Fire HQ Smartnet Services Cost</b>				
<b>Implementation Cost (with Two Days of Support)</b>				
<b>Shipping &amp; Delivery</b>				
<b>Fire HQ Subtotal Cost</b>				
<b>After 1<sup>st</sup> Year SmartNet Services Cost (2nd Yr. Cost)</b>				
<b>ET Fire Hardware</b>	<b>Item Name</b>	<b>QTY</b>	<b>Unit Price</b>	<b>Extended Price</b>
	<b>CP-8851-K9=</b>	8		
	<b>CP-8800-WMK=</b>	1		
	<b>R-CBE6K-K9</b>	1		
	BE6K-SW-10.X	1		
	BE6K-UWL-STD	8		
	UCXN-10X-UWLSTD	8		
	BE6K-PAK	1		
	UCM-10X-UWLSTD	8		
	BE6K-UCL-ESS	2		
	UCM-10X-ESS-UCL	2		
	<b>VG202XM</b>	1		
	SVG2XAISK9-15403M	1		
	CAB-AC	1		
	CAB-ETH-S-RJ45	1		
	PWR-30W-AC	1		
<b>ET Fire Smartnet (SN) Services</b>		<b>QTY</b>		
	CON-ECMU-RCBE6KK	1		
	CON-ECMU-UCMUWLST	8		
	CON-ECMU-UCMESSUC	2		
	CON-SNT-VG202XM	1		

ET Fire Pricing		Total		
ET Fire Hardware Cost				
ET Fire Smartnet Services Cost				
Implementation Cost (with Two Days of Support)				
Shipping & Delivery				
ET Fire Subtotal Cost				
After 1 <sup>st</sup> Year SmartNet Services Cost (2nd Yr. Cost)				
Bay St Fire Hardware	Item Name	QTY	Unit Price	Extended Price
	CP-8851-K9=	9		
	CP-8800-WMK=	1		
	R-CBE6K-K9	1		
	BE6K-SW-10.X	1		
	BE6K-UWL-STD	9		
	UCXN-10X-UWLSTD	9		
	BE6K-PAK	1		
	UCM-10X-UWLSTD	9		
	BE6K-UCL-ESS	2		
	UCM-10X-ESS-UCL	2		
	VG202XM	1		
	SVG2XAISK9-15403M	1		
	CAB-AC	1		
	CAB-ETH-S-RJ45	1		
	PWR-30W-AC	1		
Bay St Fire Smartnet (SN) Services		QTY		
	CON-ECMU-RCBE6KK	1		
	CON-ECMU-UCMUWLST	9		
	CON-ECMU-UCMESSUC	2		
	CON-SNT-VG202XM	1		
Bay St Fire Pricing		Total		
Bay St Fire Hardware Cost				
Bay St Fire Smartnet Services Cost				
Implementation Cost (with Two Days of Support)				
Shipping & Delivery				
Bay St Fire Subtotal Cost				
After 1 <sup>st</sup> Year Smartnet Services Cost (2nd Yr. Cost)				
Oakland Fire Hardware	Item Name	QTY	Unit Price	Extended Price
	CP-8851-K9=	9		
	CP-8800-WMK=	3		
	R-CBE6K-K9	1		
	BE6K-SW-10.X	1		
	BE6K-UWL-STD	9		

	UCXN-10X-UWLSTD	9		
	BE6K-PAK	1		
	UCM-10X-UWLSTD	9		
	BE6K-UCL-ESS	2		
	UCM-10X-ESS-UCL	2		
	<b>VG202XM</b>	1		
	SVG2XAISK9-15403M	1		
	CAB-AC	1		
	CAB-ETH-S-RJ45	1		
	PWR-30W-AC	1		
<b>Oakland Fire Smartnet (SN) Services</b>		<b>QTY</b>		
	CON-ECMU-RCBE6KK	1		
	CON-ECMU-UCMUWLST	9		
	CON-ECMU-UCMESSUC	2		
	CON-SNT-VG202XM	1		
<b>Oakland Fire Pricing</b>		<b>Total</b>		
<b>Oakland Fire Hardware Cost</b>				
<b>Oakland Fire Smartnet Services Cost</b>				
<b>Implementation Cost (with Two Days of Support)</b>				
<b>Shipping &amp; Delivery</b>				
<b>Oakland Subtotal Cost</b>				
<b>After 1<sup>st</sup> Year SmartNet Services Cost (2nd Yr. Cost)</b>				
<b>Fire Prevention Hardware</b>	<b>Item Name</b>	<b>QTY</b>	<b>Unit Price</b>	<b>Extended Price</b>
	<b>CP-8851-K9=</b>	6		
	<b>R-CBE6K-K9</b>	1		
	BE6K-SW-10.X	1		
	BE6K-UWL-STD	6		
	UCXN-10X-UWLSTD	6		
	BE6K-PAK	1		
	UCM-10X-UWLSTD	6		
	BE6K-UCL-ESS	2		
	UCM-10X-ESS-UCL	2		
	<b>VG202XM</b>	1		
	SVG2XAISK9-15403M	1		
	CAB-AC	1		
	CAB-ETH-S-RJ45	1		
	PWR-30W-AC	1		
<b>Fire Prevention Smartnet (SN) Services</b>		<b>QTY</b>		
	CON-SNT-ISR4321V	1		
	CON-ECMU-RCBE6KK	1		
	CON-ECMU-UCMUWLST	6		

	CON-ECMU-UCMESSUC	2		
	CON-SNT-VG202XM	1		
<b>Fire Prevention Pricing</b>		<b>Total</b>		
<b>Fire Prevention Hardware Cost</b>				
<b>Fire Prevention Smartnet Services Cost</b>				
<b>Implementation Cost (with Two Days of Support)</b>				
<b>Shipping &amp; Delivery</b>				
<b>Fire Prevention Subtotal Cost</b>				
<b>After 1<sup>st</sup> Year SmartNet Services Cost (2nd Yr. Cost)</b>				
<b>Weir Fire Hardware</b>	<b>Item Name</b>	<b>QTY</b>	<b>Unit Price</b>	<b>Extended Price</b>
	<b>CP-8851-K9=</b>	8		
	<b>CP-8800-WMK=</b>	2		
	<b>R-CBE6K-K9</b>	1		
	BE6K-SW-10.X	1		
	BE6K-UWL-STD	8		
	UCXN-10X-UWLSTD	8		
	BE6K-PAK	1		
	UCM-10X-UWLSTD	8		
	BE6K-UCL-ESS	2		
	UCM-10X-ESS-UCL	2		
	<b>VG202XM</b>	1		
	SVG2XAISK9-15403M	1		
	CAB-AC	1		
	CAB-ETH-S-RJ45	1		
	PWR-30W-AC	1		
<b>Weir Fire Smartnet (SN) Services</b>		<b>QTY</b>		
	CON-ECMU-RCBE6KK	1		
	CON-ECMU-UCMUWLST	8		
	CON-ECMU-UCMESSUC	2		
	CON-SNT-VG202XM	1		
<b>Weir Fire Pricing</b>		<b>Total</b>		
<b>Weir Fire Hardware Cost</b>				
<b>Weir Fire Smartnet Services Cost</b>				
<b>Implementation Cost (with Two Days of Support)</b>				
<b>Shipping &amp; Delivery</b>				
<b>Weir Fire Subtotal Cost</b>				
<b>After 1<sup>st</sup> Year SmartNet Services Cost (2nd Yr. Cost)</b>				
<b>West Water (DC) Hardware</b>	<b>Item Name</b>	<b>QTY</b>		
	<b>BE6H-M4-K9=</b>	1		
	CAB-9K12A-NA	2		
	BE6K-SW-10X11X-K9	1		



	VMW-VS6-HYPPLS-K9	1		
	CIT-PSU1-770W	2		
	CIT-MR-1X081RU-A	6		
	CIT-CPU-E52630D	2		
	CIT-PCIE-IRJ45	1		
	CIT-HD300G10K12G	8		
	R2XX-RAID5	1		
	CIT-MRAID12G	1		
	CIT-MRAID12G-1GB	1		
	<b>VMW-VSP-STD-1S=</b>	2		
	UCS-VMW-TERMS	2		
	LIC-EXP-E-PAK	1		
	LIC-EXP-GW	4		
	LIC-EXP-E	2		
	LIC-EXP-TURN	2		
	LIC-EXP-AN	2		
	LIC-SW-EXP-K9	4		
	LIC-EXP-SERIES	4		
	EXPWY-VE-E-K9	2		
	BE6K-PAK	1		
	SW-EXP-8.X-K9	1		
	EXPWY-VE-C-K9	2		
	LIC-EXP-DSK	350		
<b>West Water (DC) Smartnet (SN) Services</b>	<b>Item Name</b>	<b>QTY</b>		
	CON-SNT-BE6HM4K9	1		
	VMW-VSP-STD-1YR	2		
<b>West Water (DC) Pricing</b>		<b>Total</b>		
<b>West Water (DC) Hardware Cost</b>				
<b>West Water (DC) Services Cost</b>				
<b>Implementation Cost (with Two Days of Support)</b>				
<b>Shipping &amp; Delivery</b>				
<b>West Water (DC) Subtotal Cost</b>				
<b>After 1<sup>st</sup> Year SmartNet Services Cost (2nd Yr. Cost)</b>				
<b>Cisco Emergency Responder (Core)</b>				
	R-EMRGNCY-RSPNDR	1		
	ER10-USR-1	350		
	ER10-PAK	1		
<b>Cisco Emergency Responder Smartnet (SN) Services</b>				
	CON-ECMU-EMRGNCY	1		
	CON-ECMU-ER10USR1	350		
	ER10-SW-K9	1		

Software and Maintenance				
Cisco Emergency Responder Pricing		Total		
Emergency Responder Software & Implementation Cost				
Emergency Responder Smartnet Services Cost				
Subtotal Cost				
ISI Verba Recording (Core)				
	V4-PL-S-L	1		
	V4-R-CP1-L	1		
ISI Verba Recording Services				
	V4-PL-S-S1Y	1		
	V4-R-CP1-S1Y	40		
ISI Verba Recording Pricing		Total		
Verba Software & Implementation Cost				
Verba Services/Maintenance Cost				
Subtotal Cost				
Informacast & Call Aware (Core)		QTY	Unit Price	Extended Price
	IPTA-IC250	1		
Informacast & Call Aware Services				
	IPTA-IC50	2		
Informacast & Call Aware Pricing		Total		
Informacast Software & Implementation Cost				
Informacast Services/Maintenance Cost				
Subtotal Cost				
Variphy Call Accounting		QTY	Unit Price	Extended Price
	Variphy - INST-ENT-350	1		
Variphy Call Accounting Services				
	INST-SMUU-350	1		
Variphy Call Accounting Pricing		Total		
Call Accounting Software & Implementation Cost				
Call Accounting Services/Maintenance Cost				
Subtotal Cost				
Cisco Training		QTY	Unit Price	Extended Price
	TRN-CMA-UCA-5	1		
End User Training		Total		
Instructor / Train the Trainer (18.14.1)				
Administration Training (18.14.2)				
Provide End-User Training (18.14.3)				
Subtotal Cost				

## Pricing Summary and Managed Services

Managed Services (1Yr.)						
Site	Full Offering	Proactive	Reactive	Transitional	MACD	Other
Planning						
Library						
BOH-OECD						
DPW						
PCPG						
Retirement						
Water Treatment						
Airport						
City Hall						
Human Services						
Nursing Home						
Animal Shelter						
Police HQ						
Fire HQ						
ET Fire						
Bay St Fire						
Oakland Fire						
Fire Prevention						
Weir Fire						
<b>Total</b>						

## Summary Pricing Per Site

	Hardware Cost/BOM	12 month Smartnet	Implement w/2 day	Shipping	Total	Year 2 Smartnet
Planning						
Library						
BOH- OECD						
DPW						
PCPG						
Retirement						
Water Treatment						
Airport						
City Hall						
Human Services						
Nursing Home						
Animal Shelter						
Police HQ						
Fire HQ						
ET Fire						
Bay St Fire						
Oakland Fire						
Fire Prevention						
Weir Fire						
West Water (DC)						
<b>Totals</b>						

CER:	1 Year	3 Years	5 Years
Software:			
Smartnet:			
ISI Verba:	1 Year	3 Years	5 Years
Software:			
Support:			
Informacast:	1 Year	3 Years	5 Years
Software:			
Support:			
Variphy:	1 Year	3 Years	5 Years
Software:			
Support:			

Cisco Training		QTY	Unit Price	Extended Price
	TRN-CMA-UCA-5	1		
End User Training		Total		
Instructor / Train the Trainer (18.14.1)				
Administration Training (18.14.2)				
Provide End-User Training (18.14.3)				
Subtotal Cost				

\*Note: Vendor shall provide unit pricing and extended pricing in the Form of Bid. Unit pricing shall be valid for 6 months from issue of purchase order.

The undersigned shall furnish and deliver the equipment in \_\_\_\_days/weeks (cross out one) in accordance with IFB17-11, except as noted below. The undersigned hereby certifies that I have read and fully understand this IFB, including all instructions, contract documents, forms, certifications, bidding data, specifications and terms and conditions for undertaking this contract, and shall conform to all requirements or take exception(s) as noted below.

1. **YES** (accept as is)

By\_\_\_\_\_ (Signature of Authorized Officer)  
Title\_\_\_\_\_ (Printed Name and Title of Person Signing Bid)  
Company Name\_\_\_\_\_  
Address \_\_\_\_\_

2. **NO** (see exceptions below)

By\_\_\_\_\_ (Signature of Authorized Officer)  
Title\_\_\_\_\_ (Printed Name and Title of Person Signing Bid)  
Company Name\_\_\_\_\_  
Address \_\_\_\_\_

List of Exceptions: (Please make reference to page and paragraph number if taking any exceptions and attach additional sheets to this sheet).

## ANTI-COLLUSION CERTIFICATION

M.G.L. c. 40, s. 4B 1/2

The undersigned certifies under penalties of perjury that this Bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this section the word "Person" shall mean any natural person, joint venture, partnership, corporation, or other business or legal entity.

BY \_\_\_\_\_  
(Signature of Authorized Officer)

TITLE \_\_\_\_\_  
(Printed Name and Title of Person Signing Bid)

COMPANY \_\_\_\_\_

ADDRESS \_\_\_\_\_

## INDEMNIFICATION CERTIFICATION

The Bidder hereby agrees to defend and indemnify the Taunton Municipal Lighting Plant, their officers, officials, directors, administrators, boards, commissioners, agents, employees, servants, affiliates, customers and assigns, (the "indemnities") from and against any and all liability, losses, expenses, fees, (including reasonable attorneys fees), suits, actions, or causes of action the indemnities may suffer as a result of claims, demands, costs, or judgments arising out of the performance or non-performance of this Agreement, in implementation of the provisions of Article 22 of this IFB17-11, which is herewith incorporated as an integral part of this Indemnification Certificate by reference thereto.

By \_\_\_\_\_  
(Signature of Authorized Officer)

Date \_\_\_\_\_



TAX CERTIFICATION

M.G.L. c. 62, s. 49A

I certify under penalties of perjury that I, to my best knowledge and belief, have filed all state tax returns, paid all state taxes, and have complied with all the laws of the Commonwealth of Massachusetts relating to taxes.

\_\_\_\_\_  
\* Signature of Individual  
or Corporate Name (Mandatory)

\_\_\_\_\_  
By: Corporate Officer  
(Mandatory, if Applicable)

\*\* Social Security # (Voluntary)  
or Federal Identification Number

DATE: \_\_\_\_\_

NAME OF AUTHORIZED OFFICIAL: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

TELEPHONE: \_\_\_\_\_

TAX IDENTIFICATION NO.: \_\_\_\_\_

\* Approval of a contract or other agreement will not be granted unless the applicant signs this certification.

\*\* Your Social Security number will be furnished to the Massachusetts Department of Revenue to determine whether you have met tax filing or tax payment obligations. Providers who fail to correct their non-filing or delinquency will not have a contract or other agreement issued, renewed, or extended. This request is made under the authority of Massachusetts General Law, M.G.L. c. 62, s. 49A.

**RECEIPT OF NUMBERED ADDENDA**

The undersigned certifies and acknowledges the receipt of the following Numbered Addenda:

Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_

Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_

Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_

**OR:** ( ) No Numbered Addenda received.

By \_\_\_\_\_  
(Signature of Authorized Officer)

Title \_\_\_\_\_  
Printed Name and Title of Person Signing Bid)

Company Name \_\_\_\_\_

Address \_\_\_\_\_

**BIDDERS MUST CHECK OFF ALL BLOCKS AS APPROPRIATE**  
**AND PROVIDE A REPLY FOR EACH OF THE ITEMS**

I have included in my Bid Proposal the following items:	YES / NO
1. IFB Acceptance page (page number 54)	___ / ___
2. Anti-Collusion Certification	___ / ___
3. Indemnification Certification	___ / ___
4. Tax Certification	___ / ___
5. Insurance Certification	___ / ___
6. Receipt of Numbered Addenda	___ / ___

By \_\_\_\_\_  
(Signature of Authorized Officer)

Title \_\_\_\_\_  
(Printed name and title of person signing Bid)

Company Name \_\_\_\_\_

Address \_\_\_\_\_

Telephone/Fax Numbers \_\_\_\_\_



CHARLES D. BAKER  
Governor

KARYN E. POLITO  
Lt. Governor

THE COMMONWEALTH OF MASSACHUSETTS  
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT  
DEPARTMENT OF LABOR STANDARDS

**Prevailing Wage Rates**

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

RONALD L. WALKER, II  
Secretary

WILLIAM D MCKINNEY  
Director

**Awarding Authority:** Taunton Municipal Lighting Plant Commission  
**Contract Number:** IFB17-11 **City/Town:** TAUNTON  
**Description of Work:** PROCURE AND IMPLEMENT CISCO UNIFIED COMMUNICATIONS AND ASSOCIATED COMPONENTS TO REPLACE OR EXPAND EXISTING SYSTEM.  
**Job Location:** 55 WEIR STREET, TAUNTON, MA

---

Information about Prevailing Wage Schedules for Awarding Authorities and Contractors

- This wage schedule applies only to the specific project referenced at the top of this page and uniquely identified by the "Wage Request Number" on all pages of this schedule.
- An Awarding Authority must request an updated wage schedule from the Department of Labor Standards ("DLS") if it has not opened bids or selected a contractor within 90 days of the date of issuance of the wage schedule. For CM AT RISK projects (bid pursuant to G.L. c.149A), the earlier of: (a) the execution date of the GMP Amendment, or (b) the bid for the first construction scope of work must be within 90-days of the wage schedule issuance date.
- The wage schedule shall be incorporated in any advertisement or call for bids for the project as required by M.G.L. c. 149, § 27. The wage schedule shall be made a part of the contract awarded for the project. The wage schedule must be posted in a conspicuous place at the work site for the life of the project in accordance with M.G.L. c. 149 § 27. The wages listed on the wage schedule must be paid to employees performing construction work on the project whether they are employed by the prime contractor, a filed sub-bidder, or any sub-contractor.
- All apprentices working on the project are required to be registered with the Massachusetts Department of Labor Standards, Division of Apprentice Standards (DLS/DAS). Apprentice must keep his/her apprentice identification card on his/her person during all work hours on the project. An apprentice registered with DAS may be paid the lower apprentice wage rate at the applicable step as provided on the prevailing wage schedule. **Any apprentice not registered with DLS/DAS regardless of whether or not they are registered with any other federal, state, local, or private agency must be paid the journeyworker's rate for the trade.**
- The wage rates will remain in effect for the duration of the project, except in the case of multi-year public construction projects. For construction projects lasting longer than one year, awarding authorities must request an updated wage schedule. Awarding authorities are required to request these updates no later than two weeks before the anniversary of the date the contract was executed by the awarding authority and the general contractor. For multi-year CM AT RISK projects, awarding authority must request an annual update no later than two weeks before the anniversary date, determined as the earlier of: (a) the execution date of the GMP Amendment, or (b) the execution date of the first amendment to permit procurement of construction services. Contractors are required to obtain the wage schedules from awarding authorities, and to pay no less than these rates to covered workers. The annual update requirement is not applicable to 27F "rental of equipment" contracts.
- Every contractor or subcontractor which performs construction work on the project is required to submit weekly payroll reports and a Statement of Compliance directly to the awarding authority by mail or email and keep them on file for three years. Each weekly payroll report must contain: the employee's name, address, occupational classification, hours worked, and wages paid. Do not submit weekly payroll reports to DLS. A sample of a payroll reporting form may be obtained at <http://www.mass.gov/dols/pw>.
- Contractors with questions about the wage rates or classifications included on the wage schedule have an affirmative obligation to inquire with DLS at (617) 626-6953.
- Employees not receiving the prevailing wage rate set forth on the wage schedule may report the violation to the Fair Labor Division of the office of the Attorney General at (617) 727-3465.
- Failure of a contractor or subcontractor to pay the prevailing wage rates listed on the wage schedule to all employees who perform construction work on the project is a violation of the law and subjects the contractor or subcontractor to civil and

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
<b>Construction</b>						
(2 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.15	\$10.91	\$10.89	\$0.00	\$53.95
(3 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.22	\$10.91	\$10.89	\$0.00	\$54.02
(4 & 5 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.34	\$10.91	\$10.89	\$0.00	\$54.14
ADS/SUBMERSIBLE PILOT <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2015	\$88.29	\$9.80	\$19.23	\$0.00	\$117.32
For apprentice rates see "Apprentice- PILE DRIVER"						
AIR TRACK OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2016	\$32.65	\$7.60	\$13.00	\$0.00	\$53.25
	06/01/2017	\$33.65	\$7.60	\$13.00	\$0.00	\$54.25
	12/01/2017	\$34.28	\$7.60	\$13.00	\$0.00	\$54.88
	06/01/2018	\$35.12	\$7.60	\$13.00	\$0.00	\$55.72
	12/01/2018	\$35.96	\$7.60	\$13.00	\$0.00	\$56.56
	06/01/2019	\$36.83	\$7.60	\$13.00	\$0.00	\$57.43
	12/01/2019	\$37.69	\$7.60	\$13.00	\$0.00	\$58.29
For apprentice rates see "Apprentice- LABORER"						
ASBESTOS WORKER (PIPES & TANKS) <i>HEAT &amp; FROST INSULATORS LOCAL 6 (SOUTHERN MASS)</i>	12/01/2016	\$33.90	\$11.50	\$7.10	\$0.00	\$52.50
	06/01/2017	\$34.90	\$11.50	\$7.10	\$0.00	\$53.50
	12/01/2017	\$35.90	\$11.50	\$7.10	\$0.00	\$54.50
	06/01/2018	\$36.90	\$11.50	\$7.10	\$0.00	\$55.50
	12/01/2018	\$37.90	\$11.50	\$7.10	\$0.00	\$56.50
	06/01/2019	\$38.90	\$11.50	\$7.10	\$0.00	\$57.50
	12/01/2019	\$39.90	\$11.50	\$7.10	\$0.00	\$58.50
	06/01/2020	\$40.90	\$11.50	\$7.10	\$0.00	\$59.50
	12/01/2020	\$41.90	\$11.50	\$7.10	\$0.00	\$60.50
ASPHALT RAKER <i>LABORERS - ZONE 2</i>	12/01/2016	\$32.15	\$7.60	\$13.00	\$0.00	\$52.75
	06/01/2017	\$33.15	\$7.60	\$13.00	\$0.00	\$53.75
	12/01/2017	\$33.78	\$7.60	\$13.00	\$0.00	\$54.38
	06/01/2018	\$34.62	\$7.60	\$13.00	\$0.00	\$55.22
	12/01/2018	\$35.46	\$7.60	\$13.00	\$0.00	\$56.06
	06/01/2019	\$36.33	\$7.60	\$13.00	\$0.00	\$56.93
	12/01/2019	\$37.19	\$7.60	\$13.00	\$0.00	\$57.79
For apprentice rates see "Apprentice- LABORER"						
ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$45.38	\$10.00	\$15.25	\$0.00	\$70.63
	06/01/2017	\$46.38	\$10.00	\$15.25	\$0.00	\$71.63
	12/01/2017	\$47.38	\$10.00	\$15.25	\$0.00	\$72.63
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BACKHOE/FRONT-END LOADER <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$45.38	\$10.00	\$15.25	\$0.00	\$70.63
	06/01/2017	\$46.38	\$10.00	\$15.25	\$0.00	\$71.63
	12/01/2017	\$47.38	\$10.00	\$15.25	\$0.00	\$72.63
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
BARCO-TYPE JUMPING TAMPER <i>LABORERS - ZONE 2</i>	12/01/2016	\$32.15	\$7.60	\$13.00	\$0.00	\$52.75
	06/01/2017	\$33.15	\$7.60	\$13.00	\$0.00	\$53.75
	12/01/2017	\$33.78	\$7.60	\$13.00	\$0.00	\$54.38
	06/01/2018	\$34.62	\$7.60	\$13.00	\$0.00	\$55.22
	12/01/2018	\$35.46	\$7.60	\$13.00	\$0.00	\$56.06
	06/01/2019	\$36.33	\$7.60	\$13.00	\$0.00	\$56.93
	12/01/2019	\$37.19	\$7.60	\$13.00	\$0.00	\$57.79
For apprentice rates see "Apprentice- LABORER"						
BLOCK PAVER, RAMMER / CURB SETTER <i>LABORERS - ZONE 2</i>	12/01/2016	\$32.65	\$7.60	\$13.00	\$0.00	\$53.25
	06/01/2017	\$33.65	\$7.60	\$13.00	\$0.00	\$54.25
	12/01/2017	\$34.28	\$7.60	\$13.00	\$0.00	\$54.88
	06/01/2018	\$35.12	\$7.60	\$13.00	\$0.00	\$55.72
	12/01/2018	\$35.96	\$7.60	\$13.00	\$0.00	\$56.56
	06/01/2019	\$36.83	\$7.60	\$13.00	\$0.00	\$57.43
	12/01/2019	\$37.69	\$7.60	\$13.00	\$0.00	\$58.29
For apprentice rates see "Apprentice- LABORER"						
BOILER MAKER <i>BOILERMAKERS LOCAL 29</i>	01/01/2017	\$42.92	\$6.97	\$16.21	\$0.00	\$66.10

**Apprentice - BOILERMAKER - Local 29**

**Effective Date -** 01/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	65	\$27.90	\$6.97	\$10.54	\$0.00	\$45.41
2	65	\$27.90	\$6.97	\$10.54	\$0.00	\$45.41
3	70	\$30.04	\$6.97	\$11.35	\$0.00	\$48.36
4	75	\$32.19	\$6.97	\$12.16	\$0.00	\$51.32
5	80	\$34.34	\$6.97	\$12.97	\$0.00	\$54.28
6	85	\$36.48	\$6.97	\$13.78	\$0.00	\$57.23
7	90	\$38.63	\$6.97	\$14.59	\$0.00	\$60.19
8	95	\$40.77	\$6.97	\$15.40	\$0.00	\$63.14

**Notes:**

**Apprentice to Journeyworker Ratio:1:5**

BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING) <i>BRICKLAYERS LOCAL 3 (FOXBORO)</i>	03/01/2017	\$48.66	\$10.75	\$18.62	\$0.00	\$78.03
---	------------	---------	---------	---------	--------	---------

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
----------------	----------------	-----------	--------	---------	------------------------------	------------

**Apprentice - BRICK/PLASTER/CEMENT MASON - Local 3 Foxboro**

**Effective Date -** 03/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.33	\$10.75	\$18.62	\$0.00	\$53.70
2	60	\$29.20	\$10.75	\$18.62	\$0.00	\$58.57
3	70	\$34.06	\$10.75	\$18.62	\$0.00	\$63.43
4	80	\$38.93	\$10.75	\$18.62	\$0.00	\$68.30
5	90	\$43.79	\$10.75	\$18.62	\$0.00	\$73.16

**Notes:**

**Apprentice to Journeyworker Ratio:1:5**

BULLDOZER/GRADER/SCRAPER <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$44.94	\$10.00	\$15.25	\$0.00	\$70.19
	06/01/2017	\$45.93	\$10.00	\$15.25	\$0.00	\$71.18
	12/01/2017	\$46.92	\$10.00	\$15.25	\$0.00	\$72.17
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
CAISSON & UNDERPINNING BOTTOM MAN <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2016	\$37.45	\$7.60	\$14.35	\$0.00	\$59.40
For apprentice rates see "Apprentice- LABORER"						
CAISSON & UNDERPINNING LABORER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2016	\$36.30	\$7.60	\$14.35	\$0.00	\$58.25
For apprentice rates see "Apprentice- LABORER"						
CAISSON & UNDERPINNING TOP MAN <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2016	\$36.30	\$7.60	\$14.35	\$0.00	\$58.25
For apprentice rates see "Apprentice- LABORER"						
CARBIDE CORE DRILL OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2016	\$32.15	\$7.60	\$13.00	\$0.00	\$52.75
	06/01/2017	\$33.15	\$7.60	\$13.00	\$0.00	\$53.75
	12/01/2017	\$33.78	\$7.60	\$13.00	\$0.00	\$54.38
	06/01/2018	\$34.62	\$7.60	\$13.00	\$0.00	\$55.22
	12/01/2018	\$35.46	\$7.60	\$13.00	\$0.00	\$56.06
	06/01/2019	\$36.33	\$7.60	\$13.00	\$0.00	\$56.93
	12/01/2019	\$37.19	\$7.60	\$13.00	\$0.00	\$57.79
For apprentice rates see "Apprentice- LABORER"						
CARPENTER <i>CARPENTERS -ZONE 2 (Eastern Massachusetts)</i>	03/01/2017	\$38.77	\$9.90	\$17.00	\$0.00	\$65.67
	09/01/2017	\$39.78	\$9.90	\$17.00	\$0.00	\$66.68
	03/01/2018	\$40.78	\$9.90	\$17.00	\$0.00	\$67.68
	09/01/2018	\$41.82	\$9.90	\$17.00	\$0.00	\$68.72
	03/01/2019	\$42.85	\$9.90	\$17.00	\$0.00	\$69.75

**Classification**

**Effective Date    Base Wage    Health    Pension    Supplemental  
Unemployment    Total Rate**

**Apprentice - CARPENTER - Zone 2 Eastern MA**

**Effective Date - 03/01/2017**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.39	\$9.90	\$1.63	\$0.00	\$30.92
2	60	\$23.26	\$9.90	\$1.63	\$0.00	\$34.79
3	70	\$27.14	\$9.90	\$12.11	\$0.00	\$49.15
4	75	\$29.08	\$9.90	\$12.11	\$0.00	\$51.09
5	80	\$31.02	\$9.90	\$13.74	\$0.00	\$54.66
6	80	\$31.02	\$9.90	\$13.74	\$0.00	\$54.66
7	90	\$34.89	\$9.90	\$15.37	\$0.00	\$60.16
8	90	\$34.89	\$9.90	\$15.37	\$0.00	\$60.16

**Effective Date - 09/01/2017**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.89	\$9.90	\$1.63	\$0.00	\$31.42
2	60	\$23.87	\$9.90	\$1.63	\$0.00	\$35.40
3	70	\$27.85	\$9.90	\$12.11	\$0.00	\$49.86
4	75	\$29.84	\$9.90	\$12.11	\$0.00	\$51.85
5	80	\$31.82	\$9.90	\$13.74	\$0.00	\$55.46
6	80	\$31.82	\$9.90	\$13.74	\$0.00	\$55.46
7	90	\$35.80	\$9.90	\$15.37	\$0.00	\$61.07
8	90	\$35.80	\$9.90	\$15.37	\$0.00	\$61.07

**Notes:**

**Apprentice to Journeyworker Ratio:1:5**

CEMENT MASONRY/PLASTERING	01/01/2017	\$41.14	\$12.20	\$19.41	\$1.30	\$74.05
BRICKLAYERS LOCAL 3 (FOXBORO)	07/01/2017	\$42.09	\$12.20	\$19.41	\$1.30	\$75.00
	01/01/2018	\$42.90	\$12.20	\$19.41	\$1.30	\$75.81
	07/01/2018	\$43.70	\$12.20	\$19.41	\$1.30	\$76.61
	01/01/2019	\$44.51	\$12.20	\$19.41	\$1.30	\$77.42
	07/01/2019	\$45.31	\$12.20	\$19.41	\$1.30	\$78.22
	01/01/2020	\$46.12	\$12.20	\$19.41	\$1.30	\$79.03



Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
----------------	----------------	-----------	--------	---------	---------------------------	------------

**Apprentice - CEMENT MASONRY/PLASTERING - Foxboro**

**Effective Date - 01/01/2017**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.57	\$12.20	\$12.41	\$0.00	\$45.18
2	60	\$24.68	\$12.20	\$14.41	\$1.30	\$52.59
3	65	\$26.74	\$12.20	\$15.41	\$1.30	\$55.65
4	70	\$28.80	\$12.20	\$16.41	\$1.30	\$58.71
5	75	\$30.86	\$12.20	\$17.41	\$1.30	\$61.77
6	80	\$32.91	\$12.20	\$18.41	\$1.30	\$64.82
7	90	\$37.03	\$12.20	\$19.41	\$1.30	\$69.94

**Effective Date - 07/01/2017**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.05	\$12.20	\$12.41	\$0.00	\$45.66
2	60	\$25.25	\$12.20	\$14.41	\$1.30	\$53.16
3	65	\$27.36	\$12.20	\$15.41	\$1.30	\$56.27
4	70	\$29.46	\$12.20	\$16.41	\$1.30	\$59.37
5	75	\$31.57	\$12.20	\$17.41	\$1.30	\$62.48
6	80	\$33.67	\$12.20	\$18.41	\$1.30	\$65.58
7	90	\$37.88	\$12.20	\$19.41	\$1.30	\$70.79

**Notes:**

Steps 3,4 are 500 hrs. All other steps are 1,000 hrs.

**Apprentice to Journeyworker Ratio:1:3**

CHAIN SAW OPERATOR	12/01/2016	\$32.15	\$7.60	\$13.00	\$0.00	\$52.75
LABORERS - ZONE 2	06/01/2017	\$33.15	\$7.60	\$13.00	\$0.00	\$53.75
	12/01/2017	\$33.78	\$7.60	\$13.00	\$0.00	\$54.38
	06/01/2018	\$34.62	\$7.60	\$13.00	\$0.00	\$55.22
	12/01/2018	\$35.46	\$7.60	\$13.00	\$0.00	\$56.06
	06/01/2019	\$36.33	\$7.60	\$13.00	\$0.00	\$56.93
	12/01/2019	\$37.19	\$7.60	\$13.00	\$0.00	\$57.79
For apprentice rates see "Apprentice- LABORER"						
CLAM SHELLS/SLURRY BUCKETS/HEADING MACHINES	12/01/2016	\$46.38	\$10.00	\$15.25	\$0.00	\$71.63
OPERATING ENGINEERS LOCAL 4	06/01/2017	\$47.38	\$10.00	\$15.25	\$0.00	\$72.63
	12/01/2017	\$48.38	\$10.00	\$15.25	\$0.00	\$73.63
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
COMPRESSOR OPERATOR	12/01/2016	\$31.17	\$10.00	\$15.25	\$0.00	\$56.42
OPERATING ENGINEERS LOCAL 4	06/01/2017	\$31.86	\$10.00	\$15.25	\$0.00	\$57.11
	12/01/2017	\$32.55	\$10.00	\$15.25	\$0.00	\$57.80
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
DELEADER (BRIDGE)	01/01/2017	\$51.41	\$7.85	\$16.10	\$0.00	\$75.36
PAINTERS LOCAL 35 - ZONE 2						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
----------------	----------------	-----------	--------	---------	---------------------------	------------

**Apprentice - PAINTER Local 35 - BRIDGES/TANKS**

**Effective Date - 01/01/2017**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.71	\$7.85	\$0.00	\$0.00	\$33.56
2	55	\$28.28	\$7.85	\$3.66	\$0.00	\$39.79
3	60	\$30.85	\$7.85	\$3.99	\$0.00	\$42.69
4	65	\$33.42	\$7.85	\$4.32	\$0.00	\$45.59
5	70	\$35.99	\$7.85	\$14.11	\$0.00	\$57.95
6	75	\$38.56	\$7.85	\$14.44	\$0.00	\$60.85
7	80	\$41.13	\$7.85	\$14.77	\$0.00	\$63.75
8	90	\$46.27	\$7.85	\$15.44	\$0.00	\$69.56

**Notes:**

Steps are 750 hrs.

**Apprentice to Journeyworker Ratio:1:1**

DEMO: ADZEMAN	12/01/2016	\$36.50	\$7.60	\$14.15	\$0.00	\$58.25
LABORERS - ZONE 2	06/01/2017	\$37.50	\$7.60	\$14.15	\$0.00	\$59.25
	12/01/2017	\$38.35	\$7.60	\$14.15	\$0.00	\$60.10
	06/01/2018	\$39.30	\$7.60	\$14.15	\$0.00	\$61.05
	12/01/2018	\$40.25	\$7.60	\$14.15	\$0.00	\$62.00
	06/01/2019	\$41.25	\$7.60	\$14.15	\$0.00	\$63.00
	12/01/2019	\$42.25	\$7.60	\$14.15	\$0.00	\$64.00
For apprentice rates see "Apprentice- LABORER"						
DEMO: BACKHOE/LOADER/HAMMER OPERATOR	12/01/2016	\$37.50	\$7.60	\$14.15	\$0.00	\$59.25
LABORERS - ZONE 2	06/01/2017	\$38.50	\$7.60	\$14.15	\$0.00	\$60.25
	12/01/2017	\$39.35	\$7.60	\$14.15	\$0.00	\$61.10
	06/01/2018	\$40.30	\$7.60	\$14.15	\$0.00	\$62.05
	12/01/2018	\$41.25	\$7.60	\$14.15	\$0.00	\$63.00
	06/01/2019	\$42.25	\$7.60	\$14.15	\$0.00	\$64.00
	12/01/2019	\$43.25	\$7.60	\$14.15	\$0.00	\$65.00
For apprentice rates see "Apprentice- LABORER"						
DEMO: BURNERS	12/01/2016	\$37.25	\$7.60	\$14.15	\$0.00	\$59.00
LABORERS - ZONE 2	06/01/2017	\$38.25	\$7.60	\$14.15	\$0.00	\$60.00
	12/01/2017	\$39.10	\$7.60	\$14.15	\$0.00	\$60.85
	06/01/2018	\$40.05	\$7.60	\$14.15	\$0.00	\$61.80
	12/01/2018	\$41.00	\$7.60	\$14.15	\$0.00	\$62.75
	06/01/2019	\$42.00	\$7.60	\$14.15	\$0.00	\$63.75
	12/01/2019	\$43.00	\$7.60	\$14.15	\$0.00	\$64.75
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
DEMO: CONCRETE CUTTER/SAWYER <i>LABORERS - ZONE 2</i>	12/01/2016	\$37.50	\$7.60	\$14.15	\$0.00	\$59.25
	06/01/2017	\$38.50	\$7.60	\$14.15	\$0.00	\$60.25
	12/01/2017	\$39.35	\$7.60	\$14.15	\$0.00	\$61.10
	06/01/2018	\$40.30	\$7.60	\$14.15	\$0.00	\$62.05
	12/01/2018	\$41.25	\$7.60	\$14.15	\$0.00	\$63.00
	06/01/2019	\$42.25	\$7.60	\$14.15	\$0.00	\$64.00
	12/01/2019	\$43.25	\$7.60	\$14.15	\$0.00	\$65.00
For apprentice rates see "Apprentice- LABORER"						
DEMO: JACKHAMMER OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2016	\$37.25	\$7.60	\$14.15	\$0.00	\$59.00
	06/01/2017	\$38.25	\$7.60	\$14.15	\$0.00	\$60.00
	12/01/2017	\$39.10	\$7.60	\$14.15	\$0.00	\$60.85
	06/01/2018	\$40.05	\$7.60	\$14.15	\$0.00	\$61.80
	12/01/2018	\$41.00	\$7.60	\$14.15	\$0.00	\$62.75
	06/01/2019	\$42.00	\$7.60	\$14.15	\$0.00	\$63.75
	12/01/2019	\$43.00	\$7.60	\$14.15	\$0.00	\$64.75
For apprentice rates see "Apprentice- LABORER"						
DEMO: WRECKING LABORER <i>LABORERS - ZONE 2</i>	12/01/2016	\$36.50	\$7.60	\$14.15	\$0.00	\$58.25
	06/01/2017	\$37.50	\$7.60	\$14.15	\$0.00	\$59.25
	12/01/2017	\$38.35	\$7.60	\$14.15	\$0.00	\$60.10
	06/01/2018	\$39.30	\$7.60	\$14.15	\$0.00	\$61.05
	12/01/2018	\$40.25	\$7.60	\$14.15	\$0.00	\$62.00
	06/01/2019	\$41.25	\$7.60	\$14.15	\$0.00	\$63.00
	12/01/2019	\$42.25	\$7.60	\$14.15	\$0.00	\$64.00
For apprentice rates see "Apprentice- LABORER"						
DIRECTIONAL DRILL MACHINE OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$44.94	\$10.00	\$15.25	\$0.00	\$70.19
	06/01/2017	\$45.93	\$10.00	\$15.25	\$0.00	\$71.18
	12/01/2017	\$46.92	\$10.00	\$15.25	\$0.00	\$72.17
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
DIVER <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2015	\$58.86	\$9.80	\$19.23	\$0.00	\$87.89
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2015	\$42.04	\$9.80	\$19.23	\$0.00	\$71.07
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2015	\$63.06	\$9.80	\$19.23	\$0.00	\$92.09
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER/SLURRY (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2015	\$88.23	\$9.80	\$19.23	\$0.00	\$117.26
For apprentice rates see "Apprentice- PILE DRIVER"						
ELECTRICIAN <i>ELECTRICIANS LOCAL 223</i>	09/01/2016	\$39.21	\$8.90	\$11.51	\$0.00	\$59.62

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
----------------	----------------	-----------	--------	---------	------------------------------	------------

**Apprentice - ELECTRICIAN - Local 223**

**Effective Date - 09/01/2016**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$15.68	\$0.00	\$0.47	\$0.00	\$16.15
2	42	\$16.47	\$0.00	\$0.49	\$0.00	\$16.96
3	45	\$17.64	\$8.90	\$0.53	\$0.00	\$27.07
4	48	\$18.82	\$8.90	\$3.42	\$0.00	\$31.14
5	50	\$19.61	\$8.90	\$3.55	\$0.00	\$32.06
6	55	\$21.57	\$8.90	\$3.83	\$0.00	\$34.30
7	60	\$23.53	\$8.90	\$4.12	\$0.00	\$36.55
8	65	\$25.49	\$8.90	\$4.39	\$0.00	\$38.78
9	70	\$27.45	\$8.90	\$4.68	\$0.00	\$41.03
10	75	\$29.41	\$8.90	\$4.96	\$0.00	\$43.27

**Notes:**

Steps are 750 hours

**Apprentice to Journeyworker Ratio:2:3\*\*\***

ELEVATOR CONSTRUCTOR	01/01/2017	\$55.86	\$15.28	\$15.71	\$0.00	\$86.85
<i>ELEVATOR CONSTRUCTORS LOCAL 4</i>						

**Apprentice - ELEVATOR CONSTRUCTOR - Local 4**

**Effective Date - 01/01/2017**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$27.93	\$15.28	\$0.00	\$0.00	\$43.21
2	55	\$30.72	\$15.28	\$15.71	\$0.00	\$61.71
3	65	\$36.31	\$15.28	\$15.71	\$0.00	\$67.30
4	70	\$39.10	\$15.28	\$15.71	\$0.00	\$70.09
5	80	\$44.69	\$15.28	\$15.71	\$0.00	\$75.68

**Notes:**

Steps 1-2 are 6 mos.; Steps 3-5 are 1 year

**Apprentice to Journeyworker Ratio:1:1**

ELEVATOR CONSTRUCTOR HELPER	01/01/2017	\$39.10	\$15.28	\$15.71	\$0.00	\$70.09
<i>ELEVATOR CONSTRUCTORS LOCAL 4</i>						

For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"

FENCE & GUARD RAIL ERECTOR	12/01/2016	\$32.15	\$7.60	\$13.00	\$0.00	\$52.75
<i>LABORERS - ZONE 2</i>						
	06/01/2017	\$33.15	\$7.60	\$13.00	\$0.00	\$53.75
	12/01/2017	\$33.78	\$7.60	\$13.00	\$0.00	\$54.38
	06/01/2018	\$34.62	\$7.60	\$13.00	\$0.00	\$55.22
	12/01/2018	\$35.46	\$7.60	\$13.00	\$0.00	\$56.06
	06/01/2019	\$36.33	\$7.60	\$13.00	\$0.00	\$56.93
	12/01/2019	\$37.19	\$7.60	\$13.00	\$0.00	\$57.79

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FIELD ENG.INST.PERSON-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	05/01/2017	\$42.15	\$10.00	\$15.25	\$0.00	\$67.40
	11/01/2017	\$42.88	\$10.00	\$15.25	\$0.00	\$68.13
	05/01/2018	\$43.59	\$10.00	\$15.25	\$0.00	\$68.84
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FIELD ENG.PARTY CHIEF-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	05/01/2017	\$43.61	\$10.00	\$15.25	\$0.00	\$68.86
	11/01/2017	\$44.34	\$10.00	\$15.25	\$0.00	\$69.59
	05/01/2018	\$45.06	\$10.00	\$15.25	\$0.00	\$70.31
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FIELD ENG.ROD PERSON-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	05/01/2017	\$22.41	\$10.00	\$15.25	\$0.00	\$47.66
	11/01/2017	\$22.83	\$10.00	\$15.25	\$0.00	\$48.08
	05/01/2018	\$23.26	\$10.00	\$15.25	\$0.00	\$48.51
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FIRE ALARM INSTALLER <i>ELECTRICIANS LOCAL 223</i>	09/01/2016	\$39.21	\$8.90	\$11.51	\$0.00	\$59.62
For apprentice rates see "Apprentice- ELECTRICIAN"						
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING <i>ELECTRICIANS</i> <i>LOCAL 223</i>	09/01/2016	\$33.33	\$8.90	\$9.78	\$0.00	\$52.01
For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"						
FIREMAN (ASST. ENGINEER) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$37.65	\$10.00	\$15.25	\$0.00	\$62.90
	06/01/2017	\$38.49	\$10.00	\$15.25	\$0.00	\$63.74
	12/01/2017	\$39.32	\$10.00	\$15.25	\$0.00	\$64.57
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FLAGGER & SIGNALER <i>LABORERS - ZONE 2</i>	12/01/2016	\$20.50	\$7.60	\$13.00	\$0.00	\$41.10
For apprentice rates see "Apprentice- LABORER"						
FLOORCOVERER <i>FLOORCOVERERS LOCAL 2168 ZONE 1</i>	03/01/2016	\$42.13	\$9.80	\$17.62	\$0.00	\$69.55

**Apprentice - FLOORCOVERER - Local 2168 Zone 1**

**Effective Date - 03/01/2016**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.07	\$9.80	\$1.79	\$0.00	\$32.66
2	55	\$23.17	\$9.80	\$1.79	\$0.00	\$34.76
3	60	\$25.28	\$9.80	\$12.25	\$0.00	\$47.33
4	65	\$27.38	\$9.80	\$12.25	\$0.00	\$49.43
5	70	\$29.49	\$9.80	\$14.04	\$0.00	\$53.33
6	75	\$31.60	\$9.80	\$14.04	\$0.00	\$55.44
7	80	\$33.70	\$9.80	\$15.83	\$0.00	\$59.33
8	85	\$35.81	\$9.80	\$15.83	\$0.00	\$61.44

**Notes:**

Steps are 750 hrs.

**Apprentice to Journeyworker Ratio:1:1**

FORK LIFT/CHERRY PICKER <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$45.38	\$10.00	\$15.25	\$0.00	\$70.63
	06/01/2017	\$46.38	\$10.00	\$15.25	\$0.00	\$71.63
	12/01/2017	\$47.38	\$10.00	\$15.25	\$0.00	\$72.63

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
GENERATOR/LIGHTING PLANT/HEATERS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$31.17	\$10.00	\$15.25	\$0.00	\$56.42
	06/01/2017	\$31.86	\$10.00	\$15.25	\$0.00	\$57.11
	12/01/2017	\$32.55	\$10.00	\$15.25	\$0.00	\$57.80
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) <i>GLAZIERS LOCAL 1333</i>	06/01/2016	\$35.58	\$10.70	\$8.25	\$0.00	\$54.53

**Apprentice - GLAZIER - Local 1333**

**Effective Date - 06/01/2016**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$17.79	\$10.70	\$1.00	\$0.00	\$29.49
2	56	\$20.01	\$10.70	\$1.00	\$0.00	\$31.71
3	63	\$22.24	\$10.70	\$1.50	\$0.00	\$34.44
4	69	\$24.46	\$10.70	\$1.50	\$0.00	\$36.66
5	75	\$26.69	\$10.70	\$2.00	\$0.00	\$39.39
6	81	\$28.91	\$10.70	\$2.00	\$0.00	\$41.61
7	88	\$31.13	\$10.70	\$8.00	\$0.00	\$49.83
8	94	\$33.36	\$10.70	\$8.00	\$0.00	\$52.06

**Notes:**

**Apprentice to Journeyworker Ratio:1:3**

HOISTING ENGINEER/CRANES/GRADALLS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$45.38	\$10.00	\$15.25	\$0.00	\$70.63
	06/01/2017	\$46.38	\$10.00	\$15.25	\$0.00	\$71.63
	12/01/2017	\$47.38	\$10.00	\$15.25	\$0.00	\$72.63

**Apprentice - OPERATING ENGINEERS - Local 4**

**Effective Date -** 12/01/2016

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$24.96	\$10.00	\$0.00	\$0.00	\$34.96
2	60	\$27.23	\$10.00	\$15.25	\$0.00	\$52.48
3	65	\$29.50	\$10.00	\$15.25	\$0.00	\$54.75
4	70	\$31.77	\$10.00	\$15.25	\$0.00	\$57.02
5	75	\$34.04	\$10.00	\$15.25	\$0.00	\$59.29
6	80	\$36.30	\$10.00	\$15.25	\$0.00	\$61.55
7	85	\$38.57	\$10.00	\$15.25	\$0.00	\$63.82
8	90	\$40.84	\$10.00	\$15.25	\$0.00	\$66.09

**Effective Date -** 06/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$25.51	\$10.00	\$0.00	\$0.00	\$35.51
2	60	\$27.83	\$10.00	\$15.25	\$0.00	\$53.08
3	65	\$30.15	\$10.00	\$15.25	\$0.00	\$55.40
4	70	\$32.47	\$10.00	\$15.25	\$0.00	\$57.72
5	75	\$34.79	\$10.00	\$15.25	\$0.00	\$60.04
6	80	\$37.10	\$10.00	\$15.25	\$0.00	\$62.35
7	85	\$39.42	\$10.00	\$15.25	\$0.00	\$64.67
8	90	\$41.74	\$10.00	\$15.25	\$0.00	\$66.99

**Notes:**

**Apprentice to Journeyworker Ratio:1:6**

HVAC (DUCTWORK) <i>SHEETMETAL WORKERS LOCAL 17 - A</i>	02/01/2017	\$43.72	\$11.45	\$23.07	\$2.35	\$80.59
	08/01/2017	\$44.82	\$11.45	\$23.07	\$2.35	\$81.69
	02/01/2018	\$45.97	\$11.45	\$23.07	\$2.35	\$82.84
For apprentice rates see "Apprentice- SHEET METAL WORKER"						
HVAC (ELECTRICAL CONTROLS) <i>ELECTRICIANS LOCAL 223</i>	09/01/2016	\$39.21	\$8.90	\$11.51	\$0.00	\$59.62
For apprentice rates see "Apprentice- ELECTRICIAN"						
HVAC (TESTING AND BALANCING - AIR) <i>SHEETMETAL WORKERS LOCAL 17 - A</i>	02/01/2017	\$43.72	\$11.45	\$23.07	\$2.35	\$80.59
	08/01/2017	\$44.82	\$11.45	\$23.07	\$2.35	\$81.69
	02/01/2018	\$45.97	\$11.45	\$23.07	\$2.35	\$82.84
For apprentice rates see "Apprentice- SHEET METAL WORKER"						
HVAC (TESTING AND BALANCING -WATER) <i>PLUMBERS &amp; PIPEFITTERS LOCAL 51</i>	03/01/2016	\$37.38	\$11.00	\$16.10	\$0.00	\$64.48
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HVAC MECHANIC <i>PLUMBERS &amp; PIPEFITTERS LOCAL 51</i>	03/01/2016	\$37.38	\$11.00	\$16.10	\$0.00	\$64.48
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
HYDRAULIC DRILLS <i>LABORERS - ZONE 2</i>	12/01/2016	\$32.65	\$7.60	\$13.00	\$0.00	\$53.25
	06/01/2017	\$33.65	\$7.60	\$13.00	\$0.00	\$54.25
	12/01/2017	\$34.28	\$7.60	\$13.00	\$0.00	\$54.88
	06/01/2018	\$35.12	\$7.60	\$13.00	\$0.00	\$55.72
	12/01/2018	\$35.96	\$7.60	\$13.00	\$0.00	\$56.56
	06/01/2019	\$36.83	\$7.60	\$13.00	\$0.00	\$57.43
	12/01/2019	\$37.69	\$7.60	\$13.00	\$0.00	\$58.29

For apprentice rates see "Apprentice- LABORER"

INSULATOR (PIPES & TANKS) <i>HEAT &amp; FROST INSULATORS LOCAL 6 (SOUTHERN MASS)</i>	09/01/2016	\$40.58	\$11.75	\$14.20	\$0.00	\$66.53
	09/01/2017	\$42.38	\$11.75	\$14.20	\$0.00	\$68.33
	09/01/2018	\$44.40	\$11.75	\$14.20	\$0.00	\$70.35
	09/01/2019	\$46.65	\$11.75	\$14.20	\$0.00	\$72.60

**Apprentice - ASBESTOS INSULATOR (Pipes & Tanks) - Local 6 Southern MA**

**Effective Date -** 09/01/2016

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.29	\$11.75	\$10.45	\$0.00	\$42.49
2	60	\$24.35	\$11.75	\$11.20	\$0.00	\$47.30
3	70	\$28.41	\$11.75	\$11.95	\$0.00	\$52.11
4	80	\$32.46	\$11.75	\$12.70	\$0.00	\$56.91

**Effective Date -** 09/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.19	\$11.75	\$10.45	\$0.00	\$43.39
2	60	\$25.43	\$11.75	\$11.20	\$0.00	\$48.38
3	70	\$29.67	\$11.75	\$11.95	\$0.00	\$53.37
4	80	\$33.90	\$11.75	\$12.70	\$0.00	\$58.35

**Notes:**

Steps are 1 year

**Apprentice to Journeyworker Ratio:1:4**

IRONWORKER/WELDER <i>IRONWORKERS LOCAL 37</i>	03/16/2016	\$34.71	\$7.70	\$16.00	\$0.00	\$58.41
--	------------	---------	--------	---------	--------	---------



**Apprentice - IRONWORKER - Local 37**

**Effective Date - 03/16/2016**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	70	\$24.30	\$7.70	\$16.00	\$0.00	\$48.00
2	75	\$26.03	\$7.70	\$16.00	\$0.00	\$49.73
3	80	\$27.77	\$7.70	\$16.00	\$0.00	\$51.47
4	85	\$29.50	\$7.70	\$16.00	\$0.00	\$53.20
5	90	\$31.24	\$7.70	\$16.00	\$0.00	\$54.94
6	95	\$32.97	\$7.70	\$16.00	\$0.00	\$56.67

Notes:

**Apprentice to Journeyworker Ratio:1:4**

JACKHAMMER & PAVING BREAKER OPERATOR	12/01/2016	\$32.15	\$7.60	\$13.00	\$0.00	\$52.75
LABORERS - ZONE 2	06/01/2017	\$33.15	\$7.60	\$13.00	\$0.00	\$53.75
	12/01/2017	\$33.78	\$7.60	\$13.00	\$0.00	\$54.38
	06/01/2018	\$34.62	\$7.60	\$13.00	\$0.00	\$55.22
	12/01/2018	\$35.46	\$7.60	\$13.00	\$0.00	\$56.06
	06/01/2019	\$36.33	\$7.60	\$13.00	\$0.00	\$56.93
	12/01/2019	\$37.19	\$7.60	\$13.00	\$0.00	\$57.79

For apprentice rates see "Apprentice- LABORER"

LABORER	12/01/2016	\$31.90	\$7.60	\$13.00	\$0.00	\$52.50
LABORERS - ZONE 2	06/01/2017	\$32.90	\$7.60	\$13.00	\$0.00	\$53.50
	12/01/2017	\$33.53	\$7.60	\$13.00	\$0.00	\$54.13
	06/01/2018	\$34.37	\$7.60	\$13.00	\$0.00	\$54.97
	12/01/2018	\$35.21	\$7.60	\$13.00	\$0.00	\$55.81
	06/01/2019	\$36.08	\$7.60	\$13.00	\$0.00	\$56.68
	12/01/2019	\$36.94	\$7.60	\$13.00	\$0.00	\$57.54

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
----------------	----------------	-----------	--------	---------	------------------------------	------------

**Apprentice - LABORER - Zone 2**

**Effective Date - 12/01/2016**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$19.14	\$7.60	\$13.00	\$0.00	\$39.74
2	70	\$22.33	\$7.60	\$13.00	\$0.00	\$42.93
3	80	\$25.52	\$7.60	\$13.00	\$0.00	\$46.12
4	90	\$28.71	\$7.60	\$13.00	\$0.00	\$49.31

**Effective Date - 06/01/2017**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$19.74	\$7.60	\$13.00	\$0.00	\$40.34
2	70	\$23.03	\$7.60	\$13.00	\$0.00	\$43.63
3	80	\$26.32	\$7.60	\$13.00	\$0.00	\$46.92
4	90	\$29.61	\$7.60	\$13.00	\$0.00	\$50.21

**Notes:**

**Apprentice to Journeyworker Ratio:1:5**

LABORER: CARPENTER TENDER	12/01/2016	\$31.90	\$7.60	\$13.00	\$0.00	\$52.50
LABORERS - ZONE 2	06/01/2017	\$32.90	\$7.60	\$13.00	\$0.00	\$53.50
	12/01/2017	\$33.53	\$7.60	\$13.00	\$0.00	\$54.13
	06/01/2018	\$34.37	\$7.60	\$13.00	\$0.00	\$54.97
	12/01/2018	\$35.21	\$7.60	\$13.00	\$0.00	\$55.81
	06/01/2019	\$36.08	\$7.60	\$13.00	\$0.00	\$56.68
	12/01/2019	\$36.94	\$7.60	\$13.00	\$0.00	\$57.54

For apprentice rates see "Apprentice- LABORER"

LABORER: CEMENT FINISHER TENDER	12/01/2016	\$31.90	\$7.60	\$13.00	\$0.00	\$52.50
LABORERS - ZONE 2	06/01/2017	\$32.90	\$7.60	\$13.00	\$0.00	\$53.50
	12/01/2017	\$33.53	\$7.60	\$13.00	\$0.00	\$54.13
	06/01/2018	\$34.37	\$7.60	\$13.00	\$0.00	\$54.97
	12/01/2018	\$35.21	\$7.60	\$13.00	\$0.00	\$55.81
	06/01/2019	\$36.08	\$7.60	\$13.00	\$0.00	\$56.68
	12/01/2019	\$36.94	\$7.60	\$13.00	\$0.00	\$57.54

For apprentice rates see "Apprentice- LABORER"

LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER	12/01/2016	\$32.10	\$7.60	\$12.95	\$0.00	\$52.65
LABORERS - ZONE 2	06/01/2017	\$33.10	\$7.60	\$12.95	\$0.00	\$53.65
	12/01/2017	\$33.73	\$7.60	\$12.95	\$0.00	\$54.28
	06/01/2018	\$34.57	\$7.60	\$12.95	\$0.00	\$55.12
	12/01/2018	\$35.41	\$7.60	\$12.95	\$0.00	\$55.96
	06/01/2019	\$36.28	\$7.60	\$12.95	\$0.00	\$56.83
	12/01/2019	\$37.14	\$7.60	\$12.95	\$0.00	\$57.69

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER: MASON TENDER <i>LABORERS - ZONE 2</i>	12/01/2016	\$32.15	\$7.60	\$13.00	\$0.00	\$52.75
	06/01/2017	\$33.15	\$7.60	\$13.00	\$0.00	\$53.75
	12/01/2017	\$33.78	\$7.60	\$13.00	\$0.00	\$54.38
	06/01/2018	\$34.62	\$7.60	\$13.00	\$0.00	\$55.22
	12/01/2018	\$35.46	\$7.60	\$13.00	\$0.00	\$56.06
	06/01/2019	\$36.33	\$7.60	\$13.00	\$0.00	\$56.93
	12/01/2019	\$37.19	\$7.60	\$13.00	\$0.00	\$57.79
For apprentice rates see "Apprentice- LABORER"						
LABORER: MULTI-TRADE TENDER <i>LABORERS - ZONE 2</i>	12/01/2016	\$31.90	\$7.60	\$13.00	\$0.00	\$52.50
	06/01/2017	\$32.90	\$7.60	\$13.00	\$0.00	\$53.50
	12/01/2017	\$33.53	\$7.60	\$13.00	\$0.00	\$54.13
	06/01/2018	\$34.37	\$7.60	\$13.00	\$0.00	\$54.97
	12/01/2018	\$35.21	\$7.60	\$13.00	\$0.00	\$55.81
	06/01/2019	\$36.08	\$7.60	\$13.00	\$0.00	\$56.68
	12/01/2019	\$36.94	\$7.60	\$13.00	\$0.00	\$57.54
For apprentice rates see "Apprentice- LABORER"						
LABORER: TREE REMOVER <i>LABORERS - ZONE 2</i>	12/01/2016	\$31.90	\$7.60	\$13.00	\$0.00	\$52.50
	06/01/2017	\$32.90	\$7.60	\$13.00	\$0.00	\$53.50
	12/01/2017	\$33.53	\$7.60	\$13.00	\$0.00	\$54.13
	06/01/2018	\$34.37	\$7.60	\$13.00	\$0.00	\$54.97
	12/01/2018	\$35.21	\$7.60	\$13.00	\$0.00	\$55.81
	06/01/2019	\$36.08	\$7.60	\$13.00	\$0.00	\$56.68
	12/01/2019	\$36.94	\$7.60	\$13.00	\$0.00	\$57.54
This classification applies to all tree work associated with the removal of standing trees, and trimming and removal of branches and limbs when the work is not done for a utility company for the purpose of operation, maintenance or repair of utility company equipment. For apprentice rates see "Apprentice- LABORER"						
LASER BEAM OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2016	\$32.15	\$7.60	\$13.00	\$0.00	\$52.75
	06/01/2017	\$33.15	\$7.60	\$13.00	\$0.00	\$53.75
	12/01/2017	\$33.78	\$7.60	\$13.00	\$0.00	\$54.38
	06/01/2018	\$34.62	\$7.60	\$13.00	\$0.00	\$55.22
	12/01/2018	\$35.46	\$7.60	\$13.00	\$0.00	\$56.06
	06/01/2019	\$36.33	\$7.60	\$13.00	\$0.00	\$56.93
	12/01/2019	\$37.19	\$7.60	\$13.00	\$0.00	\$57.79
For apprentice rates see "Apprentice- LABORER"						
MARBLE & TILE FINISHERS <i>BRICKLAYERS LOCAL 3 - MARBLE &amp; TILE</i>	02/01/2017	\$38.78	\$10.75	\$17.67	\$0.00	\$67.20

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
<b>Apprentice - MARBLE &amp; TILE FINISHER - Local 3 Marble &amp; Tile</b>						
<b>Effective Date - 02/01/2017</b>						
Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.39	\$10.75	\$17.67	\$0.00	\$47.81
2	60	\$23.27	\$10.75	\$17.67	\$0.00	\$51.69
3	70	\$27.15	\$10.75	\$17.67	\$0.00	\$55.57
4	80	\$31.02	\$10.75	\$17.67	\$0.00	\$59.44
5	90	\$34.90	\$10.75	\$17.67	\$0.00	\$63.32
<b>Notes:</b>						
<b>Apprentice to Journeyworker Ratio:1:3</b>						
MARBLE MASONS,TILELAYERS & TERRAZZO MECH BRICKLAYERS LOCAL 3 - MARBLE & TILE	02/01/2017	\$50.80	\$10.75	\$19.22	\$0.00	\$80.77

<b>Apprentice - MARBLE-TILE-TERRAZZO MECHANIC - Local 3 Marble &amp; Tile</b>						
<b>Effective Date - 02/01/2017</b>						
Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.40	\$10.75	\$19.22	\$0.00	\$55.37
2	60	\$30.48	\$10.75	\$19.22	\$0.00	\$60.45
3	70	\$35.56	\$10.75	\$19.22	\$0.00	\$65.53
4	80	\$40.64	\$10.75	\$19.22	\$0.00	\$70.61
5	90	\$45.72	\$10.75	\$19.22	\$0.00	\$75.69
<b>Notes:</b>						
<b>Apprentice to Journeyworker Ratio:1:5</b>						
MECH. SWEEPER OPERATOR (ON CONST. SITES) OPERATING ENGINEERS LOCAL 4	12/01/2016	\$44.94	\$10.00	\$15.25	\$0.00	\$70.19
	06/01/2017	\$45.93	\$10.00	\$15.25	\$0.00	\$71.18
	12/01/2017	\$46.92	\$10.00	\$15.25	\$0.00	\$72.17
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
MECHANICS MAINTENANCE OPERATING ENGINEERS LOCAL 4	12/01/2016	\$44.94	\$10.00	\$15.25	\$0.00	\$70.19
	06/01/2017	\$45.93	\$10.00	\$15.25	\$0.00	\$71.18
	12/01/2017	\$46.92	\$10.00	\$15.25	\$0.00	\$72.17
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
MILLWRIGHT (Zone 2) MILLWRIGHTS LOCAL 1121 - Zone 2	04/01/2017	\$35.47	\$9.90	\$18.50	\$0.00	\$63.87
	10/01/2017	\$36.32	\$9.90	\$18.50	\$0.00	\$64.72
	04/01/2018	\$37.17	\$9.90	\$18.50	\$0.00	\$65.57
	10/01/2018	\$38.02	\$9.90	\$18.50	\$0.00	\$66.42
	04/01/2019	\$38.87	\$9.90	\$18.50	\$0.00	\$67.27

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
<b>Apprentice - MILLWRIGHT - Local 1121 Zone 2</b>						
<b>Effective Date - 04/01/2017</b>						
Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$19.51	\$9.90	\$5.31	\$0.00	\$34.72
2	65	\$23.06	\$9.90	\$15.13	\$0.00	\$48.09
3	75	\$26.60	\$9.90	\$16.10	\$0.00	\$52.60
4	85	\$30.15	\$9.90	\$17.06	\$0.00	\$57.11
<b>Effective Date - 10/01/2017</b>						
Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$19.98	\$9.90	\$5.31	\$0.00	\$35.19
2	65	\$23.61	\$9.90	\$15.13	\$0.00	\$48.64
3	75	\$27.24	\$9.90	\$16.10	\$0.00	\$53.24
4	85	\$30.87	\$9.90	\$15.06	\$0.00	\$55.83
<b>Notes:</b>						
Steps are 2,000 hours						
<b>Apprentice to Journeyworker Ratio:1:5</b>						
<hr/>						
MORTAR MIXER	12/01/2016	\$32.15	\$7.60	\$13.00	\$0.00	\$52.75
LABORERS - ZONE 2	06/01/2017	\$33.15	\$7.60	\$13.00	\$0.00	\$53.75
	12/01/2017	\$33.78	\$7.60	\$13.00	\$0.00	\$54.38
	06/01/2018	\$34.62	\$7.60	\$13.00	\$0.00	\$55.22
	12/01/2018	\$35.46	\$7.60	\$13.00	\$0.00	\$56.06
	06/01/2019	\$36.33	\$7.60	\$13.00	\$0.00	\$56.93
	12/01/2019	\$37.19	\$7.60	\$13.00	\$0.00	\$57.79
For apprentice rates see "Apprentice- LABORER"						
OILER (OTHER THAN TRUCK CRANES,GRADALLS)	12/01/2016	\$22.96	\$10.00	\$15.25	\$0.00	\$48.21
OPERATING ENGINEERS LOCAL 4	06/01/2017	\$23.47	\$10.00	\$15.25	\$0.00	\$48.72
	12/01/2017	\$23.99	\$10.00	\$15.25	\$0.00	\$49.24
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
OILER (TRUCK CRANES, GRADALLS)	12/01/2016	\$26.94	\$10.00	\$15.25	\$0.00	\$52.19
OPERATING ENGINEERS LOCAL 4	06/01/2017	\$27.54	\$10.00	\$15.25	\$0.00	\$52.79
	12/01/2017	\$28.15	\$10.00	\$15.25	\$0.00	\$53.40
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
OTHER POWER DRIVEN EQUIPMENT - CLASS II	12/01/2016	\$44.94	\$10.00	\$15.25	\$0.00	\$70.19
OPERATING ENGINEERS LOCAL 4	06/01/2017	\$45.93	\$10.00	\$15.25	\$0.00	\$71.18
	12/01/2017	\$46.92	\$10.00	\$15.25	\$0.00	\$72.17
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PAINTER (BRIDGES/TANKS)	01/01/2017	\$51.41	\$7.85	\$16.10	\$0.00	\$75.36
PAINTERS LOCAL 35 - ZONE 2						

## Classification

Effective Date

Base Wage

Health

Pension

Supplemental  
Unemployment

Total Rate

**Apprentice - PAINTER Local 35 - BRIDGES/TANKS****Effective Date -** 01/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.71	\$7.85	\$0.00	\$0.00	\$33.56
2	55	\$28.28	\$7.85	\$3.66	\$0.00	\$39.79
3	60	\$30.85	\$7.85	\$3.99	\$0.00	\$42.69
4	65	\$33.42	\$7.85	\$4.32	\$0.00	\$45.59
5	70	\$35.99	\$7.85	\$14.11	\$0.00	\$57.95
6	75	\$38.56	\$7.85	\$14.44	\$0.00	\$60.85
7	80	\$41.13	\$7.85	\$14.77	\$0.00	\$63.75
8	90	\$46.27	\$7.85	\$15.44	\$0.00	\$69.56

**Notes:**

Steps are 750 hrs.

**Apprentice to Journeyworker Ratio:1:1**

PAINTER (SPRAY OR SANDBLAST, NEW) \*

01/01/2017

\$42.31

\$7.85

\$16.10

\$0.00

\$66.26

\* If 30% or more of surfaces to be painted are new construction,

NEW paint rate shall be used. PAINTERS LOCAL 35 - ZONE 2

**Apprentice - PAINTER Local 35 Zone 2 - Spray/Sandblast - New****Effective Date -** 01/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.16	\$7.85	\$0.00	\$0.00	\$29.01
2	55	\$23.27	\$7.85	\$3.66	\$0.00	\$34.78
3	60	\$25.39	\$7.85	\$3.99	\$0.00	\$37.23
4	65	\$27.50	\$7.85	\$4.32	\$0.00	\$39.67
5	70	\$29.62	\$7.85	\$14.11	\$0.00	\$51.58
6	75	\$31.73	\$7.85	\$14.44	\$0.00	\$54.02
7	80	\$33.85	\$7.85	\$14.77	\$0.00	\$56.47
8	90	\$38.08	\$7.85	\$15.44	\$0.00	\$61.37

**Notes:**

Steps are 750 hrs.

**Apprentice to Journeyworker Ratio:1:1**

PAINTER (SPRAY OR SANDBLAST, REPAINT)

01/01/2017

\$40.37

\$7.85

\$16.10

\$0.00

\$64.32

PAINTERS LOCAL 35 - ZONE 2

**Classification**
**Effective Date**
**Base Wage**
**Health**
**Pension**
**Supplemental  
Unemployment**
**Total Rate**
**Apprentice - PAINTER Local 35 Zone 2 - Spray/Sandblast - Repaint**
**Effective Date - 01/01/2017**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.19	\$7.85	\$0.00	\$0.00	\$28.04
2	55	\$22.20	\$7.85	\$3.66	\$0.00	\$33.71
3	60	\$24.22	\$7.85	\$3.99	\$0.00	\$36.06
4	65	\$26.24	\$7.85	\$4.32	\$0.00	\$38.41
5	70	\$28.26	\$7.85	\$14.11	\$0.00	\$50.22
6	75	\$30.28	\$7.85	\$14.44	\$0.00	\$52.57
7	80	\$32.30	\$7.85	\$14.77	\$0.00	\$54.92
8	90	\$36.33	\$7.85	\$15.44	\$0.00	\$59.62

**Notes:**

Steps are 750 hrs.

**Apprentice to Journeyworker Ratio:1:1**

PAINTER (TRAFFIC MARKINGS)

LABORERS - ZONE 2

12/01/2016	\$31.90	\$7.60	\$13.00	\$0.00	\$52.50
06/01/2017	\$32.90	\$7.60	\$13.00	\$0.00	\$53.50
12/01/2017	\$33.53	\$7.60	\$13.00	\$0.00	\$54.13
06/01/2018	\$34.37	\$7.60	\$13.00	\$0.00	\$54.97
12/01/2018	\$35.21	\$7.60	\$13.00	\$0.00	\$55.81
06/01/2019	\$36.08	\$7.60	\$13.00	\$0.00	\$56.68
12/01/2019	\$36.94	\$7.60	\$13.00	\$0.00	\$57.54

For Apprentice rates see "Apprentice- LABORER"

PAINTER / TAPER (BRUSH, NEW) \*

01/01/2017	\$40.91	\$7.85	\$16.10	\$0.00	\$64.86
------------	---------	--------	---------	--------	---------

\* If 30% or more of surfaces to be painted are new construction,

NEW paint rate shall be used. PAINTERS LOCAL 35 - ZONE 2

**Apprentice - PAINTER - Local 35 Zone 2 - BRUSH NEW**
**Effective Date - 01/01/2017**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.46	\$7.85	\$0.00	\$0.00	\$28.31
2	55	\$22.50	\$7.85	\$3.66	\$0.00	\$34.01
3	60	\$24.55	\$7.85	\$3.99	\$0.00	\$36.39
4	65	\$26.59	\$7.85	\$4.32	\$0.00	\$38.76
5	70	\$28.64	\$7.85	\$14.11	\$0.00	\$50.60
6	75	\$30.68	\$7.85	\$14.44	\$0.00	\$52.97
7	80	\$32.73	\$7.85	\$14.77	\$0.00	\$55.35
8	90	\$36.82	\$7.85	\$15.44	\$0.00	\$60.11

**Notes:**

Steps are 750 hrs.

**Apprentice to Journeyworker Ratio:1:1**

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PAINTER / TAPER (BRUSH, REPAINT) <i>PAINTERS LOCAL 35 - ZONE 2</i>	01/01/2017	\$38.97	\$7.85	\$16.10	\$0.00	\$62.92

**Apprentice - PAINTER Local 35 Zone 2 - BRUSH REPAINT**

**Effective Date -** 01/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.49	\$7.85	\$0.00	\$0.00	\$27.34
2	55	\$21.43	\$7.85	\$3.66	\$0.00	\$32.94
3	60	\$23.38	\$7.85	\$3.99	\$0.00	\$35.22
4	65	\$25.33	\$7.85	\$4.32	\$0.00	\$37.50
5	70	\$27.28	\$7.85	\$14.11	\$0.00	\$49.24
6	75	\$29.23	\$7.85	\$14.44	\$0.00	\$51.52
7	80	\$31.18	\$7.85	\$14.77	\$0.00	\$53.80
8	90	\$35.07	\$7.85	\$15.44	\$0.00	\$58.36

**Notes:**

Steps are 750 hrs.

**Apprentice to Journeyworker Ratio:1:1**

PANEL & PICKUP TRUCKS DRIVER <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2012	\$30.28	\$9.07	\$8.00	\$0.00	\$47.35
--	------------	---------	--------	--------	--------	---------

PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK) <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2015	\$42.04	\$9.80	\$19.23	\$0.00	\$71.07
---	------------	---------	--------	---------	--------	---------

For apprentice rates see "Apprentice- PILE DRIVER"

PILE DRIVER <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2015	\$42.04	\$9.80	\$19.23	\$0.00	\$71.07
---	------------	---------	--------	---------	--------	---------

**Apprentice - PILE DRIVER - Local 56 Zone 1**

**Effective Date -** 08/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.02	\$9.80	\$19.23	\$0.00	\$50.05
2	60	\$25.22	\$9.80	\$19.23	\$0.00	\$54.25
3	70	\$29.43	\$9.80	\$19.23	\$0.00	\$58.46
4	75	\$31.53	\$9.80	\$19.23	\$0.00	\$60.56
5	80	\$33.63	\$9.80	\$19.23	\$0.00	\$62.66
6	80	\$33.63	\$9.80	\$19.23	\$0.00	\$62.66
7	90	\$37.84	\$9.80	\$19.23	\$0.00	\$66.87
8	90	\$37.84	\$9.80	\$19.23	\$0.00	\$66.87

**Notes:**

**Apprentice to Journeyworker Ratio:1:3**



Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PIPELAYER <i>LABORERS - ZONE 2</i>	12/01/2016	\$32.15	\$7.60	\$13.00	\$0.00	\$52.75
	06/01/2017	\$33.15	\$7.60	\$13.00	\$0.00	\$53.75
	12/01/2017	\$33.78	\$7.60	\$13.00	\$0.00	\$54.38
	06/01/2018	\$34.62	\$7.60	\$13.00	\$0.00	\$55.22
	12/01/2018	\$35.46	\$7.60	\$13.00	\$0.00	\$56.06
	06/01/2019	\$36.33	\$7.60	\$13.00	\$0.00	\$56.93
	12/01/2019	\$37.19	\$7.60	\$13.00	\$0.00	\$57.79

For apprentice rates see "Apprentice- LABORER"

PLUMBER & PIPEFITTER <i>PLUMBERS &amp; PIPEFITTERS LOCAL 51</i>	03/01/2016	\$37.38	\$11.00	\$16.10	\$0.00	\$64.48
--	------------	---------	---------	---------	--------	---------

**Apprentice - PLUMBER/PIPEFITTER - Local 51**

**Effective Date -** 03/01/2016

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$14.95	\$11.00	\$1.50	\$0.00	\$27.45
2	50	\$18.69	\$11.00	\$1.50	\$0.00	\$31.19
3	60	\$22.43	\$11.00	\$7.85	\$0.00	\$41.28
4	70	\$26.17	\$11.00	\$11.66	\$0.00	\$48.83
5	80	\$29.90	\$11.00	\$14.20	\$0.00	\$55.10

**Notes:**

Steps 2000hrs. Prior 9/1/05; 40/40/45/50/55/60/65/75/80/85

**Apprentice to Journeyworker Ratio:1:3**

PNEUMATIC CONTROLS (TEMP.) <i>PLUMBERS &amp; PIPEFITTERS LOCAL 51</i>	03/01/2016	\$37.38	\$11.00	\$16.10	\$0.00	\$64.48
--	------------	---------	---------	---------	--------	---------

For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"

PNEUMATIC DRILL/TOOL OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2016	\$32.15	\$7.60	\$13.00	\$0.00	\$52.75
	06/01/2017	\$33.15	\$7.60	\$13.00	\$0.00	\$53.75
	12/01/2017	\$33.78	\$7.60	\$13.00	\$0.00	\$54.38
	06/01/2018	\$34.62	\$7.60	\$13.00	\$0.00	\$55.22
	12/01/2018	\$35.46	\$7.60	\$13.00	\$0.00	\$56.06
	06/01/2019	\$36.33	\$7.60	\$13.00	\$0.00	\$56.93
	12/01/2019	\$37.19	\$7.60	\$13.00	\$0.00	\$57.79

For apprentice rates see "Apprentice- LABORER"

POWDERMAN & BLASTER <i>LABORERS - ZONE 2</i>	12/01/2016	\$32.90	\$7.60	\$13.00	\$0.00	\$53.50
	06/01/2017	\$33.90	\$7.60	\$13.00	\$0.00	\$54.50
	12/01/2017	\$34.53	\$7.60	\$13.00	\$0.00	\$55.13
	06/01/2018	\$35.37	\$7.60	\$13.00	\$0.00	\$55.97
	12/01/2018	\$36.21	\$7.60	\$13.00	\$0.00	\$56.81
	06/01/2019	\$37.08	\$7.60	\$13.00	\$0.00	\$57.68
	12/01/2019	\$37.94	\$7.60	\$13.00	\$0.00	\$58.54

For apprentice rates see "Apprentice- LABORER"

POWER SHOVEL/DERRICK/TRENCHING MACHINE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$45.38	\$10.00	\$15.25	\$0.00	\$70.63
	06/01/2017	\$46.38	\$10.00	\$15.25	\$0.00	\$71.63
	12/01/2017	\$47.38	\$10.00	\$15.25	\$0.00	\$72.63

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PUMP OPERATOR (CONCRETE) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$45.38	\$10.00	\$15.25	\$0.00	\$70.63
	06/01/2017	\$46.38	\$10.00	\$15.25	\$0.00	\$71.63
	12/01/2017	\$47.38	\$10.00	\$15.25	\$0.00	\$72.63
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (DEWATERING, OTHER) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$31.17	\$10.00	\$15.25	\$0.00	\$56.42
	06/01/2017	\$31.86	\$10.00	\$15.25	\$0.00	\$57.11
	12/01/2017	\$32.55	\$10.00	\$15.25	\$0.00	\$57.80
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
READY-MIX CONCRETE DRIVER <i>TEAMSTERS LOCAL 653</i>	08/01/2008	\$19.76	\$7.16	\$4.21	\$0.00	\$31.13
RECLAIMERS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$44.94	\$10.00	\$15.25	\$0.00	\$70.19
	06/01/2017	\$45.93	\$10.00	\$15.25	\$0.00	\$71.18
	12/01/2017	\$46.92	\$10.00	\$15.25	\$0.00	\$72.17
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
RESIDENTIAL WOOD FRAME (All Other Work) <i>CARPENTERS -ZONE 2 (Residential Wood)</i>	06/01/2016	\$25.32	\$9.80	\$16.82	\$0.00	\$51.94
RESIDENTIAL WOOD FRAME CARPENTER **	04/01/2017	\$26.31	\$7.07	\$7.18	\$0.00	\$40.56
** 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. <i>CARPENTERS -ZONE 2 (Residential Wood)</i>	10/01/2017	\$26.93	\$7.07	\$7.18	\$0.00	\$41.18
	04/01/2018	\$27.35	\$7.07	\$7.18	\$0.00	\$41.60
	10/01/2018	\$27.77	\$7.07	\$7.18	\$0.00	\$42.02
	04/01/2019	\$28.20	\$7.07	\$7.18	\$0.00	\$42.45
	10/01/2019	\$28.63	\$7.07	\$7.18	\$0.00	\$42.88
As of 9/1/09 Carpentry work on wood-frame residential WEATHERIZATION projects shall be paid the RESIDENTIAL WOOD FRAME CARPENTER rate.						

**Classification**
**Effective Date**
**Base Wage**
**Health**
**Pension**
**Supplemental  
Unemployment**
**Total Rate**
**Apprentice - CARPENTER (Residential Wood Frame) - Zone 2**
**Effective Date - 04/01/2017**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$15.79	\$7.07	\$0.00	\$0.00	\$22.86
2	60	\$15.79	\$7.07	\$0.00	\$0.00	\$22.86
3	65	\$17.10	\$7.07	\$7.18	\$0.00	\$31.35
4	70	\$18.42	\$7.07	\$7.18	\$0.00	\$32.67
5	75	\$19.73	\$7.07	\$7.18	\$0.00	\$33.98
6	80	\$21.05	\$7.07	\$7.18	\$0.00	\$35.30
7	85	\$22.36	\$7.07	\$7.18	\$0.00	\$36.61
8	90	\$23.68	\$7.07	\$7.18	\$0.00	\$37.93

**Effective Date - 10/01/2017**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$16.16	\$7.07	\$0.00	\$0.00	\$23.23
2	60	\$16.16	\$7.07	\$0.00	\$0.00	\$23.23
3	65	\$17.50	\$7.07	\$7.18	\$0.00	\$31.75
4	70	\$18.85	\$7.07	\$7.18	\$0.00	\$33.10
5	75	\$20.20	\$7.07	\$7.18	\$0.00	\$34.45
6	80	\$21.54	\$7.07	\$7.18	\$0.00	\$35.79
7	85	\$22.89	\$7.07	\$7.18	\$0.00	\$37.14
8	90	\$24.24	\$7.07	\$7.18	\$0.00	\$38.49

**Notes:**
**Apprentice to Journeyworker Ratio:1:5**
**RIDE-ON MOTORIZED BUGGY OPERATOR**
*LABORERS - ZONE 2*

12/01/2016	\$32.15	\$7.60	\$13.00	\$0.00	\$52.75
06/01/2017	\$33.15	\$7.60	\$13.00	\$0.00	\$53.75
12/01/2017	\$33.78	\$7.60	\$13.00	\$0.00	\$54.38
06/01/2018	\$34.62	\$7.60	\$13.00	\$0.00	\$55.22
12/01/2018	\$35.46	\$7.60	\$13.00	\$0.00	\$56.06
06/01/2019	\$36.33	\$7.60	\$13.00	\$0.00	\$56.93
12/01/2019	\$37.19	\$7.60	\$13.00	\$0.00	\$57.79

For apprentice rates see "Apprentice- LABORER"

**ROLLER/SPREADER/MULCHING MACHINE**
*OPERATING ENGINEERS LOCAL 4*

12/01/2016	\$44.94	\$10.00	\$15.25	\$0.00	\$70.19
06/01/2017	\$45.93	\$10.00	\$15.25	\$0.00	\$71.18
12/01/2017	\$46.92	\$10.00	\$15.25	\$0.00	\$72.17

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

**ROOFER (Inc.Roofers Waterproofing &Roofers Damproofg)**
*ROOFERS LOCAL 33*

02/01/2017	\$41.36	\$11.10	\$13.80	\$0.00	\$66.26
08/01/2017	\$42.46	\$11.10	\$13.80	\$0.00	\$67.36
02/01/2018	\$43.61	\$11.10	\$13.80	\$0.00	\$68.51
08/01/2018	\$44.71	\$11.10	\$13.80	\$0.00	\$69.61
02/01/2019	\$45.86	\$11.10	\$13.80	\$0.00	\$70.76

**Classification**
**Effective Date**
**Base Wage**
**Health**
**Pension**
**Supplemental  
Unemployment**
**Total Rate**
**Apprentice - ROOFER - Local 33**
**Effective Date - 02/01/2017**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.68	\$11.10	\$3.44	\$0.00	\$35.22
2	60	\$24.82	\$11.10	\$13.80	\$0.00	\$49.72
3	65	\$26.88	\$11.10	\$13.80	\$0.00	\$51.78
4	75	\$31.02	\$11.10	\$13.80	\$0.00	\$55.92
5	85	\$35.16	\$11.10	\$13.80	\$0.00	\$60.06

**Effective Date - 08/01/2017**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.23	\$11.10	\$3.44	\$0.00	\$35.77
2	60	\$25.48	\$11.10	\$13.80	\$0.00	\$50.38
3	65	\$27.60	\$11.10	\$13.80	\$0.00	\$52.50
4	75	\$31.85	\$11.10	\$13.80	\$0.00	\$56.75
5	85	\$36.09	\$11.10	\$13.80	\$0.00	\$60.99

**Notes:** \*\* 1:5, 2:6-10, the 1:10; Reroofing: 1:4, then 1:1  
 Step 1 is 2000 hrs.; Steps 2-5 are 1000 hrs.  
 (Hot Pitch Mechanics' receive \$1.00 hr. above ROOFER)

**Apprentice to Journeyworker Ratio:\*\***
**ROOFER SLATE / TILE / PRECAST CONCRETE**
*ROOFERS LOCAL 33*

02/01/2017	\$41.61	\$11.10	\$13.80	\$0.00	\$66.51
08/01/2017	\$42.71	\$11.10	\$13.80	\$0.00	\$67.61
02/01/2018	\$43.86	\$11.10	\$13.80	\$0.00	\$68.76
08/01/2018	\$44.96	\$11.10	\$13.80	\$0.00	\$69.86
02/01/2019	\$46.11	\$11.10	\$13.80	\$0.00	\$71.01

For apprentice rates see "Apprentice- ROOFER"

**SHEETMETAL WORKER**
*SHEETMETAL WORKERS LOCAL 17 - A*

02/01/2017	\$43.72	\$11.45	\$23.07	\$2.35	\$80.59
08/01/2017	\$44.82	\$11.45	\$23.07	\$2.35	\$81.69
02/01/2018	\$45.97	\$11.45	\$23.07	\$2.35	\$82.84

**Classification**
**Effective Date**
**Base Wage**
**Health**
**Pension**
**Supplemental  
Unemployment**
**Total Rate**
**Apprentice - SHEET METAL WORKER - Local 17-A**
**Effective Date - 02/01/2017**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$17.49	\$11.45	\$5.24	\$0.00	\$34.18
2	40	\$17.49	\$11.45	\$5.24	\$0.00	\$34.18
3	45	\$19.67	\$11.45	\$10.31	\$1.24	\$42.67
4	45	\$19.67	\$11.45	\$10.31	\$1.24	\$42.67
5	50	\$21.86	\$11.45	\$11.21	\$1.34	\$45.86
6	50	\$21.86	\$11.45	\$11.46	\$1.34	\$46.11
7	60	\$26.23	\$11.45	\$13.02	\$1.52	\$52.22
8	65	\$28.42	\$11.45	\$13.93	\$1.61	\$55.41
9	75	\$32.79	\$11.45	\$15.74	\$1.80	\$61.78
10	85	\$37.16	\$11.45	\$17.05	\$1.97	\$67.63

**Effective Date - 08/01/2017**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$17.93	\$11.45	\$5.24	\$0.00	\$34.62
2	40	\$17.93	\$11.45	\$5.24	\$0.00	\$34.62
3	45	\$20.17	\$11.45	\$10.31	\$1.26	\$43.19
4	45	\$20.17	\$11.45	\$10.31	\$1.26	\$43.19
5	50	\$22.41	\$11.45	\$11.21	\$1.35	\$46.42
6	50	\$22.41	\$11.45	\$11.46	\$1.36	\$46.68
7	60	\$26.89	\$11.45	\$13.02	\$1.54	\$52.90
8	65	\$29.13	\$11.45	\$13.93	\$1.64	\$56.15
9	75	\$33.62	\$11.45	\$15.74	\$1.82	\$62.63
10	85	\$38.10	\$11.45	\$17.05	\$2.00	\$68.60

**Notes:**

Steps are 6 mos.

**Apprentice to Journeyworker Ratio:1:4**

SIGN ERECTOR

PAINTERS LOCAL 35 - ZONE 2

06/01/2013

\$25.81

\$7.07

\$7.05

\$0.00

\$39.93

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
----------------	----------------	-----------	--------	---------	------------------------------	------------

**Apprentice - SIGN ERECTOR - Local 35 Zone 2**

**Effective Date -** 06/01/2013

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$12.91	\$7.07	\$0.00	\$0.00	\$19.98
2	55	\$14.20	\$7.07	\$2.45	\$0.00	\$23.72
3	60	\$15.49	\$7.07	\$2.45	\$0.00	\$25.01
4	65	\$16.78	\$7.07	\$2.45	\$0.00	\$26.30
5	70	\$18.07	\$7.07	\$7.05	\$0.00	\$32.19
6	75	\$19.36	\$7.07	\$7.05	\$0.00	\$33.48
7	80	\$20.65	\$7.07	\$7.05	\$0.00	\$34.77
8	85	\$21.94	\$7.07	\$7.05	\$0.00	\$36.06
9	90	\$23.23	\$7.07	\$7.05	\$0.00	\$37.35

**Notes:**

Steps are 4 mos.

**Apprentice to Journeyworker Ratio:1:1**

SPECIALIZED EARTH MOVING EQUIP < 35 TONS TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	12/01/2016	\$32.44	\$10.91	\$10.89	\$0.00	\$54.24
SPECIALIZED EARTH MOVING EQUIP > 35 TONS TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	12/01/2016	\$32.73	\$10.91	\$10.89	\$0.00	\$54.53
SPRINKLER FITTER SPRINKLER FITTERS LOCAL 550 - (Section A) Zone 1	03/01/2017	\$56.08	\$8.77	\$17.20	\$0.00	\$82.05

**Apprentice - SPRINKLER FITTER - Local 550 (Section A) Zone 1**

**Effective Date -** 03/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$19.63	\$8.52	\$8.70	\$0.00	\$36.85
2	40	\$22.43	\$8.52	\$8.70	\$0.00	\$39.65
3	45	\$25.24	\$8.52	\$8.70	\$0.00	\$42.46
4	50	\$28.04	\$8.52	\$8.70	\$0.00	\$45.26
5	55	\$30.84	\$8.52	\$8.70	\$0.00	\$48.06
6	60	\$33.65	\$8.52	\$10.20	\$0.00	\$52.37
7	65	\$36.45	\$8.52	\$10.20	\$0.00	\$55.17
8	70	\$39.26	\$8.52	\$10.20	\$0.00	\$57.98
9	75	\$42.06	\$8.52	\$10.20	\$0.00	\$60.78
10	80	\$44.86	\$8.52	\$10.20	\$0.00	\$63.58

**Notes:** Apprentice entered prior 9/30/10:

40/45/50/55/60/65/70/75/80/85

Steps are 850 hours

**Apprentice to Journeyworker Ratio:1:3**

STEAM BOILER OPERATOR OPERATING ENGINEERS LOCAL 4	12/01/2016	\$44.94	\$10.00	\$15.25	\$0.00	\$70.19
	06/01/2017	\$45.93	\$10.00	\$15.25	\$0.00	\$71.18
	12/01/2017	\$46.92	\$10.00	\$15.25	\$0.00	\$72.17

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TAMPERS, SELF-PROPELLED OR TRACTOR DRAWN <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$44.94	\$10.00	\$15.25	\$0.00	\$70.19
	06/01/2017	\$45.93	\$10.00	\$15.25	\$0.00	\$71.18
	12/01/2017	\$46.92	\$10.00	\$15.25	\$0.00	\$72.17
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TELECOMMUNICATION TECHNICIAN <i>ELECTRICIANS LOCAL 223</i>	09/01/2016	\$33.33	\$8.90	\$9.78	\$0.00	\$52.01

**Apprentice - TELECOMMUNICATION TECHNICIAN - Local 223**

**Effective Date -** 09/01/2016

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

**Notes:** See Electrician Apprentice Wages  
Steps are 750hrs  
Telecom Apprentice Wages shall be the same as the Electrician Apprentice Wages

**Apprentice to Journeyworker Ratio:2:3**

TERRAZZO FINISHERS <i>BRICKLAYERS LOCAL 3 - MARBLE &amp; TILE</i>	02/01/2017	\$49.70	\$10.75	\$19.22	\$0.00	\$79.67
--	------------	---------	---------	---------	--------	---------

**Apprentice - TERRAZZO FINISHER - Local 3 Marble & Tile**

**Effective Date -** 02/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.85	\$10.75	\$19.22	\$0.00	\$54.82
2	60	\$29.82	\$10.75	\$19.22	\$0.00	\$59.79
3	70	\$34.79	\$10.75	\$19.22	\$0.00	\$64.76
4	80	\$39.76	\$10.75	\$19.22	\$0.00	\$69.73
5	90	\$44.73	\$10.75	\$19.22	\$0.00	\$74.70

**Notes:**

**Apprentice to Journeyworker Ratio:1:3**

TEST BORING DRILLER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2016	\$37.70	\$7.60	\$14.35	\$0.00	\$59.65
--	------------	---------	--------	---------	--------	---------

For apprentice rates see "Apprentice- LABORER"

TEST BORING DRILLER HELPER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2016	\$36.42	\$7.60	\$14.35	\$0.00	\$58.37
---	------------	---------	--------	---------	--------	---------

For apprentice rates see "Apprentice- LABORER"

TEST BORING LABORER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2016	\$36.30	\$7.60	\$14.35	\$0.00	\$58.25
--	------------	---------	--------	---------	--------	---------

For apprentice rates see "Apprentice- LABORER"

TRACTORS/PORTABLE STEAM GENERATORS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$44.94	\$10.00	\$15.25	\$0.00	\$70.19
	06/01/2017	\$45.93	\$10.00	\$15.25	\$0.00	\$71.18
	12/01/2017	\$46.92	\$10.00	\$15.25	\$0.00	\$72.17

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

TRAILERS FOR EARTH MOVING EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$33.02	\$10.91	\$10.89	\$0.00	\$54.82
---	------------	---------	---------	---------	--------	---------

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TUNNEL WORK - COMPRESSED AIR <i>LABORERS (COMPRESSED AIR)</i>	12/01/2016	\$48.58	\$7.60	\$14.75	\$0.00	\$70.93
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE) <i>LABORERS (COMPRESSED AIR)</i>	12/01/2016	\$50.58	\$7.60	\$14.75	\$0.00	\$72.93
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR <i>LABORERS (FREE AIR TUNNEL)</i>	12/01/2016	\$40.65	\$7.60	\$14.75	\$0.00	\$63.00
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR (HAZ. WASTE) <i>LABORERS (FREE AIR TUNNEL)</i>	12/01/2016	\$42.65	\$7.60	\$14.75	\$0.00	\$65.00
For apprentice rates see "Apprentice- LABORER"						
VAC-HAUL <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.44	\$10.91	\$10.89	\$0.00	\$54.24
WAGON DRILL OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2016	\$32.15	\$7.60	\$13.00	\$0.00	\$52.75
	06/01/2017	\$33.15	\$7.60	\$13.00	\$0.00	\$53.75
	12/01/2017	\$33.78	\$7.60	\$13.00	\$0.00	\$54.38
	06/01/2018	\$34.62	\$7.60	\$13.00	\$0.00	\$55.22
	12/01/2018	\$35.46	\$7.60	\$13.00	\$0.00	\$56.06
	06/01/2019	\$36.33	\$7.60	\$13.00	\$0.00	\$56.93
	12/01/2019	\$37.19	\$7.60	\$13.00	\$0.00	\$57.79
For apprentice rates see "Apprentice- LABORER"						
WASTE WATER PUMP OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$45.38	\$10.00	\$15.25	\$0.00	\$70.63
	06/01/2017	\$46.38	\$10.00	\$15.25	\$0.00	\$71.63
	12/01/2017	\$47.38	\$10.00	\$15.25	\$0.00	\$72.63
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
WATER METER INSTALLER <i>PLUMBERS &amp; PIPEFITTERS LOCAL 51</i>	03/01/2016	\$37.38	\$11.00	\$16.10	\$0.00	\$64.48
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"						
<b>Outside Electrical - East</b>						
CABLE TECHNICIAN (Power Zone) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	08/28/2016	\$26.61	\$7.50	\$1.80	\$0.00	\$35.91
	09/03/2017	\$27.14	\$7.75	\$1.81	\$0.00	\$36.70
For apprentice rates see "Apprentice- LINEMAN"						
CABLEMAN (Underground Ducts & Cables) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	08/28/2016	\$37.70	\$7.50	\$8.87	\$0.00	\$54.07
	09/03/2017	\$38.45	\$7.75	\$9.53	\$0.00	\$55.73
For apprentice rates see "Apprentice- LINEMAN"						
DRIVER / GROUNDMAN CDL <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	08/28/2016	\$31.05	\$7.50	\$8.89	\$0.00	\$47.44
	09/03/2017	\$31.66	\$7.75	\$9.44	\$0.00	\$48.85
For apprentice rates see "Apprentice- LINEMAN"						
DRIVER / GROUNDMAN -Inexperienced (<2000 Hrs) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	08/28/2016	\$24.39	\$7.50	\$1.73	\$0.00	\$33.62
	09/03/2017	\$24.88	\$7.75	\$1.75	\$0.00	\$34.38
For apprentice rates see "Apprentice- LINEMAN"						
EQUIPMENT OPERATOR (Class A CDL) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	08/28/2016	\$37.70	\$7.50	\$12.95	\$0.00	\$58.15
	09/03/2017	\$38.45	\$7.75	\$13.61	\$0.00	\$59.81
For apprentice rates see "Apprentice- LINEMAN"						
EQUIPMENT OPERATOR (Class B CDL) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	08/28/2016	\$33.26	\$7.50	\$9.63	\$0.00	\$50.39
	09/03/2017	\$33.92	\$7.75	\$10.21	\$0.00	\$51.88
For apprentice rates see "Apprentice- LINEMAN"						
GROUNDMAN <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	08/28/2016	\$24.39	\$7.50	\$1.73	\$0.00	\$33.62
	09/03/2017	\$24.88	\$7.75	\$1.75	\$0.00	\$34.38



Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LINEMAN"						
GROUNDMAN -Inexperienced (<2000 Hrs.) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	08/28/2016	\$19.96	\$7.50	\$1.60	\$0.00	\$29.06
	09/03/2017	\$20.35	\$7.75	\$1.61	\$0.00	\$29.71
For apprentice rates see "Apprentice- LINEMAN"						
JOURNEYMAN LINEMAN <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	08/28/2016	\$44.35	\$7.50	\$15.83	\$0.00	\$67.68
	09/03/2017	\$45.23	\$7.75	\$16.61	\$0.00	\$69.59

**Apprentice - LINEMAN (Outside Electrical) - East Local 104**

**Effective Date - 08/28/2016**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$26.61	\$7.50	\$3.30	\$0.00	\$37.41
2	65	\$28.83	\$7.50	\$3.36	\$0.00	\$39.69
3	70	\$31.05	\$7.50	\$3.43	\$0.00	\$41.98
4	75	\$33.26	\$7.50	\$5.00	\$0.00	\$45.76
5	80	\$35.48	\$7.50	\$5.06	\$0.00	\$48.04
6	85	\$37.70	\$7.50	\$5.13	\$0.00	\$50.33
7	90	\$39.92	\$7.50	\$7.20	\$0.00	\$54.62

**Effective Date - 09/03/2017**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$27.14	\$7.75	\$3.31	\$0.00	\$38.20
2	65	\$29.40	\$7.75	\$3.38	\$0.00	\$40.53
3	70	\$31.66	\$7.75	\$3.45	\$0.00	\$42.86
4	75	\$33.92	\$7.75	\$5.02	\$0.00	\$46.69
5	80	\$36.18	\$7.75	\$5.09	\$0.00	\$49.02
6	85	\$38.45	\$7.75	\$5.15	\$0.00	\$51.35
7	90	\$40.71	\$7.75	\$7.22	\$0.00	\$55.68

**Notes:**

**Apprentice to Journeyworker Ratio:1:2**

TELEDATA CABLE SPLICER <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	01/01/2016	\$28.98	\$4.25	\$3.12	\$0.00	\$36.35
TELEDATA LINEMAN/EQUIPMENT OPERATOR <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	01/01/2016	\$27.31	\$4.25	\$3.07	\$0.00	\$34.63
TELEDATA WIREMAN/INSTALLER/TECHNICIAN <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	01/01/2016	\$27.31	\$4.25	\$3.07	\$0.00	\$34.63
TREE TRIMMER <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	01/31/2016	\$18.51	\$3.55	\$0.00	\$0.00	\$22.06
This classification applies only to tree work done: (a) for a utility company, R.E.A. cooperative, or railroad or coal mining company, and (b) for the purpose of operating, maintaining, or repairing the utility company's equipment, and (c) by a person who is using hand or mechanical cutting methods and is not on the ground. This classification does not apply to wholesale tree removal.						
TREE TRIMMER GROUNDMAN <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	01/31/2016	\$16.32	\$3.55	\$0.00	\$0.00	\$19.87

This classification applies only to tree work done: (a) for a utility company, R.E.A. cooperative, or railroad or coal mining company, and (b) for the purpose of operating, maintaining, or repairing the utility company's equipment, and (c) by a person who is using hand or mechanical cutting methods and is on the ground. This classification does not apply to wholesale tree removal.

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
----------------	----------------	-----------	--------	---------	------------------------------	------------

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, ss. 11E-11L.

All steps are six months (1000 hours.)

Ratios are expressed in allowable number of apprentices to journeymen or fraction thereof, unless otherwise specified.

- \*\* Multiple ratios are listed in the comment field.
- \*\*\* APP to JM; 1:1, 2:2, 2:3, 3:4, 4:4, 4:5, 4:6, 5:7, 6:7, 6:8, 6:9, 7:10, 8:10, 8:11, 8:12, 9:13, 10:13, 10:14, etc.
- \*\*\*\* APP to JM; 1:1, 1:2, 2:3, 2:4, 3:5, 4:6, 4:7, 5:8, 6:9, 6:10, 7:11, 8:12, 8:13, 9:14, 10:15, 10:16, etc.