

Proposer / Bidder Registration Form

It is the Bidder's responsibility to make certain they have received any/all addenda relating to their bid / proposal prior to the bid opening date. If you are downloading a bid we strongly encourage you to notify the City of Beverly Purchasing Department at dgelineau@beverlyma.gov and provide us with the following information. In the event an addendum is issued it will be sent to all bidders who have provided the City with this information.

Request for Proposal or Invitation for Bid Number: 15-1000

Contact Name:

Company Name:

Address:

City/Town:

State:

Zip Code:

Phone:

Fax:

Cell:

Email:

**Site Visit Monday March 16, 2015 11:00 A.M.
Lynch Park, 55 Ober Street, Beverly, MA
Meet at the Music Shell**



CITY OF BEVERLY

15-1000

Lynch Park Bathroom Building

**Filed Sub Bids for Masonry and Plumbing Due:
Thursday, March 26, 2015 @ 11:00 A.M.**

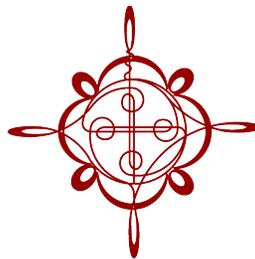
**General BIDS DUE:
Tuesday, March 31, 2015 @ 11:00 A.M.**

at the Office of the Purchasing Agent,
City Hall 191 Cabot Street, Beverly,
Massachusetts 01915

LYNCH PARK
BATHROOM BUILDING
55 OBER STREET
BEVERLY, MASSACHUSETTS 01915

PROJECT MANUAL

March 06, 2015



B T A
28 VINCENT RD
MENDON, MASSACHUSETTS 01756
(508) 634 8401

City of Beverly
191 Cabot Street
Beverly, MA 01915

Lynch Park Bathroom Building

Architect's PN 14015
March 06, 2015

BTA
28 Vincent Road
Mendon, MA 01756

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Forms

Submitted Forms Checklist

For the Bidder's Convenience we have included this form.

Please be sure you have included the following.

Included

- Yes** **No** Form for the General- Bid or Form for Sub- Bid
- Yes** **No** DCAM Certificate of Eligibility
- Yes** **No** Contractor Update Statement
- Yes** **No** Bid Security
- Yes** **No** Contract Qualification Data Form
- Yes** **No** Certification of Good Faith
- Yes** **No** Conflict of Interest Certification
- Yes** **No** Certificate of State Tax Compliance
- Yes** **No** Corporate Vote
- Yes** **No** Certificate of Compliance with M.G.L. c.151B
- Yes** **No** Certificate of Non-Debarment
- Yes** **No** Affidavit of OSHA Compliance

Signature

IFB No. 15-1000
Lynch Park Bathroom Building
Beverly, Massachusetts

INSTRUCTIONS TO BIDDERS

1.1 SECURING DOCUMENTS

- A. Bidding Documents include the Invitation to Bid, Instructions to Bidders, Form for General Bid, Form for Sub-Bid, and Bid Bond Form, and any Addenda issued prior to receipt of Bids. The Contract Documents for the proposed Work consist of the Bidding Documents, the Agreement (or Contract) Between Contractor And Owner, vote of Corporation authorizing Signing of Contract, Form of Subcontract Between Contractor and Subcontractor (for filed sub-bidders), the General Conditions of the Contract for Construction, Supplementary Conditions, Statutory Provisions for Massachusetts Public Construction Contracts, the Drawings, the Specifications, and all Modifications issued after execution of the Contract.
- B. All definitions set forth in the General Conditions of the Contract for Construction, or in other Contract Documents, are applicable to the Bidding Documents.
- C. Addenda are written or graphic instruments issued by the Owner through the Architect prior to the execution of the Contract which modify or interpret the Bidding Documents by additions, deletions, clarifications or corrections.
- D. A Bid is a complete and properly signed proposal to do the Work or designated portion thereof for the sums stipulated therein, submitted in accordance with the Bidding Documents.
- E. The Base Bid is the sum stated in the Bid for which the Bidder offers to perform the work described in the Bidding Documents.

1.2 COPIES OF BIDDING/CONTRACT DOCUMENTS

- A. Bidders may obtain complete sets of the Contract Documents as described in the Advertisement.
- B. Bidders shall use complete sets of Contract Documents in preparing Bids; neither the Owner nor the Architect or Owner's Project Manager assume any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Contract Documents.
- C. The Owner or the Architect in making copies of the Contract Documents available on the above terms does so only for the purpose of obtaining Bids on the Work and does not confer a license or grant for any other use.

1.3 BIDDERS REPRESENTATIONS

- A. Each Bidder by making his Bid represents that:
 - 1. They have read and carefully examined and understands the Contract Documents and his Bid is made in accordance therewith.
 - 2. He has visited the site, has familiarized himself with the local conditions under which the Work is to be performed and has correlated his observations with the requirements of the proposed Contract Documents.
 - 3. His Bid is based upon the materials, systems, and equipment required by the Contract Documents without exception.
 - 4. He has carefully examined all available relevant information including geotechnical reports, and existing condition drawings prepared by other architects.

5. He understands to the fullest extent that the award of this contract is contingent upon an availability of sufficient funds. Assuming sufficient funds are available for this project the work will begin on or around April 6, 2015.

6. General Bidders Only: The resumes of project management and supervisory personnel attached to or included in the bid represent the assigned employees who will be dedicated 100% to the Project, for the duration of the Project.

- B. By signing and submitting a General Bid, each bidder (1) represents that in regard to the conditions affecting the work to be done and the labor and materials needed, his General Bid is based solely on his familiarization with the site in conjunction with the Contract Documents and other documents, and not on any oral or other representations of any employee, officer, agent or consultant of the Awarding Authority, and (2) agrees and assures that the site, the Contract Documents have been examined; that the Contract Documents are adequate; and that the required results can be produced under the Contract Documents. Documents are adequate; and that the required results can be produced under the Contract Documents.

1.4 INTERPRETATION AND CORRECTION OF DOCUMENTS

- A. Bidders and Sub-Bidders shall promptly notify the Owner's Project Representative (OPR) in writing, of any ambiguity, inconsistency or error which they may discover upon examination of the Contract Documents or the site and local conditions. Failure to so notify the OPR of any ambiguity, inconsistency or error that the bidder discovers or should have discovered in, or knows or should know exists in, the Contract Documents or the site and local conditions, shall preclude the bidder, if awarded a contract, from claiming or receiving any adjustments to the contract price or contract time on account of such ambiguity, inconsistency or error.
- B. Bidders and Sub-Bidders requiring clarification or interpretation of the Contract Documents shall make a written request which shall reach the OPR at least three (3) business days prior to the date for receipt of Bids. Inquiries may be emailed to Purchasing Agent David Gelineau: dgelineau@beverlyma.gov. Bidders must identify the Project in all communications.
- C. Any interpretations, corrections or changes of the Contract Documents will be made, if at all, by written Addendum, which, when issued, become part of the Bidding/Contract Documents. Interpretations, corrections or changes of the Contract Documents purported to be made in any other manner shall have no standing, and Bidders shall not rely upon such interpretations, corrections and changes.
- D. Any estimates of quantities of materials or work that may be provided by the Awarding Authority or its architects, engineers or other consultants are for purposes of bid comparison only and are not guaranteed.
- E. The Awarding Authority makes no warranty, express or implied, that the Contract Documents and any estimates provided in connection therewith are accurate as to the kind or quantity of work required, and any such warranties are hereby expressly disclaimed. Each Bidder shall proceed at his own risk in investigating the proposed work, reviewing site conditions and the proposed Contract Documents, and submitting a bid.

1.5 ADDENDUM

- A. Addenda will be sent by email to all Bidders of record at the respective email addresses furnished by the Bidders for such purposes. Nevertheless, Bidders are solely responsible to ensure that they have received all Addenda.

- B. No Addenda will be issued later than two (2) calendar days prior to the date for receipt of Bids except an Addendum which includes postponement of the date for receipt of Bids.
- C. Each Bidder shall ascertain prior to submitting a Bid that he has received all Addenda issued, and shall acknowledge their receipt in his Bid.

1.6 PREPARATION OF GENERAL BIDS AND SUB-BIDS

- A. Each General Bid and each Filed Sub-Bid shall be submitted on the prescribed FORM FOR GENERAL BID and FORM FOR SUB-BID respectively.
- B. Each General Bid and each Filed Sub-Bid shall submit one original and one copy of their bid to the City.**
- C. Every bid which is not accompanied by a bid deposit, in the amount of five percent (5%) of the total bid price, or which does not otherwise conform to sections 44A-44H, inclusive, of Chapter 149 of the General Laws, or which is on a form not completely filled in, or which is incomplete, conditional or obscure, or which contains any addition not called for, will be rejected. All blank spaces on the bid form shall be filled in, in ink or type- written, in words and figures, without alterations or erasures. Use figures alone only where no space is provided for words. Every bid shall be signed in longhand by the Bidder and shall give the Bidder's business address.
- D. All bids for this Project are subject to the provisions of Massachusetts General Laws (Ter. Ed.), Chapter 30, Section 39M as amended and Chapter 149, Sections 44A through 44L inclusive and Chapter 149, Sections 26 through 27D inclusive.

1.7 BID SECURITY

- A. Each General Bid and each Filed Sub-Bid shall be accompanied by bid Security equal to five percent (5%) of the Bid amount in the form of a Bid Bond, Cash or a Certified, Treasurer's or Cashier's Check issued by a responsible U.S. bank or Trust Company, payable to the City of Beverly. Any surety bond provided must be from a surety company on the US Treasury list with a rate of at least an A+, Category X. Each Bidder shall attach the required Bid Bond or Check to the Bid Form. A Bid Bond must be (a) in a form satisfactory to the City; (b) issued by a surety company qualified to do business in the Commonwealth and satisfactory to the awarding authority; and (c) conditioned upon the faithful performance by the principal of the agreements contained in the bid.

1.8 SUBMISSIONS OF FILED SUB-BIDS

- A. Each Sub-Bid for sub-trades designated in Item 2 of the FORM FOR GENERAL BID shall be submitted upon the FORM FOR SUB-BID. All blank spaces shall be filled in, in ink or typewritten, in words or figures without alterations or erasures. Use figures alone only where no space is provided for words. Sub-Bids must be signed by the Sub-Bidder in longhand and shall give the sub-bidder's business address. The FORM FOR SUB-BID, including the required Bid Security, shall be enclosed in a sealed envelope with the following plainly marked on the outside:

FROM: Bidder's Name and Business Address
SUB-BID FOR _____ (Section ##### Name of Section)
LYNCH PARK BATHROOM BUILDING

- 1. Each Sub-Bidder shall include the following forms with their bids:
 - a. Form for the Sub-Bid
 - b. Bid Security
 - c. DCAM Certificate of Eligibility

d. Contractor Update Statement, DCAM Form

2. Each Sub-bid must include a DCAM Certificate of Eligibility and DCAM Update Statement, as indicated above. Failure to submit these documents with the sub-bid shall result in rejection of the sub-bid.

B. If the Bid is mailed, the Sub-Bidder shall enclose his sealed Bid in an outer envelope, addressed as follows:

FROM: Filed Sub- Bidder's Name and Business Address
LYNCH PARK BATHROOM BUILDING

TO: Purchasing Department
City of Beverly
191 Cabot Street
Beverly, MA 01915

1.9 SUBMISSION OF GENERAL BIDS

- A. For each Bid, the General Contractor shall use a responsive and eligible Sub-Bidder for each Sub-Bid category.
- B. Each General Bid shall be submitted on the FORM FOR GENERAL BID furnished by the Owner, or copied from the Project Manual. All blank spaces shall be filled in, in ink or typewritten, in words or figures without alterations or erasures. Use figures alone only where no space is provided for words. The FORM FOR GENERAL BID must be signed in longhand by the General Bidder and shall give the general bidder's business address. The Form for General Bid, including the Bid Security, shall be enclosed in a sealed envelope with the following plainly marked on the outside:

GENERAL BID FOR:
LYNCH PARK BATHROOM BUILDING

If the Bid is mailed, the Bidder shall enclose his sealed Bid in an outer envelope, addressed as follows:

FROM: General Bidder's Name and Business Address
LYNCH PARK BATHROOM BUILDING

To: Purchasing Department
City of Beverly
191 Cabot Street
Beverly, MA 01915

1. Each General Bidder shall include the following with their Bid:
 - a. Form for the General-Bid
 - b. Bid Security
 - c. DCAM Certificate of Eligibility
 - d. Contractor Update Statement, DCAM Form
- C. As required by M.G.L., c. 149, Section 44D, every General Bid must be accompanied by a Certificate of Eligibility issued by the Division of Capital Asset Management. Each General Bid shall also be accompanied by an updated statement on the form prescribed by said Division. Any General Bid submitted without the appropriate Certificate and update statement shall be invalid.

- D. All bidders are cautioned to allow ample time for transmittal of Bids. Bids received after the specified time and date will not be accepted nor recognized. The time of receipt will determine the acceptability of mailed bids, regardless of postmark.
- E. Any bid may be withdrawn prior to the time scheduled for the opening of such bids or authorized postponement thereof. No bid may be withdrawn for thirty (30) days, Saturdays, Sundays and legal holidays excluded, after opening of General Bids. No telephone or telegraphic bid, change in bid or withdrawal of bid will be received nor recognized.

1.10 FILED SUB-BID PROCEDURES (See G.L. c.149, 44F)

- A. Every Sub-Bidder filing a Sub-Bid with the Awarding Authority shall be bound thereby to every General Bidder not expressly excluded therein, and any variance from such Sub-Bid communicated to a General Bidder shall be of no effect.
- B. Within two (2) days, Saturdays, Sundays and legal holidays excluded, after opening of Sub-Bids, the Awarding Authority will reject every Sub-Bid which is not accompanied by a Bid Security, or which is on a form not completely filled in, or which is incomplete, conditional or obscure, or which contains any addition not called for. However, failure of the Awarding Authority to reject such a Sub-Bid within such period shall not validate such a Sub-Bid nor preclude the Awarding Authority from subsequently rejecting it.
- C. Not later than the second day, Saturdays, Sundays and legal holidays excluded, before the day fixed by the Awarding Authority for the opening of General Bids, the Awarding Authority will mail to every person on record as having taken a set of Bidding Documents, a list of Sub-Bidders arranged by Sub-Trades and listing for each sub-trade, the name, address and Sub-Bid price of every Sub-Bidder submitting a Sub-Bid thereon not rejected by the Awarding Authority, and the names of all General Bidders expressly precluded from using such Sub-Bid.
- D. A person shall not be named by a General Bidder as a Sub-Bidder for a sub-trade in Item 2 of the Form for General Bid unless such person is included for such sub-trade in the list of sub-bidders.
- E. No valid General Bid will be rejected because of errors in the Sub-Bid list or because of any invalid action of the Awarding Authority in connection with Sub-Bids.
- F. If no sub-bid is filed for a sub-trade designated in the General Bid Form or if the only sub-bids which are filed are restricted to the use of one or more General Bidders, the Awarding Authority may state, in an addendum issued with the list of Sub-Bidders, that the General Bidder shall include in the cost of his own work an amount to cover all the work required for any such sub-trade. The General Contractor shall cause the work covered by such sub-trade to be done by a qualified and responsible sub-contractor, subject to the written approval of the Awarding Authority. If the Awarding Authority determines that any subcontractor chosen by the General Contractor under this section is not qualified or responsible, the General Contractor shall obtain another sub-contractor who is satisfactory to the Awarding Authority with no adjustment in the General Contractor's price.
- G. If a rejection of all Sub-Bids for a sub-trade designated in Item 2 of the Form for General Bid occurs for the reasons stated in G.L.c.149 §44F(4)(a)(2), the Awarding Authority will state in an Addendum issued with the list of Sub-Bidders, the amount to be included by each General Bidder under Item 2 of the Form For General Bid for such sub-trade; and without affecting other Sub-Bidders in any way, who have conformed to the prescribed bidding procedure, new Sub-Bids for such sub-trade will be requested by written invitation to three (3) or more qualified Sub-Bidders and will be publicly opened and read by the Awarding Authority at a time and place to be specified in such invitation. In such case, the Contract Price will be adjusted by the difference between the Filed Sub-Bid of the lowest responsible and eligible Sub-Bidder and the amount stated in the Addendum for such work.

- H. If a selected Sub-Bidder fails within five (5) days, Saturdays, Sundays and legal holidays excluded, after presentation of a Subcontract by the General Bidder selected as the General Contractor, to perform his agreement to execute a Subcontract in the form set forth herein with such General Bidder, contingent upon the execution of the General Contract, and, if required to do so pursuant to the pre-qualification process under section 44D 3/4 of Chapter 149 of the General Laws, or if required to do so by such General Bidder in the General Bid, to furnish a Performance and Payment Bond as stated in his Sub-Bid, such General Bidder and the Awarding Authority shall select, from the other Sub-Bidders, the lowest responsible and eligible Sub-Bidder at the amount named in his Sub-Bid against whose standing and ability the General Contractor makes no objection, and the Contract Price will be adjusted by the difference between the amount of such Sub-Bid and the amount of the Sub-Bid of the delinquent Sub-Bidder.

1.11 RIGHT TO REJECT BIDS

- A. The Awarding Authority reserves the right to reject any or all Bids if it be in the public interest so to do, and for any other reason permitted by law. (G.L. c.149, §.44E)
- B. The Awarding Authority reserves the right to reject any Sub-Bid for any sub-trade if it determines that such Sub-Bid does not represent the Sub-Bid of a person competent, responsible and eligible to perform the work as specified, and for the reasons permitted by G.L. c. 149, § 44F, and for any other reason permitted by law.

1.12 METHOD OF AWARD

- A. The General Contract will be awarded to the lowest responsible and eligible General Bidder on the basis of the proposed Contract Price.
- B. The award of Contract will be made, if at all, within thirty (30) days, Saturdays, Sundays and legal holidays excluded, after the opening of General Bids
- C. Special attention is directed to the provisions of Sections 44A through 44L of Chapter 149 defining the term "lowest responsible and eligible Bidder" and giving the Awarding Authority the right to require essential information in regard to qualifications. The successful General Bidder must submit a performance bond and payment bond each in the amount of bid price. Such bonds must be issued by a surety who is qualified to do business in the Commonwealth of Massachusetts and who is satisfactory to the Awarding Authority.
- D. In the event of a tie of two vendors, the vendors will be invited to the procurement office for a coin toss to break the tie. In the event of a tie of more than two vendors, the vendors will be invited to the procurement office for a random drawing to break the tie.
- E. If the General Bidder selected as General Contractor fails to execute the Agreement in accordance with the terms of his General Bid and G.L.c.149, §44E, and to furnish a 100 percent Performance Bond and a 100 percent Payment Bond as required by the Bidding Documents, an award will be made to the next lowest responsible and eligible General Bidder.
- F. The 30 day time limit will not apply to a second or subsequent award made after the expiration of the time limit because the first lowest responsible and eligible General Bidder fails to execute the Agreement or to furnish a Performance Bond and Payment Bond.

1.13 EXECUTION OF CONTRACTS

- A. The General Bidder who is selected as General Contractor shall promptly confer with the Owner on the question of Sub-Bidders; shall execute the Agreement with the Owner within five (5) days, Saturdays, Sundays and legal holidays excluded, after presentation thereof in accordance with his General Bid; and shall furnish with the executed Agreement, a Performance Bond and also a Payment Bond, each of which shall be in the sum of 100 percent of the Contract Price, the premiums for which are to be paid by the General Contractor and are included in the Contract Price. The forms for the bonds are contained herein. The Surety company must be qualified to do business under the laws of the Commonwealth of Massachusetts and must be satisfactory to the Awarding Authority. Attorneys-in-fact who sign bonds must file with each bond a certified and effectively dated copy of their power-of-attorney.
- B. A selected Sub-Bidder, within five (5) days, Saturdays, Sundays, and legal holidays excluded, after presentation of a Subcontract by the General Bidder selected as General Contractor, shall execute a Subcontract in accordance with the terms of his Sub-Bid and contingent upon the execution of the General Contract and if required, shall furnish a Performance Bond and Payment Bond as prescribed in the Sub-Bid Form. The Form of Subcontracts is contained herein.
- C. Subcontracts other than those for which Sub-Bids are required shall be negotiated by the General Contractor who shall furnish a list of all Subcontractors to the Owner, through the Architect, upon request. The receipt of such list, and the approval or absence of approval of any subcontractor on such list, shall not be interpreted as, and shall not constitute, an approval of any such subcontractor by the Awarding Authority under G.L. c. 30, § 39F.
- D. The selected General Bidder must agree to commence work within five(5) days of execution of a General Contract and to substantially complete all Work in accordance with the phasing schedule contained in the Contract Documents.

1.14 SALES TAX

- A. The Owner is exempt from payment of sales and use taxes in the Commonwealth of Massachusetts. Bidders shall not include in their Bid any tax imposed upon the sales or rentals of tangible personal property in this Commonwealth, such as any and all building materials, supplies, services and equipment required to construct and complete the Work of this Contract.
- B. The Owner will furnish tax exemption certificates as required to the selected Contractor and Subcontractors.

1.15 PROPRIETARY MATERIALS

- A. Attention is directed to the provisions of G.L. Chapter 30, Sec. 39M, which require full competition on each item of material to be furnished under contracts for public work.

1.16 SUBSTITUTIONS

- A. The Project is subject to M.G.L. Ch. 30, Section 39M (b), requiring that specifications be written to provide full competition for each item of material to be furnished under the Contract. Notwithstanding anything to the contrary herein, the City shall consider any proposed equals in accordance with and to the extent required by section 39M (b) of chapter 30 of the General Laws, which is incorporated herein by reference.
- B. Basis-of-Design Product Specification: The specifications may contain specific manufacturer's products including make or model number or other designation, to establish the significant qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics for purposes of evaluating comparable products of other named manufacturers. This shall not limit the use of products from other manufacturers considered equal to the named product.

- C. Comparable Product: Product that is demonstrated and approved through submittal process, or where indicated as a product substitution, to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product. M.G.L. Ch. 30, Section 39M(b), further defines “or equal” as a product that”
 - 1. Is at least equal in quality, durability, appearance, strength and design.
 - 2. Will perform at least equally the function imposed by the general design for the public work being contracted for or the material being purchased.
 - 3. Conforms substantially, even with deviations, to the detailed requirements for the item in the said specifications.
- D. Any bidder that questions the “or equal” status of a product or system is encouraged to submit the product to the Architect during the bid phase for review and approval as an “or equal.”
 - 1. A substitution request form has been included in the Bidding Documents (CSI form 1.5C) for the bidders use.

1.17 PREVAILING WAGES

- A. Prevailing wages are applicable to this project under G.L. c. 149, §§ 26-27D. The prevailing wage rate sheets applicable to the project work, and example payroll record form and statement of compliance form are included in the Bidding Documents.

1.18 PERMITS AND FEES

- A. Contractor shall obtain all permits required for construction work.
- B. The City of Beverly will waive all fees required by the City of Beverly for all of the building permits including, but not limited to, the building permit, electrical permit, plumbing permit. Do not include the building permit fee in the contract amount.
- C. Contractor shall pay for all other permits, governmental fees and licenses for the Work.

1.19 ALTERNATES (If Applicable)

- A. Each Bidder shall thoroughly examine the Contract Documents and fully determine the scope of the Alternates generally defined therein, recognizing any modifications to his work required by any Alternate whether or not any particular trade Section is mentioned therein.
- B. Prices for Alternates shall include overhead, profit, and all other expense items incidental to the Work.
- C. Bidders shall bid on all Alternates. If the price for an Alternate results in neither an addition nor a deduction to the Base Bid sum, the words “NO CHANGE” or the figure “\$0” shall be inserted in the appropriate spaces. A blank space or a mark other than a dollar figure greater than \$0 shall be interpreted as meaning that the bidder requires neither an addition nor deduction to the Base Bid sum on account of the alternate.
- D. The Owner shall have the right to accept or reject any or all Alternates prior to signing the Agreement.

1.20 INSURANCE REQUIREMENTS

- A. The General Contractor shall purchase and maintain such insurance as will protect him from claims under worker's compensation acts and from claims for damages because of bodily injury, including death, and property damage which might arise from and during operations under this contract, whether such operations be by himself or by a Subcontractor or anyone directly or indirectly employed by either of them.
- B. General Contractor shall not commence work under this Contract until he has obtained all insurance required herein nor until such insurance has been approved by the Owner. General Contractor shall not allow any Subcontractor to commence work until the insurance required of the Subcontractor has been obtained and approved.
- C. Subcontracts: General Contractor shall either (1) require each Subcontractor to procure and to maintain during the life of his Subcontract, Subcontractor has General Liability and Property Damage Insurance of same type and in such manner as specified herein, or (2) Insure activities of his Subcontractors on his own policy.
- D. All insurance required by this Document shall be provided by a Best "A+ VIII" rated company, or companies, authorized to do business in the Commonwealth of Massachusetts and satisfactory to the owner and shall be written for not less than any limits of liability specified herein, or required by law, whichever is greater.
- E. Certificates: Certificates of Insurance acceptable to the Owner shall be submitted in triplicate to the Owner simultaneously with the execution of the Lease Agreement. Certificates shall indicate that broad form Contractual Liability coverage is in force, as well as deletions of the XCU exclusions. Certificates shall contain a provision that the insurance company will notify the Owner by registered mail at least (60) calendar days in advance of any cancellation, non-renewal, change or expiration of the policies. Certificates shall include description of coverage, effective dates and expiration dates of policies and shall clearly indicate all exclusions (other than standard policy form exclusions contained in the basic policy) which will be added to the policies provided.
- F. Deductibles: In the event of paid claims, General Contractor shall bear costs of any amounts deductible.
- G. The Owner shall be named as additional insured under all policies.
- H. Before any blasting is done, Contractor shall present evidence that blasting damage is included in his insurance coverage.

COVERAGE AND LIMITS

A. Workers' Compensation Insurance:

The General Contractor shall maintain and cause all subcontractors and lower tier contractors to maintain Workers Compensation and Employers Liability Insurance in accordance with the law and regulations of the Commonwealth of Massachusetts. The limits of liability provided shall be as follows:

Coverage A: Statutory

Coverage B: \$500,000/\$500,000/\$500,000

B. General Contractor Liability Insurance

The General Contractor shall purchase and maintain Commercial General Liability Insurance and cause all subcontractors and lower tier contractors to maintain the same throughout the term

of the Contract. Commercial General Liability Insurance must be included with all applicable broad form endorsements. Such insurance shall be on the 1986 standard insurance Service Office occurrence coverage form (or any later amendments or revisions thereto).

Limits of liability to be provided shall be as follows:

Bodily Injury and Property Damages	\$1,000,000
Personal Injury and Advertising Injury	\$1,000,000
General Aggregate	\$2,000,000
Products/Completed Operations Aggregate	\$2,000,000
Medical Payments	\$ 10,000

Coverage shall specifically include blanket contractual liability covering Contractor's indemnity obligations as contained in this Document. The City of Beverly must be added as an additional Insured as their interest may appear.

C. Business Automobile Liability:

The Contractor shall maintain and cause all subcontractors and lower tier contractors to maintain business automobile liability insurance covering all owned, non-owned, leased, rented and hired automobiles (symbol 1). The limits of liability shall be as follows:

Bodily Injury and Property Damage: \$1,000,000 per occurrence

Automobile physical damage coverage shall be at the option of General Contractor, all subcontractors and lower tier contractors. The City of Beverly shall not be liable for physical loss or damage to any owned, non-owned, leased, rented or hired automobile.

The City of Beverly must be added as an additional insured as their interest may appear.

D. Umbrella or Excess Liability

Umbrella or Excess Liability shall be provided in excess of the primary limits of liability required above. Coverage shall be at least as broad as provided in the primary coverage required.

The limits of liability to be provided shall be as follows:

\$2,000,000 per occurrence Bodily Injury and Property Damage
\$2,000,000 per occurrence Personal Injury and Advertising Injury
\$2,000,000 General Aggregate
\$2,000,000 Products and Completed Operations Aggregate

E. Builder's Risk Insurance

The General Contractor shall provide Builder's Risk Insurance. Such coverage shall include all building additions and materials used for the Work while at the construction site or on route to the construction site. The amount of Builder's Risk Coverage shall equal the total cost of the construction project.

INDEMNIFICATION

The Contractor shall take responsibility for the work and take all precautions for preventing injuries to persons and property in or about the work and shall bear all losses resulting to it on account of amount or character of the work. The Contractor shall pay or cause payment to be

made for all labor performed or furnished and for all materials used or employed in carrying out the Contract. The Contractor shall assume the defense of, and indemnify and save harmless, the Designer, the Owner, and their officers and agents from all claims relating to labor performed or furnished and materials used or employed for the work: to inventions, patents and patent rights used in and in doing the work unless injuries to any person or corporation received or sustained by or from the Contractor and its employees, and subcontractors and employees, in doing the work, or in consequence of any improper materials, implements or labor used or employed therein; and to any act, omission or neglect of the Contractor and its employees therein.

PERFORMANCE AND PAYMENT BONDS

The General Contractor shall provide the City of Beverly with a 100% performance bond and a 100% labor and materials or payment bond executed by a surety company licensed by the Commonwealth of Massachusetts.

1.21 COMMENCEMENT OF WORK AND TIME OF COMPLETION

A. Schedule, Phasing of the Work and Substantial Completion

1. On-Site Work shall begin on-site work upon receipt of the Notice to Proceed. Contractor may begin mobilizing on April 6, 2015.

2. Work shall be completed on or before June 12, 2015.

1.22 TIMELY COMPLETION AND LIQUIDATED DAMAGES

A. The Contractor shall start the work under this Contract on written notice from and on the date set by Owner. The Contractor shall start the work at the building on the date set by the Owner and shall continue, without interruption, to completion with all the practical dispatch and regularity. It is expected that the work be fully completed by June 12, 2015.

B. In case all work is not fully completed within the time specified, it shall be understood and agreed that the Contractor shall pay the Owner, not as a penalty but as liquidated damages, \$500/day for each calendar day of delay until the entire Work is substantially complete, up to and including the day of Substantial Completion as further provided in the Contract Documents.

FORM FOR GENERAL BID

To: City of Beverly, Massachusetts, Awarding Authority

From: _____ Contractor

A. LYNCH PARK BATHROOM BUILDING:

1. **BASE BID:** The undersigned proposes to furnish all labor and materials required for Project located in Beverly, Massachusetts, in accordance with the accompanying plans and specifications prepared by Brett Thibault Architect specified below, subject to additions and deductions, if applicable, according to the terms of the specifications, for the lump sum price of

_____ Dollars

(Total contract price in words, which governs)

(_____)

(Total contract price amount in numbers)

B. ADDENDA: This Bidder has received, and this bid includes, the following addenda of which receipt is hereby acknowledged:

Date	Number
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

C. SUB-DIVISION OF BID: The sub-division of the Proposed Contract Price is as follows:

Item 1: The work of the General Contractor, being all work other than that covered by Item 2:

_____ Dollars

(Total contract price in words, which governs)

(_____)

(Total contract price amount in numbers)

Item 2: The work of the Sub-Bidders Indicated by Class of Work and Name of Filed Sub-Bidder.

Trade and Name of Sub-Bidder	Amount	Bond Required
<u>Plumbing</u>		
_____	\$ _____	Yes/No
<u>Masonry</u>		
_____	\$ _____	Yes/No

Bidder shall circle YES or NO indicating whether a bond is required. Failure to circle any or all spaces in the Bonds Required will be construed as an entry of the word "NO".

D. FILED SUB BIDDERS: The undersigned agrees that each of the above named sub-bidders will be used for the work indicated at the amount stated, unless a substitution is made. The undersigned further agrees to pay the premiums for the performance and payment bonds furnished by sub-bidders as requested herein and that all of the cost of all such premiums is included in the amount set forth in Item 1 of this bid.

The undersigned agrees that if he is selected as general contractor, he will promptly confer with the awarding authority on the question of sub-bidders; and that the awarding authority may substitute for any sub-bid listed above a sub-bid filed with the awarding authority by another sub-bidder for the subtrade against whose standing and ability the undersigned makes no objection; and that the undersigned will use all such finally selected sub-bidders at the amounts named in their respective sub-bids and be in every way as responsible for them and their work as if they had been originally named in this general bid, the total contract price being adjusted to conform thereto.

E. CONTRACT: The undersigned agrees that, if he is selected as general contractor, he will within ten (10) days, Saturdays, Sundays and legal holidays excluded, after presentation thereof by the awarding authority, execute a contract in accordance with the terms of this sub-bid and furnish a performance bond and also a labor and materials or payment bond, each of a surety company qualified to do business under the laws of the Commonwealth and satisfactory to the awarding authority and each in the sum of the contract price, the premiums for which are to be paid by the general contractor and are included in the contract price.

F. Examined Conditions and Documents: The undersigned Bidder hereby declares that he has visited the site, the conditions present, and has carefully examined the Contract Documents, together with all Addenda issued, received and acknowledged below, and has familiarized himself with the legal requirements (federal, state, and local laws, ordinances, and rule and regulations) and other conditions which may affect the cost, progress or performance of Work, and has made independent investigations, deemed necessary by the Bidder.

G. LABOR: 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 and that he will comply fully with all laws and regulations applicable to awards made subject to section forty-four A of Chapter 149 of the Massachusetts General Laws.

H. CERTIFICATE OF ELIGIBILITY: The undersigned has included with this Bid his Certificate of Eligibility and Update Statement as required by the General Laws.

I. NON-COLLUSION CERTIFICATION: The undersigned 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 Paragraph, the word "person" shall mean any natural person, joint venture, partnership, corporation, or other business or legal entity.

J. OSHA COMPLIANCE CERTIFICATION: The undersigned agrees that if he is selected as the contractor, he will comply with the provisions of M.G.L. Chapter 30, Section 39S. The undersigned certifies, under penalties of perjury, that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work; that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and that all employees to be employed in the work subject to this bid have successfully

completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration.

K. TAXES: As required by MGL, Chapter 62C, s49A, the undersigned certifies that the bidder has complied with all laws of the Commonwealth relating to taxes.

L. DEBARMENT: The undersigned further certifies under penalties of perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth under provisions of Section 29F of Chapter 29, or any other applicable debarment provisions of any other Chapter of the General Laws or any rule or regulation promulgated thereunder.

M. TIME OF COMPLETION: If selected Contractor the undersigned agrees to begin and complete the work as specified in the Contract Documents.

N. AUTHORITY RIGHTS: The Bidder understands the Awarding Authorities right to reject any and all bids. Should the Invitation to Bid, Instruction to Bidders, Form For General Bid, Conditions of the Contract, Plans or Specifications require submission of special data to accompany the Bid, the Awarding Authority reserves the right to rule the bidder's failure to submit such data an informality and to receive said data subsequently, within a reasonable time as set by the Authority.

The Bidder acknowledges that no proposal may be withdrawn for 30 days, Saturdays, Sundays, and legal holidays excluded, after opening of bids per MGL c. 149, 44A(3).

Date: _____

Name of Bidder: _____

By: _____

(Signature)

(Title of Person Signing Bid)

(Business Address)

(City and State)

Telephone

Fax

E-Mail

NOTE: *This proposal must bear the written signature of the bidder. If the bidder is a partnership, the proposal must be signed by a partner. If the bidder is a corporation, the proposal must be signed by a duly authorized officer or agent of such corporation.*

FORM FOR SUB- BID

To: City of Beverly, Massachusetts, Awarding Authority

To: All General Bidders Except those Excluded:

A. LYNCH PARK BATHROOM BUILDING:

1. SECTION NUMBER:

2. SECTION NAME:

3. BASE BID: The undersigned proposes to furnish all labor and materials required for Project located in Beverly, Massachusetts, in accordance with the accompanying plans and specifications prepared by Brett Thibeault Architet specified below, subject to additions and deductions according to the terms of the specifications, for the lump sum price of”

_____ Dollars

(Total contract price in words, which governs)

(_____)
(Total contract price amount in numbers)

B. ADDENDA: This Bidder has received, and this bid includes, the following addenda of which receipt is hereby acknowledged:

Date	Number
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

C. EXLUSIONS: This Sub-Bid

May be used by any General Bidder except:

May only be used by the following General Bidders:

(To exclude general bidders, fill in the blank lines above. Do not answer “C” if no general bidders are excluded.)

D. SUB-SUB-BID LISTING: The names of all persons, firms and corporation furnishing to the undersigned labor or labor and materials for the class or classes or part thereof of work for which the provisions of the Section of the Specifications for this sub-trade require a listing in this paragraph (including the undersigned if customarily furnished by persons on his own payroll and in the absence of a contrary provision in the specifications), the name of each such class of work or part thereof and the bid price for each such class of work or part thereof are:

Name of Sub-Sub-Bidder	Class of Work	Amount
_____	_____	_____
_____	_____	_____
_____	_____	_____

(Do not give bid price for any class or part thereof furnished by the undersigned.)

The undersigned agrees that the above list of bids to the undersigned represents bona fide bids based on hereinbefore described plans, specifications, and addenda, and that, if the undersigned is awarded the contract, they will be used for the work indicated at the amounts stated, if satisfactory to the awarding authority.

E. EXECUTION OF CONTRACT: The undersigned agrees that, if he is selected as a sub-bidder, he will, within five (5) days, Saturdays, Sundays, and legal holidays excluded, after presentation of a subcontract by the General Bidder selected as the General Contractor, execute with such General Bidder a subcontract in accordance with the terms of this sub-bid and contingent upon the execution of the General Contract, and, if pre-qualification is required pursuant to G.L.c.149, §44D 3/4, or if requested so to do in the general bid by such General Bidder, who shall pay the premiums therefore, furnish a performance bond, also a labor and materials payment bond, each of a surety company qualified to do business under the laws of the Commonwealth and satisfactory to the Awarding Authority, and each in the full sum of the subcontract price.

The undersigned further agrees to be bound to the general contractor by the terms of the hereinbefore described plans, specifications, including all general conditions stated therein, and addenda, and to assume toward him all the obligations and responsibilities that he, by those documents, assumes toward the owner

F. Examined Conditions and Documents: The undersigned Bidder hereby declares that he has visited the site, the conditions present, and has carefully examined the Contract Documents, together with all Addenda issued, received and acknowledged below, and has familiarized himself with the legal requirements (federal, state, and local laws, ordinances, and rule and regulations) and other conditions which may affect the cost, progress or performance of Work, and has made independent investigations, deemed necessary by the Bidder

The undersigned agrees that the above list of bids to the undersigned represents bona fide bids based on the hereinbefore described plans, specifications and addenda and that, if the undersigned is awarded the contract, they will be used for the work indicated at the amounts stated, if satisfactory to the awarding authority.

G.CERTIFICATE OF ELIGIBILITY: The undersigned has included with this Bid his Certificate of Eligibility and Update Statement as required by the General Laws.

H. TAXES: As required by MGL, Chapter 62C, s49A, the undersigned certifies that the bidder has complied with all laws of the Commonwealth relating to taxes.

I. DEBARMENT: The undersigned further certifies under penalties of perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth under provisions of

Section 29F of Chapter 29, or any other applicable debarment provisions of any other Chapter of the General Laws or any rule or regulation promulgated thereunder.

J. LABOR: 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 and that he will comply fully with all laws and regulations applicable to awards of subcontracts subject to section 44 F of Chapter 149 of the Massachusetts General Laws.

K. NON-COLLUSION The undersigned further certifies under the penalties of perjury that this sub-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.

L. OSHA COMPLIANCE CERTIFICATION: The undersigned agrees that if he is selected as the contractor, he will comply with the provisions of M.G.L. Chapter 30, Section 39S. The undersigned certifies, under penalties of perjury, that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work; that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and that all employees to be employed in the work subject to this bid have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration.

Date: _____

Name of Bidder: _____

By: _____
(Signature)

(Title of Person Signing Bid)

(Business Address)

(City and State)

Telephone

Fax

E-Mail

NOTE: *This proposal must bear the written signature of the bidder. If the bidder is a partnership, the proposal must be signed by a partner. If the bidder is a corporation, the proposal must be signed by a duly authorized officer or agent of such corporation.*

1) CONTRACT QUALIFICATION DATA

a) List the exact name of your firm.

b) How many years has your firm been in business under its present business name and business organization structure?

_____ years

c) How many years has your firm been regularly and actively engaged, performing the type of work described in the specification.

_____ years

d) Does your firm have a twenty-four (24) hour emergency number that is staffed by a person and not an answering machine? Yes No

If yes, please list number: () _____

Indicate below three (3) references that will serve to illustrate the ability of your firm to act as the primary contractor for the contract:

<i>Client Name and Address</i>	<i>Contact Person and Telephone #</i>
1.	
2.	
3.	

SIGNATURE OF AUTHORIZED INDIVIDUAL _____

PAYMENT BOND

Bond No. _____

KNOW ALL MEN BY THESE PRESENT, that we _____, with a place of business at _____, as Principal (the "Principal"), and _____, a corporation qualified to do business in the Commonwealth of Massachusetts, with a place of business at _____ as Surety (the "Surety"), are held and firmly bound unto the City of Beverly, Massachusetts as Obligee (the "Obligee"), in the sum of _____ lawful money of the United States of America, to be paid to the Obligee, for which payment, well and truly to be made, we bind ourselves, our respective heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these present.

WHEREAS, the Principal has assumed and made a contract with the Obligee, bearing the date of _____, for the construction of _____.

NOW, THE CONDITIONS of this obligation are such that if the Principal and all subcontractors under said contract shall pay for all labor performed or furnished and for all materials used or employed in said contract and in any and all duly authorized modifications, alterations, extensions of time, changes or additions to said contract that may hereafter be made, notice to the Surety of such modifications, alterations, extensions of time, changes or additions being hereby waived, the foregoing to include, but not be limited to, any other purposes or items set out in, and to be subject to, the provisions of Massachusetts General Laws, Chapter 30, Section 39M, and Chapter 149, Section 29, as amended then this obligation shall become null and void; otherwise, it shall remain in full force and virtue.

IN WITNESS WHEREFORE, the Principal and Surety have hereto set their hands and seals this _____ day of _____.

PRINCIPAL

SURETY

[Name and Seal]

[Attorney-in-fact] [Seal]

[Title]

[Address]

Attest: _____

[Phone]

Attest: _____

PERFORMANCE BOND

Bond No. _____

KNOW ALL MEN BY THESE PRESENT, that we _____ with a place of business at _____, as Principal (the "Principal"), and _____, a corporation qualified to do business in the Commonwealth of Massachusetts, with a place of business at _____

_____ as Surety (the "Surety"), are held and firmly bound unto the City of Beverly, Massachusetts as Obligee (the "Obligee"), in the sum of _____ lawful money of the United States of America, to be paid to the Obligee, for which payment, well and truly to be made, we bind ourselves, our respective heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these present.

WHEREAS, the Principal has assumed and made a Contract with the Obligee, bearing the date of _____, for the construction of _____.

NOW THE CONDITIONS of this obligation are such that if the Principal (and all Subcontractors under said contract) shall well and truly keep and perform all the undertakings, covenants, agreement, terms and conditions of said contract on its part to be kept and performed during the original term of said contract and any extensions thereof that may be granted by the Obligee, with or without notice to the Surety, and during the life and any guarantee required under the contract, and shall also well and truly keep and perform all the undertakings, covenants, agreements, terms and conditions of any and all duly authorized modifications, alterations, changes or additions with notice to the Surety being hereby waived, then this obligation shall become null and void; otherwise, it shall remain in full force and virtue.

IN THE EVENT the Contract is abandoned by the Principal, or is terminated by the City of Beverly, Massachusetts under the applicable provisions of the Contract, the Surety hereby further agrees that the Surety shall, if requested in writing by the City of Beverly, Massachusetts promptly take such action as is necessary to complete said Contract in accordance with its terms and conditions.

IN WITNESS WHEREOF, the Principal and Surety have hereto set their hands and seals this ____ day of _____.

PRINCIPAL

SURETY

[Name and Seal]

[Attorney-in-fact] [Seal]

[Title]

[Address]

Attest: _____

[Phone]

Attest: _____

CITY OF BEVERLY

CONTRACT

DATE: _____

This Contract is entered into on, or as of, this date by and between the City of Beverly (the "City"), and

[“Contractor”]

[Address of the Contractor]

[Telephone Number]

[FAX Number]

1. This is a Contract for the procurement of the following:
2. The Contract price to be paid to the Contractor by the City of Beverly is:
3. Payment will be made as follows:

In consideration for performance of the work in accordance with the requirements of this Contract, and in accordance with all applicable statutes, the City shall pay the Contractor the prices set forth in the Contractor’s Bid/submission, a copy of which is attached hereto and incorporated by reference.

This Contract is a fixed price/fixed rate contract and therefore miscellaneous expenditures associated with the Contractor’s work on this project shall not be paid by the City. In the event that an unforeseen miscellaneous expense is incurred, the Contractor shall receive the City’s approval in writing prior to incurring the expense if it will subsequently seek payment of said expense from the City.

Payment shall be made to the Contractor for work completed in accordance with this Contract. All requests for payment shall be submitted to the City as an invoice and shall specify work completed, progress made toward completing deliverables, the number of hours worked, the classification of each employee who performed work, and the billing rate for each employee who performed work on the project.

Payment will be due thirty (30) days after receipt of the Contractor's invoice by the City for services rendered in accordance with this Contract. The City shall not make payments in advance.

If the City objects to all or part of any invoice, the City shall notify the Contractor in writing within two (2) weeks of the date of receipt of the invoice, and shall pay that portion of the invoice not in dispute within thirty (30) days after the date of receipt of the invoice.

Should it be necessary for the Contractor to engage the services of a specialized contractor or companies other than those originally proposed in the Contractor's response to the City's procurement documents, the Contractor shall take such measures only with the City's prior written approval. Charges for such services, with no mark-up, shall be billed directly to the City unless otherwise agreed upon by the parties.

No payment by the City to the Contractor shall be deemed to be a waiver of any right of the City under this Contract or a ratification by the City of any breach hereof by the Contractor.

4. Definitions:

4.1 Acceptance: All Contracts require proper acceptance of the described goods or services by the City of Beverly. Proper acceptance shall be understood to include inspection of goods and certification of acceptable performance for services by authorized representatives of the City to insure that the goods or services are complete and are as specified in the Contract.

4.2 Contract Documents: All documents relative to the Contract including (where used) Instructions to Bidders, Proposal Form, General Conditions, Supplementary General Conditions, General Specifications, Other Specifications included in Project Manual, Drawings, and all Addenda issued during the bidding period. The Contract documents are complementary, and what is called for by any one shall be as binding as if called for by all. The intention of the document is to include all labor and materials, equipment and transportation necessary for the proper performance of the Contract. The Contractor's Bid/Submission is also included in the Contract documents. In the event of any conflict among the Contract Documents, the Documents shall be construed according to the following priorities:

Highest Priority:	Amendments to Contract (if any)
Second Priority:	Contract
Third Priority:	Addenda to the Procurement Documents (if any)
Fourth Priority:	Procurement Documents
Fifth Priority:	Contractor's Bid/submission.

4.3 The Contractor: The "other party" to any Contract with the City. This term shall (as the sense and particular Contract so require) include Vendor, Contractor, Engineer, or other label used to identify the other party in the particular Contract. Use of the term "Contractor" shall be understood to refer to any other such label used.

4.4 Date of Substantial Performance: The date when the work is sufficiently complete, the services are performed, or the goods delivered, in accordance with Contract documents, as modified by approved Amendments and Change Orders.

4.5 Goods: Goods, Supplies or Materials.

4.6 SubContractor: Those having a direct Contract with the Contractor. The term includes one who furnished material worked to a special design according to the Drawings or Specifications of this work, but does not include one who merely furnishes material not so worked.

4.7 Work: The services or materials contracted for, or both.

5. Term of Contract and Time for Performance:

Work shall commence by the Contractor by April 6, 2015. This Contract and the work of the Contractor shall be completed, in accordance with the provisions of the Contract Documents on or before June 12, 2015, unless extended pursuant to a provision for extension contained in the Contract documents at the sole discretion of the City, and not subject to assent by the Contractor, and subject to the availability and appropriation of funds as certified by the City Finance Director. The time limits stated in the Contract documents are of the essence of the Contract.

6. Subject to Appropriation:

Notwithstanding anything in the Contract documents to the contrary, any and all payments which the City is required to make under this Contract shall be subject to appropriation or other availability of funds as certified by the City Accountant. In the absence of appropriation, this Contract shall be immediately terminated without liability for damages, penalties or other charges.

7. Permits and Approvals:

Permits, Licenses, Approvals and all other legal or administrative prerequisites to its performance of the Contract shall be secured and paid for by the Contractor, there will be no charge to Contractor for permits issued by the City of Beverly.

8. Termination and Default:

8.1 Without Cause. The City may terminate this Contract for convenience and without cause on seven (7) calendar days notice when in the best interests of the City by providing notice to the Contractor, which shall be in writing and shall be deemed delivered and received when given in person to the Contractor, or when received by fax, express mail, certified mail return receipt requested, regular mail postage prepaid or delivered by any other appropriate method evidencing actual receipt by the Contractor. Upon termination without cause, Contractor will be paid for services rendered to the date of termination.

8.2 For Cause. If the Contractor is determined by the City to be in default of any term or condition of this Contract, the City may terminate this Contract on seven (7) days notice by providing notice to the Contractor, which shall be in writing and shall be

deemed delivered and received when given in person to the Contractor, or when received by fax, express mail, certified mail return receipt requested, regular mail postage prepaid or delivered by any other appropriate method evidencing actual receipt by the Contractor. If any assignment shall be made by the Contractor or by any guarantor of the Contractor for the benefit of creditors, or if a petition is filed by the Contractor or by any guarantor of the Contractor for adjudication as a bankrupt, or for reorganization or an arrangement under any provision of the Bankruptcy Act as then in force and effect, or if an involuntary petition under any of the provisions of the Bankruptcy Act is filed against the Contractor and such involuntary petition is not discharged within ninety (90) days thereafter, in any event the City may terminate this Contract upon written notice to the Contractor.

8.3 Default. The following shall constitute events of a default under the Contract:

- 1) any material misrepresentation made by the Contractor to the City; 2) any failure to perform any of its obligations under this Contract including, but not limited to the following: (i) failure to commence performance of this Contract at the time specified in this Contract due to a reason or circumstance within the Contractor's reasonable control, (ii) failure to perform this Contract with sufficient personnel and equipment or with sufficient material to ensure the completion of this Contract within the specified time due to a reason or circumstance within the Contractor's reasonable control, (iii) failure to perform this Contract in a manner reasonably satisfactory to the City, (iv) failure to promptly re-perform within a reasonable time the services that were rejected by the City as unsatisfactory, or erroneous, (v) discontinuance of the services for reasons not beyond the Contractor's reasonable control, (vi) failure to comply with a material term of this Contract, including, but not limited to, the provision of insurance and non-discrimination, (vii) any other acts specifically and expressly stated in this Contract as constituting a basis for termination of this Contract, and (viii) failure to comply with any and all requirements of state law and/or regulations, and City bylaw and/or regulations.

9. The Contractor's Breach and the City's Remedies:

Failure of the Contractor to comply with any of the terms or conditions of this Contract shall be deemed a material breach of this Contract, and the City of Beverly shall have all the rights and remedies provided in the Contract documents, the right to cancel, terminate, or suspend the Contract in whole or in part, the right to maintain any and all actions at law or in equity or other proceedings with respect to a breach of this Contract, including damages and specific performance, and the right to select among the remedies available to it by all of the above.

To the fullest extent permitted by law, from any sums due to the Contractor for services, the City may keep the whole or any part of the amount for expenses, losses and damages incurred by the City as a consequence of procuring services as a result of any failure, omission or mistake of the Contractor in providing services as provided in this Contract.

10. Statutory Compliance:

10.1 This Contract will be construed and governed by the provisions of applicable federal, state and local laws and regulations; and wherever any provision of the Contract or Contract documents shall conflict with any provision or requirement of federal, state or local law or regulation, then the provisions of law and regulation shall control. Where applicable to the Contract, the provisions of the General Laws are incorporated by reference into this Contract, including, but not limited to, the following:

General Laws Chapter 30B – Procurement of Goods and Services.

General Laws Chapter 30, Sec. 39, *et seq.* - Public Works Contracts.

General Laws Chapter 149, Section 44A, *et seq.* Public Buildings Contracts.

10.2 Wherever applicable law mandates the inclusion of any term and provision into a municipal contract, this Section shall be understood to import such term or provision into this Contract. To whatever extent any provision of this Contract shall be inconsistent with any law or regulation limiting the power or liability of cities and towns, such law or regulation shall control.

10.3 The Contractor shall give all notices and comply with all laws and regulations bearing on the performance of the Contract. If the Contractor performs the Contract in violation of any applicable law or regulation, the Contractor shall bear all costs arising therefrom.

10.4 The Contractor shall keep itself fully informed of all existing and future State and federal Laws and Municipal By-laws and Regulations and of all orders and decrees of any bodies or tribunals having jurisdiction in any manner affecting those engaged or employed in the work, of the materials used in the work or in any way affecting the conduct of the work. If any discrepancy or inconsistency is discovered in the Drawings, Specifications or Contract for this work in violation of any such law, by-law, regulation, order or decree, it shall forthwith report the same in writing to the City. It shall, at all times, itself observe and comply with all such existing and future laws, by-laws, regulations, orders and decrees; and shall protect and indemnify the City of Beverly, and its duly appointed agents against any claim or liability arising from or based on any violation whether by him or its agents, employees or subcontractors of any such law, by-law, regulation or decree.

11. Conflict of Interest:

Both the City and the Contractor acknowledge the provisions of the State Conflict of Interest Law (General Laws Chapter 268A), and this Contract expressly prohibits any activity which shall constitute a violation of that law. The Contractor shall be deemed to have investigated the application of M.G.L. c. 268A to the performance of this Contract; and by executing the Contract documents the Contractor certifies to the City that neither it nor its agents, employees, or subcontractors are thereby in violation of General Laws Chapter 268A.

12. Certification of Tax Compliance

This Contract must include a certification of tax compliance by the Contractor, as required by General Laws Chapter 62C, Section 49A (Requirement of Tax Compliance by All Contractors Providing Goods, Services, or Real Estate Space to the Commonwealth or Subdivision).

13. Non-Discrimination

The Contractor will carry out the obligations of this Contract in full compliance with all of the requirements imposed by or pursuant to General Laws Chapter 151B (Law Against Discrimination) and any executive orders, rules, regulations, and requirements of the Commonwealth of Massachusetts as they may from time to time be amended. The Contractor shall not discriminate against or exclude any person from participation herein on grounds of race, color, religious creed, national origin, sex, gender identity, sexual orientation (which shall not include persons whose sexual orientation involves minor children as the sex object), age, genetic information, ancestry, children, marital status, veteran status or membership in the armed services, the receiving of public assistance, and handicap. The previous sentence shall include, but not be limited to, the following: advertising, recruitment; hiring; rates of pay or other forms of compensation; terms; conditions or privileges of employment; employment upgrading; transfer; demotion; layoff; and termination. The Contractor shall take affirmative actions to insure that applicants are employed, and that employees are treated during their employment, without regard to race, color, religious creed, national origin, sex, gender identity, sexual orientation (which shall not include persons whose sexual orientation involves minor children as the sex object), age, genetic information, ancestry, children, marital status, veteran status or membership in the armed services, the receiving of public assistance, and handicap.

14. Assignment:

Assignment of this Contract is prohibited, unless and only to the extent that assignment is provided for expressly in the Contract documents.

15. Condition of Enforceability Against the City:

This Contract is only binding upon, and enforceable against, the City if: (1) the Contract is signed by the Mayor or his designee; and (2) endorsed with approval by the City Accountant as to appropriation or availability of funds; (3) endorsed with approval by the City Solicitor as to form and (4) otherwise procured in accordance with all applicable federal, state, and local laws, rules, and regulations.

16. Corporate Contractor:

If the Contractor is a corporation, it shall endorse upon this Contract (or attach hereto) its Clerk's Certificate certifying the corporate capacity and authority of the party signing this Contract for the corporation. Such certificate shall be accompanied by a letter or other instrument stating that such authority continues in full force and effect as of the date the Contract is executed by the Contractor. This Contract shall not be enforceable against the City of Beverly unless and until the Contractor complies with this section.

The Contractor, if a foreign corporation, shall comply with the provisions of the General Laws, Chapter 181, Sections 3 and 5, and any Acts and Amendments thereof, and in addition thereto, relating to the appointment of the Commissioner of Corporations as its attorney, shall file with the Commissioner of Corporations a Power of Attorney and duly

authenticated copies of its Charter or Certificate of Incorporation; and said Contractor shall comply with all the laws of the Commonwealth.

17. Liability of Public Officials:

To the full extent permitted by law, no official, employee, agent or representative of the City of Beverly shall be individually or personally liable on any obligation of the City under this Contract.

18. Indemnification:

The Contractor shall indemnify, defend and save harmless the City, the City's officers, agents and employees, from and against any and all damages, liabilities, actions, suits, proceedings, claims, demands, losses, costs, expenses, recoveries and judgments of every nature and description (including reasonable attorneys' fees) that may arise in whole or in part out of or in connection with the work being performed or to be performed, or out of any act or omission by the Contractor, its boards, commissions, committees, employees, agents, subcontractors, material men, assigns and anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by any party indemnified hereunder, or for any violation of federal, state, or local statute, by-law, or ordinance by the Contractor, its employees, agents, subcontractors, material men, and anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable.. The Contractor further agrees to reimburse the City for damage to its property caused by the Contractor, its employees, agents, subcontractors or material men, and anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, including damages caused by his, its or their use of faulty, defective, or unsuitable material or equipment, unless the damage is caused by the City's gross negligence or willful misconduct. The existence of insurance shall in no way limit the scope of the Contractor's indemnification under this contract.

19. Workers Compensation Insurance:

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

Failure to provide and continue in force such insurance during the period of this Contract shall be deemed a material breach of this Contract, shall operate as an immediate termination thereof, and Contractor shall indemnify the City for all losses, claims, and actions resulting from the failure to provide the insurance required by this Article.

The Contractor shall furnish to the City evidence of such insurance prior to the execution of this Contract before the same shall be binding on the parties thereto, except if specifically waived by the City.

20. Documents, Materials, Etc.

Any materials, reports, information, data, etc. given to or prepared or assembled by the Contractor under this Contract are to be kept confidential to the extent permitted by law and shall not be made available to any individual or organization by the Contractor

(except agents, servants, or employees of the Contractor) without the prior written approval of the City, except as otherwise required by law. The Contractor shall comply with the provisions Chapter 66 *et seq.* of the General Laws of Massachusetts as it relates to public documents, and all other state and federal laws and regulations relating to confidentiality, security, privacy and use of confidential data.

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

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

21. Audit, Inspection and Recordkeeping

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

22. Payment

The City agrees to make all reasonable efforts to pay to the Contractor the sum set forth in the Contractor's bid or proposal within thirty (30) days of receipt of an invoice detailing the work completed and acceptance from the City of the work completed.

23. Waiver and Amendment

Amendments, or waivers of any additional term, condition, covenant, duty or obligation contained in this Contract may be made only by written amendment executed by all signatories to the original Agreement, prior to the effective date of the amendment.

To the extent allowed by law, any conditions, duties, and obligations contained in this Contract may be waived only by written Agreement by both parties.

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

24. Forum and Choice of Law

This Contract and any performance herein shall be governed by and be construed in accordance with the laws of the Commonwealth of Massachusetts, regardless of choice of

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

25. Notices

Any notice permitted or required under the provisions of this Contract to be given or served by either of the parties hereto upon the other party hereto shall be in writing and signed in the name or on the behalf of the party giving or serving the same. Notice shall be deemed to have been received at the time of actual service or three (3) business days after the date of a certified or registered mailing properly addressed. Notice to the Contractor shall be deemed sufficient if sent to the address set forth in the Contract and to the City of Beverly by being sent to the City Solicitor, Beverly City Hall, 191 Cabot Street, Beverly, Massachusetts 01915.

26. Binding on Successors:

This Contract shall be binding upon the Contractor, its assigns, transferees, and/or successors in interest (and where not corporate, the heirs and estate of the Contractor).

27. Complete Contract/Severability:

This instrument, together with its endorsed supplements, and the other components of the contract documents, constitutes the entire contract between the parties, with no agreements other than those incorporated herein. If any provision, or portion thereof, of this Contract shall be adjudged to be invalid or unenforceable by final judgment or order of a court of competent jurisdiction the remaining provisions shall continue in effect to the extent permitted by law.

28. Independent Contractor

The Contractor shall provide services under this Contract as an independent contractor with the City and not as an employee of the City. No employee, agent or representative of the Contractor shall be entitled to receive any benefits of employment with the City, including without limitation salary, overtime, vacation pay, holiday pay, sick leave, health insurance, life insurance, pension or deferred compensation.

29. Use of Alcohol and Controlled Substances Prohibited/No Smoking

The Contractor hereby acknowledges that the use of alcoholic beverages, narcotics, and mood altering substances, except for current valid, legal prescriptions, by any officer, employee, agent, or representative of the Contractor is prohibited on City property which is the subject matter of this Agreement and during all hours of work under this Agreement. If any officer, employee, agent, or representative of the Contractor violates the foregoing provision, the City shall have the right to order that such officer, employee, agent, or representative of the Contractor shall not be permitted to return to work on this Agreement. Under such circumstances, the Contractor shall promptly remove the subject officer, employee, agent, or representative from the job site and shall not permit the subject officer, employee, agent, or representative to perform further work in conjunction with this Agreement. Pursuant to Massachusetts General Laws (M.G.L.) c. 270, §22, the Commonwealth of Massachusetts Smokefree Workplace Law, the Contractor, its officers,

employees, agents, and representatives shall refrain from smoking and from using tobacco products in any public building in the City.

30. Supplemental Conditions

The foregoing provisions apply to all contracts to which the City of Beverly shall be a party. One of the following "Supplements" *must* be "checked" as applicable to this Contract, shall be attached hereto, and shall in any event apply as the nature of the Contract requires. The Supplement contains additional terms governing the Contract:

GOODS

SUPPLEMENT "G" - Applicable to Contracts for the procurement of Goods (governed by the provisions of General Laws Chapter 30B)

SERVICES

SUPPLEMENT "S" - Applicable to Contracts for the procurement of Services (governed by the provisions of General Laws Chapter 30B)

CONSTRUCTION

SUPPLEMENT "C" - Applicable to Contracts for Construction

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

THE CITY

THE CONTRACTOR

Mayor Date

Company Name

Signature Date

Print Name & Title

APPROVED AS TO FORM ONLY AND NOT AS TO SUBSTANCE:

City Solicitor Date

CERTIFICATION AS TO AVAILABILITY OF FUNDS

Finance Director Date

SUPPLEMENT “C”

[] CONSTRUCTION

SUPPLEMENT “C” - Applicable to Contracts for the construction of:

(1) Public Buildings and Public Works

(

(2) Public Buildings

(governed by the provisions of General Laws Chapter 149, § 44A, et seq.); and

(3) Public Works

(governed by the provisions of General Laws Chapter 30, §39M, et

seq)

1. This form supplements the City of Beverly “Contract and General Conditions” and applies only to contracts for the construction, reconstruction, alteration, remodeling or repair of public works or public buildings.
2. Wherever the law requires one contracting with a city or town to be bonded, such obligation shall be understood to be a term and condition of this Contract. The Contractor agrees to secure such bond (where required) in the form required by the City and provide an original thereof to the City prior to the commencement of performance.
3. Equality:
 - 3.1. In the case of a closed Specification written for a specific item or items to be furnished under the Base Bid, such specifications shall, as applicable, be in compliance with the Massachusetts General Laws, Chapter 30, Section 39M and Chapter 149, Sec. 44A et seq.
 - 3.2. Where the name of an item, material or manufacturer is mentioned in the Specifications or on the Drawings, except as above noted, the intent is to establish a standard and in no way should be construed to exclude any item or manufacturer not mentioned by name, but whose product meets the Specifications as to design, utility and quality. Final decision shall rest with the Project Representative as to its acceptability.
- 4.1 DELETED>
- 4.2 With regard to change orders requested by the Contractor, upon request of the City or Architect, the Contractor shall, without cost to the City, submit to the Architect and the City,

in such form as the Architect may require, a “Change Order Proposal” including a full description of the character and scope of work involved in any proposed extra Work or change in Work, an accurate written estimate of the cost of such proposed change including all the elements of pricing in appropriate detail, and an explanation of the impact of the proposed Change on the construction schedule. The cost estimate shall indicate the quantity and unit cost of each item of material or other product and the number of hours of Work and hourly rate for each class of labor as well as the description and amounts of all other costs chargeable. If required by the Architect or Owner, in order to establish the exact cost of new Work added or of previously required Work deleted, the Contractor shall obtain and furnish to the Architect bona fide proposals (on letterhead) from Subcontractors, Sub-subcontractors or recognized suppliers for furnishing labor and materials included in such Work, including the same supporting information. The Contractor shall promptly revise and resubmit such cost estimate if the Architect or the Owner determines that it is not in compliance with the requirements of this Contract, or that it contains errors of fact or mathematical errors.

The Contractor shall indicate in the Change Order Proposal any extension of the Contract Time that the Contractor believes is necessary if the change or extra work is ordered or that the Contractor believes it is entitled to for any other reason. If the Contractor claims an extension of the Contract time, the Contractor shall provide in the Change Order Proposal a full explanation of the need for a time extension with supporting documentation, including a schedule impact analysis, in form acceptable to the City and Architect indicating the activities affected and overall impact on the schedule of the proposed change. Requests for substitutions or other changes initiated by Contractor shall be submitted with a Change Order Proposal in accordance with all the provisions of this Contract.

Change Order Proposals shall be furnished promptly so as to occasion no delay in work, and shall be furnished at the Contractor’s expense. By submitting a Change Order Proposal, the Contractor shall be deemed to certify in writing that the Change Order Proposal includes all work affected by the change, that the cost estimate indicated in the Change Proposal includes all direct, supplemental, indirect, consequential, serial and cumulative costs and delays, as applicable, and that those costs and delays would be necessarily incurred if the change or extra work is ordered, despite the Contractor’s commercially reasonable and diligent efforts to mitigate them. The Contractor shall cooperate fully with the City and Architect to provide sufficient substantiation and explanation of costs and schedule impacts to allow the City and the Architect to reasonably evaluate the Change Order Proposal.

4.3. Any adjustment to the Contract sum as a result of a Change Order Proposal, shall be based on one of the following methods, as selected by the Owner:

- (a) By unit prices stated in the Contract Documents or otherwise mutually agreed upon
- (b) By Cost and Percentage estimated by the Contractor as provided in this Contract and accepted by the City, the Contractor’s estimate shall become a fixed price which shall not be changed by any variation in the actual cost of executing the work covered by the change
- (c) By actual Cost determined after the work covered by the change is completed, plus percentage

- (d) By determination by the Architect or the fair value of the work covered by the change

4.4 As used in this following section, “Cost” shall mean the estimated or actual net increase or decrease in cost to the Contractor, Sub-Contractor, or Sub-subcontractor for performing the work covered by the change, including actual payments for materials, equipment rentals, expendable items, wages and associated taxes and benefits to workers, insurance, bonds and other provable direct costs, but not including any administrative, accounting or expediting costs, or other indirect or overhead costs, or any wages or benefits of the Contractor’s job superintendent or other supervisory or management personnel, or any amount for profit or fee to the Contractor, Sub-Contractor or Sub-subcontractor.

4.5 “Percentage” shall mean an allowance calculated as a percentage of Cost to be added to or subtracted from the Contract Sum to cover overhead and profit and all other expenses (including but not limited to the salary and benefits of the Contractor’s job superintendent and other supervisory and management personnel) which are not included in the cost of the work involved in the change.

4.5.1. Percentage for extra work performed by a Subcontractor shall be 15% of the actual net increase in the cost of the work, whether performed by the Subcontractor’s own forces or by Sub-subcontractor’s. In no event shall the aggregate of all percentage allowances for overhead and profit for Subcontractor’s and Sub-subcontractor’s, regardless of tier, exceed 15% of the actual, direct costs for labor, materials and equipment incorporated in the work.

4.5.2. Percentage for the Contractor shall be 15 % of any net increase in cost of work performed by the Contractor’s own forces and 5% of any net increase in cost of work performed for the Contractor by Subcontractor’s.

4.5.3. In the case of changes that result in a credit to the City for work deleted, Percentage for a Subcontractor shall be 10% of any net decrease in the cost of the work, whether performed by the Subcontractor’s own forces or by Sub-subcontractor’s; and percentage for the Contractor shall be 10% of any net decrease in cost of work performed by the Contractor’s own forces and 5% of any net decrease in cost of work performed for the Contractor by Subcontractors.

4.5.4. Related changes may be aggregated into a single Change Order Proposal when determined appropriate by the Architect, and in such case percentage shall be calculated based on the cumulative net increase or decrease in cost, if any.

4.5.5. For purposes of applying the percentage allowances described in this section, costs of insurance, bond premiums and taxes shall be excluded from the cost of the work.

5. The Contractor will carry out the obligations of this contract in full compliance with all of the requirements imposed by or pursuant to General Laws Chapter 151, Sec. 1, et seq., the (Minimum Wage Law) and any executive orders, rules, regulations, and requirements of the Commonwealth of Massachusetts as they may from time to time be amended. The Contractor will at all times comply with the wage rates as determined by the Commissioner of the Department of Labor and Industries, under the provisions of General Laws Chapter 149, Sections 26 and 27D (Prevailing Wage), as shall be in force and as amended.

6. The Contractor shall continuously maintain adequate protection of all work from damage and shall protect the property of the City and others, including adjacent property, from injury or loss arising in connection with the Contract. The Contractor shall make good any such damage, injury or loss, except as may be directly due to errors in the Contract Documents or caused by agents or employees of the City, or due to causes beyond the Contractor's control and not the Contractor's fault or negligence.
7. The Contractor shall take all necessary precautions for the safety of employees on the work, and shall comply with all applicable provisions of Federal, State and local laws and codes to prevent accidents or injury to persons on, about or adjacent to the premises where the work is being performed. The Contractor will erect and properly maintain at all times, as required by the conditions and progress of the work, all necessary safeguards for the protection of workers and the public, shall post danger signs warning against the hazards created by such features of construction such as pits, protruding nails, hosts, well holes, elevator hatchways, scaffolding, window openings, stairways and falling materials; and shall designate a responsible member of its organization on the work, whose duty shall be the prevention of accidents.
8. The City shall at all times have access to the work wherever it is in preparation or progress and the Contractor shall provide suitable accommodations for such access.
9. The Contractor shall appoint a competent superintendent and foreman and any necessary assistants, all of whom shall be satisfactory to the City. If the City in its sole discretion determines that the construction superintendent, foreman, or assistants are unacceptable to the City, then upon seven days notice from the City, the Contractor shall replace such person or persons with people acceptable to the City.
10. The Contractor shall give efficient supervision to the work, using its best skill and attention. The Contractor shall carefully study and compare the drawings, specifications and other instructions and shall at once report to the City any error, inconsistency or omission which shall be discovered. Included in this responsibility shall be supervision of all work performed by subcontractors on the work.
11. If the Contractor should neglect to prosecute the work properly, or fail to perform the contract or any of its provisions, the City, upon three days written notice, may, without prejudice to any other remedy it may have, make good such deficiencies and may deduct the cost thereof from the payment then or thereafter due the Contractor.
12. Inspection by the City's Project Representative
 - 12.1. The City shall have the right to designate a Project Representative who may make periodic visits to the site to familiarize the City generally with the progress and quality of the work, and to determine in general if the work is proceeding in accordance with the Contract Documents. The Project Representative will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the work, and will not be responsible for the Contractor's failure to carry out the construction work in accordance with the Contract Documents. During such visits and on the basis of these observations while at the site, the Project

Representative will keep the City informed on the progress of the work, will endeavor to guard the City against defects and deficiencies in the work of contractors, and may condemn structural work as failing to conform to the Contract Documents. The Project Representative shall have authority to act on behalf of the City only to the extent expressly delegated by the City, which shall be shown to the Contractor, and shall have authority to stop the work whenever such stoppage may reasonably be necessary to insure the proper execution of the Contract.

12.2. In connection with the work, the Project Representative shall not be responsible for construction methods, means, techniques, sequences or procedures employed by the Contractor or the Contractor's safety programs, requirements, regulations, or precautions.

13. Decisions of the Project Representative

13.1. The Project Representative shall, within a reasonable time, make decisions on all claims of the City or the Contractor and on all other matters relating to the execution and progress of the structural work or the interpretation of the Contract Documents.

13.2. The Project Representative's decision, in matters relating to the project, shall be final, if within the terms of the Contract Documents.

13.3. If, however, the Project Representative fails to render a decision within ten days after the parties have presented their evidence, either party may then avail itself of the remedies provided in this contract or available to it by law. If the Project Representative renders a decision after such remedies have commenced, such decision may be entered as evidence but shall not disturb or interrupt such proceedings except where such decision is acceptable to the parties concerned.

14.1 Use of Premises by the Contractor:

14.1. The Contractor shall confine its apparatus, the storage of materials and the operations of its workmen to limits indicated by law, by-laws, permits or directions of the City and shall not unreasonably encumber the premises with its materials.

14.2. The Contractor shall not load or permit any part of the structure to be loaded with a weight that will endanger its safety.

15. Maintenance of Premises:

The Contractor shall at all times keep the premises free from accumulation of waste materials or rubbish caused by its employees or work, and at the completion of the work it shall remove all its rubbish from and about the work site and all its tools, scaffolding and surplus materials and shall leave its work "broom-clean", or its equivalent, unless more exactly specified. In case of dispute, the City may remove the rubbish and charge the cost to the several contractors, as the City shall determine to be just.

16. Right to Terminate

If the Contractor should (1) be adjudged a bankrupt, (2) make a general assignment for the benefit of creditors, (3) have a receiver appointed on account of its insolvency, (4)

persistently or repeatedly refuse or fail to supply enough personnel and resources to perform the contract, (5) fail to make prompt payment to subcontractors or to providers of materials or labor, (6) persistently disregard laws and regulations or lawful directives of the City, or (7) be guilty of a substantial violation of any provision of the Contract, then the City may, without prejudice to any other right or remedy and after giving the Contractor (or any surety) seven (7) days written notice and opportunity to cure, terminate the contract and the employment of the Contractor and take possession of the premises and of all materials, tools and appliances thereon and finish the work by whatever method it deems appropriate.

In such cases, the Contractor shall not be entitled to receive any further payment until the work is finished. If the unpaid amount owed to the Contractor for work already completed shall exceed the expense of finishing the work, including compensation for additional architectural, managerial, legal and administrative services, such excess shall be paid to the Contractor. If such expenses shall exceed such unpaid balances, the Contractor shall pay the difference to the City.

The Contractor shall not be relieved of liability to the City by virtue of any termination of this contract, and any claim for damages against the Contractor relating to the Contractor's performance under this contract shall survive any termination hereunder.

Notwithstanding any other provision of this Agreement, the City reserves the right at any time in its absolute discretion to suspend or terminate this Agreement in whole or in part for its convenience upon seven days written notice to the Contractor. The City shall incur no liability by reason of such termination except for the obligation to pay compensation for all work performed by the Contractor and accepted by the City to the termination date.

17. Progress Payments:

17.1. The Contractor shall submit to the City an itemized Application for Payment, supported to the extent required by the City by invoices or other vouchers, showing payments for materials and labor, payments to Subcontractors and such other evidence of the Contractor's right to payment.

17.2. The Contractor shall, before the first application, submit to the City a schedule of values of the various parts of the work, including quantities aggregating the total sum of the Contract, divided so as to facilitate payments to Subcontractors, made out in such form as the City and the Contractor may agree upon, and, if required, supported by such evidence as to its correctness. This schedule, when approved by the City, shall be used as a basis for payment, unless it is found to be in error. If applying for payments, the Contractor shall submit a statement based upon this schedule.

17.3 All progress payments shall be governed by M.G.L. c. 30, §39K for public building construction contracts and by M.G.L. c. 30, §39G for public works construction contracts. The provisions of both statutes are incorporated herein by reference.

17.4 This Contract shall be considered to include in their entirety all terms respecting workers' compensation insurance and other terms required to be included in it by Chapter 152 of the Massachusetts General Laws, as amended, and applicable provisions of any other laws, including, without limitation, Chapter 30, Sections 39F, 39G, 39K, 39L, 39M, 39N, 39O, 39P, and 39R of the Massachusetts General Laws, as amended, and Chapter 149, Sections 34, 34A, and 34B of the Massachusetts General Laws, as amended, and Chapter 82, Section 40 of the Massachusetts General Laws, as amended, as though such terms were set forth in their entirety herein.

18. Withholding of Payments

18.1. The City may withhold or, on account of subsequently discovered evidence, nullify the whole or part of any payment to such extent as may be necessary in its reasonable opinion to protect the City of Beverly from loss on account of:

18.1.1. Defective work not remedied.

18.1.2. Claims filed or reasonable evidence indicating probable filing of claims.

18.1.3. Failure of the Contractor to make payments properly to Subcontractors or for material or labor.

18.1.4. A reasonable doubt that the Contract can be completed for the balance then unpaid.

18.1.5. Damage to another contractor.

18.1.6. Delays resulting in liquidated damages.

18.2. Withholding of payments shall be in strict compliance with statutory requirements.

19. Claims by Contractor and Liability of City

All claims by the Contractor against the City shall, unless otherwise provided by law, be initiated by a written claim submitted to the City no later than seven (7) calendar days after the event or the first appearance of the circumstances causing the claim. The claim shall set forth in detail all known facts and circumstances supporting the claim. The Contractor shall continue its performance under this contract regardless of the submission or existence of any claims.

The limit of liability of the City under this Agreement is limited to the compensation provided herein for work actually performed, and shall in no event include liability for delays or for incidental, special or consequential damages or lost profits or for damages or loss from causes beyond the City's reasonable control.

20. Liquidated Damages:

Because both parties recognize (1) that the time for completion of this Contract is of the essence, (2) that the City will suffer loss if the work is not completed within the contract time specified, plus any extension thereof allowed in accordance with the provisions of

this contract, and (3) the delays, expense and difficulties involved in a legal proceeding to determine the actual loss suffered by the City if the work is not completed in time, it is agreed that the Contractor will pay the City as liquidated damages representing an estimate of delay damages, not as a penalty, the sum of Five Hundred Dollars (\$500.00) per day for each calendar day of delay until the work is completed, whether the work is completed by the Contractor or some other person. The City's right to impose liquidated damages shall in no way prohibit or restrict the City's right to bring a legal action for damages in lieu of or in addition to its option to impose liquidated damages. The City may deduct any liquidated damages from money due the Contractor, and if such payment is insufficient to cover the liquidated damages, then the Contractor shall pay the amount due.

21. The Contractors' Mutual Responsibility:

Should the Contractor cause damage to any separate subcontractor on the work, the Contractor agrees, upon due notice, to settle with such contractor by agreement, or by recourse to remedies provided by law or by the provisions of the contract. If such separate contractor sues the City on account of any damage alleged to have been sustained, the City shall notify the Contractor, who shall defend such proceedings at the City's expense and, if any judgment against the City arises therefrom, the Contractor shall pay or satisfy it and pay all costs incurred by the City.

22. Separate Contracts:

22.1. The City reserves the right to let other Contracts in connection with this work under similar General Conditions. The Contractor shall afford other contractors reasonable opportunity for the introduction and storage of their materials and the execution of their work, and shall properly connect and coordinate its work with theirs.

22.2. If any part of the Contractor's work depends, for proper execution or results, upon the work of any other contractor, the Contractor shall inspect and promptly report to the City any defects in such work that render it unsuitable for such proper execution and results. Failure of the Contractor to so inspect and report shall constitute an acceptance of the other contractor's work as fit and proper for the reception of its work except as to defects which may develop in the other contractor's work after the execution of its work.

22.3. To insure the proper execution of its subsequent work, the Contractor shall measure work already in place and shall at once report to the City any discrepancy between the executed work and the Drawings.

23. Subcontracts:

23.1. All Subcontracts shall be awarded in conformity with the requirements of the General Laws, Commonwealth of Massachusetts, Chapter 149, Sections 44A to 44L, inclusive.

23.2. The Contractor agrees that it is as fully responsible to the City for the acts and omissions of its Subcontractors and of persons either directly or indirectly

employed by them, as it is for the acts and omissions of persons directly employed by it.

23.3. Nothing contained in the Contract Documents shall create any contractual relationship between any Subcontractor and the City.

24. Contractor-Subcontractor Relations:

The Contractor agrees to bind every Subcontractor and every Subcontractor agrees to be bound by the terms of the Agreement, the General Conditions of the Contract, the Supplementary General Conditions, the Drawings and Specifications, as far as applicable to its work, including the provisions of the General Laws, Commonwealth of Massachusetts, Chapter 149, Section 44A, et seq.

25. Indemnification:

25.1. The Contractor shall indemnify, defend and save harmless the City, its boards, commissions, committees, officers, agents, assigns, and employees from and against any and all damages, liabilities, actions, suits, proceedings, claims, demands, losses, recoveries and judgments of every nature and description (including reasonable attorneys' fees) brought or recovered against them that may arise in whole or in part out of or in connection with the work being performed or to be performed, or out of any act or omission by the Contractor, its employees, agents, subcontractors, material men, and anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by any party indemnified hereunder, or for any violation of federal, state, or local statute, by-law, or ordinance by the Contractor, its employees, agents, subcontractors, material men, and anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable. The Contractor further agrees to reimburse the City for damage to its property caused by Contractor, its employees, agents, subcontractors or material men, and anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, including damages caused by his, its or their use of faulty, defective or unsuitable material or equipment, unless the damage is caused by the City's gross negligence or willful misconduct. The existence of insurance shall in no way limit the scope of the Contractor's indemnification under this Contract.

25.2. In any and all claims against the City or any of their agents or employees by any employee of the Contractor, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the indemnification obligation under this paragraph shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Contractor or any Subcontractor under Workmen's Compensation Acts, disability benefit acts or other employee benefit acts.

25.3. The intent of the Specifications regarding insurance is to specify minimum coverage and minimum limits of liability acceptable under the Contract. However, it shall be the Contractor's responsibility to purchase and maintain insurance of such character and in such amounts as will adequately protect it and the City from and

against all claims, damages, losses and expenses resulting from exposure to any casualty liability in the performance of the Work.

25.4. Neither the City, nor any of its officers, employees, boards, committees, commissions, agents and representatives, shall be under any personal obligation or incur any personal liability by reason of this Contract, the execution thereof or anything relating thereto which arises out of the breach or violation of any provision of this Contract, or the violation of any Federal, Massachusetts or local statute, by-law, rule, regulation, order or directive, or which relates to personal injury or property damage suffered by the Contractor or its employees, regarding the subject matter of this Contract.

26. The Contractor's Insurance:

26.1. The Contractor shall purchase and maintain such insurance as will protect him from claims set forth below which may arise out of or result from the Contractor's operations under the Contract, whether such operations be of himself or by any subcontractor or by anyone directly or indirectly employed by any of them or by anyone for whose acts any of them may be liable.

26.1.1. Claims under MA Workmen's Compensation/Employer Liability, disability benefit and other similar employee benefit acts.

26.1.2. Claims for damage because of bodily injury, sickness or disease, or death of any person other than his employees, and claims insured by usual personal injury liability coverage.

26.1.3. Claims for damage because of injury to or destruction of tangible property, including loss of use resulting there from.

26.1.4. Claims for damages because of bodily injury, death of a person or property, including, but not limited to, claims arising out of ownership, maintenance or use of a motor vehicle.

26.1.5. Claims involving contractual liability associated with the Contractor's obligations under this contract.

26.1.6. If applicable, any professional claims due to an error or omission.

26.1.7. Claims involving environmental impairment liability due to operations, completed operations or abatement activities.

26.2. The insurance required by the above shall be written for not less than the following minimum limits of liability:

1. Worker's Compensation and Employer's Liability: with limits of \$500,000.00 for Employer Liability or with the MA Statutory Endorsement.

Comprehensive General Liability Insurance (Broad Form)

Bodily Injury	\$1,000,000 Each Person/Each Occurrence \$2,000,000 General Aggregate per project Or a Combined Single Limit of \$2,000,000
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Property Damage	\$1,000,000 Each Occurrence
-----------------	-----------------------------

\$2,000,000 General Aggregate per project
Or a Combined Single Limit of \$2,000,000

Automobile Liability Insurance

Bodily Injury \$1,000,000 Each Person/Each Occurrence
Or a Combined Single Limit of \$1,000,000

Property Damage \$1,000,000 Each Occurrence
Or a Combined Single Limit of \$1,000,000

Excess Liability (Umbrella) \$2,000,000

26.3. The above insurance policies shall also be subject to the following requirements:

26.3.1. Insurance coverage for the Contractor's Comprehensive General Liability, as hereinafter specified under Paragraph entitled "Protective Liability Insurance" shall be written by one and the same insurance company to avoid the expense of duplicate and/or overlapping coverage and to facilitate and expedite the settlement of claims.

26.3.2. Certificates of Insurance acceptable to the City shall be addressed to and filed with the City prior to commencement of the work. Renewal certificates shall be addressed to and filed with the City at least ten (10) days prior to the expiration date of required policies.

26.3.3. No insurance coverage shall be subject to cancellation without at least thirty (30) days prior written notice forwarded by registered or certified mail to the City. The City shall also be notified of the attachment of any restrictive amendments to the policies.

26.3.4. All Certificates of Insurance shall be on the "MIIA" or "ACORD" Certificate of Insurance form, shall contain true transcripts from the policies, authenticated by the proper officer of the Insurer, evidencing in particular those insured, the extent of coverage, the location and operations to which the insurance applies, the expiration date and the above-mentioned notice clauses.

26.3.5. All premium costs shall be the sole responsibility of the Contractor.

26.3.6. All insurance shall be written on an occurrence basis. Coverages shall be maintained without interruption from date of the Contract until date of final payment and termination of any coverage required to be maintained after payment.

27. Protective Liability Insurance:

- 27.1. The Contractor shall purchase and maintain such insurance as described in the preceding paragraph as will protect the City from claims which may arise from operations under the Contract, including operations performed for the named insureds by independent contractors and general inspection thereof by the named insureds.
- 27.2. The Contractor shall also purchase and maintain such insurance as will protect the City against Automobile Non-Ownership Liability in connection with the Contractor's operations under the Contract, whether such operations be by itself or by any Subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable.
- 27.3. The limits of liability for coverage required under the preceding paragraphs shall be as specified under the provisions hereof governing the Contractor's General Liability Policy.
- 27.4. The City shall be named as an additional insured on the above referenced automobile, comprehensive general liability, and excess liability Policies, and the Contractor's insurance shall be the primary coverage. The Contractor shall provide the City with rider(s) or endorsement(s) evidencing such additional insured status. The cost of such insurance, including required endorsements and amendments, shall be the sole responsibility of the Contractor.

28. Liens:

Neither the Final Payment nor any part of the retained percentage shall become due until the Contractor, if required, shall deliver to the City a complete release of all liens arising out of the Contract, or receipts in full in lieu thereof and, if required in either case, an affidavit that as far as it has knowledge or information, the releases and receipts include all the labor and material for which a lien could be filed. The Contractor shall comply with all statutory provisions of the General Laws of the Commonwealth of Massachusetts with regard to liens, Chapter 254 and 149 as amended (as a minimum requirement).

29. Guarantees:

29.1 The Contractor guarantees and warrants to the City that all labor furnished under this Contract will be competent to perform the tasks undertaken, that the product of such labor will yield only first-class results, that materials and equipment furnished will be of good quality and new unless otherwise permitted by this Contract, and that the Work will be of good quality, free from faults and defects and in strict conformance with this Contract. All Work not conforming to these requirements may be considered defective.

29.2. If at any time any part of the work constructed under the terms of this contract shall in the opinion of the Mayor or his designee require repairing due to defective work or materials furnished by the Contractor, he may notify the Contractor in writing to make the required repairs. If the Contractor shall neglect to start such repairs within ten days of the date of giving it notice thereof and to complete the same to the satisfaction of the Mayor or his designee with reasonable dispatch, then the latter may employ other persons

to make such repairs. The City shall charge the expense thereof to the Contractor and may use any moneys still retained to pay for the same, and if such sum is insufficient, the Contractor shall be obligated to pay the balance thereof.

29.3. All guarantees and warranties required in the various Sections of the Specifications which originate with a Subcontractor or Manufacturer must be delivered to the City before final payment to the Contractor may be made for the amount of that subtrade or for the phase of work to which the guarantee or warranty relates. The failure to deliver a required guarantee or warranty shall be held to constitute a failure of the Subcontractor to fully complete his work in accordance with the Contract Documents. The Contractor's obligation to correct work is in addition to, and not in substitution of, such guarantees or warranties as may be required in the various Sections of the Specifications.

29.4 Any manufacturers' warranties for equipment provided will be assigned to the City.

30. Force Majeure:

A. The Contractor agrees to indemnify or pay on behalf of the City any economic loss arising out of a delay in the commissioning, completion, or permanent abandonment of the contract as a result of the "Force Majeure" perils. These perils include, but are not limited to the following:

1. On-site or off-site strikes;
2. Transportation delays;
3. Changes in government ordinances, statutes or laws;
4. Court orders amending laws; or
5. Other delays caused by forces beyond the control of the City.

31. Safety Provision

A. Contractor shall be responsible for providing adequate safety measures for all persons and all property which are used in the scope of duties. These duties shall survive the termination of this agreement.

32. Performance Bond

Within ten (10) calendar days after notification of award of this Contract by the City, the Contractor shall deliver to the City a Performance Bond, in the amount of one hundred (100%) percent of the Contract price, with a surety company that is acceptable to the City and that is licensed by the Massachusetts Division of Insurance.

33. Labor and Materials Payment Bond

Within ten (10) calendar days after notification of award of this Contract by the City, the Contractor shall deliver to the City a Labor and Materials Payment Bond, in the amount of one hundred (100%) percent of the Contract price, with a surety company that is acceptable to the City and that is licensed by the Massachusetts Division of Insurance.

This Agreement is intended to take effect as a sealed instrument. Witness our hands and seals hereto:

Dated: _____

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

THE CITY

THE CONTRACTOR

Mayor Date

Company Name

Signature Date

Print Name & Title

APPROVED AS TO FORM ONLY AND NOT AS TO SUBSTANCE:

City Solicitor Date

CERTIFICATION AS TO AVAILABILITY OF FUNDS

Finance Director Date

CERTIFICATION OF GOOD FAITH

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

Signature required

CONFLICT OF INTEREST CERTIFICATION

The Undersigned hereby certifies that:

1. The Undersigned has not given, offered, or agreed to give any gift, contribution, or offer of employment as an inducement for, or in connection with, the award of a Contract.
2. No consultant to, or subcontractor for, the Undersigned has given, offered, or agreed to give any gift, contribution, or offer of employment to the Undersigned, or to any other person, corporation, or entity as an inducement for, or in connection with, the award to the consultant or subcontractor of a Contract by the Undersigned.
3. No person, corporation, or other entity, other than a bona fide full time employee of the Undersigned has been retained or hired to solicit for or in any way assist the Undersigned in obtaining a Contract upon an agreement or understanding that such person, corporation or entity be paid a fee or other compensation contingent upon the award of a Contract to the Undersigned.
4. Undersigned understands that the Massachusetts Conflict of Interest Law, Chapter 268A of the Massachusetts General Laws (M.G.L.), applies to the Undersigned and its officers, employees, agents, subcontractors, and affiliated entities.
5. Undersigned understands that the Undersigned and its officers, employees, agents, subcontractors, and affiliated entities, shall not participate in any activity which constitutes a violation of the Massachusetts Conflict of Interest Law or which creates an appearance of a violation of the Massachusetts Conflict of Interest Law.

Signature required

CERTIFICATE OF STATE TAX COMPLIANCE

Pursuant to Massachusetts General Laws, Chapter 62C, Section 49A,

_____, authorized signatory for
name of signatory

_____, whose
contractor

principal place of business is at _____,

_____ does hereby certify under the pains and penalties of perjury
that _____ has paid all

contractor

Massachusetts taxes and has complied with all laws of the Commonwealth of Massachusetts relating to taxes, reporting of employees and contractors, and withholding and remitting child support.

Signature required

Federal Identification No. of _____ : _____
contractor number

CORPORATE VOTE

At a duly authorized meeting of the Board of Directors of _____
_____ held on _____ at which all the
Directors were present or waived notice, it was voted that _____,
_____ of this company, be 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 _____, shall be binding upon this company.

A TRUE COPY ATTEST:

Clerk,

Date of this Contract

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

Clerk Corporate Seal

SWORN TO AND SUBSCRIBED BEFORE ME THIS _____ DAY OF
_____,

Notary Public

If a corporation, complete above or attach to each signed copy of the bid/written
request/quotation, a notarized copy of vote of corporation authorizing the signatory to sign this
bid/written request/quotation form. If attesting clerk is the same person as the individual
executing this contract, have signature notarized above.

CERTIFICATE OF COMPLIANCE WITH M.G.L. c. 151B

The undersigned hereby certifies that it is in compliance with and shall remain in compliance with Massachusetts General Laws (M.G.L.) Chapter 151B and shall not discriminate on any prohibited basis outlined therein. The Bidder also hereby certifies that it shall comply with any and all applicable Supplier Diversity Office (SDO) thresholds that have been established for the project.

Signature required

CERTIFICATE OF NON-DEBARMENT

The undersigned hereby certifies that it is presently not debarred, suspended, or otherwise prohibited from practice by any federal, state, or local agency, and that, should any proceeding arise in which it is debarred, suspended, or otherwise prohibited from practice by any federal, state, or local agency, the Bidder shall inform the Owner within one (1) business day of such debarment, suspension, or prohibition from practice.

Signature required

AFFIDAVIT OF OSHA COMPLIANCE

The undersigned agrees that if he is selected as the contractor, he will comply with the provisions of M.G.L. Chapter 30, Section 39S.

The undersigned certifies, under penalties of perjury, that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work; that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and that all employees to be employed in the work subject to this bid have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration.

Date _____

(Name of Bidder)

By _____
(Name of person Signing Bid and Title)
Signature is required

(Business Address)

(City and State)

(Telephone Number)

SECTION 011000 - SUMMARY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:

1. Project information.
2. Work covered by Contract Documents.
3. Access to site.
4. Coordination with occupants.
5. Work restrictions.
6. Specification and drawing conventions.
7. Miscellaneous provisions.

- B. Related Requirements:

1. Section 015000 "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.

1.3 PROJECT INFORMATION

- A. Project Identification: Lynch Park Bathroom Building (14015).

1. Project Location: 55 Ober Street, Beverly, MA

- B. Owner: City of Beverly. 191 Cabot Street, Beverly, MA 01915

- C. Architect: BTA (508) 634 8401.

1.4 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of Project is defined by the Contract Documents and consists of the following:

1. Site improvements immediately adjacent to the existing bathroom building; protection of site improvements and landscaping to remain.

2. Site work and installation of new foundation, sidewalks, and building; extension and reconnection of existing utilities and installation and connection of new utilities as shown on the drawings and within the project manual.

B. Type of Contract:

1. Project will be constructed under a single prime contract with filed sub bids for masonry and plumbing.

1.5 ACCESS TO SITE

- A. General: Contractor shall have limited use of Project site per Owner's requirements and as indicated by requirements of this Section.

- B. Use of Site: Limit use of Project site to work in areas indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.

1. Limits: Confine construction operations to areas indicated by Owner and limit site disturbance, including earthwork and approved clearing of vegetation, to 20 feet (12.2 m) beyond building perimeter. All existing vegetation with the exception of turf grass is to remain.
2. Driveways, Walkways and Entrances: Keep driveways and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials.
 - a. Schedule deliveries to minimize use of driveways and entrances by construction operations.
 - b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.

1.6 WORK RESTRICTIONS

- A. Work Restrictions, General: Comply with restrictions on construction operations.

1. Comply with limitations on use of public streets and with other requirements of authorities having jurisdiction.

- B. On-Site Work Hours: Limit work in the existing building to working hours per Owner's instructions.

- C. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after providing temporary utility services according to requirements indicated:

1. Notify Owner not less than three days in advance of proposed utility interruptions.
2. Obtain Owner's written permission before proceeding with utility interruptions.

- D. Noise, Vibration, and Odors: Coordinate operations that may result in high levels of noise and vibration, odors, or other disruption to Owner occupancy with Owner.
 - 1. Notify Owner not less than two days in advance of proposed disruptive operations.
- E. Controlled Substances: Use of tobacco products and other controlled substances is not permitted.
- F. Employee Identification: Provide identification tags for Contractor personnel working on Project site. Require personnel to use identification tags at all times.
- G. Employee Screening: Comply with Owner's requirements for screening of Contractor personnel working on Project site.
 - 1. Maintain list of approved screened personnel with Owner.

1.7 SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 - 1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
 - 2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
- B. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.
- C. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:
 - 1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
 - 2. Abbreviations: Materials and products are identified by abbreviations scheduled on Drawings.

PART 2 - PRODUCTS (Not Used)
PART 3 - EXECUTION (Not Used)

END OF SECTION 011000

SECTION 012500 - SUBSTITUTION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for substitutions.

1.3 DEFINITIONS

- A. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.
 - 1. Substitutions for Basis of Design Products: Products proposed by the contractor that are substantially identical to those indicated as Basis of Design on the drawings.
 - 2. Substitutions for Cause: Changes proposed by Contractor that are required due to changed Project conditions, such as unavailability of product, regulatory changes, or unavailability of required warranty terms.
 - 3. Substitutions for Convenience: Changes proposed by Contractor or Owner that are not required in order to meet other Project requirements but may offer advantage to Contractor or Owner.

1.4 ACTION SUBMITTALS

- A. Substitution Requests: Submit one (1) copy of each request for consideration. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
 - 1. Substitution Request Form: Submit contractor's standard form for approval prior to submitting for substitutions.
 - 2. Documentation: Show compliance with requirements for substitutions and the following, as applicable:
 - a. Statement indicating why basis of design product or fabrication or installation cannot be provided.

- b. Coordination information, including a list of changes or revisions needed to other parts of the Work and to construction performed by Owner and separate contractors, that will be necessary to accommodate proposed substitution.
 - c. Detailed comparison of significant qualities of proposed substitution with those of the Work specified. Include annotated copy of applicable Specification Section. Significant qualities may include attributes such as performance, weight, size, durability, visual effect, sustainable design characteristics, warranties, and specific features and requirements indicated. Indicate deviations, if any, from the Work specified.
 - d. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
 - e. Samples, where applicable or requested.
 - f. Certificates and qualification data, where applicable or requested.
 - g. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners.
 - h. Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.
 - i. Research reports evidencing compliance with building code in effect for Project, from 2009 IBC.
 - j. Detailed comparison of Contractor's construction schedule using proposed substitution with products specified for the Work, including effect on the overall Contract Time. If specified product or method of construction cannot be provided within the Contract Time, include letter from manufacturer, on manufacturer's letterhead, stating date of receipt of purchase order, lack of availability, or delays in delivery.
 - k. Cost information, including a proposal of change, if any, in the Contract Sum.
 - l. Contractor's certification that proposed substitution complies with requirements in the Contract Documents except as indicated in substitution request, is compatible with related materials, and is appropriate for applications indicated.
 - m. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.
3. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within seven days of receipt of a request for substitution. Architect will notify Contractor of acceptance or rejection of proposed substitution within 15 days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later.
- a. Forms of Acceptance: Architect's written acceptance. Note: architect's written acceptance is not an indication that a change order may be submitted.
 - b. Use product specified if Architect does not issue a decision on use of a proposed substitution within time allocated.

1.5 QUALITY ASSURANCE

- A. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. Engage a qualified testing agency to perform compatibility tests recommended by manufacturers.

1.6 PROCEDURES

- A. Coordination: Revise or adjust affected work as necessary to integrate work of the approved substitutions.

PART 2 - PRODUCTS

2.1 SUBSTITUTIONS

- A. Substitutions for Cause: Submit requests for substitution immediately on discovery of need for change, but not later than 15 days prior to time required for preparation and review of related submittals.
 - 1. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:
 - a. Requested substitution is consistent with the Contract Documents and will produce indicated results.
 - b. Substitution request is fully documented and properly submitted.
 - c. Requested substitution will not adversely affect Contractor's construction schedule.
- B. Substitutions for Convenience: Not allowed.

PART 3 - EXECUTION (Not Used)

END OF SECTION 012500

SECTION 013300 - SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes requirements for the submittal schedule and administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.

1.3 DEFINITIONS

- A. Action Submittals: Written and graphic information and physical samples that require Architect's responsive action. Action submittals are those submittals indicated in individual Specification Sections as "action submittals."
- B. Informational Submittals: Written and graphic information and physical samples that do not require Architect's responsive action. Submittals may be rejected for not complying with requirements. Informational submittals are those submittals indicated in individual Specification Sections as "informational submittals."
- C. Portable Document Format (PDF): An open standard file format licensed by Adobe Systems used for representing documents in a device-independent and display resolution-independent fixed-layout document format.

1.4 ACTION SUBMITTALS

- A. Submittal Schedule: Submit a schedule of submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or revisions to submittals noted by Architect and additional time for handling and reviewing submittals required by those corrections.
 - 1. Coordinate submittal schedule with list of subcontracts, the schedule of values, and Contractor's construction schedule.
 - 2. Initial Submittal: Submit concurrently with startup construction schedule. Include submittals required during the first 60 days of construction. List those submittals

- required to maintain orderly progress of the Work and those required early because of long lead time for manufacture or fabrication.
3. Final Submittal: Submit concurrently with the first complete submittal of Contractor's construction schedule.
 - a. Submit revised submittal schedule to reflect changes in current status and timing for submittals.
 4. Format: Arrange the following information in a tabular format:
 - a. Scheduled date for first submittal.
 - b. Specification Section number and title.
 - c. Submittal category: Action; informational.
 - d. Name of subcontractor.
 - e. Description of the Work covered.
 - f. Scheduled date for Architect's final release or approval.
 - g. Scheduled date of fabrication.
 - h. Scheduled dates for purchasing.
 - i. Scheduled dates for installation.
 - j. Activity or event number.

1.5 SUBMITTAL ADMINISTRATIVE REQUIREMENTS

- A. Architect's Digital Data Files: Electronic digital data files of the Contract Drawings will not be provided by Architect for Contractor's use in preparing submittals.
- B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
 1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
 2. Submit all submittal items required for each Specification Section concurrently unless partial submittals for portions of the Work are indicated on approved submittal schedule.
 3. Submit action submittals and informational submittals required by the same Specification Section as separate packages under separate transmittals.
 4. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
 - a. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- C. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.

1. Initial Review: Allow 15 days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination.
 2. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.
 3. Resubmittal Review: Allow 15 days for review of each resubmittal.
- D. Electronic Submittals: Identify and incorporate information in each electronic submittal file as follows:
1. Assemble complete submittal package into a single indexed file incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.
 2. Name file with submittal number or other unique identifier, including revision identifier.
 - a. File name shall use project identifier and Specification Section number followed by a decimal point and then a sequential number (e.g., LNHS-061000.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., LNHS-061000.01.A).
 3. Provide means for insertion to permanently record Contractor's review and approval markings and action taken by Architect.
 4. Transmittal Form for Electronic Submittals: Use electronic form acceptable to Owner, containing the following information:
 - a. Project name.
 - b. Date.
 - c. Name and address of Architect.
 - d. Name of Construction Manager.
 - e. Name of Contractor.
 - f. Name of firm or entity that prepared submittal.
 - g. Names of subcontractor, manufacturer, and supplier.
 - h. Category and type of submittal.
 - i. Submittal purpose and description.
 - j. Specification Section number and title.
 - k. Specification paragraph number or drawing designation and generic name for each of multiple items.
 - l. Drawing number and detail references, as appropriate.
 - m. Location(s) where product is to be installed, as appropriate.
 - n. Related physical samples submitted directly.
 - o. Indication of full or partial submittal.
 - p. Transmittal number[, numbered consecutively].
 - q. Submittal and transmittal distribution record.
 - r. Other necessary identification.
 - s. Remarks.
- E. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.

1. Note date and content of previous submittal.
 2. Note date and content of revision in label or title block and clearly indicate extent of revision.
 3. Resubmit submittals until they are marked with approval notation from Architect's action stamp.
- F. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.
- G. Use for Construction: Retain complete copies of submittals on Project site. Use only final action submittals that are marked with approval notation from Architect's action stamp.

PART 2 - PRODUCTS

2.1 SUBMITTAL PROCEDURES

- A. General Submittal Procedure Requirements: Prepare and submit submittals required by individual Specification Sections. Types of submittals are indicated in individual Specification Sections.
1. Submit electronic submittals via email as PDF electronic files.
 - a. Architect will return annotated file. Annotate and retain one copy of file as an electronic Project record document file.
 2. Action Submittals: Submit one paper copies of each submittal unless otherwise indicated. Architect will return one copies; contractor shall then copy and distribute executed returns to Owner.
 3. Informational Submittals: Submit one paper copies of each submittal unless otherwise indicated. Architect will not return copies.
 4. Certificates and Certifications Submittals: Provide a statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity.
 - a. Provide a digital signature with digital certificate on electronically submitted certificates and certifications where indicated.
 - b. Provide a notarized statement on original paper copy certificates and certifications where indicated.
- B. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.
1. If information must be specially prepared for submittal because standard published data are not suitable for use, submit as Shop Drawings, not as Product Data.

2. Mark each copy of each submittal to show which products and options are applicable.
 3. Include the following information, as applicable:
 - a. Manufacturer's catalog cuts.
 - b. Manufacturer's product specifications.
 - c. Standard color charts.
 - d. Statement of compliance with specified referenced standards.
 - e. Testing by recognized testing agency.
 - f. Application of testing agency labels and seals.
 - g. Notation of coordination requirements.
 - h. Availability and delivery time information.
 4. Submit Product Data before or concurrent with Samples.
 5. Submit Product Data in the following format:
 - a. PDF electronic file.
- C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data.
1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
 - a. Identification of products.
 - b. Schedules.
 - c. Compliance with specified standards.
 - d. Notation of coordination requirements.
 - e. Notation of dimensions established by field measurement.
 - f. Relationship and attachment to adjoining construction clearly indicated.
 - g. Seal and signature of professional engineer if specified.
 2. Sheet Size: Except for templates, patterns, and similar full-size drawings, submit Shop Drawings on sheets at least [8-1/2 by 11 inches (215 by 280 mm), but no larger than 30 by 42 inches (750 by 1067 mm)].
 3. Submit Shop Drawings in the following format:
 - a. PDF electronic file.
- D. Samples: Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed.
1. Transmit Samples that contain multiple, related components such as accessories together in one submittal package.
 2. Identification: Attach label on unexposed side of Samples that includes the following:
 - a. Generic description of Sample.
 - b. Product name and name of manufacturer.

- c. Sample source.
 - d. Number and title of applicable Specification Section.
 - e. Specification paragraph number and generic name of each item.
 3. For projects where electronic submittals are required, provide corresponding electronic submittal of Sample transmittal, digital image file illustrating Sample characteristics, and identification information for record.
 4. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.
 - a. Samples that may be incorporated into the Work are indicated in individual Specification Sections. Such Samples must be in an undamaged condition at time of use.
 - b. Samples not incorporated into the Work, or otherwise designated as Owner's property, are the property of Contractor.
 5. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of repetitively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection.
 - a. Number of Samples: Submit one sets of Samples. Architect will retain one Sample set and return review result electronically.
 - 1) Submit a single Sample where assembly details, workmanship, fabrication techniques, connections, operation, and other similar characteristics are to be demonstrated.
 - 2) If variation in color, pattern, texture, or other characteristic is inherent in material or product represented by a Sample, submit at least three sets of paired units that show approximate limits of variations.
- E. Product Schedule: As required in individual Specification Sections, prepare a written summary indicating types of products required for the Work and their intended location. Include the following information in tabular form:
 1. Type of product. Include unique identifier for each product indicated in the Contract Documents or assigned by Contractor if none is indicated.
 2. Manufacturer and product name, and model number if applicable.
 3. Number and name of room or space.
 4. Location within room or space.
 5. Submit product schedule in the following format:
 - a. PDF electronic file.

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- F. Closeout Submittals and Maintenance Material Submittals: Comply with requirements specified in Section 017700 "Closeout Procedures."
- G. Maintenance Data: Comply with requirements specified in Section 017823 "Operation and Maintenance Data."
- H. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.
- I. Welding Certificates: Prepare written certification that welding procedures and personnel comply with requirements in the Contract Documents. Submit record of Welding Procedure Specification and Procedure Qualification Record on AWS forms. Include names of firms and personnel certified.
- J. Installer Certificates: Submit written statements on manufacturer's letterhead certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.
- K. Manufacturer Certificates: Submit written statements on manufacturer's letterhead certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.
- L. Product Certificates: Submit written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.
- M. Material Certificates: Submit written statements on manufacturer's letterhead certifying that material complies with requirements in the Contract Documents.
- N. Material Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements in the Contract Documents.
- O. Product Test Reports: Submit written reports indicating that current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.
- P. Design Data: Prepare and submit written and graphic information, including, but not limited to, performance and design criteria, list of applicable codes and regulations, and calculations. Include list of assumptions and other performance and design criteria and a summary of loads. Include load diagrams if applicable. Provide name and version of software, if any, used for calculations. Include page numbers.

2.2 DELEGATED-DESIGN SERVICES

- A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.
 - 1. If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Architect.
- B. Delegated-Design Services Certification: In addition to Shop Drawings, Product Data, and other required submittals, submit digitally signed PDF electronic file of certificate, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional.
 - 1. Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services.

PART 3 - EXECUTION

3.1 CONTRACTOR'S REVIEW

- A. Action and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect.
- B. Project Closeout and Maintenance Material Submittals: See requirements in Section 017700 "Closeout Procedures."
- C. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

3.2 ARCHITECT'S[AND CONSTRUCTION MANAGER'S] ACTION

- A. Action Submittals: Architect will review each submittal, make marks to indicate corrections or revisions required, and return it. Architect will stamp each submittal with an action stamp and will mark stamp appropriately to indicate action.
- B. Informational Submittals: Architect will review each submittal and will not return it, or will return it if it does not comply with requirements. Architect will forward each submittal to appropriate party.
- C. Partial submittals shall be discarded without review.

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- D. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.
- E. Submittals not required by the Contract Documents will be discarded by the Architect without action.

END OF SECTION 013300

SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.
- B. Related Requirements:
 - 1. Section 011000 "Summary" for work restrictions and limitations on utility interruptions.

1.3 USE CHARGES

- A. Water and Sewer Service from Existing System: Water from Owner's existing water system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.
- B. Electric Power Service from Existing System: Electric power from Owner's existing system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Portable Chain-Link Fencing: Minimum 2-inch (50-mm), 0.148-inch- (3.8-mm-) thick, galvanized-steel, chain-link fabric fencing; minimum 6 feet (1.8 m) high with galvanized-steel pipe posts; minimum 2-3/8-inch- (60-mm-) OD line posts and 2-7/8-inch- (73-mm-) OD corner and pull posts, with 1-5/8-inch- (42-mm-) OD top and bottom rails. Provide concrete or galvanized-steel bases for supporting posts

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.
 - 1. Locate facilities to limit site disturbance as specified in Section 011000 "Summary."
- B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

3.2 SUPPORT FACILITIES INSTALLATION

- A. Parking: Use designated areas of Owner's existing parking areas for construction personnel.
- B. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction. Comply with progress cleaning requirements found elsewhere in these documents.

3.3 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities.
- B. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
 - 1. Comply with work restrictions specified in Section 011000 "Summary."
- C. Temporary Erosion and Sedimentation Control: Comply with[requirements of 2003 EPA Construction General Permit or authorities having jurisdiction, whichever is more stringent.
- D. Site Enclosure Fence: Before construction operations begin, furnish and install site enclosure fence in a manner that will prevent people and animals from easily entering site except by entrance gates.
 - 1. Extent of Fence: As required to enclose entire Project site or portion determined sufficient to accommodate construction operations and as per Owner.
 - 2. Maintain security by limiting number of keys and restricting distribution to authorized personnel. Furnish one set of keys to Owner

3.4 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of Owner's facilities. To minimize waste and abuse, limit availability of Owner's facilities to essential and intended uses.
- B. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
 - 1. Materials and facilities that constitute temporary facilities are property of Contractor.
 - 2. At Substantial Completion, repair, renovate, and clean permanent facilities used during construction period. Comply with final cleaning requirements specified in Section 017700 "Closeout Procedures."

END OF SECTION 015000

SECTION 017700 - CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
 - 1. Substantial Completion procedures.
 - 2. Final completion procedures.
 - 3. Warranties.
 - 4. Final cleaning.
 - 5. Repair of the Work.

1.3 ACTION SUBMITTALS

- A. Contractor's List of Incomplete Items: Initial submittal at Substantial Completion.
- B. Certified List of Incomplete Items: Final submittal at Final Completion.

1.4 CLOSEOUT SUBMITTALS

- A. Certificate of Insurance: For continuing coverage.

1.5 MAINTENANCE MATERIAL SUBMITTALS

- A. Schedule of Maintenance Material Items: For maintenance material submittal items specified in other Sections.

1.6 SUBSTANTIAL COMPLETION PROCEDURES

- A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's punch list), indicating the value of each item on the list and reasons why the Work is incomplete.

- B. Submittals Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
1. Submit closeout submittals specified in other Division 01 Sections, including project record documents, operation and maintenance manuals, final completion construction photographic documentation, damage or settlement surveys, property surveys, and similar final record information.
 2. Submit closeout submittals specified in individual Sections, including specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
 3. Submit maintenance material submittals specified in individual Sections, including tools, spare parts, extra materials, and similar items, and deliver to location designated by Owner. Label with manufacturer's name and model number where applicable.
- C. Procedures Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
1. Advise Owner of pending insurance changeover requirements.
 2. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
 3. Complete final cleaning requirements, including touchup painting.
 4. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.
- D. Inspection: Submit a written request for inspection to determine Substantial Completion a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Architect, that must be completed or corrected before certificate will be issued.
1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
 2. Results of completed inspection will form the basis of requirements for final completion.

1.7 FINAL COMPLETION PROCEDURES

- A. Submittals Prior to Final Completion: Before requesting final inspection for determining final completion, complete the following:
1. Submit a final Application for Payment.
 2. Certified List of Incomplete Items: Submit certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. Certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.

3. Certificate of Insurance: Submit evidence of final, continuing insurance coverage complying with insurance requirements.

- B. Inspection: Submit a written request for final inspection to determine acceptance a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.

1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

1.8 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

- A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction. Use CSI Form 14.1A.

1. Organize list of locations in sequential order.
2. Include the following information at the top of each page:
 - a. Project name.
 - b. Date.
 - c. Name of Architect.
 - d. Name of Contractor.
 - e. Page number.
3. Submit list of incomplete items in the following format:
 - a. PDF electronic file. Architect will return annotated file.

1.9 SUBMITTAL OF PROJECT WARRANTIES

- A. Time of Submittal: Submit written warranties on request of Architect for designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated, or when delay in submittal of warranties might limit Owner's rights under warranty.
- B. Organize warranty documents into an orderly sequence based on the table of contents of Project Manual.
- C. Provide additional copies of each warranty to include in operation and maintenance manuals.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.
 - 1. Use cleaning products that comply with Green Seal's GS-37, or if GS-37 is not applicable, use products that comply with the California Code of Regulations maximum allowable VOC levels.

PART 3 - EXECUTION

3.1 FINAL CLEANING

- A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
- B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
 - 1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a designated portion of Project:
 - a. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
 - b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
 - c. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.
 - d. Remove tools, construction equipment, machinery, and surplus material from Project site.
 - e. Remove snow and ice to provide safe access to building.
 - f. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
 - g. Remove debris and surface dust from limited access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
 - h. Sweep concrete floors broom clean in unoccupied spaces.

- i. Vacuum carpet and similar soft surfaces, removing debris and excess nap; clean according to manufacturer's recommendations if visible soil or stains remain.
 - j. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials.
 - k. Remove labels that are not permanent.
 - l. Clean light fixtures, lamps, globes, and reflectors to function with full efficiency.
 - m. Leave Project clean and ready for occupancy.
- C. Construction Waste Disposal: Waste disposal is the sole responsibility of the contractor. The contractor shall provide all means and methods to remove the existing glazing system from the roof to an approved waste container, remove it from the site, and legally dispose it. No debris or other waste shall remain on site in any form at the time of final payment request.

3.2 REPAIR OF THE WORK

- A. Complete repair and restoration operations before requesting inspection for determination of Substantial Completion.
- B. Repair or remove and replace defective construction. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment. Where damaged or worn items cannot be repaired or restored, provide replacements. Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified condition.
 - 1. Remove and replace chipped, scratched, and broken glass, reflective surfaces, and other damaged transparent materials.
 - 2. Touch up and otherwise repair and restore marred or exposed finishes and surfaces. Replace finishes and surfaces that already show evidence of repair or restoration.
 - a. Do not paint over "UL" and other required labels and identification, including mechanical and electrical nameplates. Remove paint applied to required labels and identification.

END OF SECTION 017700

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SECTION 042000 - UNIT MASONRY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Sub-Bid Requirements: As provided by Masonry Sub-Bid Requirements, Sub-Bid Forms, Contract Forms and Conditions of the Contract, and applicable parts of Division 1 sections of the Project Manual; Masonry work for this project shall be a filed sub-bid and includes all work described in this section and referenced on the large format drawings.
- B. Section Includes: Scope of work and minimum requirements for project unit masonry work. Masonry work shall include all materials and labor to construct unit masonry walls for the project as shown on the drawings and described herein. The basis for unit masonry work is covered and described on the following large format drawings and in this section (042000):
 1. Cover Sheet: general notes, sealant notes, masonry notes and flashing notes.
 2. Sheet A1.0: 1, 3, 5, 6, 7, 8, 9, 10 & 11.
 3. Sheet A2.0: 1 for water and waste service notes and locations; lavatory and shower supply locations; 2, 3, 4, 5, 6, 7, & 8.
 4. Sheet A3.0: Openings and Partitions Schedule.
- C. Note: masonry work includes coordinating with plumbing, electrical and other contractors to accommodate piping, wiring and equipment, door jambs and other appurtenances as shown on the drawings and described herein. Masonry work also includes the provision and installation of the Grace Perm-A-Barrier system on the masonry walls.

1.3 DEFINITIONS

- A. CMU(s): Concrete masonry unit(s).
- B. Reinforced Masonry: Masonry containing reinforcing steel in grouted cells and horizontal ladder type mesh in the joints.

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1.4 PERFORMANCE REQUIREMENTS

- A. Provide structural unit masonry that develops indicated net-area compressive strengths at 28 days.
 - 1. Determine net-area compressive strength of masonry from average net-area compressive strengths of masonry units and mortar types (unit-strength method) according to Tables 1 and 2 in ACI 530.1/ASCE 6/TMS 602.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated on the drawings and herein.

1.6 QUALITY ASSURANCE

- A. Testing Agency Qualifications: Qualified according to ASTM C 1093 for testing indicated.
- B. Masonry Standard: Comply with ACI 530.1/ASCE 6/TMS 602 unless modified by requirements in the Contract Documents.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store masonry units on elevated platforms in a dry location. If units are not stored in an enclosed location, cover tops and sides of stacks with waterproof sheeting, securely tied. If units become wet, do not install until they are dry.
- B. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use cementitious materials that have become damp.
- C. Store aggregates where grading and other required characteristics can be maintained and contamination avoided.
- D. Deliver preblended, dry mortar mix in moisture-resistant containers designed for use with dispensing silos. Store preblended, dry mortar mix in delivery containers on elevated platforms, under cover, and in a dry location or in covered weatherproof dispensing silos.
- E. Store masonry accessories, including metal items, to prevent corrosion and accumulation of dirt and oil.

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1.8 PROJECT CONDITIONS

- A. Protection of Masonry: During construction, cover tops of walls, projections, and sills with waterproof sheeting at end of each day's work. Cover partially completed masonry when construction is not in progress.
 - 1. Extend cover a minimum of 24 inches (600 mm) down both sides of walls and hold cover securely in place.
- B. Do not apply uniform floor or roof loads for at least 12 hours and concentrated loads for at least three days after building masonry walls or columns.
- C. Stain Prevention: Prevent grout, mortar, and soil from staining the face of masonry to be left exposed or painted. Immediately remove grout, mortar, and soil that come in contact with such masonry.
 - 1. Protect base of walls from rain-splashed mud and from mortar splatter by spreading coverings on ground and over wall surface.
 - 2. Protect sills, ledges, and projections from mortar droppings.
 - 3. Protect surfaces of window and door frames, as well as similar products with painted and integral finishes, from mortar droppings.
 - 4. Turn scaffold boards near the wall on edge at the end of each day to prevent rain from splashing mortar and dirt onto completed masonry.
- D. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen substrates. Remove and replace unit masonry damaged by frost or by freezing conditions. Comply with cold-weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602.
 - 1. Cold-Weather Cleaning: Use liquid cleaning methods only when air temperature is 40 deg F (4 deg C) and higher and will remain so until masonry has dried, but not less than seven days after completing cleaning.
- E. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602.

PART 2 - PRODUCTS

2.1 MASONRY UNITS, GENERAL

- A. Defective Units: Referenced masonry unit standards may allow a certain percentage of units to contain chips, cracks, or other defects exceeding limits stated in the standard. Do not use units where such defects will be exposed in the completed Work.

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2.2 CONCRETE MASONRY UNITS

- A. CMUs: ASTM C 90.
 - 1. Density Classification: Normal weight.
 - 2. Types: as shown on the drawings including but not limited to: bond beam, open end, lintel and jamb.
 - 3. Size (Width): Manufactured to dimensions 3/8 inch less than nominal dimensions.
- B. Concrete Building Brick: ASTM C 55.
 - 1. Colors: [As indicated by manufacturer's designations] [Match Architect's samples] [As selected by Architect from manufacturer's full range].
 - 2. Special Aggregate: Provide units made with aggregate matching aggregate in Architect's sample.

2.3 MORTAR AND GROUT MATERIALS

- A. Portland Cement: ASTM C 150, Type I or II, except Type III may be used for cold-weather construction.
- B. Hydrated Lime: ASTM C 207, Type S.
- C. Portland Cement-Lime Mix: Packaged blend of portland cement and hydrated lime containing no other ingredients.
- D. Masonry Cement: ASTM C 91.
- E. Mortar Cement: ASTM C 1329.
- F. Aggregate for Mortar: ASTM C 144.
- G. Aggregate for Grout: ASTM C 404.
- H. Water: Potable.

2.4 REINFORCEMENT

- A. Uncoated Steel Reinforcing Bars: ASTM A 615/A 615M or ASTM A 996/A 996M, Grade 60 (Grade 420).
- B. Masonry Joint Reinforcement, General: ASTM A 951/A 951M.
 - 1. Interior Walls: Hot-dip galvanized, carbon steel.
 - 2. Exterior Walls: Hot-dip galvanized, carbon steel.
 - 3. Wire Size for Side and cross Rods: 0.148-inch (3.77-mm) diameter.

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- C. Masonry Joint Reinforcement for Single-Wythe Masonry: Either ladder or truss type with single pair of side rods.

2.5 FLASHING MATERIALS

1. Rubberized-Asphalt Flashing: Composite flashing product consisting of a pliable, adhesive rubberized-asphalt compound, bonded to a high-density, cross-laminated polyethylene film. Masonry scope of work includes provision and installation of Grace Perm-A-Barrier system on exterior masonry walls as shown on the drawings and included herein.

a. Products: BOD material

- 1) Grace Construction Products, W. R. Grace & Co. - Conn.; Perm-A-Barrier Wall Flashing.

- b. Accessories: Provide full system products as described by the manufacturer and as follows: provide preformed corners, end dams, other special shapes, and seaming materials produced by flashing manufacturer.

- B. Application: Unless otherwise indicated, use the following:

1. Where flashing is exposed, use metal flashing.
2. Where flashing is fully concealed, use flexible flashing.

2.6 MISCELLANEOUS MASONRY ACCESSORIES

- A. Compressible Filler for Expansion and Control Joints: Premolded filler strips complying with ASTM D 1056, Grade 2A1; compressible up to 35 percent; of width and thickness indicated; BOD: WR Meadows "Deck-O-Foam".
- B. Joint Sealant for Expansion and Control Joints: install Dow 790 silicone and backer rod to seal all joints outboard of compressible filler.
- C. Weep/Vent Products: Use the following unless otherwise indicated:
 1. Cellular Plastic Weep/Vent: One-piece, flexible extrusion made from UV-resistant polypropylene copolymer, full height and width of head joint and depth 1/8 inch (3 mm) less than depth of outer wythe, in color selected from manufacturer's standard.

2.7 MASONRY CLEANERS

- A. Proprietary Acidic Cleaner: Manufacturer's standard-strength cleaner designed for removing mortar/grout stains, efflorescence, and other new construction stains from new masonry without discoloring or damaging masonry surfaces. Use product expressly approved for intended use by cleaner manufacturer and manufacturer of masonry units being cleaned.

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2.8 MORTAR AND GROUT MIXES

- A. General: Do not use admixtures, including pigments, air-entraining agents, accelerators, retarders, water-repellent agents, antifreeze compounds, or other admixtures, unless otherwise indicated.
 - 1. Do not use calcium chloride in mortar or grout.
 - 2. Use portland cement-lime, masonry cement or mortar cement mortar unless otherwise indicated.
 - 3. Add cold-weather admixture (if used) at same rate for all mortar that will be exposed to view, regardless of weather conditions, to ensure that mortar color is consistent.
- B. Preblended, Dry Mortar Mix: Furnish dry mortar ingredients in form of a preblended mix. Measure quantities by weight to ensure accurate proportions, and thoroughly blend ingredients before delivering to Project site.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine conditions for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Before installation, examine rough-in and built-in construction for piping systems to verify actual locations of piping connections.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

- A. Thickness: Build single-wythe walls to actual widths of masonry units, using units of widths indicated.
- B. Build chases and recesses to accommodate items specified in this and other Sections.
- C. Leave openings for equipment to be installed before completing masonry. After installing equipment, complete masonry to match the construction immediately adjacent to opening.
- D. Use full-size units without cutting if possible. If cutting is required to provide a continuous pattern or to fit adjoining construction, cut units with motor-driven saws; provide clean, sharp, unchipped edges. Allow units to dry before laying unless wetting of units is specified. Install cut units with cut surfaces and, where possible, cut edges concealed.

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3.3 TOLERANCES

A. Dimensions and Locations of Elements:

1. For dimensions in cross section or elevation do not vary by more than plus 1/2 inch (12 mm) or minus 1/4 inch (6 mm).
2. For location of elements in plan do not vary from that indicated by more than plus or minus 1/2 inch (12 mm).
3. For location of elements in elevation do not vary from that indicated by more than plus or minus 1/4 inch (6 mm) in a story height or 1/2 inch (12 mm) total.

B. Lines and Levels:

1. For bed joints and top surfaces of bearing walls do not vary from level by more than 1/4 inch in 10 feet (6 mm in 3 m), or 1/2 inch (12 mm) maximum.
2. For conspicuous horizontal lines, such as lintels, sills, parapets, and reveals, do not vary from level by more than 1/8 inch in 10 feet (3 mm in 3 m), 1/4 inch in 20 feet (6 mm in 6 m), or 1/2 inch (12 mm) maximum.
3. For vertical lines and surfaces do not vary from plumb by more than 1/4 inch in 10 feet (6 mm in 3 m), 3/8 inch in 20 feet (9 mm in 6 m), or 1/2 inch (12 mm) maximum.
4. For conspicuous vertical lines, such as external corners, door jambs, reveals, and expansion and control joints, do not vary from plumb by more than 1/8 inch in 10 feet (3 mm in 3 m), 1/4 inch in 20 feet (6 mm in 6 m), or 1/2 inch (12 mm) maximum.
5. For lines and surfaces do not vary from straight by more than 1/4 inch in 10 feet (6 mm in 3 m), 3/8 inch in 20 feet (9 mm in 6 m), or 1/2 inch (12 mm) maximum.
6. For vertical alignment of exposed head joints, do not vary from plumb by more than 1/4 inch in 10 feet (6 mm in 3 m), or 1/2 inch (12 mm) maximum.
7. For faces of adjacent exposed masonry units, do not vary from flush alignment by more than 1/16 inch (1.5 mm) except due to warpage of masonry units within tolerances specified for warpage of units.

C. Joints:

1. For bed joints, do not vary from thickness indicated by more than plus or minus 1/8 inch (3 mm), with a maximum thickness limited to 1/2 inch (12 mm).

3.4 LAYING MASONRY WALLS

- A. Lay out walls in advance for accurate spacing of surface bond patterns with uniform joint thicknesses and for accurate location of openings, movement-type joints, returns, and offsets. Avoid using less-than-half-size units, particularly at corners, jambs, and, where possible, at other locations.
- B. Bond Pattern for Exposed Masonry: Unless otherwise indicated, lay exposed masonry in running bond; do not use units with less than nominal 4-inch (100-mm) horizontal face dimensions at corners or jambs.

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- C. Stopping and Resuming Work: Stop work by racking back units in each course from those in course below; do not tooth. When resuming work, clean masonry surfaces that are to receive mortar, remove loose masonry units and mortar, and wet brick if required before laying fresh masonry.
- D. Built-in Work: As construction progresses, build in items specified in this and other Sections. Fill in solidly with masonry around built-in items.
- E. Fill space between steel frames and masonry solidly with mortar unless otherwise indicated.
- F. Where built-in items are to be embedded in cores of hollow masonry units, place a layer of metal lath, wire mesh, or plastic mesh in the joint below and rod mortar or grout into core.
- G. Fill cores in hollow CMUs with grout under bearing plates, beams, lintels, posts, and similar items unless otherwise indicated.

3.5 MORTAR BEDDING AND JOINTING

- A. Lay CMUs as follows:
 1. With webs fully bedded in mortar in grouted masonry, including starting course on footings.

3.6 MASONRY JOINT REINFORCEMENT

- A. General: Install entire length of longitudinal side rods in mortar with a minimum cover of 5/8 inch (16 mm) on exterior side of walls, 1/2 inch (13 mm) elsewhere. Lap reinforcement a minimum of 6 inches (150 mm).
 1. Space reinforcement not more than 16 inches (406 mm) o.c.
- B. Interrupt joint reinforcement at control and expansion joints unless otherwise indicated.
- C. Provide continuity at wall intersections by using prefabricated T-shaped units.
- D. Provide continuity at corners by using prefabricated L-shaped units.

3.7 CONTROL AND EXPANSION JOINTS

- A. General: Install control and expansion joint materials in unit masonry as masonry progresses. Do not allow materials to span control and expansion joints without provision to allow for in-plane wall or partition movement.
- B. Form control joints in concrete masonry using one of the following methods:

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1. Fit bond-breaker strips into hollow contour in ends of CMUs on one side of control joint. Fill resultant core with grout and rake out joints in exposed faces for application of sealant.
2. Install preformed control-joint gaskets designed to fit standard sash block.
3. Install interlocking units designed for control joints. Install bond-breaker strips at joint. Keep head joints free and clear of mortar or rake out joint for application of sealant.
4. Install temporary foam-plastic filler in head joints and remove filler when unit masonry is complete for application of sealant.

3.8 LINTELS

- A. Provide masonry lintels where shown.
- B. Provide minimum bearing of 8 inches (200 mm) at each jamb unless otherwise indicated.

3.9 FLASHING, WEEP HOLES, CAVITY DRAINAGE, AND VENTS

- A. General: Install weep holes in masonry at shelf angles, lintels, ledges, other obstructions to downward flow of water in wall, and where indicated. Install flashing as follows unless otherwise indicated:
 1. Prepare masonry surfaces so they are smooth and free from projections that could puncture flashing. Where flashing is within mortar joint, place through-wall flashing on sloping bed of mortar and cover with mortar. Before covering with mortar, seal penetrations in flashing with adhesive, sealant, or tape as recommended by flashing manufacturer.
 2. At lintels and shelf angles, extend flashing a minimum of 6 inches (150 mm) into masonry at each end. At heads and sills, extend flashing 6 inches (150 mm) at ends and turn up not less than 2 inches (50 mm) to form end dams.
 3. Install metal drip edges beneath flexible flashing at exterior face of wall. Stop flexible flashing 1/2 inch (13 mm) back from outside face of wall and adhere flexible flashing to top of metal drip edge.
- B. Install single-wythe CMU flashing system in bed joints of CMU walls where indicated to comply with manufacturer's written instructions. Install CMU cell pans with upturned edges located below face shells and webs of CMUs above and with weep spouts aligned with face of wall. Install CMU web covers so that they cover upturned edges of CMU cell pans at CMU webs and extend from face shell to face shell.
- C. Install reglets and nailers for flashing and other related construction where they are shown to be built into masonry.
- D. Install weep holes in head joints in exterior wythes of first course of masonry immediately above flashing.

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- E. Place pea gravel in cavities as soon as practical to a height equal to height of first course above top of flashing, but not less than 2 inches (50 mm), to maintain drainage.
 - 1. Fill cavities full height by placing pea gravel in cavities as masonry is laid so that at any point masonry does not extend more than 24 inches (600 mm) above top of pea gravel.

3.10 REINFORCED UNIT MASONRY INSTALLATION

- A. Temporary Formwork and Shores: Construct formwork and shores as needed to support reinforced masonry elements during construction.
 - 1. Construct formwork to provide shape, line, and dimensions of completed masonry as indicated. Make forms sufficiently tight to prevent leakage of mortar and grout. Brace, tie, and support forms to maintain position and shape during construction and curing of reinforced masonry.
 - 2. Do not remove forms and shores until reinforced masonry members have hardened sufficiently to carry their own weight and other loads that may be placed on them during construction.
- B. Placing Reinforcement: Comply with requirements in ACI 530.1/ASCE 6/TMS 602.
- C. Grouting: Do not place grout until entire height of masonry to be grouted has attained enough strength to resist grout pressure.
 - 1. Comply with requirements in ACI 530.1/ASCE 6/TMS 602 for cleanouts and for grout placement, including minimum grout space and maximum pour height.
 - 2. Limit height of vertical grout pours to not more than 60 inches (1520 mm) [12.67 ft. (3.86 m)].

3.11 REPAIRING, POINTING, AND CLEANING

- A. Remove and replace masonry units that are loose, chipped, broken, stained, or otherwise damaged or that do not match adjoining units. Install new units to match adjoining units; install in fresh mortar, pointed to eliminate evidence of replacement.
- B. Pointing: During the tooling of joints, enlarge voids and holes, except weep holes, and completely fill with mortar. Point up joints, including corners, openings, and adjacent construction, to provide a neat, uniform appearance. Prepare joints for sealant application, where indicated.
- C. In-Progress Cleaning: Clean unit masonry as work progresses by dry brushing to remove mortar fins and smears before tooling joints.
- D. Final Cleaning: After mortar is thoroughly set and cured, clean exposed masonry as follows:

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1. Remove large mortar particles by hand with wooden paddles and nonmetallic scrape hoes or chisels.
2. Test cleaning methods on sample wall panel; leave one-half of panel uncleaned for comparison purposes. Obtain Architect's approval of sample cleaning before proceeding with cleaning of masonry.
3. Protect adjacent stone and nonmasonry surfaces from contact with cleaner by covering them with liquid strippable masking agent or polyethylene film and waterproof masking tape.
4. Wet wall surfaces with water before applying cleaners; remove cleaners promptly by rinsing surfaces thoroughly with clear water.
5. Clean brick by bucket-and-brush hand-cleaning method described in BIA Technical Notes 20.
6. Clean masonry with a proprietary acidic cleaner applied according to manufacturer's written instructions.
7. Clean concrete masonry by cleaning method indicated in NCMA TEK 8-2A applicable to type of stain on exposed surfaces.
8. Clean stone trim to comply with stone supplier's written instructions.
9. Clean limestone units to comply with recommendations in ILI's "Indiana Limestone Handbook."

3.12 MASONRY WASTE DISPOSAL

- A. Salvageable Materials: Unless otherwise indicated, excess masonry materials are Contractor's property. At completion of unit masonry work, remove from Project site.
- B. Waste Disposal as Fill Material: Dispose of clean masonry waste, including excess or soil-contaminated sand, waste mortar, and broken masonry units, by crushing and mixing with fill material as fill is placed.
 1. Crush masonry waste to less than 4 inches (100 mm) in each dimension.
 2. Mix masonry waste with at least two parts of specified fill material for each part of masonry waste. Fill material is specified in Section 312000 "Earth Moving."
 3. Do not dispose of masonry waste as fill within 18 inches (450 mm) of finished grade.
- C. Excess Masonry Waste: Remove excess clean masonry waste that cannot be used as fill, as described above, and other masonry waste, and legally dispose of off Owner's property.

END OF SECTION 042000

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SECTION 220000--PLUMBING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Sub-Bid Requirements: As provided by Plumbing Sub-Bid Requirements, Sub-Bid Forms, Contract Forms and Conditions of the Contract, and applicable parts of Division 1 sections of the Project Manual; Plumbing work for this project shall be a filed sub-bid and includes all work described in this section and referenced on the large format drawings.
- B. This section includes common work requirements for the delegated design of the plumbing system. Include all products included in the Plumbing Schedule and as shown on the drawings in locations indicated on drawings. The basis for the delegated design is covered and described on the following large format drawings and in this section (220000):
 1. Cover Sheet: general notes and sealant notes
 2. Sheet A1.0: 1, 5, 6, 9, & 10.
 3. Sheet A2.0: 1 for water and waste service notes and locations; lavatory and shower supply locations; floor drain locations; connection requirements, trenching and backfilling locations.
 4. Sheet A3.0: 2, & 3 for Plumbing and Accessory Schedule and accessible bathroom elevations.
- C. General Design Criteria:
 1. The water service main shall be located as shown in the drawings in the Storage Area and be mounted exposed for easy repair access.
 2. The waste main shall be located as shown in the drawings in the Storage Area and shall provide easy access to cleanouts.
 3. Supply piping shall be routed so each bathroom can be isolated for repairs; all supply piping shall be routed so the entire system can be back-drained and cleared with compressed air for winterization. All fixtures shall be isolated by valves to allow for repairs.
 4. All shock arrestors for plumbing fixtures shall be located in the Storage Area in an exposed location for easy maintenance and repairs.
 5. Hot water heaters and piping will not be required for the project.
 6. Basis of Design (BOD) materials are listed in the Plumbing Schedule; substitutions are acceptable and will be approved if the proposed substitutions can be demonstrated to be equivalent in material, color, operation and quality to the BOD materials.
 7. All plumbing fixtures shall be wall hung with heavy duty carriers.

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8. All floor drains shall be equipped with waterless trap primers.
9. All plumbing fixtures shall be automatically operated.
10. The following flow rates shall be used for the project:
 - a. Toilets: 1.28 GPF
 - b. Urinals: .5 GPF or less
 - c. Lavatories: .5 GPM

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated and/or necessary to provide a complete, code complaint and fully operational plumbing system.
- B. Shop Drawings: Detail complete plumbing system using BOD products or approved substitutes.
 1. Wiring Diagrams: Include locations of electrically operated valves and other electronic interfaces as necessary.

1.4 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: For piping and specialties including relation to other services in same area, drawn to scale. Show piping and specialty sizes and valves, meter and specialty locations, and elevations.

1.5 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For all fixtures, devices and accessories.

1.6 QUALITY ASSURANCE

- A. Regulatory Requirements:
 1. Comply with requirements of utility company supplying water. Include tapping of water mains and backflow prevention.
 2. Comply with standards of authorities having jurisdiction for potable-water-service piping, including materials, installation, testing, and disinfection.
- B. Piping materials shall bear label, stamp, or other markings of specified testing agency.
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- D. Comply with ASTM F 645 for selection, design, and installation of thermoplastic water piping.

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1.7 PROJECT CONDITIONS

- A. Interruption of Existing Water-Distribution Service: Do not interrupt service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary water-distribution service according to requirements indicated:
1. Notify Owner no fewer than two days in advance of proposed interruption of service.
 2. Do not proceed with interruption of water-distribution service without Owner's written permission.

1.8 COORDINATION

- A. Coordinate connection to water main and sewer main with utility company.

PART 2 - PRODUCTS: Minimum Requirements for delegated design.

2.1 SCHEDULED PRODUCTS

- A. Include all products included in the Plumbing Schedule and as shown on the drawings in locations indicated on drawings. The basis for the delegated design is covered and described on the following large format drawings and in this section (220000):
1. Cover Sheet: general notes and sealant notes
 2. Sheet A1.0: 1, 5, 6, 9, & 10.
 3. Sheet A2.0: 1 for water and waste service notes and locations; lavatory and shower supply locations; floor drain locations; connection requirements, trenching and backfilling locations.
 4. Sheet A3.0: 2, & 3 for Plumbing and Accessory Schedule and accessible bathroom elevations.

2.2 COPPER TUBE AND FITTINGS

- A. Soft Copper Tube: ASTM B 88, Type K (ASTM B 88M, Type A) and ASTM B 88, Type L (ASTM B 88M, Type B), water tube, annealed temper.
1. Copper, Solder-Joint Fittings: ASME B16.18, cast-copper-alloy or ASME B16.22, wrought-copper, solder-joint pressure type. Furnish only wrought-copper fittings if indicated.
 2. Copper, Pressure-Seal Fittings:
 - a. NPS 2 (DN 50) and Smaller: Wrought-copper fitting with EPDM O-ring seal in each end.
 - b. NPS 2-1/2 to NPS 4 (DN 65 to DN 100): Bronze fitting with stainless-steel grip ring and EPDM O-ring seal in each end.

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- B. Hard Copper Tube: ASTM B 88, Type K (ASTM B 88M, Type A) water tube, drawn temper.
 - 1. Copper, Solder-Joint Fittings: ASME B16.18, cast-copper-alloy or ASME B16.22, wrought-copper, solder-joint pressure type. Furnish only wrought-copper fittings if indicated.
 - 2. Copper, Pressure-Seal Fittings:
 - a. NPS 2 (DN 50) and Smaller: Wrought-copper fitting with EPDM O-ring seal in each end.
 - b. NPS 2-1/2 to NPS 4 (DN 65 to DN 100): Bronze fitting with stainless-steel grip ring and EPDM O-ring seal in each end.
- C. Bronze Flanges: ASME B16.24, Class 150, with solder-joint end. Furnish Class 300 flanges if required to match piping.
- D. Copper Unions: MSS SP-123, cast-copper-alloy, hexagonal-stock body with ball-and-socket, metal-to-metal seating surfaces, and solder-joint or threaded ends.

2.3 PVC PIPE AND FITTINGS

- A. PVC, Schedule 40 Pipe: ASTM D 1785.
 - 1. PVC, Schedule 40 Socket Fittings: ASTM D 2466.

END OF SECTION 220000

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DOCUMENT 000950 – LIST OF DRAWINGS

1.0 The following drawings are part of this document, dated March 06, 2015.

Cover Page

- A1.0 Plan, Sections, Details and Elevations
- A2.0 Foundation Plan and Details
- A3.0 Schedules, Electrical Plan, and Bathroom Elevations

END OF DOCUMENT



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

Prevailing Wage Rates

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

RONALD L. WALKER, II
Secretary
JEAN ZEILER
Acting Director

CHARLES D. BAKER
Governor

KARYN E. POLITO
Lt. Governor

Awarding Authority: City of Beverly
Contract Number: 15-1000 **City/Town:** BEVERLY
Description of Work: Lynch Park Bathroom Building - Construction of an approximately 20x30 concrete block building with a wood roof containing men's and women's restrooms and storage area.
Job Location: 15-1000 Lynch Park Bathroom Building

Information about Prevailing Wage Schedules for Awarding Authorities and Contractors

- This wage schedule applies only to the specific project referenced at the top of this page and uniquely identified by the “Wage Request Number” on all pages of this schedule.
- An Awarding Authority must request an updated wage schedule from the Department of Labor Standards (“DLS”) if it has not opened bids or selected a contractor within 90 days of the date of issuance of the wage schedule. For CM AT RISK projects (bid pursuant to G.L. c.149A), the earlier of: (a) the execution date of the GMP Amendment, or (b) the bid for the first construction scope of work must be within 90-days of the wage schedule issuance date.
- The wage schedule shall be incorporated in any advertisement or call for bids for the project as required by M.G.L. c. 149, § 27. The wage schedule shall be made a part of the contract awarded for the project. The wage schedule must be posted in a conspicuous place at the work site for the life of the project in accordance with M.G.L. c. 149 § 27. The wages listed on the wage schedule must be paid to employees performing construction work on the project whether they are employed by the prime contractor, a filed sub-bidder, or any sub-contractor.
- All apprentices working on the project are required to be registered with the Massachusetts Division of Apprentice Standards (DAS). Apprentice must keep his/her apprentice identification card on his/her person during all work hours on the project. An apprentice registered with DAS may be paid the lower apprentice wage rate at the applicable step as provided on the prevailing wage schedule. **If an apprentice rate is not listed on the prevailing wage schedule for the trade in which an apprentice is registered with the DAS, 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. For multi-year CM AT RISK projects, awarding authority must request an annual update no later than two weeks before the anniversary date, determined as the earlier of: (a) the execution date of the GMP Amendment, or (b) the execution date of the first amendment to permit procurement of construction services. Contractors are required to obtain the wage schedules from awarding authorities, and to pay no less than these rates to covered workers. The annual update requirement is not applicable to 27F “rental of equipment” contracts.
- Every contractor or subcontractor which performs construction work on the project is required to submit weekly payroll reports and a Statement of Compliance directly to the awarding authority by mail or email and keep them on file for three years. Each weekly payroll report must contain: the employee’s name, address, occupational classification, hours worked, and wages paid. Do not submit weekly payroll reports to DLS. A sample of a payroll reporting form may be obtained at <http://www.mass.gov/dols/pw>.
- Contractors with questions about the wage rates or classifications included on the wage schedule have an affirmative obligation to inquire with DLS at (617) 626-6953.
- Employees not receiving the prevailing wage rate set forth on the wage schedule may report the violation to the Fair Labor Division of the office of the Attorney General at (617) 727-3465.
- Failure of a contractor or subcontractor to pay the prevailing wage rates listed on the wage schedule to all employees who perform construction work on the project is a violation of the law and subjects the contractor or subcontractor to civil and 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 B</i>	12/01/2014	\$31.30	\$9.91	\$9.33	\$0.00	\$50.54
	06/01/2015	\$31.65	\$9.91	\$9.33	\$0.00	\$50.89
	08/01/2015	\$31.65	\$10.41	\$9.33	\$0.00	\$51.39
	12/01/2015	\$31.65	\$10.41	\$10.08	\$0.00	\$52.14
	06/01/2016	\$32.15	\$10.41	\$10.08	\$0.00	\$52.64
	08/01/2016	\$32.15	\$10.91	\$10.08	\$0.00	\$53.14
	12/01/2016	\$32.15	\$10.91	\$10.89	\$0.00	\$53.95
(3 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2014	\$31.37	\$9.91	\$9.33	\$0.00	\$50.61
	06/01/2015	\$31.72	\$9.91	\$9.33	\$0.00	\$50.96
	08/01/2015	\$31.72	\$10.41	\$9.33	\$0.00	\$51.46
	12/01/2015	\$31.72	\$10.41	\$10.08	\$0.00	\$52.21
	06/01/2016	\$32.22	\$10.41	\$10.08	\$0.00	\$52.71
	08/01/2016	\$32.22	\$10.91	\$10.08	\$0.00	\$53.21
	12/01/2016	\$32.22	\$10.91	\$10.89	\$0.00	\$54.02
(4 & 5 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2014	\$31.49	\$9.91	\$9.33	\$0.00	\$50.73
	06/01/2015	\$31.84	\$9.91	\$9.33	\$0.00	\$51.08
	08/01/2015	\$31.84	\$10.41	\$9.33	\$0.00	\$51.58
	12/01/2015	\$31.84	\$10.41	\$10.08	\$0.00	\$52.33
	06/01/2016	\$32.34	\$10.41	\$10.08	\$0.00	\$52.83
	08/01/2016	\$32.34	\$10.91	\$10.08	\$0.00	\$53.33
	12/01/2016	\$32.34	\$10.91	\$10.89	\$0.00	\$54.14
ADS/SUBMERSIBLE PILOT <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2014	\$87.36	\$9.80	\$18.17	\$0.00	\$115.33
	08/01/2015	\$90.51	\$9.80	\$18.17	\$0.00	\$118.48
AIR TRACK OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2014	\$31.40	\$7.30	\$12.30	\$0.00	\$51.00
	06/01/2015	\$31.90	\$7.30	\$12.30	\$0.00	\$51.50
	12/01/2015	\$32.40	\$7.30	\$12.30	\$0.00	\$52.00
	06/01/2016	\$32.90	\$7.30	\$12.30	\$0.00	\$52.50
	12/01/2016	\$33.65	\$7.30	\$12.30	\$0.00	\$53.25
For apprentice rates see "Apprentice- LABORER"						
ASBESTOS REMOVER - PIPE / MECH. EQUIPT. <i>HEAT & FROST INSULATORS LOCAL 6 (BOSTON)</i>	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 2</i>	12/01/2014	\$30.90	\$7.30	\$12.30	\$0.00	\$50.50
	06/01/2015	\$31.40	\$7.30	\$12.30	\$0.00	\$51.00
	12/01/2015	\$31.90	\$7.30	\$12.30	\$0.00	\$51.50
	06/01/2016	\$32.40	\$7.30	\$12.30	\$0.00	\$52.00
	12/01/2016	\$33.15	\$7.30	\$12.30	\$0.00	\$52.75
For apprentice rates see "Apprentice- LABORER"						
ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2014	\$42.39	\$10.00	\$14.30	\$0.00	\$66.69
	06/01/2015	\$43.14	\$10.00	\$14.30	\$0.00	\$67.44
	12/01/2015	\$44.39	\$10.00	\$14.30	\$0.00	\$68.69
	06/01/2016	\$45.14	\$10.00	\$14.30	\$0.00	\$69.44
	12/01/2016	\$46.39	\$10.00	\$14.30	\$0.00	\$70.69
	06/01/2017	\$47.39	\$10.00	\$14.30	\$0.00	\$71.69
	12/01/2017	\$48.39	\$10.00	\$14.30	\$0.00	\$72.69

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BACKHOE/FRONT-END LOADER <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2014	\$42.39	\$10.00	\$14.30	\$0.00	\$66.69
	06/01/2015	\$43.14	\$10.00	\$14.30	\$0.00	\$67.44
	12/01/2015	\$44.39	\$10.00	\$14.30	\$0.00	\$68.69
	06/01/2016	\$45.14	\$10.00	\$14.30	\$0.00	\$69.44
	12/01/2016	\$46.39	\$10.00	\$14.30	\$0.00	\$70.69
	06/01/2017	\$47.39	\$10.00	\$14.30	\$0.00	\$71.69
	12/01/2017	\$48.39	\$10.00	\$14.30	\$0.00	\$72.69
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BARCO-TYPE JUMPING TAMPER <i>LABORERS - ZONE 2</i>	12/01/2014	\$30.90	\$7.30	\$12.30	\$0.00	\$50.50
	06/01/2015	\$31.40	\$7.30	\$12.30	\$0.00	\$51.00
	12/01/2015	\$31.90	\$7.30	\$12.30	\$0.00	\$51.50
	06/01/2016	\$32.40	\$7.30	\$12.30	\$0.00	\$52.00
	12/01/2016	\$33.15	\$7.30	\$12.30	\$0.00	\$52.75
For apprentice rates see "Apprentice- LABORER"						
BLOCK PAVER, RAMMER / CURB SETTER <i>LABORERS - ZONE 2</i>	12/01/2014	\$31.40	\$7.30	\$12.30	\$0.00	\$51.00
	06/01/2015	\$31.90	\$7.30	\$12.30	\$0.00	\$51.50
	12/01/2015	\$32.40	\$7.30	\$12.30	\$0.00	\$52.00
	06/01/2016	\$32.90	\$7.30	\$12.30	\$0.00	\$52.50
	12/01/2016	\$33.65	\$7.30	\$12.30	\$0.00	\$53.25
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 (LYNN)</i>	02/01/2015	\$48.96	\$10.18	\$18.50	\$0.00	\$77.64
	08/01/2015	\$49.86	\$10.18	\$18.57	\$0.00	\$78.61
	02/01/2016	\$50.43	\$10.18	\$18.57	\$0.00	\$79.18
	08/01/2016	\$51.33	\$10.18	\$18.65	\$0.00	\$80.16
	02/01/2017	\$51.90	\$10.18	\$18.65	\$0.00	\$80.73

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

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

Effective Date - 02/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.48	\$10.18	\$18.50	\$0.00	\$53.16
2	60	\$29.38	\$10.18	\$18.50	\$0.00	\$58.06
3	70	\$34.27	\$10.18	\$18.50	\$0.00	\$62.95
4	80	\$39.17	\$10.18	\$18.50	\$0.00	\$67.85
5	90	\$44.06	\$10.18	\$18.50	\$0.00	\$72.74

Effective Date - 08/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.93	\$10.18	\$18.57	\$0.00	\$53.68
2	60	\$29.92	\$10.18	\$18.57	\$0.00	\$58.67
3	70	\$34.90	\$10.18	\$18.57	\$0.00	\$63.65
4	80	\$39.89	\$10.18	\$18.57	\$0.00	\$68.64
5	90	\$44.87	\$10.18	\$18.57	\$0.00	\$73.62

Notes:

Apprentice to Journeyworker Ratio:1:5

BULLDOZER/GRADER/SCRAPER	12/01/2014	\$41.99	\$10.00	\$14.30	\$0.00	\$66.29
<i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2015	\$42.73	\$10.00	\$14.30	\$0.00	\$67.03
	12/01/2015	\$43.97	\$10.00	\$14.30	\$0.00	\$68.27
	06/01/2016	\$44.72	\$10.00	\$14.30	\$0.00	\$69.02
	12/01/2016	\$45.95	\$10.00	\$14.30	\$0.00	\$70.25
	06/01/2017	\$46.94	\$10.00	\$14.30	\$0.00	\$71.24
	12/01/2017	\$47.93	\$10.00	\$14.30	\$0.00	\$72.23

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

CAISSON & UNDERPINNING BOTTOM MAN	12/01/2014	\$35.70	\$7.30	\$13.15	\$0.00	\$56.15
<i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2015	\$36.45	\$7.30	\$13.15	\$0.00	\$56.90
	12/01/2015	\$37.20	\$7.30	\$13.15	\$0.00	\$57.65
	06/01/2016	\$37.95	\$7.30	\$13.15	\$0.00	\$58.40
	12/01/2016	\$38.95	\$7.30	\$13.15	\$0.00	\$59.40

For apprentice rates see "Apprentice- LABORER"

CAISSON & UNDERPINNING LABORER	12/01/2014	\$34.55	\$7.30	\$13.15	\$0.00	\$55.00
<i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2015	\$35.30	\$7.30	\$13.15	\$0.00	\$55.75
	12/01/2015	\$36.05	\$7.30	\$13.15	\$0.00	\$56.50
	06/01/2016	\$36.80	\$7.30	\$13.15	\$0.00	\$57.25
	12/01/2016	\$37.80	\$7.30	\$13.15	\$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>	12/01/2014	\$34.55	\$7.30	\$13.15	\$0.00	\$55.00
	06/01/2015	\$35.30	\$7.30	\$13.15	\$0.00	\$55.75
	12/01/2015	\$36.05	\$7.30	\$13.15	\$0.00	\$56.50
	06/01/2016	\$36.80	\$7.30	\$13.15	\$0.00	\$57.25
	12/01/2016	\$37.80	\$7.30	\$13.15	\$0.00	\$58.25
For apprentice rates see "Apprentice- LABORER"						
CARBIDE CORE DRILL OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2014	\$30.90	\$7.30	\$12.30	\$0.00	\$50.50
	06/01/2015	\$31.40	\$7.30	\$12.30	\$0.00	\$51.00
	12/01/2015	\$31.90	\$7.30	\$12.30	\$0.00	\$51.50
	06/01/2016	\$32.40	\$7.30	\$12.30	\$0.00	\$52.00
	12/01/2016	\$33.15	\$7.30	\$12.30	\$0.00	\$52.75
For apprentice rates see "Apprentice- LABORER"						
CARPENTER <i>CARPENTERS -ZONE 2 (Eastern Massachusetts)</i>	03/01/2015	\$35.75	\$9.80	\$16.48	\$0.00	\$62.03

Apprentice - CARPENTER - Zone 2 Eastern MA

Effective Date - 03/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$17.88	\$9.80	\$1.63	\$0.00	\$29.31
2	60	\$21.45	\$9.80	\$1.63	\$0.00	\$32.88
3	70	\$25.03	\$9.80	\$11.59	\$0.00	\$46.42
4	75	\$26.81	\$9.80	\$11.59	\$0.00	\$48.20
5	80	\$28.60	\$9.80	\$13.22	\$0.00	\$51.62
6	80	\$28.60	\$9.80	\$13.22	\$0.00	\$51.62
7	90	\$32.18	\$9.80	\$14.85	\$0.00	\$56.83
8	90	\$32.18	\$9.80	\$14.85	\$0.00	\$56.83

Notes:

Apprentice to Journeyworker Ratio:1:5

CEMENT MASONRY/PLASTERING <i>BRICKLAYERS LOCAL 3 (LYNN)</i>	01/01/2015	\$44.90	\$10.90	\$18.71	\$1.30	\$75.81
	07/01/2015	\$45.82	\$10.90	\$18.71	\$1.30	\$76.73
	01/01/2016	\$46.44	\$10.90	\$18.71	\$1.30	\$77.35

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

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

Effective Date - 01/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.45	\$10.90	\$12.21	\$1.30	\$46.86
2	60	\$26.94	\$10.90	\$13.71	\$1.30	\$52.85
3	65	\$29.19	\$10.90	\$14.71	\$1.30	\$56.10
4	70	\$31.43	\$10.90	\$15.71	\$1.30	\$59.34
5	75	\$33.68	\$10.90	\$16.71	\$1.30	\$62.59
6	80	\$35.92	\$10.90	\$17.71	\$1.30	\$65.83
7	90	\$40.41	\$10.90	\$18.71	\$1.30	\$71.32

Effective Date - 07/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.91	\$10.90	\$12.21	\$1.30	\$47.32
2	60	\$27.49	\$10.90	\$13.71	\$1.30	\$53.40
3	65	\$29.78	\$10.90	\$14.71	\$1.30	\$56.69
4	70	\$32.07	\$10.90	\$15.71	\$1.30	\$59.98
5	75	\$34.37	\$10.90	\$16.71	\$1.30	\$63.28
6	80	\$36.66	\$10.90	\$17.71	\$1.30	\$66.57
7	90	\$41.24	\$10.90	\$18.71	\$1.30	\$72.15

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

Apprentice to Journeyworker Ratio:1:3

CHAIN SAW OPERATOR LABORERS - ZONE 2	12/01/2014	\$30.90	\$7.30	\$12.30	\$0.00	\$50.50
	06/01/2015	\$31.40	\$7.30	\$12.30	\$0.00	\$51.00
	12/01/2015	\$31.90	\$7.30	\$12.30	\$0.00	\$51.50
	06/01/2016	\$32.40	\$7.30	\$12.30	\$0.00	\$52.00
	12/01/2016	\$33.15	\$7.30	\$12.30	\$0.00	\$52.75

For apprentice rates see "Apprentice- LABORER"

CLAM SHELLS/SLURRY BUCKETS/HEADING MACHINES OPERATING ENGINEERS LOCAL 4	12/01/2014	\$43.39	\$10.00	\$14.30	\$0.00	\$67.69
	06/01/2015	\$44.14	\$10.00	\$14.30	\$0.00	\$68.44
	12/01/2015	\$45.39	\$10.00	\$14.30	\$0.00	\$69.69
	06/01/2016	\$46.14	\$10.00	\$14.30	\$0.00	\$70.44
	12/01/2016	\$47.39	\$10.00	\$14.30	\$0.00	\$71.69
	06/01/2017	\$48.39	\$10.00	\$14.30	\$0.00	\$72.69
	12/01/2017	\$49.39	\$10.00	\$14.30	\$0.00	\$73.69

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
COMPRESSOR OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2014	\$29.40	\$10.00	\$14.30	\$0.00	\$53.70
	06/01/2015	\$29.92	\$10.00	\$14.30	\$0.00	\$54.22
	12/01/2015	\$30.79	\$10.00	\$14.30	\$0.00	\$55.09
	06/01/2016	\$31.31	\$10.00	\$14.30	\$0.00	\$55.61
	12/01/2016	\$32.18	\$10.00	\$14.30	\$0.00	\$56.48
	06/01/2017	\$32.87	\$10.00	\$14.30	\$0.00	\$57.17
	12/01/2017	\$33.56	\$10.00	\$14.30	\$0.00	\$57.86

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

DELEADER (BRIDGE) <i>PAINTERS LOCAL 35 - ZONE 2</i>	01/01/2015	\$47.66	\$7.85	\$16.10	\$0.00	\$71.61
	07/01/2015	\$48.56	\$7.85	\$16.10	\$0.00	\$72.51
	01/01/2016	\$49.51	\$7.85	\$16.10	\$0.00	\$73.46
	07/01/2016	\$50.46	\$7.85	\$16.10	\$0.00	\$74.41
	01/01/2017	\$51.41	\$7.85	\$16.10	\$0.00	\$75.36

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 01/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.83	\$7.85	\$0.00	\$0.00	\$31.68
2	55	\$26.21	\$7.85	\$3.66	\$0.00	\$37.72
3	60	\$28.60	\$7.85	\$3.99	\$0.00	\$40.44
4	65	\$30.98	\$7.85	\$4.32	\$0.00	\$43.15
5	70	\$33.36	\$7.85	\$14.11	\$0.00	\$55.32
6	75	\$35.75	\$7.85	\$14.44	\$0.00	\$58.04
7	80	\$38.13	\$7.85	\$14.77	\$0.00	\$60.75
8	90	\$42.89	\$7.85	\$15.44	\$0.00	\$66.18

Effective Date - 07/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.28	\$7.85	\$0.00	\$0.00	\$32.13
2	55	\$26.71	\$7.85	\$3.66	\$0.00	\$38.22
3	60	\$29.14	\$7.85	\$3.99	\$0.00	\$40.98
4	65	\$31.56	\$7.85	\$4.32	\$0.00	\$43.73
5	70	\$33.99	\$7.85	\$14.11	\$0.00	\$55.95
6	75	\$36.42	\$7.85	\$14.44	\$0.00	\$58.71
7	80	\$38.85	\$7.85	\$14.77	\$0.00	\$61.47
8	90	\$43.70	\$7.85	\$15.44	\$0.00	\$66.99

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

DEMO: ADZEMAN <i>LABORERS - ZONE 2</i>	12/01/2014	\$34.75	\$7.30	\$12.95	\$0.00	\$55.00
	06/01/2015	\$35.50	\$7.30	\$12.95	\$0.00	\$55.75
	12/01/2015	\$36.25	\$7.30	\$12.95	\$0.00	\$56.50

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
DEMO: BACKHOE/LOADER/HAMMER OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2014	\$35.75	\$7.30	\$12.95	\$0.00	\$56.00
	06/01/2015	\$36.50	\$7.30	\$12.95	\$0.00	\$56.75
	12/01/2015	\$37.25	\$7.30	\$12.95	\$0.00	\$57.50
For apprentice rates see "Apprentice- LABORER"						
DEMO: BURNERS <i>LABORERS - ZONE 2</i>	12/01/2014	\$35.50	\$7.30	\$12.95	\$0.00	\$55.75
	06/01/2015	\$36.25	\$7.30	\$12.95	\$0.00	\$56.50
	12/01/2015	\$37.00	\$7.30	\$12.95	\$0.00	\$57.25
For apprentice rates see "Apprentice- LABORER"						
DEMO: CONCRETE CUTTER/SAWYER <i>LABORERS - ZONE 2</i>	12/01/2014	\$35.75	\$7.30	\$12.95	\$0.00	\$56.00
	06/01/2015	\$36.50	\$7.30	\$12.95	\$0.00	\$56.75
	12/01/2015	\$37.25	\$7.30	\$12.95	\$0.00	\$57.50
For apprentice rates see "Apprentice- LABORER"						
DEMO: JACKHAMMER OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2014	\$35.50	\$7.30	\$12.95	\$0.00	\$55.75
	06/01/2015	\$36.25	\$7.30	\$12.95	\$0.00	\$56.50
	12/01/2015	\$37.00	\$7.30	\$12.95	\$0.00	\$57.25
For apprentice rates see "Apprentice- LABORER"						
DEMO: WRECKING LABORER <i>LABORERS - ZONE 2</i>	12/01/2014	\$34.75	\$7.30	\$12.95	\$0.00	\$55.00
	06/01/2015	\$35.50	\$7.30	\$12.95	\$0.00	\$55.75
	12/01/2015	\$36.25	\$7.30	\$12.95	\$0.00	\$56.50
For apprentice rates see "Apprentice- LABORER"						
DIRECTIONAL DRILL MACHINE OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2014	\$41.99	\$10.00	\$14.30	\$0.00	\$66.29
	06/01/2015	\$42.73	\$10.00	\$14.30	\$0.00	\$67.03
	12/01/2015	\$43.97	\$10.00	\$14.30	\$0.00	\$68.27
	06/01/2016	\$44.72	\$10.00	\$14.30	\$0.00	\$69.02
	12/01/2016	\$45.95	\$10.00	\$14.30	\$0.00	\$70.25
	06/01/2017	\$46.94	\$10.00	\$14.30	\$0.00	\$71.24
	12/01/2017	\$47.93	\$10.00	\$14.30	\$0.00	\$72.23
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
DIVER <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2014	\$58.24	\$9.80	\$18.17	\$0.00	\$86.21
	08/01/2015	\$60.34	\$9.80	\$18.17	\$0.00	\$88.31
DIVER TENDER <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2014	\$41.60	\$9.80	\$18.17	\$0.00	\$69.57
	08/01/2015	\$43.10	\$9.80	\$18.17	\$0.00	\$71.07
DIVER TENDER (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2014	\$62.40	\$9.80	\$18.17	\$0.00	\$90.37
	08/01/2015	\$64.65	\$9.80	\$18.17	\$0.00	\$92.62
DIVER/SLURRY (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2014	\$87.36	\$9.80	\$18.17	\$0.00	\$115.33
	08/01/2015	\$90.51	\$9.80	\$18.17	\$0.00	\$118.48
DRAWBRIDGE OPERATOR (Construction) <i>ELECTRICIANS LOCAL 103</i>	03/01/2015	\$45.17	\$13.00	\$15.40	\$0.00	\$73.57
	09/01/2015	\$46.13	\$13.00	\$15.43	\$0.00	\$74.56
	03/01/2016	\$47.08	\$13.00	\$15.46	\$0.00	\$75.54
For apprentice rates see "Apprentice- ELECTRICIAN"						
ELECTRICIAN <i>ELECTRICIANS LOCAL 103</i>	03/01/2015	\$45.17	\$13.00	\$15.40	\$0.00	\$73.57
	09/01/2015	\$46.13	\$13.00	\$15.43	\$0.00	\$74.56
	03/01/2016	\$47.08	\$13.00	\$15.46	\$0.00	\$75.54

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - ELECTRICIAN - Local 103

Effective Date - 03/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$18.07	\$13.00	\$0.54	\$0.00	\$31.61
2	40	\$18.07	\$13.00	\$0.54	\$0.00	\$31.61
3	45	\$20.33	\$13.00	\$11.64	\$0.00	\$44.97
4	45	\$20.33	\$13.00	\$11.64	\$0.00	\$44.97
5	50	\$22.59	\$13.00	\$11.98	\$0.00	\$47.57
6	55	\$24.84	\$13.00	\$12.33	\$0.00	\$50.17
7	60	\$27.10	\$13.00	\$12.66	\$0.00	\$52.76
8	65	\$29.36	\$13.00	\$13.01	\$0.00	\$55.37
9	70	\$31.62	\$13.00	\$13.35	\$0.00	\$57.97
10	75	\$33.88	\$13.00	\$13.70	\$0.00	\$60.58

Effective Date - 09/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$18.45	\$13.00	\$0.55	\$0.00	\$32.00
2	40	\$18.45	\$13.00	\$0.55	\$0.00	\$32.00
3	45	\$20.76	\$13.00	\$11.65	\$0.00	\$45.41
4	45	\$20.76	\$13.00	\$11.65	\$0.00	\$45.41
5	50	\$23.07	\$13.00	\$11.99	\$0.00	\$48.06
6	55	\$25.37	\$13.00	\$12.34	\$0.00	\$50.71
7	60	\$27.68	\$13.00	\$12.68	\$0.00	\$53.36
8	65	\$29.98	\$13.00	\$13.03	\$0.00	\$56.01
9	70	\$32.29	\$13.00	\$13.37	\$0.00	\$58.66
10	75	\$34.60	\$13.00	\$13.72	\$0.00	\$61.32

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
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Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

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
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For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"

FENCE & GUARD RAIL ERECTOR <i>LABORERS - ZONE 2</i>	12/01/2014	\$30.90	\$7.30	\$12.30	\$0.00	\$50.50
	06/01/2015	\$31.40	\$7.30	\$12.30	\$0.00	\$51.00
	12/01/2015	\$31.90	\$7.30	\$12.30	\$0.00	\$51.50
	06/01/2016	\$32.40	\$7.30	\$12.30	\$0.00	\$52.00
	12/01/2016	\$33.15	\$7.30	\$12.30	\$0.00	\$52.75

For apprentice rates see "Apprentice- LABORER"

FIELD ENG.INST.PERSON-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	11/01/2014	\$39.59	\$10.00	\$14.18	\$0.00	\$63.77
	05/01/2015	\$40.32	\$10.00	\$14.18	\$0.00	\$64.50
	11/01/2015	\$40.90	\$10.00	\$14.18	\$0.00	\$65.08
	05/01/2016	\$41.79	\$10.00	\$14.18	\$0.00	\$65.97
	11/01/2016	\$42.38	\$10.00	\$14.18	\$0.00	\$66.56
	05/01/2017	\$43.26	\$10.00	\$14.18	\$0.00	\$67.44
	11/01/2017	\$43.99	\$10.00	\$14.18	\$0.00	\$68.17
	05/01/2018	\$44.70	\$10.00	\$14.18	\$0.00	\$68.88

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

FIELD ENG.PARTY CHIEF-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	11/01/2014	\$41.02	\$10.00	\$14.18	\$0.00	\$65.20
	05/01/2015	\$41.75	\$10.00	\$14.18	\$0.00	\$65.93
	11/01/2015	\$42.34	\$10.00	\$14.18	\$0.00	\$66.52
	05/01/2016	\$43.23	\$10.00	\$14.18	\$0.00	\$67.41
	11/01/2016	\$43.83	\$10.00	\$14.18	\$0.00	\$68.01
	05/01/2017	\$44.72	\$10.00	\$14.18	\$0.00	\$68.90
	11/01/2017	\$45.45	\$10.00	\$14.18	\$0.00	\$69.63
	05/01/2018	\$46.17	\$10.00	\$14.18	\$0.00	\$70.35

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FIELD ENG.ROD PERSON-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	11/01/2014	\$21.35	\$10.00	\$14.18	\$0.00	\$45.53
	05/01/2015	\$21.78	\$10.00	\$14.18	\$0.00	\$45.96
	11/01/2015	\$22.12	\$10.00	\$14.18	\$0.00	\$46.30
	05/01/2016	\$22.64	\$10.00	\$14.18	\$0.00	\$46.82
	11/01/2016	\$22.99	\$10.00	\$14.18	\$0.00	\$47.17
	05/01/2017	\$23.52	\$10.00	\$14.18	\$0.00	\$47.70
	11/01/2017	\$23.94	\$10.00	\$14.18	\$0.00	\$48.12
	05/01/2018	\$24.37	\$10.00	\$14.18	\$0.00	\$48.55
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FIRE ALARM INSTALLER <i>ELECTRICIANS LOCAL 103</i>	03/01/2015	\$45.17	\$13.00	\$15.40	\$0.00	\$73.57
	09/01/2015	\$46.13	\$13.00	\$15.43	\$0.00	\$74.56
	03/01/2016	\$47.08	\$13.00	\$15.46	\$0.00	\$75.54
For apprentice rates see "Apprentice- ELECTRICIAN"						
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING <i>ELECTRICIANS LOCAL 103</i>	03/01/2015	\$33.88	\$13.00	\$13.70	\$0.00	\$60.58
	09/01/2015	\$34.60	\$13.00	\$13.72	\$0.00	\$61.32
	03/01/2016	\$35.31	\$13.00	\$13.74	\$0.00	\$62.05
For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"						
FIREMAN (ASST. ENGINEER) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2014	\$35.33	\$10.00	\$14.30	\$0.00	\$59.63
	06/01/2015	\$35.95	\$10.00	\$14.30	\$0.00	\$60.25
	12/01/2015	\$37.00	\$10.00	\$14.30	\$0.00	\$61.30
	06/01/2016	\$37.62	\$10.00	\$14.30	\$0.00	\$61.92
	12/01/2016	\$38.66	\$10.00	\$14.30	\$0.00	\$62.96
	06/01/2017	\$39.50	\$10.00	\$14.30	\$0.00	\$63.80
	12/01/2017	\$40.33	\$10.00	\$14.30	\$0.00	\$64.63
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FLAGGER & SIGNALER <i>LABORERS - ZONE 2</i>	12/01/2014	\$20.50	\$7.30	\$12.30	\$0.00	\$40.10
	06/01/2015	\$20.50	\$7.30	\$12.30	\$0.00	\$40.10
	12/01/2015	\$20.50	\$7.30	\$12.30	\$0.00	\$40.10
	06/01/2016	\$20.50	\$7.30	\$12.30	\$0.00	\$40.10
	12/01/2016	\$20.50	\$7.30	\$12.30	\$0.00	\$40.10
For apprentice rates see "Apprentice- LABORER"						
FLOORCOVERER <i>FLOORCOVERERS LOCAL 2168 ZONE 1</i>	09/01/2014	\$40.40	\$9.80	\$17.21	\$0.00	\$67.41

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - FLOORCOVERER - Local 2168 Zone I

Effective Date - 09/01/2014

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.20	\$9.80	\$1.79	\$0.00	\$31.79
2	55	\$22.22	\$9.80	\$1.79	\$0.00	\$33.81
3	60	\$24.24	\$9.80	\$11.84	\$0.00	\$45.88
4	65	\$26.26	\$9.80	\$11.84	\$0.00	\$47.90
5	70	\$28.28	\$9.80	\$13.63	\$0.00	\$51.71
6	75	\$30.30	\$9.80	\$13.63	\$0.00	\$53.73
7	80	\$32.32	\$9.80	\$15.42	\$0.00	\$57.54
8	85	\$34.34	\$9.80	\$15.42	\$0.00	\$59.56

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

FORK LIFT/CHERRY PICKER	12/01/2014	\$42.39	\$10.00	\$14.30	\$0.00	\$66.69
<i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2015	\$43.14	\$10.00	\$14.30	\$0.00	\$67.44
	12/01/2015	\$44.39	\$10.00	\$14.30	\$0.00	\$68.69
	06/01/2016	\$45.14	\$10.00	\$14.30	\$0.00	\$69.44
	12/01/2016	\$46.39	\$10.00	\$14.30	\$0.00	\$70.69
	06/01/2017	\$47.39	\$10.00	\$14.30	\$0.00	\$71.69
	12/01/2017	\$48.39	\$10.00	\$14.30	\$0.00	\$72.69

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

GENERATOR/LIGHTING PLANT/HEATERS	12/01/2014	\$29.40	\$10.00	\$14.30	\$0.00	\$53.70
<i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2015	\$29.92	\$10.00	\$14.30	\$0.00	\$54.22
	12/01/2015	\$30.79	\$10.00	\$14.30	\$0.00	\$55.09
	06/01/2016	\$31.31	\$10.00	\$14.30	\$0.00	\$55.61
	12/01/2016	\$32.18	\$10.00	\$14.30	\$0.00	\$56.48
	06/01/2017	\$32.87	\$10.00	\$14.30	\$0.00	\$57.17
	12/01/2017	\$33.56	\$10.00	\$14.30	\$0.00	\$57.86

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)	01/01/2015	\$37.16	\$7.85	\$16.10	\$0.00	\$61.11
<i>GLAZIERS LOCAL 35 (ZONE 2)</i>	07/01/2015	\$38.06	\$7.85	\$16.10	\$0.00	\$62.01
	01/01/2016	\$39.01	\$7.85	\$16.10	\$0.00	\$62.96
	07/01/2016	\$39.96	\$7.85	\$16.10	\$0.00	\$63.91
	01/01/2017	\$40.91	\$7.85	\$16.10	\$0.00	\$64.86

Apprentice - GLAZIER - Local 35 Zone 2

Effective Date - 01/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.58	\$7.85	\$0.00	\$0.00	\$26.43
2	55	\$20.44	\$7.85	\$3.66	\$0.00	\$31.95
3	60	\$22.30	\$7.85	\$3.99	\$0.00	\$34.14
4	65	\$24.15	\$7.85	\$4.32	\$0.00	\$36.32
5	70	\$26.01	\$7.85	\$14.11	\$0.00	\$47.97
6	75	\$27.87	\$7.85	\$14.44	\$0.00	\$50.16
7	80	\$29.73	\$7.85	\$14.77	\$0.00	\$52.35
8	90	\$33.44	\$7.85	\$15.44	\$0.00	\$56.73

Effective Date - 07/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.03	\$7.85	\$0.00	\$0.00	\$26.88
2	55	\$20.93	\$7.85	\$3.66	\$0.00	\$32.44
3	60	\$22.84	\$7.85	\$3.99	\$0.00	\$34.68
4	65	\$24.74	\$7.85	\$4.32	\$0.00	\$36.91
5	70	\$26.64	\$7.85	\$14.11	\$0.00	\$48.60
6	75	\$28.55	\$7.85	\$14.44	\$0.00	\$50.84
7	80	\$30.45	\$7.85	\$14.77	\$0.00	\$53.07
8	90	\$34.25	\$7.85	\$15.44	\$0.00	\$57.54

Notes:
Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

HOISTING ENGINEER/CRANES/GRADALLS	12/01/2014	\$42.39	\$10.00	\$14.30	\$0.00	\$66.69
OPERATING ENGINEERS LOCAL 4	06/01/2015	\$43.14	\$10.00	\$14.30	\$0.00	\$67.44
	12/01/2015	\$44.39	\$10.00	\$14.30	\$0.00	\$68.69
	06/01/2016	\$45.14	\$10.00	\$14.30	\$0.00	\$69.44
	12/01/2016	\$46.39	\$10.00	\$14.30	\$0.00	\$70.69
	06/01/2017	\$47.39	\$10.00	\$14.30	\$0.00	\$71.69
	12/01/2017	\$48.39	\$10.00	\$14.30	\$0.00	\$72.69

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - OPERATING ENGINEERS - Local 4

Effective Date - 12/01/2014

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$23.31	\$10.00	\$0.00	\$0.00	\$33.31
2	60	\$25.43	\$10.00	\$14.30	\$0.00	\$49.73
3	65	\$27.55	\$10.00	\$14.30	\$0.00	\$51.85
4	70	\$29.67	\$10.00	\$14.30	\$0.00	\$53.97
5	75	\$31.79	\$10.00	\$14.30	\$0.00	\$56.09
6	80	\$33.91	\$10.00	\$14.30	\$0.00	\$58.21
7	85	\$36.03	\$10.00	\$14.30	\$0.00	\$60.33
8	90	\$38.15	\$10.00	\$14.30	\$0.00	\$62.45

Effective Date - 06/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$23.73	\$10.00	\$0.00	\$0.00	\$33.73
2	60	\$25.88	\$10.00	\$14.30	\$0.00	\$50.18
3	65	\$28.04	\$10.00	\$14.30	\$0.00	\$52.34
4	70	\$30.20	\$10.00	\$14.30	\$0.00	\$54.50
5	75	\$32.36	\$10.00	\$14.30	\$0.00	\$56.66
6	80	\$34.51	\$10.00	\$14.30	\$0.00	\$58.81
7	85	\$36.67	\$10.00	\$14.30	\$0.00	\$60.97
8	90	\$38.83	\$10.00	\$14.30	\$0.00	\$63.13

Notes:

Apprentice to Journeyworker Ratio:1:6

HVAC (DUCTWORK) SHEETMETAL WORKERS LOCAL 17 - A	02/01/2015	\$43.28	\$10.20	\$20.54	\$2.22	\$76.24
	08/01/2015	\$44.28	\$10.20	\$20.54	\$2.22	\$77.24
	02/01/2016	\$45.28	\$10.20	\$20.54	\$2.22	\$78.24
	08/01/2016	\$46.43	\$10.20	\$20.54	\$2.22	\$79.39
	02/01/2017	\$47.53	\$10.20	\$20.54	\$2.22	\$80.49
	08/01/2017	\$48.63	\$10.20	\$20.54	\$2.22	\$81.59
	02/01/2018	\$49.78	\$10.20	\$20.54	\$2.22	\$82.74

For apprentice rates see "Apprentice- SHEET METAL WORKER"

HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 103	03/01/2015	\$45.17	\$13.00	\$15.40	\$0.00	\$73.57
	09/01/2015	\$46.13	\$13.00	\$15.43	\$0.00	\$74.56
	03/01/2016	\$47.08	\$13.00	\$15.46	\$0.00	\$75.54

For apprentice rates see "Apprentice- ELECTRICIAN"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
HVAC (TESTING AND BALANCING - AIR) <i>SHEETMETAL WORKERS LOCAL 17 - A</i>	02/01/2015	\$43.28	\$10.20	\$20.54	\$2.22	\$76.24
	08/01/2015	\$44.28	\$10.20	\$20.54	\$2.22	\$77.24
	02/01/2016	\$45.28	\$10.20	\$20.54	\$2.22	\$78.24
	08/01/2016	\$46.43	\$10.20	\$20.54	\$2.22	\$79.39
	02/01/2017	\$47.53	\$10.20	\$20.54	\$2.22	\$80.49
	08/01/2017	\$48.63	\$10.20	\$20.54	\$2.22	\$81.59
	02/01/2018	\$49.78	\$10.20	\$20.54	\$2.22	\$82.74
For apprentice rates see "Apprentice- SHEET METAL WORKER"						
HVAC (TESTING AND BALANCING - WATER) <i>PIPEFITTERS LOCAL 537 (Local 138)</i>	03/01/2015	\$47.36	\$9.20	\$14.64	\$0.00	\$71.20
	09/01/2015	\$48.36	\$9.20	\$14.64	\$0.00	\$72.20
	03/01/2016	\$49.36	\$9.20	\$14.64	\$0.00	\$73.20
	09/01/2016	\$50.36	\$9.20	\$14.64	\$0.00	\$74.20
	03/01/2017	\$51.36	\$9.20	\$14.64	\$0.00	\$75.20
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HVAC MECHANIC <i>PIPEFITTERS LOCAL 537 (Local 138)</i>	03/01/2015	\$47.36	\$9.20	\$14.64	\$0.00	\$71.20
	09/01/2015	\$48.36	\$9.20	\$14.64	\$0.00	\$72.20
	03/01/2016	\$49.36	\$9.20	\$14.64	\$0.00	\$73.20
	09/01/2016	\$50.36	\$9.20	\$14.64	\$0.00	\$74.20
	03/01/2017	\$51.36	\$9.20	\$14.64	\$0.00	\$75.20
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HYDRAULIC DRILLS <i>LABORERS - ZONE 2</i>	12/01/2014	\$31.40	\$7.30	\$12.30	\$0.00	\$51.00
	06/01/2015	\$31.90	\$7.30	\$12.30	\$0.00	\$51.50
	12/01/2015	\$32.40	\$7.30	\$12.30	\$0.00	\$52.00
	06/01/2016	\$32.90	\$7.30	\$12.30	\$0.00	\$52.50
	12/01/2016	\$33.65	\$7.30	\$12.30	\$0.00	\$53.25
For apprentice rates see "Apprentice- LABORER"						
INSULATOR (PIPES & TANKS) <i>HEAT & FROST INSULATORS LOCAL 6 (BOSTON)</i>	09/01/2014	\$43.31	\$11.25	\$12.60	\$0.00	\$67.16

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

Effective Date - 09/01/2014

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.66	\$11.25	\$9.35	\$0.00	\$42.26
2	60	\$25.99	\$11.25	\$10.00	\$0.00	\$47.24
3	70	\$30.32	\$11.25	\$10.65	\$0.00	\$52.22
4	80	\$34.65	\$11.25	\$11.30	\$0.00	\$57.20

Notes:

Steps are 1 year

Apprentice to Journeyworker Ratio:1:4

IRONWORKER/WELDER <i>IRONWORKERS LOCAL 7 (BOSTON AREA)</i>	03/16/2014	\$41.19	\$7.70	\$19.25	\$0.00	\$68.14
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Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - IRONWORKER - Local 7 Boston

Effective Date - 03/16/2014

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$24.71	\$7.70	\$19.25	\$0.00	\$51.66
2	70	\$28.83	\$7.70	\$19.25	\$0.00	\$55.78
3	75	\$30.89	\$7.70	\$19.25	\$0.00	\$57.84
4	80	\$32.95	\$7.70	\$19.25	\$0.00	\$59.90
5	85	\$35.01	\$7.70	\$19.25	\$0.00	\$61.96
6	90	\$37.07	\$7.70	\$19.25	\$0.00	\$64.02

Notes:

** Structural 1:6; Ornamental 1:4

Apprentice to Journeyworker Ratio:**

JACKHAMMER & PAVING BREAKER OPERATOR LABORERS - ZONE 2	12/01/2014	\$30.90	\$7.30	\$12.30	\$0.00	\$50.50
	06/01/2015	\$31.40	\$7.30	\$12.30	\$0.00	\$51.00
	12/01/2015	\$31.90	\$7.30	\$12.30	\$0.00	\$51.50
	06/01/2016	\$32.40	\$7.30	\$12.30	\$0.00	\$52.00
	12/01/2016	\$33.15	\$7.30	\$12.30	\$0.00	\$52.75

For apprentice rates see "Apprentice- LABORER"

LABORER LABORERS - ZONE 2	12/01/2014	\$30.65	\$7.30	\$12.30	\$0.00	\$50.25
	06/01/2015	\$31.15	\$7.30	\$12.30	\$0.00	\$50.75
	12/01/2015	\$31.65	\$7.30	\$12.30	\$0.00	\$51.25
	06/01/2016	\$32.15	\$7.30	\$12.30	\$0.00	\$51.75
	12/01/2016	\$32.90	\$7.30	\$12.30	\$0.00	\$52.50

Apprentice - LABORER - Zone 2

Effective Date - 12/01/2014

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$18.39	\$7.30	\$12.30	\$0.00	\$37.99
2	70	\$21.46	\$7.30	\$12.30	\$0.00	\$41.06
3	80	\$24.52	\$7.30	\$12.30	\$0.00	\$44.12
4	90	\$27.59	\$7.30	\$12.30	\$0.00	\$47.19

Effective Date - 06/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$18.69	\$7.30	\$12.30	\$0.00	\$38.29
2	70	\$21.81	\$7.30	\$12.30	\$0.00	\$41.41
3	80	\$24.92	\$7.30	\$12.30	\$0.00	\$44.52
4	90	\$28.04	\$7.30	\$12.30	\$0.00	\$47.64

Notes:

Apprentice to Journeyworker Ratio:1:5

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER: CARPENTER TENDER <i>LABORERS - ZONE 2</i>	12/01/2014	\$30.65	\$7.30	\$12.30	\$0.00	\$50.25
	06/01/2015	\$31.15	\$7.30	\$12.30	\$0.00	\$50.75
	12/01/2015	\$31.65	\$7.30	\$12.30	\$0.00	\$51.25
	06/01/2016	\$32.15	\$7.30	\$12.30	\$0.00	\$51.75
	12/01/2016	\$32.90	\$7.30	\$12.30	\$0.00	\$52.50
For apprentice rates see "Apprentice- LABORER"						
LABORER: CEMENT FINISHER TENDER <i>LABORERS - ZONE 2</i>	12/01/2014	\$30.65	\$7.30	\$12.30	\$0.00	\$50.25
	06/01/2015	\$31.15	\$7.30	\$12.30	\$0.00	\$50.75
	12/01/2015	\$31.65	\$7.30	\$12.30	\$0.00	\$51.25
	06/01/2016	\$32.15	\$7.30	\$12.30	\$0.00	\$51.75
	12/01/2016	\$32.90	\$7.30	\$12.30	\$0.00	\$52.50
For apprentice rates see "Apprentice- LABORER"						
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER <i>LABORERS - ZONE 2</i>	12/01/2014	\$30.85	\$7.30	\$12.25	\$0.00	\$50.40
	06/01/2015	\$31.35	\$7.30	\$12.25	\$0.00	\$50.90
	12/01/2015	\$31.85	\$7.30	\$12.25	\$0.00	\$51.40
For apprentice rates see "Apprentice- LABORER"						
LABORER: MASON TENDER <i>LABORERS - ZONE 2</i>	12/01/2014	\$30.90	\$7.30	\$12.30	\$0.00	\$50.50
	06/01/2015	\$31.40	\$7.30	\$12.30	\$0.00	\$51.00
	12/01/2015	\$31.90	\$7.30	\$12.30	\$0.00	\$51.50
	06/01/2016	\$32.40	\$7.30	\$12.30	\$0.00	\$52.00
	12/01/2016	\$33.15	\$7.30	\$12.30	\$0.00	\$52.75
For apprentice rates see "Apprentice- LABORER"						
LABORER: MULTI-TRADE TENDER <i>LABORERS - ZONE 2</i>	12/01/2014	\$30.65	\$7.30	\$12.30	\$0.00	\$50.25
	06/01/2015	\$31.15	\$7.30	\$12.30	\$0.00	\$50.75
	12/01/2015	\$31.65	\$7.30	\$12.30	\$0.00	\$51.25
	06/01/2016	\$32.15	\$7.30	\$12.30	\$0.00	\$51.75
	12/01/2016	\$32.90	\$7.30	\$12.30	\$0.00	\$52.50
For apprentice rates see "Apprentice- LABORER"						
LABORER: TREE REMOVER <i>LABORERS - ZONE 2</i>	12/01/2014	\$30.65	\$7.30	\$12.30	\$0.00	\$50.25
	06/01/2015	\$31.15	\$7.30	\$12.30	\$0.00	\$50.75
	12/01/2015	\$31.65	\$7.30	\$12.30	\$0.00	\$51.25
	06/01/2016	\$32.15	\$7.30	\$12.30	\$0.00	\$51.75
	12/01/2016	\$32.90	\$7.30	\$12.30	\$0.00	\$52.50
This classification applies to all tree work associated with the removal of standing trees, and trimming and removal of branches and limbs when the work is not done for a utility company for the purpose of operation, maintenance or repair of utility company equipment. For apprentice rates see "Apprentice- LABORER"						
LASER BEAM OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2014	\$30.90	\$7.30	\$12.30	\$0.00	\$50.50
	06/01/2015	\$31.40	\$7.30	\$12.30	\$0.00	\$51.00
	12/01/2015	\$31.90	\$7.30	\$12.30	\$0.00	\$51.50
	06/01/2016	\$32.40	\$7.30	\$12.30	\$0.00	\$52.00
	12/01/2016	\$33.15	\$7.30	\$12.30	\$0.00	\$52.75
For apprentice rates see "Apprentice- LABORER"						
MARBLE & TILE FINISHERS <i>BRICKLAYERS LOCAL 3 - MARBLE & TILE</i>	02/01/2015	\$37.37	\$10.18	\$17.18	\$0.00	\$64.73
	08/01/2015	\$38.08	\$10.18	\$17.25	\$0.00	\$65.51
	02/01/2016	\$38.53	\$10.18	\$17.25	\$0.00	\$65.96
	08/01/2016	\$39.23	\$10.18	\$17.33	\$0.00	\$66.74
	02/01/2017	\$39.69	\$10.18	\$17.33	\$0.00	\$67.20

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

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

Effective Date - 02/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.69	\$10.18	\$17.18	\$0.00	\$46.05
2	60	\$22.42	\$10.18	\$17.18	\$0.00	\$49.78
3	70	\$26.16	\$10.18	\$17.18	\$0.00	\$53.52
4	80	\$29.90	\$10.18	\$17.18	\$0.00	\$57.26
5	90	\$33.63	\$10.18	\$17.18	\$0.00	\$60.99

Effective Date - 08/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.04	\$10.18	\$17.25	\$0.00	\$46.47
2	60	\$22.85	\$10.18	\$17.25	\$0.00	\$50.28
3	70	\$26.66	\$10.18	\$17.25	\$0.00	\$54.09
4	80	\$30.46	\$10.18	\$17.25	\$0.00	\$57.89
5	90	\$34.27	\$10.18	\$17.25	\$0.00	\$61.70

Notes:

Apprentice to Journeyworker Ratio:1:3

MARBLE MASONS, TILELAYERS & TERRAZZO MECH	02/01/2015	\$49.00	\$10.18	\$18.50	\$0.00	\$77.68
BRICKLAYERS LOCAL 3 - MARBLE & TILE	08/01/2015	\$49.90	\$10.18	\$18.57	\$0.00	\$78.65
	02/01/2016	\$50.47	\$10.18	\$18.57	\$0.00	\$79.22
	08/01/2016	\$51.37	\$10.18	\$18.65	\$0.00	\$80.20
	02/01/2017	\$51.94	\$10.18	\$18.65	\$0.00	\$80.77

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

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

Effective Date - 02/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.50	\$10.18	\$18.50	\$0.00	\$53.18
2	60	\$29.40	\$10.18	\$18.50	\$0.00	\$58.08
3	70	\$34.30	\$10.18	\$18.50	\$0.00	\$62.98
4	80	\$39.20	\$10.18	\$18.50	\$0.00	\$67.88
5	90	\$44.10	\$10.18	\$18.50	\$0.00	\$72.78

Effective Date - 08/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.95	\$10.18	\$18.57	\$0.00	\$53.70
2	60	\$29.94	\$10.18	\$18.57	\$0.00	\$58.69
3	70	\$34.93	\$10.18	\$18.57	\$0.00	\$63.68
4	80	\$39.92	\$10.18	\$18.57	\$0.00	\$68.67
5	90	\$44.91	\$10.18	\$18.57	\$0.00	\$73.66

Notes:

Apprentice to Journeyworker Ratio:1:5

MECH. SWEEPER OPERATOR (ON CONST. SITES) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2014	\$41.99	\$10.00	\$14.30	\$0.00	\$66.29
	06/01/2015	\$42.73	\$10.00	\$14.30	\$0.00	\$67.03
	12/01/2015	\$43.97	\$10.00	\$14.30	\$0.00	\$68.27
	06/01/2016	\$44.72	\$10.00	\$14.30	\$0.00	\$69.02
	12/01/2016	\$45.95	\$10.00	\$14.30	\$0.00	\$70.25
	06/01/2017	\$46.94	\$10.00	\$14.30	\$0.00	\$71.24
	12/01/2017	\$47.93	\$10.00	\$14.30	\$0.00	\$72.23

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MECHANICS MAINTENANCE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2014	\$41.99	\$10.00	\$14.30	\$0.00	\$66.29
	06/01/2015	\$42.73	\$10.00	\$14.30	\$0.00	\$67.03
	12/01/2015	\$43.97	\$10.00	\$14.30	\$0.00	\$68.27
	06/01/2016	\$44.72	\$10.00	\$14.30	\$0.00	\$69.02
	12/01/2016	\$45.95	\$10.00	\$14.30	\$0.00	\$70.25
	06/01/2017	\$46.94	\$10.00	\$14.30	\$0.00	\$71.24
	12/01/2017	\$47.93	\$10.00	\$14.30	\$0.00	\$72.23

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MILLWRIGHT (Zone 2) <i>MILLWRIGHTS LOCAL 1121 - Zone 2</i>	10/01/2014	\$33.92	\$9.80	\$16.21	\$0.00	\$59.93
	04/01/2015	\$34.69	\$9.80	\$16.21	\$0.00	\$60.70

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - MILLWRIGHT - Local 1121 Zone 2

Effective Date - 10/01/2014

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$18.66	\$9.80	\$4.48	\$0.00	\$32.94
2	65	\$22.05	\$9.80	\$13.36	\$0.00	\$45.21
3	75	\$25.44	\$9.80	\$14.18	\$0.00	\$49.42
4	85	\$28.83	\$9.80	\$14.99	\$0.00	\$53.62

Effective Date - 04/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$19.08	\$9.80	\$4.48	\$0.00	\$33.36
2	65	\$22.55	\$9.80	\$13.36	\$0.00	\$45.71
3	75	\$26.02	\$9.80	\$14.18	\$0.00	\$50.00
4	85	\$29.49	\$9.80	\$14.99	\$0.00	\$54.28

Notes:

Steps are 2,000 hours

Apprentice to Journeyworker Ratio:1:5

MORTAR MIXER LABORERS - ZONE 2	12/01/2014	\$30.90	\$7.30	\$12.30	\$0.00	\$50.50
	06/01/2015	\$31.40	\$7.30	\$12.30	\$0.00	\$51.00
	12/01/2015	\$31.90	\$7.30	\$12.30	\$0.00	\$51.50
	06/01/2016	\$32.40	\$7.30	\$12.30	\$0.00	\$52.00
	12/01/2016	\$33.15	\$7.30	\$12.30	\$0.00	\$52.75

For apprentice rates see "Apprentice- LABORER"

OILER (OTHER THAN TRUCK CRANES,GRADALLS) OPERATING ENGINEERS LOCAL 4	12/01/2014	\$21.90	\$10.00	\$14.30	\$0.00	\$46.20
	06/01/2015	\$22.28	\$10.00	\$14.30	\$0.00	\$46.58
	12/01/2015	\$22.93	\$10.00	\$14.30	\$0.00	\$47.23
	06/01/2016	\$23.32	\$10.00	\$14.30	\$0.00	\$47.62
	12/01/2016	\$23.97	\$10.00	\$14.30	\$0.00	\$48.27
	06/01/2017	\$24.48	\$10.00	\$14.30	\$0.00	\$48.78
	12/01/2017	\$25.00	\$10.00	\$14.30	\$0.00	\$49.30

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

OILER (TRUCK CRANES, GRADALLS) OPERATING ENGINEERS LOCAL 4	12/01/2014	\$25.54	\$10.00	\$14.30	\$0.00	\$49.84
	06/01/2015	\$25.99	\$10.00	\$14.30	\$0.00	\$50.29
	12/01/2015	\$26.74	\$10.00	\$14.30	\$0.00	\$51.04
	06/01/2016	\$27.20	\$10.00	\$14.30	\$0.00	\$51.50
	12/01/2016	\$27.95	\$10.00	\$14.30	\$0.00	\$52.25
	06/01/2017	\$28.55	\$10.00	\$14.30	\$0.00	\$52.85
	12/01/2017	\$29.16	\$10.00	\$14.30	\$0.00	\$53.46

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
OTHER POWER DRIVEN EQUIPMENT - CLASS II <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2014	\$41.99	\$10.00	\$14.30	\$0.00	\$66.29
	06/01/2015	\$42.73	\$10.00	\$14.30	\$0.00	\$67.03
	12/01/2015	\$43.97	\$10.00	\$14.30	\$0.00	\$68.27
	06/01/2016	\$44.72	\$10.00	\$14.30	\$0.00	\$69.02
	12/01/2016	\$45.95	\$10.00	\$14.30	\$0.00	\$70.25
	06/01/2017	\$46.94	\$10.00	\$14.30	\$0.00	\$71.24
	12/01/2017	\$47.93	\$10.00	\$14.30	\$0.00	\$72.23

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

PAINTER (BRIDGES/TANKS) <i>PAINTERS LOCAL 35 - ZONE 2</i>	01/01/2015	\$47.66	\$7.85	\$16.10	\$0.00	\$71.61
	07/01/2015	\$48.56	\$7.85	\$16.10	\$0.00	\$72.51
	01/01/2016	\$49.51	\$7.85	\$16.10	\$0.00	\$73.46
	07/01/2016	\$50.46	\$7.85	\$16.10	\$0.00	\$74.41
	01/01/2017	\$51.41	\$7.85	\$16.10	\$0.00	\$75.36

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 01/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.83	\$7.85	\$0.00	\$0.00	\$31.68
2	55	\$26.21	\$7.85	\$3.66	\$0.00	\$37.72
3	60	\$28.60	\$7.85	\$3.99	\$0.00	\$40.44
4	65	\$30.98	\$7.85	\$4.32	\$0.00	\$43.15
5	70	\$33.36	\$7.85	\$14.11	\$0.00	\$55.32
6	75	\$35.75	\$7.85	\$14.44	\$0.00	\$58.04
7	80	\$38.13	\$7.85	\$14.77	\$0.00	\$60.75
8	90	\$42.89	\$7.85	\$15.44	\$0.00	\$66.18

Effective Date - 07/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.28	\$7.85	\$0.00	\$0.00	\$32.13
2	55	\$26.71	\$7.85	\$3.66	\$0.00	\$38.22
3	60	\$29.14	\$7.85	\$3.99	\$0.00	\$40.98
4	65	\$31.56	\$7.85	\$4.32	\$0.00	\$43.73
5	70	\$33.99	\$7.85	\$14.11	\$0.00	\$55.95
6	75	\$36.42	\$7.85	\$14.44	\$0.00	\$58.71
7	80	\$38.85	\$7.85	\$14.77	\$0.00	\$61.47
8	90	\$43.70	\$7.85	\$15.44	\$0.00	\$66.99

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SPRAY OR SANDBLAST, NEW) * * If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. <i>PAINTERS LOCAL 35 - ZONE 2</i>	01/01/2015	\$38.56	\$7.85	\$16.10	\$0.00	\$62.51
	07/01/2015	\$39.46	\$7.85	\$16.10	\$0.00	\$63.41
	01/01/2016	\$40.41	\$7.85	\$16.10	\$0.00	\$64.36
	07/01/2016	\$41.36	\$7.85	\$16.10	\$0.00	\$65.31
	01/01/2017	\$42.31	\$7.85	\$16.10	\$0.00	\$66.26

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

Effective Date - 01/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.28	\$7.85	\$0.00	\$0.00	\$27.13
2	55	\$21.21	\$7.85	\$3.66	\$0.00	\$32.72
3	60	\$23.14	\$7.85	\$3.99	\$0.00	\$34.98
4	65	\$25.06	\$7.85	\$4.32	\$0.00	\$37.23
5	70	\$26.99	\$7.85	\$14.11	\$0.00	\$48.95
6	75	\$28.92	\$7.85	\$14.44	\$0.00	\$51.21
7	80	\$30.85	\$7.85	\$14.77	\$0.00	\$53.47
8	90	\$34.70	\$7.85	\$15.44	\$0.00	\$57.99

Effective Date - 07/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.73	\$7.85	\$0.00	\$0.00	\$27.58
2	55	\$21.70	\$7.85	\$3.66	\$0.00	\$33.21
3	60	\$23.68	\$7.85	\$3.99	\$0.00	\$35.52
4	65	\$25.65	\$7.85	\$4.32	\$0.00	\$37.82
5	70	\$27.62	\$7.85	\$14.11	\$0.00	\$49.58
6	75	\$29.60	\$7.85	\$14.44	\$0.00	\$51.89
7	80	\$31.57	\$7.85	\$14.77	\$0.00	\$54.19
8	90	\$35.51	\$7.85	\$15.44	\$0.00	\$58.80

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SPRAY OR SANDBLAST, REPAINT)	01/01/2015	\$36.62	\$7.85	\$16.10	\$0.00	\$60.57
PAINTERS LOCAL 35 - ZONE 2	07/01/2015	\$37.52	\$7.85	\$16.10	\$0.00	\$61.47
	01/01/2016	\$38.47	\$7.85	\$16.10	\$0.00	\$62.42
	07/01/2016	\$39.42	\$7.85	\$16.10	\$0.00	\$63.37
	01/01/2017	\$40.37	\$7.85	\$16.10	\$0.00	\$64.32

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

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

Effective Date - 01/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.31	\$7.85	\$0.00	\$0.00	\$26.16
2	55	\$20.14	\$7.85	\$3.66	\$0.00	\$31.65
3	60	\$21.97	\$7.85	\$3.99	\$0.00	\$33.81
4	65	\$23.80	\$7.85	\$4.32	\$0.00	\$35.97
5	70	\$25.63	\$7.85	\$14.11	\$0.00	\$47.59
6	75	\$27.47	\$7.85	\$14.44	\$0.00	\$49.76
7	80	\$29.30	\$7.85	\$14.77	\$0.00	\$51.92
8	90	\$32.96	\$7.85	\$15.44	\$0.00	\$56.25

Effective Date - 07/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.76	\$7.85	\$0.00	\$0.00	\$26.61
2	55	\$20.64	\$7.85	\$3.66	\$0.00	\$32.15
3	60	\$22.51	\$7.85	\$3.99	\$0.00	\$34.35
4	65	\$24.39	\$7.85	\$4.32	\$0.00	\$36.56
5	70	\$26.26	\$7.85	\$14.11	\$0.00	\$48.22
6	75	\$28.14	\$7.85	\$14.44	\$0.00	\$50.43
7	80	\$30.02	\$7.85	\$14.77	\$0.00	\$52.64
8	90	\$33.77	\$7.85	\$15.44	\$0.00	\$57.06

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (TRAFFIC MARKINGS)	12/01/2014	\$30.65	\$7.30	\$12.30	\$0.00	\$50.25
LABORERS - ZONE 2	06/01/2015	\$31.15	\$7.30	\$12.30	\$0.00	\$50.75
	12/01/2015	\$31.65	\$7.30	\$12.30	\$0.00	\$51.25
	06/01/2016	\$32.15	\$7.30	\$12.30	\$0.00	\$51.75
	12/01/2016	\$32.90	\$7.30	\$12.30	\$0.00	\$52.50

For Apprentice rates see "Apprentice- LABORER"

PAINTER / TAPER (BRUSH, NEW) *	01/01/2015	\$37.16	\$7.85	\$16.10	\$0.00	\$61.11
* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 - ZONE 2	07/01/2015	\$38.06	\$7.85	\$16.10	\$0.00	\$62.01
	01/01/2016	\$39.01	\$7.85	\$16.10	\$0.00	\$62.96
	07/01/2016	\$39.96	\$7.85	\$16.10	\$0.00	\$63.91
	01/01/2017	\$40.91	\$7.85	\$16.10	\$0.00	\$64.86

Apprentice - PAINTER - Local 35 Zone 2 - BRUSH NEW

Effective Date - 01/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.58	\$7.85	\$0.00	\$0.00	\$26.43
2	55	\$20.44	\$7.85	\$3.66	\$0.00	\$31.95
3	60	\$22.30	\$7.85	\$3.99	\$0.00	\$34.14
4	65	\$24.15	\$7.85	\$4.32	\$0.00	\$36.32
5	70	\$26.01	\$7.85	\$14.11	\$0.00	\$47.97
6	75	\$27.87	\$7.85	\$14.44	\$0.00	\$50.16
7	80	\$29.73	\$7.85	\$14.77	\$0.00	\$52.35
8	90	\$33.44	\$7.85	\$15.44	\$0.00	\$56.73

Effective Date - 07/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.03	\$7.85	\$0.00	\$0.00	\$26.88
2	55	\$20.93	\$7.85	\$3.66	\$0.00	\$32.44
3	60	\$22.84	\$7.85	\$3.99	\$0.00	\$34.68
4	65	\$24.74	\$7.85	\$4.32	\$0.00	\$36.91
5	70	\$26.64	\$7.85	\$14.11	\$0.00	\$48.60
6	75	\$28.55	\$7.85	\$14.44	\$0.00	\$50.84
7	80	\$30.45	\$7.85	\$14.77	\$0.00	\$53.07
8	90	\$34.25	\$7.85	\$15.44	\$0.00	\$57.54

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER / TAPER (BRUSH, REPAINT)	01/01/2015	\$35.22	\$7.85	\$16.10	\$0.00	\$59.17
PAINTERS LOCAL 35 - ZONE 2	07/01/2015	\$36.12	\$7.85	\$16.10	\$0.00	\$60.07
	01/01/2016	\$37.07	\$7.85	\$16.10	\$0.00	\$61.02
	07/01/2016	\$38.02	\$7.85	\$16.10	\$0.00	\$61.97
	01/01/2017	\$38.97	\$7.85	\$16.10	\$0.00	\$62.92

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 Zone 2 - BRUSH REPAINT

Effective Date - 01/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$17.61	\$7.85	\$0.00	\$0.00	\$25.46
2	55	\$19.37	\$7.85	\$3.66	\$0.00	\$30.88
3	60	\$21.13	\$7.85	\$3.99	\$0.00	\$32.97
4	65	\$22.89	\$7.85	\$4.32	\$0.00	\$35.06
5	70	\$24.65	\$7.85	\$14.11	\$0.00	\$46.61
6	75	\$26.42	\$7.85	\$14.44	\$0.00	\$48.71
7	80	\$28.18	\$7.85	\$14.77	\$0.00	\$50.80
8	90	\$31.70	\$7.85	\$15.44	\$0.00	\$54.99

Effective Date - 07/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.06	\$7.85	\$0.00	\$0.00	\$25.91
2	55	\$19.87	\$7.85	\$3.66	\$0.00	\$31.38
3	60	\$21.67	\$7.85	\$3.99	\$0.00	\$33.51
4	65	\$23.48	\$7.85	\$4.32	\$0.00	\$35.65
5	70	\$25.28	\$7.85	\$14.11	\$0.00	\$47.24
6	75	\$27.09	\$7.85	\$14.44	\$0.00	\$49.38
7	80	\$28.90	\$7.85	\$14.77	\$0.00	\$51.52
8	90	\$32.51	\$7.85	\$15.44	\$0.00	\$55.80

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PANEL & PICKUP TRUCKS DRIVER <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2012	\$30.28	\$9.07	\$8.00	\$0.00	\$47.35
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK) <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2014	\$41.60	\$9.80	\$18.17	\$0.00	\$69.57
	08/01/2015	\$43.10	\$9.80	\$18.17	\$0.00	\$71.07
PILE DRIVER <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2014	\$41.60	\$9.80	\$18.17	\$0.00	\$69.57
	08/01/2015	\$43.10	\$9.80	\$18.17	\$0.00	\$71.07

Apprentice - PILE DRIVER - Local 56 Zone 1

Effective Date - 08/01/2014

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.80	\$9.80	\$18.17	\$0.00	\$48.77
2	60	\$24.96	\$9.80	\$18.17	\$0.00	\$52.93
3	70	\$29.12	\$9.80	\$18.17	\$0.00	\$57.09
4	75	\$31.20	\$9.80	\$18.17	\$0.00	\$59.17
5	80	\$33.28	\$9.80	\$18.17	\$0.00	\$61.25
6	80	\$33.28	\$9.80	\$18.17	\$0.00	\$61.25
7	90	\$37.44	\$9.80	\$18.17	\$0.00	\$65.41
8	90	\$37.44	\$9.80	\$18.17	\$0.00	\$65.41

Effective Date - 08/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.55	\$9.80	\$18.17	\$0.00	\$49.52
2	60	\$25.86	\$9.80	\$18.17	\$0.00	\$53.83
3	70	\$30.17	\$9.80	\$18.17	\$0.00	\$58.14
4	75	\$32.33	\$9.80	\$18.17	\$0.00	\$60.30
5	80	\$34.48	\$9.80	\$18.17	\$0.00	\$62.45
6	80	\$34.48	\$9.80	\$18.17	\$0.00	\$62.45
7	90	\$38.79	\$9.80	\$18.17	\$0.00	\$66.76
8	90	\$38.79	\$9.80	\$18.17	\$0.00	\$66.76

Notes:

Apprentice to Journeyworker Ratio:1:3

PIPEFITTER & STEAMFITTER	03/01/2015	\$47.36	\$9.20	\$14.64	\$0.00	\$71.20
PIPEFITTERS LOCAL 537 (Local 138)	09/01/2015	\$48.36	\$9.20	\$14.64	\$0.00	\$72.20
	03/01/2016	\$49.36	\$9.20	\$14.64	\$0.00	\$73.20
	09/01/2016	\$50.36	\$9.20	\$14.64	\$0.00	\$74.20
	03/01/2017	\$51.36	\$9.20	\$14.64	\$0.00	\$75.20

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PIPEFITTER Local 537 (Local 138)

Effective Date - 03/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$18.94	\$9.20	\$5.50	\$0.00	\$33.64
2	45	\$21.31	\$9.20	\$14.64	\$0.00	\$45.15
3	60	\$28.42	\$9.20	\$14.64	\$0.00	\$52.26
4	70	\$33.15	\$9.20	\$14.64	\$0.00	\$56.99
5	80	\$37.89	\$9.20	\$14.64	\$0.00	\$61.73

Effective Date - 09/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$19.34	\$9.20	\$5.50	\$0.00	\$34.04
2	45	\$21.76	\$9.20	\$14.64	\$0.00	\$45.60
3	60	\$29.02	\$9.20	\$14.64	\$0.00	\$52.86
4	70	\$33.85	\$9.20	\$14.64	\$0.00	\$57.69
5	80	\$38.69	\$9.20	\$14.64	\$0.00	\$62.53

Notes:

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

Apprentice to Journeyworker Ratio:**

PIPELAYER	12/01/2014	\$30.90	\$7.30	\$12.30	\$0.00	\$50.50
LABORERS - ZONE 2	06/01/2015	\$31.40	\$7.30	\$12.30	\$0.00	\$51.00
	12/01/2015	\$31.90	\$7.30	\$12.30	\$0.00	\$51.50
	06/01/2016	\$32.40	\$7.30	\$12.30	\$0.00	\$52.00
	12/01/2016	\$33.15	\$7.30	\$12.30	\$0.00	\$52.75

For apprentice rates see "Apprentice- LABORER"

PLUMBER	03/01/2015	\$46.58	\$10.32	\$14.54	\$0.00	\$71.44
PLUMBERS & GASFITTERS LOCAL 12 (Local 138)	09/01/2015	\$47.58	\$10.32	\$14.54	\$0.00	\$72.44
	03/01/2016	\$48.73	\$10.32	\$14.54	\$0.00	\$73.59
	09/01/2016	\$49.78	\$10.32	\$14.54	\$0.00	\$74.64
	03/01/2017	\$50.78	\$10.32	\$14.54	\$0.00	\$75.64

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

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

Effective Date - 03/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$16.30	\$10.32	\$5.42	\$0.00	\$32.04
2	40	\$18.63	\$10.32	\$6.11	\$0.00	\$35.06
3	55	\$25.62	\$10.32	\$8.22	\$0.00	\$44.16
4	65	\$30.28	\$10.32	\$9.62	\$0.00	\$50.22
5	75	\$34.94	\$10.32	\$11.03	\$0.00	\$56.29

Effective Date - 09/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$16.65	\$10.32	\$5.42	\$0.00	\$32.39
2	40	\$19.03	\$10.32	\$6.12	\$0.00	\$35.47
3	55	\$26.17	\$10.32	\$8.22	\$0.00	\$44.71
4	65	\$30.93	\$10.32	\$9.63	\$0.00	\$50.88
5	75	\$35.69	\$10.32	\$11.04	\$0.00	\$57.05

Notes:

Steps are 1 yr
Step 4 with lic\$53.27 Step5 with lic\$59.32

Apprentice to Journeyworker Ratio:1:5

PNEUMATIC CONTROLS (TEMP.) <i>PIPEFITTERS LOCAL 537 (Local 138)</i>	03/01/2015	\$47.36	\$9.20	\$14.64	\$0.00	\$71.20
	09/01/2015	\$48.36	\$9.20	\$14.64	\$0.00	\$72.20
	03/01/2016	\$49.36	\$9.20	\$14.64	\$0.00	\$73.20
	09/01/2016	\$50.36	\$9.20	\$14.64	\$0.00	\$74.20
	03/01/2017	\$51.36	\$9.20	\$14.64	\$0.00	\$75.20

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

PNEUMATIC DRILL/TOOL OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2014	\$30.90	\$7.30	\$12.30	\$0.00	\$50.50
	06/01/2015	\$31.40	\$7.30	\$12.30	\$0.00	\$51.00
	12/01/2015	\$31.90	\$7.30	\$12.30	\$0.00	\$51.50
	06/01/2016	\$32.40	\$7.30	\$12.30	\$0.00	\$52.00
	12/01/2016	\$33.15	\$7.30	\$12.30	\$0.00	\$52.75

For apprentice rates see "Apprentice- LABORER"

POWDERMAN & BLASTER <i>LABORERS - ZONE 2</i>	12/01/2014	\$31.65	\$7.30	\$12.30	\$0.00	\$51.25
	06/01/2015	\$32.15	\$7.30	\$12.30	\$0.00	\$51.75
	12/01/2015	\$32.65	\$7.30	\$12.30	\$0.00	\$52.25
	06/01/2016	\$33.15	\$7.30	\$12.30	\$0.00	\$52.75
	12/01/2016	\$33.90	\$7.30	\$12.30	\$0.00	\$53.50

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>	12/01/2014	\$42.39	\$10.00	\$14.30	\$0.00	\$66.69
	06/01/2015	\$43.14	\$10.00	\$14.30	\$0.00	\$67.44
	12/01/2015	\$44.39	\$10.00	\$14.30	\$0.00	\$68.69
	06/01/2016	\$45.14	\$10.00	\$14.30	\$0.00	\$69.44
	12/01/2016	\$46.39	\$10.00	\$14.30	\$0.00	\$70.69
	06/01/2017	\$47.39	\$10.00	\$14.30	\$0.00	\$71.69
	12/01/2017	\$48.39	\$10.00	\$14.30	\$0.00	\$72.69
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (CONCRETE) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2014	\$42.39	\$10.00	\$14.30	\$0.00	\$66.69
	06/01/2015	\$43.14	\$10.00	\$14.30	\$0.00	\$67.44
	12/01/2015	\$44.39	\$10.00	\$14.30	\$0.00	\$68.69
	06/01/2016	\$45.14	\$10.00	\$14.30	\$0.00	\$69.44
	12/01/2016	\$46.39	\$10.00	\$14.30	\$0.00	\$70.69
	06/01/2017	\$47.39	\$10.00	\$14.30	\$0.00	\$71.69
	12/01/2017	\$48.39	\$10.00	\$14.30	\$0.00	\$72.69
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (DEWATERING, OTHER) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2014	\$29.40	\$10.00	\$14.30	\$0.00	\$53.70
	06/01/2015	\$29.92	\$10.00	\$14.30	\$0.00	\$54.22
	12/01/2015	\$30.79	\$10.00	\$14.30	\$0.00	\$55.09
	06/01/2016	\$31.31	\$10.00	\$14.30	\$0.00	\$55.61
	12/01/2016	\$32.18	\$10.00	\$14.30	\$0.00	\$56.48
	06/01/2017	\$32.87	\$10.00	\$14.30	\$0.00	\$57.17
	12/01/2017	\$33.56	\$10.00	\$14.30	\$0.00	\$57.86
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
READY-MIX CONCRETE DRIVER <i>TEAMSTERS LOCAL 42</i>	11/01/2014	\$21.92	\$8.49	\$9.24	\$0.00	\$39.65
	04/30/2015	\$21.92	\$8.49	\$9.49	\$0.00	\$39.90
	05/01/2015	\$22.66	\$8.49	\$9.89	\$0.00	\$41.04
	11/01/2015	\$22.78	\$8.49	\$9.89	\$0.00	\$41.16
	04/30/2016	\$22.78	\$8.49	\$10.25	\$0.00	\$41.52
	05/01/2016	\$24.15	\$8.49	\$10.68	\$0.00	\$43.32
	04/30/2017	\$24.15	\$8.49	\$11.07	\$0.00	\$43.71
	05/01/2017	\$24.21	\$8.49	\$11.54	\$0.00	\$44.24
	04/30/2018	\$24.21	\$8.49	\$11.96	\$0.00	\$44.66
	05/01/2018	\$24.24	\$8.49	\$12.46	\$0.00	\$45.19
	04/30/2019	\$24.24	\$8.49	\$12.92	\$0.00	\$45.65
RECLAIMERS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2014	\$41.99	\$10.00	\$14.30	\$0.00	\$66.29
	06/01/2015	\$42.73	\$10.00	\$14.30	\$0.00	\$67.03
	12/01/2015	\$43.97	\$10.00	\$14.30	\$0.00	\$68.27
	06/01/2016	\$44.72	\$10.00	\$14.30	\$0.00	\$69.02
	12/01/2016	\$45.95	\$10.00	\$14.30	\$0.00	\$70.25
	06/01/2017	\$46.94	\$10.00	\$14.30	\$0.00	\$71.24
	12/01/2017	\$47.93	\$10.00	\$14.30	\$0.00	\$72.23
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

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
RESIDENTIAL WOOD FRAME CARPENTER **	05/01/2011	\$24.24	\$6.34	\$6.23	\$0.00	\$36.81

** The Residential Wood Frame Carpenter classification applies only to the construction of new, wood frame residences that do not exceed four stories including the basement. *CARPENTERS -ZONE 2 (Residential Wood)*

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

Apprentice - CARPENTER (Residential Wood Frame) - Zone 2

Effective Date - 05/01/2011

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$14.54	\$6.34	\$0.00	\$0.00	\$20.88
2	60	\$14.54	\$6.34	\$6.23	\$0.00	\$27.11
3	65	\$15.76	\$6.34	\$6.23	\$0.00	\$28.33
4	70	\$16.97	\$6.34	\$6.23	\$0.00	\$29.54
5	75	\$18.18	\$6.34	\$6.23	\$0.00	\$30.75
6	80	\$19.39	\$6.34	\$6.23	\$0.00	\$31.96
7	85	\$20.60	\$6.34	\$6.23	\$0.00	\$33.17
8	90	\$21.82	\$6.34	\$6.23	\$0.00	\$34.39

Notes:

Apprentice to Journeyworker Ratio:1:5

RIDE-ON MOTORIZED BUGGY OPERATOR	12/01/2014	\$30.90	\$7.30	\$12.30	\$0.00	\$50.50
<i>LABORERS - ZONE 2</i>	06/01/2015	\$31.40	\$7.30	\$12.30	\$0.00	\$51.00
	12/01/2015	\$31.90	\$7.30	\$12.30	\$0.00	\$51.50
	06/01/2016	\$32.40	\$7.30	\$12.30	\$0.00	\$52.00
	12/01/2016	\$33.15	\$7.30	\$12.30	\$0.00	\$52.75

For apprentice rates see "Apprentice- LABORER"

ROLLER/SPREADER/MULCHING MACHINE	12/01/2014	\$41.99	\$10.00	\$14.30	\$0.00	\$66.29
<i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2015	\$42.73	\$10.00	\$14.30	\$0.00	\$67.03
	12/01/2015	\$43.97	\$10.00	\$14.30	\$0.00	\$68.27
	06/01/2016	\$44.72	\$10.00	\$14.30	\$0.00	\$69.02
	12/01/2016	\$45.95	\$10.00	\$14.30	\$0.00	\$70.25
	06/01/2017	\$46.94	\$10.00	\$14.30	\$0.00	\$71.24
	12/01/2017	\$47.93	\$10.00	\$14.30	\$0.00	\$72.23

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

ROOFER (Inc.Roofing Waterproofing &Roofing Damproofing)	02/01/2015	\$40.11	\$10.50	\$11.60	\$0.00	\$62.21
<i>ROOFERS LOCAL 33</i>	08/01/2015	\$41.01	\$10.50	\$11.60	\$0.00	\$63.11
	02/01/2016	\$41.91	\$10.50	\$11.60	\$0.00	\$64.01

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - ROOFER - Local 33

Effective Date - 02/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.06	\$10.50	\$3.38	\$0.00	\$33.94
2	60	\$24.07	\$10.50	\$11.60	\$0.00	\$46.17
3	65	\$26.07	\$10.50	\$11.60	\$0.00	\$48.17
4	75	\$30.08	\$10.50	\$11.60	\$0.00	\$52.18
5	85	\$34.09	\$10.50	\$11.60	\$0.00	\$56.19

Effective Date - 08/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.51	\$10.50	\$3.38	\$0.00	\$34.39
2	60	\$24.61	\$10.50	\$11.60	\$0.00	\$46.71
3	65	\$26.66	\$10.50	\$11.60	\$0.00	\$48.76
4	75	\$30.76	\$10.50	\$11.60	\$0.00	\$52.86
5	85	\$34.86	\$10.50	\$11.60	\$0.00	\$56.96

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	02/01/2015	\$40.36	\$10.50	\$11.60	\$0.00	\$62.46
ROOFERS LOCAL 33	08/01/2015	\$41.26	\$10.50	\$11.60	\$0.00	\$63.36
	02/01/2016	\$42.16	\$10.50	\$11.60	\$0.00	\$64.26

For apprentice rates see "Apprentice- ROOFER"

SHEETMETAL WORKER	02/01/2015	\$43.28	\$10.20	\$20.54	\$2.22	\$76.24
SHEETMETAL WORKERS LOCAL 17 - A	08/01/2015	\$44.28	\$10.20	\$20.54	\$2.22	\$77.24
	02/01/2016	\$45.28	\$10.20	\$20.54	\$2.22	\$78.24
	08/01/2016	\$46.43	\$10.20	\$20.54	\$2.22	\$79.39
	02/01/2017	\$47.53	\$10.20	\$20.54	\$2.22	\$80.49
	08/01/2017	\$48.63	\$10.20	\$20.54	\$2.22	\$81.59
	02/01/2018	\$49.78	\$10.20	\$20.54	\$2.22	\$82.74

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - SHEET METAL WORKER - Local 17-A

Effective Date - 02/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$17.31	\$10.20	\$4.58	\$0.00	\$32.09
2	40	\$17.31	\$10.20	\$4.58	\$0.00	\$32.09
3	45	\$19.48	\$10.20	\$9.09	\$1.16	\$39.93
4	45	\$19.48	\$10.20	\$9.09	\$1.16	\$39.93
5	50	\$21.64	\$10.20	\$9.91	\$1.25	\$43.00
6	50	\$21.64	\$10.20	\$10.16	\$1.26	\$43.26
7	60	\$25.97	\$10.20	\$11.55	\$1.43	\$49.15
8	65	\$28.13	\$10.20	\$12.38	\$1.52	\$52.23
9	75	\$32.46	\$10.20	\$14.02	\$1.70	\$58.38
10	85	\$36.79	\$10.20	\$15.16	\$1.86	\$64.01

Effective Date - 08/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$17.71	\$10.20	\$4.58	\$0.00	\$32.49
2	40	\$17.71	\$10.20	\$4.58	\$0.00	\$32.49
3	45	\$19.93	\$10.20	\$9.09	\$1.18	\$40.40
4	45	\$19.93	\$10.20	\$9.09	\$1.18	\$40.40
5	50	\$22.14	\$10.20	\$9.91	\$1.27	\$43.52
6	50	\$22.14	\$10.20	\$10.16	\$1.28	\$43.78
7	60	\$26.57	\$10.20	\$11.55	\$1.45	\$49.77
8	65	\$28.78	\$10.20	\$12.38	\$1.54	\$52.90
9	75	\$33.21	\$10.20	\$14.02	\$1.72	\$59.15
10	85	\$37.64	\$10.20	\$15.16	\$1.89	\$64.89

Notes:
Steps are 6 mos.

Apprentice to Journeyworker Ratio:1:4

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

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - SIGN ERECTOR - Local 35 Zone 2

Effective Date - 06/01/2013

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

Notes:
Steps are 4 mos.

Apprentice to Journeyworker Ratio:1:1

SPECIALIZED EARTH MOVING EQUIP < 35 TONS		12/01/2014	\$31.59	\$9.91	\$9.33	\$0.00	\$50.83
<i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>		06/01/2015	\$31.94	\$9.91	\$9.33	\$0.00	\$51.18
		08/01/2015	\$31.94	\$10.41	\$9.33	\$0.00	\$51.68
		12/01/2015	\$31.94	\$10.41	\$10.08	\$0.00	\$52.43
		06/01/2016	\$32.44	\$10.41	\$10.08	\$0.00	\$52.93
		08/01/2016	\$32.44	\$10.91	\$10.08	\$0.00	\$53.43
		12/01/2016	\$32.44	\$10.91	\$10.89	\$0.00	\$54.24
SPECIALIZED EARTH MOVING EQUIP > 35 TONS		12/01/2014	\$31.88	\$9.91	\$9.33	\$0.00	\$51.12
<i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>		06/01/2015	\$32.23	\$9.91	\$9.33	\$0.00	\$51.47
		08/01/2015	\$32.23	\$10.41	\$9.33	\$0.00	\$51.97
		12/01/2015	\$32.23	\$10.41	\$10.08	\$0.00	\$52.72
		06/01/2016	\$32.73	\$10.41	\$10.08	\$0.00	\$53.22
		08/01/2016	\$32.73	\$10.91	\$10.08	\$0.00	\$53.72
		12/01/2016	\$32.73	\$10.91	\$10.89	\$0.00	\$54.53
SPRINKLER FITTER		03/01/2015	\$48.99	\$8.42	\$14.90	\$0.00	\$72.31
<i>SPRINKLER FITTERS LOCAL 550 - (Section B) Zone 2</i>		10/01/2015	\$50.03	\$8.42	\$14.90	\$0.00	\$73.35
		01/01/2016	\$50.03	\$8.67	\$15.05	\$0.00	\$73.75
		03/01/2016	\$50.93	\$8.67	\$15.05	\$0.00	\$74.65
		10/01/2016	\$51.97	\$8.67	\$15.05	\$0.00	\$75.69
		03/01/2017	\$52.87	\$8.67	\$15.05	\$0.00	\$76.59

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

Effective Date - 03/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$17.15	\$8.42	\$8.40	\$0.00	\$33.97
2	40	\$19.60	\$8.42	\$8.40	\$0.00	\$36.42
3	45	\$22.05	\$8.42	\$8.40	\$0.00	\$38.87
4	50	\$24.50	\$8.42	\$8.40	\$0.00	\$41.32
5	55	\$26.94	\$8.42	\$8.40	\$0.00	\$43.76
6	60	\$29.39	\$8.42	\$8.40	\$0.00	\$46.21
7	65	\$31.84	\$8.42	\$8.40	\$0.00	\$48.66
8	70	\$34.29	\$8.42	\$8.40	\$0.00	\$51.11
9	75	\$36.74	\$8.42	\$8.40	\$0.00	\$53.56
10	80	\$39.19	\$8.42	\$8.40	\$0.00	\$56.01

Effective Date - 10/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$17.51	\$8.42	\$8.40	\$0.00	\$34.33
2	40	\$20.01	\$8.42	\$8.40	\$0.00	\$36.83
3	45	\$22.51	\$8.42	\$8.40	\$0.00	\$39.33
4	50	\$25.02	\$8.42	\$8.40	\$0.00	\$41.84
5	55	\$27.52	\$8.42	\$8.40	\$0.00	\$44.34
6	60	\$30.02	\$8.42	\$8.40	\$0.00	\$46.84
7	65	\$32.52	\$8.42	\$8.40	\$0.00	\$49.34
8	70	\$35.02	\$8.42	\$8.40	\$0.00	\$51.84
9	75	\$37.52	\$8.42	\$8.40	\$0.00	\$54.34
10	80	\$40.02	\$8.42	\$8.40	\$0.00	\$56.84

Notes: Apprentice entered prior 9/30/10:
40/45/50/55/60/65/70/75/80/85
Steps are 850 hours

Apprentice to Journeyworker Ratio:1:3

STEAM BOILER OPERATOR	12/01/2014	\$41.99	\$10.00	\$14.30	\$0.00	\$66.29
OPERATING ENGINEERS LOCAL 4	06/01/2015	\$42.73	\$10.00	\$14.30	\$0.00	\$67.03
	12/01/2015	\$43.97	\$10.00	\$14.30	\$0.00	\$68.27
	06/01/2016	\$44.72	\$10.00	\$14.30	\$0.00	\$69.02
	12/01/2016	\$45.95	\$10.00	\$14.30	\$0.00	\$70.25
	06/01/2017	\$46.94	\$10.00	\$14.30	\$0.00	\$71.24
	12/01/2017	\$47.93	\$10.00	\$14.30	\$0.00	\$72.23

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TAMPERS, SELF-PROPELLED OR TRACTOR DRAWN <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2014	\$41.99	\$10.00	\$14.30	\$0.00	\$66.29
	06/01/2015	\$42.73	\$10.00	\$14.30	\$0.00	\$67.03
	12/01/2015	\$43.97	\$10.00	\$14.30	\$0.00	\$68.27
	06/01/2016	\$44.72	\$10.00	\$14.30	\$0.00	\$69.02
	12/01/2016	\$45.95	\$10.00	\$14.30	\$0.00	\$70.25
	06/01/2017	\$46.94	\$10.00	\$14.30	\$0.00	\$71.24
	12/01/2017	\$47.93	\$10.00	\$14.30	\$0.00	\$72.23
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TELECOMMUNICATION TECHNICIAN <i>ELECTRICIANS LOCAL 103</i>	03/01/2015	\$33.88	\$13.00	\$13.70	\$0.00	\$60.58
	09/01/2015	\$34.60	\$13.00	\$13.72	\$0.00	\$61.32
	03/01/2016	\$35.31	\$13.00	\$13.74	\$0.00	\$62.05

Apprentice - TELECOMMUNICATION TECHNICIAN - Local 103

Effective Date - 03/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$13.55	\$13.00	\$0.41	\$0.00	\$26.96
2	40	\$13.55	\$13.00	\$0.41	\$0.00	\$26.96
3	45	\$15.25	\$13.00	\$10.87	\$0.00	\$39.12
4	45	\$15.25	\$13.00	\$10.87	\$0.00	\$39.12
5	50	\$16.94	\$13.00	\$11.11	\$0.00	\$41.05
6	55	\$18.63	\$13.00	\$11.38	\$0.00	\$43.01
7	60	\$20.33	\$13.00	\$11.64	\$0.00	\$44.97
8	65	\$22.02	\$13.00	\$11.89	\$0.00	\$46.91
9	70	\$23.72	\$13.00	\$12.15	\$0.00	\$48.87
10	75	\$25.41	\$13.00	\$12.41	\$0.00	\$50.82

Effective Date - 09/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$13.84	\$13.00	\$0.42	\$0.00	\$27.26
2	40	\$13.84	\$13.00	\$0.42	\$0.00	\$27.26
3	45	\$15.57	\$13.00	\$10.88	\$0.00	\$39.45
4	45	\$15.57	\$13.00	\$10.88	\$0.00	\$39.45
5	50	\$17.30	\$13.00	\$11.14	\$0.00	\$41.44
6	55	\$19.03	\$13.00	\$11.39	\$0.00	\$43.42
7	60	\$20.76	\$13.00	\$11.65	\$0.00	\$45.41
8	65	\$22.49	\$13.00	\$11.90	\$0.00	\$47.39
9	70	\$24.22	\$13.00	\$12.17	\$0.00	\$49.39
10	75	\$25.95	\$13.00	\$12.43	\$0.00	\$51.38

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>	02/01/2015	\$47.90	\$10.18	\$18.50	\$0.00	\$76.58
	08/01/2015	\$48.80	\$10.18	\$18.57	\$0.00	\$77.55
	02/01/2016	\$49.37	\$10.18	\$18.57	\$0.00	\$78.12
	08/01/2016	\$50.27	\$10.18	\$18.65	\$0.00	\$79.10
	02/01/2017	\$50.84	\$10.18	\$18.65	\$0.00	\$79.67

Apprentice - TERRAZZO FINISHER - Local 3 Marble & Tile

Effective Date - 02/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.95	\$10.18	\$18.50	\$0.00	\$52.63
2	60	\$28.74	\$10.18	\$18.50	\$0.00	\$57.42
3	70	\$33.53	\$10.18	\$18.50	\$0.00	\$62.21
4	80	\$38.32	\$10.18	\$18.50	\$0.00	\$67.00
5	90	\$43.11	\$10.18	\$18.50	\$0.00	\$71.79

Effective Date - 08/01/2015

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.40	\$10.18	\$18.57	\$0.00	\$53.15
2	60	\$29.28	\$10.18	\$18.57	\$0.00	\$58.03
3	70	\$34.16	\$10.18	\$18.57	\$0.00	\$62.91
4	80	\$39.04	\$10.18	\$18.57	\$0.00	\$67.79
5	90	\$43.92	\$10.18	\$18.57	\$0.00	\$72.67

Notes:

Apprentice to Journeyworker Ratio:1:3

TEST BORING DRILLER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2014	\$35.95	\$7.30	\$13.15	\$0.00	\$56.40
	06/01/2015	\$36.70	\$7.30	\$13.15	\$0.00	\$57.15
	12/01/2015	\$37.45	\$7.30	\$13.15	\$0.00	\$57.90
	06/01/2016	\$38.20	\$7.30	\$13.15	\$0.00	\$58.65
	12/01/2016	\$39.20	\$7.30	\$13.15	\$0.00	\$59.65

For apprentice rates see "Apprentice- LABORER"

TEST BORING DRILLER HELPER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2014	\$34.67	\$7.30	\$13.15	\$0.00	\$55.12
	06/01/2015	\$35.42	\$7.30	\$13.15	\$0.00	\$55.87
	12/01/2015	\$36.17	\$7.30	\$13.15	\$0.00	\$56.62
	06/01/2016	\$36.92	\$7.30	\$13.15	\$0.00	\$57.37
	12/01/2016	\$37.92	\$7.30	\$13.15	\$0.00	\$58.37

For apprentice rates see "Apprentice- LABORER"

TEST BORING LABORER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2014	\$34.55	\$7.30	\$13.15	\$0.00	\$55.00
	06/01/2015	\$35.30	\$7.30	\$13.15	\$0.00	\$55.75
	12/01/2015	\$36.05	\$7.30	\$13.15	\$0.00	\$56.50
	06/01/2016	\$36.80	\$7.30	\$13.15	\$0.00	\$57.25
	12/01/2016	\$37.80	\$7.30	\$13.15	\$0.00	\$58.25

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TRACTORS/PORTABLE STEAM GENERATORS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2014	\$41.99	\$10.00	\$14.30	\$0.00	\$66.29
	06/01/2015	\$42.73	\$10.00	\$14.30	\$0.00	\$67.03
	12/01/2015	\$43.97	\$10.00	\$14.30	\$0.00	\$68.27
	06/01/2016	\$44.72	\$10.00	\$14.30	\$0.00	\$69.02
	12/01/2016	\$45.95	\$10.00	\$14.30	\$0.00	\$70.25
	06/01/2017	\$46.94	\$10.00	\$14.30	\$0.00	\$71.24
	12/01/2017	\$47.93	\$10.00	\$14.30	\$0.00	\$72.23
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TRAILERS FOR EARTH MOVING EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2014	\$32.17	\$9.91	\$9.33	\$0.00	\$51.41
	06/01/2015	\$32.52	\$9.91	\$9.33	\$0.00	\$51.76
	08/01/2015	\$32.52	\$10.41	\$9.33	\$0.00	\$52.26
	12/01/2015	\$32.52	\$10.41	\$10.08	\$0.00	\$53.01
	06/01/2016	\$33.02	\$10.41	\$10.08	\$0.00	\$53.51
	08/01/2016	\$33.02	\$10.91	\$10.08	\$0.00	\$54.01
	12/01/2016	\$33.02	\$10.91	\$10.89	\$0.00	\$54.82
TUNNEL WORK - COMPRESSED AIR <i>LABORERS (COMPRESSED AIR)</i>	12/01/2014	\$46.83	\$7.30	\$13.55	\$0.00	\$67.68
	06/01/2015	\$47.58	\$7.30	\$13.55	\$0.00	\$68.43
	12/01/2015	\$48.33	\$7.30	\$13.55	\$0.00	\$69.18
	06/01/2016	\$49.08	\$7.30	\$13.55	\$0.00	\$69.93
	12/01/2016	\$50.08	\$7.30	\$13.55	\$0.00	\$70.93
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE) <i>LABORERS (COMPRESSED AIR)</i>	12/01/2014	\$48.83	\$7.30	\$13.55	\$0.00	\$69.68
	06/01/2015	\$49.58	\$7.30	\$13.55	\$0.00	\$70.43
	12/01/2015	\$50.33	\$7.30	\$13.55	\$0.00	\$71.18
	06/01/2016	\$51.08	\$7.30	\$13.55	\$0.00	\$71.93
	12/01/2016	\$52.08	\$7.30	\$13.55	\$0.00	\$72.93
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR <i>LABORERS (FREE AIR TUNNEL)</i>	12/01/2014	\$38.90	\$7.30	\$13.55	\$0.00	\$59.75
	06/01/2015	\$39.65	\$7.30	\$13.55	\$0.00	\$60.50
	12/01/2015	\$40.40	\$7.30	\$13.55	\$0.00	\$61.25
	06/01/2016	\$41.15	\$7.30	\$13.55	\$0.00	\$62.00
	12/01/2016	\$42.15	\$7.30	\$13.55	\$0.00	\$63.00
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR (HAZ. WASTE) <i>LABORERS (FREE AIR TUNNEL)</i>	12/01/2014	\$40.90	\$7.30	\$13.55	\$0.00	\$61.75
	06/01/2015	\$41.65	\$7.30	\$13.55	\$0.00	\$62.50
	12/01/2015	\$42.40	\$7.30	\$13.55	\$0.00	\$63.25
	06/01/2016	\$43.15	\$7.30	\$13.55	\$0.00	\$64.00
	12/01/2016	\$44.15	\$7.30	\$13.55	\$0.00	\$65.00
For apprentice rates see "Apprentice- LABORER"						
VAC-HAUL <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2014	\$31.59	\$9.91	\$9.33	\$0.00	\$50.83
	06/01/2015	\$31.94	\$9.91	\$9.33	\$0.00	\$51.18
	08/01/2015	\$31.94	\$10.41	\$9.33	\$0.00	\$51.68
	12/01/2015	\$31.94	\$10.41	\$10.08	\$0.00	\$52.43
	06/01/2016	\$32.44	\$10.41	\$10.08	\$0.00	\$52.93
	08/01/2016	\$32.44	\$10.91	\$10.08	\$0.00	\$53.43
	12/01/2016	\$32.44	\$10.91	\$10.89	\$0.00	\$54.24

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
WAGON DRILL OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2014	\$30.90	\$7.30	\$12.30	\$0.00	\$50.50
	06/01/2015	\$31.40	\$7.30	\$12.30	\$0.00	\$51.00
	12/01/2015	\$31.90	\$7.30	\$12.30	\$0.00	\$51.50
	06/01/2016	\$32.40	\$7.30	\$12.30	\$0.00	\$52.00
	12/01/2016	\$33.15	\$7.30	\$12.30	\$0.00	\$52.75
For apprentice rates see "Apprentice- LABORER"						
WASTE WATER PUMP OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2014	\$42.39	\$10.00	\$14.30	\$0.00	\$66.69
	06/01/2015	\$43.14	\$10.00	\$14.30	\$0.00	\$67.44
	12/01/2015	\$44.39	\$10.00	\$14.30	\$0.00	\$68.69
	06/01/2016	\$45.14	\$10.00	\$14.30	\$0.00	\$69.44
	12/01/2016	\$46.39	\$10.00	\$14.30	\$0.00	\$70.69
	06/01/2017	\$47.39	\$10.00	\$14.30	\$0.00	\$71.69
	12/01/2017	\$48.39	\$10.00	\$14.30	\$0.00	\$72.69
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
WATER METER INSTALLER <i>PLUMBERS & GASFITTERS LOCAL 12 (Local 138)</i>	03/01/2015	\$46.58	\$10.32	\$14.54	\$0.00	\$71.44
	09/01/2015	\$47.58	\$10.32	\$14.54	\$0.00	\$72.44
	03/01/2016	\$48.73	\$10.32	\$14.54	\$0.00	\$73.59
	09/01/2016	\$49.78	\$10.32	\$14.54	\$0.00	\$74.64
	03/01/2017	\$50.78	\$10.32	\$14.54	\$0.00	\$75.64
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"						
Outside Electrical - East						
CABLE TECHNICIAN (Power Zone) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	09/01/2013	\$25.66	\$8.70	\$4.48	\$0.00	\$38.84
For apprentice rates see "Apprentice- LINEMAN"						
CABLEMAN (Underground Ducts & Cables) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	09/01/2013	\$36.55	\$8.70	\$6.58	\$0.00	\$51.83
For apprentice rates see "Apprentice- LINEMAN"						
DRIVER / GROUNDMAN CDL <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	09/01/2013	\$29.94	\$8.70	\$6.05	\$0.00	\$44.69
For apprentice rates see "Apprentice- LINEMAN"						
DRIVER / GROUNDMAN -Inexperienced (<2000 Hrs) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	09/01/2013	\$23.52	\$8.70	\$5.24	\$0.00	\$37.46
For apprentice rates see "Apprentice- LINEMAN"						
EQUIPMENT OPERATOR (Class A CDL) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	09/01/2013	\$36.35	\$8.70	\$9.43	\$0.00	\$54.48
For apprentice rates see "Apprentice- LINEMAN"						
EQUIPMENT OPERATOR (Class B CDL) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	09/01/2013	\$32.08	\$8.70	\$6.59	\$0.00	\$47.37
For apprentice rates see "Apprentice- LINEMAN"						
GROUNDMAN <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	09/01/2013	\$23.52	\$8.70	\$3.72	\$0.00	\$35.94
For apprentice rates see "Apprentice- LINEMAN"						
GROUNDMAN -Inexperienced (<2000 Hrs.) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	09/01/2013	\$19.25	\$8.70	\$2.85	\$0.00	\$30.80
For apprentice rates see "Apprentice- LINEMAN"						
JOURNEYMAN LINEMAN <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	09/01/2013	\$42.77	\$8.70	\$11.78	\$0.00	\$63.25

Apprentice - LINEMAN (Outside Electrical) - East Local 104

Effective Date - 09/01/2013

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$25.66	\$8.70	\$4.24	\$0.00	\$38.60
2	65	\$27.80	\$8.70	\$4.71	\$0.00	\$41.21
3	70	\$29.94	\$8.70	\$5.43	\$0.00	\$44.07
4	75	\$32.08	\$8.70	\$6.16	\$0.00	\$46.94
5	80	\$34.22	\$8.70	\$6.88	\$0.00	\$49.80
6	85	\$36.35	\$8.70	\$7.62	\$0.00	\$52.67
7	90	\$38.49	\$8.70	\$8.83	\$0.00	\$56.02

Notes:

Apprentice to Journeyworker Ratio:1:2

TELEDATA CABLE SPLICER <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	07/16/2012	\$26.33	\$4.18	\$2.79	\$0.00	\$33.30
TELEDATA LINEMAN/EQUIPMENT OPERATOR <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	07/16/2012	\$24.78	\$4.18	\$2.74	\$0.00	\$31.70
TELEDATA WIREMAN/INSTALLER/TECHNICIAN <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	07/16/2012	\$24.78	\$4.18	\$2.74	\$0.00	\$31.70
TREE TRIMMER <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	01/29/2012	\$17.18	\$3.37	\$0.00	\$0.00	\$20.55
This classification applies only to tree work done: (a) for a utility company, R.E.A. cooperative, or railroad or coal mining company, and (b) for the purpose of operating, maintaining, or repairing the utility company's equipment, and (c) by a person who is using hand or mechanical cutting methods and is not on the ground. This classification does not apply to wholesale tree removal.						
TREE TRIMMER GROUNDMAN <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	01/29/2012	\$15.15	\$3.37	\$0.00	\$0.00	\$18.52
This classification applies only to tree work done: (a) for a utility company, R.E.A. cooperative, or railroad or coal mining company, and (b) for the purpose of operating, maintaining, or repairing the utility company's equipment, and (c) by a person who is using hand or mechanical cutting methods and is on the ground. This classification does not apply to wholesale tree removal.						

Additional Apprentice Information:

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

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

All steps are six months (1000 hours.)

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

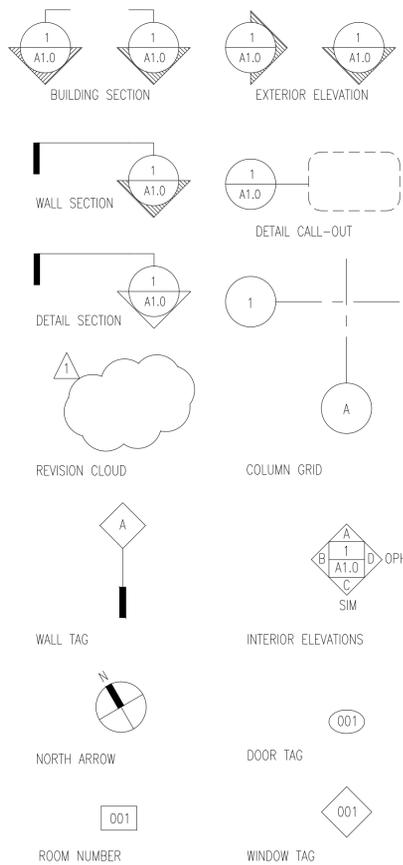
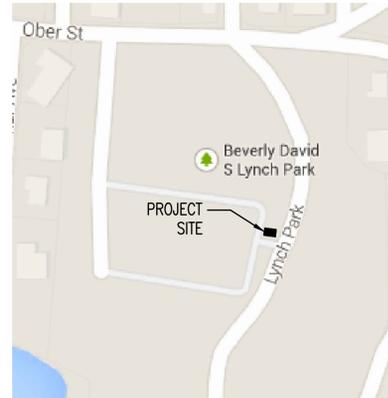
** Multiple ratios are listed in the comment field.

*** APP to JM; 1:1, 2:2, 2:3, 3:4, 4:4, 4:5, 4:6, 5:7, 6:7, 6:8, 6:9, 7:10, 8:10, 8:11, 8:12, 9:13, 10:13, 10:14, etc.

**** APP to JM; 1:1, 1:2, 2:3, 2:4, 3:5, 4:6, 4:7, 5:8, 6:9, 6:10, 7:11, 8:12, 8:13, 9:14, 10:15, 10:16, etc.

#	POUND OR NUMBER
&	AND
@	AT
ACT	ACOUSTIC CEILING TILE
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
ANOD	ANODIZED
BSMT	BASEMENT
BYND	BEYOND
BOT	BOTTOM
CIP	CAST IN PLACE
CHNL	CHANNEL
CJ	CONTROL JOINT
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMPR	COMPRESSIBLE
CONC	CONCRETE
CONT	CONTINUOUS
CPT	CARPET
CT	CERAMIC TILE
CTYD	COURTYARD
DBL	DOUBLE
DEMO	DEMOLISH
DIA	DIAMETER
DIMS	DIMENSIONS
DN	DOWN
DR	DOOR
DWG	DRAWING
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR/ELEVATION
EPDM	ETHYLENE PROPYLENE DIENE
EQ	EQUAL
EXIST	EXISTING
EXP JT	EXPANSION JOINT
EXT	EXTERIOR
FD	FIRE DEPARTMENT
FLD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FIXT	FIXTURE
FLR	FLOOR
FM	FILLED METAL
FO	FACE OF
FND	FOUNDATION
GA	GAUGE
GALV	GALVANIZED
GWB	GYPSUM WALL BOARD
HC	HOLLOW CORE
HI	HIGH
HM	HOLLOW METAL
HP	HIGH POINT
HR	HOUR
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
IRGWB	IMPACT RESISTANT GYPSUM WALLBOARD
IPO	IN PLACE OF
INSUL	INSULATED
INT	INTERIOR
MAX	MAXIMUM
MO	MASONRY OPENING
MECH	MECHANICAL
MEMB	MEMBRANE
MIN	MINIMUM
MRGWB	MOISTURE-RESISTANT GYPSUM WALL BOARD
MTL	METAL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
OC	ON CENTER
OH	OPPOSITE HAND
OZ	OUNCE
PCC	PRE-CAST CONCRETE
PLUMB	PLUMBING
PLYD	PLYWOOD
PT	PRESSURE TREATED
PNT	PAINT/PAINTED
PVC	POLYVINYL CHLORIDE
RBR	RUBBER
RCP	REFLECTED CEILING PLAN
ROD	ROOF DRAIN
REQD	REQUIRED
RM	ROOM
SIM	SIMILAR
SPEC	SPECIFIED OR SPECIFICATION
SPK	SPRINKLER
SS	STAINLESS STEEL
STC	SOUND TRANSMISSION COEFFICIENT
STL	STEEL
STRUCT	STRUCTURAL
SYP	SOUTHERN YELLOW PINE
T&G	TONGUE AND GROOVE
TEL	TELEPHONE
TLT	TOILET
TO	TOP OF
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TP	TOILET PAPER DISPENSER
T/D	TELEPHONE/DATA
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
U/S	UNDERSIDE
VIF	VERIFY IN FIELD
VP	VISION PANEL
W/	WITH
WD	WOOD

ARCHITECTURAL
COVER SHEET
A1.0 PLAN, SECTIONS, DETAILS, AND ELEVATIONS
A2.0 FOUNDATION PLAN AND DETAILS
A3.0 SCHEDULES, ELECTRICAL PLAN AND BATHROOM DETAILS
MSBC CODE SUMMARY 2009 IBC
NEW FREE-STANDING PUBLIC TOILET BUILDING WITH STORAGE AREA.
MAAB REQUIREMENTS:
1. UNISEX ACCESSIBLE BATHROOM PER 30.1.1



- General Notes:
- The contractor shall field verify existing conditions against the project documents prior to submitting his bid. It is the contractor's sole responsibility to verify his assumptions prior to submitting his bid. Proposed Change Orders for work required to complete the scope described by the project documents, but not included in or field verified prior to submission of his bid, will be rejected.
 - If a conflict arises between the construction documents and the Contractor's customary procedure or a manufacturer's specifications and/or instructions, it must be brought to the Architect's attention in writing. Specific drawing and/or detail numbers and specification sections must be cited. The Architect shall be the final arbiter on which specification and/or procedure/instruction the Contractor shall follow. No work in question shall commence prior to the Contractor's receipt of the Architect's written direction.
 - All requests for clarification or information must be submitted in writing, and must cite specific drawing and/or detail numbers or specification sections; the Contractor must be in receipt of the Architect's written response prior to execution of any work in question. Field discussions, comments and statements do not constitute approval or direction to proceed under any circumstances.
 - All work noted as non-compliant in a Field Report, Project Memo or Punch List shall be made compliant within seven (7) days and approved in writing by the Architect prior to resumption of similar work, or prior to inclusion on form G702. Delay claims based on time spent to perform remedial work shall be rejected.
 - No work of any kind, including mobilization, may commence until all required preliminary submittals have been reviewed and approved by the Architect; no work within a specified section of the project documents may commence until all submittals from that section have been reviewed and approved by the Architect.
 - All proposed service interruptions must be approved by the Owner or Building Manager 48 hours in advance. All service interruptions shall be minimized to the greatest extent possible.
 - The building shall be made secure and weather tight at the end of each work period, or if inclement weather threatens. Any damages, including those to interior finishes, due to lack of protection or construction activities, shall be repaired or replaced by the contractor at the Owner's discretion, and at no cost to the Owner or Architect.
 - Drive pins are not to be used on the project unless approved in writing by the Architect. There shall be no exposed fasteners on the project UNLESS OTHERWISE NOTED. All exterior fasteners shall be stainless steel.
 - All products to be used on the project must be submitted and approved in writing before delivery to the site.
 - Warranties: all products shall carry the manufacturer's most comprehensive warranty available. All work, including testing, inspections, mockups and samples shall be executed, scheduled, organized and submitted by the contractor as part of the contract at no cost to the Owner or Architect.
 - Colors: all colors for all materials shall be chosen by the Architect or Owner. Full sample sets of stock colors shall be submitted for each material and/or color. If manufacturer's sample substrates do not match project substrates, the contractor shall apply colors to sample substrates that do match project substrates prior to submission. If custom colors are required, the above submittal requirements along with the mixing formula shall be submitted.
 - Attic Stock: attic stock shall be provided for all paint materials and shingles U.N.O. or approved in writing by the architect. All attic stock shall have a visible manufacturing date printed on its container; all attic stock manufacturing dates shall be within 6 months of the warranty date U.N.O. or approved by the Architect. All attic stock shall be provided in undamaged, unopened containers and shall equal 10% of the quantity installed for the project U.N.O. or approved in writing by the Architect.

- Sealant Notes:
- Dow 790 silicone sealant shall be approved for this project. Sealant color shall match the finish color of the material(s) being sealed. In the event two differently colored adjacent materials require sealant, consult with the architect for color selection. The project requires a 20 year warranty for sealants. All manufacturer performed field testing must be complete with passing results verified in writing prior to permanent installation of sealant joints.
 - Only closed cell backer rod shall be approved for single stage joints on this project. Bi-cellular foam rods will be rejected. Backer rod shall be installed with a gauge to ensure it is placed at a uniform distance from face of substrates. Do not puncture, fold, over-compress or cut backer rod lengthwise. Sealant shall be tooled to provide a consistent, smooth, slightly concave appearance.
 - All sealant joints shall be adhered on only 2-sides and shall be of consistent 2:1 (W/D) aspect.
 - Sealant joints shall be randomly field tested at the Architect's and manufacturer's discretion. All joints removed for testing shall be replaced by the contractor at no cost to the Owner or Architect. Only a reasonable and necessary number of joints will be tested; however, frequent failures in joint construction, aspect or performance shall increase the number of tested joints.

- Masonry Notes:
- All masonry units shall be as shown on the drawings. All steel bars shall be deformed. All vertical steel bars shall be cast or epoxied into the floor slab a minimum of four (4) inches. #5 steel bars shall be placed vertically one (1) bar @ 24" O.C. in all walls and as shown in the drawings, and one (1) on each side of all openings as shown. Two (2) #5 steel bars shall be placed horizontally in all bond beams and lintels; all horizontal and vertical steel bars shall be tied at all openings. All horizontal joints shall be continuously reinforced with HD galvanized steel ladder mesh. All reinforcement shall be continuous; minimum overlap shall be 8", and all overlaps and splices shall be tied with 16 gauge HD galvanized steel wire. Open end CMUs shall be used to accommodate all vertical reinforcement as shown in the drawings. Cellular plastic weeps shall be installed @ 32" O.C. at the bottom of all walls; cut Grace Perm-A-Barrier tight around weeps.
 - All openings in CMU walls shall have control joints aligned with the jambs; all walls shall have continuous control joints spaced at a ratio of L/H=1.5. All vertical and horizontal joints in masonry, including sidewalk to foundation joints shall be separated by WR Meadows "Deck-O-Foam" and sealed with Dow 790 silicone or WR Meadows "Ceramar" for horizontal joints. All sidewalks shall be doweled to the foundation with min. 12" long smooth steel dowels installed at mid thickness of the sidewalk.
 - All masonry walls shall be fully grouted; all openings shall receive continuous, fully grouted lintels as shown; the tops of all walls shall terminate at a continuous reinforced bond beam and pressure-treated 2X8 plate as shown in the drawings; 2X8 pressure treated top plate shall be anchored with 1/2" diameter "J" bolts at 24" O.C. as shown; all horizontal reinforcement shall be tied or hooked to vertical reinforcement. Two Simpson Strong Tie HG10KT anchors shall be installed on each truss as shown. Install per manufacturer's instructions.
 - All exterior masonry walls shall receive continuous Grace Perm-A-Barrier membrane system; see flashing notes.
 - All concrete slabs shall be minimum 4000 psi, ASTM C150 type 1 gray portland cement supplemented with fly ash ASTM C618, class F or C. Aggregate shall be normal weight ASTM C33, class 45 3/4" graded aggregate from a single source. Use air entraining admixture compliant with ASTM C260. All grout shall be ASTM C150 type 1 cement, ASTM C404 aggregate and hydrated lime ASTM C207 type s.

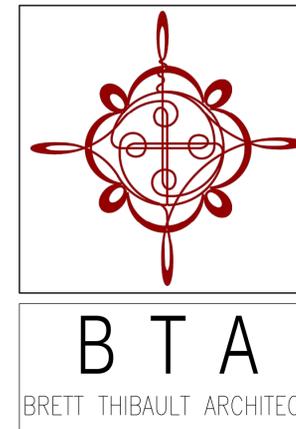
- Wood Framing Notes:
- All wood shall be pressure treated with the exception of the engineered trusses. All trusses shall be secured to a 2X8 top plate with Simpson Strong Tie HG10KT anchors as shown; install per manufacturer's instructions. Truss design is DELEGATED to the contractor; slope shall be 3:12 or 3.5:12. Decking shall be 2X6 pressure treated tongue and groove installed per the contractor's engineered design. The contractor shall provide a truss design that utilizes the most cost effective truss member size and spacing combination which complies with the minimum standards set forth herein. Spacing shown on the drawings is the preferred spacing for the project. Truss design requires fully engineered shop drawing approval prior to fabrication.
 - All blocking and strapping materials shall be minimum 1-1/2" thick for exterior siding and trim; strapping shall be secured through the Grace air barrier with minimum 3" Blue Climaseal Tapcon screws @ 16" O.C. staggered. Strapping shall be pre-drilled to avoid splitting and checking. All siding and trim joints shall be spaced and fully supported by blocking or strapping and secured according to the manufacturer's instructions, but with fasteners of a length that is minimum two times the thickness of the material being fastened. For example, 3/4" thick trim boards require a minimum fastener length of 1-1/2".
 - All exposed framing shall be painted per the finish schedule; all exposed framing joints shall be tight, sealed and finished to provide a continuous, unbroken surface.
 - All electrical, plumbing, hvac and bathroom equipment, accessories, fixtures and devices shall be mounted on solid masonry or 2X pt blocking. All blocking shall be prepared, primed and painted per the finish schedule prior to installation of mounted materials.
 - All wood-framed walls shall be "X" braced with Simpson wb or wbc.

- Flashing Notes:
- All discreet flashing profiles shall match; for example, all roof drip edge profiles shall match, all head flashing profiles shall match. No exceptions.
 - All flashing shall be as noted on the drawings and specifications. All exposed flashing shall be painted 24 gauge galvanized steel, and shall be continuous without holes, open ends or gaps. All metal corners and miter shall be shop formed and welded. All flashing shall be lapped to shed water via gravity. All flashing edges shall be terminated with continuous hook and cleat if exposed, or if concealed, with liquid membrane. All cleats and hooks shall be 1" min. All cleats shall be adhered to substrates with minimum 1" wide double-sided butyl tape, and fastened at 8" O.C. with oval head #8-32 galvanized steel screws and pre-drilled anchors.
 - Basis of design for wall and roof flashing are full GRACE Perm-A-Barrier Wall Membrane and Ice and Water Shield systems including detail membranes, primers, liquid membranes and accessories. The exterior flashing systems shall be continuous, fully sealed and installed per the manufacturer's instructions. All walls shall be covered with Perm-A-Barrier, and the entire roof shall be covered with Ice and Water Shield.
 - In no case shall Grace products remain exposed for more than 10 days during construction. All flashing shall be panned with back and end dams extending vertically from the horizontal drainage plane no less than 3". All vertical and horizontal pan joints shall be lapped min. 1" and soldered. All flashing joints shall be sealed with silicone and rivets with the exception of movement joints as required by Massachusetts State Building Code and/or project documentation.
 - All fasteners used to install flashing shall be concealed, installed on non-horizontal surfaces, shall be galvanized steel in predrilled anchors, and shall be oval head UNO or approved by the Architect.
 - All metal flashing, including pans and end dams, shall be under-laid with an appropriate, continuous Grace membrane. All substrates shall be primed—no exceptions. All membrane laps, seams and edges shall be sealed with Grace liquid membrane—no exceptions. All horizontal terminal edges of membrane shall be mechanically secured with continuous stainless steel termination bars. All termination bars shall be spaced 1/8" apart to allow for expansion, and shall be fastened at 8" O.C. in elongated holes with oval head #8-32 stainless steel screws and predrilled anchors.
 - Membrane flashing shall be installed to bridge no greater than a 3/8" gap. All gaps exceeding 3/8" shall be filled with closed cell polyurethane spray foam, cut flush, to support the membrane.
 - All exposed draining edges of metal flashing shall be terminated at a 45 degree 1" wide hem/hook and continuous cleat. All cleats shall be adhered to substrates with minimum 1" wide double-sided butyl tape, and fastened at 8" O.C. with oval head #8-32 galvanized steel screws and pre-drilled anchors.
 - Metal flashing and drip edges shall be pinned in place with minimum two oval head #8-32 galvanized steel screws and predrilled anchors to maintain alignment while membrane counter flashing is installed. Screws used for pinning and alignment shall be installed on non-horizontal surfaces.
 - All metal flashing pans and end dams shall have minimum 3" high sides and shall be mechanically terminated with Grace HT as described above. All metal flashing pans shall have soldered corners. All flashing shall be interrupted by mechanical loose-lock expansion joints at < 20'-0" O.C.; all other joints shall be riveted.
 - All flashing changes in direction or elevation shall be continuous, lapped 1" minimum, sealed with silicone and riveted.
 - All exposed flashing edges shall be hemmed or hooked onto a continuous cleat. No sheared edges shall be left exposed. Open ends of hooks and hems shall be closed by folded over tab.

PROJECT:
DAVID S. LYNCH MEMORIAL PARK
NEW BATHROOM BUILDING
55 OBER STREET
BEVERLY, MA

CLIENT:
CITY OF BEVERLY, MA

ARCHITECT:



ISSUE: BIDDING

ISSUE DATE: 03/06/2015





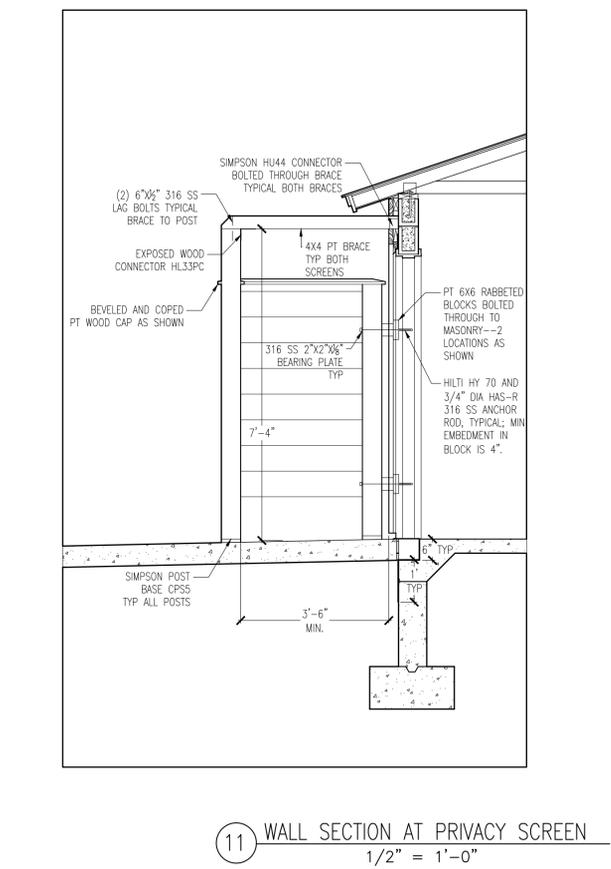
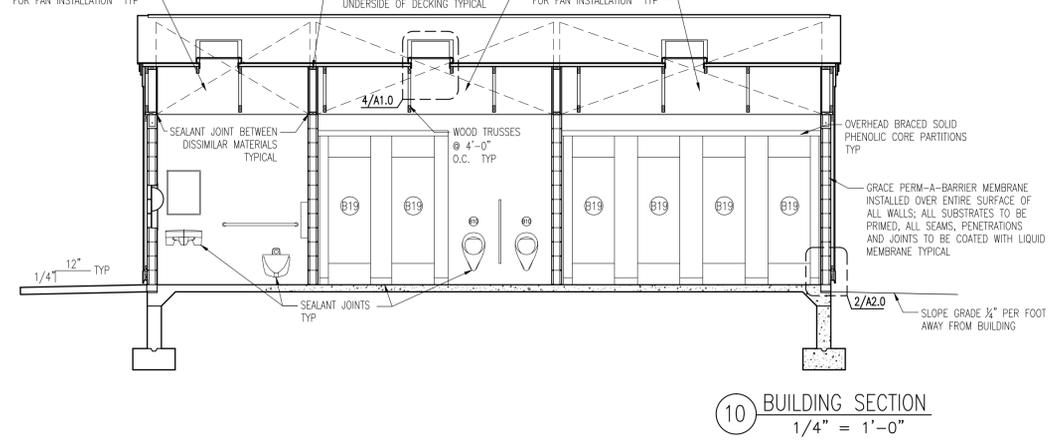
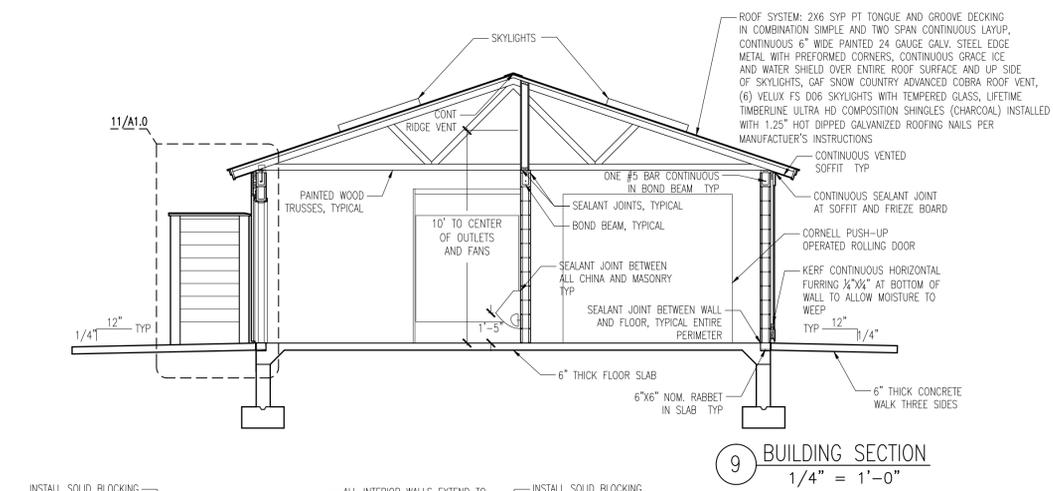
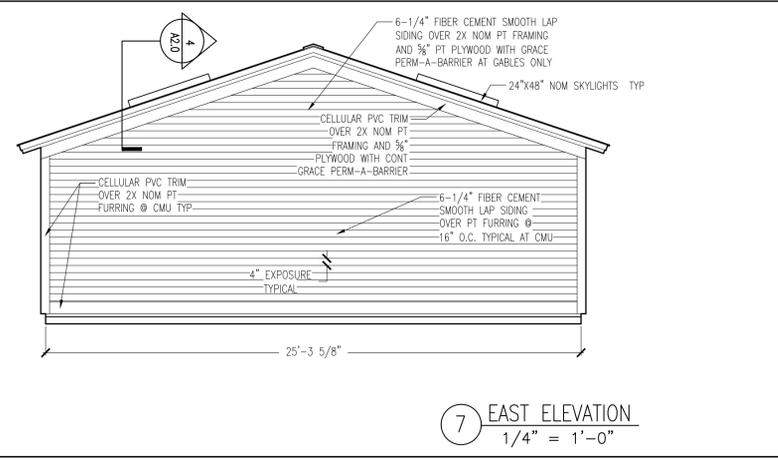
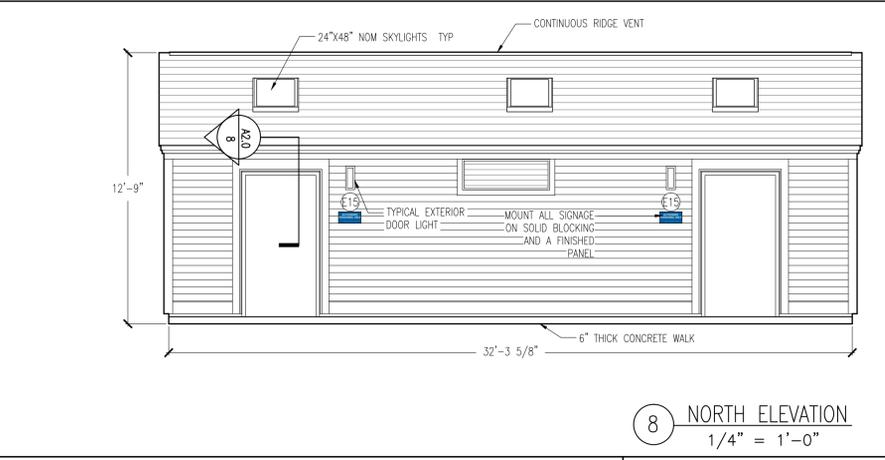
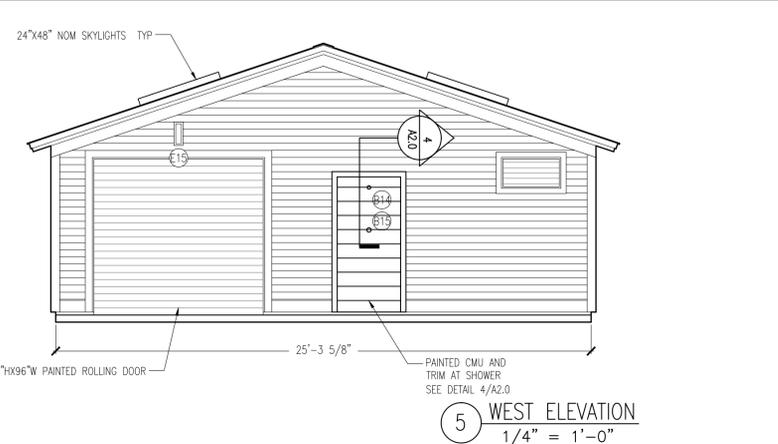
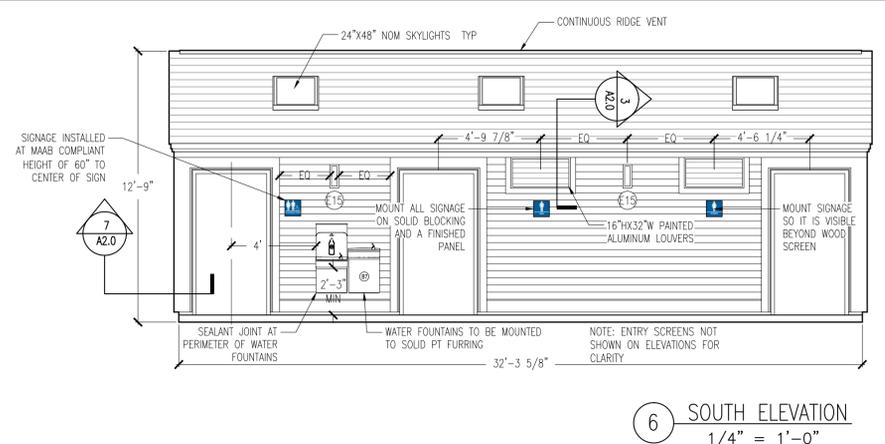
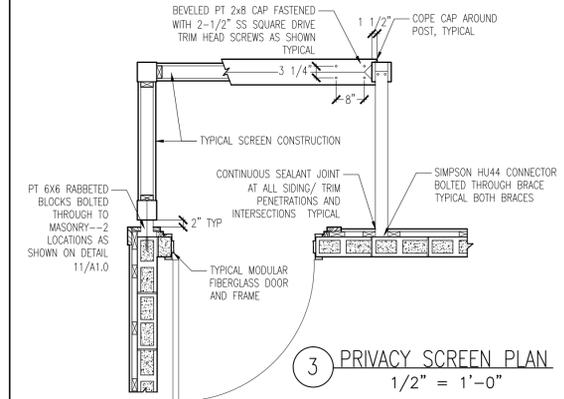
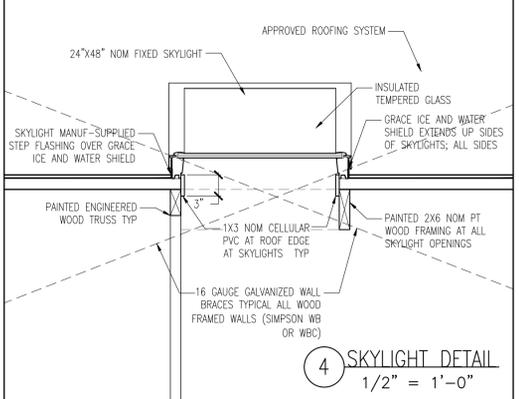
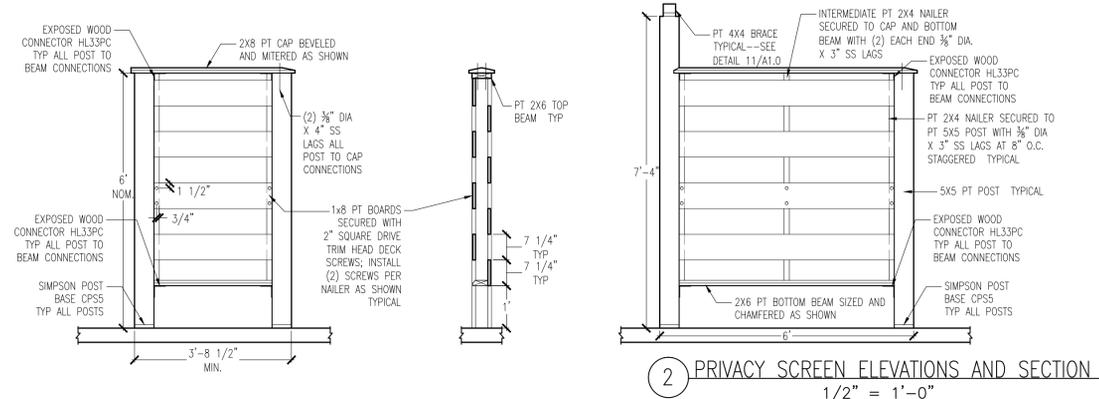
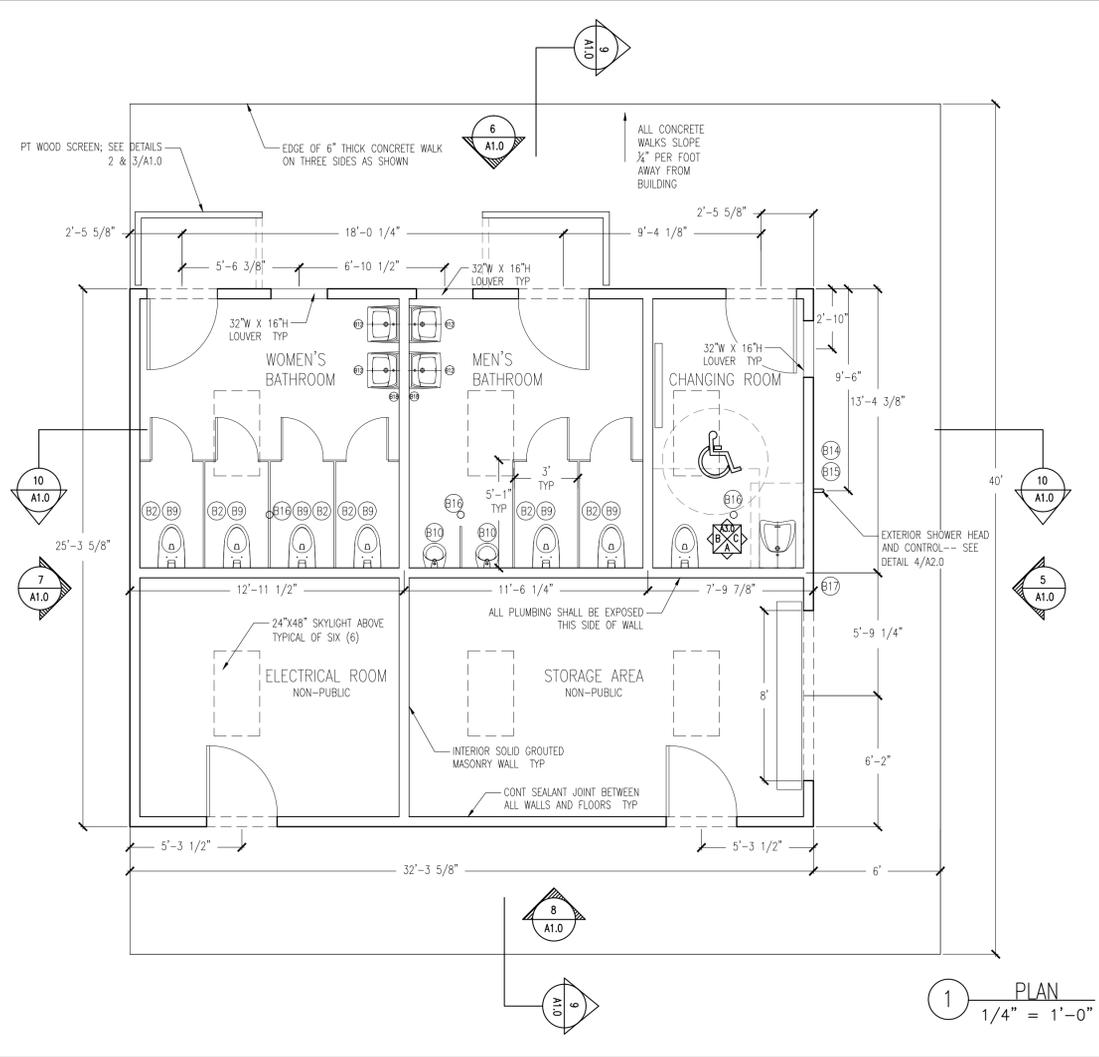
B T A
BRETT THIBAUT ARCHITECT
28 VINCENT ROAD
MENDON, MA 01756
(508) 634 8401

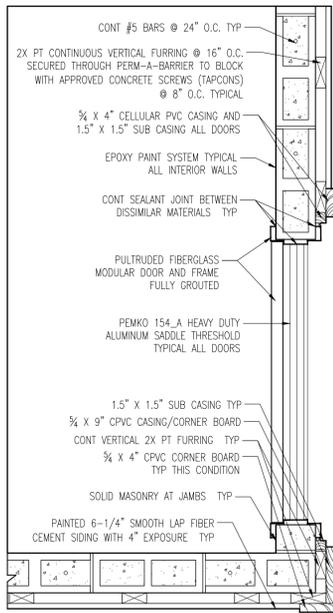
PROJNAME
LYNCH PARK
BATHROOM BUILDING
BEVERLY, MASSACHUSETTS
14015

DRAWING TITLE:
**PLAN, SECTIONS,
DETAILS, AND ELEVATIONS**

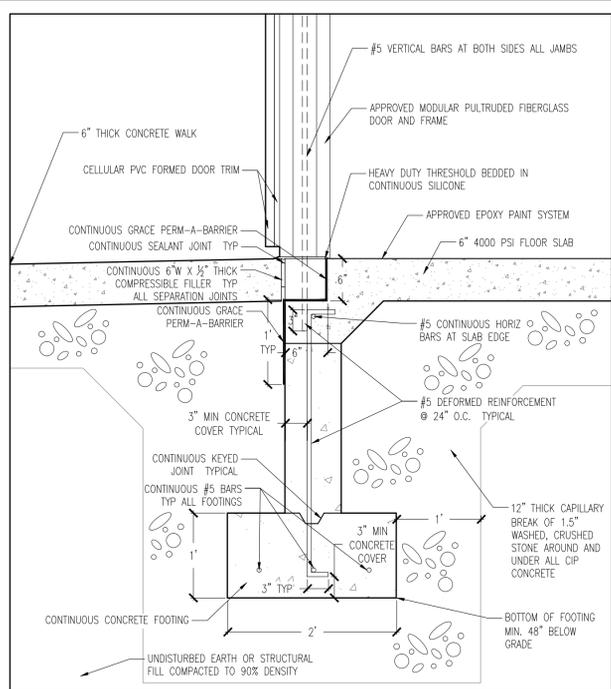
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ISSUE BIDDING
SCALE AS NOTED
DATE 03/06/2015

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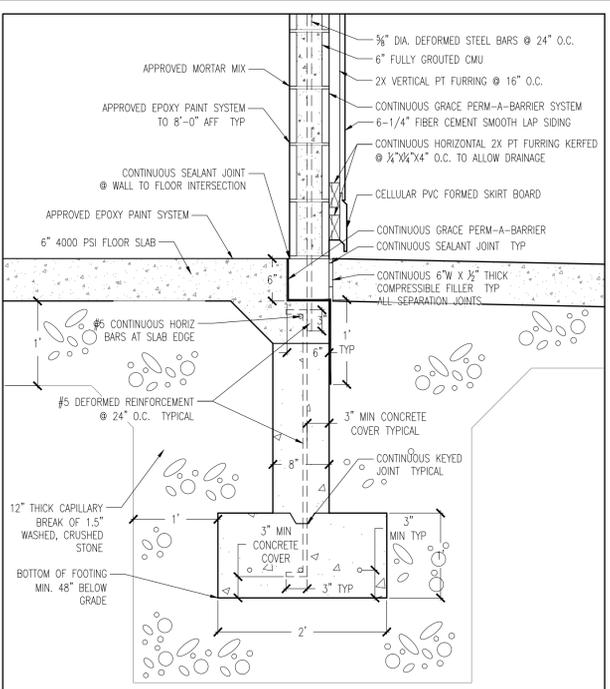




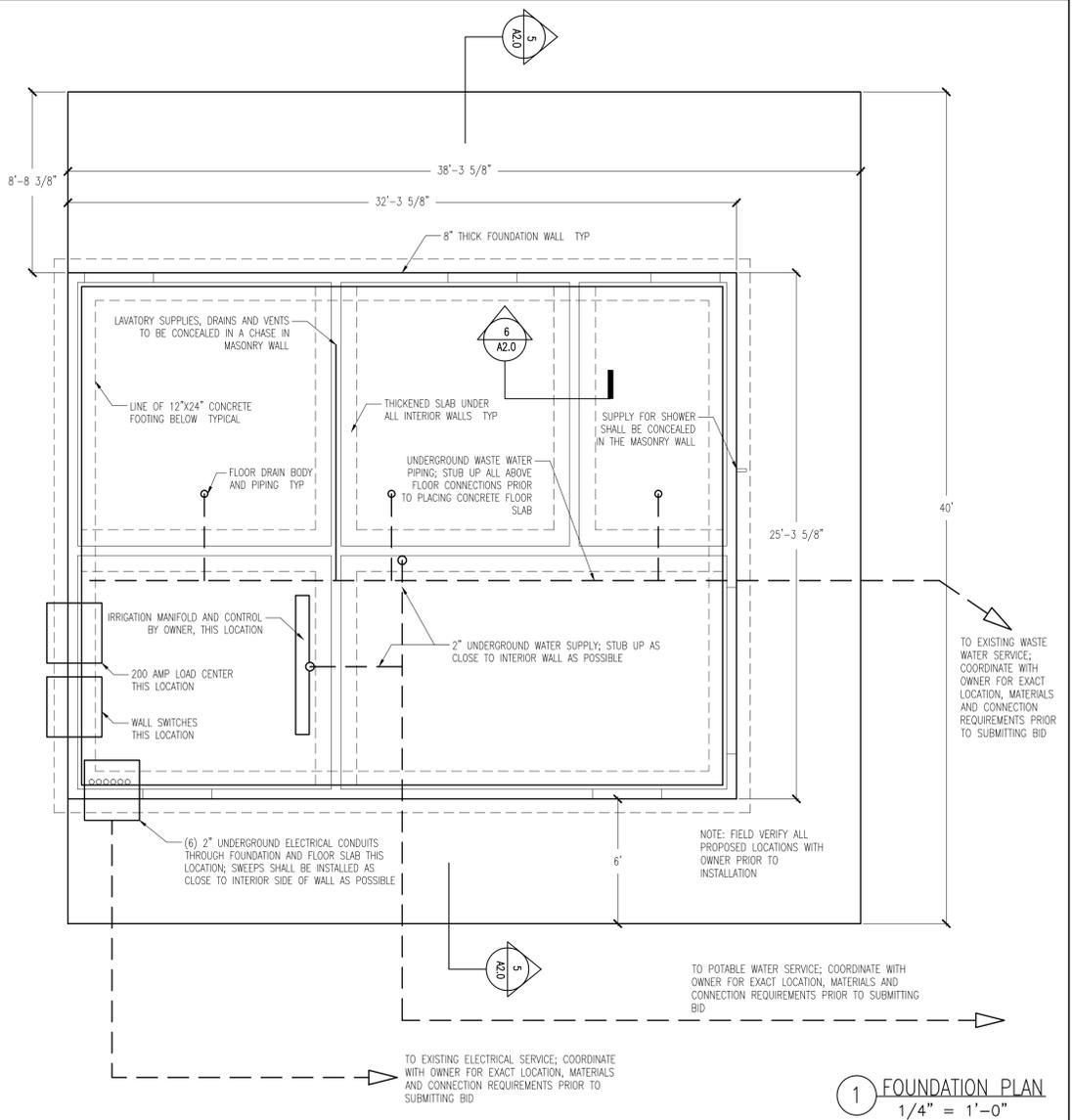
7 SECTION DETAIL
1" = 1'-0"



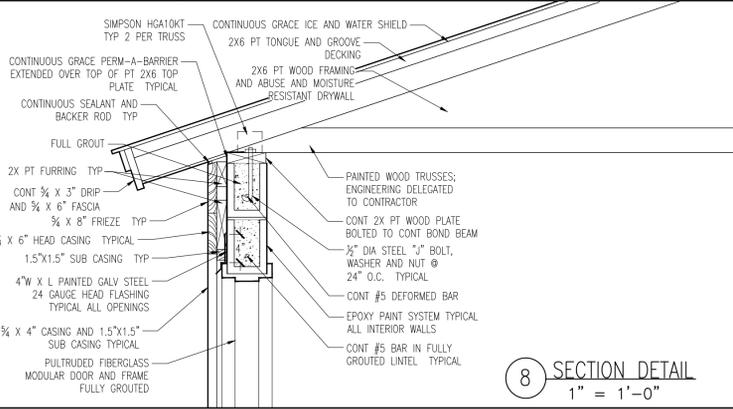
4 SECTION DETAIL
1" = 1'-0"



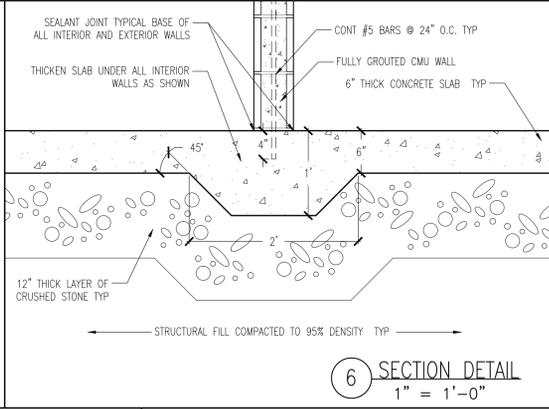
5 SECTION DETAIL
1" = 1'-0"



1 FOUNDATION PLAN
1/4" = 1'-0"



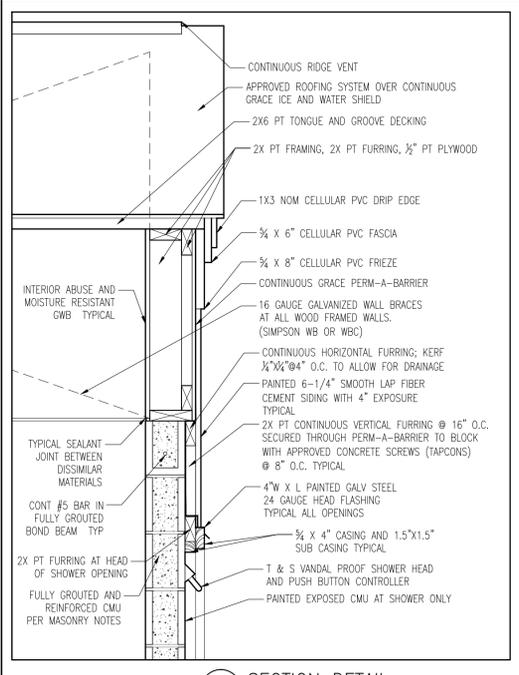
8 SECTION DETAIL
1" = 1'-0"



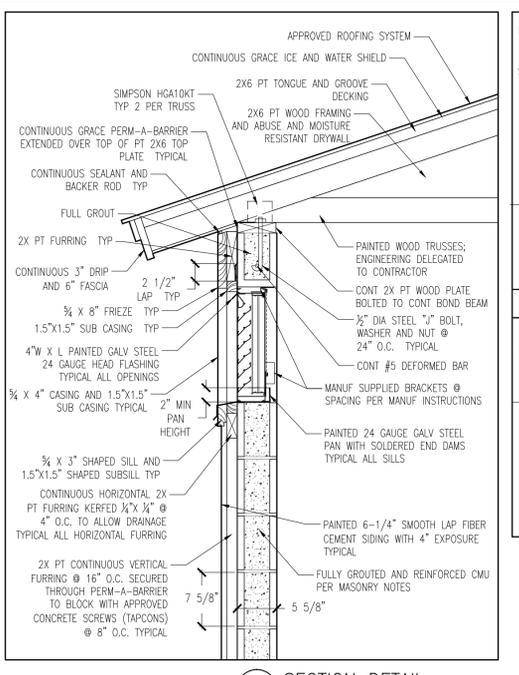
6 SECTION DETAIL
1" = 1'-0"

SITE WORK NOTES:

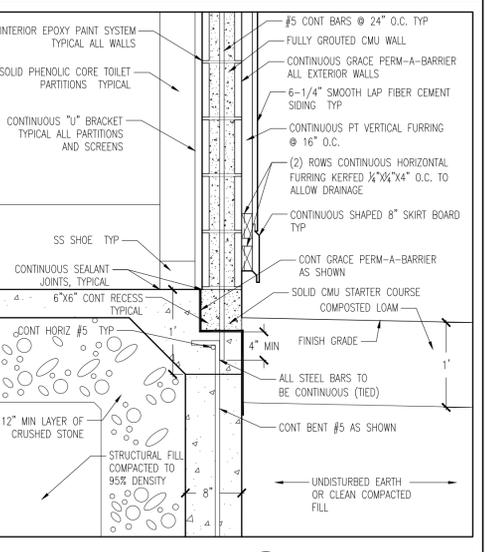
- THE CONTRACTOR SHALL PROCURE, DELIVER AND INSTALL STRUCTURAL FILL, CLEAN COMPACTIBLE FILL AND COMPOSTED LOAM FOR AREAS SHOWN ON THE DRAWINGS AND HEREIN. ALL AREAS DISTURBED BY CONSTRUCTION OF THE NEW BATHROOM BUILDING SHALL BE EXCAVATED AND GRADED TO ACCOMMODATE THE FINE GRADING OF 12" MIN. NEW COMPOSTED TOP SOIL. ALL NEW TOP SOIL SHALL BE HYDROSEEDED WITH THE FOLLOWING MIX: NATIVE BLUEGRASS 60%, FINE FESCUE 40% AT A RATE OF 340 POUNDS PER ACRE.
- STRUCTURAL FILL SHALL BE PLACED AND COMPACTED TO 95% DENSITY IN MAX. 24" LIFTS WITHIN THE FOUNDATION WALLS. COMPACTED STRUCTURAL FILL SHALL TERMINATE 12" BELOW THE LEVEL OF UNDERSIDE OF SLAB.
- CLEAN FILL SHALL BE COMPACTED TO 95% DENSITY MAX. 12" BELOW FINAL GRADE. FINAL GRADES SHALL TERMINATE AT THE BUILDING AS SHOWN IN THE DRAWINGS, AND FLUSH WITH THE NEW SIDEWALKS AROUND THE BUILDING.



4 SECTION DETAIL
1" = 1'-0"



3 SECTION DETAIL
1" = 1'-0"



2 SECTION DETAIL
1" = 1'-0"



B T A
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28 VINCENT ROAD
MENDON, MA 01756
(508) 634 8401

PROJNAME
LYNCH PARK
BATHROOM BUILDING
BEVERLY, MASSACHUSETTS
140115

DRAWING TITLE:
**FOUNDATION PLAN
AND DETAILS**

REVISION:	ISSUE:
REVISION:	BIDDING:
REVISION:	SCALE:
REVISION:	AS NOTED
REVISION:	DATE:
REVISION:	03/06/2015

A2.0

ELECTRICAL AND ACCESSORY SCHEDULE			
SS = STAINLESS STEEL PL = PLASTIC AL = ALUMINUM			
REF	DESCRIPTION	MATERIAL / COLOR	
E1	200 AMP LOAD CENTER SERVICE PANEL WITH COVER / SURFACE MOUNT	PASS AND SEYMOUR	ENAMELED STEEL/GRAY
E2	20A GFCI DUPLEX OUTLET AND COVER/ FLUSH MOUNT @ 10'-0" AFF**	PASS AND SEYMOUR 2097	WHITE/ SS US32D
E3	20A GFCI DUPLEX OUTLET AND COVER/ SURFACE MOUNT @ 4'-0" AFF**	PASS AND SEYMOUR 2097	WHITE/ SS US32D
E4	20A FED SPEC USB CHARGERS WITH RECEPTICAL/ SURFACE MOUNT @ 4'-0" AFF	PASS AND SEYMOUR TR5362USB	WHITE/ SS US32D
E5	20A DUPLEX OUTLET AND COVER/ SURFACE MOUNT @ 4'-0" AFF	PASS AND SEYMOUR P55362	WHITE/ SS US32D
E6	20A DUPLEX OUTLET AND COVER/ FLUSH MOUNT @ 10'-0" AFF	PASS AND SEYMOUR P55362	WHITE/ SS US32D
E7	RESERVED	PASS AND SEYMOUR	SS / US32D
E8	RESERVED		
E9	RESERVED		
E10	RESERVED		
E11	RESERVED		
E12	24" 1/4 HP QUIET WALL MOUNT OSCILLATING FAN MOUNTED @ 10'-0" AFF*	AIR KING (LASCO) 99539	STEEL/ BLACK
E13	LED LOW BAY FIXTURE 26 WATTS (COOL 5000K)	RAB LIGHTING GPLD26	AL/ BRONZE
E14	LED LOW BAY FIXTURE 52 WATTS (COOL 5000K)	RAB LIGHTING GPLD52	AL/ BRONZE
E15	LED WALL MOUNT EXTERIOR DOORWAY LIGHT 12 WATTS (COOL 5000K)	RAB LIGHTING ENTERA 12	AL/ BRONZE
E16	(5) EXTERIOR SENSOR WITH 360° + 180° COVERAGE, PHOTOELECTRIC CONTROL, EVENING TIMER, SURGE PROTECTION AND SCANNING LEDS; MANUAL OVER RIDE WALL SWITCH IN ELECTRICAL ROOM	RAB LIGHTING STL360	AL/ BRONZE
E17	(5) INTERIOR SENSOR WITH 360° COVERAGE, PHOTOELECTRIC CONTROL, EVENING TIMER, SURGE PROTECTION AND SCANNING LEDS; MANUAL OVER RIDE WALL SWITCH IN ELECTRICAL ROOM	RAB LIGHTING LSO 2500 120**	AL/ WHITE
E18	EXTERIOR WEATHERPROOF SINGLE GANG BOX AND COVER WITH GFCI OUTLET	PASS AND SEYMOUR 4511 AND WP826 AND 2097	CAST ALUMINUM/ GRAY

* ONE RECEPTICAL IN EACH DUPLEX MOUNTED @ 10'-0" AFF SHALL BE SWITCHED TO OPERATE FAN; SWITCH LOCATED IN ELECTRICAL ROOM ** OR GFCI CIRCUIT BREAKERS *** MOUNT @ 9'-0" MIN.

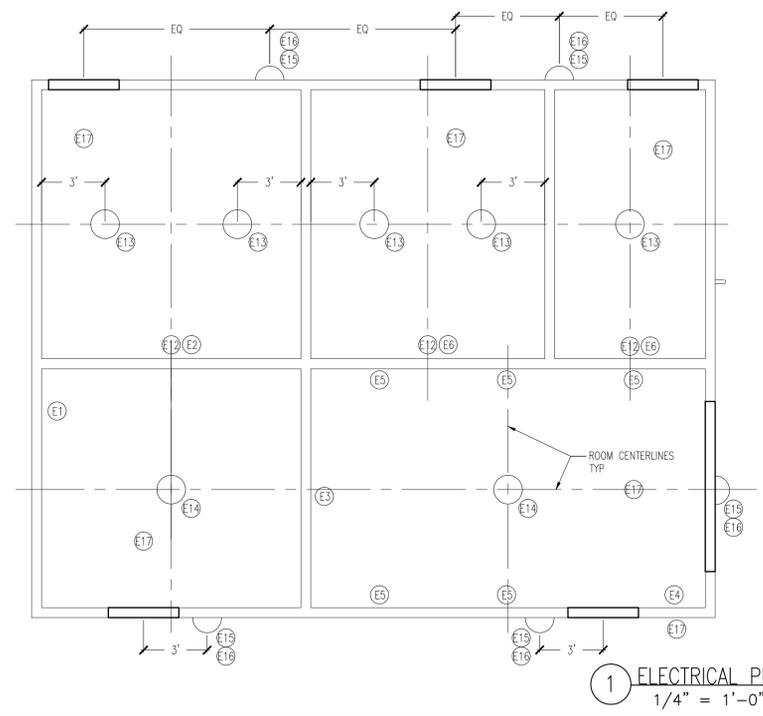
NOTES:
 PROVIDE SECURE FRAMING AND/OR BLOCKING TO MOUNT INTERIOR LED LOW BAY FIXTURES SO LENS IS FLUSH WITH UNDERSIDE OF TRUSSES; PROVIDE SECURE FRAMING AND/OR BLOCKING TO MOUNT SENSORS PER MANUFACTURER'S INSTRUCTIONS. ALL FIXTURES AND DEVICES SHALL BE SURFACE MOUNTED TO CMU AND FLUSH MOUNTED TO GWB/FRAMING; ALL EXPOSED CONDUIT, FITTING, BOXES AND OTHER ACCESSORIES SHALL BE GALVANIZED, HEAVY DUTY. ALL CONDUIT, FITTING, BOXES AND OTHER ACCESSORIES SHALL BE INSTALLED LEVEL, PLUMB AND PARALLEL TO THE SURFACE UPON WHICH THEY ARE MOUNTED. UNDERGROUND CONDUIT SHALL BE WATERPROOF PVC OR EQ. ALL NECESSARY SWITCHES SHALL BE LOCATED IN THE ELECTRICAL ROOM PER OWNER'S DIRECTION. ALL SWITCHES SHALL BE IDENTIFIED PER LOCATION AND OPERATION WITH PERMANENT ADHESIVE VINYL LABELS. ALL DEVICES TO HAVE SS COVERS.
 ALL EXTERIOR WALL MOUNTED FIXTURES, DEVICES AND EQUIPMENT SHALL BE MOUNTED ON SOLID BLOCKING AND A FINISHED PANEL THAT PROVIDES A CONSISTENT FLAT SURFACE; NO ELECTRICAL EQUIPMENT, DEVICE OR FIXTURE SHALL BE MOUNTED DIRECTLY TO LAP SIDING.

ELECTRICAL DESIGN IS DELEGATED TO THE CONTRACTOR; PRODUCTS SPECIFIED HEREIN OR APPROVED SUBSTITUTES SHALL BE INCLUDED IN THE DESIGN. ELECTRICAL DESIGN SHALL INCLUDE BUT NOT BE LIMITED TO: LOADING, CIRCUITING, WIRING AND POWERING ALL EQUIPMENT, DEVICES, ACCESS PANEL, DOORS AND BOXES, FITTINGS, CONTROLLERS, LIGHTING, SENSORS AND PLUMBING FIXTURES IN THE SCOPE OF WORK TO PROVIDE A FULLY FUNCTIONAL AND CODE COMPLIANT ELECTRICAL SYSTEM. THE DESIGN SHALL INCLUDE ALL SPECIFIED EQUIPMENT, DEVICES AND ACCESSORIES AS DESCRIBED IN THE CONTRACT DOCUMENTS AND SCHEDULES OR APPROVED SUBSTITUTES COMPLIANT WITH PROJECT MANUAL SECTION 013300 SUBSTITUTION PROCEDURES.

PLUMBING AND ACCESSORY SCHEDULE		
SS = STAINLESS STEEL PL = PLASTIC AL = ALUMINUM		
REF	DESCRIPTION	MATERIAL / COLOR
B1	RESERVED	
B2	BOBRICK B-2892 TOILET TISSUE DISPENSER	SS / US32D
B3	BOBRICK B-5806.99 X 42 GRAB BAR UNISEX ONLY	SS / US32D PEENED OR KNURLED
B4	BOBRICK B-983 COAT HOOK UNISEX ONLY	SS / US32D
B5	KOALA CARE KB200-01SS CHANGING STATION UNISEX ONLY	SS & PL / US32D AND GRAY
B6	XLERATOR XL-SB HAND DRYER WITH RECESS KIT 40502**	SS / US32D
B7	ELKAY WATER FOUNTAINS L2STLDDWSLK WITH CANE APRON LKAPREZL	SS / US32D
B8	BOBRICK B-293 18 X 30 MIRROR UNISEX ONLY	SS / US32D
B9	TOTO TOILET CT708E-EV VALVE TET3GN31 SEAT SC534	CHINA SS PL / WHITE US32D
B10	TOTO URINAL UT104EV VALVE TEU3LN11	CHINA SS / WHITE US32D
B11	TOTO LAVATORY LT308 VALVE TEL3LW10R* UNISEX ONLY	CHINA SS / WHITE US32D
B12	TOTO LAVATORY LT307 VALVE TEL3LW10R* MENS AND WOMENS	CHINA SS / WHITE US32D
B13	BOBRICK B-165 18 X 24 MIRROR MENS AND WOMENS	SS / US32D
B14	T&S BRASS AND BRONZE WORKS B-1092 SHOWER HEAD	SS / US32D
B15	T&S BRASS AND BRONZE WORKS B-1029 SHOWER CONTROL	SS / US32D
B16	ZURN OR JR SMITH VANDAL PROOF SELF-LEVELING SATIN BRONZE FLOOR DRAIN	SS / US32D
B17	WOODFORD BRASS VANDAL PROOF EXTERIOR SPIGOT SL65P-X	CHROMED BRASS / MANUF. STANDARD
B18	WOODFORD BRASS VANDAL PROOF INTERIOR SPIGOT 24P + SL-24	CHROMED BRASS / MANUF. STANDARD
B19	BRADLEY OVERHEAD BRACED PHENOLIC SERIES 400 SENTINEL PARTITIONS WITH SS HARDWARE, INCLUDING BUT NOT LIMITED TO: SHOES, CONTINUOUS GEAR HINGES, AND CONTINUOUS U-BRACKETS	STAINLESS STEEL, PHENOLIC /STOCK COLOR PER OWNER CHOICE
B20	BRADLEY SOLID PHENOLIC MODEL#4 24"X48" WALL HUNG PRIVACY SCREEN WITH SS CONTINUOUS U-BRACKET	STAINLESS STEEL, PHENOLIC /STOCK COLOR PER OWNER CHOICE
B21	RESERVED	

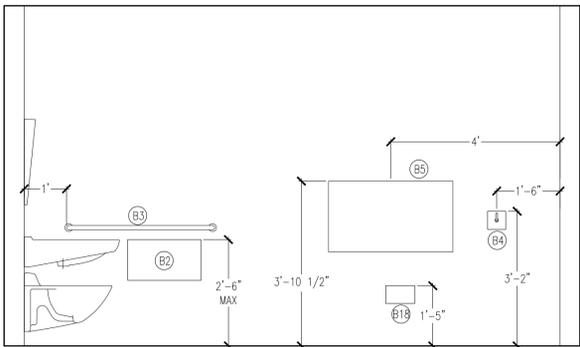
NOTES:
 THE CONTRACTOR SHALL PROCURE, SUPPLY AND INSTALL A FULLY FUNCTIONAL PLUMBING SYSTEM UNDER THE PARAMETERS SET FORTH BELOW:
 PLUMBING SUPPLY AND DRAIN LINES SHALL BE SLOPED AND FITTED WITH DEVICES TO ALLOW BACK-DRAINING AND COMPRESSED AIR BLOW-OUT FOR WINTERIZATION; EXPOSED PLUMBING IN PUBLIC AREAS MATERIALS SHALL BE HEAVY CHROMED BRASS UNLESS UNDER-LAVATORY PLUMBING SHALL BE PROTECTED BY ADA COMPLIANT COVERS IN THE ACCESSIBLE BATHROOM. VENTS SHALL BE ROUTED TO PROVIDE THE MINIMUM NUMBER OF ROOF PENETRATIONS POSSIBLE; ROOF PENETRATION(S) SHALL OCCUR ON THE NORTH FACING ROOF. WATER HAMMER ARRESTORS SHALL BE INSTALLED. ALL EXPOSED FIXTURES, EQUIPMENT, DEVICES, AND ACCESSORIES SHALL BE VANDAL PROOF TO THE GREATEST EXTENT POSSIBLE.
 ALL LAVATORIES, TOILETS AND URINAL SHALL BE MOUNTED WITH FULL SUPPORT STRUCTURES AS RECOMMENDED BY THEIR MANUFACTURERS TO SUPPORT 300 LBS MINIMUM; ALL TOILETS, URINALS AND LAVATORIES SHALL BE WALL HUNG, ADA COMPLIANT AND THEIR RESPECTIVE OPERATIONAL EQUIPMENT AND MECHANISMS SHALL BE INITIATED BY ADA COMPLIANT ELECTRONIC SENSOR.
 PLUMBING DESIGN IS DELEGATED TO THE CONTRACTOR; PRODUCTS SPECIFIED HEREIN OR APPROVED SUBSTITUTES SHALL BE INCLUDED IN THE DESIGN. PLUMBING DESIGN SHALL INCLUDE BUT NOT BE LIMITED TO: SIZING, ROUTING, PIPING, DRAINING, VENTING AND SUPPLYING ALL EQUIPMENT, DEVICES, VALVES, ACCESS PANELS, DOORS AND BOXES, FITTINGS, CONTROLLERS, SENSORS AND FIXTURES IN THE SCOPE OF WORK TO PROVIDE A FULLY FUNCTIONAL AND CODE COMPLIANT PLUMBING SYSTEM.

* MOUNT SINGLE SUPPLY CONTROLLER ON STORAGE SIDE OF WALL ** USE RECESS KIT FOR UNISEX ONLY; SURFACE MOUNT MENS AND WOMENS

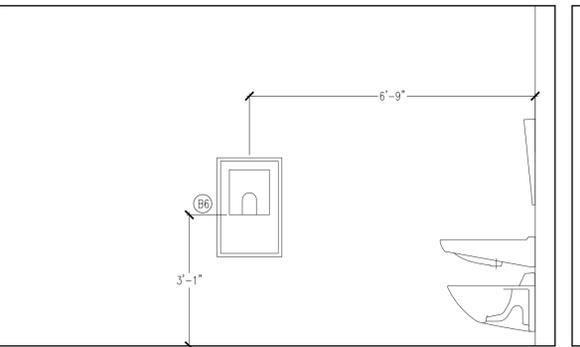


2 SCHEDULES

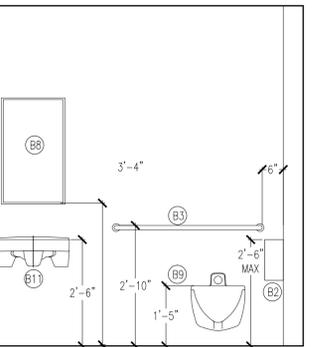
ELEVATION B



ELEVATION C



ELEVATION A



3 ACCESSIBLE BATHROOM ELEVATIONS
1/2" = 1'-0"

OPENINGS AND PARTITIONS SCHEDULE			
SS = STAINLESS STEEL PL = PLASTIC AL = ALUMINUM			
REF	DESCRIPTION	MANUFACTURER	COLOR
O1	PULTRUDED FIBERGLASS FRAME AF-150 (6-3/4") AND DOOR AF-100: 3'-4" X 6'-8" SMOOTH	SPECIAL LITE/ UNIVERSAL PULTRUSIONS	STOCK COLOR PER OWNER
O2	DECK-MOUNTED FIXED SKYLIGHT 24" X 48" NOM. WITH TEMPERED INSULATING GLASS	VELUX D06	BRONZE
O3	20 GAUGE STAINLESS STEEL 96"W X 84"H NOM. PUSH UP ROLLING DOOR	CORNELL ESD10	SS US32D
O4	PAINTED 32"W X 16"H NOM AL LOUVER WITH INSECT SCREEN AND PLEXIGLASS PANEL FOR WINTERIZATION	ARCHITECTURAL LOUVERS E4WH	STOCK COLOR PER OWNER
O5	SOLID PHENOLIC CORE OVERHEAD BRACED TOILET PARTITIONS	BRADLEY SERIES 400 SENTINEL	STOCK COLOR PER OWNER

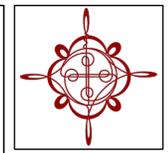
HARDWARE SET A: THRESHOLD: PEMKO 154-A SADDLE | HINGE: PEMKO HEAVY DUTY AL CONT GEARED-SATIN/BRUSHED | EXTERIOR/INTERIOR PUSH/PULL: ROCKWOOD 91 SS PUSH-PULL PLATE WITH SS HIGH SECURITY VANDAL RESISTANT DEADBOLT WITH MAAB COMPLIANT THUMB TURN, KEYPED PER OWNER | CORBIN RUSSWIN DC3000 DOOR CLOSER WITH HOLD-OPEN | 36"W X 12" .125 SS KICK PLATE (1) EACH SIDE | (4) SOLID FRP "T" STRAPS PER JAMB

HARDWARE SET B: THRESHOLD: PEMKO 154-A SADDLE | HINGE: PEMKO HEAVY DUTY AL CONT GEARED-SATIN/BRUSHED | EXTERIOR/INTERIOR PUSH/PULL: ROCKWOOD 91 SS PUSH-PULL PLATE WITH SS HIGH SECURITY VANDAL RESISTANT DEADBOLT, KEYPED PER OWNER | CORBIN RUSSWIN DC3000 DOOR CLOSER WITH HOLD-OPEN | 36"W X 12" .125 SS KICK PLATE (1) EACH SIDE | (4) SOLID FRP "T" STRAPS PER JAMB

FINISH SCHEDULE			
REF	LOCATION	MANUFACTURER	COLOR
F1	EXTERIOR TRIM, SIDING AND SCREENS	BENJAMIN MOORE	STOCK COLOR PER OWNER
F2	FIBERGLASS DOORS AND FRAMES	BENJAMIN MOORE	STOCK COLOR PER OWNER
F3	INTERIOR SURFACES IN BATHROOMS, ELECTRICAL ROOM AND STORAGE AREA ABOVE 8'-0"	BENJAMIN MOORE	STOCK COLOR PER OWNER
F4	INTERIOR WALL SURFACES IN BATHROOMS BELOW 8'-0"	TNEMEC	STOCK COLOR PER OWNER
F5	INTERIOR FLOOR SURFACES IN BATHROOMS BELOW 8'-0"	TNEMEC	STOCK COLOR PER OWNER
F6	ALL INTERIOR FLOOR SURFACES IN STORAGE AND ELECTRICAL ROOM	WR MEADOWS	CLEAR
F7	ALL INTERIOR WALL SURFACES IN STORAGE AND ELECTRICAL ROOM BELOW 8'-0"	TNEMEC	CLEAR

PRIMER AND FINISH:
 F1: PRIMER: SURE SEAL LATEX PRIMER/SEALER FINISH: ULTRA SPEC SATIN (448) 2 COATS MIN.
 F2: PRIMER: SURE SEAL LATEX PRIMER/SEALER FINISH: ULTRA SPEC SATIN (448) 2 COATS MIN.
 F3: PRIMER: SURE SEAL LATEX PRIMER/SEALER FINISH: ULTRA SPEC SATIN (448) 2 COATS MIN.
 F4: PRIMER: SERIES 1254 EPOXYBLOCK WB FILLER @ 100 SF/GAL 1ST FINISH COAT: SERIES 280 TNEME-GLAZE AT 8.0 MILS DFT 2ND FINISH COAT: SERIES 1081 ENDURA-SHIELD WB @ 3 MILS DFT
 F5: PRIMER: SERIES 287 ENVIRO-POX @ 4 MILS DFT FINISH: SERIES 287 ENVIRO-POX @ 4 MILS DFT; EVENLY BROADCAST GARNET OR QUARTZ ANTI-SLIP AGGREGATE IN WET SECOND COAT AT A RATE OF 5 LBS PER 100 SF
 F6: LIQUI-HARD AT A RATE OF 1 GAL/300 SF TO 8 MILS DFT
 F7: TWO APPLICATIONS, WET ON WET, 633 PRIME-A-PELL AT A RATE OF 1 GAL/100 SF

ALL SURFACES SHALL BE PREPARED BY FILING, SANDING AND SEALING PRIOR TO APPLICATION OF PRIMER AND FINISH



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 BEVERLY, MASSACHUSETTS
 14015

DRAWING TITLE:
**SCHEDULES, ELECTRICAL PLAN
 AND BATHROOM ELEVATIONS**

ISSUE	BIDDING
SCALE	AS NOTED
DATE	03/06/2015

A3.0