

# CITY OF SALEM



**Kimberley Driscoll, Mayor  
Kathleen Winn, Deputy Director,  
Department of Planning and Community Development**

## **PROJECT MANUAL BID AND CONTRACT DOCUMENTS**

**Project Title: Fort Pickering Site Improvements – Phase 2  
Prepared By: Kyle Zick Landscape Architecture, Inc.  
Preparation Date: 04/05/17**

City of Salem



## Invitation for Bids

S-38

### **Fort Pickering Site Improvements – Phase 2**

APRIL 05, 2017

**BIDS DUE:**

**Wednesday, April 26, 2017, 11:00 AM**

\*Late bids will be rejected

Whitney C. Haskell  
Purchasing Agent  
93 Washington Street, 2nd Floor  
Salem, MA 01970  
[whaskell@salem.com](mailto:whaskell@salem.com)  
(978) 619-5695

**FORT PICKERING SITE IMPROVEMENTS – PHASE 2**  
**S-38**  
**COVER SHEET**

**PLEASE PRINT OR TYPE:**

Name of Bidder:	Contact Individual:			
Address:				
#	Street	City/Town	State	Zip Code
Phone:	Alternate Phone:			
Email Address:	Social Security/Federal Tax Identification Number:			
Authorized Signature: _____				

**FORT PICKERING SITE IMPROVEMENTS – PHASE 2**

**S-38**

**BIDDER'S CHECKLIST**

**Submissions:**

Please Check:

- Completed Cover Sheet
- Bidder's Checklist (this sheet)
- Bid Form
- Signed Certificate of Non-Collusion
- Signed Tax Compliance Certification
- Certificate as to Corporate Bidder
- Reference Form
- 5% Bid Deposit
- Prevailing Wage Certification
- Debarment Certification
- Labor Harmony and OSHA Certification
- List of Similar Project/References
- Acknowledgement of Addenda: \_\_\_\_\_ (*if applicable*)  
(#s)

**FORT PICKERING SITE IMPROVEMENTS – PHASE 2**  
**S-38**  
**BID FORM**

**BASE BID**

**Bid item #1 – Masonry Repairs to Rifle Gallery and Magazine C**

\$ _____ (figures)	_____ DOLLARS AND _____ CENTS. (written)
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**Bid item #2 – Treat Phragmites**

\$ _____ (figures)	_____ DOLLARS AND _____ CENTS. (written)
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***TOTAL BASE BID***

\$ _____ (figures)	_____ DOLLARS AND _____ CENTS. (written)
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\*In the event of a discrepancy, the written amount will control.

\_\_\_\_\_  
 Signature of Authorized Representative

\_\_\_\_\_  
 Name (printed)

\_\_\_\_\_  
 Date

**FORT PICKERING SITE IMPROVEMENTS – PHASE 2**

**S-38**

**REQUIRED CERTIFICATIONS**

**1. NON-COLLUSION**

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

\_\_\_\_\_  
(Signature of authorized individual submitting proposal)

\_\_\_\_\_  
(Printed Name)

\_\_\_\_\_  
(Name of Bidder (if different than name))

\_\_\_\_\_  
(Federal Tax Identification or Social Security Number)

\_\_\_\_\_  
(Date)

## 2. TAX COMPLIANCE

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

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(Signature of authorized individual submitting proposal)

---

(Printed Name)

---

(Name of Bidder (if different than name))

---

(Federal Tax Identification or Social Security Number)

---

(Date)

**3. CORPORATE AUTHORITY (if applicable)**

I, \_\_\_\_\_ certify that I am the \_\_\_\_\_ of the corporation named as Bidder in the Bid included herein, that \_\_\_\_\_, who signed said Bid on behalf of the Bidder was then \_\_\_\_\_ of said corporation, that I know his signature, that his signature thereon is genuine and that said Bid was duly signed, sealed and executed for and in behalf of said corporation by authority of its governing body.

(Corporate Seal)

\_\_\_\_\_  
(Secretary-Clerk)

\_\_\_\_\_  
(Signature of authorized individual submitting proposal)

\_\_\_\_\_  
(Printed Name)

\_\_\_\_\_  
(Name of Bidder (if different than name))

\_\_\_\_\_  
(Federal Tax Identification or Social Security Number)

\_\_\_\_\_  
(Date)



#### 4. PREVAILING WAGES

The undersigned bidder or quoter hereby certifies, under the pains and penalties of perjury, that the foregoing bid or quote is based upon the payment to laborers employed on the project of wages in an amount no less than the applicable prevailing wage rates established for the project by the Massachusetts Department of Labor and Workforce Development. The undersigned bidder or quoter agrees to indemnify the awarding authority for, from and against any loss, expenses, damages, action or claims, including any expense incurred in connection with any delay or stoppage of the project work, arising out of or as a result of (1) the failure of the said bid or quote to be based upon the payment of the said applicable prevailing wage rates, or (2) the failure of the bidder or quoter, if selected as the Contractor, to pay laborers employed on the project the said applicable prevailing wages.

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(Signature of authorized individual submitting proposal)

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(Printed Name)

---

(Name of Bidder (if different than name))

---

(Federal Tax Identification or Social Security Number)

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(Date)

**5. DEBARRMENT**

The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the commonwealth under the provisions of section twenty-nine F of chapter twenty-nine, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder.

\_\_\_\_\_  
(Signature of authorized individual submitting proposal)

\_\_\_\_\_  
(Printed Name)

\_\_\_\_\_  
(Name of Bidder (if different than name))

\_\_\_\_\_  
(Federal Tax Identification or Social Security Number)

\_\_\_\_\_  
(Date)

**6. LABOR HARMONY AND OSHA TRAINING**

The undersigned hereby certifies that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work; that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and that he will comply fully with all laws and regulations applicable to awards made subject to section 44A.

\_\_\_\_\_  
(Signature of authorized individual submitting proposal)

\_\_\_\_\_  
(Printed Name)

\_\_\_\_\_  
(Name of Bidder (if different than name))

\_\_\_\_\_  
(Federal Tax Identification or Social Security Number)

\_\_\_\_\_  
(Date)

# REFERENCE FORM (Attach additional sheets as necessary.)

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Only include projects that include historic masonry restoration and invasive vegetation management.

(1) Reference Name (Contact Person):		City/Town/Company:	
Address:			
Phone:	Fax:	Email:	
Dates of Services Provided: ____ / ____ / ____ to ____ / ____ / ____			
Description of Services Provided:			

(2) Reference Name (Contact Person):		City/Town/Company:	
Address:			
Phone:	Fax:	Email:	
Dates of Services Provided: ____ / ____ / ____ to ____ / ____ / ____			
Description of Services Provided:			

(3) Reference Name (Contact Person):		City/Town/Company:	
Address:			
Phone:	Fax:	Email:	
Dates of Services Provided: ____ / ____ / ____ to ____ / ____ / ____			
Description of Services Provided:			

## **PART 1. GENERAL INFORMATION**

### **1.1 PROCUREMENT DESCRIPTION**

This is the second phase for the restoration of historic Fort Pickering. The work will include treating phragmites in sensitive wetland areas and masonry repairs to the rifle gallery and magazine c. Contractor shall have experience in historic masonry restoration and invasive vegetation management.

The estimated value is \$70,000.00.

### **1.2 APPLICABLE LAW**

This procurement will be conducted pursuant to Massachusetts General Laws Chapter 30, Section 39M.

### **1.3 APPROVAL**

Any contract that may result from the procurement shall be subject to the approval of the Mayor of the City of Salem.

### **1.4 INCORPORATION BY REFERENCE**

All requirements, specifications, terms and conditions described in this Invitation for Bids shall be incorporated by reference into any contract that may result.

### **1.5 TIME FOR AWARD**

Any contract that may result from the procurement shall be awarded within thirty (30) days after the bid opening. The Contractor must agree to hold its bid prices firm for that period.

### **1.6 RIGHT TO CANCEL/REJECT**

The City reserves the right to cancel this Invitation for Bids or reject in whole or in part any and all bids if the City determines that cancellation or rejection serves the best interests of the City.

### **1.7 TAXATION**

Purchases made by the City are exempt from the payment of Federal excise tax and the payment of Commonwealth of Massachusetts sales tax and any such taxes must not be included in the bid pricing.

Copies of the City's tax exempt paperwork shall be available upon request of the selected contractor.

### **1.8 OBTAINING THE INVITATION FOR BIDS**

The Invitation for Bids shall be available beginning, WEDNESDAY, APRIL 05, 2017.

The Invitation for Bids and related documents shall be available for free download from the City's Purchasing Department website at [http://salem.com/Pages/SalemMA\\_Purchasing/index](http://salem.com/Pages/SalemMA_Purchasing/index) under the link titled "IFBs, RFPs, RFQs."

Hardcopies of the Invitation for Bids and related documents may be obtained at the Office of the Purchasing Agent, 93 Washington Street, 2nd Floor, Salem, Massachusetts 01970, between the hours of 8:00 AM-4:00 PM on Monday-Wednesday, 8:00-7:00 PM on Thursday, and 8:00 AM-12:00 PM on Friday.

## PART 2. INSTRUCTIONS FOR BIDDERS

### 2.1 REQUIREMENTS AND SUBMISSIONS

Below please find a description of the requirements and submissions that must be included as part of a bid. Bids must be sealed and marked as noted.

#### 2.1.1 BID FORM

Every bid must include a completed 'Bid Form'. See attached. All material, equipment and labor is F.O.B. City of Salem.

#### 2.1.2 NON-COLLUSION

Every bid must include a certification of good faith, certifying that the bid was made in good faith and without collusion or fraud. See 'Non-Collusion Form' attached.

#### 2.1.3 TAX COMPLIANCE

Every bid must include a written certification that the bidder has complied with all state laws relating to taxes, reporting of employees and contractors, and child support. See 'Tax Compliance Form' attached.

#### 2.1.4 CORPORATE BIDDER

If the bid is being submitted by a corporation, the bid must include a certification that the individual submitting the bid has been authorized to bind the corporation. See 'Certificate of Corporate Authority' attached.

#### 2.1.5 REFERENCE FORM

Every bid must be accompanied by at least three (3) professional references. Only include projects that include historic masonry restoration and invasive vegetation management.

#### 2.1.6 BID DEPOSIT

Each bid must be accompanied by a deposit equal to five percent (5%) of the amount of the bid. The bid deposit may be in the form of a certified treasurer's or cashier's check payable to the City of Salem from a responsible bank or trust company; cash; or a bid bond.

#### 2.1.7 PAYMENT BOND

The selected contractor shall be required to furnish a Payment Bond in the amount of fifty percent (50%) of the contract price, within ten days of the date of notification of the contract award.

#### 2.1.8 PREVAILING WAGE

Wages for this project are subject to the prevailing wage rates as set by the Department of Labor Standards. A copy of the prevailing wage rates for this project is included in the Invitation for Bids, along with a Payroll Record Form and Statement of Compliance.



In the event that the option to renew is exercised, an updated prevailing wage rate sheet will be sent to the Contractor along with the contract amendment letter.

Certified Weekly Payroll documents shall be sent to the Office of the Purchasing Agent, 93 Washington Street, 2nd Floor, Salem, MA 01970. Payroll records must be sent three (3) business days after the close of the previous work week. See 'Certification Regarding Payment of Prevailing Wage Rates' attached.

2.1.9 DEBARMENT

Every bid must include a certification regarding the contractor's debarment status. A debarred contractor is not eligible for the award of public contracts during the period of its debarment. See 'Certification Regarding Debarment' attached.

2.1.10 LABOR HARMONY AND OSHA CERTIFICATION

Every bid must include a certification regarding labor harmony training approved by the U.S. Occupation Safety and Health Administration completed by all employees to be employed at the worksite. See 'Labor Harmony and OSHA Certification' attached.

**2.2 BID DELIVERY**

Below please find a description of the manner in which sealed bids must be submitted.

2.2.1 DUE DATE AND TIME

Bids shall be received by the Office of the Purchasing Agent on or before **11:00 AM on WEDNESDAY, APRIL 26, 2017.**

Any bid received after that time shall be rejected as non-responsive.

2.2.2 ADDRESS

Sealed bids shall be delivered to the Office of the Purchasing Agent, 93 Washington Street, 2nd Floor, Salem Massachusetts 01970.

2.2.3 HOURS OF OPERATION

Bids must be delivered during the normal hours of operation of the City of Salem:

Monday-Wednesday:	8:00 AM-4:00 PM
Thursday:	8:00 AM-7:00 PM
Friday:	8:00 AM-12:00 PM

2.2.4 COPIES

Bidders must submit one (1) original and one (1) copy of the bid.

2.2.5 LABELING

The outside of the envelope containing the sealed bid must be labeled with 1) the bid number 2) the bid opening date and time and 3) the name of the bidder.

## **2.3 SIGNATURES**

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

## **2.4 QUESTIONS, CHANGES, MODIFICATIONS AND WITHDRAWALS**

### **2.4.1 QUESTIONS/REQUESTS FOR CLARIFICATION**

Questions concerning this Invitation for Bids must be submitted in writing to: Whitney Haskell at [whaskell@salem.com](mailto:whaskell@salem.com) at least five (5) days prior to the bid opening date. Written responses will be mailed to all bidders on record as having picked up the Invitation for Bids.

### **2.4.2 CHANGES**

If any changes are made to this Invitation for Bids, addenda will be issued. Addenda will be posted in the Office of the Purchasing Agent, on the website and e-mailed to all bidders on record as having picked up the Invitation for Bids.

### **2.4.3 MODIFICATIONS AND WITHDRAWALS**

A bidder may correct, modify, or withdraw a bid by written notice received by the City of Salem prior to the time and date set for bid opening.

Modifications must be submitted in a sealed envelope clearly labeled "Modification No. \_\_\_" to the address listed in part one of this section. Each modification must be numbered in sequence, and must reference the Invitation for Bids.

After the bid opening a bidder may not change any provision of the bid in a manner prejudicial to the interests of the City or fair competition. Minor informalities will be waived or the bidder will be allowed to correct them. If a mistake and the intended bid are clearly evident on the face of the bid document, the mistake will be corrected to reflect the intended correct bid, and the bidder will be notified in writing; the bidder may not withdraw the bid. A bidder may withdraw a bid if a mistake is clearly evident on the face of the bid document, but the intended correct bid is not similarly evident.

## **2.5 UNFORESEEN OFFICE CLOSURES**

If, at the time of the scheduled bid opening, 93 Washington Street, 2nd Floor, Salem, MA 01970, is closed due to uncontrolled events such as fire, snow, ice, wind, or building evacuation, the bid opening will be postponed until 2:00 PM on the next normal business day. Bids will be accepted until that date and time.

## **2.6 BID OPENING PROCEDURE**

At the time and place fixed for opening of bids, the City will cause to be opened and publicly read aloud every bid received within the time set for receiving bids, irrespective of any irregularities therein. Bidders and other persons properly interested may be present, in person or by representative.



## **PART 3. SPECIFICATIONS**

### **3.1 SPECIFICATIONS**

## **PART 4. EVALUATION AND SELECTION**

### **4.2 RULE FOR AWARD**

Any contract that results from the procurement shall be awarded to the lowest responsible and eligible bidder, offering the lowest price on the "Bid Form."

## PART 5. TERMS AND CONDITIONS

### 5.1 TERM OF CONTRACT

The performance period for any contract that results from this Invitation for Bids shall commence on or around MAY 01, 2017 and extend to SEPTEMBER 30, 2017.

### 5.2 ASSIGNMENTS AND SUBCONTRACTING

The selected vendor shall not assign, sell, subcontract or otherwise transfer any interest in this contract without the prior written consent of the City. The successful bidder shall be fully responsible to the City for the acts and omissions of his subcontractor, and of persons either directly or indirectly employed by them, as he is for the acts and omissions of persons directly employed by him.

### 5.4 INSURANCE REQUIREMENTS

General- The Vendor shall before commencing performance of the Contract be responsible for providing and maintaining insurance coverage in force for the life of the Contract of the kind and in adequate amounts to secure all of the obligations under the Contract and with insurance companies licensed to write insurance in the Commonwealth of Massachusetts. All such insurance carried shall not be less than the kinds and amounts designated herein, and the Vendor agrees that the stipulation herein of the kinds and limits of coverage shall in no way limit the liability of the Vendor to any such kinds and amounts of insurance coverage. All policies issued shall indemnify and save harmless the City of Salem, its agents and employees from any and all claims for damages to persons or property as may rise out of the performance of this Contract.

Vendor's Comprehensive General Public Liability and Property Damage Liability Insurance - The Vendor shall carry Comprehensive General Liability Insurance providing for a limit of not less than Five Hundred Thousand Dollars (\$500,000.00) for all damages arising out of bodily injury to or death of one person, and subject to that limit for each person, a total limit of not less than One Million Dollars (\$1,000,000.00) for all damages arising out of bodily injuries or death of two or more persons in any one accident; and Vendor's Comprehensive Property Damage Liability Insurance providing for a limit of not less than Five Hundred Thousand Dollars (\$500,000.00) for all damages arising out of injury to or destruction of property in any one accident, and subject to that limit per accident, a total (or aggregate) limit or not less than One Million Dollars (\$1,000,000.00) for all damages arising out of injury to or destruction of property during the policy period.

Comprehensive Automotive and Property Damage Insurance - The Vendor shall carry Automobile Insurance covering all owned vehicles, hired vehicles or non-owned vehicles under the control of the Vendor while performing work under the Contract in the amount of not less than Five Hundred Thousand Dollars (\$500,000.00) for all damages arising out of bodily injuries to or death of one person and subject to that limit for each person, a total of not less than One Million Dollars (\$1,000,000.00) for all damages arising out of bodily injuries to or death of two or more persons in any one accident; and Property Damage coverage in the amount of not less than Five Hundred Thousand Dollars (\$500,000.00) for all damages to or destruction of property.

The Vendor must carry Workman's Compensation Insurance in the amounts prescribed under Massachusetts State Law and meet all other City and State Laws and Regulations.

No cancellation(s) of such insurance, whether by the insurer or by the insured party shall be valid unless written notice thereof is given by the parties proposing cancellation to the other party and to the City of Salem at least fifteen (15) days prior to the intended effective date thereof, which date shall be expressed in said notice, which shall be sent by registered mail, return receipt requested. These provisions shall apply to the legal representative(s), trustee in bankruptcy, receiver, assignee, trustee, and successor(s) in interest of the Vendor.

All insurance coverage shall be at the sole expense of the Vendor and shall be placed with such company as may be acceptable to the City of Salem and shall constitute a material part of the contract documents.

Failure to provide written proof to City and continue in force such insurance as aforesaid shall be deemed a material breach of the contract, and may constitute sufficient grounds for immediate termination of the same.

## **5.5 CHANGE ORDERS AND ADJUSTMENTS**

Any request for a change order or adjustment must be submitted in writing and contain, an explanation of the need for the change order, a statement of work including a cost breakdown of each addition, and a statement that the change order is in the best interest of the awarding authority. The City is not obligated to pay for change orders that are not approved in writing, by the original contract signatories. Three (3) copies of the change order shall be required.

## **5.6 INDEMNIFICATION**

Unless otherwise provided by law, the Vendor will indemnify and hold harmless the City against any and all liability, loss, damages, costs or expenses for personal injury or damage to real or tangible personal property which the City may sustain, incur or be required to pay, arising out of or in connection with the performance of the Contract by reason of any negligent action/inaction or willful misconduct by the Contractor, its agents, servants or employees.

## **5.7 FEDERAL AND STATE LAW**

The selected contractor shall comply with all applicable Federal, State and Local laws and ordinances.

## **5.8 STATEMENT OF WORK**

Except as otherwise specifically stated in the bid and contract documents the selected contractor shall secure, at its own expense, all necessary permits and licenses and comply with all city and state codes and regulations. The selected contractor shall provide and pay for all materials, equipment, labor, tools, temporary construction of every nature, charges, levies, fees, or other expenses incurred and all other services and facilities of every nature whatsoever for his performance of the Contract within the specified time, and required for this project. The selected contractor must provide all materials and equipment free of any lien, claim or encumbrance.

## **5.9 SAMPLE CONTRACT**

See 'Sample Contract' attached.

# SAMPLE CONTRACT

**CONTRACT NO. X-XX**  
SCCS Kitchen Plumbing  
CITY OF SALEM  
CONTRACT FOR SERVICES  
Over \$10,000

This agreement is made and entered into by and between the City of Salem (hereinafter the CITY), a municipal corporation organized and existing under the laws of the Commonwealth of Massachusetts, and \_\_\_\_\_ (hereinafter the CONTRACTOR).

**ARTICLE I. DEFINITION.**

This CONTRACT as used herein shall mean these articles, and the “contract documents” which include but are not limited to the following identified items and all documents, and forms submitted therewith, or attached hereby.

- Attachment A: Scope of Services, and/or other bid package materials
- Attachment B: Additional Contract Terms and Conditions
- Attachment C: Statement of Corporate Authority
- Addenda: \_\_\_\_\_

**ARTICLE II. AMOUNT AND DURATION.**

This CONTRACT in an amount not to exceed \$\_\_\_\_\_ shall commence on or about \_\_\_\_\_ and shall terminate no later than \_\_\_\_\_, unless a written amendment to renew or extend this CONTRACT is executed in accordance with the provisions of this CONTRACT.

**ARTICLE III. PERFORMANCE.**

The Contractor agrees to provide all goods and/or services set forth in Invitation for Bids, Documents, Scope of Services, and the CONTRACTOR’s bid \_\_\_\_\_ and/or as outlined in ATTACHMENT A - SCOPE OF SERVICES.

**ARTICLE IV. TERMINATION.**

Without Cause. The CITY may terminate this CONTRACT on sixty (60) calendar days notice, or may suspend this CONTRACT for up to sixty (60) calendar days upon receipt of notice, when in the best interests of the City by providing notice to the CONTRACTOR, which shall be in writing and shall be deemed delivered and received when given in person to the CONTRACTOR, or when received by fax, express mail, certified mail return receipt requested, regular mail postage prepaid or delivered by any other appropriate method evidencing actual receipt by the CONTRACTOR.

For Cause. If the CONTRACTOR is determined by the CITY to be in default of any term or condition of CONTRACT, the CITY may terminate this contract on thirty (30) days notice by providing notice to the CONTRACTOR, which shall be in writing and shall be deemed delivered and received when given in person to the CONTRACTOR, or when received by fax, express mail, certified mail return receipt requested, regular mail postage prepaid or delivered by any other appropriate method evidencing actual receipt by the CONTRACTOR. If the CITY is determined by the CONTRACTOR to be in default of any term or condition of this CONTRACT the CONTRACTOR may terminate this contract on thirty (30) days notice by providing notice to the CITY, which shall be in writing and shall be deemed delivered and received when given in person to the CITY, or when received by fax, express mail, certified mail return receipt requested, regular mail postage prepaid or delivered by any other appropriate method evidencing actual receipt by the CITY.

Default. The following shall constitute events of default under this CONTRACT: a) any material misrepresentation made by the CONTRACTOR to the CITY, b) any failure to perform any of its obligations under this CONTRACT including, but not limited to the following: (i) failure to commence performance of this CONTRACT at the time specified in this CONTRACT due to a reason or circumstance within the CONTRACTOR’S reasonable control, (ii) failure to perform this CONTRACT with sufficient personnel and equipment or with sufficient material to ensure the completion of this CONTRACT within the specified time due to a reason or circumstance within the



CONTRACTOR'S reasonable control, (iii) failure to performance this CONTRACT in a manner reasonably satisfactory to the CITY, (iv) failure to promptly re-perform with reasonable time the services that were rejected by the CITY as unsatisfactory, or erroneous, (v) discontinuance of the services for reasons not beyond the CONTRACTOR'S reasonable control, (vi) failure to comply with a material term of this CONTRACT, including, but not limited to, the provision of insurance and nondiscrimination, and (vii) any other acts specifically and expressly stated in this CONTRACT as constituting a basis for termination of this CONTRACT, and (viii) failure to comply with any and all requirements of state law, and/or regulations, and City ordinances, and/or regulations.

#### **ARTICLE V. REMEDIES OF THE CITY.**

The CITY may deduct the cost of any substitute contract or performance for expenses, losses, and all damages, including incidental and consequential damages as a result of any event of non-conformance or non-performance of the CONTRACTOR in complying with the terms of this CONTRACT, and shall withhold such expenses, losses, and damages from sums due, or to become due.

#### **ARTICLE VI. REMEDIES OF THE CONTRACTOR.**

If the damages, other than loss, non-conformance, or non-performance, are actually sustained by the CONTRACTOR due to any act or omission for which the CITY is legally responsible the CITY shall allow a sum equal to the amount of such damages sustained by the Contractor as determined by the CITY in writing, provided the Contractor shall have provided to all signatories of the contract a detailed written statement of such damages and cause thereof within 30 days of the act of omission by the CITY.

#### **ARTICLE VII. ASSIGNABILITY.**

The CONTRACTOR shall not assign, subcontract or in any way transfer any interest in this contract without the prior written consent of the Procurement Officer of said City. In the event of such occurrence the City reserves the right to deal with any assignee subcontractor or transferee directly and the contractor agrees to remain bound by all terms and conditions of this contract in accordance with its original tenor. The provisions of this CONTRACT shall be binding upon, and shall inure to the benefit of, the successors and assigns of the CONTRACTOR and any public body or bodies succeeding the interests of the CITY.

#### **ARTICLE VIII. INDEMNIFICATION.**

The CONTRACTOR shall assume the defense, indemnify and hold harmless the CITY, the CITY'S agents and employees, from and against all losses and all claims, demands, payments, suits, actions, recoveries and judgments of every nature and description brought or recovered against them by reason of acts, in actions, omissions, negligence, reckless or intentional misconduct of the said CONTRACTOR, its agent(s), officers, employees, or subcontractors; in the execution of the work or in guarding the same. Unless otherwise provided by law, the CITY may elect to indemnify the CONTRACTOR for claims arising in tort if it is determined that the CONTRACTOR performed its obligations under this CONTRACT pursuant to the direct supervision and control of the CITY or its designated agent(s).

#### **ARTICLE IX. WORKER'S COMPENSATION AND OTHER INSURANCE.**

The CONTRACTOR shall provide by insurance for the payment of compensation and the furnishing of other benefits under Chapter 152 of the General Laws of Massachusetts (The Worker's Compensation Act) to all employees of the CONTRACTOR who are subject to the provisions of Chapter 152 of the General Laws of Massachusetts.

Failure to provide and continue in force such insurance during the period of this contract shall be deemed a material breach of this contract, shall operate as an immediate termination thereof, and CONTRACTOR shall indemnify the CITY for all losses, claims, and actions resulting from the failure to provide the insurance required by this Article. Prior to commencement of any work and until completion of its work under this CONTRACT shall maintain the following insurance coverage, at its cost, from insurance acceptable to the CITY, giving evidence of such coverage to the CITY prior to execution of this CONTRACT, a copy of such insurance coverage to be attached herewith:

General - The Vendor shall before commencing performance of the Contract be responsible for providing and maintaining insurance coverage in force for the life of the Contract of the kind and in adequate amounts to secure all of the obligations under the Contract and with insurance companies licensed to write insurance in the Commonwealth of Massachusetts. All such insurance carried shall not be less than the kinds and amounts designated herein, and the Vendor agrees that the stipulation herein of the kinds and limits of coverage shall in no way limit the liability of the Vendor to any such kinds and amounts of insurance coverage. All policies issued shall indemnify and save harmless the City of Salem, its agents and employees from any and all claims for damages to persons or property as may rise out of the performance of this Contract.

Vendor's Comprehensive General Public Liability and Property Damage Liability Insurance - The Vendor shall carry Comprehensive General Liability Insurance providing for a limit of not less than Five Hundred Thousand Dollars (\$500,000.00) for all damages arising out of bodily injury to or death of one person, and subject to that limit for each person, a total limit of not less than One Million Dollars (\$1,000,000.00) for all damages arising out of bodily injuries or death of two or more persons in any one accident; and Vendor's Comprehensive Property Damage Liability Insurance providing for a limit of not less than Five Hundred Thousand Dollars (\$500,000.00) for all damages arising out of injury to or destruction of property in any one accident, and subject to that limit per accident, a total (or aggregate) limit or not less than One Million Dollars (\$1,000,000.00) for all damages arising out of injury to or destruction of property during the policy period.

Comprehensive Automotive and Property Damage Insurance - The Vendor shall carry Automobile Insurance covering all owned vehicles, hired vehicles or non-owned vehicles under the control of the Vendor while performing work under the Contract in the amount of not less than Five Hundred Thousand Dollars (\$500,000.00) for all damages arising out of bodily injuries to or death of one person and subject to that limit for each person, a total of not less than One Million Dollars (\$1,000,000.00) for all damages arising out of bodily injuries to or death of two or more persons in any one accident; and Property Damage coverage in the amount of not less than Five Hundred Thousand Dollars (\$500,000.00) for all damages to or destruction of property.

The Vendor must carry Workman's Compensation Insurance in the amounts prescribed under Massachusetts State Law and meet all other City and State Laws and Regulations.

No cancellation(s) of such insurance, whether by the insurer or by the insured party shall be valid unless written notice thereof is given by the parties proposing cancellation to the other party and to the City of Salem at least fifteen (15) days prior to the intended effective date thereof, which date shall be expressed in said notice, which shall be sent by registered mail, return receipt requested. These provisions shall apply to the legal representative(s), trustee in bankruptcy, receiver, assignee, trustee, and successor(s) in interest of the Vendor.

All insurance coverage shall be at the sole expense of the Vendor and shall be placed with such company as may be acceptable to the City of Salem and shall constitute a material part of the contract documents.

Failure to provide written proof to City and continue in force such insurance as aforesaid shall be deemed a material breach of the contract, and may constitute sufficient grounds for immediate termination of the same.

All required insurance must be endorsed to name the CITY as Additional Insured. All required insurance shall be endorsed to waive the insurer's rights of subrogation against the City. All policies and certificate for insurance must contain language that the insurance shall not be canceled, materially changed or non-renewed without at least thirty (30) days advance written notice to the CITY. The CONTRACTOR under this CONTRACT shall not allow its subcontractors to begin work until similar insurance has been so obtained and certificates of insurance approved by the CONTRACTOR.

#### **ARTICLE X. CORPORATE CONTRACTOR.**

If CONTRACTOR is a corporation, CONTRACTOR shall endorse the Certificate of Corporate Authority for the CONTRACTORS' signatory (Attachment C), or shall otherwise provide a form similar in nature and substance acceptable to the CITY.

If CONTRACTOR is a non-profit corporation, CONTRACTOR shall provide satisfactory proof of present status as a non-profit corporation. Such proof shall be in the form of a certification from the Massachusetts Secretary of State's office and/or from the Internal Revenue Service and shall provide the Federal Tax Identification Number of the non-profit corporation. This agreement shall not be enforceable against the CITY unless and until the CONTRACTOR complies with this section. Failure to inform the CITY in writing of revocation, or other loss of non-profit status shall be deemed a material breach of this contract and operate as an immediate termination thereof.

#### **ARTICLE XI. SUBJECT TO APPROPRIATION.**

The obligations of the CITY under this CONTRACT shall be subject to appropriation. In the absence of appropriation this CONTRACT shall be immediately terminated without liability for damages, penalties, or other charges.

In the requisite circumstances, the obligations of the CITY under this CONTRACT shall be subject to the formal award of the state, federal grant.

**ARTICLE XII. DOCUMENTS, MATERIALS, ETC.**

Any materials, reports, information, data, etc. given to or prepared or assembled by the CONTRACTOR under this CONTRACT are to be kept confidential and shall not be made available to any individual or organization by the CONTRACTOR (except agents, servants, or employees of the CONTRACTOR) without the prior written approval of the CITY, except as otherwise required by law. The CONTRACTOR understands that he/she/it may acquire or have access to “personal data” otherwise kept by the CITY. The CONTRACTOR shall comply with the provisions Chapter 66A of the General Laws of Massachusetts as it relates to public documents, and all other state and federal laws and regulations relating to confidentiality, security privacy and use of confidential data.

Any materials produced in whole or in part under this CONTRACT shall not be subject to copyright, except by the CITY, in the United States or any other country. The CITY shall have unrestricted authority to, without payment of any royalty, commission, or additional fee of any type or nature, publicly disclose, reproduce, distribute and otherwise use, and authorize other to use, in whole or in part, any reports, data or other materials prepared under this CONTRACT.

All data, reports, programs, software, equipment, furnishings, and any other documentation or product paid for by the CITY shall vest in the CITY at the termination of this CONTRACT. The CONTRACTOR shall at all times, during or after termination of this CONTRACT, obtain the prior written approval of the CITY before making any statement bearing on the work performed or data collected under this CONTRACT to the press or issues any material for publication through any medium.

**ARTICLE XIII. AUDIT, INSPECTION, RECORD KEEPING.**

At any time during normal business hours, and as often as the CITY may deem it reasonably necessary, there shall be made available in the office of the CONTRACTOR for the purpose of audit, examination, and/or to make excerpts or transcripts, all records, contracts, invoices, materials, payrolls, records of personnel, conditions of employment and other data relating to all matters covered by this agreement.

Further the CONTRACTOR agrees to make its work papers, records and other evidence of audit available to the CITY for a period of three years after final payment under his CONTRACT. The CITY shall be entitled to reproduce any or all such documents at its own expense, for which provision shall be made at such time.

**ARTICLE XIV. WEEKLY PAYROLL RECORDS REPORT.**

In accordance with Massachusetts General Law c. 149, s. 27B, a true and accurate record must be kept of all individuals employed on a public works construction project for which prevailing wage rates are applicable.

In addition, every contractor and subcontractor is required to submit, on a weekly basis, a copy of their weekly payroll records to the awarding authority. Once collected, the awarding authority is also required to preserve those records for three years.

**ARTICLE XV. CONFLICT OF INTEREST.**

CITY. No officer, member or employee of the CITY and no members of its governing body who exercise any function or responsibility in review or approval of the undertaking or carrying out of this CONTRACT shall participate in any decision relating to the CONTRACT which affects his/her personal interests or the interest of any corporation, partnership, or association in which he/she has a direct or indirect pecuniary interest. None of the services to be provided by the CONTRACTOR shall be used for any partisan political activity or further the election or defeat of any candidate for political office in the CITY. Compliance with this section shall be material to the CONTRACT.

CONTRACTOR. CONTRACTOR agrees that his/her/its agents, servants, and employees have neither presently nor during the period of this CONTRACT any interest direct or indirect which would impair, detract, or conflict in any manner or degree with the performance of services required under this CONTRACT. The CONTRACTOR, his/her/its agents, servants or employees further stipulates that in the performance of this CONTRACT, no person having any such interest shall be employed. Conflicts of Interest include but are not limited to (a) immediate family relationships with officials of the CITY, (b) instances where the CONTRACTOR, his/her/it agents, servants or employees during the period of this CONTRACT was connected as an officer, employee or member of the governing body of the CITY, and (c) instances where the CONTRACTOR has an interest in any CITY department, its agents, servants or employees or parcels of land within the CITY. Compliance with this section shall be material to the CONTRACT.

**ARTICLE XVI. PAYMENT.**

The CITY agrees to make all reasonable efforts to pay to the CONTRACTOR the sum set forth in the CONTRACTOR'S bid or proposal within thirty (30) days of receipt of an invoice at the Office of the City Auditor detailing the work completed.

Subject to pending statutory appeal rights, CONTRACTOR agrees that all sums otherwise due and payable to the CITY for outstanding taxes, fines, fees and or other municipal charges may be deducted from the sum(s) otherwise payable under this CONTRACT prior to disbursement to the CONTRACTOR.

**ARTICLE XVII. CONFLICT.**

In the event there is a conflict between these Articles and Attachment A. Attachment A shall supersede these Articles.  
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**ARTICLE XVIII. WAIVER AND AMENDMENT.**

The provisions contained in this CONTRACT may be modified only as specifically provided by ATTACHMENT B - ADDITIONAL TERMS AND CONDITIONS. Amendments, or waivers of any additional term, condition, covenant, duty or obligation contained in this CONTRACT may be made only by written amendment executed by all signatories to the original agreement, prior to the effective date of the amendment.

To the extent allowed by law, all conditions, duties, and obligations contained in this CONTRACT may be waived only by written agreement by both parties.

Forbearance or indulgence in any form or manner by a party shall not be construed as a waiver, nor in any manner limit the legal or equitable remedies available to that party. No waiver by either party of any default or breach shall constitute a waiver of any subsequent default or breach of a similar or different matter.

**ARTICLE XIX. CERTIFICATION.**

IN WITNESS WHEREOF, THE CONTRACTOR CERTIFIES, UNDER THE PAINS AND PENALTIES OF PERJURY, THAT THE CONTRACTOR IS IN COMPLIANCE WITH EACH OF THE FOLLOWING:

TAXES. PURSUANT to M.G.L. c. 62C, s. 49A, the CONTRACTOR has filed all state tax returns and complied with all laws of the Commonwealth relating to taxes.

DEBARMENT. The CONTRACTOR is not currently debarred or suspended by the Commonwealth of Massachusetts, or any of its entities or subdivisions.

AMERICANS WITH DISABILITIES ACT. The CONTRACTOR is aware of the recently enacted Americans with Disabilities Act which prohibits discrimination based upon disability and shall meet any relevant standards, and/or conditions set out in the bid/proposal documents, bid/proposal specifications, and/or ATTACHMENT A - SCOPE OF SERVICES.

**ARTICLE XX. FORUM AND CHOICE OF LAW**

This CONTRACT and any performance herein shall be governed by and be construed in accordance with the laws of Commonwealth. Any and all proceedings or actions relating to subject matter herein shall be brought and maintained in the courts of the Commonwealth or the federal district court sitting in the Commonwealth, which shall have exclusive jurisdiction thereof. This paragraph shall not be construed to limit any other legal rights of the parties.

IN WITNESS WHEREOF the parties have hereto and to three other identical instruments set forth their hands the day and year first above written.

THE CITY:

THE CONTRACTOR:

\_\_\_\_\_  
Kimberley Driscoll,  
Mayor

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Whitney Haskell,  
Purchasing Agent

Approved as to form:

\_\_\_\_\_  
Elizabeth Rennard, Esq.,  
City Solicitor

Approved as Contract Manager:

\_\_\_\_\_

I certify that funds have been encumbered  
in the amount of :       \$

\_\_\_\_\_  
Sarah Stanton,  
Finance Director

Print Name

\_\_\_\_\_  
Print Title

\_\_\_\_\_  
Company

\_\_\_\_\_  
Status (Corporate/Non- Corporate)

\_\_\_\_\_  
Taxpayer Identification Number

\_\_\_\_\_  
Date

## ATTACHMENT A

### SCOPE OF SERVICES

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***INSTRUCTIONS FOR DEPARTMENT AND CONTRACTOR:*** Please attach for reference purposes a copy of all bid/proposal documents, including but not limited to (i) invitations/instructions for bidders (ii) invitation/instructions for proposers, (iii) general and specific conditions, and please provide a detailed description of all types of goods and/or services that will be provided pursuant to this CONTRACT, not otherwise provided in any bid/proposal instructions, specifications, conditions or other documents.

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**ATTACHMENT B**

**ADDITIONAL CONTRACT TERMS AND CONDITIONS**

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***INSTRUCTIONS FOR DEPARTMENTS:*** *Please specify any additions or modifications to the terms and conditions (not to conflict with the public procurement laws or City ordinances or regulations):*

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**ATTACHMENT C**

**CERTIFICATE OF CORPORATE AUTHORITY**

If the Contractor is a corporation, complete the following certification:

At a duly authorized meeting of the Board of Directors of the \_\_\_\_\_ (Name of the Corporation) held on \_\_\_\_\_ (Date), at which all the Directors were present or waived notice, it was voted that, \_\_\_\_\_ (Name), \_\_\_\_\_ (Officer) of this company, is authorized to execute Contracts and bonds in the name and behalf of said company, and affix its corporate seal thereto, and such execution of any Contract or obligation in this company's name on its behalf by such \_\_\_\_\_ (Officer) of the company, shall be valid and binding upon this company.

I hereby certify that I am the Clerk of the \_\_\_\_\_ (Name of the Corporation), that \_\_\_\_\_ (Name) is the duly elected \_\_\_\_\_ (Officer) of said company, and that the above vote has not been amended or rescinded and remains in full force and effect as of the date of the Contract.

A true copy,

Attest: \_\_\_\_\_  
(Clerk)

Place of Business: \_\_\_\_\_

Corporate Seal:



**PREVAILING WAGE RATES**



**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

CHARLES D. BAKER  
Governor

KARYN E. POLITO  
Lt. Governor

**Awarding Authority:** City of Salem  
**Contract Number:** S-38 **City/Town:** SALEM  
**Description of Work:** Fort Pickering Site Improvements Phase II - Masonry, gating and vegetation removal at Fort Pickering.  
**Job Location:** Fort Pickering, Salem, MA 01970

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 REMOVER - PIPE / MECH. EQUIPT. <i>HEAT &amp; FROST INSULATORS LOCAL 6 (BOSTON)</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 (LYNN)</i>	03/01/2017	\$50.76	\$10.75	\$19.22	\$0.00	\$80.73
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**Apprentice - BRICK/PLASTER/CEMENT MASON - Local 3 Lynn**

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.38	\$10.75	\$19.22	\$0.00	\$55.35
2	60	\$30.46	\$10.75	\$19.22	\$0.00	\$60.43
3	70	\$35.53	\$10.75	\$19.22	\$0.00	\$65.50
4	80	\$40.61	\$10.75	\$19.22	\$0.00	\$70.58
5	90	\$45.68	\$10.75	\$19.22	\$0.00	\$75.65

**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	\$45.67	\$12.20	\$19.41	\$1.30	\$78.58
BRICKLAYERS LOCAL 3 (LYNN)	07/01/2017	\$46.30	\$12.20	\$19.41	\$1.30	\$79.21
	01/01/2018	\$46.54	\$12.20	\$19.41	\$1.30	\$79.45
	07/01/2018	\$46.79	\$12.20	\$19.41	\$1.30	\$79.70
	01/01/2019	\$47.03	\$12.20	\$19.41	\$1.30	\$79.94
	07/01/2019	\$47.27	\$12.20	\$19.41	\$1.30	\$80.18
	01/01/2020	\$47.52	\$12.20	\$19.41	\$1.30	\$80.43

**Classification**

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

**Apprentice - CEMENT MASONRY/PLASTERING - Eastern Mass (Lynn)**

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.84	\$12.20	\$12.41	\$0.00	\$47.45
2	60	\$27.40	\$12.20	\$14.41	\$1.30	\$55.31
3	65	\$29.69	\$12.20	\$15.41	\$1.30	\$58.60
4	70	\$31.97	\$12.20	\$16.41	\$1.30	\$61.88
5	75	\$34.25	\$12.20	\$17.41	\$1.30	\$65.16
6	80	\$36.54	\$12.20	\$18.41	\$1.30	\$68.45
7	90	\$41.10	\$12.20	\$19.41	\$1.30	\$74.01

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.15	\$12.20	\$12.41	\$0.00	\$47.76
2	60	\$27.78	\$12.20	\$14.41	\$1.30	\$55.69
3	65	\$30.10	\$12.20	\$15.41	\$1.30	\$59.01
4	70	\$32.41	\$12.20	\$16.41	\$1.30	\$62.32
5	75	\$34.73	\$12.20	\$17.41	\$1.30	\$65.64
6	80	\$37.04	\$12.20	\$18.41	\$1.30	\$68.95
7	90	\$41.67	\$12.20	\$19.41	\$1.30	\$74.58

**Notes:**

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

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

CHAIN SAW 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"

CLAM SHELLS/SLURRY BUCKETS/HEADING MACHINES OPERATING ENGINEERS LOCAL 4	12/01/2016	\$46.38	\$10.00	\$15.25	\$0.00	\$71.63
	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 OPERATING ENGINEERS LOCAL 4	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"

DELEADER (BRIDGE) PAINTERS LOCAL 35 - ZONE 2	01/01/2017	\$51.41	\$7.85	\$16.10	\$0.00	\$75.36
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**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 LABORERS - ZONE 2	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"

DEMO: BACKHOE/LOADER/HAMMER OPERATOR LABORERS - ZONE 2	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: BURNERS LABORERS - ZONE 2	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"



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"						
DRAWBRIDGE OPERATOR (Construction) <i>ELECTRICIANS LOCAL 103</i>	03/01/2017	\$48.33	\$13.00	\$17.45	\$0.00	\$78.78
	09/01/2017	\$49.28	\$13.00	\$17.48	\$0.00	\$79.76
	03/01/2018	\$50.48	\$13.00	\$17.51	\$0.00	\$80.99
	09/01/2018	\$51.67	\$13.00	\$17.55	\$0.00	\$82.22
	03/01/2019	\$52.87	\$13.00	\$17.59	\$0.00	\$83.46
For apprentice rates see "Apprentice- ELECTRICIAN"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
ELECTRICIAN <i>ELECTRICIANS LOCAL 103</i>	03/01/2017	\$48.33	\$13.00	\$17.45	\$0.00	\$78.78
	09/01/2017	\$49.28	\$13.00	\$17.48	\$0.00	\$79.76
	03/01/2018	\$50.48	\$13.00	\$17.51	\$0.00	\$80.99
	09/01/2018	\$51.67	\$13.00	\$17.55	\$0.00	\$82.22
	03/01/2019	\$52.87	\$13.00	\$17.59	\$0.00	\$83.46

**Apprentice -** *ELECTRICIAN - Local 103*

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$19.33	\$13.00	\$0.58	\$0.00	\$32.91
2	40	\$19.33	\$13.00	\$0.58	\$0.00	\$32.91
3	45	\$21.75	\$13.00	\$13.37	\$0.00	\$48.12
4	45	\$21.75	\$13.00	\$13.37	\$0.00	\$48.12
5	50	\$24.17	\$13.00	\$13.75	\$0.00	\$50.92
6	55	\$26.58	\$13.00	\$14.11	\$0.00	\$53.69
7	60	\$29.00	\$13.00	\$14.48	\$0.00	\$56.48
8	65	\$31.41	\$13.00	\$14.85	\$0.00	\$59.26
9	70	\$33.83	\$13.00	\$15.22	\$0.00	\$62.05
10	75	\$36.25	\$13.00	\$15.60	\$0.00	\$64.85

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$19.71	\$13.00	\$0.59	\$0.00	\$33.30
2	40	\$19.71	\$13.00	\$0.59	\$0.00	\$33.30
3	45	\$22.18	\$13.00	\$13.39	\$0.00	\$48.57
4	45	\$22.18	\$13.00	\$13.39	\$0.00	\$48.57
5	50	\$24.64	\$13.00	\$13.76	\$0.00	\$51.40
6	55	\$27.10	\$13.00	\$14.12	\$0.00	\$54.22
7	60	\$29.57	\$13.00	\$14.50	\$0.00	\$57.07
8	65	\$32.03	\$13.00	\$14.87	\$0.00	\$59.90
9	70	\$34.50	\$13.00	\$15.25	\$0.00	\$62.75
10	75	\$36.96	\$13.00	\$15.62	\$0.00	\$65.58

**Notes:** :

App Prior 1/1/03; 30/35/40/45/50/55/65/70/75/80

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

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

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

**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 <i>ELEVATOR CONSTRUCTORS LOCAL 4</i>	01/01/2017	\$39.10	\$15.28	\$15.71	\$0.00	\$70.09
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For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"

FENCE & GUARD RAIL ERECTOR <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"

FIELD ENG.INST.PERSON-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	11/01/2016	\$41.37	\$10.00	\$15.15	\$0.00	\$66.52
	05/01/2017	\$42.25	\$10.00	\$15.15	\$0.00	\$67.40
	11/01/2017	\$42.98	\$10.00	\$15.15	\$0.00	\$68.13
	05/01/2018	\$43.69	\$10.00	\$15.15	\$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>	11/01/2016	\$42.82	\$10.00	\$15.15	\$0.00	\$67.97
	05/01/2017	\$43.71	\$10.00	\$15.15	\$0.00	\$68.86
	11/01/2017	\$44.44	\$10.00	\$15.15	\$0.00	\$69.59
	05/01/2018	\$45.16	\$10.00	\$15.15	\$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>	11/01/2016	\$21.98	\$10.00	\$15.15	\$0.00	\$47.13
	05/01/2017	\$22.51	\$10.00	\$15.15	\$0.00	\$47.66
	11/01/2017	\$22.93	\$10.00	\$15.15	\$0.00	\$48.08
	05/01/2018	\$23.36	\$10.00	\$15.15	\$0.00	\$48.51

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

FIRE ALARM INSTALLER <i>ELECTRICIANS LOCAL 103</i>	03/01/2017	\$48.33	\$13.00	\$17.45	\$0.00	\$78.78
	09/01/2017	\$49.28	\$13.00	\$17.48	\$0.00	\$79.76
	03/01/2018	\$50.48	\$13.00	\$17.51	\$0.00	\$80.99
	09/01/2018	\$51.67	\$13.00	\$17.55	\$0.00	\$82.22
	03/01/2019	\$52.87	\$13.00	\$17.59	\$0.00	\$83.46

For apprentice rates see "Apprentice- ELECTRICIAN"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING <i>ELECTRICIANS</i>	03/01/2017	\$36.25	\$13.00	\$15.60	\$0.00	\$64.85
<i>LOCAL 103</i>	09/01/2017	\$36.96	\$13.00	\$15.62	\$0.00	\$65.58
	03/01/2018	\$37.86	\$13.00	\$15.65	\$0.00	\$66.51
	09/01/2018	\$38.75	\$13.00	\$15.67	\$0.00	\$67.42
	03/01/2019	\$39.65	\$13.00	\$15.70	\$0.00	\$68.35
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
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 35 (ZONE 2)</i>	01/01/2017	\$40.91	\$7.85	\$16.10	\$0.00	\$64.86

**Classification**

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

**Apprentice - GLAZIER - Local 35 Zone 2**

**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**

HOISTING ENGINEER/CRANES/GRADALLS	12/01/2016	\$45.38	\$10.00	\$15.25	\$0.00	\$70.63
OPERATING ENGINEERS LOCAL 4	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**

**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) 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

For apprentice rates see "Apprentice- SHEET METAL WORKER"

HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 103	03/01/2017	\$48.33	\$13.00	\$17.45	\$0.00	\$78.78
	09/01/2017	\$49.28	\$13.00	\$17.48	\$0.00	\$79.76
	03/01/2018	\$50.48	\$13.00	\$17.51	\$0.00	\$80.99
	09/01/2018	\$51.67	\$13.00	\$17.55	\$0.00	\$82.22
	03/01/2019	\$52.87	\$13.00	\$17.59	\$0.00	\$83.46

For apprentice rates see "Apprentice- ELECTRICIAN"

HVAC (TESTING AND BALANCING - AIR) 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

For apprentice rates see "Apprentice- SHEET METAL WORKER"

HVAC (TESTING AND BALANCING -WATER) PIPEFITTERS LOCAL 537 (Local 138)	03/01/2017	\$48.86	\$9.70	\$16.14	\$0.00	\$74.70
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For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"

HVAC MECHANIC PIPEFITTERS LOCAL 537 (Local 138)	03/01/2017	\$48.86	\$9.70	\$16.14	\$0.00	\$74.70
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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HYDRAULIC DRILLS LABORERS - ZONE 2	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) HEAT & FROST INSULATORS LOCAL 6 (BOSTON)	09/01/2016	\$45.09	\$11.75	\$14.20	\$0.00	\$71.04
	09/01/2017	\$47.09	\$11.75	\$14.20	\$0.00	\$73.04
	09/01/2018	\$49.34	\$11.75	\$14.20	\$0.00	\$75.29
	09/01/2019	\$51.84	\$11.75	\$14.20	\$0.00	\$77.79

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

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.55	\$11.75	\$10.45	\$0.00	\$44.75
2	60	\$27.05	\$11.75	\$11.20	\$0.00	\$50.00
3	70	\$31.56	\$11.75	\$11.95	\$0.00	\$55.26
4	80	\$36.07	\$11.75	\$12.70	\$0.00	\$60.52

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.55	\$11.75	\$10.45	\$0.00	\$45.75
2	60	\$28.25	\$11.75	\$11.20	\$0.00	\$51.20
3	70	\$32.96	\$11.75	\$11.95	\$0.00	\$56.66
4	80	\$37.67	\$11.75	\$12.70	\$0.00	\$62.12

**Notes:**

Steps are 1 year

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

IRONWORKER/WELDER IRONWORKERS LOCAL 7 (BOSTON AREA)	03/16/2017	\$44.65	\$7.80	\$20.85	\$0.00	\$73.30
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**Classification**

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

**Apprentice - IRONWORKER - Local 7 Boston**

**Effective Date - 03/16/2017**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$26.79	\$7.80	\$20.85	\$0.00	\$55.44
2	70	\$31.26	\$7.80	\$20.85	\$0.00	\$59.91
3	75	\$33.49	\$7.80	\$20.85	\$0.00	\$62.14
4	80	\$35.72	\$7.80	\$20.85	\$0.00	\$64.37
5	85	\$37.95	\$7.80	\$20.85	\$0.00	\$66.60
6	90	\$40.19	\$7.80	\$20.85	\$0.00	\$68.84

**Notes:**

\*\* Structural 1:6; Ornamental 1:4

**Apprentice to Journeyworker Ratio:\*\***

JACKHAMMER & PAVING BREAKER 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"

LABORER 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



**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 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"

LABORER: CEMENT FINISHER TENDER 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"

LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER LABORERS - ZONE 2	12/01/2016	\$32.10	\$7.60	\$12.95	\$0.00	\$52.65
	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"

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
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

**Apprentice - MARBLE & TILE FINISHER - Local 3 Marble & Tile**

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

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

**Notes:**

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

MARBLE MASONS, TILELAYERS & TERRAZZO MECH <i>BRICKLAYERS LOCAL 3 - MARBLE &amp; TILE</i>	02/01/2017	\$50.80	\$10.75	\$19.22	\$0.00	\$80.77
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**Apprentice - MARBLE-TILE-TERRAZZO MECHANIC - Local 3 Marble & Tile**

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

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

**Notes:**

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

MECH. SWEEPER OPERATOR (ON CONST. SITES) <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"

MECHANICS MAINTENANCE <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"

MILLWRIGHT (Zone 1) <i>MILLWRIGHTS LOCAL 1121 - Zone 1</i>	10/01/2016	\$37.97	\$9.90	\$18.25	\$0.00	\$66.12
	04/01/2017	\$38.87	\$9.90	\$18.25	\$0.00	\$67.02
	10/01/2017	\$39.77	\$9.90	\$18.25	\$0.00	\$67.92
	04/01/2018	\$40.67	\$9.90	\$18.25	\$0.00	\$68.82
	10/01/2018	\$41.57	\$9.90	\$18.25	\$0.00	\$69.72
	04/01/2019	\$42.47	\$9.90	\$18.25	\$0.00	\$70.62

**Classification**

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

**Apprentice - MILLWRIGHT - Local 1121 Zone 1**

**Effective Date - 10/01/2016**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$20.88	\$9.90	\$5.17	\$0.00	\$35.95
2	65	\$24.68	\$9.90	\$14.96	\$0.00	\$49.54
3	75	\$28.48	\$9.90	\$15.91	\$0.00	\$54.29
4	85	\$32.27	\$9.90	\$16.84	\$0.00	\$59.01

**Effective Date - 04/01/2017**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$21.38	\$9.90	\$5.17	\$0.00	\$36.45
2	65	\$25.27	\$9.90	\$14.96	\$0.00	\$50.13
3	75	\$29.15	\$9.90	\$15.91	\$0.00	\$54.96
4	85	\$33.04	\$9.90	\$16.84	\$0.00	\$59.78

**Notes:**

Steps are 2,000 hours

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

MORTAR MIXER 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"

OILER (OTHER THAN TRUCK CRANES, GRADALLS) OPERATING ENGINEERS LOCAL 4	12/01/2016	\$22.96	\$10.00	\$15.25	\$0.00	\$48.21
	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) OPERATING ENGINEERS LOCAL 4	12/01/2016	\$26.94	\$10.00	\$15.25	\$0.00	\$52.19
	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 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"

PAINTER (BRIDGES/TANKS) PAINTERS LOCAL 35 - ZONE 2	01/01/2017	\$51.41	\$7.85	\$16.10	\$0.00	\$75.36
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**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**

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PAINTER (SPRAY OR SANDBLAST, NEW) *	01/01/2017	\$42.31	\$7.85	\$16.10	\$0.00	\$66.26
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\* 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**

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PAINTER (SPRAY OR SANDBLAST, REPAINT)	01/01/2017	\$40.37	\$7.85	\$16.10	\$0.00	\$64.32
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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
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\* 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
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PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK) <i>PILE DRIVER LOCAL 56 (ZONE 1)</i> For apprentice rates see "Apprentice- PILE DRIVER"	08/01/2015	\$42.04	\$9.80	\$19.23	\$0.00	\$71.07
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PILE DRIVER <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2015	\$42.04	\$9.80	\$19.23	\$0.00	\$71.07
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**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**

PIPEFITTER & STEAMFITTER <i>PIPEFITTERS LOCAL 537 (Local 138)</i>	03/01/2017	\$48.86	\$9.70	\$16.14	\$0.00	\$74.70
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**Classification**

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

**Apprentice - PIPEFITTER Local 537 (Local 138)**

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$19.54	\$9.70	\$5.50	\$0.00	\$34.74
2	45	\$21.99	\$9.70	\$16.14	\$0.00	\$47.83
3	60	\$29.32	\$9.70	\$16.14	\$0.00	\$55.16
4	70	\$34.20	\$9.70	\$16.14	\$0.00	\$60.04
5	80	\$39.09	\$9.70	\$16.14	\$0.00	\$64.93

**Notes:**

\*\* 1:3; 3:15; 1:10 thereafter / Steps are 1 yr.  
 Refrig/AC Mechanic \*\*1:1;1:2;2:4;3:6;4:8;5:10;6:12;7:14;8:17;9:20;10:23(Max)

**Apprentice to Journeyworker Ratio:\*\***

PIPELAYER	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"

PLUMBER	03/01/2017	\$48.61	\$11.32	\$15.46	\$0.00	\$75.39
PLUMBERS & GASFITTERS LOCAL 12 (Local 138)						

**Apprentice - PLUMBER/GASFITTER - Local 12 (Local 138)**

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$17.01	\$11.32	\$5.74	\$0.00	\$34.07
2	40	\$19.44	\$11.32	\$6.49	\$0.00	\$37.25
3	55	\$26.74	\$11.32	\$8.73	\$0.00	\$46.79
4	65	\$31.60	\$11.32	\$10.23	\$0.00	\$53.15
5	75	\$36.46	\$11.32	\$11.72	\$0.00	\$59.50

**Notes:**

Steps are 1 yr  
 Step 4 with lic\$55.65 Step5 with lic\$61.89

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

PNEUMATIC CONTROLS (TEMP.)	03/01/2017	\$48.86	\$9.70	\$16.14	\$0.00	\$74.70
PIPEFITTERS LOCAL 537 (Local 138)						

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



Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
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"						
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 42</i>	05/01/2016	\$24.15	\$8.49	\$10.68	\$0.00	\$43.32
	04/30/2017	\$24.15	\$8.49	\$11.07	\$0.00	\$43.71
	05/01/2017	\$24.21	\$8.49	\$11.54	\$0.00	\$44.24
	04/30/2018	\$24.21	\$8.49	\$11.96	\$0.00	\$44.66
	05/01/2018	\$24.24	\$8.49	\$12.46	\$0.00	\$45.19
	04/30/2019	\$24.24	\$8.49	\$12.92	\$0.00	\$45.65
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 ** ** 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>	10/01/2016	\$25.69	\$7.07	\$7.18	\$0.00	\$39.94
	04/01/2017	\$26.31	\$7.07	\$7.18	\$0.00	\$40.56
	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	

**Classification**

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

As of 9/1/09 Carpentry work on wood-frame residential WEATHERIZATION projects shall be paid the RESIDENTIAL WOOD FRAME CARPENTER rate.

**Apprentice - CARPENTER (Residential Wood Frame) - Zone 2**

**Effective Date - 10/01/2016**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$15.41	\$7.07	\$0.00	\$0.00	\$22.48
2	60	\$15.41	\$7.07	\$0.00	\$0.00	\$22.48
3	65	\$16.70	\$7.07	\$7.18	\$0.00	\$30.95
4	70	\$17.98	\$7.07	\$7.18	\$0.00	\$32.23
5	75	\$19.27	\$7.07	\$7.18	\$0.00	\$33.52
6	80	\$20.55	\$7.07	\$7.18	\$0.00	\$34.80
7	85	\$21.84	\$7.07	\$7.18	\$0.00	\$36.09
8	90	\$23.12	\$7.07	\$7.18	\$0.00	\$37.37

**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

**Notes:**

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

RIDE-ON MOTORIZED BUGGY 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"

ROLLER/SPREADER/MULCHING MACHINE	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"

ROOFER (Inc.Roofers Waterproofing &Roofers Damproofg)	02/01/2017	\$41.36	\$11.10	\$13.80	\$0.00	\$66.26
ROOFERS LOCAL 33	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	02/01/2017	\$41.61	\$11.10	\$13.80	\$0.00	\$66.51
ROOFERS LOCAL 33	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	02/01/2017	\$43.72	\$11.45	\$23.07	\$2.35	\$80.59
SHEETMETAL WORKERS LOCAL 17 - A	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
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**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 <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.44	\$10.91	\$10.89	\$0.00	\$54.24
SPECIALIZED EARTH MOVING EQUIP > 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.73	\$10.91	\$10.89	\$0.00	\$54.53
SPRINKLER FITTER <i>SPRINKLER FITTERS LOCAL 550 - (Section B) Zone 2</i>	03/01/2017	\$50.47	\$8.77	\$17.20	\$0.00	\$76.44

**Apprentice - SPRINKLER FITTER - Local 550 (Section B) Zone 2**

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$17.66	\$8.77	\$8.70	\$0.00	\$35.13
2	40	\$20.19	\$8.77	\$8.70	\$0.00	\$37.66
3	45	\$22.71	\$8.77	\$8.70	\$0.00	\$40.18
4	50	\$25.24	\$8.77	\$8.70	\$0.00	\$42.71
5	55	\$27.76	\$8.77	\$8.70	\$0.00	\$45.23
6	60	\$30.28	\$8.77	\$10.20	\$0.00	\$49.25
7	65	\$32.81	\$8.77	\$10.20	\$0.00	\$51.78
8	70	\$35.33	\$8.77	\$10.20	\$0.00	\$54.30
9	75	\$37.85	\$8.77	\$10.20	\$0.00	\$56.82
10	80	\$40.38	\$8.77	\$10.20	\$0.00	\$59.35

**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 <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

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TAMPERS, SELF-PROPELLED OR TRACTOR DRAWN 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"						
TELECOMMUNICATION TECHNICIAN ELECTRICIANS LOCAL 103	03/01/2017	\$36.25	\$13.00	\$15.60	\$0.00	\$64.85
	09/01/2017	\$36.96	\$13.00	\$15.62	\$0.00	\$65.58
	03/01/2018	\$37.86	\$13.00	\$15.65	\$0.00	\$66.51
	09/01/2018	\$38.75	\$13.00	\$15.67	\$0.00	\$67.42
	03/01/2019	\$39.65	\$13.00	\$15.70	\$0.00	\$68.35

**Apprentice - TELECOMMUNICATION TECHNICIAN - Local 103**

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$14.50	\$13.00	\$0.44	\$0.00	\$27.94
2	40	\$14.50	\$13.00	\$0.44	\$0.00	\$27.94
3	45	\$16.31	\$13.00	\$12.54	\$0.00	\$41.85
4	45	\$16.31	\$13.00	\$12.54	\$0.00	\$41.85
5	50	\$18.13	\$13.00	\$12.81	\$0.00	\$43.94
6	55	\$19.94	\$13.00	\$13.09	\$0.00	\$46.03
7	60	\$21.75	\$13.00	\$13.37	\$0.00	\$48.12
8	65	\$23.56	\$13.00	\$13.65	\$0.00	\$50.21
9	70	\$25.38	\$13.00	\$13.93	\$0.00	\$52.31
10	75	\$27.19	\$13.00	\$14.21	\$0.00	\$54.40

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$14.78	\$13.00	\$0.44	\$0.00	\$28.22
2	40	\$14.78	\$13.00	\$0.44	\$0.00	\$28.22
3	45	\$16.63	\$13.00	\$12.55	\$0.00	\$42.18
4	45	\$16.63	\$13.00	\$12.55	\$0.00	\$42.18
5	50	\$18.48	\$13.00	\$12.82	\$0.00	\$44.30
6	55	\$20.33	\$13.00	\$13.10	\$0.00	\$46.43
7	60	\$22.18	\$13.00	\$13.39	\$0.00	\$48.57
8	65	\$24.02	\$13.00	\$13.66	\$0.00	\$50.68
9	70	\$25.87	\$13.00	\$13.95	\$0.00	\$52.82
10	75	\$27.72	\$13.00	\$14.22	\$0.00	\$54.94

**Notes:**

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

TERRAZZO FINISHERS BRICKLAYERS LOCAL 3 - MARBLE & TILE	02/01/2017	\$49.70	\$10.75	\$19.22	\$0.00	\$79.67
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**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
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

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
<b>WAGON DRILL OPERATOR</b> <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"						
<b>WASTE WATER PUMP OPERATOR</b> <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"						
<b>WATER METER INSTALLER</b> <i>PLUMBERS &amp; GASFITTERS LOCAL 12 (Local 138)</i>	03/01/2017	\$48.61	\$11.32	\$15.46	\$0.00	\$75.39
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"						
<b>Rental of Equipment - East</b>						
<b>(2 AXLE) DRIVER - EQUIPMENT</b> <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.15	\$10.91	\$0.00	\$0.00	\$43.06
<b>(3 AXLE) DRIVER - EQUIPMENT</b> <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.22	\$10.91	\$0.00	\$0.00	\$43.13
<b>(4 &amp; 5 AXLE) DRIVER - EQUIPMENT</b> <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.34	\$10.91	\$0.00	\$0.00	\$43.25
<b>ADS/SUBMERSIBLE PILOT</b> <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2015	\$88.29	\$9.80	\$0.00	\$0.00	\$98.09
For apprentice rates see "Apprentice- PILE DRIVER"						
<b>ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE</b> <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$45.38	\$10.00	\$0.00	\$0.00	\$55.38
	06/01/2017	\$46.38	\$10.00	\$0.00	\$0.00	\$56.38
	12/01/2017	\$47.38	\$10.00	\$0.00	\$0.00	\$57.38
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
<b>BACKHOE/FRONT-END LOADER</b> <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$45.38	\$10.00	\$0.00	\$0.00	\$55.38
	06/01/2017	\$46.38	\$10.00	\$0.00	\$0.00	\$56.38
	12/01/2017	\$47.38	\$10.00	\$0.00	\$0.00	\$57.38
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
<b>BULLDOZER/GRADER/SCRAPER</b> <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$44.94	\$10.00	\$0.00	\$0.00	\$54.94
	06/01/2017	\$45.93	\$10.00	\$0.00	\$0.00	\$55.93
	12/01/2017	\$46.92	\$10.00	\$0.00	\$0.00	\$56.92
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
<b>CLAM SHELLS/SLURRY BUCKETS/HEADING MACHINES</b> <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$46.38	\$10.00	\$0.00	\$0.00	\$56.38
	06/01/2017	\$47.38	\$10.00	\$0.00	\$0.00	\$57.38
	12/01/2017	\$48.38	\$10.00	\$0.00	\$0.00	\$58.38
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
<b>COMPRESSOR OPERATOR</b> <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$31.17	\$10.00	\$0.00	\$0.00	\$41.17
	06/01/2017	\$31.86	\$10.00	\$0.00	\$0.00	\$41.86
	12/01/2017	\$32.55	\$10.00	\$0.00	\$0.00	\$42.55
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
<b>DIVER</b> <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2015	\$58.86	\$9.80	\$0.00	\$0.00	\$68.66
For apprentice rates see "Apprentice- PILE DRIVER"						



<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
DIVER TENDER <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2015	\$42.04	\$9.80	\$0.00	\$0.00	\$51.84
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	\$0.00	\$0.00	\$72.86
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	\$0.00	\$0.00	\$98.03
For apprentice rates see "Apprentice- PILE DRIVER"						
FLAGGER & SIGNALER <i>LABORERS - ZONE 2</i>	12/01/2016	\$20.50	\$7.60	\$0.00	\$0.00	\$28.10
For apprentice rates see "Apprentice- LABORER"						
FORK LIFT/CHERRY PICKER <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$45.38	\$10.00	\$0.00	\$0.00	\$55.38
	06/01/2017	\$46.38	\$10.00	\$0.00	\$0.00	\$56.38
	12/01/2017	\$47.38	\$10.00	\$0.00	\$0.00	\$57.38
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
GENERATOR/LIGHTING PLANT/HEATERS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$31.17	\$10.00	\$0.00	\$0.00	\$41.17
	06/01/2017	\$31.86	\$10.00	\$0.00	\$0.00	\$41.86
	12/01/2017	\$32.55	\$10.00	\$0.00	\$0.00	\$42.55
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
HOISTING ENGINEER/CRANES/GRADALLS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$45.38	\$10.00	\$0.00	\$0.00	\$55.38
	06/01/2017	\$46.38	\$10.00	\$0.00	\$0.00	\$56.38
	12/01/2017	\$47.38	\$10.00	\$0.00	\$0.00	\$57.38

**Classification**

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

**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	\$0.00	\$0.00	\$37.23
3	65	\$29.50	\$10.00	\$0.00	\$0.00	\$39.50
4	70	\$31.77	\$10.00	\$0.00	\$0.00	\$41.77
5	75	\$34.04	\$10.00	\$0.00	\$0.00	\$44.04
6	80	\$36.30	\$10.00	\$0.00	\$0.00	\$46.30
7	85	\$38.57	\$10.00	\$0.00	\$0.00	\$48.57
8	90	\$40.84	\$10.00	\$0.00	\$0.00	\$50.84

**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	\$0.00	\$0.00	\$37.83
3	65	\$30.15	\$10.00	\$0.00	\$0.00	\$40.15
4	70	\$32.47	\$10.00	\$0.00	\$0.00	\$42.47
5	75	\$34.79	\$10.00	\$0.00	\$0.00	\$44.79
6	80	\$37.10	\$10.00	\$0.00	\$0.00	\$47.10
7	85	\$39.42	\$10.00	\$0.00	\$0.00	\$49.42
8	90	\$41.74	\$10.00	\$0.00	\$0.00	\$51.74

**Notes:**

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

LABORER	12/01/2016	\$31.90	\$7.60	\$0.00	\$0.00	\$39.50
LABORERS - ZONE 2	06/01/2017	\$32.90	\$7.60	\$0.00	\$0.00	\$40.50
	12/01/2017	\$33.53	\$7.60	\$0.00	\$0.00	\$41.13
	06/01/2018	\$34.37	\$7.60	\$0.00	\$0.00	\$41.97
	12/01/2018	\$35.21	\$7.60	\$0.00	\$0.00	\$42.81
	06/01/2019	\$36.08	\$7.60	\$0.00	\$0.00	\$43.68
	12/01/2019	\$36.94	\$7.60	\$0.00	\$0.00	\$44.54

**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	\$0.00	\$0.00	\$26.74
2	70	\$22.33	\$7.60	\$0.00	\$0.00	\$29.93
3	80	\$25.52	\$7.60	\$0.00	\$0.00	\$33.12
4	90	\$28.71	\$7.60	\$0.00	\$0.00	\$36.31

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$19.74	\$7.60	\$0.00	\$0.00	\$27.34
2	70	\$23.03	\$7.60	\$0.00	\$0.00	\$30.63
3	80	\$26.32	\$7.60	\$0.00	\$0.00	\$33.92
4	90	\$29.61	\$7.60	\$0.00	\$0.00	\$37.21

**Notes:**

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

OILER (OTHER THAN TRUCK CRANES,GRADALLS) OPERATING ENGINEERS LOCAL 4	12/01/2016	\$22.96	\$10.00	\$0.00	\$0.00	\$32.96
	06/01/2017	\$23.47	\$10.00	\$0.00	\$0.00	\$33.47
	12/01/2017	\$23.99	\$10.00	\$0.00	\$0.00	\$33.99

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

OILER (TRUCK CRANES, GRADALLS) OPERATING ENGINEERS LOCAL 4	12/01/2016	\$26.94	\$10.00	\$0.00	\$0.00	\$36.94
	06/01/2017	\$27.54	\$10.00	\$0.00	\$0.00	\$37.54
	12/01/2017	\$28.15	\$10.00	\$0.00	\$0.00	\$38.15

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

OTHER POWER DRIVEN EQUIPMENT - CLASS II OPERATING ENGINEERS LOCAL 4	12/01/2016	\$44.94	\$10.00	\$0.00	\$0.00	\$54.94
	06/01/2017	\$45.93	\$10.00	\$0.00	\$0.00	\$55.93
	12/01/2017	\$46.92	\$10.00	\$0.00	\$0.00	\$56.92

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

PANEL & PICKUP TRUCKS DRIVER TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	12/01/2012	\$30.28	\$9.07	\$0.00	\$0.00	\$39.35
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POWER SHOVEL/DERRICK/TRENCHING MACHINE OPERATING ENGINEERS LOCAL 4	12/01/2016	\$45.38	\$10.00	\$0.00	\$0.00	\$55.38
	06/01/2017	\$46.38	\$10.00	\$0.00	\$0.00	\$56.38
	12/01/2017	\$47.38	\$10.00	\$0.00	\$0.00	\$57.38

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

PUMP OPERATOR (CONCRETE) OPERATING ENGINEERS LOCAL 4	12/01/2016	\$45.38	\$10.00	\$0.00	\$0.00	\$55.38
	06/01/2017	\$46.38	\$10.00	\$0.00	\$0.00	\$56.38
	12/01/2017	\$47.38	\$10.00	\$0.00	\$0.00	\$57.38

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

PUMP OPERATOR (DEWATERING, OTHER) OPERATING ENGINEERS LOCAL 4	12/01/2016	\$31.17	\$10.00	\$0.00	\$0.00	\$41.17
	06/01/2017	\$31.86	\$10.00	\$0.00	\$0.00	\$41.86
	12/01/2017	\$32.55	\$10.00	\$0.00	\$0.00	\$42.55

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
ROLLER/SPREADER/MULCHING MACHINE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$44.94	\$10.00	\$0.00	\$0.00	\$54.94
	06/01/2017	\$45.93	\$10.00	\$0.00	\$0.00	\$55.93
	12/01/2017	\$46.92	\$10.00	\$0.00	\$0.00	\$56.92
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
SPECIALIZED EARTH MOVING EQUIP < 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.44	\$10.91	\$0.00	\$0.00	\$43.35
SPECIALIZED EARTH MOVING EQUIP > 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.73	\$10.91	\$0.00	\$0.00	\$43.64
TRACTORS/PORTABLE STEAM GENERATORS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2016	\$44.94	\$10.00	\$0.00	\$0.00	\$54.94
	06/01/2017	\$45.93	\$10.00	\$0.00	\$0.00	\$55.93
	12/01/2017	\$46.92	\$10.00	\$0.00	\$0.00	\$56.92
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	\$0.00	\$0.00	\$43.93
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.						
VAC-HAUL/CATCH BASIN CLEANING <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.44	\$10.91	\$0.00	\$0.00	\$43.35

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.

## **SECTION 01 33 23: SUBMITTAL PROCEDURES**

### **PART 1 - GENERAL**

#### **1.1 SUMMARY**

- A. This Section includes requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.

#### **1.2 GENERAL SUBMITTAL PROCEDURES**

- A. Submittals shall be sent to the Owner's Representative via email in PDF format. Hard/paper copies are not desired. Physical samples shall be delivered to the Owner's Representative in person or from a shipping company.
- B. The Owner's Representative has 7 days to review the submittals and return them to the Contractor, also in PDF format.
- C. Transmittal: Include a transmittal with each submittal identifying the item clearly.

### **PART 2 - PRODUCTS-not used**

### **PART 3 - EXECUTION-not used**

**END OF SECTION 01 33 23  
SUBMITTALS**

## **SECTION 01 35 23: SAFETY REQUIREMENTS**

### **PART 1 - GENERAL**

#### **1.1 SUMMARY**

- A. The work of this section consists of establishing an effective accident prevention program and providing a safe environment for all personnel and visitors.

#### **1.2 QUALITY ASSURANCE**

- A. Comply with contract clauses, Federal, state, and local safety and health requirements, the most stringent shall apply. Equipment or tools not meeting OSHA requirements will not be allowed on the project sites. Failure to comply with the requirements of this section and related sections may result in suspension of work.
- B. Qualifications of Employees:
  - 1. All employees must be physically qualified and able to perform their assigned duties in a safe manner.
  - 2. Do not allow employees to perform work whose ability or alertness is impaired because of prescription or illegal drug use, fatigue, illness, intoxication, or other conditions that may expose themselves or others to injury.
  - 3. Operators of vehicles, mobile equipment, hoisting equipment, and hazardous plant equipment shall be able to understand signs, signals, and operating instructions, and be fully capable of operating such equipment. Provide operating instructions for all equipment. Newly hired operators shall be individually tested by an experienced operator or supervisor to determine if they are capable of safely operating equipment.

### **PART 2 - PRODUCTS**

#### **2.1 ACCIDENT PREVENTION PLAN**

- A. The Plan shall be written to comply with OSHA and project requirements.

#### **2.2 FIRST AID FACILITIES**

- A. Provide adequate facilities for the number of employees and the hazards associated with the types of ongoing construction work at the site.

#### **2.3 PERSONNEL PROTECTIVE EQUIPMENT**

- A. Meet requirements of applicable ANSI standards.

**PART 3 - EXECUTION**

**3.1 EMERGENCY INSTRUCTIONS**

- A. Post telephone numbers and reporting instructions for ambulance, physician, hospital, fire department, and police in conspicuous locations at the work site.

**3.2 FIRE AND LIFE SAFETY**

- A. Comply with the requirements of NFPA 241 (Standard for Safeguarding Construction, Alteration, and Demolition Operations).
- B. Store hazardous materials in accordance with manufacturer's and OSHA recommendations. Maintain readily available, on site, MSDS for each chemical.
  - 1. Maintain a spill emergency response kit.

**3.3 PROTECTIVE EQUIPMENT**

- A. Inspect personal protective equipment daily and maintain in a serviceable condition. Clean, sanitize, and repair personal items, as appropriate, before issuing them to another individual.
- B. Inspect and maintain other protective equipment and devices before use and on a periodic basis to ensure safe operation.

**3.4 HARD HATS AND PROTECTIVE EQUIPMENT AREAS**

- A. A hard hat area shall be designated by the Contractor. The hard hat area shall be posted by the Contractor in a manner satisfactory to the Owner's Representative.
- B. It is the Contractor's responsibility to require all those working on or visiting the site to wear hard hats and other necessary personal protective equipment at all times.

**END OF SECTION 01 35 23  
SAFETY REQUIREMENTS**

## **SECTION 01 50 00: TEMPORARY FACILITIES AND CONTROLS**

### **PART 1 - GENERAL**

#### **1.1 SUMMARY**

- A. This Section includes requirements for temporary utilities, support facilities, and security and protection facilities.

#### **1.2 USE CHARGES**

- A. General: Cost or use charges for temporary facilities shall be included in the Contract Sum as required.
- B. Water Service: Water from existing water system is available for use with metering and with payment of use charges. Provide connections and extensions of services as required for construction operations.
- C. Electric Power Service: Electric power from existing system is available for use with metering and with payment of use charges. Provide connections and extensions of services as required for construction operations.

#### **1.3 PROJECT CONDITIONS**

- A. Temporary Use of Permanent Facilities: Installer of each permanent service shall assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner acceptance, regardless of previously assigned responsibilities.

### **PART 2 - PRODUCTS**

#### **2.1 MATERIALS**

- A. Temporary materials may be new or used, but must be adequate in capacity for the required usage, must not create unsafe conditions, and must not violate requirements of applicable codes and standards.
- B. Safety Barrier Fence: Orange plastic fence, minimum height, 4 feet
- C. Barrier Tape: Yellow tape Imprinted with "CAUTION: CONSTRUCTION AREA", manufactured by Reef Industries, Inc., Houston, Texas, or approved equal.

#### **2.2 TEMPORARY FACILITIES**

- A. Sufficiently lighted and ventilated toilet facilities in weatherproof, sight proof, handicap accessible, sturdy enclosures with privacy locks.

#### **2.3 EQUIPMENT**

- A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.



**PART 3 - EXECUTION**

**3.1 INSTALLATION, GENERAL**

- A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.
  - 1. Locate facilities to limit site disturbance and as directed by the Owner's Representative.
- B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

**3.2 TEMPORARY UTILITY INSTALLATION**

- A. General: Install temporary service or connect to existing service.
- B. Potable water is not available on site. Furnish cool, potable water for construction personnel in locations convenient to work stations.
- C. Sanitary Facilities: Provide temporary toilets, and wash facilities for use by construction personnel.
  - 1. Place in approved locations secluded from public observation and convenient to work stations. Relocate as work progress requires.
  - 2. Maintain and clean toilet facilities at least weekly.
  - 3. Completely remove sanitary facilities on completion of work.
- D. Electric Power Service: Use of existing electric power service will be permitted.
  - 1. When temporary connections are removed, restore existing utility services to their original condition.
- E. Telephone Service: No telephone service is available on site for Contractor's use. Make arrangements with Telephone Company and pay all costs.

**3.3 SUPPORT FACILITIES INSTALLATION**

- A. Dewatering Facilities and Drains: Comply with requirements of authorities having jurisdiction. Maintain Project site, excavations, and construction free of water.
  - 1. Dispose of rainwater in a lawful manner that will not result in flooding Project or adjoining properties nor endanger permanent Work or temporary facilities.
- B. Project Identification and Temporary Signs:
  - 1. Provide temporary, directional signs for construction personnel and visitors.
  - 2. Maintain and touchup signs so they are legible at all times.
- C. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction.

**3.4 SECURITY AND PROTECTION FACILITIES INSTALLATION**

- A. Contractor is responsible for securing the work site to restrict public access during clearing operations.

- B. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction in ways and by methods that comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
- C. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241.

**3.5 OPERATION, TERMINATION, AND REMOVAL**

- A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.
- B. Maintenance: Maintain facilities in good operating condition until removal.
- C. Termination and Removal: Remove each temporary facility when need for its service has ended, no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.

**END OF SECTION 01 50 00**  
TEMPORARY FACILITIES AND CONTROLS

## **SECTION 01 77 00: CLOSEOUT PROCEDURES**

### **PART 1 - GENERAL**

#### **1.1 SUMMARY**

- A. This Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
  - 1. Substantial Completion and Final Inspection.
  - 2. Final cleaning.

#### **1.2 SUBSTANTIAL COMPLETION AND FINAL INSPECTION**

- A. When project, or designated portion of project, is substantially complete, request in writing a final inspection. Upon receipt of written request that project is substantially complete, the Owner's Representative will proceed with inspection within 3 days of receipt of request or will advise the Contractor of items that prevent the project from being designated as substantially complete.
- B. If, following final inspection, the work is determined to be substantially complete, Owner's Representative will prepare a Punch List to be corrected before final acceptance and issue a Letter of Substantial Completion. Contractor shall complete the work described on the Punch List within 7 calendar days, as weather permits. If the Contractor fails to complete the work within this time frame, the Owner's Representative may either replace or correct the work with an appropriate reduction in the contract price or charge for re-inspection costs in accordance with the Inspection of Construction clause of the contract.
- C. If, following final inspection, the work is not determined to be substantially complete; Owner's Representative will notify Contractor in writing. After completing work, Contractor shall request a new final inspection. All re-inspection costs may be charged against the Contractor in accordance with the Inspection of Construction clause of the contract.

#### **1.3 FINAL ACCEPTANCE OF THE WORK**

- A. Prior to requesting inspection for verification of completion of all outstanding items.
- B. After all deficiencies have been corrected, a Letter of Final Acceptance will be issued.

### **PART 2 - PRODUCTS- NOT USED**

### **PART 3 - EXECUTION**

#### **3.1 FINAL CLEANING**

- A. General: Provide final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
- B. Cleaning: Employ experienced workers for final cleaning. Comply with manufacturer's written instructions.
  - 1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a portion of Project:

FORT PICKERING SITE IMPROVEMENTS – PHASE 2

- a. Clean Project site, yard, and grounds, in areas disturbed by clearing activities of rubbish, waste material, litter, and other foreign substances.
- b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
- c. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.
- d. Remove tools, machinery, and surplus material from Project site.
- e. Remove labels that are not permanent.
- f. Leave Project clean and ready for occupancy.

**END OF SECTION 01 77 00**  
CLOSEOUT PROCEDURES

## SECTION 04 10 00: MASONRY REPAIRS

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. The work of this Section consists of providing all labor, equipment, materials, incidental work, and construction methods necessary to furnish and install designated Site Improvements and related items as indicated on the Contract Documents, as specified in this Section, and includes, but is not limited to, the following:
  - 1. Dry Laid Stone Wall Repairs
  - 2. Wet Laid Stone Wall and Brick Vault Repairs
  - 3. Stainless Steel Reinforcement Elements

#### 1.3 REFERENCES

- A. The following standards shall apply to the work of this Section:
  - ASTM A276- Threaded Round Stainless Steel Bar Stock.
  - ASTM C144 - Sand for Mortar and Grout
  - ASTM C1713 – Mortar for the Repair of Historic Masonry

#### 1.4 SUBMITTALS

- A. Manufacturer's Product Literature (Required Prior to Ordering):
  - 1. Replacement Brick.
- B. Fully Detailed Manufacturer's Shop Drawings (prior to fabrication):
  - 1. Cintec Anchors.
  - 2. Stainless Steel Rods and Plates.
- C. Documentation of stone masons' experience of practice, including photographs and references.

#### 1.5 QUALITY ASSURANCE

- A. All work shall be done by experienced "Historic" stone masons with at least 10 years of practical experience in similar work.

### PART 2 - PRODUCTS

#### 2.1 STONE

- A. All New Stone shall be square, rectangular and angular granite. Stone pile shall be maintained in a neat and contained area, and unused stone will be removed at the end of the project. Clean up of remaining stone fragments and dust as well as scattered unused stone units that are not within the contained area

shall be the responsibility of the Contractor.

## 2.2 BRICK

- A. Brick: provide new ASTM C216, Grade SW, Low Absorption. Minimum strength shall be 8,000 psi, maximum water absorption shall be 8%. New units shall match size and shape of existing surrounding brick. Color shall be one shade darker than the existing brick in its present condition.

## 2.3 MORTAR AND MORTAR MATERIALS

- A. Mortar for Wet Laid Wall and Vault Reconstruction and Buried Surface Parging shall meet ASTM C1713 Proportion Specification as follows: 1 part Portland Cement, 1 part Hydrated Lime, 5.5 to 6 parts bulked Sand. Sand shall be blended and pigments added as necessary to match the texture, coarseness and color of the existing mortar(s) to be matched. Pigments shall be chemically pure mineral oxides, alkali proof and light fast.
- B. Portland Cement: Type 1 white satisfying ASTM C150 complying with staining requirements of ASTM C91 for not more than 0.03% water soluble alkali. Mortar shall show no efflorescence when cast in a 2" x 7" x 1/2" slab consisting of 1 part of the cement to be used, 2 parts Ottawa plastic mortar sand and distilled water, and subjected to a 7 day "wick test" conforming to ASTM C67.
- C. Hydrated Lime: ASTM C207, Type S.
- D. Sand For mortar and grout: ASTM C144, washed, to match surrounding in color where visible, clean, fine and free of salts.

## 2.4 ACCESSORIES

- A. Stainless steel pins, plates and ties shall meet the requirements of ASTM A276, Type 316.
- B. CINTEC Ties and Anchors (where indicated on the Contract Documents as "Cintec Anchors"): "Cintec Anchors" as detailed, manufactured and supplied by CINTEC America Inc., as available through Conspex Associates of North Haven, CT. NOTE: These are patented, proprietary components that are required by the specific scope of work and needs of this project and for which no substitution or facsimile will be accepted. All Cintec Anchors shall have shanks composed of Grade 2205 Stainless Reinforcing Steel.
- C. Mortar Washdown Cleaner: "Sureclean 600" as manufactured by ProSoCo Corp.
- D. Stone Patching Mortar: An approved cement or latex based proprietary patching mortar for granite that is appropriate for filling around drilled plug biscuits.
- E. Adhesive and selant for pin setting shall be equal or equivalent to Sikadur Injection Gel and Tremco 2 part urethane, respectively.

## PART 3 – EXECUTION

### 3.1 DISMANTLING OF LOOSENED WET LAID MASONRY

- A. Remove displaced and collapsed portions of wall where indicated on the Drawings. Maintain safe and stable conditions in the surrounding construction.
- B. Document and mark existing displaced stonework for reassembly in the same positions.
- C. Remove displaced wall construction down to stable subgrade or to stable, undisplaced underlying wall construction as confirmed by the Engineer.

### 3.2 WET LAID MASONRY REPAIR AND RECONSTRUCTION

- A. Lay masonry units as follows:
  - 1. Re-set dismantled loosened stonework using the same units within their same positions and orientations.
  - 2. Lay new stonework that replaces missing stonework using units of similar size, arrangement and orientation to the corresponding adjacent pre-existing construction.
  - 3. Replace missing bricks at the base of the entry vault using a combination of full and trimmed units that replicate the size, spacing, shape, orientation and coursing of the corresponding adjacent pre-existing construction.
  - 4. Re-set flat sided capstone to proper orientation and alignment, matching the orientation and reveal of the corresponding capstone to the south.
- B. At bed joints, provide chinkers and shims as needed to help “float” the masonry units on the mortar bed, being careful not to rock the units on the shims and create air voids or cavities in the mortar bed.
- C. At head and collar joints, fill the gaps between stone ends solidly with mortar, adding chinkers where greater than 1” thickness, in order to minimize shrinkage and sloughing.
- D. Facing stones shall be re-set to within ½” of their previous positions and surface alignments, or within 1” of the surrounding planes if stones did not previously exist.
- E. Bricks shall be set within 3/16” of the extrapolated orientations of the corresponding adjacent units, and within 1/8” of the established planes within which they are arranged.
- F. Tool all mortar joints to match the corresponding existing construction to remain.
- F. Provide a 1” thick stucco parge layer of mortar over all reconstructed and exposed bare masonry surfaces that are to be buried under soil.
- G. Work under this subsection shall only be done when the ambient air, material, and substrate temperatures are above 40 degrees F. by 9:00 AM and rising.

### 3.3 CHINKING AND REPAIR OF DRY LAID STONE WALLS

- A. Provide temporary lateral bracing and support to walls as needed to maintain safe conditions and prevent shifting of the masonry during the work.
- B. Locate all loose existing units by attempting to wiggle them and drive stone chinkers and shims into joints until units are tight.
- C. Insert new stone units into existing gaps of greater than 4” width.
  - 1. Attempt to fill each gap with one single stone unit, or at the most two units that are vertically stacked, or three where gaps are more than four times longer than they are wide when measured on the exposed face.
  - 2. All filler stones shall run continuously into the gaps by full depth of the gap, or at least three quarters of the gaps’ depths depths if greater than 18”.
  - 3. All stones shall be supported on at least three solid points of bearing, and then wedged tightly into place by chinking shimming stones along all other sides.
- D. Fill spaces remaining open joints and gaps between stones with angular stone chinkers. These shall be wedged into place so that they do not fall out, and shall have a horizontal depth into the wall of at least three times their vertical height, but in no case less than 6.

- E. Do not leave any voids in walls greater than one third cubic foot in volume.
- F. Orient stones for best alignment of face and uniformly random distribution of stone size and shape.
- G. All stones shall be as close to horizontally oriented as possible with no stones inclined at more than 30 degrees from the horizontal.
- H. Match the external appearance and arrangement of the surrounding work (actually matching the original arrangement where documented), providing a similar spacing, stone size distribution, joint width, coursing and flatness to the original.
- G. Complete the above work before core drilling holes and installing Cintec Anchors, and do not remove temporary lateral bracing until at least 7 days after installation of anchors.

### **3.4 INSTALLATION OF CINTEC ANCHORS**

- A. Coordinate design and installation of Cintec anchoring system with manufacturer.
- B. Forward contract drawings, required load information and description of conditions to a representative of Cintec America, Inc. and arrange site visit to observe existing conditions and review installation.
- C. Cintec America shall provide written verification of design load and installation and shall provide additional installation requirements and instructions. Submit to Engineer for review before proceeding with installation. Adjustments shall be made if necessary to the anchor design at no additional cost to the owner but no adjustments shall be made in diameter of rod nor reduction in embedment.
- D. Satisfy Cintec contractor training and certification requirements and successfully complete at least 4 trial anchor installations in field satisfaction of a qualified Cintec representative (unless more are required to obtain certification).
- E. Thoroughly clean off and flush out all grout leakage from the Cintec socks before it hardens and mars the stone surfaces. Do not allow grout or drilling spoil to enter the adjacent waterways.
- F. Recess ends of anchors as shown. After sufficient hardening, cut off grouting tubes and fill exposed core holes at stone surfaces with cut off ends of drilled cores and fill annular space with a color matching repair mortar.

### **3.5 CURING, CLEANING, AND ACCEPTANCE**

- A. Moist cure all wet laid masonry work maintaining in a constantly damp state for an appropriate period to promote optimum curing but for a period of at least 48 hours following placement, protecting with plastic sheeting or approved method to retain humidity.
- B. The Engineer will review all work upon completion and before the affected areas are planted or backfilled. Prior to review, the Contractor will remove all temporary supports and shall clean all externally exposed surfaces, removing all surface applied mortar and grout, all staining, and all temporary stone markings.
- C. Reconstructed walls shall match the photographs taken during the pre-dismantling documentation with the same units located at the same relative locations, but with restored surfaces that are planar and true.

**-END OF SECTION 04 10 00-  
MASONRY REPAIRS**



## SECTION 31 10 01: SITE PREPARATION

### PART 1-GENERAL

#### 1.1 RELATED DOCUMENTS

- A. The General Documents, as listed on the Table of Contents, and applicable parts of Division 1, GENERAL REQUIREMENTS, shall be included in and made a part of this Section.
- B. Examine all Contract Documents and all other Sections of the Specifications for requirements therein affecting the work of this trade.

#### 1.2 SUMMARY

- A. The work of this Section consists of providing all labor, equipment, materials, incidental work, and construction methods necessary to prepare the site, complete, as indicated on the Contract Documents, as specified, and as follows:
  - 1. Protection of existing structures and utilities
  - 2. Construction Fence
  - 3. Erosion Control
  - 4. Salvage, stockpile on site, and reuse materials
  - 5. Salvage materials and stockpile off site
  - 6. Removal and disposal of materials
  - 7. Graffiti removal

#### 1.3 RELATED WORK UNDER OTHER SECTIONS

- A. The following items of related work are specified and included in other Sections of the Specifications:
  - 1. SECTION, EARTH MOVING; Excavation and backfill.

#### 1.4 PROTECTION

- A. Do not interfere with use of adjacent buildings or facilities. Maintain free and safe passage to and from adjacent buildings and facilities or both and between them and the public way.
- B. Cease operations and notify Owner immediately if safety of adjacent structures, workers, or the general public appears to be endangered. Take precautions to properly support structures and protect workers and general public. Do not resume operations until safety is restored.
- C. Prevent movement, settlement or collapse of adjacent services, sidewalks, driveways and trees. Assume liability for such movement, settlement, or collapse. Promptly repair damage at no cost to the Owner.

#### 1.5 ARCHEOLOGICAL PROTECTION

- A. The entire project area is an archeologically sensitive area. If Contractor discovers potential archeological resources, Contractor shall contact the City and relocate work to non-sensitive areas until directed further.

#### 1.6 SUBMITTALS

- A. Manufacturer's literature for graffiti remover
- B. Mockup showing graffiti removal process for approval by Owner's Representative.

## **PART 2-PRODUCTS**

### **2.1 CONSTRUCTION FENCE**

- A. Plastic polymer safety fence, Model BX2050 Safety Grid, manufactured by The Tensar Corporation, Morrow, GA 30260, or approved equal.
  - 1. Color shall be high visibility orange. Stakes for fencing shall be (50.8 mm) x 4 in. (101.6 mm) wood posts, driven a minimum of 3 ft. (0.92 m) into the ground. Posts shall be spaced 8 ft. (2.73 m) o.c. maximum.

### **2.2 EROSION CONTROL JUTE BLANKET**

- A. Jute blanket shall be ECC-2B manufactured by East Coast Erosion Control, or approved equal.
  - 1. Erosion control product shall be made with uniformly 100% coconut fiber and two organic jute nets securely sewn together with biodegradable thread.
  - 2. Product shall meet Type 4 specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17
  - 3. Staples to anchor erosion control blanket shall be 6" long steel.

### **2.3 GRAFFITI REMOVER**

- A. Strippers for Removing Graffiti from Stone: Test each of the following, or approved equal:
  - 1. Peel Away 1 followed by Peel Away Neutralizer, manufactured by Dumond Chemicals, Inc.
  - 2. Peel Away 7, manufactured by Dumond Chemicals, Inc.
  - 3. Sure Klean, Fast Acting Stripper, manufactured by ProSoCo., Inc.
  - 4. Sure Klean Heavy Duty Paint Stripper, manufactured by ProSoCo., Inc.
  - 5. HT-350-Epoxy and Urethane Paint Remover, as manufactured by Hydrochemical Techniques, Inc.

## **PART 3-EXECUTION**

### **3.1 PROTECTION OF EXISTING STRUCTURES AND UTILITIES**

- A. Existing structures and utilities shall be suitably protected from damage, including but not limited to existing pavements and curbs, site walls, lighting, fencing, manholes, and utility lines.
- B. Provide and install erosion and sedimentation control at all existing catch basins, manholes and all other utility structures as identified on the drawings.

### **3.2 CONSTRUCTION FENCE**

- A. Construction fence shall remain in place and be maintained in working condition by the Contractor until directed for removal by the Owner's Representative. All fencing shall be removed from the site by the Contractor at the completion of the work.

### **3.3 SALVAGE, STOCKPILE ON SITE, AND REUSE MATERIALS**

- A. Materials indicated on the Contract Documents or designated by the Owner's Representative in the field to be salvaged shall be carefully removed, protected from damage, and put in temporary storage as follows:
  - 1. Salvaged material shall be stockpiled on-site in an area designated by the Owner's

Representative.

2. Salvage material shall include but are not limited to the following:
  - a. Stone masonry

All construction staging and materials storage shall be limited to the construction work area.

### **3.4 REMOVAL AND DISPOSAL OF MATERIALS**

- A. Materials indicated on the Contract Documents or designated by the Owner's Representative in the field to be removed shall be dismantled, removed, and legally disposed of off-site as indicated on the Contract Documents and as specified, performed and paid for in this SECTION, SITE PREPARATION. Removals include but are not limited to the following:
  1. Invasive plant species
  2. Plywood & framing for Magazine C
  3. Miscellaneous steel gate components
- B. Material resulting from the site preparation work and not scheduled to be salvaged and which is unsuitable for reuse on the project, shall become the property of the Contractor and shall be legally disposed of off-site.
- C. Debris, rubbish, and other material shall be disposed of promptly and shall not be left until final cleanup of site.
- D. Existing site structures indicated on the Contract Documents to be removed, shall be completely dismantled and removed from the site.
- E. Areas formerly occupied by structures shall be regraded to conform with surrounding topography following demolition.

### **3.5 EROSION CONTROL**

- A. Erosion control shall be constructed and installed as indicated on the Contract Documents, prior to start of clearing and grubbing operations or any earthwork operations.
  1. Install staples at a minimum 12" o.c. Overlap erosion control blanket at seams minimum of 12".

### **3.6 MAINTENANCE AND REMOVAL OF EROSION CONTROL DEVICES**

- A. Erosion Control Devices
  1. Sediment behind the erosion control device shall be checked twice each month and after each heavy rain. Silt shall be removed if greater than 6 in. (150 mm) deep.
  2. Condition of erosion control device shall be checked twice each month or more frequently as required. Damaged and/or deteriorated items shall be replaced. Erosion control devices shall be maintained in place and in effective condition.
- B. Removal of Erosion Control Devices: Erosion control devices shall be maintained until all disturbed earth has been paved or vegetated, at which time they shall be removed.
  1. Erosion protection material shall be kept securely anchored and in place until acceptance of stabilized, erosion and sediment controlled slope.

2. All temporary erosion control devices and accessories shall be completely removed at completion of project and legally disposed of off site at no additional cost to the Owner.
3. After erosion control devices are removed, areas disturbed by these devices shall be regraded and seeded and all adjacent areas repaired to a condition equal with the adjacent lawns or plantings.

**3.7 GRAFFITI REMOVAL**

- A. General: Remove paint from stone using strippers and form of stripper (liquid, gel, and/or poultice) selected during testing and confirmed during mock-up to achieve masonry surface free of paint.
- B. Stripper Application and Removal: Apply stripper following method of application and dwell time determined during testing and confirmed during mock-ups. Remove stripper and paint following manufacturer's directions. Rinse surface thoroughly using high pressure water. Pressure wash the entire surface of the stone wall so there is uniform cleaning to all stones, not just those that had graffiti.
- C. Additional Removal: Repeat above procedure as necessary to achieve uniformly clean masonry free of paint with surface matching standard of approved mock-up.

**END OF SECTION 31 10 01  
SITE PREPARATION**

## SECTION 31 11 00: SITE CLEARING

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. The work of this Section consists of providing all labor, equipment, materials, incidental work, and construction methods necessary to prepare the site, complete, as indicated on the Contract Documents, as specified, and as follows:

- 1. Treating phragmites

#### 1.3 SUBMITTALS

- A. Submit proof of applicator's license for herbicide application to the Owner's Representative.

#### 1.4 REFERENCES

- A. The following standards shall apply to the work of this Section.

- 1. Associated General Contractors of America, Inc. (AGC):  
Manual of Accident Prevention in Construction

#### 1.5 PERMITS, CODES, AND SAFETY REQUIREMENTS

- A. Comply with all rules, regulations, laws and ordinances of the City and State, and all other authorities having jurisdiction over the project site. All labor, materials, equipment and services necessary to make the work comply with such requirements shall be provided by the Contractor without additional cost to the Owner.
- B. Comply with the provisions of the Manual for Accident Prevention in Construction of the Associated General Contractors of America, Inc., and the requirements of the Occupational Safety and Health Administration, United States Department of Labor.
- C. The Contractor shall secure a DIG-SAFE permit number for the project to certify notification of gas, electrical and telephone utilities. All other affected utilities shall be contacted by the Contractor who shall secure notification receipts in accordance with requirements of Massachusetts law. The phone number is 1-888-DIG-SAFE. Contractors shall notify "Dig-Safe" of contemplated excavation, demolition or explosive work in public or private ways, and utility company right-of-way or easement. This notification shall be made at least 72 hours prior to the work, but not more than sixty days before the contemplated work. Such notice shall set forth the name of the street or the route number of said way and an accurate description of the location and nature of the proposed work. The Owner's Representative requires that the notification be sent to "Dig-Safe" by certified mail, with copies to the Owner. The Architect requires a copy of the signed receipt of the delivery. "Dig-Safe" is required to respond to the notice within 72 hours from the time said notice is received by designating at the locus the location of pipes, mains, wires and conduits. Contractor shall not commence work until "Dig-Safe" has responded as noted above. The work shall then be performed in such a manner, and

with reasonable precaution taken to avoid damage to utilities under the surface in said areas of the work.

- D. Contractor shall contact all utility companies whose utilities might be affected by the Work and notify these utility companies of contemplated excavation, demolition or explosive work in public or private ways, and utility right-of-way easement. This notification shall be made at least 72 hours prior to the work, but not more than sixty days before the contemplated work. Such notice shall set forth the name of the street or the route number of said way and an accurate description of the location and nature of the proposed work. Contractor shall secure notification receipts for submission to the Owner's Representative prior to the start of the contemplated work. Contractor shall not commence work until all utility companies have responded and provided the necessary receipts. The work shall then be performed in such a manner, and with reasonable precaution taken to avoid damage to utilities under the surface in said areas of the work.

**1.6 PROTECTION OF EXISTING STRUCTURES AND UTILITIES**

- A. Observe all rules and regulations governing the respective utilities in executing work herein. The work shall be executed in such manner as to prevent any damage to adjacent property and any other property and existing improvements such as, but not limited to: streets, curbs, paving, utility lines and structures, monuments, bench marks and other public and private property. Protect existing structures and foundations from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by operations.
- B. In case of any damage or injury caused in the performance of the work, the Contractor shall, at his own expense, make good such damage or injury to the satisfaction of, and without cost to the Owner. Existing roads, sidewalks, and curbs damaged during the project work shall be repaired or replaced to their original condition at the completion of operations. The Contractor shall replace, at his own cost, existing bench marks, monuments, and other reference points which are disturbed or destroyed.
- C. Buried structures, utility lines, and the like, including those which project less than 18 in. (457 mm) above grade, which are subject to damage from construction equipment shall be clearly marked to indicate the hazard. Markers shall indicate limits of danger areas, by means which will be clearly visible to operators of trucks and other construction equipment, and shall be maintained at all times until completion of Project.
- D. Locate and mark underground utilities to remain in service before beginning the work. Protect all existing utilities to remain during operations. Do not interrupt existing utilities except when authorized in writing by authorities having jurisdiction.
- E. When an active utility line is exposed during construction its location and elevation shall be plotted on the Record Drawing by the Contractor and both the Owner's Representative and the Utility Owner notified in writing.
- F. Provide barricades, fences, lights, signs, and all other safety devices required for the protection of the public.

**1.7 ARCHEOLOGICAL PROTECTION**

- A. The entire project area is an archeologically sensitive area. If Contractor discovers potential archeological resources, Contractor shall contact the City and relocate work to alternate areas until directed further.

**1.8 QUALITY ASSURANCE**

- A. Spraying of insecticides or herbicides shall be done by State-licensed professionals. All insecticides, pesticides, and herbicides shall be EPA-approved and shall conform to the requirements of the State of Massachusetts. Contractor shall provide proof of experience in the control of phragmites.

**PART 2 - PRODUCTS**

**2.1 HERBICIDE**

- A. Herbicide shall be specifically formalized for use for each application and vegetation type within this scope of work.

**PART 3 – EXECUTION**

**3.1 CLEARING**

- A. Herbicide to be applied to all phragmites stems. Herbicide shall include a colored dye to identify which stems have been treated. All herbicide to be applied when temperatures are above freezing and during the time frame stated herein.

**3.2 INVASIVE VEGETATION MANAGEMENT**

- A. Invasive plant species are to be controlled in this scope of work. Below is a list of the species that are to be addressed and the methods to be employed:
  1. Schedule the work so that herbicide application can occur between July and September.
  2. Cut all phragmites stem flush with ground or water in advance of herbicide treatment. Time cutting to allow phragmites to grow 8-12” prior to herbicide treatment. Dispose of phragmites off site.
  3. Wipe individual phragmites stems with herbicide treated glove.
  4. Apply herbicide when rain is not forecasted for 24 hours before or after application.

**3.3 PROTECTION OF EXISTING TREES AND VEGETATION**

- A. The Contractor shall make every effort not to damage existing plant materials to remain. The Contractor is required to install protection as necessary to assure undamaged plant material and adjacent conditions.
- B. Vehicles shall not be parked within the dripline or where damage may result to trees to be saved. Construction materials shall not be stored beneath trees to be saved.
- C. Repair/replace vegetation that is damaged at no additional cost to Owner. Employ certified arborist to repair damaged trees.

**3.4 REMOVAL AND DISPOSAL OF MATERIALS**

- A. Materials indicated on the Contract Documents or designated by the Owner’s Representative in the field to be removed shall be removed and legally disposed of off-site as indicated on the Contract Documents and as specified, performed and paid for in this SECTION, SITE CLEARING. Removals include but are not limited to the following:

1. Phragmites

- B. Material resulting from the site clearing work and not scheduled to be salvaged and which is unsuitable for reuse on the project, shall become the property of the Contractor and shall be legally disposed of off-site.
- C. Debris, rubbish, and other material shall be disposed of promptly and shall not be left until final cleanup of site.

**-END OF SECTION 31 11 00-  
SITE CLEARING**



## **SECTION 32 33 00: SEEDING**

### **PART 1-GENERAL**

#### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Specification Sections, apply to this Section.

#### **1.2 SUMMARY**

- A. The work of this Section consists of providing all labor, equipment, materials, incidental work, and construction methods necessary to perform all lawn installation and fine grading work and related items as indicated on the Contract Documents and/or as specified in this Section and includes, but is not necessarily limited to, the following:

1. Seeding
2. Maintenance and protection

#### **1.3 REFERENCES**

- A. Not Applicable.

#### **1.4 SUBMITTALS**

- A. At least 30 days prior to intended use, the Contractor shall provide the following samples and submittals for approval in conformance with the requirements of Section, SUBMITTALS. Do not order materials until Owner's Representative's approval of samples, certifications or test results has been obtained. Delivered materials shall closely match the approved samples. Acceptance shall not constitute final acceptance. The Owner's Representative reserves the right to reject on or after delivery any material that does not meet these Specifications.

1. Material Sampling and Testing of Loam Borrow from Off-Site Sources shall be specified, performed and paid for herein of this Specification.
2. Seed: Submit a manufacturer's Certificate of Compliance to the Specifications with each shipment of each type of seed. These certificates shall include the guaranteed percentages of purity, weed content and germination of the seed, and also the net weight and date of shipment. No seed may be sown until the Contractor has submitted the certificates.
3. Limestone: Submit supplier's certification that the limestone being supplied conforms to these Specifications.
4. All additives needed to amend a specific soil in order to meet these specifications.
5. Erosion control matting: Submit 4 copies of manufacturer's literature and one material sample.

#### **1.5 EXAMINATION OF CONDITIONS**

- A. All areas to be improved shall be inspected by the Contractor before starting work and any defects such as incorrect grading, or drainage problems shall be reported to the Owner's Representative prior to beginning this work. The commencement of work by the Contractor shall indicate his acceptance of the areas to be improved, and he shall assume full responsibility for the work of this Section, SEEDING.
- B. The Contractor shall be solely responsible for judging the full extent of work requirements involved.

**1.6 QUALITY ASSURANCE**

- A. Qualification of Landscape Contractor: The work of this Section, SEEDING, shall be performed by a landscape contracting firm which has successfully installed work of a similar quality, schedule requirement, and construction detailing with a minimum of five years experience. Proof of this experience shall be submitted per SUBMITTALS paragraph of this Section, SEEDING.

**PART 2 - PRODUCTS**

**2.1 LOAM**

- A. Loam borrow shall be one of the following loamy sands and sandy loams; “loamy sand”, “loamy fine sand”, “loamy very fine sand”, or “coarse sandy loam”: determined by mechanical analysis (ASTM D 422) and based on the "USDA Classification System" and as defined in this Section. It shall be of uniform composition, without admixture of subsoil. It shall be free of stones greater than 0.75 inches (19 mm) lumps, plants and their roots, debris and other extraneous matter as determined by the Owner’s Representative.

Planting soil for lawn areas shall have the following grain size distribution for material passing the #10 (2.0 mm) sieve:

<u>Millimeter</u>	<u>Percent Passing by Weight</u>	
	<u>Maximum</u>	<u>Minimum</u>
2	-----	100
1	100	82
0.5	87	65
0.25	72	49
0.10	45	30
0.05	32	22
0.002	5	2

- 1. Maximum size shall be one and one quarter inches largest dimension. The maximum retained on the #10 sieve shall be 25% by weight of the total sample.
- 2. The ratio of the particle size for 80% passing (D<sub>80</sub>) to the particle size for 30% passing (D<sub>30</sub>) shall be 6.0 or less. (D<sub>80</sub>/D<sub>30</sub> < 6.0).
- 3. In addition to the foregoing, all loam borrow to be used for loaming and seeding shall be mechanically screened processed loam borrow that passes a 3/4 inch by 6 inch (19 mm by 150 mm) screen size.

- B. Organic content and pH for specific planting use shall be as follows:

- 1. Areas planted with turf grasses herein of this Specification:
  - a. pH: 6.0 through 7.0
  - b. Organic Content 4.0 - 6.0 percent as determined by the loss on ignition of oven-dried samples passing #10 sieve (Muffle furnace temperature: 450 +/- 10 degrees C for 8 hours)
- 2. Loam borrow shall be pH adjusted for particular planting applications and shall be adjusted prior to delivery to the Project sites as recommended by UMASS Soil & Plant Tissue Laboratory test results.
  - a. When pH of loam borrow is equal to or greater than 7 use aluminum sulfate to adjust pH downward to required levels.
  - b. When pH of loam borrow is less than 7 use either sulfur or ferrous sulfate to adjust pH downward to required levels.
  - c. When pH of loam borrow must be raised to the required levels use limestone.
  - d. Regardless of amendment Contractor chooses to use, Contractor, not the Owner, shall be responsible for obtaining specified pH by seeding and/or planting time.

- C. All loam borrow proposed for use shall be tested for conformance to the specifications. Soil additives shall be used to counteract soil deficiencies as recommended by the soils analysis and as supplements for lawn construction as specified herein.
- D. The Owner's Representative reserves the right to reject on or after delivery to the project site any material which does not, in his opinion, meet these specifications.

**2.2 SOIL ADDITIVES**

- A. Soil additives shall be specified, and provided herein.

**2.3 SEED**

- A. Seed mixture shall be fresh, clean, new crop seed. Grass shall be of the previous year's crop and in no case shall the weed seed content exceed 0.25% by weight. The seed shall be furnished and delivered in the proportion specified below in new, clean, sealed and properly labeled containers. All seed shall comply with State and Federal seed laws. Submit manufacturer's Certificates of Compliance. Seed that has become wet, moldy or otherwise damaged shall not be acceptable. Chewings fescue, hard fescue, tall fescue and rygrass shall contain *Acromonium* endophytes. Seed containing endophyte must be kept cool and dry at all times; do not stockpile in the sun.

1. Seed Mixture #1 Composition

Chewings Fescue	30%
Creeping Red Fescue	30%
Rough Bluegrass	20%
Annual Ryegrass	20%

- a. Seeding rate for Seed Mix #1 shall be 4 pounds per 1,250 square feet.

**2.4 FERTILIZERS**

- A. Do not apply fertilizer on this site due to the proximity to coast and wet ditches.

**2.5 LIMESTONE**

- A. Ground limestone for adjustment of loam borrow pH shall contain not less than 85 percent of total carbonates and shall be ground to such fineness that 40 percent will pass through 100 mesh sieve and 95 percent will pass through a 20 mesh sieve. Contractor shall be aware of loam borrow pH and the amount of lime needed to adjust pH to specification in accordance with testing lab recommendations.

**2.6 WATER**

- A. Water from existing water system is available for use with metering and with payment of use charges. Provide connections and extensions of services as required for construction operations.

**PART 3-EXECUTION**

**3.1 FILLING AND COMPACTION**

- A. Filling and compaction of loam shall be specified, performed and paid for under the work of the Section 32 32 00, PLANTING SOILS, of this Specification.

**3.2 FINE GRADING**

- A. Fine grading shall be specified, performed and paid for under the work herein, of this Specification.

**3.3 SEEDING**

- A. Contractor shall obtain Owner's Representative's written approval of fine grading and bed preparation before doing any seeding.
- B. Limit of grading and earthwork shall be limit of seeding unless otherwise indicated on the Contract Documents. All areas disturbed outside the limit of seeding shall be prepared and seeded as specified herein at no additional cost.
- C. The season for seeding shall be from April 1 to June 1 and from August 15 to October 30. The actual planting of seed shall be done, however, only during periods within this season which are normal for such work as determined by weather conditions and by accepted practice in this locality. To prevent loss of soil via water and wind erosion and to prevent the flow of sediment, fertilizer, and pesticides onto roadways, sidewalks, and into catch basins, seed loam areas within 5 Days of spreading the loam.
- D. Seed only when the bed is in a friable condition, not muddy or hard.

**3.5 LAWN MAINTENANCE**

- A. Maintenance shall begin immediately after any area is seeded and shall continue for a 60 day active growing period for seeded areas or until Final Acceptance, whichever is longer; following the completion of all lawn construction work, and until final acceptance of the project. [\* In the event that seeding operations are completed too late in the Fall for adequate germination and growth of grass, then maintenance shall continue into the following Spring for the minimum 60 Day period. In addition, install blankets or netting to prevent loam degradation and movement over the winter. Submit product literature and samples to the Owner's Representative for review. Blankets and netting shall be placed in a timely manner at no additional cost to the Owner.
- B. Maintenance shall include reseeding, watering, weeding, and resetting and straightening of protective barriers.
- C. During the maintenance period, any decline in the condition of seeded areas shall require immediate action to identify potential problems and to undertake corrective measures.
- D. Watering shall be done in a manner that will provide uniform coverage, prevent erosion due to application of excessive quantities over small areas, and prevent damage to the finished surface by the watering equipment.
  - 1. The Contractor shall provide all labor and arrange for all watering necessary to establish an acceptable lawn. In the absence of adequate rainfall, watering shall be performed daily or as often as necessary to maintain moist soil to a depth of at least 2 inches for seeded areas.
  - 2. Watering shall be done in a manner that will provide uniform coverage, prevent erosion due to application of excessive quantities over small areas, and prevent damage to the finished surface by the watering equipment. The Contractor shall furnish sufficient watering equipment to apply water to the required soil depths each 8-hour period.
- E. Protection
  - 1. Lawn areas shall be protected by construction fencing until grass is 4" tall.
  - 2. Barriers must be raised immediately after lawn construction and shall be maintained until Acceptance.
- F. After the grass in seeded areas has germinated, reseed all areas and parts of areas that fail to show a uniform stand of grass. Reseed such areas and parts of areas repeatedly until all areas are covered with a satisfactory growth of grass with no less than 20 grass shoots per square inch and 2880 grass shoots per square foot. Reseeding together with necessary grading, and trimming shall be done at the Contractor's expense.

**3.6 APPLYING LIMESTONE**

- A. The Contractor shall return to the site at the beginning of the next seeding season and spread limestone across all lawn areas installed under this Contract. The work of liming the fields shall be as specified herein of this Specification, and performed and paid for under this Section, SEEDING. Limestone shall be spread at rates determined by the soil tests specified, performed and paid for herein.

**3.7 ACCEPTANCE OF SEED**

- A. Following the minimum required maintenance periods for construction, the Contractor shall request the Owner's Representative in writing for a formal inspection of the completed work. Request for inspection shall be received by the Owner's Representative at least 10 Days before anticipated date of inspection.
- B. Acceptance Requirements
  - 1. At the end of the maintenance period, seeded areas shall show complete germination of specified grass species such that:
    - a. No weeds present.
    - b. No bare spots greater than 12 inches in diameter over greater than 10% of overall seeded area.
  - C. At least 90 percent of the grass and forbs established shall be permanent grass and forb species. If seeded areas are deficient, the Contractor's responsibility for maintenance of all seeded areas shall be extended until deficiencies are corrected. Seeded areas to be corrected shall be prepared and reseeded in accordance with the requirements of this Section.
  - D. Owner's Representative's inspection shall determine whether maintenance shall continue in any part.

**3.8 CLEAN UP**

- A. Absolutely no debris may be left on the site. Excavated material shall be removed as directed. Repair any damage to site or structures to restore them to their original condition, as directed by the Owner's Representative, at no cost to the Owner.

**END OF SECTION 32 33 00  
SEEDING**