



CITY OF QUINCY, MASSACHUSETTS
PURCHASING DEPARTMENT
1305 HANCOCK STREET, QUINCY, MA 02169

DETAILED SPECIFICATIONS AND REQUIREMENTS

ISSUE DATE: JULY 8, 2013
BID CALL: JULY 25, 2013 @ 11:30 A.M.
DEPARTMENT: QUINCY COLLEGE
ITEM: REROOF PROJECT at QUINCY COLLEGE, 24 SAVILLE AVE.

1. A 5% certified check or bid bond is required.
2. A 100 % Payment and 100%Performance Bond is required.
3. The following forms, if contained in the bid documents, must be completed and signed:
 - √• Certificate of Non-Collusion
 - √• Tax Compliance Certificate
 - √• Certification Relating to Debarment and Suspension
 - √• Signature Authorization Form
 - √• Proposal Sheet 5 of 5 (Lines 28 – 39)
 - √• Certification of General/Sub-bidders on Public Construction Projects Regarding Health and Safety and Non-Collusion
4. Do not separate any sheets from this bid call.
5. All prices are to include delivery F.O.B. destination unless noted otherwise.
6. Wherever a manufacturer's name or model number is specified, it is to be clearly understood that the words "or approved equal" follow.
7. All vendors must acknowledge in writing receipt of any addenda.
8. Vendor should submit references on attached form provided.
9. **Vendor should submit one (1) original and (1) copy.**

* TO THE EXTENT APPLICABLE THE FOLLOWING SECTIONS OF MASSACHUSETTS GENERAL LAWS ARE INCORPORATED HEREIN BY REFERENCE:

**M.G.L. CHAPTER 30B, CHAPER 30, SECTIONS 39A, 39B AND 39F-R AND
M.G.L. CHAPTER 149, AS AMENDED.**

In the event of any inconsistency between the bid, Information for Bidders, Bid Forms, Conditions or any other Contract Document or potential Contract Document and these statutes; or any other applicable statutes, by-laws or regulations existing on the date on which the bid is submitted, then the statute, by-laws or regulations shall govern. Such inconsistency shall not be grounds for invalidating this invitation to bid.

NOTICE TO BIDDERS

The successful bidder will be required to conform to the payment of Prevailing Wage Rates, as determined by the Commissioner of Labor & Industries under the provision of M.G.L., Chap. 149, Sect. 26 to 27D as amended.

LIABILITY, PROPERTY DAMAGE and WORKERS' COMPENSATION coverage is required of the successful bidder before any work can be started.

DATE: _____

BIDDER: _____

ADDRESS: _____

TELEPHONE: _____

EMAIL: _____



CITY OF QUINCY, MASSACHUSETTS
PURCHASING DEPARTMENT, CITY HALL

INFORMATION AND INSTRUCTIONS TO BIDDERS

1. I. INVITING BIDS

2. (a) Sealed bids are invited for furnishing to the City of Quincy, Massachusetts, the described materials,
3. commodities or services all in accordance with the specifications and conditions attached hereto and made a part
4. thereof.

5. (b) Form of proposal to be used and copies of specifications and conditions are available at the Purchasing
6. Agent's office, 1305 Hancock Street.

7. (c) All bids must be filed with the Purchasing Agent of the City of Quincy, Massachusetts, at or before the
8. hour of time set forth in the legal and published advertisement, a copy of which is here attached, also at the definite
9. place so stated, and on the forms furnished by the Purchasing Agent. Each bid shall be accompanied by bid bond
10. or a certified check on, or a treasurer's or cashier's check issued by, a responsible bank or trust company, payable
11. to the City of Quincy, Massachusetts. The amount of such cash or check shall be not less than five percent (5%) of
12. the value of the proposed work, as estimated by the awarding authority, but in no event less than one hundred
13. dollars nor more than fifty thousand dollars. This deposit above mentioned shall be as a guarantee that the bidder
14. will enter into the proposed contract, if awarded to him. This requirement shall become effective unless stated to
15. the contrary or deleted under "Detailed Specifications and Requirements." This certified check will be returned
16. after the awarded contracts have been completely signed and proper delivery made, together with any performance
17. bond if required in the bid form.

18. (d) This proposal is genuine and not collusive or made in the interest of or in behalf of any person not
19. herein named, and that the bidder has not directly, or indirectly, induced or solicited any other bidder to put in a
20. sham bid or any other person, firm or corporation to refrain from bidding, and that the bidder has not in any
21. manner sought by collusion to secure for himself an advantage over any other bidder. Any bid made in violation
22. thereof, shall not be considered. This agreement in detail shall be found under paragraph XVIII (18) entitled
23. "Affidavit and/or Agreement."

24. (e) The successful bidder shall, within ten (10) days after the award, enter into a written contract with
25. said City in accordance with the draft of contract furnished by the City Solicitor for furnishing the described
26. materials, commodities or services and execute as a part of said contract, a satisfactory performance bond in the
27. amount of (100%) one hundred percent of the aggregate amount of the contract unless otherwise stated in the
28. "Detailed Specifications and Requirements," and shall be continued for the faithful performance of the contract
29. and executed by the Contractor and a responsible surety company.

30. (f) The right is reserved to reject any and all bids or to accept any bid or to accept any part of a bid or the
31. one deemed best for the City.

32. II. FORM OF PROPOSAL AND SIGNATURE

33. The proposal must be made on this form provided for that purpose, unless otherwise stated, enclosed in a
34. sealed envelope and plainly marked: "Bid Enclosed - Date: and Time of bid opening, (envelope provided,) and
35. addressed to the Purchasing Agent, 1305 Hancock Street, Quincy, Massachusetts. If the bid is made by an
36. individual it must be signed by the full name of the bidder, whose address must be given; if it is made by a firm -
37. (partnership) - it must be signed with the co-partnership name and by a member of the firm, and the name and
38. residential address of each member of the firm must be given. If made by a corporation it must be signed by the
39. proper officer in the corporate name, and the corporate seal must be attached to such signature. A certificate under
40. oath authorizing the proposal or contract signature as legal and binding upon the corporation must be submitted
41. with the proposal, especially before a contract is issued. No telegraphic or telephonic proposal will be considered
42. or accepted.

43. III. PROPOSALS

44. Blank spaces in the proposal must be properly filled in, using ink, indelible pencil or typewriter. Alterations
45. by erasure or interlineation must be explained or noted in the proposal over the signature of the bidder. Unless
46. otherwise stated bids will be received on one or more or all items, and the bidder may name a lump sum conditional
47. on two or more items being awarded to him. Bidders are invited to be present at the opening of proposals. Bidders
48. must specifically quote on units as shown on specification sheet. In case of error in extension of prices, the unit
49. price will govern.

50. IV. QUANTITIES

51. The quantities given are approximate, meaning more or less and are herein given and attached and are a
52. Part of the bid and/or proposal.

1. V. QUOTATION OFFERED:

2. (a) Firm price bids will be given first consideration. The city desires to have the advantage of any general
3. price decrease effective during the life of the contract, Will you, if the successful bidder, so grant?

4. (b) All quotations must be properly and correctly extended against each unit price offered.

5. (c) Every quotation sheet must be labeled at the bottom right hand section with the bidder's firm name, This
6. identification shall not be considered as a signature.

7. (d) Upon signing and offering his or their bid to the City, it shall be considered that he has seen, read and
8. had in his possession a full and complete bid call, all forms and information pertaining thereto.

9. VI. SAMPLES

10. Whenever samples are required, and so stated in specifications, all samples will be received at sender's risk
11. and expense. However, if samples are used by or retained as City Property, other than those considered as gift or
12. free or so stated in proposal, they will be paid for at the quoted unit price as offered in the proposal. Otherwise, all
13. samples will be returned with postage paid by the City. All samples must be properly marked or tagged with
14. complete identification and to also include: (1) firm name, (2) firm address, (3) catalogue number, and (4) quoted
15. price.

16. VII. PRODUCT

17. (a) The product shall meet the requirements and satisfaction of the City of Quincy and the using and/or
18. ordering department, Bidders must state and identify the product offered, such as manufacturer's name, trade
19. name, brand name and quality under each item on which they bid. If brand names are not given under each item, it
20. shall be considered "NO BID." WE MUST KNOW WHAT HAS BEEN OFFERED.

21. (b) Unless otherwise stated in writing under "Detailed Specifications" all products, material,
22. commodities, supplies or articles herein called for must be brand new, unused and the latest product manufactured
23. in the current year of any name and nature, whenever offered. Used or rebuilt or shopworn materials will not be
24. acceptable, unless otherwise stated in writing by the City.

25. VIII. BRAND NAMES

26. Wherever brand names are given or their particular specifications are mentioned or referred to, it is not the
27. City's intent to limit competition, but merely to indicate to the bidder the general type of commodity to be supplied.
28. The City invites bids on comparable commodities in all cases. All specifications and its basis are: "Or Equal."

29. IX. TERMS

30. The cash discount period shall not be less than twenty (20) days. All prices quoted or offered shall be net
31. and delivered F.O.B. using or ordering department. The cash discount will not be considered for a deciding factor
32. when determining the low bidder.

33. X. DELIVERY

34. All deliveries shall be as required and requested according to the using and/or ordering department. All
35. goods must be delivered in first class condition, if otherwise, they are subject to rejection. All deliveries shall con-
36. form in every respect with all laws applicable to the Federal Government and/or the Commonwealth of
37. Massachusetts and/or the City of Quincy.

38. The contractor shall be responsible for the delivery of the full net weight or count at the point of delivery for
39. which payment is made. Check weighing may be made by the City or any authorized representative at the point of
40. delivery or at any other point the City may elect. All original sworn certificates of weights at origin shall be attached
41. to the contractor's certificate of weight at time and place of delivery. The same shall be surrendered to the City of
42. Quincy.

43. Should the successful bidder fail to make delivery within a reasonable time after receipt of order, the City
44. Reserves the right to make the purchase on such orders at the open market and charge any excess over contract price
45. to the account of the successful bidder, who shall pay the same.

46. XI. TAXES

47. A tax exemption certificate will be issued in lieu of any refundable tax. It is desired that all prices be
48. quoted, exclusive of any tax applicable to this transaction. Such tax or taxes should be itemized and shown as a
49. separate rare item, preferably in dollars and cents, in both the proposal and on the invoices covering deliveries on a
50. contract. If the tax is applicable to this transaction, and is not definitely shown in the bidder's quotation, then such
51. quotation will be considered to be exclusive of such tax.

1. XII. INVOICING

2. Every commodity invoiced must be identified with the item number opposite such commodity shown and
3. Given on our bid form. All unit prices must be shown against each commodity invoiced; if not, invoice will be
4. returned for such information. This information will expedite the payment of all invoices. Invoices which do not
5. carry a cash discount period shall be rendered once a month. All invoices shall be rendered in triplicate to the
6. Purchasing Department, 1305 Hancock Street, Quincy, Massachusetts 02169.

7. XIII. PAYMENTS

8. Complete or partial payment on the contract will be made in approximately thirty days from date of
9. delivery or completion and acceptance, unless otherwise provided for in bidder's proposal or under "Detailed
10. Specifications."

11. XIV. FORCE MAJEURE CLAUSE

12. (a) The contractor will be excused from the performance of the contract in whole or in part, only by reason
13. of the following causes:

14. 1. When such performance is prevented by operation of law.
15. 2. When such performance is prevented by an irresistible super human cause.
16. 3. When such performance is prevented by an act of the public enemies of the Commonwealth of
17. Massachusetts, or of the United States of America, or by strike, mob violence, fire, delay in transportation beyond
18. the control of the contractor, or unavoidable casualty.
19. 4. When such performance is prevented by the inability of the contractor to secure necessary materials,
20. supplies or equipment by reason of:

21. (a) Appropriation or use thereof by the Federal Government; or

22. (b) Regulations imposed by the Federal Government.

23. (b) No other Force Majeure Clause or conditions may pertain to or become a part of this bid; and any
24. changes in the conditions stated herein will cause the bid to be rejected.

25. XV. ERRORS AND OMISSIONS

26. The contractor shall not be allowed to take advantage of any errors and/or omissions in these specifications
27. or in the contractor's specifications submitted with his proposal. Full instructions will always be given when such
28. errors or omissions are discovered.

29. XVI. PATENT RIGHTS

30. The contractor agrees to save, keep, bear harmless and fully indemnify the City and any of its officers or
31. agents from all damages, costs, or expenses in law or equity that may at any time arise or to be set up for any
32. infringement of the patent rights of any person or persons in consequence of the use of the City, or by any of its
33. officers or agents, of articles supplied under this contract, and of which the contractor is not the patentee or
34. assignee, or which the contractor is not lawfully entitled to sell.

35. XVII. DEFINITIONS

36. The following meanings are attached to the defined words when used in these specifications and the
37. contract:

38. (a) The word "City" means The City of Quincy, Massachusetts.

39. (b) The word "Bidder" means the person, firm or corporation submitting a bid on these specifications or
40. any part thereof.

41. (c) The word "Contractor" means the person, firm or corporation with whom the contract is made by
42. carrying out the provisions of these specifications and the contract.

43. (d) The words "Firm Price" shall mean a guarantee against price increase.

44. (e) Additional definitions may appear hereinafter under "Detailed Specifications."

45. XVIII. AFFIDAVIT and/or AGREEMENT

46. In all instances, the Affidavit terms and agreement contained herein shall become a part of the bid, and/or
47. proposal and/or contract in fact and without any reservation or secret evasion whatsoever.

48. The bidder named in the proposal and who has signed the same and who submits herewith to THE CITY
49. OF QUINCY, MASSACHUSETTS, the attached proposal states and agrees:

50. That he, she or they is (are) the person(s) whose name(s) is (are) signed to there hereto attached proposal; that
51. said proposal is genuine; that the same is not sham or collusive; that all statements of fact therein are true; that
52. such proposal was not made in the interest of behalf of any person, partnership, company, association, organization
53. or corporation not therein named or disclosed.

1. Affiant further deposes and says: That the bidder has not directly or indirectly by agreement,
2. communication or conference with anyone attempted to induce action prejudicial to the interest of the public body
3. which is to award the contract, or of any other bidder, or anyone else interested in the proposed contract; that the
4. bidder has not in any manner sought by collusion to secure for himself, itself, themselves, an advantage over any
5. other bidder.

6. Affiant further deposes and says that prior to the public opening and reading of bids the said bidder,
7. (a) did not, directly or indirectly, induce or solicit anyone else to submit a false or sham bid;
8. (b) did not, directly or indirectly, collude, conspire, connive or agree with anyone else that said bidder or
9. anyone else would submit a false or sham bid, or that anyone should refrain from bidding or withdraw his bid;
10. (c) did not, in any manner, directly or indirectly, seek by agreement, communication or conference with
11. anyone to raise or fix the bid price of said bidder or of anyone else, or to raise or fix any overhead, profit or cost
12. element of his, its, their price or that of anyone else;

13. (d) did not, directly or indirectly, submit his, its, their bid price or any breakdown thereof, or the
14. contents thereof, or divulge information or data relative thereto, to any corporation, partnership, company,
15. association, organization, bid, depository, or to any member or agent thereof, or to any individual or group of
16. individuals, except to the awarding authority or to any person or persons who have a partnership or other financial
17. interest with said bidder in his, its, their business.

18. Bidder shall strike out words not appropriate to his bid and initial same.

19. XIX. INSURANCE

20. An approved and satisfactory bona fide certificate of insurance in effect, to protect the insured, the con-
21. tractor and the City of Quincy resulting from this agreement, must be submitted to the City of Quincy through the
22. Purchasing Agent before any work of any name or nature can be started. This insurance must cover workmen's
23. compensation, public liability and property damage. The certificate of insurance must clearly state thereon that it
24. is a Certificate of Insurance, name of the insured and his or their address, kind of policies in effect, number of the
25. policy in effect for identification purposes, expiration date of said policy, limits of liability expressed in dollar value
26. for one person, for one accident, also the aggregate for each person and each accident, description of operations or
27. work covered and in what State or Commonwealth. There must also be a statement under signature to the effect
28. that, "in the event of cancellation of the said policies the company will mail notice thereof to the City of Quincy
29. Purchasing Agent, at 1305 Hancock Street, Quincy, Massachusetts at whose request this certificate is issued." This
30. certificate must be properly dated and legally signed by an authorized agent for the insurance company. This
31. certificate must state the name of the insurance company as underwriter and its home office address. All insurance
32. must satisfy all legal requirements as set forth in the laws, rules and regulations of the Commonwealth of
33. Massachusetts.

34. XX. CONTRACT

35. (a) The bidder to whom the award is made will be required to enter into a written contract with the City of
36. Quincy, in the form approved by the City Attorney. All materials or services given or supplied by the Contractor
37. shall conform to the applicable requirements of the City Charter, City Ordinances, or Commonwealth of
38. Massachusetts laws covering Labor, Wages, Insurance, Safety and all other legal requirements of any name or
39. Nature, as well as conforming to the specifications contained herein. In case of default by the Contractor, the City
40. reserves the right to procure the articles or services from other sources and to hold the Contractor responsible for
41. any and all excess costs occasioned by the City thereby.

42. (b) The period to be covered by the contract will be found under "Detailed Specifications."

43. (c) The City makes no guarantee as to the quantities to be delivered under the terms of the contract.

44. (d) The City reserves the right to order small quantities at the quoted prices prior to the execution of the
45. contract, as samples, testing, trial orders otherwise without any liability or commitment on the part of the City
46. whatsoever.

47. (e) Any qualifications or special information can be listed on a separate sheet and attached hereto with
48. signature.

49. (f) Any and all city purchases made as samples, testing, trial orders or of similar nature shall not be
50. considered a breach of contract or give cause for any legal action or litigation.

51. (g) Specifications, conditions, and Information and Instructions to Bidders are here attached and are a
52. part of the bid and/or proposal.

PROPOSAL TO CITY OF QUINCY, MASSACHUSETTS

1. To the Purchasing Agent
2. City of Quincy, Massachusetts

3. Date offered: _____ 20____

4. Gentlemen:

5. The undersigned hereby proposes to furnish the City of Quincy, complete or any part thereof, the listed services,
6. articles, commodities and materials, all in accordance with the attached list, conditions, specifications and the Information
7. and Instructions to Bidders made a part hereof.

8. The undersigned furthermore agrees that he will execute the necessary and satisfactory bond together with
9. necessary contract in sextuplicate within ten (10) days from the date when he shall have been notified that his proposal
10. has been accepted in whole or in part by the City of Quincy.

11. The undersigned furthermore agrees that, in case of default in executing such contract, with necessary bond, that
12. the check accompanying this bid, and the money payable thereon, shall be fortified thereby to and remain the property
13. of the City of Quincy.

14. This offer and/or proposal has been given after having had the complete bid call to work from and considered
15. the same.

16. This offer and bid has been made and given all in accordance with Article and Paragraph Number Eighteen
17. (XVIII) and made a part hereof.

18. TERMS:

- 19. (a) The discount period shall not be less than twenty (20) days.
- 20. (b) The City will receive the benefit of any general price decrease effective during the life of the contract.
- 21. (c) The City will be notified of all price decreases.
- 22. (d) This is a *firm price* meaning guarantee against price increase.
- 23. (e) Delivered F.O.B. to using department, as directed.

24. (f) This offer to be accepted on or before _____ 20____

25. Delivery Offered: _____

26. Priority Required: _____

27. Firm Name: _____

28. Signed by: _____ Signature and Title _____ Corporate Seal or L.S.

29. Address: _____

30. Signature of Partners: 1. _____ 2. _____

31. " " " 3. _____ 4. _____

32. Name of Corporation President: _____

33. Name of Corporation Secretary: _____

34. Corporation organized under State of: _____ Date: _____

35. Partner's Residential Address:

36. 1. _____

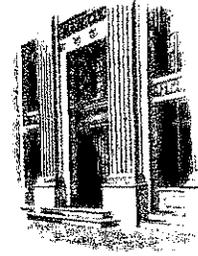
37. 2. _____

38. 3. _____

39. 4. _____



City of Quincy
City Hall
1305 Hancock Street
Quincy, Massachusetts 02169
Purchasing Department



THOMAS P. KOCH
Mayor

Kathryn R. Hobin
Purchasing Agent
Phone: (617) 376-1060
Fax: (617) 376-1074

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 work "person" shall mean any natural person, business, partnership, corporation, union committee, club or other organization, entity or group of individuals.

Name: _____

Address: _____

City, Town & Zip: _____

Email #: _____

Name of Business: _____



CITY OF QUINCY
Purchasing Department
1305 Hancock Street, Quincy, MA 02169

Phone: 376-1060

Fax: 376-1074

TAX COMPLIANCE CERTIFICATE

MASS. GENERAL LAWS, CH. 62C, S: 49A(b)

I hereby certify that I have complied with all laws of the Commonwealth of Massachusetts relating to taxes, reporting of employees and contractors, and withholding of child support.

Signed under the pains and penalties of perjury.

(1) Individual Contractor

(Contractor's Name and Signature)

Social Security Number

(2) Corporation, Association
or Partnership

(Contractor's Name)

Federal Tax ID Number, or
Social Security Number

By:

(Authorized Signature)

Note to Contractor: Please sign at (1) or (2), whichever applies.

CHAPTER 62C. ADMINISTRATIVE PROVISIONS RELATIVE TO STATE TAXATION

Chapter 62C: Section 49A Certification of compliance with tax laws as prerequisite to obtaining license or governmental contract

Section 49A. (a) Any person applying to any department, board, commission, division, authority, district or other agency of the commonwealth or any subdivision of the commonwealth, including a city, town or district, for a right or license to conduct a profession, trade or business, or for the renewal of such right or license, shall certify upon such application, under penalties of perjury, that he has complied with all laws of the commonwealth relating to taxes, reporting of employees and contractors, and withholding and remitting child support. Such right or license shall not be issued or renewed unless such certification is made.

(b) No contract or other agreement for the purposes of providing goods, services or real estate space to any of the foregoing agencies shall be entered into, renewed or extended with any person unless such person certifies in writing, under penalties of perjury, that he had complied with all laws of the commonwealth relating to taxes, reporting of employees and contractors, and withholding and remitting child support.

(c) Any such agency, which has been notified by the commissioner pursuant to section forty-seven A that a person who holds a license or certificate of authority issued by such agency or who has agreed to furnish goods, services or real estate space to such agency has neglected or refused to file any returns or to pay any tax required under this chapter and that such person has not filed in good faith a pending application for abatement of such tax or a pending petition before the appellate tax board contesting such tax or has been penalized pursuant to section 9 of chapter 62E for failure to comply with the provisions under said chapter 62E relating to reporting of employees and contractors, or has been penalized pursuant to paragraph (3) of subsection (f) of section 12 of chapter 119A for failure to comply with the provisions under said chapter 119A relating to withholding and remitting child support, shall refuse to reissue, renew or extend such license, certificate of authority, contract or agreement until the agency receives a certificate issued by the commissioner that the person is in good standing with respect to any and all returns due and taxes payable to the commissioner as of the date of issuance of said certificate, including all returns and taxes referenced in the initial notification or, if the licensee has been penalized for failure to comply with the provisions relating to reporting of employees and contractors under chapter 62E or withholding and remitting child support under chapter 119A, a certificate issued by the commissioner that the licensee is in compliance with said provisions.

(d) Any person who owns or leases a motor vehicle or trailer that is required to be registered in the commonwealth under chapter 90 and improperly registers the motor vehicle or trailer in another state or misrepresents the place of garaging of the motor vehicle or trailer in another city or town, shall be considered in violation of laws of the commonwealth relating to taxes under chapter 60A, chapter 64H or chapter 64I. The right, license or contract provided for in subsections (a) and (b) shall not be issued or renewed until the person or business entity has paid all taxes due at the time of application for such right, license or contract.

(e) Any person who, for the purpose of evading payment of a tax pursuant to chapters 59 to 64J, inclusive, willfully makes and subscribes any return, form, statement or other document pursuant to subsection (a), (b) or (d) that contains or is verified by a written declaration that is made under the penalties of perjury, and that contains information that he does not believe to be true and correct as to every matter material to his compliance with all laws of the commonwealth relating to taxes, shall be subject to section 73.



CITY OF QUINCY
Purchasing Department
1305 Hancock Street, Quincy, MA 02169

Phone: 376-1060

Fax: 376-1074

SIGNATURE AUTHORIZATION

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

(NAME OF CORPORATION)

held on _____, at which all the Directors were present or waived notice, it was
(DATE)

VOTED, that:

(NAME)

(OFFICER)

of this company, he and he/she hereby is authorized to execute Contracts and Bonds in the name and behalf of said Company, and affix its Corporate Seal thereto, and such execution of any Contract or obligation in this Company's name on its behalf by such _____ under seal of the Company, shall be valid

(OFFICER)

and binding upon this Company. It was further voted that the City of Quincy may rely on such authorization of future Contracts until notified to the contrary.

A true copy,

ATTEST: _____

(CLERK'S SIGNATURE)

PLACE OF BUSINESS: _____

DATE OF THIS CONTRACT: _____

I hereby certify that I am the Clerk of the:

(COMPANY)

that _____

(NAME)

is the

duly elected _____ of said Company, and that the above VOTE has not been
(TITLE)

amended or rescinded and remains in full force and effect as of the date of this Contract.

CORPORATE SEAL

CERTIFICATION RELATING TO DEBARMENT AND SUSPENSION

The undersigned contractor certifies to the City of Quincy that neither it nor its principals, officers or any affiliated entities has been debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction in accordance with the requirements of OMB Circular A-87 and with Executive Order 12549, "Debarment and Suspension."

Furthermore, the contractor certifies that it shall not make any subcontract or permit any subcontract to be made with any party which is debarred or suspended or is otherwise excluded in accordance with said OMB Circular and with Executive Order 12549.

This certification shall be for the benefit of the City of Quincy and its successors and/or assigns and is binding upon the contractor, its successors and assigned.

Executed under seal this _____ day of _____, _____.

Contractor Name
By its duly authorized agent,

Contract Number _____

(Authorized Signature)

CERTIFICATION OF GENERAL BIDDERS ON PUBLIC CONSTRUCTION
PROJECTS

I. CERTIFICATION REGARDING HEALTH AND SAFETY

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

II. CERTIFICATION REGARDING NON-COLLUSION AND DEBARMENT

The undersigned further certifies under the penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this subsection the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity. The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth under the provisions of section twenty-nine F of chapter twenty-nine, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder.

Date: _____

Name of General Bidder

By _____
Signature

Print name and title

Business Address

Street Address City and State

CERTIFICATION OF SUB- BIDDERS (IF ANY) ON PUBLIC CONSTRUCTION
PROJECTS

I. CERTIFICATION REGARDING HEALTH AND SAFETY

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

II. CERTIFICATION REGARDING NON-COLLUSION AND DEBARMENT

The undersigned further certifies under penalties of perjury that this subbid is in all responses bona fide, fair and made without collusion or fraud with any other person. As used in this subsection the "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity. The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth under the provisions of section twenty-nine F of chapter twenty-nine, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder.

Date _____

Name of Sub-bidder

By _____
Signature

Print Name and Title

Business Name

Street Address, City and State

REFERENCE LIST

All vendors are to fill out the following reference form, and submit it with the bid package.

Reference #1 Name: _____

Address: _____

Telephone: _____

Fax: _____

Email: _____

Reference #2 Name: _____

Address: _____

Telephone: _____

Fax: _____

Email: _____

Reference #3 Name: _____

Address: _____

Telephone: _____

Fax: _____

Email: _____

Reference #4 Name: _____

Address: _____

Telephone: _____

Fax: _____

Email: _____

Quincy College

Reroofing project
24 Saville Avenue
Quincy, MA 02169



Scope of Work: Quincy College
24 Saville Ave.
Quincy, MA 02169

1. Comply with all applicable building codes and contractor regulations and requirements as well as published manufacturers' specifications. This applies to the following procedures as well as other work associated with this project. Contractor's price must include any appropriate permit(s) as well as payment and performance bond.
2. Area to re-roof includes:
Base bid: Entire upper roof (roughly 10,918 square feet - see graphic.)
3. Scheduled Date of Completion – no later than August 30, 2013
4. Conduct core tests to generally determine wet areas of existing insulation and roof system. On roof currently covered by dry existing insulation and EPDM roof, overlay existing membrane with acceptable slip sheet (roof-manufacturer approved co-extruded polyethylene film, at minimum) and 50-mil mechanically fastened PVC roofing system as described in attached specification. Cut existing EPDM membrane every 5' prior to recover according to manufacturer's specifications
5. Remove and properly dispose of existing saturated polyisocyanurate insulation. Replace with equal thickness of polyisocyanurate insulation, roughly 4", in order to bring to level with existing roof. Match existing configuration of number of layers of polyisocyanurate insulation. Carry 25%, of roof area, or 2730 square foot of tear off and replacement in base bid. Provide unit cost for removal and replacement of additional saturated insulation discovered during roof installation.
6. If vapor barrier/retarder is discovered during tear-off of any roof area, that must be replaced and tied/sealed in prior to installation of new roofing materials. Bring to the immediate attention of building owner's representative any areas in need of further remediation found during installation including, but not limited to, wet insulation, rusted/deteriorated deck and damaged masonry on walls/perimeters.
7. Remove and properly dispose of any existing rotted metal decking. Carry 5% of roof area in base bid, or 545 sf. Properly replace and properly install with like kind.
8. Only cut and/or remove as much existing roofing materials as can be completely re-roofed that same day. Make watertight nightly tie-ins on a daily basis.
9. Install a complete 50-mil (nom.), white, mechanically-fastened PVC roofing system according to the published project specifications. The PVC roofing system used must carry the actual membrane manufacturers name and this, in turn, must be one and the same as the warrantor of the roofing system. This roofing system, in essentially its current form (reasonable updates and improvements permitted), must have 20 or more years of proven performance in the marketplace under the same corporate name. A minimum of 80% factory prefabrication of deck sheets and a minimum 80% factory prefabrication of all penetration flashings must be used. This roofing system includes prefabricated roof membrane, prefabricated flashings, fasteners, accessories and edge materials. Employ wind design required by code or ASCE-7, whichever is more rigorous.
10. Remove existing metal coping cap. Completely flash and wrap parapet walls to the outside vertical face with roof system manufacturer's standard tan, reinforced PVC membrane and properly weld to roofing membrane on deck. The resulting wall flashing should be flat (non-baggy), consistent, and aesthetically high-quality. Adhere, if needed, to accomplish this. Bear in mind that these walls are visible to nearby office buildings.

Scope of Work: Quincy College cont'd

11. Install 2-piece compression Kynar finished (or equal) metal edge system that is tested to ANSI/SPRI ES - 1 on entire building perimeter. Ensure that the building edge aesthetics (as visible from street) are preserved as designed or improved. Install new non-corrosive nailers as needed. If any damaged masonry/brick work is discovered, bring to attention of Quincy College official prior to reworking.
12. Furnish and install pressure treated wood sleepers in like kind at existing locations. Use protection pad made from roof manufacturer's walkpad or equal under sleepers in order to protect the newly installed roofing membrane.
13. Re-use existing compression rings and baskets at roof drains, where possible.
14. Furnish and install one (1) Bilco LV4848B clear domed roof access hatch (or approved equal) with associated curb flashing.
15. Remove and replace 3 skylights with approximate dimensions of 54" X 54", 78" X 143" and 59" X 143". The new skylights should reasonably match the size and must be equal to or better in quality and function to those being replaced and should meet all current applicable codes. (Duro-Light by Duro-Last or Wasco or equal). Documentation for these skylights must be submitted and approved with bid for roof. New skylights must be flashed to roof with roof system manufacturers pre-fabricated curb flashings.
16. Install 2.5' X 5' welded walk pads at known "impact" points on roof and at service locations on rooftop HVAC units. Carry 150 feet of additional walk pad for paths between hatch and units. Provide unit price for additional walk pads.
17. Provide police detail, as needed, for crane for loading of materials.
18. Replace vapor barrier, as applicable in any areas where existing vapor barrier is removed.
19. Provide roofing system manufacturer's commercial 15-year no-dollar-limit warranty. This warranty must cover consequential damages and have no exclusions for ponding water.
20. Provide for a safe, non-disruptive job-site ensuring appropriate access and disposal lanes. Keep work environment clean and safe for roof mechanics, building employees and the public. Provide portable toilets as needed.
21. All associated construction debris to be disposed of properly and legally. Premises to be left in broom clean condition
22. Submit bids to Purchasing Department, Attn. Kathryn Hobin, City of Quincy, 1305 Hancock St., Quincy, MA 02169

All questions regarding this bid should be directed to Kathryn R. Hobin, Purchasing Agent through fax: 617-376-1074 and email: khobin@quincyma.gov and cc: to kimtrillcott@quincyma.gov Questions will be accepted until July 19, 2013 at 4:00 p.m.

If you have received this bid from the City of Quincy Website or through an email, it is your responsibility to check for addenda (at www.quincyma.gov) before you turn in your proposal. The City of Quincy will not be responsible any bids received omitting addenda acknowledgement.

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract.

1.2 SUMMARY

- A. Mechanically fastened membrane roofing system.
- B. Preparation of existing roof for recovering.
- C. Factory prefabricated flashings, corners, parapets, stacks, vents, and related details
- D. Fasteners, adhesives, and other accessories required for complete roof installation.
- E. Traffic protection.

1.3 REFERENCES

- A. ASTM C 578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.
- B. ASTM C 1177/C1177M - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing.
- C. ASTM C 1289 - Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board.
- D. ASTM C 1396/C1396M - Standard Specification for Gypsum Board.
- E. ASTM D 146 - Standard Test Methods for Sampling and Testing Bitumen-Saturated Felts and Woven Fabrics for Roofing and Waterproofing.
- F. ASTM D 570 - Standard Test Method for Water Absorption of Plastics.
- G. ASTM D 751 - Standard Test Methods for Coated Fabrics.
- H. ASTM D 828 - Standard Test Method for Tensile Properties of Paper and Paperboard Using Constant-Rate-of-Elongation Apparatus.
- I. ASTM D 1079 - Standard Terminology Relating to Roofing, Waterproofing, and Bituminous Materials.
- J. ASTM D 1204 - Standard Test Method for Linear Dimensional Changes of Nonrigid Thermoplastic Sheeting or Film at Elevated Temperature.
- K. ASTM D 2136 - Standard Test Method for Coated Fabrics-Low-Temperature Bend Test.
- L. ASTM D 3045 - Standard Practice for Heat Aging of Plastics Without Load.
- M. ASTM D 3273 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber.
- N. ASTM D 4434 - Standard Specification for Poly (Vinyl Chloride) Sheet Roofing.
- O. ASTM D 5602 - Standard Test Method for Static Puncture Resistance of Roofing Membrane Specimens.

- P. ASTM D 5635 - Standard Test Method for Dynamic Puncture Resistance of Roofing Membrane Specimens.
- Q. ASTM E 108 - Standard Test Methods for Fire Tests of Roof Coverings.
- R. ASTM E 119 - Standard Test Methods for Fire Tests of Building Construction and Materials
- S. ASTM G 154 - Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials.
- T. UL - Roofing Materials and Systems Directory, Roofing Systems (TGFU.R10128).
- U. ASCE 7 - Minimum Design Loads for Buildings and Other Structures.

1.4 SYSTEM DESCRIPTION

- A. General: Provide installed roofing membrane and base flashings that remain watertight; do not permit the passage of water; and resist specified uplift pressures, thermally induced movement, and exposure to weather without failure.\
- B. Material Compatibility: Provide roofing materials that are compatible with one another under conditions of service and application required, as demonstrated by roofing membrane manufacturer based on testing and field experience.
- C. Physical Properties
 - 1. Roof product must meet the requirements of type III PVC sheet roofing as defined by ASTM D4434 and must meet or exceed the following physical properties.
 - 1. Thickness: 50-mil (1.25 mm), nominal per ASTM D751.
 - a. Manufactured with a minimum 28 mils of PVC above the reinforcement fabric.
 - 2. Breaking Strength: ≥ 390 lbf. (MD) and ≥ 438 lbf. (XMD) per ASTM D751, Grab Method.
 - 3. Elongation at Break: $\geq 31\%$ (MD) and $\geq 31\%$ (XMD) per ASTM D751, Grab Method.
 - 5. Heat Aging: 176°F for 56 days. No sign of cracking, chipping or crazing. (Per ASTM D3045).
 - 4. Factory Seam Strength: ≥ 417 lbf per ASTM D751, Grab Method.
 - 6. Tearing Strength: ≥ 132 lbf. (MD) and ≥ 163 lbf. (XMD) per ASTM D751, Procedure B.
 - 7. Low Temperature Bend (Flexibility): Pass -40°F per ASTM D2136.
 - 8. Accelerated Weathering: No cracking, checking, crazing, erosion or chalking after 5,000 hours per ASTM G154 (formerly G53).
 - 9. Linear Dimensional Change: $\leq 0.30\%$ (MD) and $\leq 0.45\%$ (XMD) per ASTM D1204 @176 \pm 2°F for 6 hours.
 - 10. Water Absorption: $\leq 1.7\%$ per ASTM D570 @158°F for 166 hours.
 - 11. Static Puncture Resistance: ≥ 56 lbs. per ASTM D5602.
 - 12. Dynamic Puncture Resistance: ≥ 14.7 ft-lbf per ASTM D5635.
- D. Cool Roofing Rating Council (CRRC) Listing.
 - 1. Membrane must be listed on CRRC website.
 - a. Initial Thermal Emittance: $\geq 88\%$
 - b. Initial Solar Reflectance: $\geq 87\%$
 - c. Initial Solar Reflective Index (SRI): ≥ 111
 - d. 3-Year Aged Solar Reflectance: $\geq 68\%$
 - e. 3-Year Aged Thermal Emittance: $\geq 84\%$
 - f. 3-Year Aged Solar Reflective Index (SRI): ≥ 82
- E. Install new roof system so that the external fire rating of the existing roof system is retained.
- F. Roofing System Design: Provide a membrane roofing system that is identical to systems that have been successfully tested by a qualified testing and inspecting agency to resist uplift pressure calculated according to *Minimum Design Loads for Buildings And Other Structures*.
- G. Current International Code Council Evaluation Services Report or Legacy Report.

1.5 SUBMITTALS

- A. Product data: For each component of the roofing system.
- B. Shop Drawings: For roofing system. Include roof plan with fastening pattern, and roofing manufacturer's standard details that are representative of those that will be encountered during installation.
- C. Samples for verification: For the following products:
 - 1. 4-inch x 6-inch sample of roofing membrane, of color specified.
 - 2. Sample of roofing membrane with factory weld.
 - 3. 4-inch x 6-inch sample of walkway pad.
 - 4. Termination bar, fascia bar with cover, drip edge and gravel stop if to be used.
 - 5. A Sample of each fastener type to be used for installing membrane, insulation/recover board, termination bar and edge details.
- D. Installer Certificates: Signed by roofing system manufacturer certifying that Installer is approved, authorized, or licensed by manufacturer to install roofing system.
- E. Manufacturer Certificates: Signed by roofing manufacturer certifying that roofing system complies with requirements specified in *Performance Requirements* Article.
- F. Maintenance Data: Outlining leak reporting procedure, maintenance requirements, and emergency repair procedures.
- G. Warranties: Submit a current sample of the manufacturer's warranty that will be issued for this project.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's warranty. Provide a letter stating the same as well as references from other building owners that have had this type of roofing system installed by this contractor.
- B. Manufacturer Qualifications: A qualified manufacturer must utilize a Quality Control Manual during the production of the membrane roofing system that has been approved by and is inspected by Underwriters Laboratories.
- C. Source Limitations: Obtain components for membrane roofing system from roofing membrane manufacturer.
- D. There shall be no deviations from roofing membrane manufacturer's specifications or the approved shop drawings without the prior written approval of the manufacturer and city of Quincy.
- E. Fire-Test-Response Characteristics: Provide membrane roofing materials with the fire-test-response characteristics indicated as determined by testing identical products per test method below by UL, FM, or another testing and inspecting agency acceptable to authorities having jurisdiction. Materials shall be identified with appropriate markings of applicable testing and inspecting agency.
 - 1. Exterior Fire-Test Exposure: Class ; ASTM E108, for application and roof slopes indicated.
 - 2. Fire-Resistance Ratings: ASTM E119, for fire-resistance-rated roof assemblies of which roofing system is a part.
- F. Preliminary Roofing Conference: Before starting roof deck construction, conduct conference at Project site. Review methods and procedures related to roof deck construction and roofing system including, but not limited to, the following:
 - 1. Meet with Owner's representative, Architect if applicable, Owner's insurer if applicable, testing and inspecting agency representative if applicable, roofing Installer, roofing system

- manufacturer's representative, deck Installer, and installers whose work interfaces with or affects roofing including installers of roof accessories and roof-mounted equipment.
2. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 3. Examine deck substrate conditions and finishes for compliance with requirements, including flatness and fastening.
 4. Review structural loading limitations of roof deck during and after roofing.
 5. Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that will affect roofing system.
 6. Review governing regulations and requirements for insurance and certificates if applicable.
 7. Review temporary protection requirements for roofing system during and after installation.
 8. Review roof observation and repair procedures after roofing installation.

1.7 DELIVERY, STORAGE AND HANDLING

- A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, and directions for storing and mixing with other components.
- B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.
 1. Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.
- C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.
- D. Handle and store roof materials and place equipment in a manner to avoid permanent deflection of deck.

1.8 PROJECT CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.

1.9 WARRANTY

- A. Contractor Warranty: The contractor shall warrant the roof application with respect to workmanship and proper application for two (2) years from the date of favorable inspection by the roof membrane manufacturer. Should any leaks covered under the warranty occur during this period, corrective action will be taken by the contractor to repair the roof to the satisfaction of the owner and the roof membrane manufacturer. All corrective work will be done at no cost to the owner or the roof membrane manufacturer.
- B. Manufacturer Warranty: Must be no-dollar limit type and provide for completion of repairs, replacement of membrane or total replacement of the roofing system at the then-current material and labor prices throughout the life of the warranty. In addition the warranty must meet the following criteria:
 1. Warranty Period: 15 years from date issued by the manufacturer.
 2. No exclusions for damage caused by ponding water or biological growth, or for incidental or consequential damages.
 3. Issued direct from and serviced by the roof membrane manufacturer.
 4. Transferable for the full term of the warranty.
 5. No additional charge for the warranty.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. In other Part 2 articles where titles below introduce lists, the following requirements apply for product selection:
1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the products specified.
 2. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the manufacturers specified.

2.2 PVC ROOFING MEMBRANE

- A. PVC Sheet: ASTM D4434, Type III, fabric reinforced, as follows:
1. Product: Subject to compliance with requirements, provide PVC roofing membrane that meets or exceeds the requirements stated under the section titled *Performance Requirements*.
 2. Thickness: 50-mil (1.25 mm), nominal. Minimum 28 mils of polymer above reinforcement scrim.
 3. Exposed Face Color: White.

2.3 AUXILIARY MATERIALS

- A. Sheet Flashing: Manufacturer's standard sheet flashing of same material, type, reinforcement, thickness, and color as PVC sheet membrane.
- B. Factory Prefabricated Flashing: Factory prefabricated flashings for pipes, curbs, inside and outside corners of same material, type, reinforcement, and color as PVC sheet membrane.
- C. Sealants and Adhesives: Caulk, pourable sealant, mastic and adhesives must be supplied by the roof membrane manufacturer.
- D. Slip Sheet and Cover Boards: Slip sheet or cover boards, of type required by the roof membrane manufacturer for the application.
- E. Termination Bars: Standard rigid exterior vinyl bar, 1.5-inch wide with slotted holes 6-inch on center must be manufactured by the roof membrane manufacturer.
- F. Edge Detail: Fascia bar and cover, factory prefabricated Drip Edge, factory prefabricated Gravel Stop and 2-Piece Compression Metal Edge must be manufactured by the roof membrane manufacturer.
- G. Vinyl Coated Metal: 24 gauge, hot-dipped galvanized, grade 90 metal with a minimum of 17-mil of manufacturer's membrane laminated to one side.
- H. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FM 4470, designed for fastening membrane to substrate, and supplied by the roof membrane manufacturer.
- I. Two-Way Vents: Provided by the roof membrane manufacturer. Install a minimum of 1 vent per each 1000 square-feet of roof area.

2.4 SUBSTRATE SLIP SHEET

- A. Product: Subject to compliance with requirements, provide a polyethylene slip supplied by the roof membrane manufacturer.
- B. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FM 4470, designed for fastening membrane to substrate, and supplied by the roof membrane manufacturer.

2.5 Walkways

- A. Flexible Walkways: Provide non-skid, maintenance-free walkway pads in areas of heavy foot traffic and around mechanical equipment. Walkway pads must be manufactured by the roof membrane manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with the following requirements and other conditions affecting performance of roofing system:
 1. Verify that roof openings/penetrations are in place, set and braced and that roof drains are securely clamped in place.
 2. Verify that wood blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thickness of insulation.
 3. For steel decks, verify that surface plane flatness and fastening of the roof deck comply with industry standards and all applicable building codes..
 4. For Concrete decks,
 - a. Verify that minimum concrete drying period recommended by the roof membrane manufacturer has passed.
 - b. Verify that concrete substrate is visibly dry and free of moisture. Test for capillary moisture by plastic sheet method according to ASTM D4263.
 - c. If roof components will be adhered to concrete deck, verify that concrete curing compounds that will impair adhesion of the components to roof deck have been removed.
 5. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing installation according to the roof membrane manufacturer's written instructions. Remove sharp projections.
- B. Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.
- C. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at the end of the workday or when rain is forecast. Remove and discard temporary seals before beginning work on adjoining roof area.

3.3 SUBSTRATE BOARD AND SLIP SHEET INSTALLATION

- A. Fasten substrate boards and slip sheets according to the roof membrane manufacturer's written instructions.

3.4 MECHANICALLY FASTENED ROOFING MEMBRANE INSTALLATION

- A. Install factory prefabricated roofing sections over area to receive roofing according to the roof membrane manufacturer's written instructions.
- B. For each prefabricated roofing section pull the first fastening tab taut and mechanically fasten to the structural deck. Unfold the roof section to expose the next fastening tab. Pull the material taut to remove wrinkles and install fasteners. Continue this procedure for each fastening tab.
 1. Fasteners and stress distribution plates must be supplied by the roof membrane manufacturer.
 2. The edge of the stress distribution plates should be aligned with the outside edge of the fastening tabs.
 3. Fastening tab and fastener spacing are based on the roof membrane manufacturer's specification.
- C. Mechanically fasten roofing membrane securely at terminations, penetrations, and perimeter per the roof membrane manufacturer's specifications.

- D. Accurately align each prefabricated roofing section in order to maintain overlaps of the minimum dimensions required by the roof membrane manufacturer.
- E. Seams: Clean seam areas, overlap roofing membrane, and hot-air weld side and end laps of roofing membrane according to the roof membrane manufacturer's written instructions to ensure a watertight seam installation.
 - 1. Hot-air welded seams must be a minimum of 1-1/2 inch wide.
 - 2. After seam has cooled make a *hands and knees* inspection with a probe. Repair any deficiencies found immediately.
- F. Penetrations: Utilize factory prefabricated flashings for penetrations such as pipes, equipment curbs, braces, and pitch pockets. These flashings shall be made of the same membrane as the roof sections. Attach each flashing to the roof membrane using hot-air welds and terminate the flashing to the penetration per the roof membrane manufacturer's specification.
- G. Drains and Scuppers: Follow membrane manufacturer's specification to properly terminate the roofing sections at drains and scuppers. Clamping rings may be used to terminate the roof section at roof drains. If the drain does not have a clamping ring, or it cannot be used, a factory prefabricated drain boot must be used. Factory prefabricated flashings must be utilized for scuppers.

3.5 BASE FLASHING INSTALLATION

- A. Install factory prefabricated sheet flashings according to the roof membrane manufacturer's specification.
- B. Utilize factory prefabricated flashings for roof penetrations.
- C. Utilize factory prefabricated inside and outside corners where necessary.
- D. Attach each flashing to the roof membrane using hot-air welds and terminate the flashing to the penetration per the roof membrane manufacturer's specification.

3.6 WALKWAY INSTALLATION

- A. Flexible Walkways: Install walkway pads in locations indicated. Heat weld walkway pads to roof membrane according to the roof membrane manufacturer's specification.

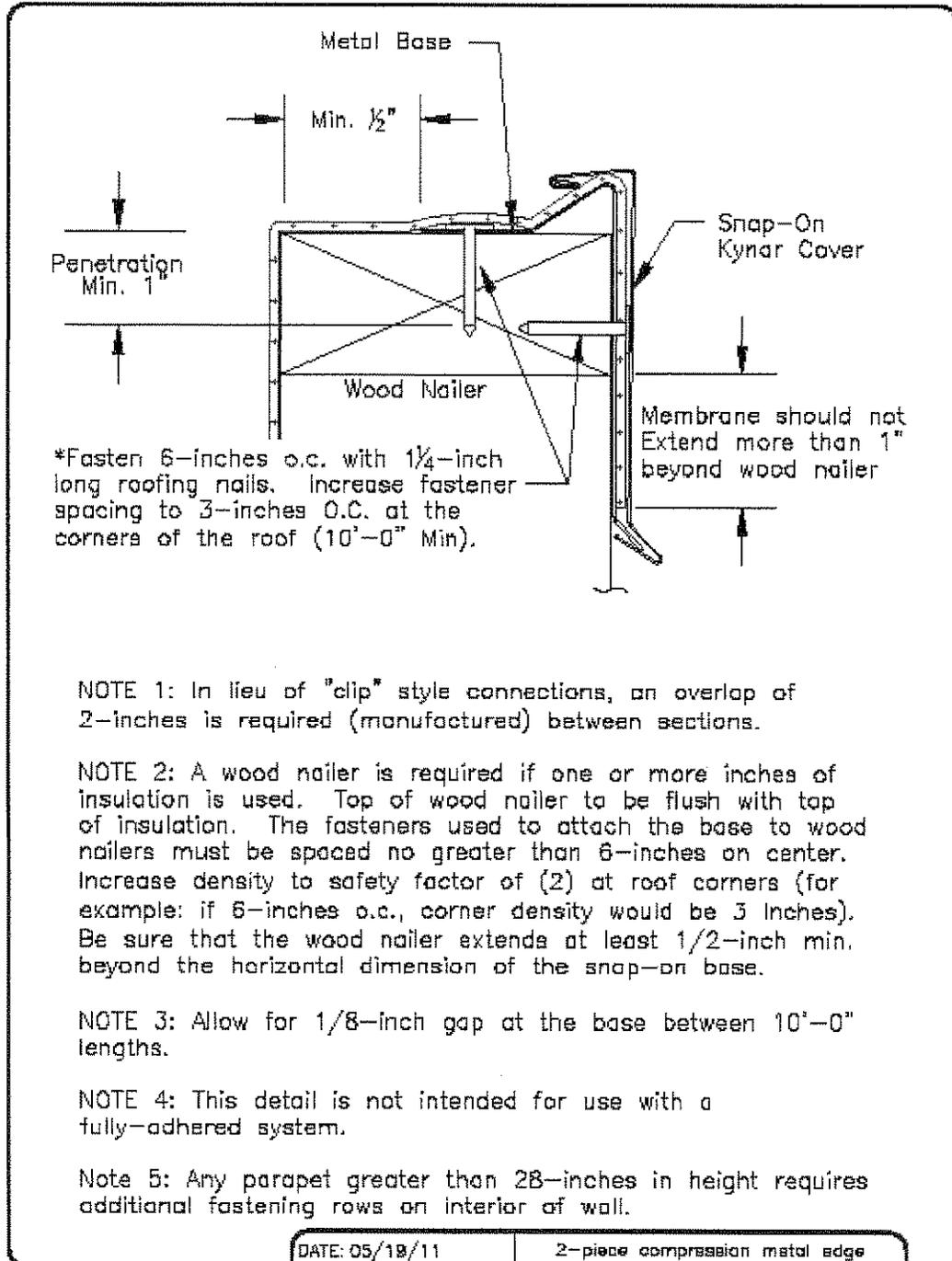
3.7 FIELD QUALITY CONTROL

- A. Final Roof Inspection: Arrange for the roof membrane manufacturer's technical representative to inspect roofing installation on completion. Every linear inch of seam made by contractor must be inspected by manufacturer's technical representative.
 - 1. Deficiencies: Any deficiencies identified during the inspection will be corrected and made ready for re-inspection within five (5) working days. Such corrections will be made at no expense to the Owner.
 - 2. Warranty: Upon receipt of the required materials, certifying inspection and acceptance of the installation by the roof membrane manufacturer, the warranty shall be duly executed and issued to the Owner.

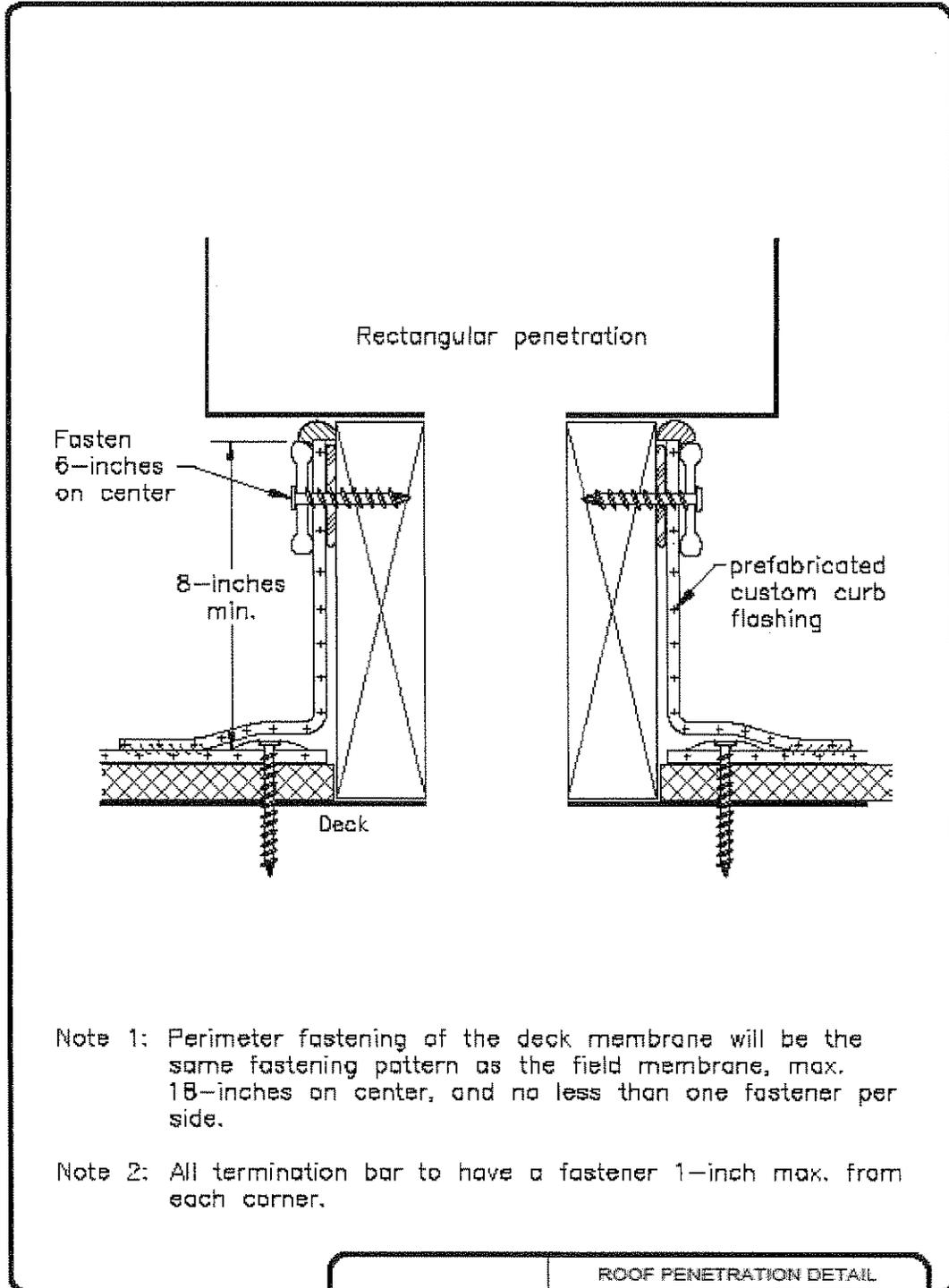
3.8 PROTECTING AND CLEANING

- A. Protect membrane roofing system from damage and wear during remainder of construction period. When remaining construction will not affect or endanger roofing, inspect roofing for deterioration and damage, describing its nature and extent in a written report, with copies to the Owner.
- B. Correct deficiencies in or remove membrane roofing system that does not comply with requirements, repair substrates, and repair or reinstall membrane roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.

- C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by the roof membrane manufacturer.



| | |
|----------------|--------------------------------|
| DATE: 05/19/11 | 2-piece compression metal edge |
| DRAWN BY: | on parapet |
| SCALE: NONE | NEW CONSTRUCTION OR REROF |

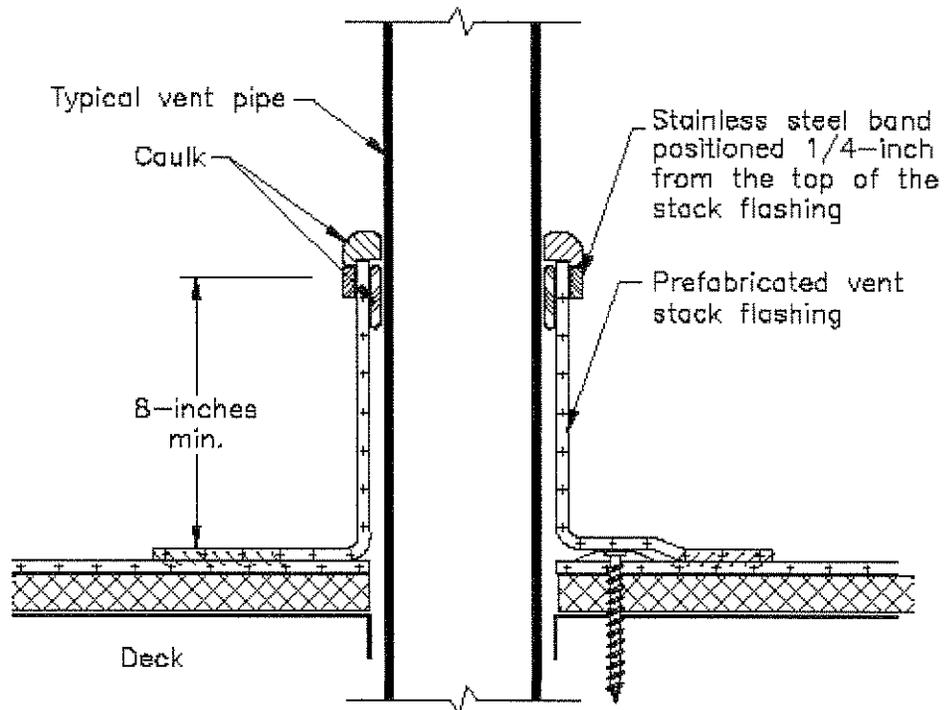


Note 1: Perimeter fastening of the deck membrane will be the same fastening pattern as the field membrane, max. 18-inches on center, and no less than one fastener per side.

Note 2: All termination bar to have a fastener 1-inch max. from each corner.

© COPYRIGHT 2006

| | |
|-------------|-----------------------------|
| | ROOF PENETRATION DETAIL |
| | RECTANGULAR PENETRATION |
| SCALE: NONE | NEW CONSTRUCTION OR RE-ROOF |

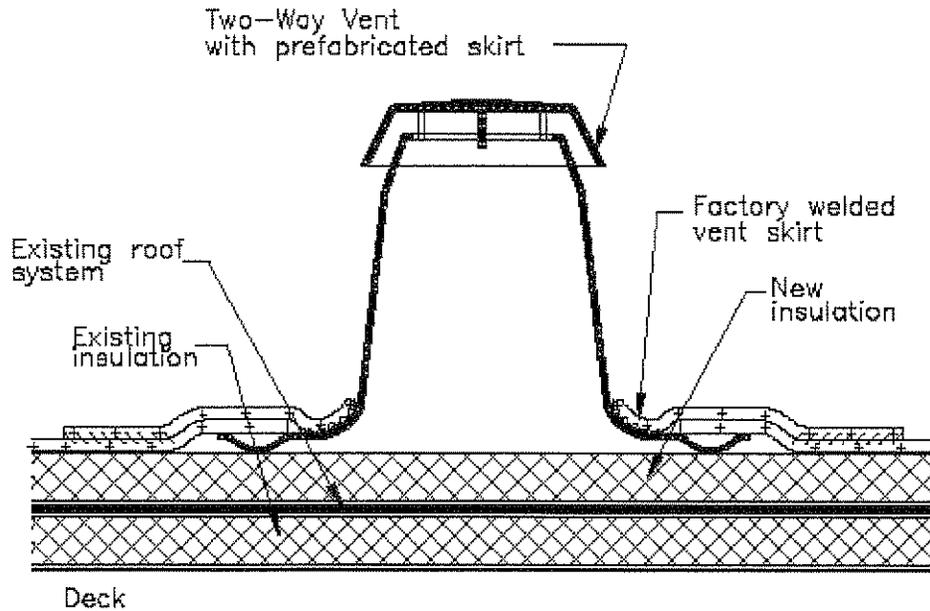


Note 1: If a lead flashing is present on the pipe, it must be removed before a stack flashing is installed.

Note 2: Membrane attachment around the penetration will be the same as the deck membrane, max. 18-inches on center, and a minimum of one plate/fastener per flashing.

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| | |
|-------------|-----------------------------|
| | ROOF PENETRATION DETAIL |
| | ROUND PENETRATION |
| SCALE: NONE | NEW CONSTRUCTION OR RE-ROOF |



- Note 1: Install one vent for every 1,000 square feet or portion of 1,000 square feet of roof area. Vents shall be evenly spaced between rows of fastening tabs across the roof. A minimum of 1 vent per roof area is required.
- Note 2: Cut a 7-inch hole through the membrane for vent installation and install the feet of the vent under the membrane. Do not fasten the vent to the deck.
- Note 3: 2-way air vents are not required on coolers or freezers, or open structures such as carports.

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| | |
|-------------|-----------------------------|
| | TWO-WAY VENT DETAIL |
| | TWO-WAY BREATHER VENT |
| SCALE: NONE | NEW CONSTRUCTION OR RE-ROOF |

Bid Form
Quincy College Reroof
24 Saville Ave.
Quincy, MA 02169

The bidder agrees to provide all materials and labor necessary to complete the specified work for the following prices:

Base bid proposal:

Roofing system proposed _____

Skylight manufacturer, type and model #'s proposed _____

The bidder agrees to provide all materials and labor necessary to complete all work as described in the scope of work and project specifications as shown on the drawings for the sum of:

_____ (\$ _____)

(Amount to be shown verbally and numerically)

Price per square foot additional tear-off and replacement \$ _____

Prices good through: _____
Month /Day/Year

Anticipated start date: _____ Anticipated completion date: _____

The undersigned hereby certifies under the penalties assigned by law that this bid is in all respects true and fair and made in good faith, and that the company represented can provide the services and materials required to complete the project within the stated timeframe, according to the specifications and project documents, and in a professional manner.

The City of Quincy shall award a contract based on the lowest responsible and eligible general bidder.

Receipt of Addendum No. _____ acknowledged by: _____

Company Name: _____

Address: _____

Telephone #: _____

Date: _____

Bid Signed By: _____

Title: _____



DEVAL L. PATRICK
Governor
TIMOTHY P. MURRAY
Lt. Governor

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

Prevailing Wage Rates

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

JOANNE F. GOLDSTEIN
Secretary
HEATHER E. ROWE
Director

Awarding Authority: City of Quincy
Contract Number: **City/Town:** QUINCY
Description of Work: Re-Roofing entire upper roof (roughly 10,819 square feet), using a Thermoplastic membrane Roofing.
Job Location: 24 Saville Avenue, Quincy, MA

Information about Prevailing Wage Schedules for Awarding Authorities and Contractors

- This wage schedule applies only to the specific project referenced at the top of this page and uniquely identified by the “Wage Request Number” on all pages of this schedule.
- Awarding authorities 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.
- 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. Once a contractor has been selected by the awarding authority, the wage schedule shall be made a part of the contract for that project. The wage schedule must be posted in a conspicuous place at the work site during 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 regardless of 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 Division of Apprentice Training (DAT). Apprentices must keep his/her apprentice identification card on his/her person during all work hours on the project. If an apprentice rate is listed on the prevailing wage schedule for the trade in which an apprentice is registered with the DAT, the apprentice may be paid the lower apprentice wage rate at the applicable step as provided on the prevailing wage schedule. **If an apprentice rate is not listed on the prevailing wage schedule for the trade in which an apprentice is registered with the DAT, the apprentice 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. 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 directly to the awarding authority 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 criminal penalties.

| Classification | Effective Date | Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|--|-----------------------|------------------|---------------|----------------|--------------------------------------|-------------------|
| Construction | | | | | | |
| (2 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE A</i> | 12/01/2012 | \$31.55 | \$8.91 | \$8.00 | \$0.00 | \$48.46 |
| (3 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE A</i> | 12/01/2012 | \$31.62 | \$8.91 | \$8.00 | \$0.00 | \$48.53 |
| (4 & 5 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE A</i> | 12/01/2012 | \$31.74 | \$8.91 | \$8.00 | \$0.00 | \$48.65 |
| ADS/SUBMERSIBLE PILOT <i>PILE DRIVER LOCAL 56 (ZONE 1)</i> | 08/01/2012 | \$82.32 | \$9.80 | \$17.67 | \$0.00 | \$109.79 |
| | 08/01/2013 | \$85.47 | \$9.80 | \$17.67 | \$0.00 | \$112.94 |
| | 08/01/2014 | \$88.62 | \$9.80 | \$17.67 | \$0.00 | \$116.09 |
| | 08/01/2015 | \$91.77 | \$9.80 | \$17.67 | \$0.00 | \$119.24 |
| AIR TRACK OPERATOR <i>LABORERS - ZONE 1</i> | 06/01/2013 | \$33.80 | \$7.10 | \$12.45 | \$0.00 | \$53.35 |
| | 12/01/2013 | \$34.55 | \$7.10 | \$12.45 | \$0.00 | \$54.10 |
| | 06/01/2014 | \$35.30 | \$7.10 | \$12.45 | \$0.00 | \$54.85 |
| | 12/01/2014 | \$36.05 | \$7.10 | \$12.45 | \$0.00 | \$55.60 |
| | 06/01/2015 | \$36.80 | \$7.10 | \$12.45 | \$0.00 | \$56.35 |
| | 12/01/2015 | \$37.55 | \$7.10 | \$12.45 | \$0.00 | \$57.10 |
| | 06/01/2016 | \$38.30 | \$7.10 | \$12.45 | \$0.00 | \$57.85 |
| | 12/01/2016 | \$39.30 | \$7.10 | \$12.45 | \$0.00 | \$58.85 |
| For apprentice rates see "Apprentice- LABORER" | | | | | | |
| ASBESTOS REMOVER - PIPE / MECH. EQUIPT. <i>HEAT & FROST INSULATORS LOCAL 6 (BOSTON)</i> | 06/01/2013 | \$29.88 | \$10.40 | \$5.95 | \$0.00 | \$46.23 |
| | 12/01/2013 | \$30.68 | \$10.40 | \$5.95 | \$0.00 | \$47.03 |
| | 06/01/2014 | \$31.58 | \$10.40 | \$5.95 | \$0.00 | \$47.93 |
| | 12/01/2014 | \$32.48 | \$10.40 | \$5.95 | \$0.00 | \$48.83 |
| | 06/01/2015 | \$33.43 | \$10.40 | \$5.95 | \$0.00 | \$49.78 |
| | 12/01/2015 | \$34.38 | \$10.40 | \$5.95 | \$0.00 | \$50.73 |
| ASPHALT RAKER <i>LABORERS - ZONE 1</i> | 06/01/2013 | \$33.30 | \$7.10 | \$12.45 | \$0.00 | \$52.85 |
| | 12/01/2013 | \$34.05 | \$7.10 | \$12.45 | \$0.00 | \$53.60 |
| | 06/01/2014 | \$34.80 | \$7.10 | \$12.45 | \$0.00 | \$54.35 |
| | 12/01/2014 | \$35.55 | \$7.10 | \$12.45 | \$0.00 | \$55.10 |
| | 06/01/2015 | \$36.30 | \$7.10 | \$12.45 | \$0.00 | \$55.85 |
| | 12/01/2015 | \$37.05 | \$7.10 | \$12.45 | \$0.00 | \$56.60 |
| | 06/01/2016 | \$37.80 | \$7.10 | \$12.45 | \$0.00 | \$57.35 |
| | 12/01/2016 | \$38.80 | \$7.10 | \$12.45 | \$0.00 | \$58.35 |
| For apprentice rates see "Apprentice- LABORER" | | | | | | |
| ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE <i>OPERATING ENGINEERS LOCAL 4</i> | 06/01/2013 | \$40.34 | \$10.00 | \$13.55 | \$0.00 | \$63.89 |
| | 12/01/2013 | \$41.12 | \$10.00 | \$13.55 | \$0.00 | \$64.67 |
| For apprentice rates see "Apprentice- OPERATING ENGINEERS" | | | | | | |
| BACKHOE/FRONT-END LOADER <i>OPERATING ENGINEERS LOCAL 4</i> | 06/01/2013 | \$40.34 | \$10.00 | \$13.55 | \$0.00 | \$63.89 |
| | 12/01/2013 | \$41.12 | \$10.00 | \$13.55 | \$0.00 | \$64.67 |
| For apprentice rates see "Apprentice- OPERATING ENGINEERS" | | | | | | |

| Classification | Effective Date | Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|---|----------------|-----------|--------|---------|---------------------------|------------|
| BARCO-TYPE JUMPING TAMPER <i>LABORERS - ZONE 1</i> | 06/01/2013 | \$33.30 | \$7.10 | \$12.45 | \$0.00 | \$52.85 |
| | 12/01/2013 | \$34.05 | \$7.10 | \$12.45 | \$0.00 | \$53.60 |
| | 06/01/2014 | \$34.80 | \$7.10 | \$12.45 | \$0.00 | \$54.35 |
| | 12/01/2014 | \$35.55 | \$7.10 | \$12.45 | \$0.00 | \$55.10 |
| | 06/01/2015 | \$36.30 | \$7.10 | \$12.45 | \$0.00 | \$55.85 |
| | 12/01/2015 | \$37.05 | \$7.10 | \$12.45 | \$0.00 | \$56.60 |
| | 06/01/2016 | \$37.80 | \$7.10 | \$12.45 | \$0.00 | \$57.35 |
| | 12/01/2016 | \$38.80 | \$7.10 | \$12.45 | \$0.00 | \$58.35 |
| For apprentice rates see "Apprentice- LABORER" | | | | | | |
| BLOCK PAVER, RAMMER / CURB SETTER <i>LABORERS - ZONE 1</i> | 06/01/2013 | \$33.80 | \$7.10 | \$12.45 | \$0.00 | \$53.35 |
| | 12/01/2013 | \$34.55 | \$7.10 | \$12.45 | \$0.00 | \$54.10 |
| | 06/01/2014 | \$35.30 | \$7.10 | \$12.45 | \$0.00 | \$54.85 |
| | 12/01/2014 | \$36.05 | \$7.10 | \$12.45 | \$0.00 | \$55.60 |
| | 06/01/2015 | \$36.80 | \$7.10 | \$12.45 | \$0.00 | \$56.35 |
| | 12/01/2015 | \$37.55 | \$7.10 | \$12.45 | \$0.00 | \$57.10 |
| | 06/01/2016 | \$38.30 | \$7.10 | \$12.45 | \$0.00 | \$57.85 |
| | 12/01/2016 | \$39.30 | \$7.10 | \$12.45 | \$0.00 | \$58.85 |
| For apprentice rates see "Apprentice- LABORER" | | | | | | |
| BOILER MAKER <i>BOILERMAKERS LOCAL 29</i> | 01/01/2010 | \$37.70 | \$6.97 | \$11.18 | \$0.00 | \$55.85 |

Apprentice - BOILERMAKER - Local 29

Effective Date - 01/01/2010

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|--------|---------|---------------------------|------------|
| 1 | 65 | \$24.51 | \$6.97 | \$11.18 | \$0.00 | \$42.66 |
| 2 | 65 | \$24.51 | \$6.97 | \$11.18 | \$0.00 | \$42.66 |
| 3 | 70 | \$26.39 | \$6.97 | \$11.18 | \$0.00 | \$44.54 |
| 4 | 75 | \$28.28 | \$6.97 | \$11.18 | \$0.00 | \$46.43 |
| 5 | 80 | \$30.16 | \$6.97 | \$11.18 | \$0.00 | \$48.31 |
| 6 | 85 | \$32.05 | \$6.97 | \$11.18 | \$0.00 | \$50.20 |
| 7 | 90 | \$33.93 | \$6.97 | \$11.18 | \$0.00 | \$52.08 |
| 8 | 95 | \$35.82 | \$6.97 | \$11.18 | \$0.00 | \$53.97 |

Notes:

Apprentice to Journeyworker Ratio:1:5

| | | | | | | |
|---|------------|---------|---------|---------|--------|---------|
| BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING) <i>BRICKLAYERS LOCAL 3 (QUINCY)</i> | 02/01/2013 | \$47.41 | \$10.18 | \$17.83 | \$0.00 | \$75.42 |
| | 08/01/2013 | \$48.31 | \$10.18 | \$17.90 | \$0.00 | \$76.39 |
| | 02/01/2014 | \$48.87 | \$10.18 | \$17.90 | \$0.00 | \$76.95 |
| | 08/01/2014 | \$49.77 | \$10.18 | \$17.97 | \$0.00 | \$77.92 |
| | 02/01/2015 | \$50.33 | \$10.18 | \$17.97 | \$0.00 | \$78.48 |
| | 08/01/2015 | \$51.23 | \$10.18 | \$18.04 | \$0.00 | \$79.45 |
| | 02/01/2016 | \$51.80 | \$10.18 | \$18.04 | \$0.00 | \$80.02 |
| | 08/01/2016 | \$52.70 | \$10.18 | \$18.12 | \$0.00 | \$81.00 |
| | 02/01/2017 | \$53.27 | \$10.18 | \$18.12 | \$0.00 | \$81.57 |

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - BRICK/PLASTER/CEMENT MASON - Local 3 Quincy

Effective Date - 02/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|---------|---------|---------------------------|------------|
| 1 | 50 | \$23.71 | \$10.18 | \$17.83 | \$0.00 | \$51.72 |
| 2 | 60 | \$28.45 | \$10.18 | \$17.83 | \$0.00 | \$56.46 |
| 3 | 70 | \$33.19 | \$10.18 | \$17.83 | \$0.00 | \$61.20 |
| 4 | 80 | \$37.93 | \$10.18 | \$17.83 | \$0.00 | \$65.94 |
| 5 | 90 | \$42.67 | \$10.18 | \$17.83 | \$0.00 | \$70.68 |

Effective Date - 08/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|---------|---------|---------------------------|------------|
| 1 | 50 | \$24.16 | \$10.18 | \$17.90 | \$0.00 | \$52.24 |
| 2 | 60 | \$28.99 | \$10.18 | \$17.90 | \$0.00 | \$57.07 |
| 3 | 70 | \$33.82 | \$10.18 | \$17.90 | \$0.00 | \$61.90 |
| 4 | 80 | \$38.65 | \$10.18 | \$17.90 | \$0.00 | \$66.73 |
| 5 | 90 | \$43.48 | \$10.18 | \$17.90 | \$0.00 | \$71.56 |

Notes:

Apprentice to Journeyworker Ratio:1:5

| | | | | | | |
|--|------------|---------|---------|---------|--------|---------|
| BULLDOZER/GRADER/SCRAPER <i>OPERATING ENGINEERS LOCAL 4</i> | 06/01/2013 | \$39.96 | \$10.00 | \$13.55 | \$0.00 | \$63.51 |
| | 12/01/2013 | \$40.74 | \$10.00 | \$13.55 | \$0.00 | \$64.29 |

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

| | | | | | | |
|--|------------|---------|--------|---------|--------|---------|
| CAISSON & UNDERPINNING BOTTOM MAN <i>LABORERS - FOUNDATION AND MARINE</i> | 06/01/2013 | \$34.20 | \$7.10 | \$12.60 | \$0.00 | \$53.90 |
| | 12/01/2013 | \$34.95 | \$7.10 | \$12.60 | \$0.00 | \$54.65 |
| | 06/01/2014 | \$35.70 | \$7.10 | \$12.60 | \$0.00 | \$55.40 |
| | 12/01/2014 | \$36.45 | \$7.10 | \$12.60 | \$0.00 | \$56.15 |
| | 06/01/2015 | \$37.20 | \$7.10 | \$12.60 | \$0.00 | \$56.90 |
| | 12/01/2015 | \$37.95 | \$7.10 | \$12.60 | \$0.00 | \$57.65 |
| | 06/01/2016 | \$38.70 | \$7.10 | \$12.60 | \$0.00 | \$58.40 |
| | 12/01/2016 | \$39.70 | \$7.10 | \$12.60 | \$0.00 | \$59.40 |

For apprentice rates see "Apprentice- LABORER"

| | | | | | | |
|---|------------|---------|--------|---------|--------|---------|
| CAISSON & UNDERPINNING LABORER <i>LABORERS - FOUNDATION AND MARINE</i> | 06/01/2013 | \$33.05 | \$7.10 | \$12.60 | \$0.00 | \$52.75 |
| | 12/01/2013 | \$33.80 | \$7.10 | \$12.60 | \$0.00 | \$53.50 |
| | 06/01/2014 | \$34.55 | \$7.10 | \$12.60 | \$0.00 | \$54.25 |
| | 12/01/2014 | \$35.30 | \$7.10 | \$12.60 | \$0.00 | \$55.00 |
| | 06/01/2015 | \$36.05 | \$7.10 | \$12.60 | \$0.00 | \$55.75 |
| | 12/01/2015 | \$36.80 | \$7.10 | \$12.60 | \$0.00 | \$56.50 |
| | 06/01/2016 | \$37.55 | \$7.10 | \$12.60 | \$0.00 | \$57.25 |
| | 12/01/2016 | \$38.55 | \$7.10 | \$12.60 | \$0.00 | \$58.25 |

For apprentice rates see "Apprentice- LABORER"

| Classification | Effective Date | Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|---|-----------------------|------------------|---------------|----------------|--------------------------------------|-------------------|
| CAISSON & UNDERPINNING TOP MAN <i>LABORERS - FOUNDATION AND MARINE</i> | 06/01/2013 | \$33.05 | \$7.10 | \$12.60 | \$0.00 | \$52.75 |
| | 12/01/2013 | \$33.80 | \$7.10 | \$12.60 | \$0.00 | \$53.50 |
| | 06/01/2014 | \$34.55 | \$7.10 | \$12.60 | \$0.00 | \$54.25 |
| | 12/01/2014 | \$35.30 | \$7.10 | \$12.60 | \$0.00 | \$55.00 |
| | 06/01/2015 | \$36.05 | \$7.10 | \$12.60 | \$0.00 | \$55.75 |
| | 12/01/2015 | \$36.80 | \$7.10 | \$12.60 | \$0.00 | \$56.50 |
| | 06/01/2016 | \$37.55 | \$7.10 | \$12.60 | \$0.00 | \$57.25 |
| | 12/01/2016 | \$38.55 | \$7.10 | \$12.60 | \$0.00 | \$58.25 |
| For apprentice rates see "Apprentice- LABORER" | | | | | | |
| CARBIDE CORE DRILL OPERATOR <i>LABORERS - ZONE 1</i> | 06/01/2013 | \$33.30 | \$7.10 | \$12.45 | \$0.00 | \$52.85 |
| | 12/01/2013 | \$34.05 | \$7.10 | \$12.45 | \$0.00 | \$53.60 |
| | 06/01/2014 | \$34.80 | \$7.10 | \$12.45 | \$0.00 | \$54.35 |
| | 12/01/2014 | \$35.55 | \$7.10 | \$12.45 | \$0.00 | \$55.10 |
| | 06/01/2015 | \$36.30 | \$7.10 | \$12.45 | \$0.00 | \$55.85 |
| | 12/01/2015 | \$37.05 | \$7.10 | \$12.45 | \$0.00 | \$56.60 |
| | 06/01/2016 | \$37.80 | \$7.10 | \$12.45 | \$0.00 | \$57.35 |
| | 12/01/2016 | \$38.80 | \$7.10 | \$12.45 | \$0.00 | \$58.35 |
| For apprentice rates see "Apprentice- LABORER" | | | | | | |
| CARPENTER <i>CARPENTERS -ZONE 2 (Eastern Massachusetts)</i> | 03/01/2013 | \$33.92 | \$9.80 | \$15.61 | \$0.00 | \$59.33 |
| | 09/01/2013 | \$34.53 | \$9.80 | \$15.61 | \$0.00 | \$59.94 |
| | 03/01/2014 | \$35.13 | \$9.80 | \$15.61 | \$0.00 | \$60.54 |
| | 09/01/2014 | \$35.90 | \$9.80 | \$15.61 | \$0.00 | \$61.31 |
| | 03/01/2015 | \$36.67 | \$9.80 | \$15.61 | \$0.00 | \$62.08 |

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - CARPENTER - Zone 2 Eastern MA

Effective Date - 03/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|--------|---------|---------------------------|------------|
| 1 | 50 | \$16.96 | \$9.80 | \$1.57 | \$0.00 | \$28.33 |
| 2 | 60 | \$20.35 | \$9.80 | \$1.57 | \$0.00 | \$31.72 |
| 3 | 70 | \$23.74 | \$9.80 | \$10.90 | \$0.00 | \$44.44 |
| 4 | 75 | \$25.44 | \$9.80 | \$10.90 | \$0.00 | \$46.14 |
| 5 | 80 | \$27.14 | \$9.80 | \$12.47 | \$0.00 | \$49.41 |
| 6 | 80 | \$27.14 | \$9.80 | \$12.47 | \$0.00 | \$49.41 |
| 7 | 90 | \$30.53 | \$9.80 | \$14.04 | \$0.00 | \$54.37 |
| 8 | 90 | \$30.53 | \$9.80 | \$14.04 | \$0.00 | \$54.37 |

Effective Date - 09/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|--------|---------|---------------------------|------------|
| 1 | 50 | \$17.27 | \$9.80 | \$1.57 | \$0.00 | \$28.64 |
| 2 | 60 | \$20.72 | \$9.80 | \$1.57 | \$0.00 | \$32.09 |
| 3 | 70 | \$24.17 | \$9.80 | \$10.90 | \$0.00 | \$44.87 |
| 4 | 75 | \$25.90 | \$9.80 | \$10.90 | \$0.00 | \$46.60 |
| 5 | 80 | \$27.62 | \$9.80 | \$12.47 | \$0.00 | \$49.89 |
| 6 | 80 | \$27.62 | \$9.80 | \$12.47 | \$0.00 | \$49.89 |
| 7 | 90 | \$31.08 | \$9.80 | \$14.04 | \$0.00 | \$54.92 |
| 8 | 90 | \$31.08 | \$9.80 | \$14.04 | \$0.00 | \$54.92 |

Notes:

Apprentice to Journeyworker Ratio:1:5

| | | | | | | |
|------------------------------|------------|---------|---------|---------|--------|---------|
| CEMENT MASONRY/PLASTERING | 01/01/2013 | \$42.57 | \$10.65 | \$18.61 | \$1.30 | \$73.13 |
| BRICKLAYERS LOCAL 3 (QUINCY) | 07/01/2013 | \$42.74 | \$10.65 | \$18.61 | \$1.30 | \$73.30 |
| | 01/01/2014 | \$43.66 | \$10.65 | \$18.61 | \$1.30 | \$74.22 |
| | 07/01/2014 | \$44.26 | \$10.65 | \$18.61 | \$1.30 | \$74.82 |
| | 01/01/2015 | \$45.20 | \$10.65 | \$18.61 | \$1.30 | \$75.76 |
| | 07/01/2015 | \$45.78 | \$10.65 | \$18.61 | \$1.30 | \$76.34 |
| | 01/01/2016 | \$46.70 | \$10.65 | \$18.61 | \$1.30 | \$77.26 |

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - CEMENT MASONRY/PLASTERING - Eastern Mass (Quincy)

Effective Date - 01/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|---------|---------|---------------------------|------------|
| 1 | 50 | \$21.29 | \$10.65 | \$12.11 | \$1.30 | \$45.35 |
| 2 | 60 | \$25.54 | \$10.65 | \$13.61 | \$1.30 | \$51.10 |
| 3 | 65 | \$27.67 | \$10.65 | \$14.61 | \$1.30 | \$54.23 |
| 4 | 70 | \$29.80 | \$10.65 | \$15.61 | \$1.30 | \$57.36 |
| 5 | 75 | \$31.93 | \$10.65 | \$16.61 | \$1.30 | \$60.49 |
| 6 | 80 | \$34.06 | \$10.65 | \$17.61 | \$1.30 | \$63.62 |
| 7 | 90 | \$38.31 | \$10.65 | \$18.61 | \$1.30 | \$68.87 |

Effective Date - 07/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|---------|---------|---------------------------|------------|
| 1 | 50 | \$21.37 | \$10.65 | \$12.11 | \$1.30 | \$45.43 |
| 2 | 60 | \$25.64 | \$10.65 | \$13.61 | \$1.30 | \$51.20 |
| 3 | 65 | \$27.78 | \$10.65 | \$14.61 | \$1.30 | \$54.34 |
| 4 | 70 | \$29.92 | \$10.65 | \$15.61 | \$1.30 | \$57.48 |
| 5 | 75 | \$32.06 | \$10.65 | \$16.61 | \$1.30 | \$60.62 |
| 6 | 80 | \$34.19 | \$10.65 | \$17.61 | \$1.30 | \$63.75 |
| 7 | 90 | \$38.47 | \$10.65 | \$18.61 | \$1.30 | \$69.03 |

Notes:

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

Apprentice to Journeyworker Ratio:1:3

| | | | | | | |
|---|------------|---------|--------|---------|--------|---------|
| CHAIN SAW OPERATOR LABORERS - ZONE 1 | 06/01/2013 | \$33.30 | \$7.10 | \$12.45 | \$0.00 | \$52.85 |
| | 12/01/2013 | \$34.05 | \$7.10 | \$12.45 | \$0.00 | \$53.60 |
| | 06/01/2014 | \$34.80 | \$7.10 | \$12.45 | \$0.00 | \$54.35 |
| | 12/01/2014 | \$35.55 | \$7.10 | \$12.45 | \$0.00 | \$55.10 |
| | 06/01/2015 | \$36.30 | \$7.10 | \$12.45 | \$0.00 | \$55.85 |
| | 12/01/2015 | \$37.05 | \$7.10 | \$12.45 | \$0.00 | \$56.60 |
| | 06/01/2016 | \$37.80 | \$7.10 | \$12.45 | \$0.00 | \$57.35 |
| | 12/01/2016 | \$38.80 | \$7.10 | \$12.45 | \$0.00 | \$58.35 |

For apprentice rates see "Apprentice- LABORER"

| | | | | | | |
|--|------------|---------|---------|---------|--------|---------|
| CLAM SHELLS/SLURRY BUCKETS/HEADING MACHINES OPERATING ENGINEERS LOCAL 4 | 06/01/2013 | \$41.34 | \$10.00 | \$13.55 | \$0.00 | \$64.89 |
| | 12/01/2013 | \$42.12 | \$10.00 | \$13.55 | \$0.00 | \$65.67 |

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

| | | | | | | |
|--|------------|---------|---------|---------|--------|---------|
| COMPRESSOR OPERATOR OPERATING ENGINEERS LOCAL 4 | 06/01/2013 | \$28.19 | \$10.00 | \$13.55 | \$0.00 | \$51.74 |
| | 12/01/2013 | \$28.74 | \$10.00 | \$13.55 | \$0.00 | \$52.29 |

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

| | | | | | | |
|---|------------|---------|--------|---------|--------|---------|
| DELEADER (BRIDGE) PAINTERS LOCAL 35 - ZONE 2 | 01/01/2013 | \$45.01 | \$7.80 | \$15.60 | \$0.00 | \$68.41 |
|---|------------|---------|--------|---------|--------|---------|

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 01/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|--------|---------|---------------------------|------------|
| 1 | 50 | \$22.51 | \$7.80 | \$0.00 | \$0.00 | \$30.31 |
| 2 | 55 | \$24.76 | \$7.80 | \$3.52 | \$0.00 | \$36.08 |
| 3 | 60 | \$27.01 | \$7.80 | \$3.84 | \$0.00 | \$38.65 |
| 4 | 65 | \$29.26 | \$7.80 | \$4.16 | \$0.00 | \$41.22 |
| 5 | 70 | \$31.51 | \$7.80 | \$13.68 | \$0.00 | \$52.99 |
| 6 | 75 | \$33.76 | \$7.80 | \$14.00 | \$0.00 | \$55.56 |
| 7 | 80 | \$36.01 | \$7.80 | \$14.32 | \$0.00 | \$58.13 |
| 8 | 90 | \$40.51 | \$7.80 | \$14.96 | \$0.00 | \$63.27 |

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

| | | | | | | |
|------------------------------------|------------|---------|--------|---------|--------|---------|
| DEMO: ADZEMAN LABORERS - ZONE 1 | 12/01/2011 | \$31.80 | \$7.10 | \$12.45 | \$0.00 | \$51.35 |
|------------------------------------|------------|---------|--------|---------|--------|---------|

For apprentice rates see "Apprentice- LABORER"

| | | | | | | |
|---|------------|---------|--------|---------|--------|---------|
| DEMO: BACKHOE/LOADER/HAMMER OPERATOR LABORERS - ZONE 1 | 12/01/2011 | \$32.80 | \$7.10 | \$12.45 | \$0.00 | \$52.35 |
|---|------------|---------|--------|---------|--------|---------|

For apprentice rates see "Apprentice- LABORER"

| | | | | | | |
|------------------------------------|------------|---------|--------|---------|--------|---------|
| DEMO: BURNERS LABORERS - ZONE 1 | 12/01/2011 | \$32.55 | \$7.10 | \$12.45 | \$0.00 | \$52.10 |
|------------------------------------|------------|---------|--------|---------|--------|---------|

For apprentice rates see "Apprentice- LABORER"

| | | | | | | |
|---|------------|---------|--------|---------|--------|---------|
| DEMO: CONCRETE CUTTER/SAWYER LABORERS - ZONE 1 | 12/01/2011 | \$32.80 | \$7.10 | \$12.45 | \$0.00 | \$52.35 |
|---|------------|---------|--------|---------|--------|---------|

For apprentice rates see "Apprentice- LABORER"

| | | | | | | |
|--|------------|---------|--------|---------|--------|---------|
| DEMO: JACKHAMMER OPERATOR LABORERS - ZONE 1 | 12/01/2011 | \$32.55 | \$7.10 | \$12.45 | \$0.00 | \$52.10 |
|--|------------|---------|--------|---------|--------|---------|

For apprentice rates see "Apprentice- LABORER"

| | | | | | | |
|---|------------|---------|--------|---------|--------|---------|
| DEMO: WRECKING LABORER LABORERS - ZONE 1 | 12/01/2011 | \$31.80 | \$7.10 | \$12.45 | \$0.00 | \$51.35 |
|---|------------|---------|--------|---------|--------|---------|

For apprentice rates see "Apprentice- LABORER"

| | | | | | | |
|---|------------|---------|---------|---------|--------|---------|
| DIRECTIONAL DRILL MACHINE OPERATOR OPERATING ENGINEERS LOCAL 4 | 06/01/2013 | \$39.96 | \$10.00 | \$13.55 | \$0.00 | \$63.51 |
| | 12/01/2013 | \$40.74 | \$10.00 | \$13.55 | \$0.00 | \$64.29 |

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

| | | | | | | |
|--|------------|---------|--------|---------|--------|---------|
| DIVER PILE DRIVER LOCAL 56 (ZONE 1) | 08/01/2012 | \$54.88 | \$9.80 | \$17.67 | \$0.00 | \$82.35 |
| | 08/01/2013 | \$56.98 | \$9.80 | \$17.67 | \$0.00 | \$84.45 |
| | 08/01/2014 | \$59.08 | \$9.80 | \$17.67 | \$0.00 | \$86.55 |
| | 08/01/2015 | \$61.18 | \$9.80 | \$17.67 | \$0.00 | \$88.65 |

| | | | | | | |
|---|------------|---------|--------|---------|--------|---------|
| DIVER TENDER PILE DRIVER LOCAL 56 (ZONE 1) | 08/01/2012 | \$54.88 | \$9.80 | \$17.67 | \$0.00 | \$82.35 |
| | 08/01/2013 | \$56.98 | \$9.80 | \$17.67 | \$0.00 | \$84.45 |
| | 08/01/2014 | \$59.08 | \$9.80 | \$17.67 | \$0.00 | \$86.55 |
| | 08/01/2015 | \$61.18 | \$9.80 | \$17.67 | \$0.00 | \$88.65 |

| Classification | Effective Date | Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|---|-----------------------|------------------|---------------|----------------|--------------------------------------|-------------------|
| DIVER TENDER (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 1)</i> | 08/01/2012 | \$58.80 | \$9.80 | \$17.67 | \$0.00 | \$86.27 |
| | 08/01/2013 | \$61.05 | \$9.80 | \$17.67 | \$0.00 | \$88.52 |
| | 08/01/2014 | \$63.30 | \$9.80 | \$17.67 | \$0.00 | \$90.77 |
| | 08/01/2015 | \$65.55 | \$9.80 | \$17.67 | \$0.00 | \$93.02 |
| DIVER/SLURRY (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 1)</i> | 08/01/2012 | \$82.32 | \$9.80 | \$17.67 | \$0.00 | \$109.79 |
| | 08/01/2013 | \$85.47 | \$9.80 | \$17.67 | \$0.00 | \$112.94 |
| | 08/01/2014 | \$88.62 | \$9.80 | \$17.67 | \$0.00 | \$116.09 |
| | 08/01/2015 | \$91.77 | \$9.80 | \$17.67 | \$0.00 | \$119.24 |
| DRAWBRIDGE OPERATOR (Construction) <i>ELECTRICIANS LOCAL 103</i> | 03/01/2013 | \$43.52 | \$13.00 | \$14.16 | \$0.00 | \$70.68 |
| | 09/01/2013 | \$44.20 | \$13.00 | \$14.18 | \$0.00 | \$71.38 |
| | 03/01/2014 | \$44.92 | \$13.00 | \$14.20 | \$0.00 | \$72.12 |
| | 09/01/2014 | \$45.60 | \$13.00 | \$14.22 | \$0.00 | \$72.82 |
| | 03/01/2015 | \$46.32 | \$13.00 | \$14.24 | \$0.00 | \$73.56 |
| | 09/01/2015 | \$47.27 | \$13.00 | \$14.27 | \$0.00 | \$74.54 |
| | 03/01/2016 | \$48.23 | \$13.00 | \$14.30 | \$0.00 | \$75.53 |
| For apprentice rates see "Apprentice- ELECTRICIAN" | | | | | | |
| ELECTRICIAN <i>ELECTRICIANS LOCAL 103</i> | 03/01/2013 | \$43.52 | \$13.00 | \$14.16 | \$0.00 | \$70.68 |
| | 09/01/2013 | \$44.20 | \$13.00 | \$14.18 | \$0.00 | \$71.38 |
| | 03/01/2014 | \$44.92 | \$13.00 | \$14.20 | \$0.00 | \$72.12 |
| | 09/01/2014 | \$45.60 | \$13.00 | \$14.22 | \$0.00 | \$72.82 |
| | 03/01/2015 | \$46.32 | \$13.00 | \$14.24 | \$0.00 | \$73.56 |
| | 09/01/2015 | \$47.27 | \$13.00 | \$14.27 | \$0.00 | \$74.54 |
| | 03/01/2016 | \$48.23 | \$13.00 | \$14.30 | \$0.00 | \$75.53 |

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - ELECTRICIAN - Local 103

Effective Date - 03/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|---------|---------|---------------------------|------------|
| 1 | 40 | \$17.41 | \$13.00 | \$0.52 | \$0.00 | \$30.93 |
| 2 | 40 | \$17.41 | \$13.00 | \$0.52 | \$0.00 | \$30.93 |
| 3 | 45 | \$19.58 | \$13.00 | \$10.53 | \$0.00 | \$43.11 |
| 4 | 45 | \$19.58 | \$13.00 | \$10.53 | \$0.00 | \$43.11 |
| 5 | 50 | \$21.76 | \$13.00 | \$10.85 | \$0.00 | \$45.61 |
| 6 | 55 | \$23.94 | \$13.00 | \$11.19 | \$0.00 | \$48.13 |
| 7 | 60 | \$26.11 | \$13.00 | \$11.51 | \$0.00 | \$50.62 |
| 8 | 65 | \$28.29 | \$13.00 | \$11.85 | \$0.00 | \$53.14 |
| 9 | 70 | \$30.46 | \$13.00 | \$12.17 | \$0.00 | \$55.63 |
| 10 | 75 | \$32.64 | \$13.00 | \$12.51 | \$0.00 | \$58.15 |

Effective Date - 09/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|---------|---------|---------------------------|------------|
| 1 | 40 | \$17.68 | \$13.00 | \$0.53 | \$0.00 | \$31.21 |
| 2 | 40 | \$17.68 | \$13.00 | \$0.53 | \$0.00 | \$31.21 |
| 3 | 45 | \$19.89 | \$13.00 | \$10.54 | \$0.00 | \$43.43 |
| 4 | 45 | \$19.89 | \$13.00 | \$10.54 | \$0.00 | \$43.43 |
| 5 | 50 | \$22.10 | \$13.00 | \$10.86 | \$0.00 | \$45.96 |
| 6 | 55 | \$24.31 | \$13.00 | \$11.20 | \$0.00 | \$48.51 |
| 7 | 60 | \$26.52 | \$13.00 | \$11.53 | \$0.00 | \$51.05 |
| 8 | 65 | \$28.73 | \$13.00 | \$11.86 | \$0.00 | \$53.59 |
| 9 | 70 | \$30.94 | \$13.00 | \$12.19 | \$0.00 | \$56.13 |
| 10 | 75 | \$33.15 | \$13.00 | \$12.53 | \$0.00 | \$58.68 |

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

Apprentice to Journeyworker Ratio:2:3***

| | | | | | | |
|---|------------|---------|--------|--------|--------|---------|
| ELEVATOR CONSTRUCTOR ELEVATOR CONSTRUCTORS LOCAL 4 | 01/01/2012 | \$52.45 | \$8.78 | \$6.96 | \$0.00 | \$68.19 |
|---|------------|---------|--------|--------|--------|---------|

Apprentice - ELEVATOR CONSTRUCTOR - Local 4

Effective Date - 01/01/2012

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|--------|---------|---------------------------|------------|
| 1 | 50 | \$26.23 | \$8.78 | \$0.00 | \$0.00 | \$35.01 |
| 2 | 55 | \$28.85 | \$8.78 | \$6.96 | \$0.00 | \$44.59 |
| 3 | 65 | \$34.09 | \$8.78 | \$6.96 | \$0.00 | \$49.83 |
| 4 | 70 | \$36.72 | \$8.78 | \$6.96 | \$0.00 | \$52.46 |
| 5 | 80 | \$41.96 | \$8.78 | \$6.96 | \$0.00 | \$57.70 |

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

Apprentice to Journeyworker Ratio:1:1

| | | | | | | |
|---|------------|---------|---------|---------|--------|---------|
| ELEVATOR CONSTRUCTOR HELPER <i>ELEVATOR CONSTRUCTORS LOCAL 4</i> | 01/01/2012 | \$38.59 | \$8.78 | \$6.96 | \$0.00 | \$54.33 |
| FENCE & GUARD RAIL ERECTOR <i>LABORERS - ZONE 1</i> | 06/01/2013 | \$33.30 | \$7.10 | \$12.45 | \$0.00 | \$52.85 |
| | 12/01/2013 | \$34.05 | \$7.10 | \$12.45 | \$0.00 | \$53.60 |
| | 06/01/2014 | \$34.80 | \$7.10 | \$12.45 | \$0.00 | \$54.35 |
| | 12/01/2014 | \$35.55 | \$7.10 | \$12.45 | \$0.00 | \$55.10 |
| | 06/01/2015 | \$36.30 | \$7.10 | \$12.45 | \$0.00 | \$55.85 |
| | 12/01/2015 | \$37.05 | \$7.10 | \$12.45 | \$0.00 | \$56.60 |
| | 06/01/2016 | \$37.80 | \$7.10 | \$12.45 | \$0.00 | \$57.35 |
| | 12/01/2016 | \$38.80 | \$7.10 | \$12.45 | \$0.00 | \$58.35 |
| For apprentice rates see "Apprentice- LABORER" | | | | | | |
| FIELD ENG.INST.PERSON-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i> | 05/01/2013 | \$38.50 | \$10.00 | \$13.02 | \$0.00 | \$61.52 |
| | 11/01/2013 | \$39.26 | \$10.00 | \$13.02 | \$0.00 | \$62.28 |
| | 05/01/2014 | \$40.03 | \$10.00 | \$13.02 | \$0.00 | \$63.05 |
| For apprentice rates see "Apprentice- OPERATING ENGINEERS" | | | | | | |
| FIELD ENG.PARTY CHIEF-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i> | 05/01/2013 | \$39.91 | \$10.00 | \$13.02 | \$0.00 | \$62.93 |
| | 11/01/2013 | \$40.68 | \$10.00 | \$13.02 | \$0.00 | \$63.70 |
| | 05/01/2014 | \$41.45 | \$10.00 | \$13.02 | \$0.00 | \$64.47 |
| For apprentice rates see "Apprentice- OPERATING ENGINEERS" | | | | | | |
| FIELD ENG.ROD PERSON-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i> | 05/01/2013 | \$21.17 | \$10.00 | \$13.02 | \$0.00 | \$44.19 |
| | 11/01/2013 | \$21.63 | \$10.00 | \$13.02 | \$0.00 | \$44.65 |
| | 05/01/2014 | \$22.08 | \$10.00 | \$13.02 | \$0.00 | \$45.10 |
| For apprentice rates see "Apprentice- OPERATING ENGINEERS" | | | | | | |
| FIRE ALARM INSTALLER <i>ELECTRICIANS LOCAL 103</i> | 03/01/2013 | \$43.52 | \$13.00 | \$14.16 | \$0.00 | \$70.68 |
| | 09/01/2013 | \$44.20 | \$13.00 | \$14.18 | \$0.00 | \$71.38 |
| | 03/01/2014 | \$44.92 | \$13.00 | \$14.20 | \$0.00 | \$72.12 |
| | 09/01/2014 | \$45.60 | \$13.00 | \$14.22 | \$0.00 | \$72.82 |
| | 03/01/2015 | \$46.32 | \$13.00 | \$14.24 | \$0.00 | \$73.56 |
| | 09/01/2015 | \$47.27 | \$13.00 | \$14.27 | \$0.00 | \$74.54 |
| | 03/01/2016 | \$48.23 | \$13.00 | \$14.30 | \$0.00 | \$75.53 |
| For apprentice rates see "Apprentice- ELECTRICIAN" | | | | | | |

| Classification | Effective Date | Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|--|-----------------------|------------------|---------------|----------------|--------------------------------------|-------------------|
| FIRE ALARM REPAIR / MAINTENANCE | 03/01/2013 | \$32.64 | \$13.00 | \$12.51 | \$0.00 | \$58.15 |
| LOCAL 103 / COMMISSIONING <i>ELECTRICIANS</i> | 09/01/2013 | \$33.15 | \$13.00 | \$12.52 | \$0.00 | \$58.67 |
| | 03/01/2014 | \$33.69 | \$13.00 | \$12.54 | \$0.00 | \$59.23 |
| | 09/01/2014 | \$34.20 | \$13.00 | \$12.56 | \$0.00 | \$59.76 |
| | 03/01/2015 | \$34.74 | \$13.00 | \$12.57 | \$0.00 | \$60.31 |
| | 09/01/2015 | \$35.45 | \$13.00 | \$12.59 | \$0.00 | \$61.04 |
| | 03/01/2016 | \$36.17 | \$13.00 | \$12.62 | \$0.00 | \$61.79 |
| For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN" | | | | | | |
| FIREMAN (ASST. ENGINEER) | 06/01/2013 | \$33.73 | \$10.00 | \$13.55 | \$0.00 | \$57.28 |
| OPERATING ENGINEERS LOCAL 4 | 12/01/2013 | \$34.39 | \$10.00 | \$13.55 | \$0.00 | \$57.94 |
| For apprentice rates see "Apprentice- OPERATING ENGINEERS" | | | | | | |
| FLAGGER & SIGNALER | 06/01/2013 | \$20.50 | \$7.10 | \$12.45 | \$0.00 | \$40.05 |
| LABORERS - ZONE 1 | 12/01/2013 | \$20.50 | \$7.10 | \$12.45 | \$0.00 | \$40.05 |
| | 06/01/2014 | \$20.50 | \$7.10 | \$12.45 | \$0.00 | \$40.05 |
| | 12/01/2014 | \$20.50 | \$7.10 | \$12.45 | \$0.00 | \$40.05 |
| | 06/01/2015 | \$20.50 | \$7.10 | \$12.45 | \$0.00 | \$40.05 |
| | 12/01/2015 | \$20.50 | \$7.10 | \$12.45 | \$0.00 | \$40.05 |
| | 06/01/2016 | \$20.50 | \$7.10 | \$12.45 | \$0.00 | \$40.05 |
| | 12/01/2016 | \$20.50 | \$7.10 | \$12.45 | \$0.00 | \$40.05 |
| For apprentice rates see "Apprentice- LABORER" | | | | | | |
| FLOORCOVERER | 03/01/2013 | \$38.61 | \$9.80 | \$16.71 | \$0.00 | \$65.12 |
| FLOORCOVERERS LOCAL 2168 ZONE 1 | 09/01/2013 | \$38.61 | \$9.80 | \$16.71 | \$0.00 | \$65.12 |
| | 03/01/2014 | \$38.61 | \$9.80 | \$16.71 | \$0.00 | \$65.12 |

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - FLOORCOVERER - Local 2168 Zone I

Effective Date - 03/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|--------|---------|---------------------------|------------|
| 1 | 50 | \$19.31 | \$9.80 | \$1.79 | \$0.00 | \$30.90 |
| 2 | 55 | \$21.24 | \$9.80 | \$1.79 | \$0.00 | \$32.83 |
| 3 | 60 | \$23.17 | \$9.80 | \$11.34 | \$0.00 | \$44.31 |
| 4 | 65 | \$25.10 | \$9.80 | \$11.34 | \$0.00 | \$46.24 |
| 5 | 70 | \$27.03 | \$9.80 | \$13.13 | \$0.00 | \$49.96 |
| 6 | 75 | \$28.96 | \$9.80 | \$13.13 | \$0.00 | \$51.89 |
| 7 | 80 | \$30.89 | \$9.80 | \$14.92 | \$0.00 | \$55.61 |
| 8 | 85 | \$32.82 | \$9.80 | \$14.92 | \$0.00 | \$57.54 |

Effective Date - 09/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|--------|---------|---------------------------|------------|
| 1 | 50 | \$19.31 | \$9.80 | \$1.79 | \$0.00 | \$30.90 |
| 2 | 55 | \$21.24 | \$9.80 | \$1.79 | \$0.00 | \$32.83 |
| 3 | 60 | \$23.17 | \$9.80 | \$11.34 | \$0.00 | \$44.31 |
| 4 | 65 | \$25.10 | \$9.80 | \$11.34 | \$0.00 | \$46.24 |
| 5 | 70 | \$27.03 | \$9.80 | \$13.13 | \$0.00 | \$49.96 |
| 6 | 75 | \$28.96 | \$9.80 | \$13.13 | \$0.00 | \$51.89 |
| 7 | 80 | \$30.89 | \$9.80 | \$14.92 | \$0.00 | \$55.61 |
| 8 | 85 | \$32.82 | \$9.80 | \$14.92 | \$0.00 | \$57.54 |

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

| | | | | | | |
|---|------------|---------|---------|---------|--------|---------|
| FORK LIFT/CHERRY PICKER <i>OPERATING ENGINEERS LOCAL 4</i> | 06/01/2013 | \$40.34 | \$10.00 | \$13.55 | \$0.00 | \$63.89 |
| | 12/01/2013 | \$41.12 | \$10.00 | \$13.55 | \$0.00 | \$64.67 |
| For apprentice rates see "Apprentice- OPERATING ENGINEERS" | | | | | | |
| GENERATOR/LIGHTING PLANT/HEATERS <i>OPERATING ENGINEERS LOCAL 4</i> | 06/01/2013 | \$28.19 | \$10.00 | \$13.55 | \$0.00 | \$51.74 |
| | 12/01/2013 | \$28.74 | \$10.00 | \$13.55 | \$0.00 | \$52.29 |
| For apprentice rates see "Apprentice- OPERATING ENGINEERS" | | | | | | |
| GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) <i>GLAZIERS LOCAL 35 (ZONE 2)</i> | 01/01/2013 | \$35.51 | \$7.80 | \$14.60 | \$0.00 | \$57.91 |

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - GLAZIER - Local 35 Zone 2

Effective Date - 01/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|--------|---------|---------------------------|------------|
| 1 | 50 | \$17.76 | \$7.80 | \$0.00 | \$0.00 | \$25.56 |
| 2 | 55 | \$19.53 | \$7.80 | \$3.25 | \$0.00 | \$30.58 |
| 3 | 60 | \$21.31 | \$7.80 | \$3.54 | \$0.00 | \$32.65 |
| 4 | 65 | \$23.08 | \$7.80 | \$3.84 | \$0.00 | \$34.72 |
| 5 | 70 | \$24.86 | \$7.80 | \$12.83 | \$0.00 | \$45.49 |
| 6 | 75 | \$26.63 | \$7.80 | \$13.13 | \$0.00 | \$47.56 |
| 7 | 80 | \$28.41 | \$7.80 | \$13.42 | \$0.00 | \$49.63 |
| 8 | 90 | \$31.96 | \$7.80 | \$14.01 | \$0.00 | \$53.77 |

Notes:
Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

| | | | | | | |
|-----------------------------------|------------|---------|---------|---------|--------|---------|
| HOISTING ENGINEER/CRANES/GRADALLS | 06/01/2013 | \$40.34 | \$10.00 | \$13.55 | \$0.00 | \$63.89 |
| OPERATING ENGINEERS LOCAL 4 | 12/01/2013 | \$41.12 | \$10.00 | \$13.55 | \$0.00 | \$64.67 |

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - OPERATING ENGINEERS - Local 4

Effective Date - 06/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|---------|---------|---------------------------|------------|
| 1 | 55 | \$22.19 | \$10.00 | \$0.00 | \$0.00 | \$32.19 |
| 2 | 60 | \$24.20 | \$10.00 | \$13.55 | \$0.00 | \$47.75 |
| 3 | 65 | \$26.22 | \$10.00 | \$13.55 | \$0.00 | \$49.77 |
| 4 | 70 | \$28.24 | \$10.00 | \$13.55 | \$0.00 | \$51.79 |
| 5 | 75 | \$30.26 | \$10.00 | \$13.55 | \$0.00 | \$53.81 |
| 6 | 80 | \$32.27 | \$10.00 | \$13.55 | \$0.00 | \$55.82 |
| 7 | 85 | \$34.29 | \$10.00 | \$13.55 | \$0.00 | \$57.84 |
| 8 | 90 | \$36.31 | \$10.00 | \$13.55 | \$0.00 | \$59.86 |

Effective Date - 12/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|---------|---------|---------------------------|------------|
| 1 | 55 | \$22.62 | \$10.00 | \$0.00 | \$0.00 | \$32.62 |
| 2 | 60 | \$24.67 | \$10.00 | \$13.55 | \$0.00 | \$48.22 |
| 3 | 65 | \$26.73 | \$10.00 | \$13.55 | \$0.00 | \$50.28 |
| 4 | 70 | \$28.78 | \$10.00 | \$13.55 | \$0.00 | \$52.33 |
| 5 | 75 | \$30.84 | \$10.00 | \$13.55 | \$0.00 | \$54.39 |
| 6 | 80 | \$32.90 | \$10.00 | \$13.55 | \$0.00 | \$56.45 |
| 7 | 85 | \$34.95 | \$10.00 | \$13.55 | \$0.00 | \$58.50 |
| 8 | 90 | \$37.01 | \$10.00 | \$13.55 | \$0.00 | \$60.56 |

Notes:

Apprentice to Journeyworker Ratio:1:6

| | | | | | | |
|--|------------|---------|--------|---------|--------|---------|
| HVAC (DUCTWORK) SHEETMETAL WORKERS LOCAL 17 - A | 02/01/2013 | \$42.32 | \$9.82 | \$18.24 | \$2.11 | \$72.49 |
|--|------------|---------|--------|---------|--------|---------|

For apprentice rates see "Apprentice- SHEET METAL WORKER"

| | | | | | | |
|--|------------|---------|---------|---------|--------|---------|
| HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 103 | 03/01/2013 | \$43.52 | \$13.00 | \$14.16 | \$0.00 | \$70.68 |
| | 09/01/2013 | \$44.20 | \$13.00 | \$14.18 | \$0.00 | \$71.38 |
| | 03/01/2014 | \$44.92 | \$13.00 | \$14.20 | \$0.00 | \$72.12 |
| | 09/01/2014 | \$45.60 | \$13.00 | \$14.22 | \$0.00 | \$72.82 |
| | 03/01/2015 | \$46.32 | \$13.00 | \$14.24 | \$0.00 | \$73.56 |
| | 09/01/2015 | \$47.27 | \$13.00 | \$14.27 | \$0.00 | \$74.54 |
| | 03/01/2016 | \$48.23 | \$13.00 | \$14.30 | \$0.00 | \$75.53 |

For apprentice rates see "Apprentice- ELECTRICIAN"

| | | | | | | |
|---|------------|---------|--------|---------|--------|---------|
| HVAC (TESTING AND BALANCING - AIR) SHEETMETAL WORKERS LOCAL 17 - A | 02/01/2013 | \$42.32 | \$9.82 | \$18.24 | \$2.11 | \$72.49 |
|---|------------|---------|--------|---------|--------|---------|

For apprentice rates see "Apprentice- SHEET METAL WORKER"

| | | | | | | |
|--|------------|---------|--------|---------|--------|---------|
| HVAC (TESTING AND BALANCING -WATER) PIPEFITTERS LOCAL 537 | 03/01/2013 | \$49.34 | \$8.75 | \$14.39 | \$0.00 | \$72.48 |
|--|------------|---------|--------|---------|--------|---------|

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

| | | | | | | |
|--|------------|---------|--------|---------|--------|---------|
| HVAC MECHANIC PIPEFITTERS LOCAL 537 | 03/01/2013 | \$49.34 | \$8.75 | \$14.39 | \$0.00 | \$72.48 |
|--|------------|---------|--------|---------|--------|---------|

| Classification | Effective Date | Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|---|----------------|-----------|--------|---------|---------------------------|------------|
| For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER" | | | | | | |
| HYDRAULIC DRILLS LABORERS - ZONE 1 | 06/01/2013 | \$33.80 | \$7.10 | \$12.45 | \$0.00 | \$53.35 |
| | 12/01/2013 | \$34.55 | \$7.10 | \$12.45 | \$0.00 | \$54.10 |
| | 06/01/2014 | \$35.30 | \$7.10 | \$12.45 | \$0.00 | \$54.85 |
| | 12/01/2014 | \$36.05 | \$7.10 | \$12.45 | \$0.00 | \$55.60 |
| | 06/01/2015 | \$36.80 | \$7.10 | \$12.45 | \$0.00 | \$56.35 |
| | 12/01/2015 | \$37.55 | \$7.10 | \$12.45 | \$0.00 | \$57.10 |
| | 06/01/2016 | \$38.30 | \$7.10 | \$12.45 | \$0.00 | \$57.85 |
| | 12/01/2016 | \$39.30 | \$7.10 | \$12.45 | \$0.00 | \$58.85 |

| Classification | Effective Date | Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|---|----------------|-----------|---------|---------|---------------------------|------------|
| For apprentice rates see "Apprentice- LABORER" | | | | | | |
| INSULATOR (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 (BOSTON) | 09/01/2012 | \$41.46 | \$10.65 | \$11.50 | \$0.00 | \$63.61 |
| | 09/01/2013 | \$43.06 | \$10.65 | \$11.50 | \$0.00 | \$65.21 |
| | 09/01/2014 | \$45.06 | \$10.65 | \$11.50 | \$0.00 | \$67.21 |

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

| Effective Date - 09/01/2012 | | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|-----------------------------|---------|----------------------|---------|---------|---------------------------|------------|
| Step | percent | | | | | |
| 1 | 50 | \$20.73 | \$10.65 | \$8.60 | \$0.00 | \$39.98 |
| 2 | 60 | \$24.88 | \$10.65 | \$9.18 | \$0.00 | \$44.71 |
| 3 | 70 | \$29.02 | \$10.65 | \$9.76 | \$0.00 | \$49.43 |
| 4 | 80 | \$33.17 | \$10.65 | \$10.34 | \$0.00 | \$54.16 |

| Effective Date - 09/01/2013 | | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|-----------------------------|---------|----------------------|---------|---------|---------------------------|------------|
| Step | percent | | | | | |
| 1 | 50 | \$21.53 | \$10.65 | \$8.60 | \$0.00 | \$40.78 |
| 2 | 60 | \$25.84 | \$10.65 | \$9.18 | \$0.00 | \$45.67 |
| 3 | 70 | \$30.14 | \$10.65 | \$9.76 | \$0.00 | \$50.55 |
| 4 | 80 | \$34.45 | \$10.65 | \$10.34 | \$0.00 | \$55.44 |

Notes:
Steps are 1 year

Apprentice to Journeyworker Ratio:1:4

| | | | | | | |
|--|------------|---------|--------|---------|--------|---------|
| IRONWORKER/WELDER IRONWORKERS LOCAL 7 (BOSTON AREA) | 03/16/2013 | \$40.23 | \$7.70 | \$18.35 | \$0.00 | \$66.28 |
|--|------------|---------|--------|---------|--------|---------|

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - IRONWORKER - Local 7 Boston

Effective Date - 03/16/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|--------|---------|---------------------------|------------|
| 1 | 60 | \$24.14 | \$7.70 | \$18.35 | \$0.00 | \$50.19 |
| 2 | 70 | \$28.16 | \$7.70 | \$18.35 | \$0.00 | \$54.21 |
| 3 | 75 | \$30.17 | \$7.70 | \$18.35 | \$0.00 | \$56.22 |
| 4 | 80 | \$32.18 | \$7.70 | \$18.35 | \$0.00 | \$58.23 |
| 5 | 85 | \$34.20 | \$7.70 | \$18.35 | \$0.00 | \$60.25 |
| 6 | 90 | \$36.21 | \$7.70 | \$18.35 | \$0.00 | \$62.26 |

Notes:

** Structural 1:6; Ornamental 1:4

Apprentice to Journeyworker Ratio:**

| | | | | | | |
|---|------------|---------|--------|---------|--------|---------|
| JACKHAMMER & PAVING BREAKER OPERATOR LABORERS - ZONE 1 | 06/01/2013 | \$33.30 | \$7.10 | \$12.45 | \$0.00 | \$52.85 |
| | 12/01/2013 | \$34.05 | \$7.10 | \$12.45 | \$0.00 | \$53.60 |
| | 06/01/2014 | \$34.80 | \$7.10 | \$12.45 | \$0.00 | \$54.35 |
| | 12/01/2014 | \$35.55 | \$7.10 | \$12.45 | \$0.00 | \$55.10 |
| | 06/01/2015 | \$36.30 | \$7.10 | \$12.45 | \$0.00 | \$55.85 |
| | 12/01/2015 | \$37.05 | \$7.10 | \$12.45 | \$0.00 | \$56.60 |
| | 06/01/2016 | \$37.80 | \$7.10 | \$12.45 | \$0.00 | \$57.35 |
| | 12/01/2016 | \$38.80 | \$7.10 | \$12.45 | \$0.00 | \$58.35 |

For apprentice rates see "Apprentice- LABORER"

| | | | | | | |
|------------------------------|------------|---------|--------|---------|--------|---------|
| LABORER LABORERS - ZONE 1 | 06/01/2013 | \$33.05 | \$7.10 | \$12.45 | \$0.00 | \$52.60 |
| | 12/01/2013 | \$33.80 | \$7.10 | \$12.45 | \$0.00 | \$53.35 |
| | 06/01/2014 | \$34.55 | \$7.10 | \$12.45 | \$0.00 | \$54.10 |
| | 12/01/2014 | \$35.30 | \$7.10 | \$12.45 | \$0.00 | \$54.85 |
| | 06/01/2015 | \$36.05 | \$7.10 | \$12.45 | \$0.00 | \$55.60 |
| | 12/01/2015 | \$36.80 | \$7.10 | \$12.45 | \$0.00 | \$56.35 |
| | 06/01/2016 | \$37.55 | \$7.10 | \$12.45 | \$0.00 | \$57.10 |
| | 12/01/2016 | \$38.55 | \$7.10 | \$12.45 | \$0.00 | \$58.10 |

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - LABORER - Zone 1

Effective Date - 06/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|--------|---------|---------------------------|------------|
| 1 | 60 | \$19.83 | \$7.10 | \$12.45 | \$0.00 | \$39.38 |
| 2 | 70 | \$23.14 | \$7.10 | \$12.45 | \$0.00 | \$42.69 |
| 3 | 80 | \$26.44 | \$7.10 | \$12.45 | \$0.00 | \$45.99 |
| 4 | 90 | \$29.75 | \$7.10 | \$12.45 | \$0.00 | \$49.30 |

Effective Date - 12/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|--------|---------|---------------------------|------------|
| 1 | 60 | \$20.28 | \$7.10 | \$12.45 | \$0.00 | \$39.83 |
| 2 | 70 | \$23.66 | \$7.10 | \$12.45 | \$0.00 | \$43.21 |
| 3 | 80 | \$27.04 | \$7.10 | \$12.45 | \$0.00 | \$46.59 |
| 4 | 90 | \$30.42 | \$7.10 | \$12.45 | \$0.00 | \$49.97 |

Notes:

Apprentice to Journeyworker Ratio:1:5

| | | | | | | |
|---|------------|---------|--------|---------|--------|---------|
| LABORER: CARPENTER TENDER <i>LABORERS - ZONE 1</i> | 06/01/2013 | \$33.05 | \$7.10 | \$12.45 | \$0.00 | \$52.60 |
| | 12/01/2013 | \$33.80 | \$7.10 | \$12.45 | \$0.00 | \$53.35 |
| | 06/01/2014 | \$34.55 | \$7.10 | \$12.45 | \$0.00 | \$54.10 |
| | 12/01/2014 | \$35.30 | \$7.10 | \$12.45 | \$0.00 | \$54.85 |
| | 06/01/2015 | \$36.05 | \$7.10 | \$12.45 | \$0.00 | \$55.60 |
| | 12/01/2015 | \$36.80 | \$7.10 | \$12.45 | \$0.00 | \$56.35 |
| | 06/01/2016 | \$37.55 | \$7.10 | \$12.45 | \$0.00 | \$57.10 |
| | 12/01/2016 | \$38.55 | \$7.10 | \$12.45 | \$0.00 | \$58.10 |

For apprentice rates see "Apprentice- LABORER"

| | | | | | | |
|---|------------|---------|--------|---------|--------|---------|
| LABORER: CEMENT FINISHER TENDER <i>LABORERS - ZONE 1</i> | 06/01/2013 | \$33.05 | \$7.10 | \$12.45 | \$0.00 | \$52.60 |
| | 12/01/2013 | \$33.80 | \$7.10 | \$12.45 | \$0.00 | \$53.35 |
| | 06/01/2014 | \$34.55 | \$7.10 | \$12.45 | \$0.00 | \$54.10 |
| | 12/01/2014 | \$35.30 | \$7.10 | \$12.45 | \$0.00 | \$54.85 |
| | 06/01/2015 | \$36.05 | \$7.10 | \$12.45 | \$0.00 | \$55.60 |
| | 12/01/2015 | \$36.80 | \$7.10 | \$12.45 | \$0.00 | \$56.35 |
| | 06/01/2016 | \$37.55 | \$7.10 | \$12.45 | \$0.00 | \$57.10 |
| | 12/01/2016 | \$38.55 | \$7.10 | \$12.45 | \$0.00 | \$58.10 |

For apprentice rates see "Apprentice- LABORER"

| | | | | | | |
|---|------------|---------|--------|---------|--------|---------|
| LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER <i>LABORERS - ZONE 1</i> | 12/01/2011 | \$31.80 | \$7.10 | \$12.45 | \$0.00 | \$51.35 |
|---|------------|---------|--------|---------|--------|---------|

For apprentice rates see "Apprentice- LABORER"

| Classification | Effective Date | Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|--|----------------|-----------|---------|---------|---------------------------|------------|
| LABORER: MASON TENDER <i>LABORERS - ZONE 1</i> | 06/01/2013 | \$33.30 | \$7.10 | \$12.45 | \$0.00 | \$52.85 |
| | 12/01/2013 | \$34.05 | \$7.10 | \$12.45 | \$0.00 | \$53.60 |
| | 06/01/2014 | \$34.80 | \$7.10 | \$12.45 | \$0.00 | \$54.35 |
| | 12/01/2014 | \$35.55 | \$7.10 | \$12.45 | \$0.00 | \$55.10 |
| | 06/01/2015 | \$36.30 | \$7.10 | \$12.45 | \$0.00 | \$55.85 |
| | 12/01/2015 | \$37.05 | \$7.10 | \$12.45 | \$0.00 | \$56.60 |
| | 06/01/2016 | \$37.80 | \$7.10 | \$12.45 | \$0.00 | \$57.35 |
| | 12/01/2016 | \$38.80 | \$7.10 | \$12.45 | \$0.00 | \$58.35 |
| For apprentice rates see "Apprentice- LABORER" | | | | | | |
| LABORER: MULTI-TRADE TENDER <i>LABORERS - ZONE 1</i> | 06/01/2013 | \$33.05 | \$7.10 | \$12.45 | \$0.00 | \$52.60 |
| | 12/01/2013 | \$33.80 | \$7.10 | \$12.45 | \$0.00 | \$53.35 |
| | 06/01/2014 | \$34.55 | \$7.10 | \$12.45 | \$0.00 | \$54.10 |
| | 12/01/2014 | \$35.30 | \$7.10 | \$12.45 | \$0.00 | \$54.85 |
| | 06/01/2015 | \$36.05 | \$7.10 | \$12.45 | \$0.00 | \$55.60 |
| | 12/01/2015 | \$36.80 | \$7.10 | \$12.45 | \$0.00 | \$56.35 |
| | 06/01/2016 | \$37.55 | \$7.10 | \$12.45 | \$0.00 | \$57.10 |
| | 12/01/2016 | \$38.55 | \$7.10 | \$12.45 | \$0.00 | \$58.10 |
| For apprentice rates see "Apprentice- LABORER" | | | | | | |
| LABORER: TREE REMOVER <i>LABORERS - ZONE 1</i> | 06/01/2013 | \$33.05 | \$7.10 | \$12.45 | \$0.00 | \$52.60 |
| | 12/01/2013 | \$33.80 | \$7.10 | \$12.45 | \$0.00 | \$53.35 |
| | 06/01/2014 | \$34.55 | \$7.10 | \$12.45 | \$0.00 | \$54.10 |
| | 12/01/2014 | \$35.30 | \$7.10 | \$12.45 | \$0.00 | \$54.85 |
| | 06/01/2015 | \$36.05 | \$7.10 | \$12.45 | \$0.00 | \$55.60 |
| | 12/01/2015 | \$36.80 | \$7.10 | \$12.45 | \$0.00 | \$56.35 |
| | 06/01/2016 | \$37.55 | \$7.10 | \$12.45 | \$0.00 | \$57.10 |
| | 12/01/2016 | \$38.55 | \$7.10 | \$12.45 | \$0.00 | \$58.10 |
| This classification applies to the wholesale removal of standing trees including all associated trimming of branches and limbs, and applies to the removal of branches at locations not on or around utility lines. For apprentice rates see "Apprentice- LABORER" | | | | | | |
| LASER BEAM OPERATOR <i>LABORERS - ZONE 1</i> | 06/01/2013 | \$33.30 | \$7.10 | \$12.45 | \$0.00 | \$52.85 |
| | 12/01/2013 | \$34.05 | \$7.10 | \$12.45 | \$0.00 | \$53.60 |
| | 06/01/2014 | \$34.80 | \$7.10 | \$12.45 | \$0.00 | \$54.35 |
| | 12/01/2014 | \$35.55 | \$7.10 | \$12.45 | \$0.00 | \$55.10 |
| | 06/01/2015 | \$36.30 | \$7.10 | \$12.45 | \$0.00 | \$55.85 |
| | 12/01/2015 | \$37.05 | \$7.10 | \$12.45 | \$0.00 | \$56.60 |
| | 06/01/2016 | \$37.80 | \$7.10 | \$12.45 | \$0.00 | \$57.35 |
| | 12/01/2016 | \$38.80 | \$7.10 | \$12.45 | \$0.00 | \$58.35 |
| For apprentice rates see "Apprentice- LABORER" | | | | | | |
| MARBLE & TILE FINISHERS <i>BRICKLAYERS LOCAL 3 - MARBLE & TILE</i> | 02/01/2013 | \$36.20 | \$10.18 | \$16.51 | \$0.00 | \$62.89 |
| | 08/01/2013 | \$36.91 | \$10.18 | \$16.58 | \$0.00 | \$63.67 |
| | 02/01/2014 | \$37.36 | \$10.18 | \$16.58 | \$0.00 | \$64.12 |
| | 08/01/2014 | \$38.07 | \$10.18 | \$16.65 | \$0.00 | \$64.90 |
| | 02/01/2015 | \$38.52 | \$10.18 | \$16.65 | \$0.00 | \$65.35 |
| | 08/01/2015 | \$39.23 | \$10.18 | \$16.72 | \$0.00 | \$66.13 |
| | 02/01/2016 | \$39.68 | \$10.18 | \$16.72 | \$0.00 | \$66.58 |
| | 08/01/2016 | \$40.38 | \$10.18 | \$16.80 | \$0.00 | \$67.36 |
| 02/01/2017 | \$40.84 | \$10.18 | \$16.80 | \$0.00 | \$67.82 | |

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

Effective Date - 02/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|---------|---------|---------------------------|------------|
| 1 | 50 | \$18.10 | \$10.18 | \$16.51 | \$0.00 | \$44.79 |
| 2 | 60 | \$21.72 | \$10.18 | \$16.51 | \$0.00 | \$48.41 |
| 3 | 70 | \$25.34 | \$10.18 | \$16.51 | \$0.00 | \$52.03 |
| 4 | 80 | \$28.96 | \$10.18 | \$16.51 | \$0.00 | \$55.65 |
| 5 | 90 | \$32.58 | \$10.18 | \$16.51 | \$0.00 | \$59.27 |

Effective Date - 08/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|---------|---------|---------------------------|------------|
| 1 | 50 | \$18.46 | \$10.18 | \$16.58 | \$0.00 | \$45.22 |
| 2 | 60 | \$22.15 | \$10.18 | \$16.58 | \$0.00 | \$48.91 |
| 3 | 70 | \$25.84 | \$10.18 | \$16.58 | \$0.00 | \$52.60 |
| 4 | 80 | \$29.53 | \$10.18 | \$16.58 | \$0.00 | \$56.29 |
| 5 | 90 | \$33.22 | \$10.18 | \$16.58 | \$0.00 | \$59.98 |

Notes:

Apprentice to Journeyworker Ratio:1:3

| | | | | | | |
|---|------------|---------|---------|---------|--------|---------|
| MARBLE MASONS, TILELAYERS & TERRAZZO MECH | 02/01/2013 | \$47.45 | \$10.18 | \$17.83 | \$0.00 | \$75.46 |
| BRICKLAYERS LOCAL 3 - MARBLE & TILE | 08/01/2013 | \$48.35 | \$10.18 | \$17.90 | \$0.00 | \$76.43 |
| | 02/01/2014 | \$48.91 | \$10.18 | \$17.90 | \$0.00 | \$76.99 |
| | 08/01/2014 | \$49.81 | \$10.18 | \$17.97 | \$0.00 | \$77.96 |
| | 02/01/2015 | \$50.37 | \$10.18 | \$17.97 | \$0.00 | \$78.52 |
| | 08/01/2015 | \$51.27 | \$10.18 | \$18.04 | \$0.00 | \$79.49 |
| | 02/01/2016 | \$51.84 | \$10.18 | \$18.04 | \$0.00 | \$80.06 |
| | 08/01/2016 | \$52.74 | \$10.18 | \$18.12 | \$0.00 | \$81.04 |
| | 02/01/2017 | \$53.31 | \$10.18 | \$18.12 | \$0.00 | \$81.61 |

Apprentice - MARBLE-TILE-TERRAZZO MECHANIC - Local 3 Marble & Tile

Effective Date - 02/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|---------|---------|---------------------------|------------|
| 1 | 50 | \$23.73 | \$10.18 | \$17.83 | \$0.00 | \$51.74 |
| 2 | 60 | \$28.47 | \$10.18 | \$17.83 | \$0.00 | \$56.48 |
| 3 | 70 | \$33.22 | \$10.18 | \$17.83 | \$0.00 | \$61.23 |
| 4 | 80 | \$37.96 | \$10.18 | \$17.83 | \$0.00 | \$65.97 |
| 5 | 90 | \$42.71 | \$10.18 | \$17.83 | \$0.00 | \$70.72 |

Effective Date - 08/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|---------|---------|---------------------------|------------|
| 1 | 50 | \$24.18 | \$10.18 | \$17.90 | \$0.00 | \$52.26 |
| 2 | 60 | \$29.01 | \$10.18 | \$17.90 | \$0.00 | \$57.09 |
| 3 | 70 | \$33.85 | \$10.18 | \$17.90 | \$0.00 | \$61.93 |
| 4 | 80 | \$38.68 | \$10.18 | \$17.90 | \$0.00 | \$66.76 |
| 5 | 90 | \$43.52 | \$10.18 | \$17.90 | \$0.00 | \$71.60 |

Notes:

Apprentice to Journeyworker Ratio:1:5

| | | | | | | |
|--|------------|---------|---------|---------|--------|---------|
| MECH. SWEEPER OPERATOR (ON CONST. SITES) <i>OPERATING ENGINEERS LOCAL 4</i> | 06/01/2013 | \$39.96 | \$10.00 | \$13.55 | \$0.00 | \$63.51 |
| For apprentice rates see "Apprentice- OPERATING ENGINEERS" | 12/01/2013 | \$40.74 | \$10.00 | \$13.55 | \$0.00 | \$64.29 |
| MECHANICS MAINTENANCE <i>OPERATING ENGINEERS LOCAL 4</i> | 06/01/2013 | \$39.96 | \$10.00 | \$13.55 | \$0.00 | \$63.51 |
| For apprentice rates see "Apprentice- OPERATING ENGINEERS" | 12/01/2013 | \$40.74 | \$10.00 | \$13.55 | \$0.00 | \$64.29 |
| MILLWRIGHT (Zone 1) <i>MILLWRIGHTS LOCAL 1121 - Zone 1</i> | 04/01/2013 | \$34.68 | \$9.80 | \$15.76 | \$0.00 | \$60.24 |
| | 10/01/2013 | \$35.45 | \$9.80 | \$15.76 | \$0.00 | \$61.01 |
| | 04/01/2014 | \$36.23 | \$9.80 | \$15.76 | \$0.00 | \$61.79 |
| | 10/01/2014 | \$37.18 | \$9.80 | \$15.76 | \$0.00 | \$62.74 |
| | 04/01/2015 | \$38.14 | \$9.80 | \$15.76 | \$0.00 | \$63.70 |

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - MILLWRIGHT - Local 1121 Zone 1

Effective Date - 04/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|--------|---------|---------------------------|------------|
| 1 | 55 | \$19.07 | \$9.80 | \$4.32 | \$0.00 | \$33.19 |
| 2 | 65 | \$22.54 | \$9.80 | \$13.01 | \$0.00 | \$45.35 |
| 3 | 75 | \$26.01 | \$9.80 | \$13.80 | \$0.00 | \$49.61 |
| 4 | 85 | \$29.48 | \$9.80 | \$14.58 | \$0.00 | \$53.86 |

Effective Date - 10/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|--------|---------|---------------------------|------------|
| 1 | 55 | \$19.50 | \$9.80 | \$4.32 | \$0.00 | \$33.62 |
| 2 | 65 | \$23.04 | \$9.80 | \$13.01 | \$0.00 | \$45.85 |
| 3 | 75 | \$26.59 | \$9.80 | \$13.80 | \$0.00 | \$50.19 |
| 4 | 85 | \$30.13 | \$9.80 | \$14.58 | \$0.00 | \$54.51 |

Notes:

Steps are 2,000 hours

Apprentice to Journeyworker Ratio:1:5

| | | | | | | |
|---|------------|---------|---------|---------|--------|---------|
| MORTAR MIXER LABORERS - ZONE 1 | 06/01/2013 | \$33.30 | \$7.10 | \$12.45 | \$0.00 | \$52.85 |
| | 12/01/2013 | \$34.05 | \$7.10 | \$12.45 | \$0.00 | \$53.60 |
| | 06/01/2014 | \$34.80 | \$7.10 | \$12.45 | \$0.00 | \$54.35 |
| | 12/01/2014 | \$35.55 | \$7.10 | \$12.45 | \$0.00 | \$55.10 |
| | 06/01/2015 | \$36.30 | \$7.10 | \$12.45 | \$0.00 | \$55.85 |
| | 12/01/2015 | \$37.05 | \$7.10 | \$12.45 | \$0.00 | \$56.60 |
| | 06/01/2016 | \$37.80 | \$7.10 | \$12.45 | \$0.00 | \$57.35 |
| | 12/01/2016 | \$38.80 | \$7.10 | \$12.45 | \$0.00 | \$58.35 |
| For apprentice rates see "Apprentice- LABORER" | | | | | | |
| OILER (OTHER THAN TRUCK CRANES,GRADALLS) OPERATING ENGINEERS LOCAL 4 | 06/01/2013 | \$21.17 | \$10.00 | \$13.55 | \$0.00 | \$44.72 |
| | 12/01/2013 | \$21.59 | \$10.00 | \$13.55 | \$0.00 | \$45.14 |
| For apprentice rates see "Apprentice- OPERATING ENGINEERS" | | | | | | |
| OILER (TRUCK CRANES, GRADALLS) OPERATING ENGINEERS LOCAL 4 | 06/01/2013 | \$24.57 | \$10.00 | \$13.55 | \$0.00 | \$48.12 |
| | 12/01/2013 | \$25.06 | \$10.00 | \$13.55 | \$0.00 | \$48.61 |
| For apprentice rates see "Apprentice- OPERATING ENGINEERS" | | | | | | |
| OTHER POWER DRIVEN EQUIPMENT - CLASS II OPERATING ENGINEERS LOCAL 4 | 06/01/2013 | \$39.96 | \$10.00 | \$13.55 | \$0.00 | \$63.51 |
| | 12/01/2013 | \$40.74 | \$10.00 | \$13.55 | \$0.00 | \$64.29 |
| For apprentice rates see "Apprentice- OPERATING ENGINEERS" | | | | | | |
| PAINTER (BRIDGES/TANKS) PAINTERS LOCAL 35 - ZONE 2 | 01/01/2013 | \$45.01 | \$7.80 | \$15.60 | \$0.00 | \$68.41 |

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

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

Effective Date - 01/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|--------|---------|---------------------------|------------|
| 1 | 50 | \$16.99 | \$7.80 | \$0.00 | \$0.00 | \$24.79 |
| 2 | 55 | \$18.68 | \$7.80 | \$3.52 | \$0.00 | \$30.00 |
| 3 | 60 | \$20.38 | \$7.80 | \$3.84 | \$0.00 | \$32.02 |
| 4 | 65 | \$22.08 | \$7.80 | \$4.16 | \$0.00 | \$34.04 |
| 5 | 70 | \$23.78 | \$7.80 | \$13.68 | \$0.00 | \$45.26 |
| 6 | 75 | \$25.48 | \$7.80 | \$14.00 | \$0.00 | \$47.28 |
| 7 | 80 | \$27.18 | \$7.80 | \$14.32 | \$0.00 | \$49.30 |
| 8 | 90 | \$30.57 | \$7.80 | \$14.96 | \$0.00 | \$53.33 |

Notes:

Apprentice to Journeyworker Ratio:1:1

| | | | | | | |
|---|------------|---------|--------|---------|--------|---------|
| PAINTER (TRAFFIC MARKINGS) LABORERS - ZONE 1 | 06/01/2013 | \$33.05 | \$7.10 | \$12.45 | \$0.00 | \$52.60 |
| | 12/01/2013 | \$33.80 | \$7.10 | \$12.45 | \$0.00 | \$53.35 |
| | 06/01/2014 | \$34.55 | \$7.10 | \$12.45 | \$0.00 | \$54.10 |
| | 12/01/2014 | \$35.30 | \$7.10 | \$12.45 | \$0.00 | \$54.85 |
| | 06/01/2015 | \$36.05 | \$7.10 | \$12.45 | \$0.00 | \$55.60 |
| | 12/01/2015 | \$36.80 | \$7.10 | \$12.45 | \$0.00 | \$56.35 |
| | 06/01/2016 | \$37.55 | \$7.10 | \$12.45 | \$0.00 | \$57.10 |
| | 12/01/2016 | \$38.55 | \$7.10 | \$12.45 | \$0.00 | \$58.10 |

For Apprentice rates see "Apprentice- LABORER"

| | | | | | | |
|--------------------------------|------------|---------|--------|---------|--------|---------|
| PAINTER / TAPER (BRUSH, NEW) * | 01/01/2013 | \$34.51 | \$7.80 | \$15.60 | \$0.00 | \$57.91 |
|--------------------------------|------------|---------|--------|---------|--------|---------|

* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 - ZONE 2

Apprentice - PAINTER - Local 35 Zone 2 - BRUSH NEW

Effective Date - 01/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|--------|---------|---------------------------|------------|
| 1 | 50 | \$17.26 | \$7.80 | \$0.00 | \$0.00 | \$25.06 |
| 2 | 55 | \$18.98 | \$7.80 | \$3.52 | \$0.00 | \$30.30 |
| 3 | 60 | \$20.71 | \$7.80 | \$3.84 | \$0.00 | \$32.35 |
| 4 | 65 | \$22.43 | \$7.80 | \$4.16 | \$0.00 | \$34.39 |
| 5 | 70 | \$24.16 | \$7.80 | \$13.68 | \$0.00 | \$45.64 |
| 6 | 75 | \$25.88 | \$7.80 | \$14.00 | \$0.00 | \$47.68 |
| 7 | 80 | \$27.61 | \$7.80 | \$14.32 | \$0.00 | \$49.73 |
| 8 | 90 | \$31.06 | \$7.80 | \$14.96 | \$0.00 | \$53.82 |

Notes:
Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

| Classification | Effective Date | Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|---|----------------|-----------|--------|---------|---------------------------|------------|
| Painter / Taper (BRUSH, REPAINT) <i>PAINTERS LOCAL 35 - ZONE 2</i> | 01/01/2013 | \$32.57 | \$7.80 | \$15.60 | \$0.00 | \$55.97 |

Apprentice - PAINTER Local 35 Zone 2 - BRUSH REPAINT

Effective Date - 01/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|--------|---------|---------------------------|------------|
| 1 | 50 | \$16.29 | \$7.80 | \$0.00 | \$0.00 | \$24.09 |
| 2 | 55 | \$17.91 | \$7.80 | \$3.52 | \$0.00 | \$29.23 |
| 3 | 60 | \$19.54 | \$7.80 | \$3.84 | \$0.00 | \$31.18 |
| 4 | 65 | \$21.17 | \$7.80 | \$4.16 | \$0.00 | \$33.13 |
| 5 | 70 | \$22.80 | \$7.80 | \$13.68 | \$0.00 | \$44.28 |
| 6 | 75 | \$24.43 | \$7.80 | \$14.00 | \$0.00 | \$46.23 |
| 7 | 80 | \$26.06 | \$7.80 | \$14.32 | \$0.00 | \$48.18 |
| 8 | 90 | \$29.31 | \$7.80 | \$14.96 | \$0.00 | \$52.07 |

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

| | | | | | | |
|---|------------|---------|--------|---------|--------|---------|
| PANEL & PICKUP TRUCKS DRIVER <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE A</i> | 12/01/2012 | \$31.38 | \$8.91 | \$8.00 | \$0.00 | \$48.29 |
| PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK) <i>PILE DRIVER LOCAL 56 (ZONE 1)</i> | 08/01/2012 | \$39.20 | \$9.80 | \$17.67 | \$0.00 | \$66.67 |
| | 08/01/2013 | \$40.70 | \$9.80 | \$17.67 | \$0.00 | \$68.17 |
| | 08/01/2014 | \$42.20 | \$9.80 | \$17.67 | \$0.00 | \$69.67 |
| | 08/01/2015 | \$43.70 | \$9.80 | \$17.67 | \$0.00 | \$71.17 |
| PILE DRIVER <i>PILE DRIVER LOCAL 56 (ZONE 1)</i> | 08/01/2012 | \$39.20 | \$9.80 | \$17.67 | \$0.00 | \$66.67 |
| | 08/01/2013 | \$40.70 | \$9.80 | \$17.67 | \$0.00 | \$68.17 |
| | 08/01/2014 | \$42.20 | \$9.80 | \$17.67 | \$0.00 | \$69.67 |
| | 08/01/2015 | \$43.70 | \$9.80 | \$17.67 | \$0.00 | \$71.17 |

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PILE DRIVER - Local 56 Zone 1

Effective Date - 08/01/2012

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|--------|---------|---------------------------|------------|
| 1 | 50 | \$19.60 | \$9.80 | \$17.67 | \$0.00 | \$47.07 |
| 2 | 60 | \$23.52 | \$9.80 | \$17.67 | \$0.00 | \$50.99 |
| 3 | 70 | \$27.44 | \$9.80 | \$17.67 | \$0.00 | \$54.91 |
| 4 | 75 | \$29.40 | \$9.80 | \$17.67 | \$0.00 | \$56.87 |
| 5 | 80 | \$31.36 | \$9.80 | \$17.67 | \$0.00 | \$58.83 |
| 6 | 80 | \$31.36 | \$9.80 | \$17.67 | \$0.00 | \$58.83 |
| 7 | 90 | \$35.28 | \$9.80 | \$17.67 | \$0.00 | \$62.75 |
| 8 | 90 | \$35.28 | \$9.80 | \$17.67 | \$0.00 | \$62.75 |

Effective Date - 08/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|--------|---------|---------------------------|------------|
| 1 | 50 | \$20.35 | \$9.80 | \$17.67 | \$0.00 | \$47.82 |
| 2 | 60 | \$24.42 | \$9.80 | \$17.67 | \$0.00 | \$51.89 |
| 3 | 70 | \$28.49 | \$9.80 | \$17.67 | \$0.00 | \$55.96 |
| 4 | 75 | \$30.53 | \$9.80 | \$17.67 | \$0.00 | \$58.00 |
| 5 | 80 | \$32.56 | \$9.80 | \$17.67 | \$0.00 | \$60.03 |
| 6 | 80 | \$32.56 | \$9.80 | \$17.67 | \$0.00 | \$60.03 |
| 7 | 90 | \$36.63 | \$9.80 | \$17.67 | \$0.00 | \$64.10 |
| 8 | 90 | \$36.63 | \$9.80 | \$17.67 | \$0.00 | \$64.10 |

Notes:

Apprentice to Journeyworker Ratio:1:3

| | | | | | | |
|---|------------|---------|--------|---------|--------|---------|
| PIPEFITTER & STEAMFITTER PIPEFITTERS LOCAL 537 | 03/01/2013 | \$49.34 | \$8.75 | \$14.39 | \$0.00 | \$72.48 |
|---|------------|---------|--------|---------|--------|---------|

Apprentice - PIPEFITTER - Local 537

Effective Date - 03/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|--------|---------|---------------------------|------------|
| 1 | 40 | \$19.74 | \$8.75 | \$6.50 | \$0.00 | \$34.99 |
| 2 | 45 | \$22.20 | \$8.75 | \$14.39 | \$0.00 | \$45.34 |
| 3 | 60 | \$29.60 | \$8.75 | \$14.39 | \$0.00 | \$52.74 |
| 4 | 70 | \$34.54 | \$8.75 | \$14.39 | \$0.00 | \$57.68 |
| 5 | 80 | \$39.47 | \$8.75 | \$14.39 | \$0.00 | \$62.61 |

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

Apprentice to Journeyworker Ratio:**

| Classification | Effective Date | Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|---------------------------------------|----------------|-----------|--------|---------|---------------------------|------------|
| PIPELAYER <i>LABORERS - ZONE 1</i> | 06/01/2013 | \$33.30 | \$7.10 | \$12.45 | \$0.00 | \$52.85 |
| | 12/01/2013 | \$34.05 | \$7.10 | \$12.45 | \$0.00 | \$53.60 |
| | 06/01/2014 | \$34.80 | \$7.10 | \$12.45 | \$0.00 | \$54.35 |
| | 12/01/2014 | \$35.55 | \$7.10 | \$12.45 | \$0.00 | \$55.10 |
| | 06/01/2015 | \$36.30 | \$7.10 | \$12.45 | \$0.00 | \$55.85 |
| | 12/01/2015 | \$37.05 | \$7.10 | \$12.45 | \$0.00 | \$56.60 |
| | 06/01/2016 | \$37.80 | \$7.10 | \$12.45 | \$0.00 | \$57.35 |
| | 12/01/2016 | \$38.80 | \$7.10 | \$12.45 | \$0.00 | \$58.35 |

For apprentice rates see "Apprentice- LABORER"

| | | | | | | |
|--|------------|---------|--------|---------|--------|---------|
| PLUMBERS & GASFITTERS <i>PLUMBERS & GASFITTERS LOCAL 12</i> | 03/01/2013 | \$49.31 | \$9.32 | \$13.29 | \$0.00 | \$71.92 |
|--|------------|---------|--------|---------|--------|---------|

Apprentice - PLUMBER/GASFITTER - Local 12

Effective Date - 03/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|--------|---------|---------------------------|------------|
| 1 | 35 | \$17.26 | \$9.32 | \$4.97 | \$0.00 | \$31.55 |
| 2 | 40 | \$19.72 | \$9.32 | \$5.61 | \$0.00 | \$34.65 |
| 3 | 55 | \$27.12 | \$9.32 | \$7.53 | \$0.00 | \$43.97 |
| 4 | 65 | \$32.05 | \$9.32 | \$8.81 | \$0.00 | \$50.18 |
| 5 | 75 | \$36.98 | \$9.32 | \$10.09 | \$0.00 | \$56.39 |

Notes:

** 1:2; 2:6; 3:10; 4:14; 5:19/Steps are 1 yr
Step4 with lic\$53.29 Step5 with lic\$59.49

Apprentice to Journeyworker Ratio:**

| | | | | | | |
|--|------------|---------|--------|---------|--------|---------|
| PNEUMATIC CONTROLS (TEMP.) <i>PIPEFITTERS LOCAL 537</i> | 03/01/2013 | \$49.34 | \$8.75 | \$14.39 | \$0.00 | \$72.48 |
|--|------------|---------|--------|---------|--------|---------|

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

| | | | | | | |
|---|------------|---------|--------|---------|--------|---------|
| PNEUMATIC DRILL/TOOL OPERATOR <i>LABORERS - ZONE 1</i> | 06/01/2013 | \$33.30 | \$7.10 | \$12.45 | \$0.00 | \$52.85 |
| | 12/01/2013 | \$34.05 | \$7.10 | \$12.45 | \$0.00 | \$53.60 |
| | 06/01/2014 | \$34.80 | \$7.10 | \$12.45 | \$0.00 | \$54.35 |
| | 12/01/2014 | \$35.55 | \$7.10 | \$12.45 | \$0.00 | \$55.10 |
| | 06/01/2015 | \$36.30 | \$7.10 | \$12.45 | \$0.00 | \$55.85 |
| | 12/01/2015 | \$37.05 | \$7.10 | \$12.45 | \$0.00 | \$56.60 |
| | 06/01/2016 | \$37.80 | \$7.10 | \$12.45 | \$0.00 | \$57.35 |
| | 12/01/2016 | \$38.80 | \$7.10 | \$12.45 | \$0.00 | \$58.35 |

For apprentice rates see "Apprentice- LABORER"

| | | | | | | |
|---|------------|---------|--------|---------|--------|---------|
| POWDERMAN & BLASTER <i>LABORERS - ZONE 1</i> | 06/01/2013 | \$34.05 | \$7.10 | \$12.45 | \$0.00 | \$53.60 |
| | 12/01/2013 | \$34.80 | \$7.10 | \$12.45 | \$0.00 | \$54.35 |
| | 06/01/2014 | \$35.55 | \$7.10 | \$12.45 | \$0.00 | \$55.10 |
| | 12/01/2014 | \$36.30 | \$7.10 | \$12.45 | \$0.00 | \$55.85 |
| | 06/01/2015 | \$37.05 | \$7.10 | \$12.45 | \$0.00 | \$56.60 |
| | 12/01/2015 | \$37.80 | \$7.10 | \$12.45 | \$0.00 | \$57.35 |
| | 06/01/2016 | \$38.55 | \$7.10 | \$12.45 | \$0.00 | \$58.10 |
| | 12/01/2016 | \$39.55 | \$7.10 | \$12.45 | \$0.00 | \$59.10 |

For apprentice rates see "Apprentice- LABORER"

| Classification | Effective Date | Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|---|----------------|-----------|---------|---------|---------------------------|------------|
| POWER SHOVEL/DERRICK/TRENCHING MACHINE <i>OPERATING ENGINEERS LOCAL 4</i> | 06/01/2013 | \$40.34 | \$10.00 | \$13.55 | \$0.00 | \$63.89 |
| | 12/01/2013 | \$41.12 | \$10.00 | \$13.55 | \$0.00 | \$64.67 |
| For apprentice rates see "Apprentice- OPERATING ENGINEERS" | | | | | | |
| PUMP OPERATOR (CONCRETE) <i>OPERATING ENGINEERS LOCAL 4</i> | 06/01/2013 | \$40.34 | \$10.00 | \$13.55 | \$0.00 | \$63.89 |
| | 12/01/2013 | \$41.12 | \$10.00 | \$13.55 | \$0.00 | \$64.67 |
| For apprentice rates see "Apprentice- OPERATING ENGINEERS" | | | | | | |
| PUMP OPERATOR (DEWATERING, OTHER) <i>OPERATING ENGINEERS LOCAL 4</i> | 06/01/2013 | \$28.19 | \$10.00 | \$13.55 | \$0.00 | \$51.74 |
| | 12/01/2013 | \$28.74 | \$10.00 | \$13.55 | \$0.00 | \$52.29 |
| For apprentice rates see "Apprentice- OPERATING ENGINEERS" | | | | | | |
| READY-MIX CONCRETE DRIVER <i>TEAMSTERS LOCAL 25b</i> | 05/01/2011 | \$28.03 | \$7.75 | \$5.91 | \$0.00 | \$41.69 |
| RECLAIMERS <i>OPERATING ENGINEERS LOCAL 4</i> | 06/01/2013 | \$39.96 | \$10.00 | \$13.55 | \$0.00 | \$63.51 |
| | 12/01/2013 | \$40.74 | \$10.00 | \$13.55 | \$0.00 | \$64.29 |
| For apprentice rates see "Apprentice- OPERATING ENGINEERS" | | | | | | |
| RESIDENTIAL WOOD FRAME (All Other Work) <i>CARPENTERS -ZONE 2 (Residential Wood)</i> | 04/01/2011 | \$24.24 | \$8.67 | \$15.51 | \$0.00 | \$48.42 |
| RESIDENTIAL WOOD FRAME CARPENTER ** ** The Residential Wood Frame Carpenter classification applies only to the construction of new, wood frame residences that do not exceed four stories including the basement. <i>CARPENTERS -ZONE 2 (Residential Wood)</i> | 05/01/2011 | \$24.24 | \$6.34 | \$6.23 | \$0.00 | \$36.81 |
| As of 9/1/09 Carpentry work on wood-frame residential WEATHERIZATION projects shall be paid the RESIDENTIAL WOOD FRAME CARPENTER rate. | | | | | | |
| RIDE-ON MOTORIZED BUGGY OPERATOR <i>LABORERS - ZONE 1</i> | 06/01/2013 | \$33.30 | \$7.10 | \$12.45 | \$0.00 | \$52.85 |
| | 12/01/2013 | \$34.05 | \$7.10 | \$12.45 | \$0.00 | \$53.60 |
| | 06/01/2014 | \$34.80 | \$7.10 | \$12.45 | \$0.00 | \$54.35 |
| | 12/01/2014 | \$35.55 | \$7.10 | \$12.45 | \$0.00 | \$55.10 |
| | 06/01/2015 | \$36.30 | \$7.10 | \$12.45 | \$0.00 | \$55.85 |
| | 12/01/2015 | \$37.05 | \$7.10 | \$12.45 | \$0.00 | \$56.60 |
| | 06/01/2016 | \$37.80 | \$7.10 | \$12.45 | \$0.00 | \$57.35 |
| | 12/01/2016 | \$38.80 | \$7.10 | \$12.45 | \$0.00 | \$58.35 |
| For apprentice rates see "Apprentice- LABORER" | | | | | | |
| ROLLER/SPREADER/MULCHING MACHINE <i>OPERATING ENGINEERS LOCAL 4</i> | 06/01/2013 | \$39.96 | \$10.00 | \$13.55 | \$0.00 | \$63.51 |
| | 12/01/2013 | \$40.74 | \$10.00 | \$13.55 | \$0.00 | \$64.29 |
| For apprentice rates see "Apprentice- OPERATING ENGINEERS" | | | | | | |
| ROOFER (Inc.Roofing Waterproofing &Roofing Damproofing) <i>ROOFERS LOCAL 33</i> | 02/01/2013 | \$37.41 | \$10.50 | \$10.70 | \$0.00 | \$58.61 |

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

Apprentice - ROOFER - Local 33

Effective Date - 02/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|---------|---------|---------------------------|------------|
| 1 | 50 | \$18.71 | \$10.50 | \$3.38 | \$0.00 | \$32.59 |
| 2 | 60 | \$22.45 | \$10.50 | \$10.70 | \$0.00 | \$43.65 |
| 3 | 65 | \$24.32 | \$10.50 | \$10.70 | \$0.00 | \$45.52 |
| 4 | 75 | \$28.06 | \$10.50 | \$10.70 | \$0.00 | \$49.26 |
| 5 | 85 | \$31.80 | \$10.50 | \$10.70 | \$0.00 | \$53.00 |

Notes: ** 1:5, 2:6-10, the 1:10; Reroofing: 1:4, then 1:1
Step 1 is 2000 hrs.; Steps 2-5 are 1000 hrs.

Apprentice to Journeyworker Ratio:**

| | | | | | | |
|--|------------|---------|---------|---------|--------|---------|
| ROOFER SLATE / TILE / PRECAST CONCRETE ROOFERS LOCAL 33 | 02/01/2013 | \$37.66 | \$10.50 | \$10.70 | \$0.00 | \$58.86 |
|--|------------|---------|---------|---------|--------|---------|

For apprentice rates see "Apprentice- ROOFER"

| | | | | | | |
|--|------------|---------|--------|---------|--------|---------|
| SHEETMETAL WORKER SHEETMETAL WORKERS LOCAL 17 - A | 02/01/2013 | \$42.32 | \$9.82 | \$18.24 | \$2.11 | \$72.49 |
|--|------------|---------|--------|---------|--------|---------|

Apprentice - SHEET METAL WORKER - Local 17-A

Effective Date - 02/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|--------|---------|---------------------------|------------|
| 1 | 40 | \$16.93 | \$9.82 | \$4.00 | \$0.00 | \$30.75 |
| 2 | 40 | \$16.93 | \$9.82 | \$4.00 | \$0.00 | \$30.75 |
| 3 | 45 | \$19.04 | \$9.82 | \$8.00 | \$1.11 | \$37.97 |
| 4 | 45 | \$19.04 | \$9.82 | \$8.00 | \$1.11 | \$37.97 |
| 5 | 50 | \$21.16 | \$9.82 | \$8.75 | \$1.19 | \$40.92 |
| 6 | 50 | \$21.16 | \$9.82 | \$9.00 | \$1.20 | \$41.18 |
| 7 | 60 | \$25.39 | \$9.82 | \$10.24 | \$1.36 | \$46.81 |
| 8 | 65 | \$27.51 | \$9.82 | \$10.99 | \$1.45 | \$49.77 |
| 9 | 75 | \$31.74 | \$9.82 | \$12.49 | \$1.62 | \$55.67 |
| 10 | 85 | \$35.97 | \$9.82 | \$13.49 | \$1.78 | \$61.06 |

Notes:
Steps are 6 mos.

Apprentice to Journeyworker Ratio:1:4

| | | | | | | |
|--|------------|---------|--------|--------|--------|---------|
| SIGN ERECTOR PAINTERS LOCAL 35 - ZONE 2 | 06/01/2013 | \$25.81 | \$7.07 | \$7.05 | \$0.00 | \$39.93 |
|--|------------|---------|--------|--------|--------|---------|

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - SIGN ERECTOR - Local 35 Zone 2

Effective Date - 06/01/2013

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

Notes:
Steps are 4 mos.

Apprentice to Journeyworker Ratio:1:1

| | | | | | | |
|--|------------|---------|--------|---------|--------|---------|
| SPECIALIZED EARTH MOVING EQUIP < 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE A</i> | 12/01/2012 | \$31.84 | \$8.91 | \$8.00 | \$0.00 | \$48.75 |
| SPECIALIZED EARTH MOVING EQUIP > 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE A</i> | 12/01/2012 | \$32.13 | \$8.91 | \$8.00 | \$0.00 | \$49.04 |
| SPRINKLER FITTER <i>SPRINKLER FITTERS LOCAL 550 - (Section A)</i> | 03/01/2013 | \$52.58 | \$8.42 | \$12.60 | \$0.00 | \$73.60 |

Apprentice - SPRINKLER FITTER - Local 550

Effective Date - 03/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|--------|---------|---------------------------|------------|
| 1 | 35 | \$18.40 | \$8.42 | \$8.00 | \$0.00 | \$34.82 |
| 2 | 40 | \$21.03 | \$8.42 | \$8.00 | \$0.00 | \$37.45 |
| 3 | 45 | \$23.66 | \$8.42 | \$8.00 | \$0.00 | \$40.08 |
| 4 | 50 | \$26.29 | \$8.42 | \$8.00 | \$0.00 | \$42.71 |
| 5 | 55 | \$28.92 | \$8.42 | \$8.00 | \$0.00 | \$45.34 |
| 6 | 60 | \$31.55 | \$8.42 | \$8.00 | \$0.00 | \$47.97 |
| 7 | 65 | \$34.18 | \$8.42 | \$8.00 | \$0.00 | \$50.60 |
| 8 | 70 | \$36.81 | \$8.42 | \$8.00 | \$0.00 | \$53.23 |
| 9 | 75 | \$39.44 | \$8.42 | \$8.00 | \$0.00 | \$55.86 |
| 10 | 80 | \$42.06 | \$8.42 | \$8.00 | \$0.00 | \$58.48 |

Notes:
Steps are 850 hours

Apprentice to Journeyworker Ratio:1:1

| | | | | | | |
|---|------------|---------|---------|---------|--------|---------|
| STEAM BOILER OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i> | 06/01/2013 | \$39.96 | \$10.00 | \$13.55 | \$0.00 | \$63.51 |
| | 12/01/2013 | \$40.74 | \$10.00 | \$13.55 | \$0.00 | \$64.29 |

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

| Classification | Effective Date | Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|---|----------------|-----------|---------|---------|---------------------------|------------|
| TAMPERS, SELF-PROPELLED OR TRACTOR DRAWN OPERATING ENGINEERS LOCAL 4 | 06/01/2013 | \$39.96 | \$10.00 | \$13.55 | \$0.00 | \$63.51 |
| | 12/01/2013 | \$40.74 | \$10.00 | \$13.55 | \$0.00 | \$64.29 |
| For apprentice rates see "Apprentice- OPERATING ENGINEERS" | | | | | | |
| TELECOMMUNICATION TECHNICIAN ELECTRICIANS LOCAL 103 | 03/01/2013 | \$32.64 | \$13.00 | \$12.51 | \$0.00 | \$58.15 |
| | 09/01/2013 | \$33.15 | \$13.00 | \$12.52 | \$0.00 | \$58.67 |
| | 03/01/2014 | \$33.69 | \$13.00 | \$12.54 | \$0.00 | \$59.23 |
| | 09/01/2014 | \$34.20 | \$13.00 | \$12.56 | \$0.00 | \$59.76 |
| | 03/01/2015 | \$34.74 | \$13.00 | \$12.57 | \$0.00 | \$60.31 |
| | 09/01/2015 | \$35.45 | \$13.00 | \$12.59 | \$0.00 | \$61.04 |
| | 03/01/2016 | \$36.17 | \$13.00 | \$12.62 | \$0.00 | \$61.79 |

Apprentice - TELECOMMUNICATION TECHNICIAN - Local 103

Effective Date - 03/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|---------|---------|---------------------------|------------|
| 1 | 40 | \$13.06 | \$13.00 | \$0.39 | \$0.00 | \$26.45 |
| 2 | 40 | \$13.06 | \$13.00 | \$0.39 | \$0.00 | \$26.45 |
| 3 | 45 | \$14.69 | \$13.00 | \$10.77 | \$0.00 | \$38.46 |
| 4 | 45 | \$14.69 | \$13.00 | \$10.77 | \$0.00 | \$38.46 |
| 5 | 50 | \$16.32 | \$13.00 | \$11.02 | \$0.00 | \$40.34 |
| 6 | 55 | \$17.95 | \$13.00 | \$11.27 | \$0.00 | \$42.22 |
| 7 | 60 | \$19.58 | \$13.00 | \$11.52 | \$0.00 | \$44.10 |
| 8 | 65 | \$21.22 | \$13.00 | \$11.77 | \$0.00 | \$45.99 |
| 9 | 70 | \$22.85 | \$13.00 | \$12.02 | \$0.00 | \$47.87 |
| 10 | 75 | \$24.48 | \$13.00 | \$12.26 | \$0.00 | \$49.74 |

Effective Date - 09/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|---------|---------|---------------------------|------------|
| 1 | 40 | \$13.26 | \$13.00 | \$0.40 | \$0.00 | \$26.66 |
| 2 | 40 | \$13.26 | \$13.00 | \$0.40 | \$0.00 | \$26.66 |
| 3 | 45 | \$14.92 | \$13.00 | \$9.79 | \$0.00 | \$37.71 |
| 4 | 45 | \$14.92 | \$13.00 | \$9.79 | \$0.00 | \$37.71 |
| 5 | 50 | \$16.58 | \$13.00 | \$10.04 | \$0.00 | \$39.62 |
| 6 | 55 | \$18.23 | \$13.00 | \$10.29 | \$0.00 | \$41.52 |
| 7 | 60 | \$19.89 | \$13.00 | \$10.54 | \$0.00 | \$43.43 |
| 8 | 65 | \$21.55 | \$13.00 | \$10.79 | \$0.00 | \$45.34 |
| 9 | 70 | \$23.21 | \$13.00 | \$11.04 | \$0.00 | \$47.25 |
| 10 | 75 | \$24.86 | \$13.00 | \$11.29 | \$0.00 | \$49.15 |

Notes:

Apprentice to Journeyworker Ratio:1:1

| Classification | Effective Date | Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|--|----------------|-----------|---------|---------|---------------------------|------------|
| TERRAZZO FINISHERS <i>BRICKLAYERS LOCAL 3 - MARBLE & TILE</i> | 02/01/2013 | \$46.35 | \$10.18 | \$17.83 | \$0.00 | \$74.36 |
| | 08/01/2013 | \$47.25 | \$10.18 | \$17.90 | \$0.00 | \$75.33 |
| | 02/01/2014 | \$47.81 | \$10.18 | \$17.90 | \$0.00 | \$75.89 |
| | 08/01/2014 | \$48.71 | \$10.18 | \$17.97 | \$0.00 | \$76.86 |
| | 02/01/2015 | \$49.27 | \$10.18 | \$17.97 | \$0.00 | \$77.42 |
| | 08/01/2015 | \$50.17 | \$10.18 | \$18.04 | \$0.00 | \$78.39 |
| | 02/01/2016 | \$50.74 | \$10.18 | \$18.04 | \$0.00 | \$78.96 |
| | 08/01/2016 | \$51.64 | \$10.18 | \$18.12 | \$0.00 | \$79.94 |
| | 02/01/2017 | \$52.21 | \$10.18 | \$18.12 | \$0.00 | \$80.51 |

Apprentice - TERRAZZO FINISHER - Local 3 Marble & Tile

Effective Date - 02/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|---------|---------|---------------------------|------------|
| 1 | 50 | \$23.18 | \$10.18 | \$17.83 | \$0.00 | \$51.19 |
| 2 | 60 | \$27.81 | \$10.18 | \$17.83 | \$0.00 | \$55.82 |
| 3 | 70 | \$32.45 | \$10.18 | \$17.83 | \$0.00 | \$60.46 |
| 4 | 80 | \$37.08 | \$10.18 | \$17.83 | \$0.00 | \$65.09 |
| 5 | 90 | \$41.72 | \$10.18 | \$17.83 | \$0.00 | \$69.73 |

Effective Date - 08/01/2013

| Step | percent | Apprentice Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|------|---------|----------------------|---------|---------|---------------------------|------------|
| 1 | 50 | \$23.63 | \$10.18 | \$17.90 | \$0.00 | \$51.71 |
| 2 | 60 | \$28.35 | \$10.18 | \$17.90 | \$0.00 | \$56.43 |
| 3 | 70 | \$33.08 | \$10.18 | \$17.90 | \$0.00 | \$61.16 |
| 4 | 80 | \$37.80 | \$10.18 | \$17.90 | \$0.00 | \$65.88 |
| 5 | 90 | \$42.53 | \$10.18 | \$17.90 | \$0.00 | \$70.61 |

Notes:

Apprentice to Journeyworker Ratio:1:3

| | | | | | | |
|--|------------|---------|--------|---------|--------|---------|
| TEST BORING DRILLER <i>LABORERS - FOUNDATION AND MARINE</i> | 06/01/2013 | \$34.45 | \$7.10 | \$12.60 | \$0.00 | \$54.15 |
| | 12/01/2013 | \$35.20 | \$7.10 | \$12.60 | \$0.00 | \$54.90 |
| | 06/01/2014 | \$35.95 | \$7.10 | \$12.60 | \$0.00 | \$55.65 |
| | 12/01/2014 | \$36.70 | \$7.10 | \$12.60 | \$0.00 | \$56.40 |
| | 06/01/2015 | \$37.45 | \$7.10 | \$12.60 | \$0.00 | \$57.15 |
| | 12/01/2015 | \$38.20 | \$7.10 | \$12.60 | \$0.00 | \$57.90 |
| | 06/01/2016 | \$38.95 | \$7.10 | \$12.60 | \$0.00 | \$58.65 |
| | 12/01/2016 | \$39.95 | \$7.10 | \$12.60 | \$0.00 | \$59.65 |

For apprentice rates see "Apprentice- LABORER"

| Classification | Effective Date | Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|---|----------------|-----------|---------|---------|---------------------------|------------|
| TEST BORING DRILLER HELPER <i>LABORERS - FOUNDATION AND MARINE</i> | 06/01/2013 | \$33.17 | \$7.10 | \$12.60 | \$0.00 | \$52.87 |
| | 12/01/2013 | \$33.92 | \$7.10 | \$12.60 | \$0.00 | \$53.62 |
| | 06/01/2014 | \$34.67 | \$7.10 | \$12.60 | \$0.00 | \$54.37 |
| | 12/01/2014 | \$35.42 | \$7.10 | \$12.60 | \$0.00 | \$55.12 |
| | 06/01/2015 | \$36.17 | \$7.10 | \$12.60 | \$0.00 | \$55.87 |
| | 12/01/2015 | \$36.92 | \$7.10 | \$12.60 | \$0.00 | \$56.62 |
| | 06/01/2016 | \$37.67 | \$7.10 | \$12.60 | \$0.00 | \$57.37 |
| | 12/01/2016 | \$38.67 | \$7.10 | \$12.60 | \$0.00 | \$58.37 |
| For apprentice rates see "Apprentice- LABORER" | | | | | | |
| TEST BORING LABORER <i>LABORERS - FOUNDATION AND MARINE</i> | 06/01/2013 | \$33.05 | \$7.10 | \$12.60 | \$0.00 | \$52.75 |
| | 12/01/2013 | \$33.80 | \$7.10 | \$12.60 | \$0.00 | \$53.50 |
| | 06/01/2014 | \$34.55 | \$7.10 | \$12.60 | \$0.00 | \$54.25 |
| | 12/01/2014 | \$35.30 | \$7.10 | \$12.60 | \$0.00 | \$55.00 |
| | 06/01/2015 | \$36.05 | \$7.10 | \$12.60 | \$0.00 | \$55.75 |
| | 12/01/2015 | \$36.80 | \$7.10 | \$12.60 | \$0.00 | \$56.50 |
| | 06/01/2016 | \$37.55 | \$7.10 | \$12.60 | \$0.00 | \$57.25 |
| | 12/01/2016 | \$38.55 | \$7.10 | \$12.60 | \$0.00 | \$58.25 |
| For apprentice rates see "Apprentice- LABORER" | | | | | | |
| TRACTORS/PORTABLE STEAM GENERATORS <i>OPERATING ENGINEERS LOCAL 4</i> | 06/01/2013 | \$39.96 | \$10.00 | \$13.55 | \$0.00 | \$63.51 |
| | 12/01/2013 | \$40.74 | \$10.00 | \$13.55 | \$0.00 | \$64.29 |
| For apprentice rates see "Apprentice- OPERATING ENGINEERS" | | | | | | |
| TRAILERS FOR EARTH MOVING EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE A</i> | 12/01/2012 | \$32.42 | \$9.07 | \$8.00 | \$0.00 | \$49.49 |
| TUNNEL WORK - COMPRESSED AIR <i>LABORERS (COMPRESSED AIR)</i> | 06/01/2013 | \$45.33 | \$7.10 | \$13.00 | \$0.00 | \$65.43 |
| | 12/01/2013 | \$46.08 | \$7.10 | \$13.00 | \$0.00 | \$66.18 |
| | 06/01/2014 | \$46.83 | \$7.10 | \$13.00 | \$0.00 | \$66.93 |
| | 12/01/2014 | \$47.58 | \$7.10 | \$13.00 | \$0.00 | \$67.68 |
| | 06/01/2015 | \$48.33 | \$7.10 | \$13.00 | \$0.00 | \$68.43 |
| | 12/01/2015 | \$49.08 | \$7.10 | \$13.00 | \$0.00 | \$69.18 |
| | 06/01/2016 | \$49.83 | \$7.10 | \$13.00 | \$0.00 | \$69.93 |
| | 12/01/2016 | \$50.83 | \$7.10 | \$13.00 | \$0.00 | \$70.93 |
| For apprentice rates see "Apprentice- LABORER" | | | | | | |
| TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE) <i>LABORERS (COMPRESSED AIR)</i> | 06/01/2013 | \$47.33 | \$7.10 | \$13.00 | \$0.00 | \$67.43 |
| | 12/01/2013 | \$48.08 | \$7.10 | \$13.00 | \$0.00 | \$68.18 |
| | 06/01/2014 | \$48.83 | \$7.10 | \$13.00 | \$0.00 | \$68.93 |
| | 12/01/2014 | \$49.58 | \$7.10 | \$13.00 | \$0.00 | \$69.68 |
| | 06/01/2015 | \$50.33 | \$7.10 | \$13.00 | \$0.00 | \$70.43 |
| | 12/01/2015 | \$51.08 | \$7.10 | \$13.00 | \$0.00 | \$71.18 |
| | 06/01/2016 | \$51.83 | \$7.10 | \$13.00 | \$0.00 | \$71.93 |
| | 12/01/2016 | \$52.83 | \$7.10 | \$13.00 | \$0.00 | \$72.93 |
| For apprentice rates see "Apprentice- LABORER" | | | | | | |

| Classification | Effective Date | Base Wage | Health | Pension | Supplemental Unemployment | Total Rate |
|--|----------------|-----------|---------|---------|---------------------------|------------|
| TUNNEL WORK - FREE AIR <i>LABORERS (FREE AIR TUNNEL)</i> | 06/01/2013 | \$37.40 | \$7.10 | \$13.00 | \$0.00 | \$57.50 |
| | 12/01/2013 | \$38.15 | \$7.10 | \$13.00 | \$0.00 | \$58.25 |
| | 06/01/2014 | \$38.90 | \$7.10 | \$13.00 | \$0.00 | \$59.00 |
| | 12/01/2014 | \$39.65 | \$7.10 | \$13.00 | \$0.00 | \$59.75 |
| | 06/01/2015 | \$40.40 | \$7.10 | \$13.00 | \$0.00 | \$60.50 |
| | 12/01/2015 | \$41.15 | \$7.10 | \$13.00 | \$0.00 | \$61.25 |
| | 06/01/2016 | \$41.90 | \$7.10 | \$13.00 | \$0.00 | \$62.00 |
| | 12/01/2016 | \$42.90 | \$7.10 | \$13.00 | \$0.00 | \$63.00 |
| For apprentice rates see "Apprentice- LABORER" | | | | | | |
| TUNNEL WORK - FREE AIR (HAZ. WASTE) <i>LABORERS (FREE AIR TUNNEL)</i> | 06/01/2013 | \$39.40 | \$7.10 | \$13.00 | \$0.00 | \$59.50 |
| | 12/01/2013 | \$40.15 | \$7.10 | \$13.00 | \$0.00 | \$60.25 |
| | 06/01/2014 | \$40.90 | \$7.10 | \$13.00 | \$0.00 | \$61.00 |
| | 12/01/2014 | \$41.65 | \$7.10 | \$13.00 | \$0.00 | \$61.75 |
| | 06/01/2015 | \$42.40 | \$7.10 | \$13.00 | \$0.00 | \$62.50 |
| | 12/01/2015 | \$43.15 | \$7.10 | \$13.00 | \$0.00 | \$63.25 |
| | 06/01/2016 | \$43.90 | \$7.10 | \$13.00 | \$0.00 | \$64.00 |
| | 12/01/2016 | \$44.90 | \$7.10 | \$13.00 | \$0.00 | \$65.00 |
| For apprentice rates see "Apprentice- LABORER" | | | | | | |
| VAC-HAUL <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE A</i> | 12/01/2012 | \$31.84 | \$8.91 | \$8.00 | \$0.00 | \$48.75 |
| WAGON DRILL OPERATOR <i>LABORERS - ZONE 1</i> | 06/01/2013 | \$33.30 | \$7.10 | \$12.45 | \$0.00 | \$52.85 |
| | 12/01/2013 | \$34.05 | \$7.10 | \$12.45 | \$0.00 | \$53.60 |
| | 06/01/2014 | \$34.80 | \$7.10 | \$12.45 | \$0.00 | \$54.35 |
| | 12/01/2014 | \$35.55 | \$7.10 | \$12.45 | \$0.00 | \$55.10 |
| | 06/01/2015 | \$36.30 | \$7.10 | \$12.45 | \$0.00 | \$55.85 |
| | 12/01/2015 | \$37.05 | \$7.10 | \$12.45 | \$0.00 | \$56.60 |
| | 06/01/2016 | \$37.80 | \$7.10 | \$12.45 | \$0.00 | \$57.35 |
| | 12/01/2016 | \$38.80 | \$7.10 | \$12.45 | \$0.00 | \$58.35 |
| For apprentice rates see "Apprentice- LABORER" | | | | | | |
| WASTE WATER PUMP OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i> | 06/01/2013 | \$40.34 | \$10.00 | \$13.55 | \$0.00 | \$63.89 |
| | 12/01/2013 | \$41.12 | \$10.00 | \$13.55 | \$0.00 | \$64.67 |
| For apprentice rates see "Apprentice- OPERATING ENGINEERS" | | | | | | |
| WATER METER INSTALLER <i>PLUMBERS & GASFITTERS LOCAL 12</i> | 03/01/2013 | \$49.31 | \$9.32 | \$13.29 | \$0.00 | \$71.92 |
| For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER" | | | | | | |

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) unless otherwise specified.

- * Ratios are expressed in allowable number of apprentices to journeymen or fraction thereof.
- ** 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.