# TOWN OF ARLINGTON MASSACHUSETTS INVITATION TO BID # 16-25 ARLINGTON HIGH SCHOOL RUNNING TRACK REPAIR & RESURFACING

Sealed bids are invited and will be received by the Town Manager, Town of Arlington, Massachusetts, until <u>11:00 A.M., Tuesday, June 14, 2016</u> at the Office of the Purchasing Agent, Town Hall, Arlington, Massachusetts 02476, at which time and place they will be publicly opened and read.

A BID DEPOSIT IN THE FORM OF CASH, CERTIFIED CHECK, OR TREASURER'S CHECK, shall accompany every bid. The amount of such bid deposit shall be FIVE PERCENT (5%) of the value of the bid.

Specifications and proposal forms will be available at the Office of the Purchasing Agent, Town Hall, Arlington, Massachusetts. All bids must be in sealed envelopes plainly marked:

# BID ON: BID # 16-25 ARLINGTON HIGH SCHOOL RUNNING TRACK REPAIR & RESURFACING

The conditions of employment as set forth in Sections 26 to 27D and 27F of Chapter 149 of the General Laws, as amended, shall prevail in the execution of the work under this contract.

Attention is called to the fact that minimum wage rates and health and welfare and pension fund contributions are established for this contract and are a part of the specifications.

Work under this contract shall be governed by M.G.L.Ch.30, Sec.39M.

Pre-bid Site Visit will be held Wednesday, June 1, 2016 at 10:00 AM, High School Field, 869 Mass Ave., Arlington, MA. All prospective bidders are encouraged to attend.

It is the intention of the Owner to award the Contract to the lowest qualified responsive bidder. The bidder must submit a bid on all bid items in the Contract.

To receive consideration, bids must be in the hands of the Purchasing Agent or his authorized representative not later than the day and hour above mentioned. For further information relative to this bid, please confer with Domenic R. Lanzillotti, Director, Purchasing Department, Town Hall, Arlington, Massachusetts, 02476.

OSHA Construction Training Required: As of July 1, 2006, under M.G.L. – Chapter 30, Section 39s, any person, submitting a bid for, or signing a contract to work on, the construction, reconstruction, alteration, remodeling or repair of any public work by the Commonwealth of Massachusetts/Town of Arlington, and estimated by the awarding Authority to cost more than \$10,000, shall certify on the Bid or Contract, under penalty of perjury, that all employees to be employed at the work 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

The Town Manager reserves the right to cancel any invitation for bids, to reject in whole or in part any and all bids, when it is deemed in the best interest of the Town of Arlington to do so.

TOWN OF ARLINGTON

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Adam Chapdelaine Town Manager

Date: May 25, 2016

# I INSTRUCTION TO BIDDERS

# 1. Receipt of Bids

The Town may consider informal any bid not prepared and submitted in accordance with the provisions hereof and may waive any informality in or reject any bids. Any bid may be withdrawn before the time for the opening of bids. Any bid received after the time and date specified shall not be considered. No bidder may withdraw his/her bid for a period of 30 days, excluding Saturdays, Sundays, and legal holidays after actual date of the opening thereof.

# 2. Preparation of Bid

Each bid shall be submitted on the forms attached to these documents. The bid forms may be removed and submitted separately from the other documents. All blank spaces for bid prices must be filled in with the unit price for the item or the lump sum for which the proposal is made. Bidders must bid on each item. All entries in the entire proposal must be made clearly, and prices written in both words and figures in the spaces provided.

Each bid must be in a sealed envelope addressed to the Office of the Purchasing Agent, 730 Massachusetts Avenue, Arlington, Massachusetts, 02476; and bearing on the outside the name of the bidder, his/her address, the name of the project for which the bid is submitted, and the notation 'BID # 16-25 ARLINGTON HIGH SCHOOL RUNNING TRACK REPAIR & RESURFACING

# 3. Bid Security

Every bid submitted by contractors shall be accompanied by a bid deposit in the form of cash, certified check, treasurer's or cashier's check, or a bid bond issued by a responsible bank or trust company and made payable to the Town of Arlington. The amount of the bid deposit shall be 5% of the amount of the bid. All security except those of the three lowest responsible and eligible bidders will be returned within ten days, Saturdays, Sundays, and legal holidays excluded, after opening of the bid. All bid securities will be returned on the execution of the contract or if no award is made within 30 days, excluding Saturdays, Sundays, and legal holidays, after the actual date of the opening thereof, unless forfeited under the conditions herein stipulated.

In case a party to whom a contract is awarded shall fail or neglect to execute the contract and furnish the satisfactory bond in the time specified, the Town may determine the bidder has abandoned the contract and thereupon the proposal and acceptance shall be null and void, and the bid security accompanying the proposal shall be forfeited to the Town as liquidation damages for such failure or neglect and indemnify the Town for any loss which may be sustained by failure of the bidder to execute the contract and furnish the bonds as aforesaid, provided that, in case of death, disability, or other unforeseen circumstances affecting the bidder, such bid security may be returned to him/her.

After execution of the contract and acceptance of the bonds by the Town, the bid security accompanying the proposal of the successful bidder will be returned.

# 4. Time of Completion

The bidder must agree to commence work within five (5) business days from the date of signing the contract and to fully complete the project within the time specified within the Special Provisions section of this document.

#### 5. Performance and Labor Material Bonds

A performance bond in the sum of 50% of the total amount of the Contract by the successful bidder and an additional bond in equal amount covering the payment for all labor and materials used in the work will be required. A surety company authorized to do business in Massachusetts and satisfactory to the Town of Arlington must provide these bonds. These bonds will be required at the execution of the contract. Attorneys-in-fact who sign contract bonds must file with each bond a certified and effectively dated copy of their power of attorney.

# 6. Laws and Regulations

The bidder's attention is directed to the fact that all applicable State laws, Town of Arlington Bylaws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the contract throughout, and they shall be deemed to be included in the contract the same as though herein written out in full.

# 7. Withdrawal of Bids

Upon proper written request and identification, Bids may be withdrawn only as follows:

- a. At any time before the designated time for the opening of Bids.
- b. Death or serious injury of a principal.
- c. With the written approval of the Town of Arlington Office of the Purchasing Director.
- d. At any time after the expiration of the period during which withdrawal is prohibited provided the bid has not been accepted by the Town.

#### 8. Execution of Contract

The party to whom the contract is awarded shall be required to execute the contract and furnish the bonds duly executed with a satisfactory surety company within five days, excluding Saturdays, Sundays, and legal holidays, of the date of the mailing of the notice to the bidder according to the address given by him/her, that the contract is ready for execution.

# 9. Obligation of Bidder

At the time of the opening of bids, each bidder shall be presumed to have read and to be thoroughly familiar with the contract documents. The failure or omission of any bidder to receive or examine any form, instrument, or documents shall in no way relieve any bidder from the obligation in respect to his bid.

#### 10. Omissions, Discrepancies, Interpretations and Addenda

Should a bidder find discrepancies in, or omissions from, the drawings or contract documents, or should he/she have questions as to the interpretation of the plans or contract documents he/she shall submit such in writing to the Director of Purchasing at least five (5) days before the date herein set for the opening of bids. An interpretation will be mailed by certified mail to prospective bidders at the addresses given by them on or about two (2) days before the opening of bids. Signed copies of all addenda shall be included with the bid; omission of the signed addendum shall be cause for rejection of the bid.

#### 11. Record of Address

Prospective bidders shall at the time plans and specifications are secured place on file with the Director of Purchasing their address, and are required to make any changes necessary to insure that the record is accurate, complete, and up to date.

# 12. Massachusetts Sales and Use Tax

Materials purchased for permanent installation in the work will be exempt from the Massachusetts Sales and Use tax. Each bidder shall consider this exemption in calculating his/her bid for the work.

#### 13. State Tax Affidavit

Prospective bidders are required to certify that all state tax returns have been filed and all state taxes have been paid in order to be eligible to enter into a contract with the Town on this project. The included form is to be used for this purpose and is to be completed and returned as part of the bid and proposal.

# 14. Minimum Wage Rates

Prevailing rates for wages for work performed under this Contract will be as predetermined by the Commissioner of Labor and Industries of the Commonwealth of Massachusetts in accordance with the provisions of Sections 26 to 27D, inclusive, of c.149 of M.G.L. A schedule of the prevailing wages is included in the Minimum Wage Rates Section.

#### 15. Sub-bids

No sub bids shall be sought in connection with this Contract.

- 16. All bidders shall submit the following supplemental information with a fee proposal:
- a. Name, address and phone number of a minimum of three (3) references that can vouch for the performance of the bidder
- b. Proof of Liability and Worker's Compensation Insurance Coverage
- c. Completed tax attestation form
- d. Bid deposit

#### II LOCATION OF WORK

1. Work under this contract includes all labor, materials, equipment and supervision necessary to perform Repair & Resurfacing of the Arlington High School Running Track, 869 Mass Ave., Arlington, MA.

Attention is called to the fact that work under this Contract can start No Sooner than July 1, 2016 and Must Be Completed by July 31, 2016.

#### III PROPOSAL

To the Town of Arlington, Massachusetts, herein called the TOWN, acting through its Town Manager; the undersigned, as bidder, declares as follows:

- a. The only persons or parties interested in this proposal as Principals are named in this proposal;
- b. This proposal is made without collusion with any other Person, firm or corporation;
- c. He has carefully examined the requirements of the proposed work;
- d. This proposal is based solely on his own investigation and research and not in reliance upon any survey, report or representations of any employee, officer or agent of the TOWN; and the undersigned proposes and agrees that if this proposal is accepted, he will contract with the TOWN, this Contract Bid Form being part of and included in said CONTRACT, to provide all necessary supervision, labor, equipment, machinery, tools, apparatus, and other means of service necessary to complete the requirements in the CONTRACT; and that he will take in full payment thereof the following sums to wit:

# **BID PROPOSAL FORM**

BID #16-25

PROJECT:	Arlington High School Running Track Repair & Resurfacing 869 Mass Ave. Arlington, MA	
DATE:	TUESDAY JUNE 14, 2016 @ 11:00 A.M.	
above refere	and in compliance with the proposed Contract Documents dated May 25, 2016, relating to enced project, the undersigned, hereby proposes and agrees to furnish all labor and material all work within the time stated and in strict accordance with the proposed Contract and addenda thereto, for Repair & Resurfacing of the Arlington High School Running Trac	als
ADDENDA:_		
1. <u>Arlin</u>	ngton High School Running Track Repair & Resurfacing	
Com	abor services, miscellaneous materials, tools, equipment and supervision necessary for the opletion of the entire project as stated in the Specifications, or properly inferable there from accordance with the Contract Documents.	
\$	TOTAL BID PRICE	
WORK MUS	ST BE COMPLETED BY JULY 31, 2016	
FIRM NAME	<u></u>	
ADDRESS		
PHONE NO.	·	
FAX NO.		
EMAIL:		
AUTHORIZE	ED SIGNATURE	

PRINT AUTHORIZED NAME \_\_\_\_\_

# Arlington High School Running Track

# Repair and Resurfacing

Provide and install a 2 layer (5,5 lbs per sy) SBR granules/Plexitrac Binder respray (or equivalent product) to entire existing track surface This will be followed by a Plexitrac Coating (or equivalent product) application and new lines. Surface area includes track and D area (2) (Approx. 5,900 sy).

All Work to be performed per Manufacturer's Specifications.

#### CERTIFICATE OF 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 individual submitting bid or proposal)

(Name of individual submitting bid or proposal)

Name of Business

Date

Pursuant to M.G.L. Chapter 62C, Section 49A, I certify under the penalties of perjury that I have complied with all laws of the commonwealth relating to taxes, reporting of employees and contractors, and withholding and remitting child support.



Signature of Individual or Responsible

Corporate Officer and Title

Social Security Number or

Federal Identification Number

# **OSHA TRAINING**

The undersigned hereby certifies that it 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 a t 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 it will comply fully with all laws and regulations applicable to awards made subject to section forty-four A of Chapter 149 of the General Laws.

Signature	:
Title:	
Date:	

To view and print Weekly Payroll & Statement of Compliance Forms, click on www.mass.gov/dols/pw.

PLEASE NOTE: The attached Prevailing Wage Schedule is valid for 90 days. An Awarding Authority should re-request an up to date Prevailing Wage Schedule if it has NOT opened bids or selected a contractor within 90 days of the issuance date of the attached prevailing wage schedule.

\*For MULTI-YEAR projects bid on or after 8/8/08, Awarding Authorities must request an Annual Update to this Prevailing Wage Schedule each year for the duration of the project, no later than two weeks before the anniversary date of the execution of the general contract. Annual updates are not required for projects that last LESS THAN ONE YEAR.

\*For CM AT RISK projects (bid pursuant to GL c.149A), Awarding Authorities must request a Prevailing Wage Schedule NOT sooner than 90-days before the earlier of: (a) the execution date of the GMP Amendment, or (b) the bid for the first construction scope of work.

\*For MULTI-YEAR CM AT RISK projects, Awarding Authorities must request an Annual Update to this Prevailing Wage Schedule each year for the duration of the project, no later than two weeks before the anniversary date, which is the earlier of: (a)the execution date of the GMP Amendment, or (b) the execution date of the first amendment to procure construction scopes of work.

Apprentice wages (expressed as dollar figures) and the required benefits are listed on the Prevailing Wage Schedule. For further details, please see opinion letter PW-2010-03-03.16.10 (dated March 18, 2010) at www.mass.gov/dols/pw.

Request Prevailing Wage Rates online at: www.mass.gov/dols/pw.

THIS IS A SYSTEM-GENERATED EMAIL. PLEASE DO NOT REPLY TO THIS EMAIL. TO CONTACT DLS REGARDING PREVAILING WAGE MATTERS, CALL 617-626-6953.

#### APPROVAL/DENIAL COMMENTS

This e-mail message, including any attachments, is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure, or distribution is strictly prohibited and may be the subject of legal action. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Thank you.



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

# **Prevailing Wage Rates**

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

RONALD L. WALKER, II Secretary WILLIAM D MCKINNEY Director

Awarding Authority:

Town of Arlington

**Contract Number:** 

16-25 City/Town: ARLINGTON

**Description of Work:** 

Provide all labor, materials, equipment and supervision necessary for Arlington High School Running Track

Repairs & Resurfacing as per specifications

Job Location:

869 Mass Ave.

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

**Issue Date:** 05/18/2016 **Wage Request Number:** 20160518-058

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
Construction						
(2 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	12/01/2015	\$32.75	\$10.41	\$10.08	\$0.00	\$53.24
TEAMSTERS JOINT COONCIL NO. 10 ZONE A	06/01/2016	\$33.25	\$10.41	\$10.08	\$0.00	\$53.74
	08/01/2016	\$33.25	\$10.91	\$10.08	\$0.00	\$54.24
	12/01/2016	\$33.25	\$10.91	\$10.89	\$0.00	\$55.05
(3 AXLE) DRIVER - EQUIPMENT	12/01/2015	\$32.82	\$10.41	\$10.08	\$0.00	\$53.31
TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	06/01/2016	\$33.32	\$10.41	\$10.08	\$0.00	\$53.81
	08/01/2016	\$33.32	\$10.91	\$10.08	\$0.00	\$54.31
	12/01/2016	\$33.32	\$10.91	\$10.89	\$0.00	\$55.12
(4 & 5 AXLE) DRIVER - EQUIPMENT	12/01/2015	\$32.94	\$10.41	\$10.08	\$0.00	\$53.43
TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	06/01/2016	\$33.44	\$10.41	\$10.08	\$0.00	\$53.93
	08/01/2016	\$33.44	\$10.91	\$10.08	\$0.00	\$54.43
	12/01/2016	\$33.44	\$10.91	\$10.89	\$0.00	\$55.24
ADS/SUBMERSIBLE PILOT PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2015	\$88.29	\$9.80	\$19.23	\$0.00	\$117.32
For apprentice rates see "Apprentice- PILE DRIVER"						
AIR TRACK OPERATOR	12/01/2015	\$36.10	\$7.45	\$13.55	\$0.00	\$57.10
LABORERS - ZONE I	06/01/2016	\$36.85	\$7.45	\$13.55	\$0.00	\$57.85
For apprentice rates see "Apprentice- LABORER"	12/01/2016	\$37.85	\$7.45	\$13.55	\$0.00	\$58.85
ASBESTOS REMOVER - PIPE / MECH. EQUIPT. HEAT & FROST INSULATORS LOCAL 6 (BOSTON)	12/01/2015	\$34.38	\$10.40	\$5.95	\$0.00	\$50.73
ASPHALT RAKER	12/01/2015	\$35.60	\$7.45	\$13.55	\$0.00	\$56.60
LABORERS - ZONE I	06/01/2016	\$36.35	\$7.45	\$13.55	\$0.00	\$57.35
	12/01/2016	\$37.35	\$7.45	\$13.55	\$0.00	\$58.35
For apprentice rates see "Apprentice- LABORER"						
ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE OPERATING ENGINEERS LOCAL 4	12/01/2015	\$43.73	\$10.00	\$14.90	\$0.00	\$68.63
OF ERATING ENGINEERS LOCAL 4	06/01/2016	\$44.48	\$10.00	\$14.90	\$0.00	\$69.38
	12/01/2016	\$45.73	\$10.00	\$14.90	\$0.00	\$70.63
	06/01/2017	\$46.73	\$10.00	\$14.90	\$0.00	\$71.63
	12/01/2017	\$47.73	\$10.00	\$14.90	\$0.00	\$72.63
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BACKHOE/FRONT-END LOADER  OPERATING ENGINEERS LOCAL 4	12/01/2015	\$43.73	\$10.00	\$14.90	\$0.00	\$68.63
	06/01/2016	\$44.48	\$10.00	\$14.90	\$0.00	\$69.38
	12/01/2016	\$45.73	\$10.00	\$14.90	\$0.00	\$70.63
	06/01/2017	\$46.73	\$10.00	\$14.90	\$0.00	\$71.63
The state of the s	12/01/2017	\$47.73	\$10.00	\$14.90	\$0.00	\$72.63
For apprentice rates see "Apprentice- OPERATING ENGINEERS"  DARGO TYPE HAMPING TAMBER						
BARCO-TYPE JUMPING TAMPER LABORERS - ZONE 1	12/01/2015	\$35.60	\$7.45	\$13.55	\$0.00	\$56.60
	06/01/2016	\$36.35	\$7.45	\$13.55	\$0.00	\$57.35
For apprentice rates see "Apprentice- LABORER"	12/01/2016	\$37.35	\$7.45	\$13.55	\$0.00	\$58.35
BLOCK PAVER, RAMMER / CURB SETTER	10/01/2015	¢27.10	¢7.45	¢12 55	\$0.00	Φ <i>E</i> <b>7</b> 10
LABORERS - ZONE I	12/01/2015	\$36.10	\$7.45	\$13.55	\$0.00	\$57.10
	06/01/2016	\$36.85	\$7.45	\$13.55	\$0.00	\$57.85
For apprentice rates see "Apprentice- LABORER"	12/01/2016	\$37.85	\$7.45	\$13.55	\$0.00	\$58.85

 Issue Date:
 05/18/2016
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Step	percent	01/01/2016	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
1	65		\$27.05	\$6.97	\$10.54	\$0.00	\$44.56	
2	65		\$27.05	\$6.97	\$10.54	\$0.00	\$44.56	
3	70		\$29.13	\$6.97	\$11.35	\$0.00	\$47.45	
4	75		\$31.22	\$6.97	\$12.16	\$0.00	\$50.35	
5	80		\$33.30	\$6.97	\$12.97	\$0.00	\$53.24	
6	85		\$35.38	\$6.97	\$13.78	\$0.00	\$56.13	
7	90		\$37.46	\$6.97	\$14.59	\$0.00	\$59.02	
8	95		\$39.54	\$6.97	\$15.40	\$0.00	\$61.91	
Effec Step	etive Date -	01/01/2017	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	
Note	s:							
App	rentice to Jo	urneyworker Ratio:1:5						
		ASONRY (INCL. MASONR	Y 02/01/2010	5 \$49.86	\$10.18	\$19.14	\$0.00	\$79.1
ERPROOFING)			08/01/2016	5 \$50.76	\$10.18	\$19.22	\$0.00	\$80.1

**Effective Date** 

01/01/2016

01/01/2017

Base Wage

\$41.62

\$42.92

Health

\$6.97

\$6.97

Pension

\$16.21

\$16.21

Classification

BOILER MAKER

BOILERMAKERS LOCAL 29

Supplemental

\$0.00

\$0.00

Unemployment

**Total Rate** 

\$64.80

\$66.10

**Issue Date:** 05/18/2016 **Wage Request Number:** 20160518-058 **Page 3 of 35** 

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

Pension

	Effecti	ive Date - 02/01/2016	Misor Local 5 Boston			Supplemental		
	Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
	1	50	\$24.93	\$10.18	\$19.14	\$0.00	\$54.25	
	2	60	\$29.92	\$10.18	\$19.14	\$0.00	\$59.24	
	3	70	\$34.90	\$10.18	\$19.14	\$0.00	\$64.22	
	4	80	\$39.89	\$10.18	\$19.14	\$0.00	\$69.21	
	5	90	\$44.87	\$10.18	\$19.14	\$0.00	\$74.19	
	Effecti	ive Date - 08/01/2016				Supplemental		
	Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
	1	50	\$25.38	\$10.18	\$19.22	\$0.00	\$54.78	
	2	60	\$30.46	\$10.18	\$19.22	\$0.00	\$59.86	
	3	70	\$35.53	\$10.18	\$19.22	\$0.00	\$64.93	
	4	80	\$40.61	\$10.18	\$19.22	\$0.00	\$70.01	
	5	90	\$45.68	\$10.18	\$19.22	\$0.00	\$75.08	
	Notes:							
	Appre	entice to Journeyworker Ratio:1:5						
BULLDOZER/			12/01/201:	5 \$43.31	\$10.00	\$14.90	\$0.00	\$68.21
OPERATING ENGI	NEEKS LO	OCAL 4	06/01/2010	6 \$44.06	\$10.00	\$14.90	\$0.00	\$68.96
			12/01/2010	6 \$45.29	\$10.00	\$14.90	\$0.00	\$70.19
			06/01/2017	7 \$46.28	\$10.00	\$14.90	\$0.00	\$71.18
			12/01/2017	7 \$47.27	\$10.00	\$14.90	\$0.00	\$72.17
		"Apprentice- OPERATING ENGINEERS"						
CAISSON & U Laborers - foui		PINNING BOTTOM MAN  JAND MARINE	12/01/201:	5 \$36.45	\$7.45	\$13.75	\$0.00	\$57.65
ENDORERO TOC	12111011	III II III III III II II II II II II II	06/01/2010	6 \$37.20	\$7.45	\$13.75	\$0.00	\$58.40
For apprentice	rates see !	"Apprentice- LABORER"	12/01/2010	6 \$38.20	\$7.45	\$13.75	\$0.00	\$59.40
		PINNING LABORER	12/01/201:	5 \$35.30	\$7.45	\$13.75	\$0.00	\$56.50
LABORERS - FOU	NDATION	AND MARINE	06/01/2010			\$13.75	\$0.00	\$57.25
			12/01/2010			\$13.75	\$0.00	\$58.25
For apprentice	rates see '	"Apprentice- LABORER"						
		PINNING TOP MAN	12/01/201:	5 \$35.30	\$7.45	\$13.75	\$0.00	\$56.50
LABORERS - FOU	NDATION	AND MARINE	06/01/2010	6 \$36.05	\$7.45	\$13.75	\$0.00	\$57.25
			12/01/2010	6 \$37.05	\$7.45	\$13.75	\$0.00	\$58.25
		"Apprentice- LABORER"						
CARBIDE COI Laborers - zone		LL OPERATOR	12/01/201	5 \$35.60	\$7.45	\$13.55	\$0.00	\$56.60
LIDORDING - ZONI	- 1		06/01/2010	6 \$36.35	\$7.45	\$13.55	\$0.00	\$57.35
For apprentice	rates see '	"Apprentice- LABORER"	12/01/2010	6 \$37.35	\$7.45	\$13.55	\$0.00	\$58.35

		03/01/201	\$20.00	47.00			40
		03/01/2017	7 \$39.05	\$9.80	\$16.82	\$0.00	\$65.6
		09/01/2017	7 \$40.06	\$9.80	\$16.82	\$0.00	\$66.6
		03/01/2013	8 \$41.06	\$9.80	\$16.82	\$0.00	\$67.6
		09/01/2013	8 \$42.10	\$9.80	\$16.82	\$0.00	\$68.7
		03/01/2019	9 \$43.13	\$9.80	\$16.82	\$0.00	\$69.7
	ntice - <i>CARPENTER - Zone 2 East</i> ive Date - 03/01/2016	ern MA					
Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
1	50	\$18.55	\$9.80	\$1.63	\$0.00	\$29.98	
2	60	\$22.26	\$9.80	\$1.63	\$0.00	\$33.69	
3	70	\$25.97	\$9.80	\$11.93	\$0.00	\$47.70	
4	75	\$27.83	\$9.80	\$11.93	\$0.00	\$49.56	
5	80	\$29.68	\$9.80	\$13.56	\$0.00	\$53.04	
6	80	\$29.68	\$9.80	\$13.56	\$0.00	\$53.04	
7	90	\$33.39	\$9.80	\$15.19	\$0.00	\$58.38	
8	90	\$33.39	\$9.80	\$15.19	\$0.00	\$58.38	
	ive Date - 09/01/2016				Supplemental		
Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
1	50	\$19.04	\$9.80	\$1.63	\$0.00	\$30.47	
2	60	\$22.85	\$9.80	\$1.63	\$0.00	\$34.28	
3	70	\$26.66	\$9.80	\$11.93	\$0.00	\$48.39	
4	75	\$28.56	\$9.80	\$11.93	\$0.00	\$50.29	
5	80	\$30.46	\$9.80	\$13.56	\$0.00	\$53.82	
6	80	\$30.46	\$9.80	\$13.56	\$0.00	\$53.82	
7	90	\$34.27	\$9.80	\$15.19	\$0.00	\$59.26	
8	90	\$34.27	\$9.80	\$15.19	\$0.00	\$59.26	
Notes	:						
	entice to Journeyworker Ratio:1:5						

**Effective Date** 

03/01/2016

09/01/2016

Base Wage

\$37.10

\$38.08

Health

\$9.80

\$9.80

Classification

CARPENTER

CARPENTERS -ZONE 2 (Eastern Massachusetts)

Supplemental

\$0.00

\$0.00

Unemployment

Pension

\$16.82

\$16.82

**Total Rate** 

\$63.72

\$64.70

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Pension

**Total Rate** 

	Effecti Step	ve Date - 01/01/2016 percent		entice Base Wage	Health		Pension	Supplemental Unemployment	Total Ra	ite
-	1	50		\$23.22	\$10.90		\$12.21	\$0.00	\$46.3	33
	2	60		\$27.86	\$10.90		\$13.71	\$1.30	\$53.7	77
	3	65		\$30.19	\$10.90		\$14.71	\$1.30	\$57.1	10
	4	70		\$32.51	\$10.90		\$15.71	\$1.30	\$60.4	42
	5	75		\$34.83	\$10.90		\$16.71	\$1.30	\$63.7	74
	6	80		\$37.15	\$10.90		\$17.71	\$1.30	\$67.0	06
	7	90		\$41.80	\$10.90		\$18.71	\$1.30	\$72.7	71
-	Notes:									1
İ		Steps 3,4 are 500 hrs. <i>A</i>	All other steps are 1,00	00 hrs.						
	Appre	ntice to Journeyworker	Ratio:1:3							
CHAIN SAW OPERATOR ABORERS - ZONE 1			12/01/2013	5 \$3	5.60	\$7.45	\$13.55	\$0.00	\$56.60	
IDOKEKS - ZONE I				06/01/2010	5 \$3	6.35	\$7.45	\$13.55	\$0.00	\$57.35
For apprentice ra	ates see "	Apprentice- LABORER"		12/01/2010	5 \$3	7.35	\$7.45	\$13.55	\$0.00	\$58.35
LAM SHELLS	/SLUR	RY BUCKETS/HEADI	NG MACHINES	12/01/201;	5 \$4	4.73	\$10.00	\$14.90	\$0.00	\$69.63
PERATING ENGIN	EERS LO	OCAL 4		06/01/2010	5 \$4	5.48	\$10.00	\$14.90	\$0.00	\$70.38
				12/01/2016		6.73	\$10.00	\$14.90	\$0.00	\$71.63
				06/01/2017		7.73	\$10.00	\$14.90	\$0.00	\$72.63
For apprentice ra	ates see "	Apprentice- OPERATING EN	GINEERS"	12/01/2017	7 \$4	8.73	\$10.00	\$14.90	\$0.00	\$73.63
OMPRESSOR			GIVEENS	12/01/201;	5 \$2	0.13	\$10.00	\$14.90	\$0.00	\$55.03
PERATING ENGIN								\$14.90	\$0.00	
				06/01/2010 12/01/2010		0.65 1.52	\$10.00 \$10.00	\$14.90 \$14.90	\$0.00	\$55.55 \$56.42
				06/01/2010		2.21	\$10.00	\$14.90	\$0.00	\$50.42 \$57.11
				12/01/201		2.21	\$10.00	\$14.90	\$0.00	\$57.11
For apprentice ra	ates see "	Apprentice- OPERATING EN	GINEERS"	12/01/201	, \$3	2.70	φ10.00	ψ1 1.70	ψ0.00	ψυ / .00
ELEADER (BF		*		01/01/2010	5 \$4	9.51	\$7.85	\$16.10	\$0.00	\$73.46
AINTERS LOCAL 3.	5 - ZONI	E 2		07/01/2010		0.46	\$7.85	\$16.10	\$0.00	\$74.4
				01/01/2017		1.41	\$7.85	\$16.10	\$0.00	\$75.36

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

Pension

	Effect	tive <b>Date</b> - 01/01/2016				Supplemental		
	Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	;
	1	50	\$24.76	\$7.85	\$0.00	\$0.00	\$32.61	
	2	55	\$27.23	\$7.85	\$3.66	\$0.00	\$38.74	ļ
	3	60	\$29.71	\$7.85	\$3.99	\$0.00	\$41.55	;
	4	65	\$32.18	\$7.85	\$4.32	\$0.00	\$44.35	i
	5	70	\$34.66	\$7.85	\$14.11	\$0.00	\$56.62	!
	6	75	\$37.13	\$7.85	\$14.44	\$0.00	\$59.42	!
	7	80	\$39.61	\$7.85	\$14.77	\$0.00	\$62.23	;
	8	90	\$44.56	\$7.85	\$15.44	\$0.00	\$67.85	;
	Effect	tive Date - 07/01/2016				Supplemental		
	Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	2
	1	50	\$25.23	\$7.85	\$0.00	\$0.00	\$33.08	3
	2	55	\$27.75	\$7.85	\$3.66	\$0.00	\$39.26	ó
	3	60	\$30.28	\$7.85	\$3.99	\$0.00	\$42.12	!
	4	65	\$32.80	\$7.85	\$4.32	\$0.00	\$44.97	,
	5	70	\$35.32	\$7.85	\$14.11	\$0.00	\$57.28	}
	6	75	\$37.85	\$7.85	\$14.44	\$0.00	\$60.14	ļ
	7	80	\$40.37	\$7.85	\$14.77	\$0.00	\$62.99	)
	8	90	\$45.41	\$7.85	\$15.44	\$0.00	\$68.70	)
	Notes	: Steps are 750 hrs.						
	Appro	entice to Journeyworker Ratio:1:1						
EMO: ADZE Borers - zon			12/01/2015	\$35.50	\$7.45	\$13.55	\$0.00	\$56.50
For apprentic	e rates see	"Apprentice- LABORER"						
EMO: BACk Borers - zon		OADER/HAMMER OPERATOR	12/01/2015	\$36.50	\$7.45	\$13.55	\$0.00	\$57.50
For apprentic	e rates see	"Apprentice- LABORER"						
EMO: BURN <i>borers - zo</i> n			12/01/2015	\$36.25	\$7.45	\$13.55	\$0.00	\$57.25
For apprentic	e rates see	"Apprentice- LABORER"						
EMO: CONO BORERS - ZON		CUTTER/SAWYER	12/01/2015	\$36.50	\$7.45	\$13.55	\$0.00	\$57.50
For apprentic	e rates see	"Apprentice- LABORER"						
EMO: JACK <i>borers - zon</i>		ER OPERATOR	12/01/2015	\$36.25	\$7.45	\$13.55	\$0.00	\$57.25
For apprentic	e rates see	"Apprentice- LABORER"						
EMO: WREG Borers - zon		LABORER	12/01/2015	\$35.50	\$7.45	\$13.55	\$0.00	\$56.50
		"Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
DIRECTIONAL DRILL MACHINE OPERATOR	12/01/2015	\$43.31	\$10.00	\$14.90	\$0.00	\$68.21
OPERATING ENGINEERS LOCAL 4	06/01/2016	\$44.06	\$10.00	\$14.90	\$0.00	\$68.96
	12/01/2016	\$45.29	\$10.00	\$14.90	\$0.00	\$70.19
	06/01/2017	\$46.28	\$10.00	\$14.90	\$0.00	\$71.18
	12/01/2017	\$47.27	\$10.00	\$14.90	\$0.00	\$72.17
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
DIVER PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2015	\$58.86	\$9.80	\$19.23	\$0.00	\$87.89
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2015	\$42.04	\$9.80	\$19.23	\$0.00	\$71.07
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER (EFFLUENT) PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2015	\$63.06	\$9.80	\$19.23	\$0.00	\$92.09
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER/SLURRY (EFFLUENT) PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2015	\$88.23	\$9.80	\$19.23	\$0.00	\$117.26
For apprentice rates see "Apprentice- PILE DRIVER"						
DRAWBRIDGE OPERATOR (Construction)  ELECTRICIANS LOCAL 103	03/01/2016	\$46.17	\$13.00	\$16.39	\$0.00	\$75.56
For apprentice rates see "Apprentice- ELECTRICIAN"						
ELECTRICIAN ELECTRICIANS LOCAL 103	03/01/2016	\$46.17	\$13.00	\$16.39	\$0.00	\$75.56

Ap	prentice - El	LECTRICIAN - Local 103					
Ef	fective Date -	03/01/2016				Supplemental	
Ste	ep percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate
1	40		\$18.47	\$13.00	\$0.55	\$0.00	\$32.02
2	40		\$18.47	\$13.00	\$0.55	\$0.00	\$32.02
3	45		\$20.78	\$13.00	\$12.34	\$0.00	\$46.12
4	45		\$20.78	\$13.00	\$12.34	\$0.00	\$46.12
5	50		\$23.09	\$13.00	\$12.71	\$0.00	\$48.80
6	55		\$25.39	\$13.00	\$13.07	\$0.00	\$51.46
7	60		\$27.70	\$13.00	\$13.44	\$0.00	\$54.14
8	65		\$30.01	\$13.00	\$13.81	\$0.00	\$56.82
9	70		\$32.32	\$13.00	\$14.18	\$0.00	\$59.50
10	75		\$34.63	\$13.00	\$14.55	\$0.00	\$62.18
No	otes: :						
	App Prior	r 1/1/03; 30/35/40/45/50/55/	(65/70/75/80				İ
Ap	prentice to Jo	urneyworker Ratio:2:3***					
ELEVATOR CONS			01/01/2010	5 \$54.53	\$14.43	\$14.96	\$0.00 \$83.92
ELEVATOR CONSTRUC	TORS LOCAL 4		01/01/2017	7 \$55.86	\$15.28	\$15.71	\$0.00 \$86.85

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		ntice - ELEVATOR CONSTR ive Date - 01/01/2016	UCTOR - Local 4			C1		
	Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
	1	50	\$27.27	\$14.43	\$0.00	\$0.00	\$41.70	
	2	55	\$29.99	\$14.43	\$14.96	\$0.00	\$59.38	
	3	65	\$35.44	\$14.43	\$14.96	\$0.00	\$64.83	
	4	70	\$38.17	\$14.43	\$14.96	\$0.00	\$67.56	
	5	80	\$43.62	\$14.43	\$14.96	\$0.00	\$73.01	
	Effecti	ve Date - 01/01/2017				C1		
	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					
	Appre	ntice to Journeyworker Ratio	:1:1					
	LEVATOR CONSTRUCTOR HELPER LEVATOR CONSTRUCTORS LOCAL 4		01/01/201	6 \$38.17	7 \$14.43	\$14.96	\$0.00	\$67.56
		S LOCAL 4  'Apprentice - ELEVATOR CONSTRU	01/01/201	7 \$39.10	\$15.28	\$15.71	\$0.00	\$70.09
FENCE & GUA			12/01/201	5 \$35.60	) \$7.45	\$13.55	\$0.00	\$56.60
ABORERS - ZONE	1		06/01/201			\$13.55	\$0.00	\$57.35
			12/01/201	,		\$13.55	\$0.00	\$58.35
		'Apprentice- LABORER"	,					
TIELD ENG.IN OPERATING ENGII		SON-BLDG,SITE,HVY/HWY OCAL 4	05/01/201	6 \$41.03	\$10.00		\$0.00	\$65.93
			11/01/201		2 \$10.00		\$0.00	\$66.52
			05/01/201	7 \$42.50	\$10.00		\$0.00	\$67.40
			11/01/201	7 \$43.23	3 \$10.00		\$0.00	\$68.13
For apprentice	rates see '	'Apprentice- OPERATING ENGINEEI	05/01/201 RS"	8 \$43.94	\$10.00	\$14.90	\$0.00	\$68.84
		HIEF-BLDG,SITE,HVY/HWY	05/01/201	6 \$42.47	7 \$10.00	\$14.90	\$0.00	\$67.37
OPERATING ENGI	NEERS L	OCAL 4	11/01/201	6 \$43.07	7 \$10.00	\$14.90	\$0.00	\$67.97
			05/01/201	7 \$43.96	\$10.00	\$14.90	\$0.00	\$68.86
			11/01/201	7 \$44.69	\$10.00	\$14.90	\$0.00	\$69.59
For appropriace	ratas saa !	'Apprentice- OPERATING ENGINEEI	05/01/201	8 \$45.41	\$10.00	\$14.90	\$0.00	\$70.31
		SON-BLDG,SITE,HVY/HWY		6 \$21.88	8 \$10.00	\$14.90	\$0.00	\$46.78
OPERATING ENGI			11/01/201				\$0.00	\$47.13
			05/01/201				\$0.00	\$47.66
			11/01/201				\$0.00	\$48.08
			05/01/201				\$0.00	\$48.51
		Apprentice- OPERATING ENGINEER	RS"					
		16	a Raguest Number: 201605					Page 0 of 3

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FIRE ALARM INSTALLER	03/01/2016	\$46.17	\$13.00	\$16.39	\$0.00	\$75.56
ELECTRICIANS LOCAL 103						
For apprentice rates see "Apprentice- ELECTRICIAN"						
FIRE ALARM REPAIR / MAINTENANCE	03/01/2016	\$34.63	\$13.00	\$14.55	\$0.00	\$62.18
/ COMMISSIONING ELECTRICIANS						
LOCAL 103  For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"						
FIREMAN (ASST. ENGINEER)  OPERATING ENGINEERS LOCAL 4	12/01/2015	\$36.34	\$10.00	\$14.90	\$0.00	\$61.24
OPERATING ENGINEERS LOCAL 4	06/01/2016	\$36.96	\$10.00	\$14.90	\$0.00	\$61.86
	12/01/2016	\$38.00	\$10.00	\$14.90	\$0.00	\$62.90
	06/01/2017	\$38.84	\$10.00	\$14.90	\$0.00	\$63.74
	12/01/2017	\$39.67	\$10.00	\$14.90	\$0.00	\$64.57
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FLAGGER & SIGNALER	12/01/2015	\$20.50	\$7.45	\$13.55	\$0.00	\$41.50
LABORERS - ZONE I	06/01/2016	\$20.50	\$7.45	\$13.55	\$0.00	\$41.50
	12/01/2016	\$20.50	\$7.45	\$13.55	\$0.00	\$41.50
For apprentice rates see "Apprentice- LABORER"						
FLOORCOVERER FLOORCOVERERS LOCAL 2168 ZONE I	03/01/2016	\$42.13	\$9.80	\$17.62	\$0.00	\$69.55

	Effect: Step	ive Date - 03/01/2016 percent	Apprentice	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	;
	1	50		\$21.07	\$9.80	\$1.79	\$0.00	\$32.66	
	2	55	S	\$23.17	\$9.80	\$1.79	\$0.00	\$34.76	
	3	60	S	\$25.28	\$9.80	\$12.25	\$0.00	\$47.33	
	4	65	S	\$27.38	\$9.80	\$12.25	\$0.00	\$49.43	
	5	70	S	\$29.49	\$9.80	\$14.04	\$0.00	\$53.33	
	6	75	S	831.60	\$9.80	\$14.04	\$0.00	\$55.44	
	7	80	S	\$33.70	\$9.80	\$15.83	\$0.00	\$59.33	
	8	85	S	\$35.81	\$9.80	\$15.83	\$0.00	\$61.44	
	Notes:								
		Steps are 750 hrs.							
	Appre	ntice to Journeyworker	Ratio:1:1						
FORK LIFT/CI	HERRY	PICKER		12/01/2015	\$43.73	\$10.00	\$14.90	\$0.00	\$68.63
OPERATING ENG	NEERS L	OCAL 4		06/01/2016	\$44.48	\$10.00	\$14.90	\$0.00	\$69.38
				12/01/2016	\$45.73	\$10.00	\$14.90	\$0.00	\$70.63
				06/01/2017	\$46.73	\$10.00	\$14.90	\$0.00	\$71.63
				12/01/2017	\$47.73	\$10.00	\$14.90	\$0.00	\$72.63
For apprentice	rates see	'Apprentice- OPERATING ENC	INEERS"						
GENERATORA OPERATING ENGLE		ING PLANT/HEATERS		12/01/2015	\$30.13	\$10.00	\$14.90	\$0.00	\$55.03
OF EKATING ENGI	NEEKS L	JCAL 4		06/01/2016	\$30.65	\$10.00	\$14.90	\$0.00	\$55.55
				12/01/2016	\$31.52	\$10.00	\$14.90	\$0.00	\$56.42
				06/01/2017	\$32.21	\$10.00	\$14.90	\$0.00	\$57.11
				12/01/2017	\$32.90	\$10.00	\$14.90	\$0.00	\$57.80
	mataa aaa l	'Apprentice- OPERATING ENG	INEEDS"						

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						nempioyment	
	NK/AIR BARRIER/INTERIOR	01/01/2016	\$39.01	\$7.85	\$16.10	\$0.00	\$62.96
YSTEMS) Laziers local 35 (zone 2	?)	07/01/2016	\$39.96	\$7.85	\$16.10	\$0.00	\$63.91
		01/01/2017	\$40.91	\$7.85	\$16.10	\$0.00	\$64.86
Effectiv	tice - GLAZIER - Local 35 Zone 2 e Date - 01/01/2016 percent	Apprentice Base Wage	<b>Haalth</b>	Pension	Supplemental Unemployment	Total Rate	
$\frac{\text{step}}{1}$	50						
2	55	\$19.51	\$7.85	\$0.00	\$0.00	\$27.36	
3		\$21.46	\$7.85	\$3.66	\$0.00	\$32.97	
4	60	\$23.41	\$7.85	\$3.99	\$0.00	\$35.25	
5	65	\$25.36	\$7.85	\$4.32	\$0.00	\$37.53	
6	70	\$27.31	\$7.85	\$14.11	\$0.00	\$49.27	
7	75	\$29.26	\$7.85	\$14.44	\$0.00	\$51.55	
8	80	\$31.21	\$7.85	\$14.77	\$0.00	\$53.83	
0	90	\$35.11	\$7.85	\$15.44	\$0.00	\$58.40	
Effectiv	e Date - 07/01/2016				Supplemental		
Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
1	50	\$19.98	\$7.85	\$0.00	\$0.00	\$27.83	
2	55	\$21.98	\$7.85	\$3.66	\$0.00	\$33.49	
3	60	\$23.98	\$7.85	\$3.99	\$0.00	\$35.82	
4	65	\$25.97	\$7.85	\$4.32	\$0.00	\$38.14	
5	70	\$27.97	\$7.85	\$14.11	\$0.00	\$49.93	
6	75	\$29.97	\$7.85	\$14.44	\$0.00	\$52.26	
7	80	\$31.97	\$7.85	\$14.77	\$0.00	\$54.59	
8	90	\$35.96	\$7.85	\$15.44	\$0.00	\$59.25	
Notes:							
	Steps are 750 hrs.						
Appren	tice to Journeyworker Ratio:1:1						
	/CRANES/GRADALLS	12/01/2015	\$43.73	\$10.00	\$14.90	\$0.00	\$68.63
PERATING ENGINEERS LO	∠AL <del>1</del>	06/01/2016	\$44.48	\$10.00	\$14.90	\$0.00	\$69.38
		12/01/2016	\$45.73	\$10.00	\$14.90	\$0.00	\$70.63
		06/01/2017	\$46.73	\$10.00	\$14.90	\$0.00	\$71.63
		12/01/2017	\$47.73	\$10.00	\$14.90	\$0.00	\$72.63

**Effective Date** 

Base Wage

Health

Classification

Supplemental

Unemployment

Pension

**Total Rate** 

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**Apprentice -** OPERATING ENGINEERS - Local 4

	Effecti	ve Date - 12/01/2015	NONVEERS - Locul 4				Supplemental		
	Step	percent	Apprentice	Base Wage	Health	Pension	Unemployment	Total Rate	;
	1	55	\$	24.05	\$10.00	\$0.00	\$0.00	\$34.05	I
	2	60	\$	26.24	\$10.00	\$14.90	\$0.00	\$51.14	•
	3	65	\$	28.42	\$10.00	\$14.90	\$0.00	\$53.32	,
	4	70	\$	30.61	\$10.00	\$14.90	\$0.00	\$55.51	
	5	75	\$	32.80	\$10.00	\$14.90	\$0.00	\$57.70	ı
	6	80	\$	34.98	\$10.00	\$14.90	\$0.00	\$59.88	i
	7	85	\$	37.17	\$10.00	\$14.90	\$0.00	\$62.07	I.
	8	90	\$	39.36	\$10.00	\$14.90	\$0.00	\$64.26	!
	Effecti	ve Date - 06/01/2016					Supplemental		
	Step	percent	Apprentice	Base Wage	Health	Pension	Unemployment	Total Rate	;
	1	55	\$	24.46	\$10.00	\$0.00	\$0.00	\$34.46	1
	2	60	\$	26.69	\$10.00	\$14.90	\$0.00	\$51.59	ı
	3	65	\$	28.91	\$10.00	\$14.90	\$0.00	\$53.81	
	4	70	\$	31.14	\$10.00	\$14.90	\$0.00	\$56.04	
	5	75	\$	33.36	\$10.00	\$14.90	\$0.00	\$58.26	1
	6	80	\$	35.58	\$10.00	\$14.90	\$0.00	\$60.48	1
	7	85	\$	37.81	\$10.00	\$14.90	\$0.00	\$62.71	
	8	90	\$	40.03	\$10.00	\$14.90	\$0.00	\$64.93	ı
	Notes:								
 HVAC (DUCTV		ntice to Journeyworker	Капо:1:0						
H V AC (DUCT V SHEETMETAL WOF		OCAL 17 - A		02/01/2016			\$21.95	\$2.28	\$78.24
				08/01/2016			\$21.95	\$2.28	\$79.39
				02/01/2017			\$21.95	\$2.28	\$80.49
				08/01/2017			\$21.95	\$2.28	\$81.59
For apprentice	rates see "	Apprentice- SHEET METAL V	WORKER"	02/01/2018	8 \$47.83	1 \$10.70	\$21.95	\$2.28	\$82.74
HVAC (ELECT ELECTRICIANS LO		CONTROLS)		03/01/2016	\$46.17	7 \$13.00	\$16.39	\$0.00	\$75.56
For apprentice	rates see "	Apprentice- ELECTRICIAN"							
•		D BALANCING - AIR)		02/01/2016	5 \$43.3	\$10.70	\$21.95	\$2.28	\$78.24
SHEETMETAL WOF	KKEKS LC	CAL 17 - A		08/01/2016	5 \$44.40	\$10.70	\$21.95	\$2.28	\$79.39
				02/01/2017	7 \$45.50	\$10.70	\$21.95	\$2.28	\$80.49
				08/01/2017	7 \$46.66	\$10.70	\$21.95	\$2.28	\$81.59
For apprentice	rates see "	Apprentice- SHEET METAL V	WORKER"	02/01/2018	8 \$47.83	\$10.70	\$21.95	\$2.28	\$82.74
		BALANCING -WATE		03/01/2016	5 \$49.19	9 \$9.70	\$18.14	\$0.00	\$77.03
PIPEFITTERS LOCA				09/01/2016			\$18.14	\$0.00	\$78.03
			WDI 11 (DDD 2005-200	03/01/2017			\$18.14	\$0.00	\$79.03
For apprentice	rates see "	Apprentice- PIPEFITTER" or '	"PLUMBER/PIPEFITTER"						
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HVAC MECHANIC		Effective Dat	te Base Wage	e Health	Pension	Supplemental Unemployment	Total Rat
		03/01/2016	\$49.19	\$9.70	\$18.14	\$0.00	\$77.03
PEFITTERS LOCAL 537		09/01/2016	\$50.19	\$9.70	\$18.14	\$0.00	\$78.03
		03/01/2017	\$51.19	\$9.70	\$18.14	\$0.00	\$79.03
	"Apprentice- PIPEFITTER" or "PLUMBER/P	'IPEFITTER"					
YDRAULIC DRILLS 4BORERS - ZONE 1	S	12/01/2015	\$36.10	\$7.45	\$13.55	\$0.00	\$57.10
Donald Borns 1		06/01/2016	\$36.85	\$7.45	\$13.55	\$0.00	\$57.85
For appropriate rates and	"Appropriate LADODED"	12/01/2016	\$37.85	\$7.45	\$13.55	\$0.00	\$58.85
ISULATOR (PIPES a	"Apprentice- LABORER"	00/01/0015	<b># 42</b> 01	<b>011.50</b>	¢12.00	ФО ОО	Φ.(0.11
EAT & FROST INSULATOR		09/01/2015		\$11.50	\$13.80	\$0.00	\$69.11
		09/01/2016		\$11.50	\$13.80	\$0.00	\$71.11
		09/01/2017		\$11.50	\$13.80	\$0.00	\$73.11
		09/01/2018 09/01/2019		\$11.50 \$11.50	\$13.80 \$13.80	\$0.00 \$0.00	\$75.36 \$77.86
		0)/01/2019	Ψ32.30	Ψ11.50	4-5101	Ψ0.00	Ψ77.00
Effect Step	ive Date - 09/01/2015	Apprentice Base Wage	11		Supplemental		
	percent	- 11		Pension	Unemployment		
1	50	\$21.91	\$11.50	\$10.05	\$0.00	\$43.46	
2	50 60	\$21.91 \$26.29	\$11.50 \$11.50	\$10.05 \$10.80	\$0.00 \$0.00	\$43.46 \$48.59	
2 3	50 60 70	\$21.91 \$26.29 \$30.67	\$11.50 \$11.50 \$11.50	\$10.05 \$10.80 \$11.55	\$0.00 \$0.00 \$0.00	\$43.46 \$48.59 \$53.72	
2	50 60	\$21.91 \$26.29 \$30.67	\$11.50 \$11.50	\$10.05 \$10.80	\$0.00 \$0.00	\$43.46 \$48.59 \$53.72	
2 3 4	50 60 70	\$21.91 \$26.29 \$30.67	\$11.50 \$11.50 \$11.50 \$11.50	\$10.05 \$10.80 \$11.55	\$0.00 \$0.00 \$0.00	\$43.46 \$48.59 \$53.72 \$58.85	
2 3 4	50 60 70 80 sive Date - 09/01/2016	\$21.91 \$26.29 \$30.67 \$35.05	\$11.50 \$11.50 \$11.50 \$11.50	\$10.05 \$10.80 \$11.55 \$12.30	\$0.00 \$0.00 \$0.00 \$0.00	\$43.46 \$48.59 \$53.72 \$58.85	
2 3 4 <b>Effect</b> Step	50 60 70 80 sive Date - 09/01/2016 percent	\$21.91 \$26.29 \$30.67 \$35.05 Apprentice Base Wage	\$11.50 \$11.50 \$11.50 \$11.50 Health	\$10.05 \$10.80 \$11.55 \$12.30	\$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment	\$43.46 \$48.59 \$53.72 \$58.85 Total Rate	
2 3 4 Effect Step 1	50 60 70 80 sive Date - 09/01/2016 percent	\$21.91 \$26.29 \$30.67 \$35.05 Apprentice Base Wage \$22.91 \$27.49	\$11.50 \$11.50 \$11.50 \$11.50 Health \$11.50	\$10.05 \$10.80 \$11.55 \$12.30 Pension \$10.05	\$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment	\$43.46 \$48.59 \$53.72 \$58.85 Total Rate \$44.46 \$49.79	
2 3 4 Effect Step 1 2	50 60 70 80 <b>Sive Date -</b> 09/01/2016 percent 50 60	\$21.91 \$26.29 \$30.67 \$35.05 Apprentice Base Wage \$22.91 \$27.49 \$32.07	\$11.50 \$11.50 \$11.50 \$11.50 Health \$11.50	\$10.05 \$10.80 \$11.55 \$12.30 Pension \$10.05 \$10.80	\$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment \$0.00 \$0.00	\$43.46 \$48.59 \$53.72 \$58.85 Total Rate \$44.46 \$49.79 \$55.12	
2 3 4 Effect Step 1 2 3	50 60 70 80 Sive Date - 09/01/2016 percent 50 60 70 80	\$21.91 \$26.29 \$30.67 \$35.05 Apprentice Base Wage \$22.91 \$27.49 \$32.07	\$11.50 \$11.50 \$11.50 \$11.50 Health \$11.50 \$11.50	\$10.05 \$10.80 \$11.55 \$12.30 Pension \$10.05 \$10.80 \$11.55	\$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment \$0.00 \$0.00	\$43.46 \$48.59 \$53.72 \$58.85 Total Rate \$44.46 \$49.79 \$55.12	
2 3 4  Effect Step 1 2 3 4  Notes:	50 60 70 80 sive Date - 09/01/2016 percent 50 60 70 80	\$21.91 \$26.29 \$30.67 \$35.05 Apprentice Base Wage \$22.91 \$27.49 \$32.07	\$11.50 \$11.50 \$11.50 \$11.50 Health \$11.50 \$11.50	\$10.05 \$10.80 \$11.55 \$12.30 Pension \$10.05 \$10.80 \$11.55	\$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment \$0.00 \$0.00	\$43.46 \$48.59 \$53.72 \$58.85 Total Rate \$44.46 \$49.79 \$55.12	

\$0.00

\$0.00

\$72.70

\$73.30

\$20.85

\$20.85

\$7.80

\$7.80

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09/16/2016

03/16/2017

\$44.05

\$44.65

IRONWORKERS LOCAL 7 (BOSTON AREA)

		ntice - IRONWORKER - Local 7 Bo ive Date - 03/16/2016	sion					
	Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	;
	1	60	\$26.04	\$7.80	\$20.85	\$0.00	\$54.69	)
	2	70	\$30.38	\$7.80	\$20.85	\$0.00	\$59.03	
	3	75	\$32.55	\$7.80	\$20.85	\$0.00	\$61.20	)
	4	80	\$34.72	\$7.80	\$20.85	\$0.00	\$63.37	
	5	85	\$36.89	\$7.80	\$20.85	\$0.00	\$65.54	
	6	90	\$39.06	\$7.80	\$20.85	\$0.00	\$67.71	
	Effecti	ve Date - 09/16/2016				Supplemental		
	Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	;
	1	60	\$26.43	\$7.80	\$20.85	\$0.00	\$55.08	
	2	70	\$30.84	\$7.80	\$20.85	\$0.00	\$59.49	)
	3	75	\$33.04	\$7.80	\$20.85	\$0.00	\$61.69	)
	4	80	\$35.24	\$7.80	\$20.85	\$0.00	\$63.89	)
	5	85	\$37.44	\$7.80	\$20.85	\$0.00	\$66.09	)
	6	90	\$39.65	\$7.80	\$20.85	\$0.00	\$68.30	)
	Notes:	** Structural 1:6; Ornamental 1:4						
	Appre	ntice to Journeyworker Ratio:**					'	
		VING BREAKER OPERATOR	12/01/2015	\$35.60	\$7.45	\$13.55	\$0.00	\$56.60
ORERS - ZON	E I		06/01/2016	\$36.35	\$7.45	\$13.55	\$0.00	\$57.35
For apprentic	e rates see '	'Apprentice- LABORER"	12/01/2016	\$37.35	\$7.45	\$13.55	\$0.00	\$58.35
BORER			12/01/2015	5 \$35.35	\$7.45	\$13.55	\$0.00	\$56.35
ORERS - ZON	IE I		06/01/2016			\$13.55	\$0.00	\$57.10
			12/01/2016			\$13.55	\$0.00	\$58.10

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		ive Date -	12/01/2015	Ammontine Dec. W.	Haaltl	Domeir	Supplemental	T-4-1 D . (	
	Step	percent		Apprentice Base Wage		Pension	Unemployment	Total Rate	
	1	60		\$21.21	\$7.45	\$13.55	\$0.00	\$42.21	
	2	70		\$24.75	\$7.45	\$13.55	\$0.00	\$45.75	
	3	80		\$28.28	\$7.45	\$13.55	\$0.00	\$49.28	
	4	90		\$31.82	\$7.45	\$13.55	\$0.00	\$52.82	
	Effect Step	ive Date - percent	06/01/2016	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
	1	60		\$21.66	\$7.45	\$13.55	\$0.00	\$42.66	
	2	70		\$25.27	\$7.45	\$13.55	\$0.00	\$46.27	
	3	80		\$28.88	\$7.45	\$13.55	\$0.00	\$49.88	
	4	90		\$32.49	\$7.45	\$13.55	\$0.00	\$53.49	
	Notes:								
	Appre	entice to Jou	rneyworker Ratio:1:5					'	
ABORER: C		ΓER TENDE	ER	12/01/2015	\$35.35	\$7.45	\$13.55	\$0.00	\$56.35
BORERS - ZON	EI			06/01/2016	\$36.10	\$7.45	\$13.55	\$0.00	\$57.10
For apprentic	e rates see	"Apprentice- LA	ABORER"	12/01/2016	\$37.10	\$7.45	\$13.55	\$0.00	\$58.10
ABORER: C	EMENT			12/01/2015	\$35.35	\$7.45	\$13.55	\$0.00	\$56.35
BORERS - ZON	E 1			06/01/2016	\$36.10	\$7.45	\$13.55	\$0.00	\$57.10
			A DODER!	12/01/2016	\$37.10	\$7.45	\$13.55	\$0.00	\$58.10
	AZARD	"Apprentice- LA OUS WAST	E/ASBESTOS REMOVER	R 12/01/2015	\$35.50	\$7.45	\$13.55	\$0.00	\$56.50
For apprentice	e rates see	"Apprentice- LA	ABORER"						
ABORER: M		TENDER		12/01/2015	\$35.60	\$7.45	\$13.55	\$0.00	\$56.60
BORERS - ZON	L I			06/01/2016	\$36.35	\$7.45	\$13.55	\$0.00	\$57.35
For apprentice	e rates see	"Apprentice- LA	ABORER"	12/01/2016	\$37.35	\$7.45	\$13.55	\$0.00	\$58.35
BORER: M	ULTI-T	RADE TEN		12/01/2015	\$35.35	\$7.45	\$13.55	\$0.00	\$56.35
BORERS - ZON	E 1			06/01/2016			\$13.55	\$0.00	\$57.10
For appropri:	o rotos se -	"Annrantica T	A DODED"	12/01/2016	\$37.10	\$7.45	\$13.55	\$0.00	\$58.10
BORER: TI		"Apprentice- LA MOVER	ADORER	12/01/2015	\$35.35	\$7.45	\$13.55	\$0.00	\$56.35
BORERS - ZON	E 1			06/01/2016			\$13.55	\$0.00	\$57.10
				12/01/2016			\$13.55	\$0.00	\$58.10
			rk associated with the removal of stration, maintenance or repair of ut	standing trees, and trimming and	removal of branc	hes and limbs v	when the work is no		ψυ0.10
SER BEAN	1 OPERA			12/01/2015	-		\$13.55	\$0.00	\$56.60
BORERS - ZON	E 1			06/01/2016	\$36.35	\$7.45	\$13.55	\$0.00	\$57.35

MARBLE & TI			02/01/2016	5 \$38.08	\$10.18	\$17.70	\$0.00	\$65.96
BRICKLAYERS LO	CAL 3 - M	MARBLE & TILE	08/01/2010	5 \$38.78	\$10.18	\$17.78	\$0.00	\$66.74
			02/01/2017	7 \$39.24	\$10.18	\$17.78	\$0.00	\$67.20
		entice - MARBLE & TILE FINISHER ive Date - 02/01/2016 percent	- Local 3 Marble & Tile  Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
	1	50	\$19.04	\$10.18	\$17.70	\$0.00	\$46.92	
	2	60	\$22.85	\$10.18	\$17.70	\$0.00	\$50.73	
	3	70	\$26.66	\$10.18	\$17.70	\$0.00	\$54.54	
	4	80	\$30.46	\$10.18	\$17.70	\$0.00	\$58.34	
	5	90	\$34.27	\$10.18	\$17.70	\$0.00	\$62.15	
	Effect	ive Date - 08/01/2016				Supplemental		
	Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
	1	50	\$19.39	\$10.18	\$17.78	\$0.00	\$47.35	
	2	60	\$23.27	\$10.18	\$17.78	\$0.00	\$51.23	
	3	70	\$27.15	\$10.18	\$17.78	\$0.00	\$55.11	
	4	80	\$31.02	\$10.18	\$17.78	\$0.00	\$58.98	
	5	90	\$34.90	\$10.18	\$17.78	\$0.00	\$62.86	
	Notes:	- — — — — — — — —						
		entice to Journeyworker Ratio:1:3						
MARBLE MAS Bricklayers lo		TILELAYERS & TERRAZZO MECH	02/01/2010	\$49.90	\$10.18	\$19.14	\$0.00	\$79.22
DITCKEATERS LO	CIL 5 - W	ander & Her	08/01/2010	\$50.80	\$10.18	\$19.22	\$0.00	\$80.20

02/01/2017

\$51.37

**Effective Date** 

Base Wage

Health

Classification

Supplemental

Unemployment

Pension

\$19.22

\$10.18

\$0.00

\$80.77

**Total Rate** 

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		ve Date -	02/01/2016		TT 1/1	ъ.	Supplemental	T . 1 P .	
	Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
	1	50		\$24.95	\$10.18	\$19.14	\$0.00	\$54.27	
	2	60		\$29.94	\$10.18	\$19.14	\$0.00	\$59.26	
	3	70		\$34.93	\$10.18	\$19.14	\$0.00	\$64.25	
	4	80		\$39.92	\$10.18	\$19.14	\$0.00	\$69.24	
	5	90		\$44.91	\$10.18	\$19.14	\$0.00	\$74.23	
	Effecti	ve Date -	08/01/2016				Supplemental		
	Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
	1	50		\$25.40	\$10.18	\$19.22	\$0.00	\$54.80	
	2	60		\$30.48	\$10.18	\$19.22	\$0.00	\$59.88	
	3	70		\$35.56	\$10.18	\$19.22	\$0.00	\$64.96	
	4	80		\$40.64	\$10.18	\$19.22	\$0.00	\$70.04	
	5	90		\$45.72	\$10.18	\$19.22	\$0.00	\$75.12	
	Notes:								
	Appre	ntice to Jo	urneyworker Ratio:1:5						
			(ON CONST. SITES)	12/01/201:	5 \$43.31	\$10.00	\$14.90	\$0.00	\$68.21
OPERATING EN	jINEERS LO	CAL 4		06/01/2010	6 \$44.06	\$10.00	\$14.90	\$0.00	\$68.96
				12/01/2010	6 \$45.29	\$10.00	\$14.90	\$0.00	\$70.19
				06/01/2017	7 \$46.28	\$10.00	\$14.90	\$0.00	\$71.18
For apprentic	ce rates see '	Apprentice- (	OPERATING ENGINEERS"	12/01/2017	7 \$47.27	\$10.00	\$14.90	\$0.00	\$72.17
MECHANICS	MAINT	ENANCE		12/01/201:	5 \$43.31	\$10.00	\$14.90	\$0.00	\$68.21
OPERATING EN	GINEERS L	OCAL 4		06/01/2010			\$14.90	\$0.00	\$68.96
				12/01/2010			\$14.90	\$0.00	\$70.19
				06/01/2017	7 \$46.28	\$10.00	\$14.90	\$0.00	\$71.18
				12/01/201			\$14.90	\$0.00	\$72.17
Ear annuanti	ce rates see '	Apprentice- (	OPERATING ENGINEERS"						
MILLWRIGH							\$16.21	\$0.00	

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Pension

	Step	ve Date - 04/01/2015 percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Ra	te
	1	55	\$20.70	\$9.80	\$4.48	\$0.00	\$34.9	98
	2	65	\$24.47	\$9.80	\$13.36	\$0.00	\$47.6	53
	3	75	\$28.23	\$9.80	\$14.18	\$0.00	\$52.2	21
	4	85	\$31.99	\$9.80	\$14.99	\$0.00	\$56.7	78
	Notes:							, 
		Steps are 2,000 hours						
	Appre	ntice to Journeyworker Ratio:1:5						
MORTAR MIX			12/01/2015	\$35.60	\$7.45	\$13.55	\$0.00	\$56.60
ADUKEKS - ZUNI	E I		06/01/2016	\$36.35	\$7.45	\$13.55	\$0.00	\$57.35
For apprentice	e rates see '	'Apprentice- LABORER"	12/01/2016	\$37.35	\$7.45	\$13.55	\$0.00	\$58.35
	LER (OTHER THAN TRUCK CRANES,GRADALLS)  ERATING ENGINEERS LOCAL 4		12/01/2015	\$22.27	\$10.00	\$14.90	\$0.00	\$47.17
PERATING ENG.	INEERS LO	OCAL 4	06/01/2016	\$22.66	\$10.00	\$14.90	\$0.00	\$47.56
			12/01/2016	\$23.31	\$10.00	\$14.90	\$0.00	\$48.21
			06/01/2017	\$23.82	\$10.00	\$14.90	\$0.00	\$48.72
For apprentice	e rates see '	'Apprentice- OPERATING ENGINEERS"	12/01/2017	\$24.34	\$10.00	\$14.90	\$0.00	\$49.24
		NES, GRADALLS)	12/01/2015	\$26.08	\$10.00	\$14.90	\$0.00	\$50.98
PERATING ENG.	INEERS LO	OCAL 4	06/01/2016	\$26.54	\$10.00	\$14.90	\$0.00	\$51.44
			12/01/2016	\$27.29	\$10.00	\$14.90	\$0.00	\$52.19
			06/01/2017	\$27.89	\$10.00	\$14.90	\$0.00	\$52.79
For apprentice	e rates see '	Apprentice- OPERATING ENGINEERS"	12/01/2017	\$28.50	\$10.00	\$14.90	\$0.00	\$53.40
		'EN EQUIPMENT - CLASS II	12/01/2015	\$43.31	\$10.00	\$14.90	\$0.00	\$68.21
PERATING ENG	INEERS LO	OCAL 4	06/01/2016	\$44.06	\$10.00	\$14.90	\$0.00	\$68.96
			12/01/2016	\$45.29	\$10.00	\$14.90	\$0.00	\$70.19
			06/01/2017	\$46.28	\$10.00	\$14.90	\$0.00	\$71.18
			12/01/2017	\$47.27	\$10.00	\$14.90	\$0.00	\$72.17
		Apprentice- OPERATING ENGINEERS"						
AINTER (BR AINTERS LOCAL			01/01/2016	\$49.51	\$7.85	\$16.10	\$0.00	\$73.46
ILIO LOCAL	LOW	- <del>-</del>	07/01/2016	\$50.46	\$7.85	\$16.10	\$0.00	\$74.41
			01/01/2017	\$51.41	\$7.85	\$16.10	\$0.00	\$75.36

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

Pension

Unemployment

	Effect	ive Date -	01/01/2016				Supplemental		
	Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	;
	1	50		\$24.76	\$7.85	\$0.00	\$0.00	\$32.61	
	2	55		\$27.23	\$7.85	\$3.66	\$0.00	\$38.74	
	3	60		\$29.71	\$7.85	\$3.99	\$0.00	\$41.55	
	4	65		\$32.18	\$7.85	\$4.32	\$0.00	\$44.35	
	5	70		\$34.66	\$7.85	\$14.11	\$0.00	\$56.62	
	6	75		\$37.13	\$7.85	\$14.44	\$0.00	\$59.42	
	7	80		\$39.61	\$7.85	\$14.77	\$0.00	\$62.23	
	8	90		\$44.56	\$7.85	\$15.44	\$0.00	\$67.85	
	Effect Step	ive Date -	07/01/2016	Apprentice Base Wage	Haalth	Pension	Supplemental Unemployment	Total Rate	
	1 step	50							
	2			\$25.23	\$7.85	\$0.00	\$0.00	\$33.08	
	3	55		\$27.75	\$7.85	\$3.66	\$0.00	\$39.26	
	4	60		\$30.28	\$7.85	\$3.99	\$0.00	\$42.12	
		65		\$32.80	\$7.85	\$4.32	\$0.00	\$44.97	
	5	70		\$35.32	\$7.85	\$14.11	\$0.00	\$57.28	
	6	75		\$37.85	\$7.85	\$14.44	\$0.00	\$60.14	
	7	80		\$40.37	\$7.85	\$14.77	\$0.00	\$62.99	
	8	90		\$45.41	\$7.85	\$15.44	\$0.00	\$68.70	1
	Notes:								
		Steps are	/50 hrs.					į	
	Appre	ntice to Jou	rneyworker Ratio:1:1						
,			AST, NEW) *	01/01/2016	\$40.41	\$7.85	\$16.10	\$0.00	\$64.36
			painted are new construction ERS LOCAL 35 - ZONE 2	n, 07/01/2016	\$41.36	\$7.85	\$16.10	\$0.00	\$65.31
⊃ 11 paint rat	Silaii 00	ascu.r AINI	ERO LOCAL 33 - ZUNE 2	01/01/2017	\$42.31	\$7.85	\$16.10	\$0.00	\$66.26

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**Total Rate** Unemployment

Apprentice -	PAINTER Local 35 Zone 2 - Spray/Sar	ıdblast - New
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E	Effecti	ve Date -	01/01/2016				Supplemental		
S	tep	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
1	1	50		\$20.21	\$7.85	\$0.00	\$0.00	\$28.06	
2	2	55		\$22.23	\$7.85	\$3.66	\$0.00	\$33.74	
3	3	60		\$24.25	\$7.85	\$3.99	\$0.00	\$36.09	
4	4	65		\$26.27	\$7.85	\$4.32	\$0.00	\$38.44	
	5	70		\$28.29	\$7.85	\$14.11	\$0.00	\$50.25	
(	5	75		\$30.31	\$7.85	\$14.44	\$0.00	\$52.60	
	7	80		\$32.33	\$7.85	\$14.77	\$0.00	\$54.95	
8	3	90		\$36.37	\$7.85	\$15.44	\$0.00	\$59.66	
	E <b>ffecti</b> Step	ve Date -	07/01/2016	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
1	1	50		\$20.68	\$7.85	\$0.00	\$0.00	\$28.53	
2	2	55		\$22.75	\$7.85	\$3.66	\$0.00	\$34.26	
3	3	60		\$24.82	\$7.85	\$3.99	\$0.00	\$36.66	
4	4	65		\$26.88	\$7.85	\$4.32	\$0.00	\$39.05	
4	5	70		\$28.95	\$7.85	\$14.11	\$0.00	\$50.91	
(	5	75		\$31.02	\$7.85	\$14.44	\$0.00	\$53.31	
-	7	80		\$33.09	\$7.85	\$14.77	\$0.00	\$55.71	
8	8	90		\$37.22	\$7.85	\$15.44	\$0.00	\$60.51	
N	Notes:								
į		Steps are	750 hrs.					i	
A	ppre	ntice to Joi	urneyworker Ratio:1:1						
			AST, REPAINT)	01/01/2016	5 \$38.47	\$7.85	\$16.10	\$0.00	\$62.42
INTERS LOCAL 35	- ZONE	12		07/01/2016	\$39.42	\$7.85	\$16.10	\$0.00	\$63.37
				01/01/2017	\$40.37	\$7.85	\$16.10	\$0.00	\$64.32

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Apprentice - PAINTER Local 35 Zone 2 - Spray/Sandblast - Repaint

Pension

	Effecti	ve Date -	01/01/2016				Supplemental		
	Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
	1	50		\$19.24	\$7.85	\$0.00	\$0.00	\$27.09	
	2	55		\$21.16	\$7.85	\$3.66	\$0.00	\$32.67	
	3	60		\$23.08	\$7.85	\$3.99	\$0.00	\$34.92	
	4	65		\$25.01	\$7.85	\$4.32	\$0.00	\$37.18	
	5	70		\$26.93	\$7.85	\$14.11	\$0.00	\$48.89	
	6	75		\$28.85	\$7.85	\$14.44	\$0.00	\$51.14	
	7	80		\$30.78	\$7.85	\$14.77	\$0.00	\$53.40	
	8	90		\$34.62	\$7.85	\$15.44	\$0.00	\$57.91	
	Effecti	ve Date -	07/01/2016				Supplemental		
	Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
	1	50		\$19.71	\$7.85	\$0.00	\$0.00	\$27.56	
	2	55		\$21.68	\$7.85	\$3.66	\$0.00	\$33.19	
	3	60		\$23.65	\$7.85	\$3.99	\$0.00	\$35.49	
	4	65		\$25.62	\$7.85	\$4.32	\$0.00	\$37.79	
	5	70		\$27.59	\$7.85	\$14.11	\$0.00	\$49.55	
	6	75		\$29.57	\$7.85	\$14.44	\$0.00	\$51.86	
	7	80		\$31.54	\$7.85	\$14.77	\$0.00	\$54.16	
	8	90		\$35.48	\$7.85	\$15.44	\$0.00	\$58.77	
	Notes:	Steps are	750 hrs.						
	Appre	ntice to Jo	urneyworker Ratio:1:1						
PAINTER (TRA		MARKING	S)	12/01/2015	\$35.35	\$7.45	\$13.55	\$0.00	\$56.35
LABORERS - ZONE	. 1			06/01/2016	\$36.10	\$7.45	\$13.55	\$0.00	\$57.10
For Apprentice	rates see	"Apprentice- l	LABORER"	12/01/2016	\$37.10	\$7.45	\$13.55	\$0.00	\$58.10
PAINTER / TA				01/01/2016	5 \$39.01	\$7.85	\$16.10	\$0.00	\$62.96
* If 30% or mor	e of sur	faces to be	painted are new construction	07/01/2016			\$16.10	\$0.00	\$63.91
NEW paint rate	shall be	used.PAINT	TERS LOCAL 35 - ZONE 2	01/01/2017			\$16.10	\$0.00	\$64.86

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Pension

Apprentice -	PAINTER - Local 35 Zone 2 - BRUS	HNEW
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Effecti	ve Date -	01/01/2016				Supplemental		
Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
1	50		\$19.51	\$7.85	\$0.00	\$0.00	\$27.36	
2	55		\$21.46	\$7.85	\$3.66	\$0.00	\$32.97	
3	60		\$23.41	\$7.85	\$3.99	\$0.00	\$35.25	
4	65		\$25.36	\$7.85	\$4.32	\$0.00	\$37.53	
5	70		\$27.31	\$7.85	\$14.11	\$0.00	\$49.27	
6	75		\$29.26	\$7.85	\$14.44	\$0.00	\$51.55	
7	80		\$31.21	\$7.85	\$14.77	\$0.00	\$53.83	
8	90		\$35.11	\$7.85	\$15.44	\$0.00	\$58.40	
Effecti Step	ve Date -	07/01/2016	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
1	50		\$19.98	\$7.85	\$0.00	\$0.00	\$27.83	
2	55		\$21.98	\$7.85	\$3.66	\$0.00	\$33.49	
3	60		\$23.98	\$7.85	\$3.99	\$0.00	\$35.82	
4	65		\$25.97	\$7.85	\$4.32	\$0.00	\$38.14	
5	70		\$27.97	\$7.85	\$14.11	\$0.00	\$49.93	
6	75		\$29.97	\$7.85	\$14.44	\$0.00	\$52.26	
7	80		\$31.97	\$7.85	\$14.77	\$0.00	\$54.59	
8	90		\$35.96	\$7.85	\$15.44	\$0.00	\$59.25	
Notes:	Steps are	750 hrs.						
Annrei	ntice to Jo	urneyworker Ratio:1:1						
INTER / TAPER (BI	RUSH, RE		01/01/2016	5 \$37.07	\$7.85	\$16.10	\$0.00	\$61.02
NTERS LOCAL 35 - ZONE	E 2		07/01/2016			\$16.10	\$0.00	\$61.97
			01/01/2017			\$16.10	\$0.00	\$62.92

 Issue Date:
 05/18/2016
 Wage Request Number:
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**Apprentice -** PAINTER Local 35 Zone 2 - BRUSH REPAINT

I	Effectiv	e Date - 01/01/2016				Supplemental		
S	Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
	1	50	\$18.54	\$7.85	\$0.00	\$0.00	\$26.39	
:	2	55	\$20.39	\$7.85	\$3.66	\$0.00	\$31.90	
:	3	60	\$22.24	\$7.85	\$3.99	\$0.00	\$34.08	
	4	65	\$24.10	\$7.85	\$4.32	\$0.00	\$36.27	
:	5	70	\$25.95	\$7.85	\$14.11	\$0.00	\$47.91	
	6	75	\$27.80	\$7.85	\$14.44	\$0.00	\$50.09	
	7	80	\$29.66	\$7.85	\$14.77	\$0.00	\$52.28	
:	8	90	\$33.36	\$7.85	\$15.44	\$0.00	\$56.65	
I	Effectiv	re Date - 07/01/2016				Supplemental		
5	Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
	1	50	\$19.01	\$7.85	\$0.00	\$0.00	\$26.86	
:	2	55	\$20.91	\$7.85	\$3.66	\$0.00	\$32.42	
:	3	60	\$22.81	\$7.85	\$3.99	\$0.00	\$34.65	
	4	65	\$24.71	\$7.85	\$4.32	\$0.00	\$36.88	
:	5	70	\$26.61	\$7.85	\$14.11	\$0.00	\$48.57	
	6	75	\$28.52	\$7.85	\$14.44	\$0.00	\$50.81	
	7	80	\$30.42	\$7.85	\$14.77	\$0.00	\$53.04	
:	8	90	\$34.22	\$7.85	\$15.44	\$0.00	\$57.51	
1	Notes:							
j		Steps are 750 hrs.						
A	Appren	tice to Journeyworker Ratio:1:1						
PANEL & PICKU			12/01/2015	\$32.58	\$10.41	\$10.08	\$0.00	\$53.07
TEAMSTERS JOINT C	OUNCII	. NO. 10 ZONE A	06/01/2016	\$33.08	\$10.41	\$10.08	\$0.00	\$53.57
			08/01/2016	\$33.08	\$10.91	\$10.08	\$0.00	\$54.07
			12/01/2016	\$33.08	\$10.91	\$10.89	\$0.00	\$54.88
DECK) Pile driver local	. 56 (ZOI	STRUCTOR (UNDERPINNING A  (E 1)  Apprentice- PILE DRIVER"	ND 08/01/2015	\$42.04	\$9.80	\$19.23	\$0.00	\$71.07
PILE DRIVER PILE DRIVER LOCAL	. 56 (ZOI	VE 1)	08/01/2015	\$42.04	\$9.80	\$19.23	\$0.00	\$71.07

	Effective Step	ve Date - 08/01/2015 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:							
ı	Apprei	ntice to Journeyworker	Ratio:1:3					
EFITTER &		<b>IFITTER</b>	03/01/201	6 \$49.19	\$9.70	\$18.14	\$0.00	\$77.03
EFITTERS LOCA	4L 537		09/01/201	6 \$50.19	\$9.70	\$18.14	\$0.00	\$78.03
			03/01/201	7 \$51.19	\$9.70	\$18.14	\$0.00	\$79.03
		ntice - PIPEFITTER - 1	Local 537					
	Effective Step	ve Date - 03/01/2016 percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
	Step 1	ve Date - 03/01/2016 percent 40	Apprentice Base Wage \$19.68	Health \$9.70	Pension \$7.50	Unemployment \$0.00	\$36.88	
	Step  1 2	ve Date - 03/01/2016 percent 40 45	Apprentice Base Wage \$19.68 \$22.14	Health \$9.70 \$9.70	Pension \$7.50 \$18.14	Unemployment	\$36.88 \$49.98	
	Step  1 2 3	percent 03/01/2016 40 45 60	Apprentice Base Wage \$19.68 \$22.14 \$29.51	Health \$9.70 \$9.70 \$9.70	Pension \$7.50 \$18.14 \$18.14	\$0.00 \$0.00 \$0.00 \$0.00	\$36.88 \$49.98 \$57.35	
	Step  1 2 3 4	ve Date - 03/01/2016 percent 40 45 60 70	\$19.68 \$22.14 \$29.51 \$34.43	Health \$9.70 \$9.70	Pension \$7.50 \$18.14 \$18.14 \$18.14	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$36.88 \$49.98 \$57.35 \$62.27	
	Step  1 2 3	percent 03/01/2016 40 45 60	Apprentice Base Wage \$19.68 \$22.14 \$29.51	Health \$9.70 \$9.70 \$9.70	Pension \$7.50 \$18.14 \$18.14	\$0.00 \$0.00 \$0.00 \$0.00	\$36.88 \$49.98 \$57.35	
	Step  1 2 3 4 5	ve Date - 03/01/2016 percent 40 45 60 70	\$19.68 \$22.14 \$29.51 \$34.43	Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70	Pension \$7.50 \$18.14 \$18.14 \$18.14	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$36.88 \$49.98 \$57.35 \$62.27	
	Step  1 2 3 4 5	ve Date - 03/01/2016 percent  40 45 60 70 80  ve Date - 09/01/2016	\$19.68 \$22.14 \$29.51 \$34.43 \$39.35	Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70	Pension \$7.50 \$18.14 \$18.14 \$18.14 \$18.14	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$36.88 \$49.98 \$57.35 \$62.27 \$67.19	
	Effective Step  1 2 3 4 5 Effective Step	ve Date - 03/01/2016 percent  40 45 60 70 80 ve Date - 09/01/2016 percent	\$19.68 \$22.14 \$29.51 \$34.43 \$39.35 Apprentice Base Wage	Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70 Health	Pension \$7.50 \$18.14 \$18.14 \$18.14 \$18.14 Pension	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$36.88 \$49.98 \$57.35 \$62.27 \$67.19	
	Effective Step 1 2 3 4 5 5 Effective Step 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ye Date - 03/01/2016 percent  40 45 60 70 80  ye Date - 09/01/2016 percent  40	\$19.68 \$22.14 \$29.51 \$34.43 \$39.35 Apprentice Base Wage	Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70  Health \$9.70	Pension \$7.50 \$18.14 \$18.14 \$18.14 \$18.14 Pension \$7.50	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment	\$36.88 \$49.98 \$57.35 \$62.27 \$67.19 Total Rate \$37.28	
	Effective Step 1 2 3 4 5 5 Effective Step 1 2 2 3 4 5 5 Effective Step 1 2 2	ve Date - 03/01/2016 percent  40 45 60 70 80 ve Date - 09/01/2016 percent  40 45	\$19.68 \$22.14 \$29.51 \$34.43 \$39.35 Apprentice Base Wage \$20.08 \$22.59	Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70  Health \$9.70 \$9.70	Pension \$7.50 \$18.14 \$18.14 \$18.14 \$18.14  Pension \$7.50 \$18.14	Unemployment \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment \$0.00 \$0.00	\$36.88 \$49.98 \$57.35 \$62.27 \$67.19 Total Rate \$37.28 \$50.43	
	Effective Step  1 2 3 4 5  Effective Step 1 2 3 3 4 5  Effective Step 1 2 3	ve Date - 03/01/2016 percent  40 45 60 70 80  ve Date - 09/01/2016 percent  40 45 60	Apprentice Base Wage \$19.68 \$22.14 \$29.51 \$34.43 \$39.35  Apprentice Base Wage \$20.08 \$22.59 \$30.11	Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70  Health \$9.70 \$9.70 \$9.70 \$9.70	Pension \$7.50 \$18.14 \$18.14 \$18.14 \$18.14  Pension \$7.50 \$18.14 \$18.14	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment \$0.00 \$0.00	\$36.88 \$49.98 \$57.35 \$62.27 \$67.19 Total Rate \$37.28 \$50.43 \$57.95	
	Effective Step	ve Date - 03/01/2016 percent  40 45 60 70 80 ve Date - 09/01/2016 percent  40 45 60 70 80	Apprentice Base Wage \$19.68 \$22.14 \$29.51 \$34.43 \$39.35  Apprentice Base Wage \$20.08 \$22.59 \$30.11 \$35.13 \$40.15  after / Steps are 1 yr. *1:1;1:2;2:4;3:6;4:8;5:10;6:12;7:14;8:1	Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70  Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70 \$9.70	Pension \$7.50 \$18.14 \$18.14 \$18.14 \$18.14  Pension \$7.50 \$18.14 \$18.14 \$18.14 \$18.14	Unemployment \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment \$0.00 \$0.00 \$0.00 \$0.00	\$36.88 \$49.98 \$57.35 \$62.27 \$67.19 Total Rate \$37.28 \$50.43 \$57.95 \$62.97	
	Effective Step	ve Date - 03/01/2016 percent  40 45 60 70 80 ve Date - 09/01/2016 percent  40 45 60 70 80	Apprentice Base Wage \$19.68 \$22.14 \$29.51 \$34.43 \$39.35  Apprentice Base Wage \$20.08 \$22.59 \$30.11 \$35.13 \$40.15  after / Steps are 1 yr. *1:1;1:2;2:4;3:6;4:8;5:10;6:12;7:14;8:1	Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70  Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70 \$9.70	Pension \$7.50 \$18.14 \$18.14 \$18.14 \$18.14  Pension \$7.50 \$18.14 \$18.14 \$18.14 \$18.14	Unemployment \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment \$0.00 \$0.00 \$0.00 \$0.00	\$36.88 \$49.98 \$57.35 \$62.27 \$67.19 Total Rate \$37.28 \$50.43 \$57.95 \$62.97	
	Effective Step  1 2 3 4 5  Effective Step 1 2 3 4 5  Notes:	ve Date - 03/01/2016 percent  40 45 60 70 80 ve Date - 09/01/2016 percent  40 45 60 70 80	Apprentice Base Wage \$19.68 \$22.14 \$29.51 \$34.43 \$39.35  Apprentice Base Wage \$20.08 \$22.59 \$30.11 \$35.13 \$40.15  after / Steps are 1 yr. *1:1;1:2;2:4;3:6;4:8;5:10;6:12;7:14;8:1	Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70  Health \$9.70 \$9.70 \$9.70 \$9.70 \$9.70 \$7:9:20;10:23(1	Pension \$7.50 \$18.14 \$18.14 \$18.14 \$18.14  Pension \$7.50 \$18.14 \$18.14 \$18.14 \$18.14	Unemployment \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 Supplemental Unemployment \$0.00 \$0.00 \$0.00 \$0.00	\$36.88 \$49.98 \$57.35 \$62.27 \$67.19 Total Rate \$37.28 \$50.43 \$57.95 \$62.97	

LUMBERS & GAS								
LUMBERS & GASFITTERS LOCAL 12		09/01/201	6 \$52.41	\$11.07	\$15.14	\$0.00	\$78.62	
			03/01/201	7 \$53.41	\$11.07	\$15.14	\$0.00	\$79.62
		DLUMBED/CACEUTED I	a a a l 12					
	Effecti	ntice - PLUMBER/GASFITTER - L ve Date - 03/01/2016		77 14	ъ.	Supplemental	T . 1 D .	
	Step	percent	Apprentice Base Wage		Pension	Unemployment	Total Rate	
	1	35	\$17.98	\$11.07	\$5.63	\$0.00	\$34.68	
	2	40	\$20.54	\$11.07	\$6.37	\$0.00	\$37.98	
	3	55	\$28.25	\$11.07	\$8.56	\$0.00	\$47.88	
	4	65	\$33.38	\$11.07	\$10.03	\$0.00	\$54.48	
	5	75	\$38.52	\$11.07	\$11.48	\$0.00	\$61.07	
		ve Date - 09/01/2016	Amprantica Paga Waga	Uaalth	Pension	Supplemental Unemployment	Total Data	
	$\frac{\text{Step}}{1}$	percent 35	Apprentice Base Wage				Total Rate	
	2	40	\$18.34	\$11.07	\$5.63 \$6.26	\$0.00	\$35.04	
	3	55	\$20.96	\$11.07	\$6.36	\$0.00	\$38.39	
	4	65	\$28.83	\$11.07	\$8.55	\$0.00	\$48.45	
	5	75	\$34.07	\$11.07	\$10.02	\$0.00	\$55.16	
	3	/3	\$39.31	\$11.07	\$11.48	\$0.00	\$61.86	
	Notes:	** 1:2; 2:6; 3:10; 4:14; 5:19/Steps a	_					
		Step4 with lic\$57.78 Step5 with lic	_					
	Appre	Step4 with lic\$57.78 Step5 with lic\$ntice to Journeyworker Ratio:**	\$64.37	C \$40.10	£0.70	\$10.14	90,00	¢77.02
EUMATIC C	Appre	Step4 with lic\$57.78 Step5 with lic	03/01/201		\$9.70	\$18.14	\$0.00	
EUMATIC C	Appre	Step4 with lic\$57.78 Step5 with lic\$ntice to Journeyworker Ratio:**	03/01/2010	6 \$50.19	\$9.70	\$18.14	\$0.00	\$78.03
EUMATIC C	Appre	Step4 with lic\$57.78 Step5 with lic\$ntice to Journeyworker Ratio:**	03/01/2010 03/01/2010 03/01/2011	6 \$50.19				\$77.03 \$78.03 \$79.03
EUMATIC C  **EFITTERS LOCA  For apprentice 1	Appre CONTRO AL 537	Step4 with lic\$57.78 Step5 with lict ntice to Journeyworker Ratio:** OLS (TEMP.)	03/01/2010 09/01/2010 03/01/2011 03/01/2011	6 \$50.19 7 \$51.19	\$9.70 \$9.70	\$18.14 \$18.14	\$0.00	\$78.03 \$79.03
EUMATIC C EFITTERS LOCA  For apprentice 1  EUMATIC D	Appre CONTR AL 537  rates see " DRILL/7	Step4 with lic\$57.78 Step5 with lic: ntice to Journeyworker Ratio:** OLS (TEMP.)  Apprentice- PIPEFITTER" or "PLUMBER/PII	03/01/2010 03/01/2010 03/01/2011	5 \$35.60 \$50.19 \$51.19	\$9.70	\$18.14	\$0.00 \$0.00	\$78.03 \$79.03 \$56.60
EUMATIC C EFITTERS LOCA  For apprentice 1  EUMATIC D	Appre CONTR AL 537  rates see " DRILL/7	Step4 with lic\$57.78 Step5 with lic: ntice to Journeyworker Ratio:** OLS (TEMP.)  Apprentice- PIPEFITTER" or "PLUMBER/PII	03/01/201 09/01/201 03/01/201 03/01/201 12/01/201	6 \$50.19 7 \$51.19 5 \$35.60 6 \$36.35	\$9.70 \$9.70 \$7.45	\$18.14 \$18.14 \$13.55	\$0.00 \$0.00 \$0.00	\$78.03
EUMATIC C DEFITTERS LOCA For apprentice 1 EUMATIC E BORERS - ZONE	Appre CONTRO AL 537  rates see " DRILL/7	Step4 with lic\$57.78 Step5 with lic: ntice to Journeyworker Ratio:** OLS (TEMP.)  Apprentice- PIPEFITTER" or "PLUMBER/PII	03/01/201 09/01/201 03/01/201 03/01/201 12/01/201 06/01/201	6 \$50.19 7 \$51.19 5 \$35.60 6 \$36.35	\$9.70 \$9.70 \$7.45 \$7.45	\$18.14 \$18.14 \$13.55 \$13.55	\$0.00 \$0.00 \$0.00 \$0.00	\$78.03 \$79.03 \$56.60 \$57.35
EUMATIC C  For apprentice a  EUMATIC D  BORERS - ZONE  For apprentice a	Appre CONTR( AL 537)  rates see " DRILL/7  rates see "  & BLA	Step4 with lic\$57.78 Step5 with lics ntice to Journeyworker Ratio:** OLS (TEMP.)  Apprentice- PIPEFITTER" or "PLUMBER/PII FOOL OPERATOR  Apprentice- LABORER"	03/01/201 09/01/201 03/01/201 03/01/201 12/01/201 06/01/201	5 \$35.60 5 \$36.35 6 \$37.35	\$9.70 \$9.70 \$7.45 \$7.45	\$18.14 \$18.14 \$13.55 \$13.55	\$0.00 \$0.00 \$0.00 \$0.00	\$78.03 \$79.03 \$56.60 \$57.35 \$58.35
EUMATIC C  For apprentice a  EUMATIC D  BORERS - ZONE  For apprentice a	Appre CONTR( AL 537)  rates see " DRILL/7  rates see "  & BLA	Step4 with lic\$57.78 Step5 with lics ntice to Journeyworker Ratio:** OLS (TEMP.)  Apprentice- PIPEFITTER" or "PLUMBER/PII FOOL OPERATOR  Apprentice- LABORER"	03/01/201 09/01/201 03/01/201 03/01/201 12/01/201 12/01/201	6 \$50.19 7 \$51.19 5 \$35.60 6 \$36.35 6 \$37.35	\$9.70 \$9.70 \$7.45 \$7.45 \$7.45	\$18.14 \$18.14 \$13.55 \$13.55 \$13.55	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$78.03 \$79.03 \$56.60 \$57.35 \$58.35
EUMATIC C EFITTERS LOCA  For apprentice of the content of the cont	Appre CONTR AL 537  rates see " DRILL/7  rates see " [ & BLA	Step4 with lic\$57.78 Step5 with lict ntice to Journeyworker Ratio:** OLS (TEMP.)  Apprentice- PIPEFITTER" or "PLUMBER/PII FOOL OPERATOR  Apprentice- LABORER"	03/01/201 09/01/201 03/01/201 03/01/201 12/01/201 12/01/201 12/01/201	6 \$50.19 7 \$51.19 5 \$35.60 6 \$36.35 6 \$37.35 5 \$36.35 837.10	\$9.70 \$9.70 \$7.45 \$7.45 \$7.45	\$18.14 \$18.14 \$13.55 \$13.55 \$13.55	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$78.03 \$79.03 \$56.60 \$57.35
EUMATIC C EFITTERS LOCA  For apprentice to EUMATIC E FOR ERS - ZONE  WDERMAN FORERS - ZONE  For apprentice to EVERNAN FORERS - ZONE	Appre CONTRIAL 537  rates see " DRILL/7  rates see " [ & BLA	Step4 with lic\$57.78 Step5 with lics  ntice to Journeyworker Ratio:**  OLS (TEMP.)  Apprentice- PIPEFITTER" or "PLUMBER/PII  TOOL OPERATOR  Apprentice- LABORER"  Apprentice- LABORER"	03/01/201 09/01/201 03/01/201 12/01/201 12/01/201 12/01/201 12/01/201 12/01/201	5 \$35.60 6 \$36.35 6 \$37.35 5 \$36.35 6 \$37.10 6 \$38.10	\$9.70 \$9.70 \$7.45 \$7.45 \$7.45 \$7.45 \$7.45	\$18.14 \$18.14 \$13.55 \$13.55 \$13.55 \$13.55 \$13.55 \$13.55	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$78.03 \$79.03 \$56.60 \$57.35 \$58.35 \$57.35 \$58.10 \$59.10
EUMATIC C EFITTERS LOCA  For apprentice of the second seco	Appre CONTR AL 537  rates see " DRILL/7  rates see " [ & BLA	Step4 with lic\$57.78 Step5 with lics ntice to Journeyworker Ratio:**  OLS (TEMP.)  Apprentice- PIPEFITTER" or "PLUMBER/PIDTOOL OPERATOR  Apprentice- LABORER"  ASTER  Apprentice- LABORER"  RRICK/TRENCHING MACHINE	03/01/201 09/01/201 03/01/201 03/01/201 12/01/201 12/01/201 12/01/201 12/01/201 12/01/201	6 \$50.19 7 \$51.19 5 \$35.60 6 \$36.35 6 \$37.35 5 \$36.35 6 \$37.10 6 \$38.10	\$9.70 \$9.70 \$7.45 \$7.45 \$7.45 \$7.45 \$7.45 \$10.00	\$18.14 \$18.14 \$13.55 \$13.55 \$13.55 \$13.55 \$13.55 \$13.55 \$14.90	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$78.03 \$79.03 \$56.60 \$57.35 \$58.35 \$57.35 \$58.10 \$59.10
EUMATIC C EFITTERS LOCA  For apprentice of the second seco	Appre CONTR AL 537  rates see " DRILL/7  rates see " [ & BLA	Step4 with lic\$57.78 Step5 with lics ntice to Journeyworker Ratio:**  OLS (TEMP.)  Apprentice- PIPEFITTER" or "PLUMBER/PIDTOOL OPERATOR  Apprentice- LABORER"  ASTER  Apprentice- LABORER"  RRICK/TRENCHING MACHINE	03/01/201 09/01/201 03/01/201 03/01/201 12/01/201 12/01/201 12/01/201 12/01/201 12/01/201 12/01/201 06/01/201	6 \$50.19 7 \$51.19 5 \$35.60 6 \$36.35 6 \$37.35 5 \$36.35 6 \$37.10 6 \$38.10 5 \$43.73 6 \$44.48	\$9.70 \$9.70 \$7.45 \$7.45 \$7.45 \$7.45 \$7.45 \$10.00 \$10.00	\$18.14 \$18.14 \$13.55 \$13.55 \$13.55 \$13.55 \$13.55 \$13.55 \$14.90 \$14.90	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$78.03 \$79.03 \$56.60 \$57.35 \$58.35 \$57.35 \$58.10 \$59.10
For apprentice a powders - zone  For apprentice a powders - zone  For apprentice a powders - zone	Appre CONTR AL 537  rates see " DRILL/7  rates see " [ & BLA	Step4 with lic\$57.78 Step5 with lics ntice to Journeyworker Ratio:**  OLS (TEMP.)  Apprentice- PIPEFITTER" or "PLUMBER/PIDTOOL OPERATOR  Apprentice- LABORER"  ASTER  Apprentice- LABORER"  RRICK/TRENCHING MACHINE	03/01/201 09/01/201 03/01/201 03/01/201 12/01/201 12/01/201 12/01/201 12/01/201 12/01/201	6 \$50.19 7 \$51.19 5 \$35.60 6 \$36.35 6 \$37.35 5 \$36.35 6 \$37.10 6 \$38.10 5 \$43.73 6 \$44.48 6 \$45.73	\$9.70 \$9.70 \$7.45 \$7.45 \$7.45 \$7.45 \$7.45 \$10.00	\$18.14 \$18.14 \$13.55 \$13.55 \$13.55 \$13.55 \$13.55 \$13.55 \$14.90 \$14.90	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$78.03 \$79.03 \$56.60 \$57.35 \$58.35
For apprentice 1 DWDERMAN BORERS - ZONE For apprentice 1 DWDERMAN BORERS - ZONE	Appre CONTR AL 537  rates see " DRILL/7  rates see " [ & BLA	Step4 with lic\$57.78 Step5 with lics ntice to Journeyworker Ratio:**  OLS (TEMP.)  Apprentice- PIPEFITTER" or "PLUMBER/PIDTOOL OPERATOR  Apprentice- LABORER"  ASTER  Apprentice- LABORER"  RRICK/TRENCHING MACHINE	03/01/201 09/01/201 03/01/201 03/01/201 12/01/201 12/01/201 12/01/201 12/01/201 12/01/201 12/01/201 06/01/201	6 \$50.19 7 \$51.19 5 \$35.60 6 \$36.35 6 \$37.35 5 \$36.35 6 \$37.10 6 \$38.10 5 \$43.73 6 \$44.48 6 \$45.73	\$9.70 \$9.70 \$7.45 \$7.45 \$7.45 \$7.45 \$7.45 \$10.00 \$10.00	\$18.14 \$18.14 \$13.55 \$13.55 \$13.55 \$13.55 \$13.55 \$13.55 \$14.90 \$14.90	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$78.03 \$79.03 \$56.60 \$57.35 \$58.35 \$57.35 \$58.10 \$59.10

Effective Date Base Wage

\$51.36

03/01/2016

Classification

PLUMBERS & GASFITTERS

Supplemental

\$0.00

Unemployment

Pension

\$15.14

Health

\$11.07

**Total Rate** 

\$77.57

**Issue Date:** 05/18/2016 Wage Request Number: 20160518-058 Page 25 of 35

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PUMP OPERATOR (CONCRETE)	12/01/2015	\$43.73	\$10.00	\$14.90	\$0.00	\$68.63
OPERATING ENGINEERS LOCAL 4	06/01/2016	\$44.48	\$10.00	\$14.90	\$0.00	\$69.38
	12/01/2016	\$45.73	\$10.00	\$14.90	\$0.00	\$70.63
	06/01/2017	\$46.73	\$10.00	\$14.90	\$0.00	\$71.63
	12/01/2017	\$47.73	\$10.00	\$14.90	\$0.00	\$72.63
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (DEWATERING, OTHER)  OPERATING ENGINEERS LOCAL 4	12/01/2015	\$30.13	\$10.00	\$14.90	\$0.00	\$55.03
OF ENTITY OF ENGINEERS ESCALE (	06/01/2016	\$30.65	\$10.00	\$14.90	\$0.00	\$55.55
	12/01/2016	\$31.52	\$10.00	\$14.90	\$0.00	\$56.42
	06/01/2017	\$32.21	\$10.00	\$14.90	\$0.00	\$57.11
For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/01/2017	\$32.90	\$10.00	\$14.90	\$0.00	\$57.80
READY MIX CONCRETE DRIVERS after 4/30/10	05/01/2016	\$28.03	\$7.98	\$9.31	\$0.00	\$45.32
(Drivers Hired After 4/30/2010) TEAMSTERS LOCAL 25c	07/01/2016	\$28.03	\$8.23	\$9.31	\$0.00	\$45.57
	05/01/2017	\$28.18	\$8.23	\$9.72	\$0.00	\$46.13
	07/01/2017	\$28.18	\$8.48	\$9.72	\$0.00	\$46.38
READY-MIX CONCRETE DRIVER	05/01/2016	\$29.33	\$7.98	\$9.31	\$0.00	\$46.62
TEAMSTERS LOCAL 25c	07/01/2016	\$29.33	\$8.23	\$9.31	\$0.00	\$46.87
	05/01/2017	\$29.48	\$8.23	\$9.72	\$0.00	\$47.43
	07/01/2017	\$29.48	\$8.48	\$9.72	\$0.00	\$47.68
RECLAIMERS	12/01/2015	\$43.31	\$10.00	\$14.90	\$0.00	\$68.21
OPERATING ENGINEERS LOCAL 4	06/01/2016	\$44.06	\$10.00	\$14.90	\$0.00	\$68.96
	12/01/2016	\$45.29	\$10.00	\$14.90	\$0.00	\$70.19
	06/01/2017	\$46.28	\$10.00	\$14.90	\$0.00	\$71.18
For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/01/2017	\$47.27	\$10.00	\$14.90	\$0.00	\$72.17
RESIDENTIAL WOOD FRAME (All Other Work)  CARPENTERS - ZONE 2 (Residential Wood)	04/01/2011	\$24.24	\$8.67	\$15.51	\$0.00	\$48.42
RESIDENTIAL WOOD FRAME CARPENTER **	05/01/2011	\$24.24	\$6.34	\$6.23	\$0.00	\$36.81

<sup>\*\*</sup> 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. CARPENTERS - ZONE

**Issue Date:** 05/18/2016 **Wage Request Number:** 20160518-058 **Page 26 of 35** 

<sup>2 (</sup>Residential Wood)

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

		ive Date - 05/01/2011	A	II 1/1.	D	Supplemental	T.4.1 D.4.	
	Step	percent	Apprentice Base Wage		Pension	Unemployment	Total Rate	
	1	60	\$14.54	\$6.34	\$0.00	\$0.00	\$20.88	
	2	60	\$14.54	\$6.34	\$6.23	\$0.00	\$27.11	
	3	65	\$15.76	\$6.34	\$6.23	\$0.00	\$28.33	
	4	70	\$16.97	\$6.34	\$6.23	\$0.00	\$29.54	
	5	75	\$18.18	\$6.34	\$6.23	\$0.00	\$30.75	
	6	80	\$19.39	\$6.34	\$6.23	\$0.00	\$31.96	
	7	85	\$20.60	\$6.34	\$6.23	\$0.00	\$33.17	
	8	90	\$21.82	\$6.34	\$6.23	\$0.00	\$34.39	
	Notes:							
	Appre	entice to Journeyworker Ratio:1	5					
		D BUGGY OPERATOR	12/01/2015	\$35.60	\$7.45	\$13.55	\$0.00	\$56.6
BORERS - ZO	NE I		06/01/2016	\$36.35	\$7.45	\$13.55	\$0.00	\$57.3
For apprenti	ce rates see	"Apprentice- LABORER"	12/01/2016	\$37.35	\$7.45	\$13.55	\$0.00	\$58.3
		MULCHING MACHINE	12/01/2015	\$43.31	\$10.00	\$14.90	\$0.00	\$68.2
PERATING EN	GINEERS L	OCAL 4	06/01/2016	\$44.06	\$10.00	\$14.90	\$0.00	\$68.9
			12/01/2016	\$45.29	\$10.00	\$14.90	\$0.00	\$70.19
			06/01/2017	\$46.28	\$10.00	\$14.90	\$0.00	\$71.18
			12/01/2017	\$47.27	\$10.00	\$14.90	\$0.00	\$72.1
		"Apprentice- OPERATING ENGINEERS'						
OOFER (Ind OOFERS LOCA		Waterproofng &Roofer Damproof	g) 02/01/2016	5 \$40.11	\$11.00	\$12.90	\$0.00	\$64.0
		ntice - ROOFER - Local 33 ive Date - 02/01/2016				Supplemental		
	Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
	1	50	\$20.06	\$11.00	\$3.39	\$0.00	\$34.45	
	2	60	\$24.07	\$11.00	\$12.90	\$0.00	\$47.97	
	3	65	\$26.07	\$11.00	\$12.90	\$0.00	\$49.97	
	4	75	\$30.08	\$11.00	\$12.90	\$0.00	\$53.98	
	5	85	\$34.09	\$11.00	\$12.90	\$0.00	\$57.99	

For apprentice rates see "Apprentice- ROOFER"

ROOFERS LOCAL 33

ROOFER SLATE / TILE / PRECAST CONCRETE

Apprentice to Journeyworker Ratio:\*\*

02/01/2016

\$40.36

\$12.90

\$11.00

\$0.00

\$64.26

HEETMETAL WORKER		02/01/2016	\$43.31	\$10.70	\$21.95	\$2.28	\$78.24
EETMETAL WORKERS	LOCAL 17 - A	08/01/2016	\$44.46	\$10.70	\$21.95	\$2.28	\$79.39
		02/01/2017	\$45.56	\$10.70	\$21.95	\$2.28	\$80.49
		08/01/2017	\$46.66	\$10.70	\$21.95	\$2.28	\$81.59
		02/01/2018	\$47.81	\$10.70	\$21.95	\$2.28	\$82.74
	rentice - SHEET METAL V	WORKER - Local 17-A					
Step	percent 02/01/2016	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
$\frac{\operatorname{step}}{1}$	40	\$17.32	\$10.70	\$4.90	\$0.00	\$32.92	
2	40	\$17.32 \$17.32	\$10.70	\$4.90	\$0.00	\$32.92 \$32.92	
3	45	\$17.32 \$19.49	\$10.70	\$9.79	\$1.20	\$32.92 \$41.18	
4	45	\$19.49	\$10.70	\$9.79	\$1.20	\$41.18	
5	50	\$21.66	\$10.70	\$10.65	\$1.29	\$44.30	
6	50	\$21.66	\$10.70	\$10.90	\$1.30	\$44.56	
7	60	\$25.99	\$10.70	\$12.37	\$1.47	\$50.53	
8	65	\$28.15	\$10.70	\$13.24	\$1.56	\$53.65	
9	75	\$32.48	\$10.70	\$14.97	\$1.74	\$59.89	
10	85	\$36.81	\$10.70	\$16.18	\$1.91	\$65.60	
Effe	etive Date - 08/01/2016				Supplemental		
Step		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	
1	40	\$17.78	\$10.70	\$4.90	\$0.00	\$33.38	
2	40	\$17.78	\$10.70	\$4.90	\$0.00	\$33.38	
3	45	\$20.01	\$10.70	\$9.79	\$1.22	\$41.72	
4	45	\$20.01	\$10.70	\$9.79	\$1.22	\$41.72	
5	50	\$22.23	\$10.70	\$10.65	\$1.31	\$44.89	
6	50	\$22.23	\$10.70	\$10.90	\$1.31	\$45.14	
7	60	\$26.68	\$10.70	\$12.37	\$1.49	\$51.24	
8	65	\$28.90	\$10.70	\$13.24	\$1.59	\$54.43	
9	75	\$33.35	\$10.70	\$14.97	\$1.77	\$60.79	
10	85	\$37.79	\$10.70	\$16.18	\$1.94	\$66.61	
Note							
	Steps are 6 mos.					İ	
App	rentice to Journeyworker I	Ratio:1:4					
GN ERECTOR		06/01/2013	\$25.81	\$7.07	\$7.05	\$0.00	\$39.93

Effective Date Base Wage

Health

Pension

Classification

PAINTERS LOCAL 35 - ZONE 2

Supplemental

Unemployment

**Total Rate** 

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Pension

Apprentice -	SIGN ERECTOR - L	ocal 35 Zone 2
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	Effect	ive Date - 06/01/2013						
	Step	percent	Apprentice Base Wage	Health	Pension	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.						
	Appre	entice to Journeyworker Ratio:1:1						
		H MOVING EQUIP < 35 TONS	12/01/2015	\$33.0	4 \$10.41	\$10.08	\$0.00	\$53.53
TEAMSTERS JOIN	I COUNC	IL NO. 10 ZONE A	06/01/2016	\$33.5	4 \$10.41	\$10.08	\$0.00	\$54.03
			08/01/2016	\$33.5	4 \$10.91	\$10.08	\$0.00	\$54.53
			12/01/2016	\$33.5	4 \$10.91	\$10.89	\$0.00	\$55.34
		H MOVING EQUIP > 35 TONS	12/01/2015	\$33.3	3 \$10.41	\$10.08	\$0.00	\$53.82
TEAMSTERS JOIN	T COUNC	TIL NO. 10 ZONE A	06/01/2016	\$33.8	3 \$10.41	\$10.08	\$0.00	\$54.32
			08/01/2016	\$33.8	3 \$10.91	\$10.08	\$0.00	\$54.82
			12/01/2016	\$33.8	3 \$10.91	\$10.89	\$0.00	\$55.63
SPRINKLER F			03/01/2016	\$54.4	3 \$8.67	\$16.80	\$0.00	\$79.90
SPRINKLER FITTE	RS LOCA	L 550 - (Section A) Zone 1	10/01/2016	\$55.5	3 \$8.67	\$16.80	\$0.00	\$81.00
			03/01/2017			\$16.80	\$0.00	\$82.00

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Supplemental

Apprentice -	SPRINKLER	FITTER .	- Local 550	(Section A	) Zone 1
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**Effective Date -** 03/01/2016

	Step	percent	Apprentice Base V	Vage Healtl	h	Pension	Unemployment	Total Rate	
	1	35	\$19.05	\$8.6	7	\$8.55	\$0.00	\$36.27	
	2	40	\$21.77	\$8.6	7	\$8.55	\$0.00	\$38.99	
	3	45	\$24.49	\$8.6	7	\$8.55	\$0.00	\$41.71	
	4	50	\$27.22	\$8.6	7	\$8.55	\$0.00	\$44.44	
	5	55	\$29.94	\$8.6	7	\$8.55	\$0.00	\$47.16	
	6	60	\$32.66	\$8.6	7	\$8.55	\$0.00	\$49.88	
	7	65	\$35.38	\$8.6	7	\$8.55	\$0.00	\$52.60	
	8	70	\$38.10	\$8.6	7	\$8.55	\$0.00	\$55.32	
	9	75	\$40.82	\$8.6	7	\$8.55	\$0.00	\$58.04	
	10	80	\$43.54	\$8.6	7	\$8.55	\$0.00	\$60.76	
	Effecti	ve Date - 10/01/2016					Supplemental		
	Step	percent	Apprentice Base V	Vage Healtl	h	Pension	Unemployment	Total Rate	
	1	35	\$19.44	\$8.6	7	\$8.55	\$0.00	\$36.66	
	2	40	\$22.21	\$8.6	7	\$8.55	\$0.00	\$39.43	
	3	45	\$24.99	\$8.6	7	\$8.55	\$0.00	\$42.21	
	4	50	\$27.77	\$8.6	7	\$8.55	\$0.00	\$44.99	
	5	55	\$30.54	\$8.6	7	\$8.55	\$0.00	\$47.76	
	6	60	\$33.32	\$8.6	7	\$8.55	\$0.00	\$50.54	
	7	65	\$36.09	\$8.6	7	\$8.55	\$0.00	\$53.31	
	8	70	\$38.87	\$8.6	7	\$8.55	\$0.00	\$56.09	
	9	75	\$41.65	\$8.6	7	\$8.55	\$0.00	\$58.87	
	10	80	\$44.42	\$8.6	7	\$8.55	\$0.00	\$61.64	
	Notes:	Apprentice entered prio 40/45/50/55/60/65/70/7 Steps are 850 hours							
	Appre	i	Ratio:1:3						
EAM BOIL	ER OPEI	RATOR	12/01	/2015	\$43.31	\$10.00	\$14.90	\$0.00	\$68.21
ERATING ENG	SINEERS LC	OCAL 4			\$44.06	\$10.00	\$14.90	\$0.00	\$68.96
					\$45.29	\$10.00	\$14.90	\$0.00	\$70.19
					\$46.28	\$10.00	\$14.90	\$0.00	\$71.18
					\$47.27	\$10.00	\$14.90	\$0.00	\$72.17
For apprentice	e rates see "	Apprentice- OPERATING EN				·			
		PELLED OR TRACTO	R DRAWN 12/01	/2015	\$43.31	\$10.00	\$14.90	\$0.00	\$68.21
ERATING ENG	INEERS LC	CAL 4	06/01	/2016	\$44.06	\$10.00	\$14.90	\$0.00	\$68.96
			12/01	/2016	\$45.29	\$10.00	\$14.90	\$0.00	\$70.19
			06/01	/2017	\$46.28	\$10.00	\$14.90	\$0.00	\$71.18
For apprentice	e rates see "	Apprentice- OPERATING EN		/2017	\$47.27	\$10.00	\$14.90	\$0.00	\$72.17
		ON TECHNICIAN		/2016	\$34.63	\$13.00	\$14.55	\$0.00	\$62.18

BRICKLAYERS LOCAL 3 - MARBLE & TILE

\$10.18

\$10.18

\$49.70

\$50.27

\$19.22

\$19.22

\$0.00

\$0.00

\$79.10

\$79.67

Pension

Apprentice -	TELECOMMUNICATION TECHNICIAN - Local 103
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	ve Date - 03/01/2016				Supplemental	
Step	percent	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate
1	40	\$13.85	\$13.00	\$0.42	\$0.00	\$27.27
2	40	\$13.85	\$13.00	\$0.42	\$0.00	\$27.27
3	45	\$15.58	\$13.00	\$11.52	\$0.00	\$40.10
4	45	\$15.58	\$13.00	\$11.52	\$0.00	\$40.10
5	50	\$17.32	\$13.00	\$11.79	\$0.00	\$42.11
6	55	\$19.05	\$13.00	\$12.06	\$0.00	\$44.11
7	60	\$20.78	\$13.00	\$12.34	\$0.00	\$46.12
8	65	\$22.51	\$13.00	\$12.62	\$0.00	\$48.13
9	70	\$24.24	\$13.00	\$12.90	\$0.00	\$50.14
10	75	\$25.97	\$13.00	\$13.17	\$0.00	\$52.14
Notes:						
Appre	ntice to Journeyworker R	atio:1:1				
RAZZO FINISHEI	RS	02/01/2016	\$48.	80 \$10.18	\$19.14 \$	0.00 \$78.12

08/01/2016

02/01/2017

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

Effecti	ive Date -	02/01/2016				Supplemental	
Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate
1	50		\$24.40	\$10.18	\$19.14	\$0.00	\$53.72
2	60		\$29.28	\$10.18	\$19.14	\$0.00	\$58.60
3	70		\$34.16	\$10.18	\$19.14	\$0.00	\$63.48
4	80		\$39.04	\$10.18	\$19.14	\$0.00	\$68.36
5	90		\$43.92	\$10.18	\$19.14	\$0.00	\$73.24
Effecti	ive Date -	08/01/2016				Supplemental	
Step	percent		Apprentice Base Wage	Health	Pension	Unemployment	Total Rate
1	50		\$24.85	\$10.18	\$19.22	\$0.00	\$54.25
2	60		\$29.82	\$10.18	\$19.22	\$0.00	\$59.22
3	70		\$34.79	\$10.18	\$19.22	\$0.00	\$64.19
4	80		\$39.76	\$10.18	\$19.22	\$0.00	\$69.16
5	90		\$44.73	\$10.18	\$19.22	\$0.00	\$74.13
Notes:						. — — — —	

Apprentice to Journeyworker Ratio:1:3

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TEST BORING DRILLER	12/01/2015	\$36.70	\$7.45	\$13.75	\$0.00	\$57.90
LABORERS - FOUNDATION AND MARINE	06/01/2016	\$37.45	\$7.45	\$13.75	\$0.00	\$58.65
Escapagation and a sea "Annuarities LADORED"	12/01/2016	\$38.45	\$7.45	\$13.75	\$0.00	\$59.65
For apprentice rates see "Apprentice- LABORER"  TEST BORING DRILLER HELPER	10/01/0017	<b>***</b>	<b>A-1-</b>	012.75	ФО ОО	<b></b>
LABORERS - FOUNDATION AND MARINE	12/01/2015	\$35.42	\$7.45	\$13.75	\$0.00	\$56.62
	06/01/2016	\$36.17	\$7.45	\$13.75	\$0.00	\$57.37
For apprentice rates see "Apprentice- LABORER"	12/01/2016	\$37.17	\$7.45	\$13.75	\$0.00	\$58.37
TEST BORING LABORER	12/01/2015	\$35.30	\$7.45	\$13.75	\$0.00	\$56.50
LABORERS - FOUNDATION AND MARINE	06/01/2016	\$36.05	\$7.45	\$13.75	\$0.00	\$57.25
	12/01/2016	\$37.05	\$7.45	\$13.75	\$0.00	\$58.25
For apprentice rates see "Apprentice- LABORER"	12,01,2010	Ψ37.03	Ψ7.10	430170	Ψ0.00	Ψ20.22
TRACTORS/PORTABLE STEAM GENERATORS	12/01/2015	\$43.31	\$10.00	\$14.90	\$0.00	\$68.21
OPERATING ENGINEERS LOCAL 4	06/01/2016	\$44.06	\$10.00	\$14.90	\$0.00	\$68.96
	12/01/2016	\$45.29	\$10.00	\$14.90	\$0.00	\$70.19
	06/01/2017	\$46.28	\$10.00	\$14.90	\$0.00	\$71.18
	12/01/2017	\$47.27	\$10.00	\$14.90	\$0.00	\$72.17
For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12,01,201,	φ.,,	Ψ10.00			Ψ/2.1/
TRAILERS FOR EARTH MOVING EQUIPMENT	12/01/2015	\$33.62	\$10.41	\$10.08	\$0.00	\$54.11
TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	06/01/2016	\$34.12	\$10.41	\$10.08	\$0.00	\$54.61
	08/01/2016	\$34.12	\$10.91	\$10.08	\$0.00	\$55.11
	12/01/2016	\$34.12	\$10.91	\$10.89	\$0.00	\$55.92
TUNNEL WORK - COMPRESSED AIR	12/01/2015	\$47.58	\$7.45	\$14.15	\$0.00	\$69.18
LABORERS (COMPRESSED AIR)	06/01/2016	\$48.33	\$7.45	\$14.15	\$0.00	\$69.93
	12/01/2016	\$49.33	\$7.45	\$14.15	\$0.00	\$70.93
For apprentice rates see "Apprentice- LABORER"	12/01/2010	φ <del>τ</del> 7.55	Ψ7.43	Ψ11.13	\$0.00	\$10.73
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE)	12/01/2015	\$49.58	\$7.45	\$14.15	\$0.00	\$71.18
LABORERS (COMPRESSED AIR)	06/01/2016	\$50.33	\$7.45	\$14.15	\$0.00	\$71.93
	12/01/2016	\$51.33	\$7.45	\$14.15	\$0.00	\$72.93
For apprentice rates see "Apprentice- LABORER"	12,01,2010	ψυ1.υυ	Ψ7.10	4.5.1.2	*****	Ψ12.93
TUNNEL WORK - FREE AIR	12/01/2015	\$39.65	\$7.45	\$14.15	\$0.00	\$61.25
LABORERS (FREE AIR TUNNEL)	06/01/2016	\$40.40	\$7.45	\$14.15	\$0.00	\$62.00
	12/01/2016	\$41.40	\$7.45	\$14.15	\$0.00	\$63.00
For apprentice rates see "Apprentice- LABORER"		,	***			*
TUNNEL WORK - FREE AIR (HAZ. WASTE)	12/01/2015	\$41.65	\$7.45	\$14.15	\$0.00	\$63.25
LABORERS (FREE AIR TUNNEL)	06/01/2016	\$42.40	\$7.45	\$14.15	\$0.00	\$64.00
	12/01/2016	\$43.40	\$7.45	\$14.15	\$0.00	\$65.00
For apprentice rates see "Apprentice- LABORER"						
VAC-HAUL	12/01/2015	\$33.04	\$10.41	\$10.08	\$0.00	\$53.53
TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	06/01/2016	\$33.54	\$10.41	\$10.08	\$0.00	\$54.03
	08/01/2016	\$33.54	\$10.91	\$10.08	\$0.00	\$54.53
	12/01/2016	\$33.54	\$10.91	\$10.89	\$0.00	\$55.34
WAGON DRILL OPERATOR	12/01/2015	\$35.60	\$7.45	\$13.55	\$0.00	\$56.60
LABORERS - ZONE I	06/01/2016	\$36.35	\$7.45	\$13.55	\$0.00	\$57.35
	12/01/2016	\$37.35	\$7.45	\$13.55	\$0.00	\$58.35
For apprentice rates see "Apprentice- LABORER"	12,01,2010	Ψ27.30	Ψ			<b>400.00</b>

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
WASTE WATER PUMP OPERATOR	12/01/2015	\$43.73	\$10.00	\$14.90	\$0.00	\$68.63
OPERATING ENGINEERS LOCAL 4	06/01/2016	\$44.48	\$10.00	\$14.90	\$0.00	\$69.38
	12/01/2016	\$45.73	\$10.00	\$14.90	\$0.00	\$70.63
	06/01/2017	\$46.73	\$10.00	\$14.90	\$0.00	\$71.63
	12/01/2017	\$47.73	\$10.00	\$14.90	\$0.00	\$72.63
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
WATER METER INSTALLER PLUMBERS & GASFITTERS LOCAL 12	03/01/2016	\$51.36	\$11.07	\$15.14	\$0.00	\$77.57
	09/01/2016	\$52.41	\$11.07	\$15.14	\$0.00	\$78.62
F C DILIMPED DIDEFITED BUILDING DE	03/01/2017	\$53.41	\$11.07	\$15.14	\$0.00	\$79.62
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER.  Outside Electrical - East	GASFII IEK"					
CABLE TECHNICIAN (Power Zone)	08/30/2015	\$26.11	\$7.25	\$1.78	\$0.00	\$35.14
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104				\$1.70	\$0.00	
	08/28/2016 09/03/2017	\$26.61	\$7.50	\$1.81		\$35.91
For apprentice rates see "Apprentice- LINEMAN"	09/03/2017	\$27.14	\$7.75	\$1.01	\$0.00	\$36.70
CABLEMAN (Underground Ducts & Cables)	08/30/2015	\$36.98	\$7.25	\$8.12	\$0.00	\$52.35
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	08/28/2016	\$37.70	\$7.50	\$8.87	\$0.00	\$54.07
	09/03/2017	\$38.45	\$7.75	\$9.53	\$0.00	\$55.73
For apprentice rates see "Apprentice- LINEMAN"	07/03/2017	ψ50.15	Ψ1.13	Ψ>.00	Ψ0.00	Ψ33.73
DRIVER / GROUNDMAN CDL	08/30/2015	\$30.46	\$7.25	\$8.34	\$0.00	\$46.05
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	08/28/2016	\$31.05	\$7.50	\$8.89	\$0.00	\$47.44
	09/03/2017	\$31.66	\$7.75	\$9.44	\$0.00	\$48.85
For apprentice rates see "Apprentice- LINEMAN"						
DRIVER / GROUNDMAN -Inexperienced (<2000 Hrs)	08/30/2015	\$23.93	\$7.25	\$1.72	\$0.00	\$32.90
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	08/28/2016	\$24.39	\$7.50	\$1.73	\$0.00	\$33.62
	09/03/2017	\$24.88	\$7.75	\$1.75	\$0.00	\$34.38
For apprentice rates see "Apprentice- LINEMAN"						
EQUIPMENT OPERATOR (Class A CDL)	08/30/2015	\$36.98	\$7.25	\$12.29	\$0.00	\$56.52
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	08/28/2016	\$37.70	\$7.50	\$12.95	\$0.00	\$58.15
	09/03/2017	\$38.45	\$7.75	\$13.61	\$0.00	\$59.81
For apprentice rates see "Apprentice- LINEMAN"						
EQUIPMENT OPERATOR (Class B CDL) OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	08/30/2015	\$32.63	\$7.25	\$9.05	\$0.00	\$48.93
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	08/28/2016	\$33.26	\$7.50	\$9.63	\$0.00	\$50.39
	09/03/2017	\$33.92	\$7.75	\$10.21	\$0.00	\$51.88
For apprentice rates see "Apprentice- LINEMAN"						
GROUNDMAN OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	08/30/2015	\$23.93	\$7.25	\$1.72	\$0.00	\$32.90
SOURCE ELECTRICAL WORKERS - EAST LOCAL 104	08/28/2016	\$24.39	\$7.50	\$1.73	\$0.00	\$33.62
	09/03/2017	\$24.88	\$7.75	\$1.75	\$0.00	\$34.38
For apprentice rates see "Apprentice- LINEMAN"						
GROUNDMAN -Inexperienced (<2000 Hrs.) OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	08/30/2015	\$19.58	\$7.25	\$1.59	\$0.00	\$28.42
COLUMN TO THE TOTAL TO THE TOTAL TOT	08/28/2016	\$19.96	\$7.50	\$1.60	\$0.00	\$29.06
	09/03/2017	\$20.35	\$7.75	\$1.61	\$0.00	\$29.71
For apprentice rates see "Apprentice- LINEMAN"						
JOURNEYMAN LINEMAN OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	08/30/2015	\$43.51	\$7.25	\$15.06	\$0.00	\$65.82
	08/28/2016	\$44.35	\$7.50	\$15.83	\$0.00	\$67.68
	09/03/2017	\$45.23	\$7.75	\$16.61	\$0.00	\$69.59

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OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104

Apprentice -	LINEMAN (Outside Electrical) - East Local 104
Effective Date	08/30/2015

		00/20/2015	,					
	ffective Date ep perce		Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
$\frac{3}{1}$			\$26.11				\$36.64	
2	00		\$28.28	\$7.25 \$7.25	\$3.28 \$3.35	\$0.00 \$0.00	\$38.88	
3			\$30.46	\$7.25 \$7.25	\$3.41	\$0.00	\$30.00 \$41.12	
4								
5	, c		\$32.63	\$7.25 \$7.25	\$4.98	\$0.00	\$44.86	
6			\$34.81	\$7.25	\$5.04	\$0.00	\$47.10	
7	00		\$36.98	\$7.25	\$5.11	\$0.00	\$49.34	
,	90		\$39.16	\$7.25	\$7.17	\$0.00	\$53.58	
E	ffective Date	e - 08/28/2016				Supplemental		
St	ep perce	nt	Apprentice Base Wage	Health	Pension	Unemployment	Total Rate	:
1	60		\$26.61	\$7.50	\$3.30	\$0.00	\$37.41	
2	65		\$28.83	\$7.50	\$3.36	\$0.00	\$39.69	
3	70		\$31.05	\$7.50	\$3.43	\$0.00	\$41.98	
4	75		\$33.26	\$7.50	\$5.00	\$0.00	\$45.76	
5	80		\$35.48	\$7.50	\$5.06	\$0.00	\$48.04	
6	85		\$37.70	\$7.50	\$5.13	\$0.00	\$50.33	
7	90		\$39.92	\$7.50	\$7.20	\$0.00	\$54.62	
N	otes:							
į								
A	pprentice to	Journeyworker Ratio:1:2						
EDATA CAB		R EAST LOCAL 104	01/01/2016	\$28.98	\$4.25	\$3.12	\$0.00	\$36.35
	-	IPMENT OPERATOR  EAST LOCAL 104	01/01/2016	\$27.31	\$4.25	\$3.07	\$0.00	\$34.63
EDATA WIRI		TALLER/TECHNICIAN EAST LOCAL 104	01/01/2016	\$27.31	\$4.25	\$3.07	\$0.00	\$34.63
E TRIMMER	L WORKERS -	EAST LOCAL 104	01/31/2016	\$18.51	\$3.55	\$0.00	\$0.00	\$22.00
perating, maintair	ning, or repairin	tree work done: (a) for a utility compa g the utility company's equipment, are to wholesale tree removal.		_				
E TRIMMER	GROUNDN		01/31/2016	5 \$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.

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Classification Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Additional Apprentice Information:

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

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

All steps are six months (1000 hours.)

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

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

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