

TOWN OF BOURNE
INVITATION TO BID

1.01 INVITATION

The Town of Bourne, Massachusetts, hereinafter referred to as the “Awarding Authority” acting by and through its Engineer invites sealed bids for construction of and replacement to the header of the:

Monument Beach Fire Station 4 Header and Door

in accordance with the Bidding and Contract Documents prepared by: Gale Associates, Inc. hereinafter referred to as Designer, will be received at the Town of Bourne Town Hall, 24 Perry Ave, Buzzards Bay, MA 02532 at the dates and times specified below at which time the bids will be publicly opened and posted online: www.townofbourne.com.

General Bids: April 6, 2023

All bids shall be clearly identified as Bids and endorsed with the name and address of the Bidder.

1.02 DESCRIPTION OF PROJECT

The estimated cost range of this Project is \$45,000.00

1.03 AVAILABILITY OF THE BIDDING AND CONTRACT DOCUMENTS

- A. Copies of the Bidding and Contract Documents including Drawings, Specifications and Bid Forms in electronic form will be available at www.townofbourne.com.

1. Documents Available to Bidders: 1:30PM on March 22, 2023

1.04 EXAMINATION LOCATIONS FOR BIDDING AND CONTRACT DOCUMENTS

A. Documents may be examined (but not removed) during regular office hours at the following locations: Town of Bourne Town Hall, 24 Perry Ave, Buzzards Bay, MA 02532

1.05 COMPLIANCE WITH PROVISIONS OF MASSACHUSETTS GENERAL LAWS

- A. All bids, bid procedures and the award of General Contract and sub-contracts for this project are subject to applicable public bidding laws of the Commonwealth of Massachusetts, including M.G.L. c. 30 § 39M and/or M.G.L. c. 149, §§ 44A-F, as amended and all applicable provisions of the Massachusetts General Laws, as amended are hereby incorporated by reference herein as if they were set out herein in their entirety.
- B. The Awarding Authority is exempt from sales and federal excise tax to the extent permitted under law; bidders should not include such taxes in figuring or in references to any bid.

- C. Attention is directed to the minimum wage rates to be paid as determined by the Commissioner of Labor and Workforce Development, Division of Occupational Safety under the provisions of M.G.L. c. 149, §§ 26 through 27H inclusive; a copy of which is included in the Contract Documents, and will be made a part of the Contract.

1.06 BIDDER'S AGREEMENT TO HOLD BID

- A. The Bidder agrees that its bid shall be good and may not be withdrawn for a period of thirty (30) days, Saturdays and Sundays and legal holidays excluded, after the opening of bids.

1.07 AWARD OF CONTRACT AND AWARDED AUTHORITY PROVISIONS

- A. Selection of the contractor will be based upon bidder qualifications, including evidence of past performance in similar projects, and bid price. The contract will be awarded to the bidder deemed by the Awarding Authority to be the lowest responsible and eligible bidder. The successful bidder shall execute the Contract Agreement presented by the Town of Bourne. Award of the General Contract will be made within thirty (30) days, (Saturdays, Sundays and legal holidays excluded) after the opening of General Bids.
- B. The award of the Contract shall be conditioned upon the continuation of the availability of the necessary funds for this Project. If the funds for the Project are not fully available at the time of the award of the contract, the award of the Contract shall not occur.
- C. The Town of Bourne is an affirmative action/equal opportunity owner. All Bids and the Contract shall be subject to all applicable Bylaws, regulations and policies in effect in the Town of Bourne, as they may be amended.
- D. The Awarding Authority reserves the right to waive any informalities in or to reject any or all bids, or take whatever other action may be deemed to be in the public interest to do so, and to act upon the bids and make its award in any lawful manner.

TOWN OF BOURNE, MASSACHUSETTS, acting by and through its: Engineer, Gale Associates, Inc.

Town of Bourne

TOWN OF BOURNE
INSTRUCTIONS TO BIDDERS

PART 1 GENERAL

1.00 RELATED DOCUMENTS

1.01 RECEIPT AND OPENING OF BIDS

- A. The Town of Bourne, Massachusetts hereinafter called the Owner or Awarding Authority acting by and through its Engineer, Gale Associates, Inc., will receive sealed Bids at Bourne Town Hall, 24 Perry Ave., Buzzards Bay, 02532 until 4/6/23 at 4 PM and opened at 4:10 PM.
- B. Any bid may be withdrawn prior to the above scheduled time for the opening of bids or authorized postponement thereof. Any bid received after the time and date specified will not be considered. The bidder agrees that his bid shall be good and may not be withdrawn for a period of thirty (30) days, Saturdays and Sundays, and legal holidays excluded, after the opening of bids. Bids may be withdrawn within the time specified herein by certified mail, return receipt requested or by a national mail delivery service provided that such written notice of withdrawal is received by the Awarding Authority prior to the scheduled time for the opening of bids.

1.02 LOCATION AND WORK TO BE DONE

- A. The Work consists of providing services to remove and dispose of existing garage door and any parts of the building associated with the work, and install new overhead coiling door, steel framing and flashing as shown in the Construct Drawings and specifications for the Awarding Authority, the Town of Bourne, Massachusetts, acting by and through its Engineer, Gale Associates, Inc., and as more specifically described in the attached Contract Specifications.
- B. The Contractor shall furnish labor, services, materials, equipment, plant machinery, apparatus appliances, tools, supplies and all other things necessary to do all of the work required for the full completion of each item of the Work herein specified.
- C. The Work to be done and paid for under any item shall not be limited to the exact extent mentioned or described but shall include all incidental work necessary or customarily done for the completion of that item.

1.03 PREPARATION OF BID

- A. Each bid must be submitted on the prescribed form which shall be supplied by the Town of Bourne to all persons requesting them. All blank spaces for bid prices must be filled in, in ink or typewritten, in both words and figures.
- B. Each bid must be submitted in a sealed envelope bearing on the outside the name of the bidder, his address, and endorsed with the name of the project.
- C. If mailed, Bids shall be mailed to the Awarding Authority via certified mail, return receipt requested or via a national delivery service which requires a receipt for delivery. Bids transmitted by certified mail or via national delivery service shall be received by the Awarding Authority prior to the hour designated for receipt of Bids.
- D. Submit the following items (fully executed) with sealed bids:

General Bid Form (in duplicate, fully filled out and signed)
Certificate of Non-Collusion
Certificate of Compliance with Tax Laws
Certificate to Corporate Bidder
Certificate Regarding Prevailing Wage Rate

General Bid Forms will be furnished to all General Bidders for execution.

The above checklists notwithstanding, the bidding Contractor shall bear all responsibility for the completeness and correctness of his Bid.

- E. The total dollar amount of each bid will be read, and the three (3) apparent lowest bids will be selected for further consideration. These three apparent low bids will be forthwith read aloud for the benefit of the other bidders and the bid opening procedure will be closed. All those present at the bid opening may examine all bids after the bid opening and after the reading of the three apparent low bids.

1.05 MODIFICATION

- A. Any bidder may modify his bid by written communication at any time prior to the scheduled closing time for receipt of bids, provided such written communication is received by the Owner prior to the closing time.
- B. The written communication shall not reveal the bid price but shall provide the addition or subtraction or other modification so that the final prices or terms will not be known by the Owner until the sealed bid is opened.

1.06 ABILITY AND EXPERIENCE OF BIDDER

- A. No award will be made to any bidder who cannot satisfy the Owner that he has sufficient ability and experience in this class of work and sufficient capital and plant to enable him to prosecute and complete the work successfully within the time named. The Owner's decision or judgment on these matters will be final, conclusive, and binding.
- B. The Owner may make investigations as he deems necessary, and the bidder shall furnish to the Owner, all such information and data for this purpose as the Owner may request.

1.07 CONDITIONS OF WORK

- A. Each bidder must familiarize himself fully with the conditions relating to the construction of the project and the employment of labor thereon. Failure to do so will not relieve a successful bidder of his obligation to furnish all material and labor necessary to carry out the provisions of his contract. Insofar as possible, the Contractor, in carrying out his work, must employ such methods or means as will not cause any interruption of or interference with the work of any other Contractor.

1.08 ADDENDA AND INTERPRETATIONS

- B. Not interpretation of the meaning of the plans, specifications or other pre-bid documents will be made to any bidder orally. All information given to bidders other than by means of the plans, specifications, or by addenda, as described below, is given informally and shall not be used as the basis of a claim against the Owner. Every request for such interpretation should be in writing addressed to the Town of Bourne, Attn: Liz Hartsgrove, 24 Perry Ave, Buzzards Bay, MA 02532. Any and all such interpretations and any supplemental instructions will be in the form of written addenda to the specifications. Failure of any bidder

to receive any such addendum or interpretation shall not relieve such bidder from any obligation under his bid as submitted. All addenda so issued shall become part of the Contract Documents.

1.11 LAWS AND REGULATIONS

- A. The bidder's attention is directed to the fact that all applicable state laws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the contract throughout, and they will be deemed to be included in the Contract the same as though herein written out in full. Attention is directed to Document 00800, GENERAL CONDITIONS (and all Addenda) and to other applicable sections of this specification.

1.13 OBLIGATION OF BIDDER

- A. At the time of the opening of bids each bidder will be presumed to have inspected the site and to have read and to be thoroughly familiar with the Contract Documents (including all addenda). The failure or omission of any bidder to examine any form, instrument, or documents shall in no way relieve any bidder from any obligation with respect to his bid. The failure of any bidder to visit and examine the site and acquaint himself with the conditions as they exist so that he may fully understand the facilities, difficulties, and restrictions attending to the work shall not relieve any Bidder from any obligation with respect to his Bid as submitted.
- B. Each Bidder must examine all plans, surveys, measurements, dimensions, calculations, estimates and all conditions under which the work is to be performed.

1.14 INFORMATION NOT GUARANTEED

- A. All information given in the Contract Documents relating to subsurface and other conditions, natural phenomena, existing pipes, and other structures is from the best sources at present available to the Owner. All such information is furnished only for the information and convenience of bidders and is not guaranteed.
- B. It is agreed and understood that the Owner does not warrant or guarantee that the subsurface or other conditions, natural phenomena, existing pipes, or other structures encountered during construction will be the same as those indicated in the Contract Documents.

1.15 RIGHT TO REJECT BID

- A. The Owner reserves the right to waive any informalities or reject any and all bids should the Owner deem it to be in the public interest to do so.
- B. The Owner may also reject bids which in its sole judgment are either incomplete, conditional, obscure or not responsive or which contain additions not called for, erasures not properly initialed, alterations, or similar irregularities, or the Owner may waive such omissions, conditions or irregularities. Failure to reject any such bid shall not validate such bid or preclude the Awarding Authority from subsequently rejecting it.

1.17 TIME FOR COMPLETION

- A. The bidder must agree to commence and to fully complete work within the time limit stated in Document FORM FOR GENERAL BID. The Bidder agrees to commence work on the Contract on or before the fourteenth (14th) day following the Notice of Award and to thereafter diligently and continuously carry out the work in such manner so as to fully complete all the different elements of the work within seven (7) days thereafter.

1.18 COMPARISON OF BIDS

- A. Bids will be compared on the basis of the quantities and unit and lump sum prices set forth in the bid forms.
- B. In the event that there is a discrepancy in Document 00310, FORM FOR GENERAL BID between the lump sum or unit prices written in words and figures, the prices written in words will govern.
- C. The Owner agrees to examine and consider each Document 00310, FORM FOR GENERAL BID submitted in consideration of the qualifications of the bidder and the bidder's agreements, as hereinabove set forth and as set forth in Document 00310, FORM FOR GENERAL BID.

1.19 AWARD OF CONTRACT

- A. If the funds necessary for the work described for this Project are not fully available at the time of the award of the Contract, the award of the Contract shall not occur.
- B. The Contract will be awarded to "the lowest responsible and eligible bidder" pursuant to M.G.L. c. 30, § 39M, as amended. Such a bidder shall possess the skill, ability and integrity necessary for the faithful performance of the work, shall be able to furnish labor that can work in harmony with all other elements of labor employed, or to be employed, in the work, and shall otherwise comply with all applicable provisions of law.
- D. All general bids shall stand available for acceptance during the full period and time in which the respective bid deposits are retained.
- E. The selected General Contractor shall, within five (5) days (Saturdays, Sundays and legal holidays excluded) after presentation thereof by the Awarding Authority, execute a contract in accordance with the terms of his General and the contract documents and in accordance with Massachusetts General Laws.
- F. In the event that the selected General Bidder fails to execute the Contract upon his part the Awarding Authority reserves the option to accept the bid of the next lowest and eligible General Bidder, in which case such acceptance shall have the same affect on such bidder as if he were the original selected General Bidder.

1.20 WAGE RATES

- A. Prevailing Wage Rates as determined by the Commissioner of the Department of Labor and Workforce Development, Division of Occupational Safety under the provisions of the M.G.L. c. 149, §§ 26 through 27G, as amended, apply to this Project. It is the responsibility of the Contractor, before bid opening, to request if necessary, any additional information on Prevailing Wage Rates for those trades people who may be employed for the proposed work under this Contract.

1.23 CONTRACTOR RECORDS

- A. The Contractor shall comply with provisions of M.G.L. c. 30, § 39R, concerning Contractor Records.

1.24 INSURANCE

- A. The Contractor shall carry and continuously maintain until completion of the Contract, insurance as specified in the Document 00800, GENERAL CONDITIONS (and all Addenda) and in such form as shall protect him performing work covered by this Contract, or the Town of Bourne and its employees, agents and officials, from all claims and liability for damages to bodily injury, including accidental death, and for property damage, which may arise from operations under this Contract. The Contractor covenants and

agrees to hold the Town and its employees, agents and officials harmless from loss or damage due to claims for personal injury and/or property damage arising from, or in connection with operations under this Contract.

1.25 AFFIRMATIVE ACTION/EQUAL OPPORTUNITY

- A. The Town of Bourne is an affirmative action/equal opportunity owner.

END OF DOCUMENT

TOWN OF BOURNE

FORM FOR GENERAL BID

To the Awarding Authority:

The Undersigned proposes to furnish all labor and materials required for the Monument Beach Fire Station 4 Header and Door project in Bourne, Massachusetts in accordance with the accompanying plans and specifications prepared by Gale Associates, Inc. for the contract price specified below, subject to additions and deductions according to the terms of the specifications.

This bid includes addenda numbered _____.

The proposed contract price is: _____ dollars (\$_____).

The undersigned agrees that, if he is selected as general contractor, he will within five days, Saturdays, Sundays and legal holidays excluded, after presentation thereof by the awarding authority, execute a contract in accordance with the terms of this bid.

The undersigned hereby certifies that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work; that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and that he will comply fully with all laws and regulations applicable to awards made subject to M.G.L. c. 149, § 44A.

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

The Bidder hereby agrees that if selected as the Contractor it will commence work under this contract on or before a date to be fixed in the written "Notice to Proceed" given by the Owner to the Contractor and to fully complete the project within 7 consecutive days of the start date fixed in the "Notice to Proceed."

The undersigned understands that all bids for this project are subject to the applicable bidding laws of the Commonwealth of Massachusetts, including General Laws Chapter 149, Sections 44A to 44J, as amended. The contract will be awarded to the lowest responsible and eligible bidder. The undersigned understands that the Owner reserves the right to reject any or all bids and to waive any informalities in the bidding.

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

The undersigned Bidder hereby certifies it will comply with the specific affirmative action steps contained in the EEO/AA provisions of this Contract, including compliance with the Disadvantaged Business Enterprise provisions as required under these contract provisions. The contractor receiving award of the contract shall incorporate the EEO/AA provisions of this contract into all subcontracts and purchase orders so that such provisions will be binding upon each subcontractor or vendor.

Respectfully submitted:

Date _____ By _____

(Signature)

(Name - Typed or Printed)

(Title)

(SEAL - if bid is by a corporation)

(Business Name)

(Federal ID Number)

(Business Address)

(City and State)

(Telephone Number)

**MONUMENT BEACH FIRE STATION 4 DOOR
14 THOMAS PHILBRICK ROAD
BOURNE, MA 02532**

February 15, 2023

Prepared For:

**Town of Bourne
24 Perry Avenue
Bourne, MA 02532**

Prepared By:

**Gale Associates, Inc.
163 Libbey Parkway
Weymouth, MA 02189**

GALE JN 841010

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**MONUMENT BEACH FIRE STATION 4 DOOR
14 THOMAS PHILBRICK ROAD
BOURNE, MA 02532**

GALE JN 841010

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SUMMARY OF WORK

SECTION 01 11 00

PART 1 – GENERAL

1.1 PROJECT DESCRIPTION

In general, the Contractor shall supply all labor, materials, equipment, temporary protection, tools and appliances necessary for the proper completion of the work in their respective Section(s), as required in the Specifications, in accordance with good construction practice, and as required by the materials manufacturer, as amended. The work under all Sections generally includes, but is not limited to, the following:

- A. Supply all necessary chutes, disposal facilities, transportation and labor necessary to dispose of all demolished materials, dirt, and debris off-site in a legal dumping area. Each Contractor shall obtain all permits necessary to transport and dispose of all materials, rubbish and debris affected by their scope of work.
- B. Supply all shoring and protection necessary to protect the building areas, building systems and landscape areas.
- C. Complete all associated work in accordance with the project specifications.
- D. Clean and restore all areas affected by the work.
- E. Demolish existing garage door and install new overhead coiling door.
- F. Remove and relocate existing HSS post.
- G. Remove and dispose of existing W18 header beam.
- H. Install new HSS header beam as shown in the Contract Drawings.
- I. Connect the new HSS header beam to the existing HSS post and W10 beam as shown in the Contract Drawings.
- J. Remove and relocate existing "Bourne Fire Department Station 4" sign at the Town of Bourne's option.
- E. Coordinate the disconnection, relocation and re-installation of existing electrical and mechanical units with that of Section 26 10 00 – Temporary Mechanical / Electrical Disconnects.
- F. Install sheet metal flashing, associated clips and receivers, and sheet metal counter flashings as shown on the Contract Drawings, and as required to properly protect the new overhead coiling door.

1.2 UNIT PRICES – REFER TO SECTION 01 22 00

1.3 PROJECT CONDITIONS

- A. The Owner's Representative shall review the Contractor's work schedule submittal prior to the start of any work. After defining the locations of the work progress, the Owner shall arrange to control occupancy in the building area adjacent to each day's work. It shall be the responsibility of the Contractor to inform the Owner's Representative if their work locations(s) for each day is different from the schedule and to update any changes into the schedule.
- B. The Contractor shall supply, install and maintain all barriers, protection, warning lines, lighting and personnel required to segregate the work area(s) and to prevent damage to the buildings, their occupants and the surrounding landscaped and paved areas. All applicable OSHA and D.L.I. requirements shall be observed by the Contractor and Sub-Contractors. Refer to Section 01 50 00 – Temporary Facilities for additional information.
- C. The Owner requires the Contractor to conform to all requirements of this specification as well as those of the approved manufacturers.
- D. All materials and workmanship shall be of the best construction practice. Refer to the requirements of the manufacturer, recommendations and these specifications for handling and installation of all materials.
- E. Protect the building and site areas not included in the construction. The Contractor shall replace or repair all building and site damage as a result of the construction to the satisfaction of the Owner at no cost to the Owner.
- F. Supply all labor, vacuums, tools, appliances, shoring, supports or other items required to properly support, elevate and protect fixtures, equipment, and facilities affected by the work and to properly install the work.
- G. The Building and site will be occupied during construction.
- H. At the end of each work day the Contractor shall confirm and make the site safe and secure to all public access to the building's interior and roof areas.
- I. Remove only as much work as can be completely replaced and made weathertight each day.
- J. All debris, dust and dirt shall be swept clean from all exterior and interior surfaces affected by the work. Any interior finishes and floors which are damaged, soiled or affected by the work shall be cleaned, repaired or replaced by the Contractor with a system equal in color, texture, and finish at no additional cost to the Owner.

- K. Any open ducts, grills, thermostats, electric boxes or similar fixtures and items which can be soiled or affected by the work shall be masked, protected and cleaned by the Contractor at no additional cost to the Owner.
- L. Adequate number of skilled workmen who are trained and experienced in the necessary crafts and are completely familiar with the specified requirements and the methods needed for proper performance of the work of each trade shall be provided.
- M. Schedule and execute all work without exposing the interior of the building to the effects of inclement weather. Protect the building, its contents and occupants against such risks, and repair/replace all work-related damage to the satisfaction of the Owner.
- N. Upon completion of the work, all temporary protection installed by the Contractor shall be removed and areas shall be cleaned to the satisfaction of the Owner.

1.4 PRE-CONSTRUCTION CONFERENCE

- A. A Pre-Construction Conference will be held with the Owner, Engineer and Contractor to discuss all aspects of the project. The Contractor's foreman or field representative will attend this Conference. The Conference will not be held until all submittals have been received and reviewed by the Owner and the Engineer as noted in the Section 01 33 00 – Submittal Procedures.

1.5 DIMENSIONS AND QUANTITIES

- A. All dimensions and quantities shall be field-verified by the Contractor. The Contract Documents have been compiled from various sources and may not reflect the actual field conditions at the time of construction.
- B. The Contractor is cautioned to take all necessary precautions and make all necessary investigations to properly supply, fabricate and install the proposed work.
- C. The Owner will not consider unfamiliarity with the project as a basis for any additional compensation.
- D. The general nature, quantity and distribution of the various work items are shown on the Contract Drawings.

1.6 GUARANTEES

Refer to the various technical sections for additional warranty information.

General Contractor Guarantee

Upon completion of the work, and prior to final payment, the General Contractor shall submit a Guarantee of his work to be free from defect in materials and workmanship. This

Monument Beach Fire Station 4 Door at
14 Thomas Philbrick Road
Bourne, MA
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Guarantee shall be for a period of two (2) years, unless noted otherwise in any of the specification sections, and shall be signed by a Principal of the General Contractor's firm and sealed if a corporation.

1.7 INDEMNIFICATION AND WAIVER OF LIENS

- A. Beginning with the second Application for Payment and thereafter, the General Contractor, Sub- Contractors, Sub-sub-Contractors, and suppliers, shall submit an Indemnification and Waiver of Liens for the construction period covered by the previous application.

PART 2 – PRODUCTS

NOT USED

PART 3 – EXECUTION

NOT USED

END OF SECTION

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UNIT PRICES

SECTION 01 22 00

PART 1 - GENERAL

1.1 GENERAL

- A. The Bidders shall submit with their Bids, prices for the performance of Unit Price work. The general scope of the Unit Price work is defined within this section.
- B. The successful Bidder shall coordinate related work and modify or adjust adjacent work as necessary to ensure that work affected by each Unit Price Item is complete and fully integrated into the project.
- C. The specific quantities of Unit Price Work included in the Bid are provided herein. This applies to items whose exact quantities are unknown but are anticipated to exist.
- D. The quantities of unit price work listed in this Section and the Bid and Contract forms are in addition to the quantities shown on the Contract Drawings.
- E. Should the unit prices presented below not be required for this project, they shall be credited to the Owner, less fifteen percent for overhead and profit.

1.2 SCHEDULE OF UNIT PRICES:

- A. Unit Price No. 1: For the removal of existing sideboard and shingles for installation of overhead coiling door more than the carried in the scope of work.
- B. Unit Price No. 2: For sheet metal flashing more than the carried in the scope of work.

The unit prices listed below are above and beyond those indicated above and shall be included by the Contractor under the appropriate Scope of Work. Each unit price will appear on the Contractor's Schedule of Values and will be tabulated as part of the final contract amount.

Monument Beach Fire Station 4 Door at
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No.	Section	Item	Quantity	Unit of Measure	Unit Price Dollars/Cents	=	Total Amount Dollars/Cents (to be carried in Base Bid)
1.	02 41 19	Selective Building Demolition	10	Square Feet	\$	=	\$
2.	07 62 00	Sheet Metal Flashing	10	Square Feet	\$	=	\$

PART 2 – PRODUCTS

NOT USED

PART 3 – EXECUTION

NOT USED

END OF SECTION

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PROJECT MANAGEMENT AND COORDINATION

SECTION 01 31 00

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:
 - 1. Administrative and supervisory personnel.
 - 2. Project meetings.
 - 3. Requests for Information (RFIs).
- B. Related Sections include the following:
 - 1. Division 01 Section "Construction Progress Documentation" for preparing and submitting Contractor's Construction Schedule.
 - 2. Division 01 Section "Execution" for procedures for coordinating general installation and field-engineering services, including establishment of benchmarks and control points.
 - 3. Division 01 Section "Closeout Procedures" for coordinating closeout of the Contract.

1.2 DEFINITIONS

- A. RFI: Request from Contractor seeking interpretation or clarification of the Contract Documents.

1.3 COORDINATION

- A. Coordination: Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operations, included in different Sections that depend on each other for proper installation, connection, and operation.
 - 1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
 - 2. Coordinate installation of different components with other contractors to ensure maximum accessibility for required maintenance, service, and repair.
 - 3. Make adequate provisions to accommodate items scheduled for later installation.
 - 4. Where availability of space is limited, coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair of all components, including mechanical and electrical.
 - 5. No claim for additional compensation or extension of Contract Time will be permitted for conditions resulting from lack of coordination.

- B. Prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings.
 - 1. Prepare similar memoranda for Owner and separate contractors if coordination of their Work is required.
- C. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities and activities of other contractors to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
 - 1. Preparation of Contractor's Construction Schedule.
 - 2. Preparation of the Schedule of Values.
 - 3. Installation and removal of temporary facilities and controls.
 - 4. Delivery and processing of submittals.
 - 5. Preinstallation conferences.
 - 6. Progress meetings.
 - 7. Startup and adjustment of systems.
 - 8. Project closeout activities.
- D. Conservation: Coordinate construction activities to ensure that operations are carried out with consideration given to conservation of energy, water, and materials.
 - 1. Salvage materials and equipment involved in performance of, but not actually incorporated into, the Work. Refer to other Sections for disposition of salvaged materials that are designated as Owner's property.

1.4 SUBMITTALS

- A. Key Personnel Names: Within 10 days of starting construction operations, submit a list of key personnel assignments, including superintendent and other personnel in attendance at Project site. Identify individuals and their duties and responsibilities; list addresses and telephone numbers, including home and office telephone numbers. Provide names, addresses, and telephone numbers of individuals assigned as standbys in the absence of individuals assigned to Project.
 - 1. Keep list current at all times, resubmit upon update.

1.5 ADMINISTRATIVE AND SUPERVISORY PERSONNEL

- A. General: In addition to Project superintendent, provide other administrative and supervisory personnel as required for proper performance of the Work.

1.6 PROJECT MEETINGS

- A. General: Schedule and conduct meetings and conferences at Project site, unless otherwise indicated.
 - 1. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Owner, Project Manager, and Architect of scheduled meeting dates and times.

2. Agenda: Architect or Project Manager shall prepare the meeting agenda and distribute the agenda to all invited attendees.
 3. Minutes: Architect or Project Manager shall record significant discussions and agreements achieved and distribute the meeting minutes to everyone concerned, including Contractor, Owner, Project Manager and Architect, within five days of the meeting.
- B. Preconstruction Conference: Arrange for attendance of subcontractors at Preconstruction Conference convened by Architect, together with any other persons necessary for full review of scheduling and coordination matters for the Project.
1. Attendees: Authorized representatives of Owner, Project Manager, Architect, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the conference. All participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
 2. Agenda: Include the following:
 - a. Tentative construction schedule.
 - b. Phasing.
 - c. Critical work sequencing and long-lead items.
 - d. Designation of key personnel and their duties.
 - e. Procedures for processing field decisions and Change Orders.
 - f. Procedures for RFIs.
 - g. Procedures for testing and inspecting.
 - h. Procedures for processing Applications for Payment.
 - i. Distribution of the Contract Documents.
 - j. Submittal procedures.
 - k. Preparation of Record Documents.
 - l. Use of the premises.
 - m. Work restrictions.
 - n. Owner's occupancy requirements.
 - o. Responsibility for temporary facilities and controls.
 - p. Construction waste management and recycling.
 - q. Parking availability.
 - r. Office, work, and storage areas.
 - s. Equipment deliveries and priorities.
 - t. First aid.
 - u. Security.
 - v. Progress cleaning.
 - w. Working hours.
 - x. Owner-furnished and provided items.
 - y. Work performed under separate contracts.
 3. Minutes: The Architect will record and distribute meeting minutes.
- C. Preinstallation Conferences: Conduct a preinstallation conference at Project site before each construction activity that requires coordination with other construction.
1. Attendees: Installer and representatives of manufacturers and fabricators involved in or affected by the installation and its coordination or integration with other materials and installations that have preceded or will follow, shall

attend the meeting. Advise Architect and Project Manager of scheduled meeting dates.

2. Agenda: Review progress of other construction activities and preparations for the particular activity under consideration, including requirements for the following:
 - a. The Contract Documents.
 - b. Options.
 - c. Related RFIs.
 - d. Related Change Orders.
 - e. Purchases.
 - f. Deliveries.
 - g. Submittals.
 - h. Review of mockups.
 - i. Possible conflicts.
 - j. Compatibility problems.
 - k. Time schedules.
 - l. Weather limitations.
 - m. Manufacturer's written recommendations.
 - n. Warranty requirements.
 - o. Compatibility of materials.
 - p. Acceptability of substrates.
 - q. Temporary facilities and controls.
 - r. Space and access limitations.
 - s. Regulations of authorities having jurisdiction.
 - t. Testing and inspecting requirements.
 - u. Installation procedures.
 - v. Coordination with other work.
 - w. Required performance results.
 - x. Protection of adjacent work.
 - y. Protection of construction and personnel.
3. Architect or Project Manager shall record significant conference discussions, agreements, and disagreements, including required corrective measures and actions.
4. Reporting: Distribute minutes of the meeting to each party present, the Owner, Architect and Project Manager, and to parties who should have been present.
5. Do not proceed with installation if the conference cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of the Work and reconvene the conference at earliest feasible date.

D. Progress Meetings: Schedule progress meetings as necessary. Dates of meetings may coincide with preparation of payment requests.

1. Attendees: In addition to representatives of Owner, Project Manager, and Architect, each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.

PROJECT MANAGEMENT AND COORDINATION

2. Agenda: Review minutes of previous progress meeting. Review other items of significance that could affect progress.
 - a. Contractor's Construction Schedule: Review progress since the last meeting. Determine whether each activity is on time, ahead of schedule, or behind schedule, 'in relation to Contractor's Construction Schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.
 - 1) Review schedule for next period.
 - b. Review present and future needs of each entity present, including the following:
 - 1) Interface requirements.
 - 2) Sequence of operations.
 - 3) Deliveries.
 - 4) Access.
 - 5) Site utilization.
 - 6) Temporary facilities and controls.
 - 7) Work hours.
 - 8) Hazards and risks.
 - 9) Progress cleaning.
 - 10) Quality and work standards.
 - 11) Status of correction of deficient items.
 - 12) Field observations.
 - 13) RFIs.
 - 14) Status of proposal requests.
 - 15) Pending changes.
 - 16) Status of Change Orders.
 - 17) Pending claims and disputes.
 - 18) Documentation of information for payment requests.
 3. Minutes: The Architect will record and distribute the meeting minutes.
 4. Reporting: The Architect will distribute minutes of the meeting to each party present.
 - a. Schedule Updating: Revise Contractor's Construction Schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with the report of each meeting.
- E. Coordination Meetings: Schedule Project coordination meetings as needed. Project coordination meetings are in addition to specific meetings held for other purposes.
1. Attendees: In addition to representatives of the Contractor, each subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.

2. Agenda: Review and correct or approve minutes of the previous coordination meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.
 - a. Combined Contractor's Construction Schedule: Review progress since the last coordination meeting. Determine whether each contract is on time, ahead of schedule, or behind schedule, in relation to Combined Contractor's Construction Schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are 'required to ensure that current and subsequent activities will be completed within the Contract Time.
 - b. Schedule Updating: Revise Combined Contractor's Construction Schedule after each coordination meeting where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with report of each meeting.
 - c. Review present and future needs of each contractor present, including the following:
 - 1) Interface requirements.
 - 2) Sequence of operations.
 - 3) Deliveries.
 - 4) Access.
 - 5) Site utilization.
 - 6) Temporary facilities and controls.
 - 7) Work hours.
 - 8) Hazards and risks.
 - 9) Progress cleaning.
 - 10) Quality and work standards.
 - 11) Change Orders.
3. Reporting: Record meeting results and distribute copies to everyone in attendance and to others affected by decisions or actions resulting from each meeting.

1.7 REQUESTS FOR INFORMATION (RFIs)

- A. Procedure: Immediately on discovery of the need for interpretation of the Contract Documents, and if not possible to request interpretation at Project meeting, prepare and submit an RFI, to the Architect, in the form specified.
 1. RFIs shall originate with Contractor or Subcontractor. RFIs submitted by entities other than the Contractor will be returned with no response.
 2. Coordinate and submit RFIs in a prompt manner so as to avoid delays in Contractor's work or work of subcontractors.
- B. Content of the RFI: Include a detailed, legible description of item needing interpretation and the following:
 1. Project name.
 2. Date.
 3. Name of Contractor.
 4. Name of Architect.
 5. RFI number, numbered sequentially.

6. Specification Section number and title and related paragraphs, as appropriate.
 7. Drawing number and detail references, as appropriate.
 8. Field dimensions and conditions, as appropriate.
 9. Contractor's suggested solution(s). If Contractor's solution(s) impact the Contract Time or the Contract sum, Contractor shall state impact in the RFI.
 10. Contractor's signature.
 11. Attachments: Include drawings, descriptions, measurements, photos, Product Data, Shop Drawings, and other information necessary to fully describe items needing interpretation.
 - a. Supplementary drawings prepared by Contractor shall include dimensions, thicknesses, structural grid references, and details of affected materials, assemblies, and attachments.
- C. Hard-Copy RFIs:
1. Identify each page of attachments with the RFI number and sequential page number.
- D. Software-Generated RFIs: Software-generated form with substantially the same content as indicated above.
1. Attachments shall be electronic files in Adobe Acrobat PDF format.
- E. Architect's Action: Architect will review each RFI, determine action required, and return it. Allow five working days for Architect's response for each RFI. RFIs received after 1:00 p.m. will be considered as received the following working day.
1. The following RFIs will be returned without action:
 - a. Requests for approval of submittals.
 - b. Requests for approval of substitutions.
 - c. Requests for coordination information already indicated in the Contract Documents.
 - d. Requests for adjustments in the Contract Time or the Contract Sum.
 - e. Requests for interpretation of Architect's actions on submittals.
 - f. Incomplete RFIs or RFIs with numerous errors.
 2. Architect's action may include a request for additional information, in which case Architect's time for response will start again.
 3. Architect's action on RFIs that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit Change Proposal according to Division 01 Section "Contract Modification Procedures."
 - a. If Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, notify Architect in writing within 10 days of receipt of the RFI response.
- F. On receipt of Architect's action, update the RFI log and immediately distribute the RFI response to affected parties. Review response and notify Architect within five days if Contractor disagrees with response.
- G. RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the RFI number. Submit log biweekly. Include the following:

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1. Project name.
2. Name and address of Contractor.
3. Name and address of Architect.
4. RFI number including RFIs that were dropped and not submitted.
5. RFI description.
6. Date the RFI was submitted.
7. Date Architect's response was received.
8. Identification of related Minor Change in the Work, Construction Change Directive, and Proposal Request, as appropriate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

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SUBMITTAL PROCEDURES

SECTION 01 33 00

1.1 SCOPE

The following submittals will be required of all construction materials and systems:

- A. List of materials stating manufacturer's name and address, as well as material trade name and manufacturer's designation.
- B. Shop Drawings.
- C. Samples.
- D. Catalog Data.
- E. Manufacturer's Instructions.
- F. Sheet Metal Mock-ups
- G. Construction Photographs
- H. Contractor's Schedule as it affects the contracted completion date and sequence of construction.
- I. Material Safety Data Sheets (MSDS).

1.2 TIME OF SUBMITTALS

The following submittals are required during the various phases of the Contract. Each submittal item shall have the technical section and paragraph number clearly indicated. All submittal items without the proper designations will be returned and will not be reviewed.

- A. Bid Submission: shall include three (3) copies of the following information and submittals:
 - 1. List of Materials and Manufacturers. Include system designations and manufacturer's literature, and a sample of manufacturer's warranties.
 - 2. Construction Schedule showing the sequence of construction, starting date, completion date and monthly status checklist.
 - 3. Letter of compliance from the selected roof membrane manufacturer that all materials proposed for the new roof systems, including but not limited to roof insulation's, flashing assemblies and fasteners, are acceptable for the roof membrane manufacturer's standard warranty listed in Section 01 11 00.
- B. Contract Submissions: After the successful Bidder has received the Notice to Proceed or Letter of Intent to Enter the Contract, the Bidder shall, within ten (10) working days, provide four (4) copies of the following submittals to the Engineer:

SUBMITTAL PROCEDURES

1. Complete Materials List.
 2. Manufacturer's Technical Literature as selected.
 3. Manufacturer's Instructions.
 4. Catalog Data ("SPEC-DATA" Sheets).
 5. Material Safety Data Sheets (MSDS).
 6. Samples of all materials including caulking, sealers, fasteners and sheet metal.
 7. Shop Drawings.
 8. Construction Schedule as submitted during bid stage, updated if necessary.
 9. List of proposed storage facilities and their location(s).
 10. Certificates as approved Applicator by Manufacturers.
 11. Proposed location(s) of dumpsters.
 12. Schedule of Values; broken down by labor and materials for each trade and including unit price items.
 13. List of all suppliers, manufacturers and sub-Contractor who are to provide services and or materials for this project (to be updated with each requisition).
 14. Certificate of Dumping Facilities.
 15. Disposal Plan.
 16. Temporary protection plan and containment plan.
- C. Prior to start of construction, the Contractor is to provide the Owner with copies of all building, fire and dumping permits, etc.

1.3 SHOP DRAWINGS

- A. Original Submittal: One (1) reproducible copy and three (3) prints of all shop drawings shall be submitted for approval within five (5) days of Award of Contract.
- B. Shop drawings for all aspects of this project shall be submitted. The shop drawings shall include existing conditions, all applicable dimensions, new products to be installed, locations, etc. Shop drawings shall be project specific.
- C. Resubmittal: When a resubmittal is required, the original transparency so indicating will be returned to the Contractor. After revision of the original, one (1) new reproducible and one (1) print shall be submitted for review.
- D. Review: The above procedure shall be repeated until approval is obtained. The original reproducible copy of the reviewed shop drawing will be returned to the Contractor, at which time the Contractor shall make prints in sufficient numbers for the Engineer (four copies), as well as sufficient copies for his use.
- E. Shop drawings of an engineering nature shall be sent directly to the Engineer for review, with a copy of the transmittal and one (1) print sent to the Owner.
- F. Transmittal: All re-producibles shall be transmitted rolled in mailing tubes and not folded.

1.4 RECORD DRAWINGS

The Contractor shall provide a copy of all Contract Drawings showing as-built conditions and any Contract changes to the Owner at the completion of the project.

1.5 PHOTOGRAPHS

The Contractor shall submit periodic photographs documenting the before, during and after construction work throughout the project, in JGP format as described in the Bi-Weekly Submissions paragraph previously described in this section. Project photographs for the entire project will be submitted to the Engineer at the end of the project as part of the final close-out documents.

1.6 SAMPLES

- A. Original Submittal: Four (4) samples, unless otherwise specified, of each item for which samples are required shall be furnished for approval. Approval shall be obtained prior to ordering and delivery of the materials to the project site. Such samples shall be representative of the actual material proposed for use in the project and of sufficient size to demonstrate design, color, texture and finish when these attributes will be exposed to view in the finished work.
- B. Resubmittal: All rejected samples will be returned upon request, and any or all resubmittals shall consist of four (4) new samples.
- C. Review: Upon approval by the Engineer, one sample so noted will be returned and the remainder will be retained by the Engineer until completion of the work. When requested, all approved samples will be returned for installation, provided their identity is maintained in an approved manner until final acceptance of the project.
- D. Important specific samples are specified in Technical Sections of the Specifications. The Contractor is cautioned to quickly provide specified samples.
- E. Each submittal item shall have the technical section and paragraph number clearly indicated. All submittal items without the proper designations will be returned and will not be reviewed.

1.7 CATALOG DATA

- A. Submittals: Four (4) copies of catalog data are required for the original submittal and each subsequent resubmittal along with shop drawings. Following review, one (1) copy will be returned with its status noted. If approved, such additional copies may be requested by the Engineer and shall be furnished without additional cost.
- B. Data: Each submittal shall have all pertinent data contained therein that is applicable to the item submitted for review, adequately and permanently designated.

1.8 MANUFACTURER'S INSTRUCTIONS

- A. Where in these Specifications an item is called for to be installed in accordance with the manufacturer's directions, requirements, specifications or recommendations, the Contractor shall furnish the Engineer with two (2) printed copies of said directions, requirements, specifications or recommendations, before the item is installed.

1.9 CERTIFICATES AND GUARANTEES

- A. Certificates of performance, treatment and conformance to specified standards shall be submitted prior to initiating work on the project.
- B. Copies of all guarantees required on the project shall be submitted for review and acceptance as to form.

1.10 IDENTIFICATION

- A. Data: All submittals for review shall have the following identification data, as applicable, contained thereon or permanently adhered thereto:
1. Project name and location.
 2. Engineer's name.
 3. Subcontractor's, Vendor's and/or Manufacturer's name and address.
 4. Product Identification. (It is important that the specific product intended for use is indicated on manufacturer's literature).
 5. Shop drawing title, drawing number, revision number and date of drawing and revision.
 6. Applicable Contract Drawings and Specification Section numbers.
- B. Catalog Data: Each separate catalog, brochure or single page submitted shall have the identification required hereinbefore.
1. Catalogs or brochures submitted containing multiple items for approval need the identification on the exterior and on each specific item clearly circled, flagged or otherwise identified.
 2. In the event that one or more of the multiple items are not approved in any submittal, the additional copies required will not be requested until all items are approved.
- C. Space: Vacant space approximately three and one-half inches high by five inches wide shall be provided adjacent to the identification data to receive the Engineer's status stamp.

1.11 CONTRACTOR'S RESPONSIBILITY

- A. Representation: By his submittal of any shop drawing or catalog data, the Contractor thereby represents that he has determined and verified all field measurements, field construction criteria, materials, dimensions, catalog numbers and similar data, or will do so, and that he has checked and coordinated each item with other applicable approved shop drawings and the Contract requirements. Certification shall appear

on each shop drawing stating that the Contractor has made this check. All drawings without this certification will be returned without examination.

- B. Deviations: Changes on the submitted shop drawings that deviate from the Design Drawings must be brought to the Owners and Designers attention in writing prior to review. Changes must be clearly visible on the shop drawings in the form of written notation, ballooning or highlighting the intended change. A written description for the proposed change must also be included and submitted on company letterhead. Changes to drawings and details not submitted in accordance with these requirements will not be recognized as an approved deviation from the Design of Record. Construction repairs, renovations or replacements required as a result of shop drawing and submittal deviations that are not documented in accordance with these requirements are subject to removal and/or replacement by the Contractor, at the sole cost of the Contractor.
- C. Prohibitions: No portion of the work requiring a shop drawing, sample or catalog data shall be started, nor shall any materials be fabricated or installed, prior to the approval of such item.
- D. Review: Project work, materials, fabrication and installation shall conform with approved shop drawings, applicable samples and catalog data.
- E. Processing Time: Allow enough time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Designer's receipt of submittal.
 - 1. Initial Review: Allow **10** calendar days for initial review of each submittal. Allow additional time if processing must be delayed to permit coordination with subsequent submittals. The Engineer will advise the Contractor when a submittal being processed must be delayed for coordination.
 - 2. Concurrent Review: Where concurrent review of submittals by the Engineer's consultants, or other parties is required, allow **10** calendar days for initial review of each submittal.
 - 3. Direct Transmittal to Consultant: Where the Contract Documents indicate that submittals may be transmitted directly to Engineer's consultants, provide duplicate copy of the transmittal to the Engineer. The submittal will be returned to Engineer before being returned to Contractor.
 - 4. If intermediate submittal is necessary, process it in same manner as initial submittal.
 - 5. Allow **10** calendar days for processing each re-submittal.
 - 6. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing.

END OF SECTION

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TEMPORARY FACILITIES AND CONTROLS

SECTION 01 50 00

PART 1 – GENERAL

1.1 STORAGE FACILITIES

See Section 01 63 00, Weather Protection and Materials Storage.

1.2 SANITARY FACILITIES

Sanitary facilities shall be provided as required by local and state statute. They are to be provided by the General Contractor and located at Owner approved locations.

1.3 BARRIERS

- A. The General Contractor shall install temporary fencing, warning lines, barriers and the like, as required, to segregate the construction areas from existing facilities, occupants and the public.
- B. All Contractors are required to conform to OSHA requirements and all local, state and federal safety regulations.
- C. The General Contractor shall provide guard lights on all barriers and all lighting necessary to prevent vandalism of work and storage areas. The Owner is not responsible for General Contractor's losses due to damage or theft by vandals.

1.4 PORTABLE LIFTS

- A. Portable lifts and machinery required for the proper and expeditious prosecution and progress of the work shall be furnished, installed, operated, and maintained in a safe condition by the General Contractor. All costs for portable lift services shall be borne by the General Contractor.

1.5 UTILITIES

- A. Electrical service will be provided to the Contractors free of charge by the Owner through electrical outlets if operable. Use shall be limited to construction hours. The Owner reserves the right to charge the General Contractor for excessive electrical service usage (i.e., wasteful usage). Should charges be considered, the Owner will notify the General Contractor in writing of his intent, 48 hours in advance. Should the General Contractor require greater electrical service than is provided by existing service the General Contractor will provide generators at no additional cost to the Owner. Water for construction purposes will be provided to the Contractors free of charge by the Owner through exterior water spigots if operable. The Owner reserves the right to charge the Contractors for excessive or wasteful use. Should charges be considered, the Owner will notify the General Contractor in writing of his intent, 48 hours in advance. Drinking water shall be provided by the General Contractor.

- B. All other utilities required will be provided by the General Contractor.
- C. Plumbing, heating, and electrical work, including reinstallation of equipment and other work to be performed by the General Contractor, shall be carried out without interference to the building's normal operation. Where work requires interruption of service, the General Contractor shall make advance arrangements with the Owner for dealing with such interruption.
- D. Electrical disconnection, extension, shortening, and/or reconnection shall be performed by the Owner. Contractor to notify the Owner 48-hours minimum prior to working in areas that will require temporary disconnection.

1.6 RUBBISH

- A. The General Contractor shall supply adequate covered receptacles for waste, debris and rubbish for their use and for the use of their sub-contractors.
- B. All receptacles must be immediately removed from the site when full. Should, for any reason, receptacle removal not be possible on any given day, the General Contractor shall move the receptacle away from the building to an area on site designated by the Owner. All receptacles will be tarped over at the end of each work day.
- C. The grounds in the area of the receptacle must be cleaned prior to moving the receptacle to another location on the project. Disposal shall be off-site in a legal dump intended for that use.
- D. The receptacles shall be located in areas designated by the Owner. Receptacles shall not remain adjacent to the building overnight.

1.7 CLEAN-UP

- A. Site clean-up shall be complete and to the satisfaction of the Owner. Site clean-up shall be performed daily.
- B. All building (interior and exterior), landscape and parking areas shall be cleaned of all trash, debris, and dirt caused by or associated with the work.
- C. All landscape areas damaged or littered due to the work shall be raked clean and reseeded if required.
- D. All paved areas shall be swept clean of debris daily.
- E. All areas stained, dirtied, discolored or otherwise damaged due to the work shall be cleaned, restored or replaced as required.

END OF SECTION

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WEATHER PROTECTION AND MATERIALS STORAGE

SECTION 01 63 00

PART 1 – GENERAL

1.1 GENERAL

- A. The General Contractor shall take the necessary precautions and provide all equipment, materials and labor necessary to adequately protect the Contract Area, previous construction, the buildings, their contents and occupants, surrounding landscaped and paved areas from damage due to the construction or inclement weather during construction.
- B. No storage on or within the building will be allowed without prior authorization from the Owner and Engineer.
- C. The General Contractor shall provide all access to the work. Staging and other access shall be provided until new work has been accepted by the Owner.
- D. Refer to the “Roofing Superintendent’s Workbook” by the National Roofing Contractors Association and the Brick Industry Association (BIA) manual for additional information.

1.2 WEATHER PROTECTION

- A. Weather protection shall mean the temporary protection of that work adversely affected by moisture, wind, heat and cold by covering, patching, sealing, enclosing, ventilating, cooling and/or heating. This protection shall be provided for all work areas, the buildings and their contents, trafficked adjacent areas, and all construction materials and accessories.
- B. The cost of heat, fuel and power necessary for proper weather protection shall be the responsibility of the General Contractor.
- C. Installation of weather protection shall comply with all safety regulations, including provisions for adequate ventilation and fire protection devices.

1.3 FIRE PROTECTION

- A. The General Contractor shall provide all necessary temporary fire protection for the buildings, building contents and materials during construction. The General Contractor shall provide incombustible protective blankets where necessary to protect surfaces or building contents from damage.
- B. At no time shall any combustibles be stored inside the building. All adhesives, caulks and cleaning solvents shall be stored well away from the building in a method approved by local fire officials.

- C. Should any cutting, burning or welding be necessary, the General Contractor shall provide a fire watch. This watch will continue during the operations and for four hours minimum after completion.
- D. At no time shall open flames be present around adhesives, caulks or cleaning solvents as they will readily ignite. Rags soaked with cleaning solvents shall not be discarded in the dumpsters but shall be stored in a metal receptacle and removed from the site daily.
- E. The General Contractor shall be required to comply with all local fire codes and shall obtain all permits necessary from the local fire department and provide one (1) copy to the Engineer.
- F. The General Contractor shall provide recently tested, fully charged fire extinguishers around the storage area, rubbish receptacle and two (2) within 100 feet of the work area or as specifically required by the Fire Department.

1.4 MATERIAL STORAGE

- A. All materials shall be stored in trailers on site or brought to the site daily. Storage trailers will be allowed in the location(s) designated by the Owner. All flammable substances cannot be stored on the roof or in the building and must be brought to the site daily. Limited non-flammable material storage may be allowed on the roof with prior written approval by the Owner or Engineer.
- B. All labor, equipment and materials on the Roof Areas shall not exceed 30 pounds per square foot maximum.
- C. In the event that materials are exposed to the elements, they shall be marked as unacceptable and immediately removed from the site. They may not be used.
- D. The General Contractor will be required to provide additional tarps or canvas covers over any materials that may be stored with the Owner's permission at the site. The General Contractor will not be permitted to rely on the manufacturer's shrink wrap material as the sole source of weather protection. These covers are to be adequately ballasted and secured to prevent wind uplift.
- E. Protect all existing and new wood stored on site to prevent moisture absorption. Use tarps over the wood pile (top, sides and bottom) elevated on pallets (one side lower to shed water).

1.5 NOTIFICATION

- A. If, during the Contract period, the General Contractor is notified of insufficient weather protection, he shall, within 24 hours, properly restore the weather protection and repair or replace any damaged unprotected materials and systems.

- B. Should the General Contractor not effect immediate repair or replacement when notified, the Owner shall have the proper protection installed at the General Contractor's expense. The General Contractor is responsible for all damages to the building as a result of leaks.

1.6 MANUFACTURER'S INFORMATION

- A. The manufacturers of all the materials shall supply written instructions concerning the storage and handling of all supplied materials, including sealants, and accessories. The manufacturer shall also provide information concerning storage and handling of flammable or volatile materials.
- B. Storage facilities shall be acceptable to the manufacturer and conform to his written requirements concerning temperature, humidity, ventilation and the like.
- C. The "shelf-life" of materials shall be provided with the date of manufacture of all perishables, including volatiles, caulking and mastics.
- D. The General Contractor shall supply a copy of all manufacturer's written instructions to the Owner and Engineer as outlined in Section 01 30 00 - Shop Drawings and Submittals. The General Contractor shall comply with all storage and handling requests and instructions of the manufacturer.

END OF SECTION

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PROJECT CLOSE-OUT

SECTION 01 70 00

When the project is established to be substantially complete, preparations will be made to close out the project. The preparations are as follows:

PART 1 - PUNCH LIST

- A. After the project is determined to be substantially complete, a representative of the Owner will tour the project and compile a "punch list" of minor unsatisfactory conditions. A copy of this list will be sent to the General Contractor and he shall then correct the unsatisfactory conditions. When all items on the list have been corrected, the General Contractor shall notify the Owner's representative and a re-inspection will be made by that representative.
- B. Minor "punch list" items shall be only those items which have been installed and are functional, requiring cosmetic repair or cleaning which do not affect the integrity of the system. Any work specified within the Contract Documents which has not been performed or has been performed in a non-conforming manner to the Contract Documents shall not be defined as minor "punch list" items and must be performed or corrected as appropriate in order to achieve substantial completion.
- C. Should additional reinspections be required due to punch list items which are reported to be complete but are not completed or improperly completed, the costs of these reinspections will be assessed to the General Contractor.

PART 2 - MANUFACTURER'S INSPECTION

- A. After the reinspection by the Owner's representative, the material manufacturer's representative, if applicable, will be required to tour the site. The representative shall determine if the materials have been installed as required by the manufacturer.
- B. Any items the representatives determine were not so installed shall be reinstalled so as to comply with the manufacturer's intended use. The manufacturer shall forward a copy of the list of all items determined to be not installed as intended by the manufacturer to the Engineer. Final issuance of the General Contractor's payment will not be released until the manufacturer's inspection letter has been forwarded to the Engineer.
- C. Costs associated with all manufacturer inspections shall be the responsibility of the General Contractor.

PART 3 - GUARANTEES

- A. When both the Owner's representative and the manufacturer's representative agree that the General Contractor has performed according to the Specifications and has installed the materials to the satisfaction of the manufacturer, the General Contractor shall petition the manufacturer for the materials warranty. The Contractor's Guarantee shall be signed by the Contractor. He shall forward this guarantee to the Owner and provide one (1) copy for the Engineer.

- B. The General Contractor will be required to provide lien releases for his work. The General Contractor shall then forward his guarantee covering the construction to the Owner and provide one (1) copy for the Engineer.

PART 4 - RETAINAGE RELEASE

When all guarantees, certifications and requested lien releases have been received, the Owner shall release to the General Contractor the project retainage and any other monies retained by the Owner to guarantee project completion.

PART 5 - DOCUMENTS REQUIRED FROM THE CONTRACTOR PRIOR TO FINAL PAYMENT

Documents will be submitted to the Engineer in triplicate, each set in individual binders for submission to the Town of Bourne. These items include, but are not limited to, the following:

- A. All applicable manufacturer's warranties.
- B. Contractor's two (2) year guarantee.
- C. Executed Punch List Inspection letter.
- D. Consent of Surety Company to Final Payment.
- E. Contractor's Affidavit of Release of Liens.
- F. Contractor's Affidavit of Payment of Debts and Claims.
- G. Final Application and Certificate for Payment.
- H. Completed waste shipment records and dumping manifests.
- I. As Built Drawings.
- J. Other documents which may be specifically required by the Town of Bourne, or the Engineer.

END OF SECTION

SECTION 02 41 19

SELECTIVE BUILDING DEMOLITION

PART 1 - GENERAL

1.1 IN GENERAL

- A. Attention is directed to the CONTRACT AND GENERAL CONDITIONS and all Sections within DIVISION 01 - GENERAL REQUIREMENTS, which are hereby made a part of this Section of the Specifications.

1.2 RELATED WORK SPECIFIED ELSEWHERE

- A. Section 051200 – Structural Steel
- B. Section 076200 – Sheet Metal Flashing
- C. Section 261000 – Temporary Mechanical/Electrical Disconnects

1.3 DESCRIPTION OF WORK

- A. In general, the Contractor shall supply all labor, materials, equipment, temporary protection, tools, and appliances necessary for the proper completion of the work in this Section, as required in the Specifications and in accordance with good construction practice. The work under this Section generally includes the following:
- B. Coordinate this work with all other trades to provide orderly progress of work.
- C. Remove and dispose of existing designated wood shingles, wood sideboard, miscellaneous flashing, current garage door, and other materials as required to complete the work.
- D. Remove and reinstall the existing HSS 4x4 post per the Contract Drawings.
- E. Remove the existing “Bourne Fire Department Station 4” sign and relocate at the Town of Bourne’s option.
- F. The Contractor shall disconnect and make safe all wall-mounted electrical equipment as required to perform the work as indicated in Section 261000 – Temporary Mechanical/Electrical Disconnects. The Contractor shall hire a licensed Electrical Contractor to perform this work. All wall mounted items are to be removed, stored, and reinstalled after the work is completed.
- G. Provide temporary enclosures and waterproofing to protect the building interior from weather.
- H. Salvage existing items to be reused or recycled.
- I. Refer to the Execution in this Section for specific items.

- J. Refer to the other technical sections for trade-specific removal.
- K. Clean and restore all areas impacted by the work.

1.4 DEFINITIONS

- A. Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and reinstalled.
- B. Remove and Salvage: Detach items from existing construction and deliver them to Owner.
- C. Remove and Reinstall/Relocate: Detach items from existing construction, prepare them for reuse, and reinstall them where indicated.
- D. Existing to Remain: Existing items of construction that are not to be removed and that are not otherwise indicated to be removed, removed, and salvaged, or removed and reinstalled.

1.5 SPECIAL JOB CONDITIONS

- A. The Contractor shall submit a detailed sequence schedule for the roof area prior to the start of work and shall coordinate daily schedules with the Owner.
- B. The building will continue to operate during construction. The Contractor shall take all necessary precautions to create as little disturbance or disruption to the building and their occupants as possible during the course of the work. Areas nearby the immediate work area must be kept clear at all times and accessible by all parties. All access for emergency equipment must be kept clear at all times.

1.6 JOB CONDITIONS

- A. Schedule and execute all work without exposing the interior building areas to inclement weather. Protect the existing building and its contents against all risks, and repair or replace all damage to the Owner's satisfaction at no additional cost.
- B. The Contractor shall utilize skilled and experienced specialty workers to install the work. Experienced trade workers shall be utilized for all aspects of the work.
- C. The Contractor shall provide all protection, barriers and guards necessary to segregate their work area, and the areas nearby, from pedestrian and vehicular traffic. Also protect existing equipment, landscaping, and paved areas from damage.
- D. Notify the Designer of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- E. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.

- F. Maintain fire-protection facilities in service during selective demolition operations.

1.7 QUALITY ASSURANCE

- A. Demolition Firm Qualifications: An experienced firm that has specialized in demolition work similar in material and extent to that indicated for this Project.
- B. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- C. Standards: Comply with ANSI A10.6 and NFPA 241.
- D. Predemolition Conference: Conduct conference at Project site with the Designer and Owner.

1.8 SUBMITTALS

- A. Submittals shall be made in accordance with the General Conditions and Section 013300 – Submittal Requirements.
- B. Provide a project-specific safety plan and Job Hazard Analysis.
- C. Schedule of Selective Demolition Activities: Indicate detailed sequence of selective demolition and removal work, with starting and ending dates for each activity and interruption of utility services.
- D. Predemolition Photographs: Show existing conditions of adjoining construction and site improvements, including finish surfaces that might be misconstrued as damage caused by selective demolition operations. Submit before Work begins.
- E. Landfill Records: Indicate receipt and acceptance of hazardous wastes by a landfill facility licensed to accept hazardous wastes as applicable.

1.9 DIMENSIONS AND QUANTITIES

- A. All dimensions and quantities shall be determined or verified by the Contractor. The Contract Drawings have been compiled from various sources and may not reflect the actual conditions at the moment of construction. The Contractor is cautioned to take all precautions and make all investigations necessary to install the proposed work. The Owner will not consider unfamiliarity with the job conditions as a basis for additional compensation.

1.10 GUARANTEE

- A. Upon completion of the work and prior to final payment, the Contractor shall submit a guarantee of his work as free from defect in materials and workmanship. The guarantee shall be for a period of two (2) years. The guarantee shall be signed by an officer of the Contractor's firm and sealed if a corporation.

1.11 WARRANTY

- A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective demolition, by methods and with materials so as not to void existing warranties.

1.12 CLEAN-UP

- A. Site clean-up shall be complete and performed daily to the satisfaction of the Owner.
- B. All trash and debris shall be completely removed from the site daily during the work and at the completion of the work. All debris shall be legally disposed of off-site.
- C. Prior to acceptance of the work, the Contractor shall perform a thorough clean-up of the work site, building surfaces, landscaping, etc. Any items damaged shall be repaired or replaced to the satisfaction of and at no additional cost to Owner.
- D. Return adjacent areas to condition existing before selective demolition operations began.
- E. Repair damage to building by replacing damaged material or component in-kind.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that utilities have been disconnected and capped as required to safely perform the work.
- B. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
- C. Inventory and record the condition of items to be removed and reinstalled and items to be removed and salvaged.
- D. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to the Designer.
- E. Engage a professional engineer licensed in the State of Massachusetts to survey the condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of the structure or adjacent structures during selective demolition operations prior to removal of any element.

- F. Survey of Existing Conditions: Document existing conditions with preconstruction photographs. Forward to the Designer for record prior to commencing work.
- G. Perform surveys as the Work progresses to detect hazards resulting from selective demolition activities.

3.2 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

- A. Existing Services/Systems: Maintain services/systems indicated to remain and protect them against damage during selective demolition operations.
- B. Service/System Requirements: Locate, identify, disconnect, and seal or cap off indicated utility services and mechanical/electrical systems serving areas to be selectively demolished.
 - 1. Arrange to shut off indicated utilities with utility companies. Provide the Owner with sufficient notice prior to shutoff.
 - 2. If services/systems are required to be removed, relocated, or abandoned, before proceeding with selective demolition provide temporary services/systems that bypass area of selective demolition and maintain continuity of services/systems to other parts of building.
- C. Temporarily disconnect, remove, and store existing wall-mounted electrical equipment. Provide electrical extensions as required to extend the equipment to the new exterior wall face.

3.3 PREPARATION

- A. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, interior spaces, and other adjacent occupied and used facilities.
 - 1. Comply with requirements for access and protection specified in Section 015000 – Temporary Facilities and Site Management and Section 016300 – Weather Protection and Materials Storage.
- B. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to the building and facilities to remain.
- C. Temporary Shoring: Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.

3.4 SELECTIVE DEMOLITION

- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated in the Contract Documents. Use methods required to complete the Work within limitations of governing regulations and as follows:

1. Do not leave the interior of the building exposed at any time. The building interior at envelope removal locations shall be completely protected during demolition operations.
 2. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering, and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
 3. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
 4. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.
 5. Dispose of demolished items and materials promptly.
 6. Items to be removed and disposed of include, but may not be limited to, the following:
 - a. Existing garage door and associated flashings
 - b. Existing wood frame wall
 - c. Existing sideboard
 - d. Existing wood shingles and associated flashings
- B. Removed and Salvaged Items:
1. Clean salvaged items.
 2. Pack or crate items after cleaning. Identify contents of containers.
 3. Store items in a secure area until delivery to Owner.
 4. Transport items to storage area designated by Owner.
 5. Protect items from damage during transport and storage.
- C. Removed and Reinstalled Items:
1. Pack or crate items after cleaning and repairing. Identify contents of containers.
 2. Protect items from damage during transport and storage.
 3. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.
- D. Existing Items to Remain:
1. Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by the Owner, items may be removed to a suitable, protected storage location during selective demolition and cleaned and reinstalled in their original locations after selective demolition operations are complete.

3.5 DISPOSAL OF DEMOLISHED MATERIALS

- A. General: Except for items or materials indicated to be recycled, reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, remove demolished materials from the project site and legally dispose of them in an EPA-approved landfill.

Burning: Do not burn demolished materials.

3.6 HOT WORKS PROCEDURES

- A. All hot work including cutting, welding, brazing, etc. shall require a permit from the local fire department. The cost of any required fire watch required as condition of the permit shall be the responsibility of the Contractor. The cost of any fire department paid details is the responsibility of the Contractor.
- B. The Contractor shall confirm that all persons engaged in hot work operations on the work site have completed a Hot Work Safety Certificate. Certificate shall be provided by the National Fire Protection Association (NFPA), or equivalent certificate or course completion as determined and approved by the Head of the local fire department.
- C. Fully charged, inspected and approved fire extinguishers shall be on site at all times. No cutting, grinding or welding of any kind shall proceed without an approved fully charged fire extinguisher.
- D. Personnel with suitable fire extinguishing equipment, experience, and training shall be stationed near welding and cutting operations to prevent the sparks from lodging in floor cracks or passing through floor or wall openings and from lodging in combustible materials.
- E. Make sure construction in the area is non-combustible including insulation.
- F. Remove combustible contents or cover with FM approved blankets or pads.
- G. Follow procedures outlined under FM Global Resources 'Don't Get Burned by Hot Work' and 'Hot Work Permit Form – F2360 and comply with NFPA 51B Fire Prevention During Welding, Cutting, and Other Hot Work.

END OF SECTION

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Monument Beach Fire Station 4 Door at
14 Thomas Philbrick Road
Bourne, MA
Gale JN 841010

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SECTION 05 12 00

STRUCTURAL STEEL

PART 1 - GENERAL

1.1 GENERAL PROVISIONS

- A. Attention is directed to the CONTRACT AND GENERAL CONDITIONS and all Sections within DIVISION 01 – GENERAL REQUIREMENTS, which are hereby made a part of this Section of the Specifications.

1.2 RELATED WORK SPECIFIED ELSEWHERE

- A. Section 024119 – Selective Demolition

1.3 SCOPE OF WORK

In general, the Contractor shall supply all labor, equipment, staging, temporary protection, tools and appliances necessary for the proper completion of the work in this section. Coordinate the work with adjacent repairs.

- A. Coordinate work within this Section with all other associated trades to perform work in an orderly fashion and to minimize temporary supports and weather protection.
- B. Supply all shoring, hydraulic jack equipment and accessories, and protection necessary to protect the building areas and building systems.
- C. Report to Engineer if any deteriorated existing steel beams or columns are encountered during field examination prior to commencing the Work.
- D. Fabricate and install new HSS shapes, cap plates, angles, and anchor bolts where indicated on the Contract Drawings.
- E. Connect the HSS post extension to the existing HSS post as shown on the Contract Drawings.
- F. Connect the new HSS beam to the existing HSS posts and W10 beam as shown on the Contract Drawings.
- G. Clean and restore all areas affected by the work.

1.4 JOB CONDITIONS

- A. Equipment required to hoist materials and remove debris shall be supplied. Maintained, and operated by the Contractor.

- B. Remove rubbish and debris from the project site daily; do not allow accumulations inside or outside the buildings.
- C. The Contractor shall be responsible for securing and protecting their equipment, materials, and tools (as well as partially completed construction) from weather, vandalism or abuse.
- D. The building will be operating during construction. Provide and maintain all shoring, bracing, supports, barriers, protection, warning lines, lighting and personnel required to support the structure, fixtures and facilities affected by this work and segregate the work area(s) to prevent damage to the building, occupants and the surrounding paved areas. Items damaged as a result of the work in this section shall be repaired or replaced by the Contractor to the satisfaction of and at no additional cost to the Owner.
- E. The Contractor shall field verify and identify all existing electrical and mechanical equipment within the affected work area prior to start of work. Temporary protection and supports are to be provided for all electrical, plumbing lines, fire sprinkler, mechanical conduits and equipment, and any other building utility within the affected work area. The Contractor shall remove, protect, store, and replace, as required, existing removed equipment, components, etc. in order to install the work.
- F. The Contractor will be responsible for coordinating all disconnects/relocations/reconnects associated with the installation of the new steel, as it is required to perform the work.
- G. The Contractor shall utilize skilled and experienced specialty workers to install the work. Experienced trade workers shall be utilized for all aspects of the work.
- H. Coordinate the work in this section with the work by other trades to ensure the orderly progress of the work.
- I. Fully charged, inspected and approved fire extinguishers shall be on site at all times. No cutting, grinding or welding of any kind shall proceed without an approved fully charged fire extinguisher.

1.5 BUILDING PROTECTION

- A. The existing building systems shall be totally protected during the renovation work. The Contractor is responsible for the prompt repair of any damage to the building systems resulting from the work at the project at no additional cost to the Owner.
- B. Install any additional protection over all flooring, equipment, windows, mechanical equipment, conduits, doors, wall penetrations, etc. during the work as required.

1.6 REFERENCES

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.
- B. AISC Specification for the Design, Fabrication and Erection of Structural Steel for Buildings, (AISC Specifications)
 - AISC 360-10 Specification for Structural Steel Buildings
 - AISC 326-09 Detailing for Steel Construction
 - AISC 303-10 Code of Standard Practice for Steel Buildings and Bridges
- C. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
 - ASTM A36 Standard Specification for Carbon Structural Steel
 - ASTM A325 Standard Specification for Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength
 - ASTM F436 Standard Specification for Hardened Steel Washers
 - ASTM F844 Standard Specification for Washers, Steel, Plain (Flat), Unhardened for General Use
- D. AMERICAN WELDING SOCIETY (AWS)
 - AWS A2.4 Standard Symbols for Welding, Brazing and Nondestructive Examination
 - AWS D1.1 Structural Welding Code - Steel
- E. STEEL STRUCTURES PAINTING COUNCIL (SSPC)
 - SSPC-Paint 25 Zinc Oxide, Alkyd, Linseed Oil Primer for Use Over Hand Cleaned Steel

1.7 SUBMITTALS

- A. Submittals shall be made in accordance with the General Conditions and Section 013300, Submittal Requirements.
- B. The following shall be submitted:
 - 1. Drawings: Shop and erection details including members (with their connections) not shown on the Contract Drawings. Welds shall be indicated by standard welding symbols in accordance with AWS A2.4.
 - 2. Statements: Erection plan of the structural steel beams required. Erection plan shall conform to the requirements of AISC 303, shall be submitted prior to erection, and shall describe all necessary temporary supports, including the sequence of installation and removal.
 - 3. Certificates: Certified copies of mill test reports for structural steel, structural bolts, nuts, washers and other related structural steel items.

4. Certified copies of welder qualifications test records showing qualification in accordance with AWS D1.1.
5. A copy of the AISC certificate indicating that the fabrication plant meets the specified structural steelwork category.
6. Samples: Random samples of bolts, nuts, and washers as delivered to the job site if requested, taken in the presence of the Owner's representative and provided to the Owner's representative for testing to establish compliance with specified requirements.

1.8 DIMENSIONS AND QUANTITIES

- A. All dimensions and quantities shall be determined or verified by the Contractor. The Contract Drawings have been compiled from various sources and may not reflect the actual condition at the moment of construction. The Contractor is cautioned to take all precautions and make all investigations necessary to install the proposed work. The Owner will not consider unfamiliarity with the job conditions as a basis for additional compensation.

1.9 QUALITY ASSURANCE

- A. Structural steel fabrication and erection shall be performed by an organization experienced in structural steel work of equivalent magnitude.
- B. The Contractor shall be responsible for correctness of detailing, fabrication, and for the correct fitting of structural members. Connections, for any part of the structure not shown on the Contract Drawings, shall be considered simple shear connections and shall be designed and detailed in accordance with pertinent provisions of AISC. Substitution of sections or modification of connection details will not be accepted unless approved by the Engineer. Welding shall be in accordance with AWS D1.1.

1.10 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Material shall be stored out of contact with the ground in such manner and location as will minimize deterioration.

1.11 WARRANTY

- A. Upon completion of the work, and prior to final payment, the Contractor shall submit a Warranty of his work to be free from defect in materials and workmanship. This Warranty shall be for a period of two (2) years and shall be signed by a Principal of the Contractor's firm and sealed if a corporation.

1.12 CLEAN-UP

- A. Site cleanup shall be complete and performed daily to the satisfaction of the Owner.
- B. All trash and debris shall be completely removed from the site daily during the work and at completion of the work. All debris shall be legally disposed of off-site.

- C. Upon completion of the work of this section, all building areas shall be cleaned of all trash, debris and dirt caused by, or associated with, the work.

PART 2 - MATERIALS

2.1 STEEL

- A. Structural Steel, Hollow Structural Sections: ASTM A1085
- B. Structural Steel, Plates: ASTM A36.
- C. Structural Steel, Angles: ASTM A36.
- D. Electrodes for Welding: Comply with AWS Code. E70 series unless otherwise noted.
- E. All new steel members to be shop primed and field painted as required.

2.2 BOLTS

- A. ½" dia to 1" dia, UN: fy = 92,000 psi, ASTM A325.

2.3 PAINT AND ACCESSORIES

- A. Manufacturers' Names (Exterior Steel Coatings):
 - 1. Tnemec Company, Incorporated (Zinc 95).
 - 2. Rust-Oleum Industrial Coatings
 - 3. Sherwin-Williams Co. (Sherwin-Williams).
 - 4. or approved equal.
- B. Material Compatibility: Provide block fillers, primers, and finish-coat materials that are compatible with one another and with the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.
- C. Material Quality: Provide manufacturer's best-quality paint material of the various coating types specified that are factory formulated and recommended by manufacturer for application indicated. Paint-material containers not displaying manufacturer's product identification will not be acceptable.
- D. Colors: Coordinate with other Sections where color matching is required. Match existing or adjacent materials as indicated, or as selected by the Owner from the Manufacturer's full range of colors.

PART 3 - EXECUTION

3.1 FABRICATION

- A. Shop Fabrication and Assembly: Fabricate and assemble structural assemblies in shop to greatest extent possible. Fabricate items of structural steel in accordance with AISC Specifications and as indicated on final shop drawings.
- B. Properly mark and match-mark materials for field assembly. Fabricate for delivery sequence which will expedite erection and minimize field handling of materials.
- C. Where finishing is required, complete assembly, including welding of units, before start of finishing operations. Provide finish surfaces of members exposed in final structure free of markings, burrs and other defects.
- D. Bolt field connections, except where welded connections or other connections are indicated on the drawings.
- E. Welded Construction: Comply with AWS Code for procedures, appearance and quality of welds, and methods used in correcting welding work.
- F. Cut, drill or punch holes perpendicular to metal surfaces. Do not flame-cut holes or enlarge holes by burning.

3.2 SHOP PAINTING

- A. General: Shop paint structural steel. Paint embedded steel which is partially exposed on exposed portions and initial 2-inches of embedded areas only.
 - 1. Do not paint surfaces which are to be welded.
 - 2. Apply two (2) coats of paint to surfaces which are inaccessible after assembly or erection. Change color of second coat to distinguish it from first.
- B. Surface Preparation: After inspection and before shipping, clean steel-work to be painted. Remove loose rust, loose mill scale, and spatter, slag or flux deposits. Clean steel in accordance with the latest edition of Steel Structures Painting Council (SSPC) as follows:
 - 1. SP-3 Surface Preparation Specification No. 3 "Power Tool Cleaning" - for primed or unpainted steel.
- C. Painting: Immediately after surface preparation, apply structural steel primer paint in accordance with manufacturer's instructions and at a rate to provide dry film thickness of not less than 1.5 mils. Use painting methods which result in full coverage joints, corners, edges and exposed surfaces.
- D. Any new steel members being installed shall be painted to match the adjacent finish color of the existing steel framing.

3.3 ERECTION

- A. Erection of structural steel shall be in accordance with the applicable provisions of AISC.
- B. Temporary Shoring and Bracing: Provide temporary shoring and bracing members with connections of sufficient strength to bear imposed loads. Remove temporary members and connections when permanent members are in place and final connections are made. Provide temporary guy lines to achieve proper alignment of structures as erection proceeds.
- C. Field Assembly: Set structural frames accurately to lines and elevations indicated. Align and adjust various members forming part of complete frame or structure before permanently fastening. Clean bearing surfaces and other surfaces which will be in permanent contact before assembly. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.
- D. Level and plumb individual members of structure within specified AISC tolerances.
- E. All personnel shall be currently certified for the welding which they perform.
- F. Do not enlarge un-aligned holes in members by burning or by use of drift pins. Ream holes that must be enlarged to admit bolts.
- G. Gas Cutting: Do not use gas cutting torches in field for correcting fabrication errors in primary structural framing. Cutting will be permitted only on as indicated on the Contract Drawings and, as acceptable to Engineer. Finish gas-cut sections equal to a sheared appearance when permitted.
- H. Touch-Up Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint. Apply paint to exposed areas using same material as used for shop painting. Apply by brush or spray to provide minimum dry film thickness of 1.5 mils.

3.4 QUALITY CONTROL

- A. Any material or workmanship which is rejected by the Engineer shall be replaced promptly to the satisfaction of the Engineer.
- B. Corrective Work:
 - 1. Structural steel members or assemblages having fabrication errors, exceed permissible tolerances, or which inspections or laboratory test reports have indicated to be not in compliance with specifications, shall not be allowed in the finished work. Such members or assemblages may be corrected if permitted by the Engineer or the testing agency.
 - 2. Perform additional test, at Contractor's expense, as may be necessary to reconfirm any non-compliance of original work, and as may be necessary to show compliance of corrected work.

3. Corrective work is to be done preferably in the shop, and in accordance with AISC and AWS requirements. When requested by the Engineer, submit shop drawings, "for approval", showing details of proposed corrective work.
- C. Welding: The Owner will engage an independent testing agency to inspect and test during fabrication and erection of structural steel assemblies, as follows:
 1. Certify welders and conduct inspections and tests as required. Record types and locations of defects found in work. Record work required and performed to correct deficiencies.
 2. Perform visual inspection of welds.
 3. Continuous visual inspection shall be required on all full penetration welds. Perform tests of full penetration welds as follows. Inspection procedures listed are to be used at Owner's option. Twenty-five percent of all field welded moment connections shall be tested.
 - a. Liquid Penetrant Inspection: ASTM E165.
 - b. Magnetic Particle Inspection: ASTM E109; performed on root pass and on finished weld. Cracks or zones of incomplete fusion or penetration not acceptable.
 - c. Radiographic Inspection: ASTM E94 and ASTM E142; minimum quality level "2-2T".
 - d. Ultrasonic Inspection: ASTM E164.

3.5 PROTECTING AND CLEANING

- A. Clean adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.
- B. Refer to close-out procedures described in Division 01 of these Specifications for additional information.

END OF SECTION

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SECTION 07 62 00

SHEET METAL FLASHING

PART 1 - GENERAL

1.1 GENERAL PROVISIONS

- A. Attention is directed to the CONTRACT AND GENERAL CONDITIONS and all Sections within DIVISION 01 - GENERAL REQUIREMENTS, which are hereby made a part of this Section of the Specifications.

1.2 RELATED WORK SPECIFIED ELSEWHERE

- A. Section 024119 – Selective Building Demolition
- B. Section 051200 – Structural Steel
- C. Section 261000 – Temporary Mechanical/Electrical Disconnects

1.3 DESCRIPTION OF WORK

- A. In general, the Contractor shall supply all labor, materials, equipment, access, temporary protection, tools, and appliances necessary for the proper completion of the work in this Section, as required in the Specifications, in accordance with SMACNA and NRCA manuals and good construction practice, and as required by the materials manufacturer, as amended. The work under this Section generally includes the following:
 - 1. Coordinate with the work of all trades to provide orderly progress of work.
 - 2. Provide all necessary underlayment, miscellaneous flashing, attachment clips, and closure members to ensure a weathertight installation.
 - 3. Install new sheet metal flashings and trim as shown on the Contract Drawings, and as required to properly terminate the membrane.
 - 4. Clean and restore all areas impacted by the work.

1.4 SPECIAL JOB CONDITIONS

- A. Building occupants are highly sensitive to fumes, odors, noise, and disturbances. The Contractor shall submit a detailed sequence schedule for the work area prior to the start of work and shall coordinate daily schedules with the Owner.
- B. The building will be operating during construction. The Contractors shall take all necessary precautions to create as little disturbance or disruption to the building and their occupants as possible during the course of the work. All areas near the immediate work area must be kept clear at all times and accessible by all parties. All access for emergency equipment must be kept clear at all times.

1.5 JOB CONDITIONS

- A. Schedule and execute all work without exposing the interior building areas to inclement weather. Protect the existing building and its contents against all risks, and repair or replace all damage to the Owner's satisfaction at no additional cost.
- B. The Contractor shall utilize skilled and experienced specialty workers to install the work. Experienced trade workers shall be utilized for all aspects of the work.
- C. The building shall be occupied during construction. The Contractor shall provide all protection, barriers, and guards necessary to segregate their work area from pedestrian and vehicular traffic. Also protect existing equipment, landscaping, and paved areas from damage.
- D. Materials shall be provided and maintained on the site at all times for temporary flashing and other protection when delays and/or changed weather conditions do not permit completion of each unit of work prior to the end of each working day. Materials which have been used for temporary flashing and other protection shall be removed and discarded.
- E. Materials shall be delivered in manufacturer's unopened bundles and containers with the manufacturer's brand and name marked clearly thereon. Materials shall be protected from damage. Coiled goods shall be stored on end in an upright position. Sheet goods shall be covered and elevated on pallets or blocking to protect from ground moisture.
- F. All surfaces to receive new dampproofing and flashings shall be thoroughly dry. Should surface moisture such as dew exist, the Contractor shall provide the necessary equipment to dry the surface prior to application.
- G. Provide protection as required to assure that completed work of this Section will be without damage or deterioration at the time of substantial completion.

1.6 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

- A. Copper and Common Sense by Revere Copper Products, Inc.
- B. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- C. Industry Standard: Except as otherwise shown or specified, comply with applicable recommendations and details of "Copper in Architecture Handbook" by Copper Development Association (CDA). Conform to dimensions and profiles shown.
- D. Sheet Metal & Air conditioning Contractors National Association (SMACNA).

- E. National Roofing Contractors Association (NRCA).
- F. Factory Mutual Global (FMG) data sheet FM1-49.
- G. Military Specification MIL-S-6872B, "General Specifications for Soldering Process."

1.7 QUALITY ASSURANCE

- A. Installer: Company specializing in the type of work required for this project, with not less than ten (10) years of documented experience.
- B. Regulatory Requirement: All local building code requirements are to be followed for both design and installation of the new overhead coiling door system and flashing.
- C. Pre-Installation Meeting: Convene meeting not less than one (1) week prior to beginning installation.

1.8 SUBMITTALS

- A. Submittals shall be made in accordance with the General Conditions and Section 013300 – Submittal Requirements.
- B. All sheet metal perimeter flashings shall meet the intent of Factory Mutual, be in conformance with all local and state building codes and be accepted by the manufacturer to maintain the existing warranty.
- C. Submit sheet metal manufacturer's color charts or chips for initial color selection by the Owner and submit samples for Owner's review and approval of color, style, and profile.

1.9 DIMENSIONS AND QUANTITIES

- A. All dimensions and quantities shall be determined or verified by the Contractor. The Contract Drawings have been compiled from various sources and may not reflect the actual condition at the moment of construction. The Contractor is cautioned to take all precautions and make all investigations necessary to install the proposed work. The Owner will not consider unfamiliarity with the job conditions as a basis for additional compensation.

1.10 GUARANTEES

- A. Upon completion of the work and prior to final payment, the Contractor shall submit a guarantee of their work as free from defect in materials and workmanship. The guarantee shall be for a period of two (2) years. The guarantee shall be signed by an officer of the Contractor's firm and sealed if a corporation.

1.11 WARRANTIES

Upon completion of the work and prior to final payment, the following warranties shall be provided:

- A. Manufacturer's Finish Warranty – Twenty (20) years for aluminum sheets.

1.12 CLEAN-UP

- A. Site clean-up shall be complete and performed daily to the satisfaction of the Owner.
- B. All nearby areas shall be cleaned of all trash, debris, and dirt caused by, or associated with, the work.
- C. All trash and debris shall be completely removed from the site daily during the work and at the completion of the work. All debris shall be legally disposed of off-site.
- D. Prior to acceptance of the work, the Contractor shall perform a thorough clean-up of the work site, building surfaces, landscaping, etc. Any items damaged shall be repaired or replaced to the satisfaction of and at no additional cost to the Owner.

PART 2 - PRODUCTS

2.1 SHEET METAL FLASINGS, PREFORMED FLASHINGS, AND ACCESSORIES

- A. Aluminum shall be 0.032", 0.040", and 0.050" thick painted aluminum as shown on the Contract Drawings, or Designer approved equal. Color(s) to be selected by the Owner. Aluminum shall have a mill finish for concealed items. Aluminum shall be 3003 alloy, H-14 temper.
- B. Tin-Zinc alloy coated copper shall be cold rolled sheet copper conforming to ASTM B-101-78, 16 oz., and 20 oz. Tin-Zinc coating shall be applied by hot dip process to achieve a coating approximately 0.5 mils thick. Sheet length shall be 8' maximum.
- C. Shop fabricated edge metal shall be certified by the manufacturer to meet performance design criteria according to the following test standards:
 - 1. ANSI/SPRI ES-1 Test Method RE-2 Pull-Off Test for Fascia: The fascia system shall be tested in accordance with the ANSI/SPRI ES-1 Test Method RE-2. Use the current edition of ANSI/SPRI ES-1 Wind Design Standard for Edge Systems Used with Low Slope Roofing Systems.
 - 2. The fascia product shall be listed in current FM Approval Guide.
- D. All accessories, including but not limited to nails, screws and clips shall be stainless steel or galvanized steel and completely compatible with the surrounding metal to prevent galvanic reaction. Galvanizing shall be per ASTM A153-09.

- E. Termination bars shall be 1/8" x 1" copper, stainless steel, or aluminum bar (as required to prevent galvanic action with the flashings being secured) with pre-punched holes at six inches (6") on center, or as required by the membrane manufacturer.
- F. Rivets shall be 3/16" diameter copper or stainless steel, as required by the metal being secured.
- G. Sealant(s) for use with sheet metal flashings shall be single component polyurethane sealant Type S, Grade NS, Class 50, Use A/O, non-sag, non-staining.
- H. Sheet metal flashings shall be shop fabricated. All breaks, bends, and hems shall be uniform, clean, straight lines.
 - 1. All aluminum joints shall be adequately overlapped, backsealed, and riveted.
 - 2. Flanges shall be four inches (4") wide minimum.
 - 3. Inside and outside corners shall be four inches (4") wide minimum.
 - 4. Drip edges shall be hemmed 3/4" wide and break at a 30° angle.
 - 5. Clips shall be two inches (2") wide.
 - 6. All flanges to be covered with flashing membranes shall have a 1/4" minimum hem on the edge.
 - 7. All sheet metal joints shall have six inches (6") wide cover and backer plates.
 - 8. Fascia reveals shall not exceed eight inches (8"). Fascia requiring a greater vertical face than eight inches (8") shall be fabricated as a multiple piece system with each face of equal exposure and no greater than eight inches (8").
- I. Fabrication Schedule

Note, some flashing components have been listed under multiple metal fabrications type and thicknesses. The Contractor shall coordinate the use of compatible metals to prevent galvanic corrosion and coordinate painted finish components at visible locations.

- 1. 0.032" Thick Coated Aluminum
 - a. Cover Plates
 - b. Backer Plates
 - c. Counter Flashings
 - d. Base Flashings
- 2. 0.040" Thick Coated Aluminum
 - a. Sill Pan Flashing
 - b. Door Flashings
 - c. Edge Metal
- 3. 0.050" Thick Coated Aluminum
 - a. Clips
- 4. 0.050" Thick Mill or Painted Finished Aluminum

a. Continuous Hook Strips

2.2 SHEET METAL ACCESSORIES

- A. Mastic for back-sealing sheet metal against non-metal substrates shall be as recommended by the underlayment manufacturer. Concealed sealant for back-sealing metal-to-metal connections shall be single-component, butyl (polyisobutylene) rubber sealant, heavy bodied for joints with limited movement.
- B. Red Rosin paper (separation layer) shall be 5-pound kraft paper.

2.3 SHEET METAL FASTENERS

- A. In general, fasteners, straps and other hardware shall be copper, brass, stainless steel or hot-dip galvanized steel. Galvanizing shall be per ASTM A 153 specifications. Electro-galvanizing will not be accepted.
- B. Fasteners for securement of flashings and hook strips to concrete and masonry shall be 1/4" diameter hammer drive anchors with zinc sheaths and flat heads such as Zamac Nailins by Rawl, Star Fasteners, Unifast, or approved equal. Anchors shall be of sufficient length to penetrate the substrate 1-1/4" minimum.
- C. Sheet metal to wood blocking connections and mechanical unit securement (exposed securement): Self-drilling, self-tapping, Number 10, stainless steel hex-head screws, 1-1/2-inch long, equipped with metal capped EPDM washers.
- D. Nails for flashing securement at wood substrates shall be No. 12 Stubbs gauge, large head, threaded shank, copper, or galvanized steel nails minimum 1" long.
- E. Fasteners for securing metal furring shall be stainless steel.

PART 3 - EXECUTION

3.1 GENERAL

- A. Form and fabricate sheets, seams, strips, cleats, integral flashings, and other components of the sheet metal flashings to profiles and patterns shown and as required for permanently leak-proof construction configurations.
- B. Comply with Military Specification MIL-S-6872B entitled, "General Specifications for Soldering Process" when forming soldered joint. Use conduction soldering methods. Areas to be joined shall be cleaned of all oil, grease, pencil marks, paint, dirt or other foreign substances. Remove all burrs using files, grinding stones or other methods. Hold parts in place using clamps, jigs and supports or by self-fixturing. If parts are tack-soldered to hold them in place, the area of tack-soldering shall be reworked into the final soldering. Parts cannot move during the soldering process.

- C. Separate dissimilar metals by painting each metal surface in area of contact with a bituminous coating, by applying rubberized asphalt underlayment to each metal surface, or by other permanent separation as recommended by Manufacturer's or dissimilar metals.

3.2 EXAMINATION

- A. Installer shall examine all substrates on which metal flashings and accessories are to be applied.
- B. If surfaces are not suitable for application of metal flashings, installer shall notify the Designer in writing.
- C. Installation shall not proceed until surface is acceptable to all parties.
- D. Installer must field verify all necessary dimensions prior to fabrication of materials.

3.3 ADJUSTING AND CLEANING

- A. Sweep and remove chips, shavings and dust from existing or new surfaces on a daily basis during the installation period. Leave installed work clean, free from grease, finger marks, and stains. Remove all protective masking from material immediately after installation of product.
- B. Upon completion of installation, remove scraps and debris from the project site.

3.4 SHEET METAL FLASHINGS

- A. All sheet metal sections that are to rest over modified bitumen membranes shall be separated by a slip sheet if the product does not have a polyethylene sheet surfacing.
- B. It is the intent of this Specification to utilize the most effective joint configuration possible to properly install strong, weathertight metal flashings. Comply with the following standards unless otherwise specified when fabricating metal components to be joined:
 - 1. Prefabricate corners of edge metal, counterflashings in one-piece sections with minimum lengths of eighteen inches (18") in each dimension from the corner whenever possible.
 - 2. Seams and joints of non-solderable metals shall be interlocked, riveted, and completely filled with sealant.
 - 3. Whenever one-piece construction is not possible, solderable metals shall utilize interlocked, crimped, and fully soldered seams and joints.
 - 4. Provide sheet metal closure components at transitions to rising walls and similar changes in plane for edge metal, and other termination flashings. Fully crimp and seal closures to continuous blind nailed cleats.

- C. Apply flux to surfaces that are to receive solder. Do not use flux-colored solder. Flux shall be fluid when heated and effective in removing and excluding oxides and other impurities from the joint. The molten solder should readily displace flux.
- D. Heat areas to be joined above the liquidous temperature of the solder. To deliver maximum heat, apply the copper bit of the soldering iron at the right angle so that the flat side of the iron's bit provides maximum contact area. Apply solder to the joint and not the bit of the iron. Allow solder to flow in place to provide a minimum one inch (1") final width of solder over the joint. Do not disturb the joint until it has been allowed to completely cool. After soldering, completely remove flux and acid by washing and scrubbing with a neutralizing agent.
- E. Shop-fabricate sheet metal flashings to the fullest extent possible. Fabricate all breaks, bends, and hems with uniform, clean, straight lines.
- F. Sheet metal flashings shall be as specified herein and as required to match the existing sheet metal systems. Refer to the publication, "Copper and Common Sense" by Revere Copper and Brass and all recommendations of the Sheet Metal and Air Conditioning Contractors National Association (SMACNA) concerning methods and materials to be used in the fabrication and construction of sheet metal flashings.
- G. It is the intent of this Specification to have as little soldering of copper as is practical in order to properly install strong, watertight metal flashings. Joints shall be interlocked and crimped where possible. All corners shall be soldered to provide strength and a waterproof connection.

3.5 COUNTERFLASHINGS

- A. Fabricate new counterflashing and receivers to the dimensions and shapes shown in the Contract Drawings, and as specified herein.
- B. Secure counterflashings with clips where indicated. Fabricate and secure clips as previously specified.

3.6 CONTINUOUS CLEATS AND HOOK STRIPS

- A. Form continuous cleats/hook strips with 3/4-inch kicks, bent out at a 30° angle to the face or wall. Height of continuous cleats/hook strips shall be as indicated on the Contract Drawings.
- B. Secure continuous cleats/hook strips to wood blocking with the specified fasteners spaced at six inches on center (6" o.c.).
- C. Provide 1/8-inch butt joints between hook strip sections.

3.7 COVER PLATES

- A. Fabricate cover and backer plates eight inches (8") wide, with four inch (4") wide deck flanges, as indicated. Hem edges of cover plates to fit snug against edge metal and fascia sections.
- B. Prime metal and install a 6-inch-wide strip of self-adhering flashing centered on the 1/8-inch-wide edge metal joint.
- C. Install cover and backer plates over and underneath (respectively) the edge metal and set in beads of sealant plates centered over self-adhering flashing strip and joints.
- D. Secure edge metal cover plate flanges with five (5) fasteners driven into the flanges and crimped to edge metal drip.
- E. Hook fascia cover plates to drip edge and secure flanges to wood blocking with five fasteners per cover plate flange.

3.8 EDGE METALS

- A. Should the new pre-formed metal edge not provide a minimum of 1-1/2" coverage over the transition, a two-piece flashing system, of equal dimension, shall be installed around the perimeter of the overhead coiling door hood to provide a uniform height. Hook strips shall be secured at 3-inches on center, staggered about the center line. Backer plates shall be installed between each seam. The fascia metal shall extend a minimum of two inches below the metal.

3.9 EDGE FASCIA AND METAL

- A. Fabricate edge fascia assemblies, including cover plates, as indicated in the Contract Drawings.
- B. Secure fascia cleat/ hook strip as previously specified. Hook fascia onto cleat and provide 1/8-inch butt joints between metal sections.
- C. Center cover plates over fascia metal section joints, install self-adhering membrane flashing, and install fascia cover plates as previously specified.
- D. Secure bottom of fascia with continuous cleat as indicated.
- E. Where indicated, provide sheet metal closures on bottom of fascia.

3.10 SECUREMENT CLIPS

- A. Secure clips to substrate with the specified fasteners at minimum six inches on center (6" o.c.), or as indicated on the Contract Drawings.

Monument Beach Fire Station 4 Door at
14 Thomas Philbrick Road
Bourne, MA
Gale JN 841010

- B. Bend clips a minimum of one inch (1") over bottom drip edge of flashing and crimp tightly.

END OF SECTION

i:\841010\02 design\specs\841010 monument beach fire station 4 door - 076200- sheet metal flashing.docx

SECTION 26 10 00

TEMPORARY MECHANICAL-ELECTRICAL DISCONNECTS

PART 1 - GENERAL

1.1 GENERAL PROVISIONS

- A. Attention is directed to the CONTRACT AND GENERAL CONDITIONS and all Sections within DIVISION 01 - GENERAL REQUIREMENTS, which are hereby made a part of this Section of the Specifications.

1.2 RELATED WORK SPECIFIED ELSEWHERE

- A. Section 024100 – Selective Demolition
- B. Section 051200 – Structural Steel
- C. Section 076200 – Sheet Metal Flashing

1.3 DESCRIPTION OF WORK

- A. In general, the Contractor shall supply all labor, materials, equipment, temporary protection, tools and appliances necessary for the proper completion of the work in this Section, as required in the Specifications and in accordance with good construction practice. The work under this Section generally includes the following:
 - 1. Provide all temporary protection, lifts, manpower, and equipment to protect the building and its components.
 - 2. Temporarily disconnect, remove, or support of existing electrical equipment. Equipment shall be re-installed and reconnected after installation of new overhead coiling door. Provide electrical extensions as required to extend the equipment to its new location.
 - 3. The Contractor shall coordinate the required electrical shutdown(s) of the designated equipment with the Owner where the existing equipment requires relocating or temporary removal to perform the work and reinstallation, where indicated on the Contract Drawings.
 - 4. Coordinate the work in this section with the appropriate trades to ensure the proper work sequence.

1.4 SPECIAL JOB CONDITIONS

- A. Building occupants are highly sensitive to fumes, odors, noise, and disturbances. The Contractor shall submit a detailed sequence schedule for the work area prior to the start of work and shall coordinate daily schedules with the Owner.
- B. The building and site will be occupied and in use during construction. The Contractors shall take all necessary precautions to create as little disturbance or disruption to the building and their occupants as possible during the course of the

work. All areas near the immediate work area must be kept clear at all times and accessible by all parties. All access for emergency equipment must be kept clear at all times.

1.5 JOB CONDITIONS

- A. Schedule and execute all work without exposing the building interiors to inclement weather. Protect the building and its contents from staining and damages. Segregate all work areas from the building occupants.
- B. Notify the Owner at least two (2) weeks in advance of doing any interior demolition work so that the Owner may remove any portable items, such as furniture, from the area. Fixed items will not be removed and are to be protected by the Contractor.
- C. The Contractor shall be responsible for shutting down, removal, temporary support/shoring, proper reinstallation with ductwork and electrical extensions as required, and turning on of each mechanical unit by the end of the workday as it relates to the removal and reinstallation of the mechanical equipment. If the mechanical unit is found operational prior to the shutdown procedures and does not operate upon completion of the work and restarting the equipment, the Contractor will be responsible for repairing/replacing said unit at no additional cost to the Owner.
- D. The Contractor is cautioned to take all necessary precautions and make all investigations necessary to install the work. The Owner will not consider unfamiliarity with the job conditions as a basis for additional compensation.
- E. The Contractor shall provide a minimum of two (2) weeks' notice prior to shutting down any mechanical or electrical services.

1.6 SUBMITTALS

- A. The Contractor shall submit project literature and samples for the items listed in this section in accordance with Section 013300 – Submittal Requirements.
- B. Submit proposed lead times of materials and coordination efforts associated with replacement of units.
- C. Submit proposed temporary shoring details and methods of re-attachment.

1.7 WARRANTY

- A. Upon completion of the work, and prior to final payment, the Contractor shall submit a Guarantee of his work to be free from defect in materials and workmanship. This Guarantee shall be for a period of two (2) years and shall be signed by a Principal of the Contractor's firm and sealed if a corporation.

PART 2 - PRODUCTS

2.1 FASTENERS AND ACCESSORIES

- A. In general, fasteners shall be stainless steel. All accessories, including, but not limited to nails, screws, clips, fastening strips, etc. shall be completely compatible with the material being fastened to prevent galvanic reaction and premature deterioration.

PART 3 - EXECUTION

3.1 GENERAL

- A. All work in this Section shall be coordinated with structural steel and door replacement work.
- B. The Contractor is cautioned to investigate all existing conditions and materials of construction.
- C. Follow all applicable local, state, and federal requirements regarding construction of scaffolding and protection of the public safety for the work items included in this section. Specific reference should be made to OSHA Construction Safety Regulations. Provide warning lines, barricades, and similar items as required to restrict pedestrian access to hazardous areas. Job site safety shall be the Contractor's responsibility.

3.2 DISCONNECTION AND RECONNECTION OF ELECTRICAL EQUIPMENT

- A. Contractor shall coordinate with building Owner prior to any work that is to be performed.
- B. The following is the scope of work required where the existing electrical conduit, or electrical equipment located on the interior side of the wall to be demolished or adjacent surfaces must be disconnected, removed, and reconnected.
 - 1. Prior to disconnecting any equipment, the contractor shall test the equipment to ensure they are functioning properly and report any problems to the owner.
 - 2. The Contractor shall coordinate all interruptions of power to existing equipment with the Owner prior to any work. Note, the Owner does not have the technical support to perform renovations at the site, and therefore, all renovations, including the interruption and reconnecting of the power, will be borne by the Contractor.
 - 3. The Contractor shall ensure that the power to existing equipment is turned off. The Contractor shall use lockout / tag-out procedures to ensure that the power is not turned on.

4. The Contractor shall temporarily disconnect, remove, and support the existing electrical equipment and wiring and reconnect the same, as required by job condition, after installation of the new overhead coiling door.
5. The Contractor shall turn power back on to the equipment after work has been completed by all other trades.
6. The Contractor shall extend electrical wiring as needed to accommodate the new locations of the equipment.
7. After the existing equipment has been reconnected, the Contractor shall test the equipment to ensure they are functioning properly and report any problems to the Owner.

3.3 REINSTALLATION OF EQUIPMENT

- A. Contractor shall coordinate with building Owner prior to any work performed on the mechanical units.
- B. Extend electrical conduits and wiring as required due to altered locations on the fire station wall.

3.4 CLEAN-UP

- A. All floors, walls, and adjacent areas, both interior and exterior, damaged by the installation of the work specified within this specification shall be repaired and cleaned of all dust, debris and any other materials to the Owner's satisfaction.
- B. The Contractor shall not demobilize the site until the completed work is toured by the Owner and Designer. Any unsatisfactory items observed will be reported in "punch-list" form. These items shall be corrected immediately by the Contractor prior to demobilization from the job site. Final payment will not be made until all punch list items are complete and guarantees have been received.
- C. All scaffolding, barriers, temporary facilities and the like shall be removed upon completion of the work. Areas damaged as a result of the Contractors equipment shall be restored to their original condition, all to the satisfaction of the Owner.
- D. Refer to the Close-Out Procedures described in Division One for additional information.

END OF SECTION

DOOR EXPANSION AT
MONUMENT BEACH FIRE STATION 4

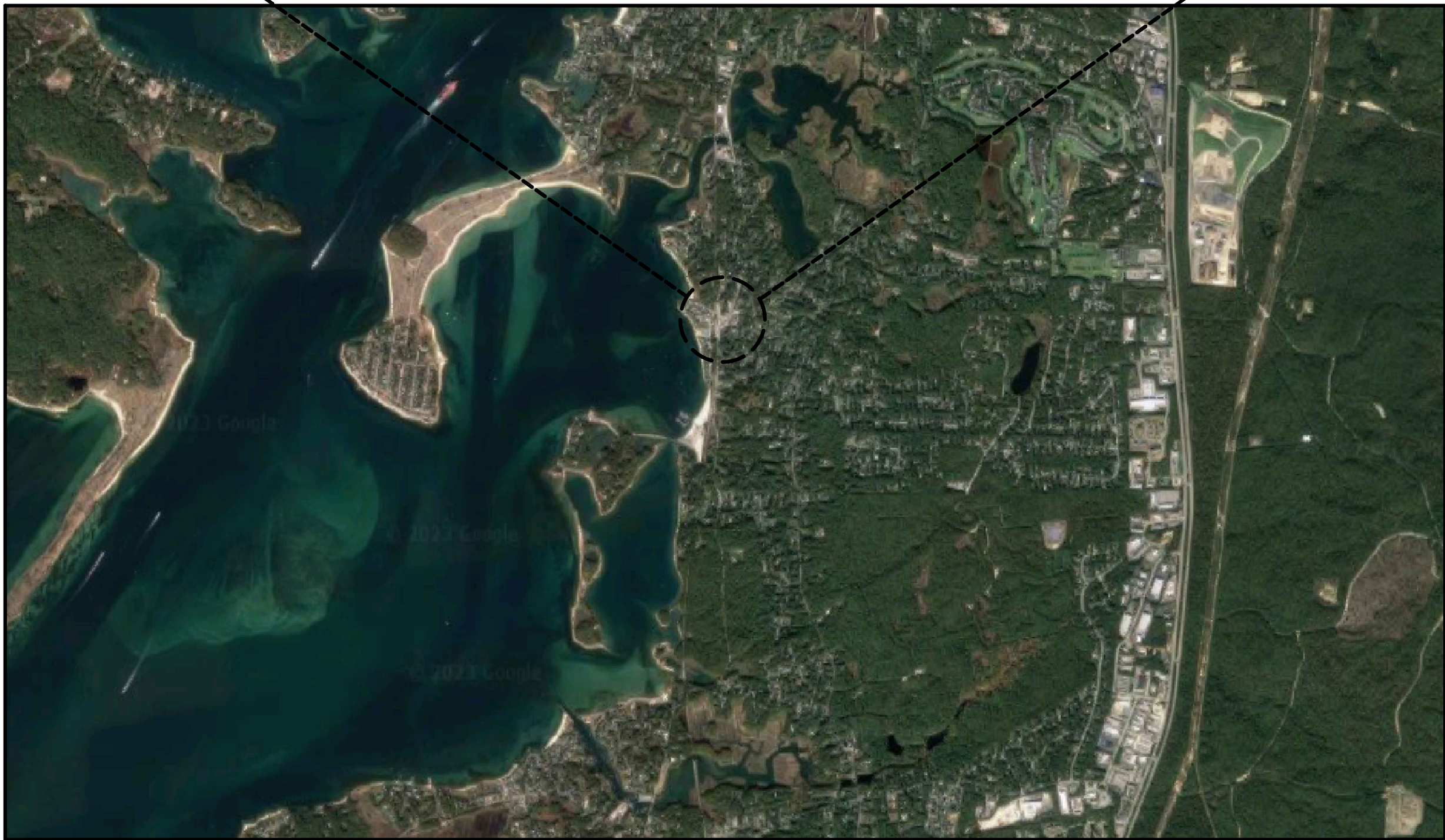
14 THOMAS PHILBRICK ROAD,
BOURNE, MASSACHUSETTS 02532

PREPARED FOR
TOWN OF BOURNE
29 PERRY AVE,
BOURNE, MASSACHUSETTS 02532

DRAWING NO	TITLE
G100	COVER SHEET
S001	STRUCTURAL NOTES
S101	STRUCTURAL FRAMING PLAN
S501	STRUCTURAL DETAILS



SITE MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE



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BID DOCUMENTS

PROJECT MONUMENT BEACH FIRE STATION 4 DOOR 14 THOMAS PHILBRICK ROAD, BOURNE, MA 02532	OWNER TOWN OF BOURNE 29 PERRY AVENUE BOURNE, MA 02532

NO.	DATE	DESCRIPTION	BY
PROJECT NO.		841010	
CADD FILE		841010 G100	
DESIGNED BY		AMV/KMCON	
DRAWN BY		MCC/KMC	
CHECKED BY		AEO	
DATE		2/15/2023	
DRAWING SCALE		NOT TO SCALE	

GRAPHIC SCALE

SHEET TITLE

COVER SHEET

DRAWING NO.

G100



TOWN OF BOURNE
GENERAL CONDITIONS

1.0 GENERAL PROVISIONS

1.1 Definitions.

1.1.1 Awarding Authority. Where the term “Awarding Authority” appears in any statutory provision, it shall mean “the Owner.”

1.1.2 Contracting Officer. The term “Contracting Officer” shall mean the town official so designated below, or the individual duly appointed by him for the performance of any of his functions or responsibilities under this Contract. The Work shall be carried out under the direction and subject to the approval and acceptance of the **Town of Bourne** (hereinafter called the Contracting Officer).

1.2 Scope of the Work. The Work comprises the completed project described in the Contract Documents and includes all labor, professional services, transportation, tools, materials, supplies, equipment, permits, approvals, documents, calculations, submittals, and certificates necessary to develop, perform, construct and complete the project in accordance with all applicable laws, ordinances, and regulations, and in accordance with the Contract Documents.

1.3 Interpretation. The Plans and Specifications and other Contract Documents are to be considered together and are intended to be mutually complementary, so that any work shown on the Plans though not specified in the Specifications, and any work specified in the Specifications though not shown on the Plans, is part of the Work to be performed by the Contractor.

1.4 Written Authorization. Actions taken, and approvals and decisions made by the Owner under this Contract require the prior approval and signature of the Contracting Officer. These include, but are not limited to, the following: changes in the Contract Price, time for completion, or any other provision of this Contract; written orders, notices, and approvals given by the Contracting Officer pursuant to the Contract Documents or pursuant to any laws applicable to this Contract, including approval of “or equal” submissions; issuance of stop work orders; approval of Contractor’s applications for payment; and termination of the Contract. Work undertaken by the Contractor not authorized by the Contracting Officer’s signature prior to the start of such work shall be considered unauthorized work and shall not entitle the Contractor to any extra payment. The Contractor shall perform, at its own expense, corrective measures required by the Owner due to any failure to obtain prior approval for any item of work.

1.5 Contractor's General Duties. The Contractor shall perform the Work in a competent manner in accordance with the Contract Documents and all applicable

laws. The Contractor shall be solely responsible for, and have control over, construction means, methods, techniques, sequences and procedures, and coordination of all portions of the Work under this Contract. The Contractor shall provide and perform for the Contract Price all of the duties and obligations set forth in the Contract Documents. Except as otherwise specified in this Contract, it is not the Contractor's responsibility to ascertain that the Contract Documents are in accordance with applicable Laws. However, if the Contractor observes that portions of the Contract Documents are at variance with legal requirements, the Contractor shall promptly notify the Owner of that fact in writing. If the Contractor performs Work knowing it to be contrary to legal requirements, the Contractor shall be liable for all damages caused thereby, including the cost of correcting the Work.

- 1.6 Sales Tax Exemption and Other Taxes.** To the extent that materials and supplies are used or incorporated in the performance of this Contract, the Contractor is considered an exempt purchaser under the Massachusetts Sales Act, Chapter 14 of the Acts of 1966. The Contractor shall pay all taxes and tariffs of any sort related to the Work, subject to the applicable exemptions.
- 1.7 Permits, Fees and Notices.** The Contractor shall secure and pay for all permits and governmental fees, licenses, and inspections necessary for proper execution and completion of the Work. The Contractor shall coordinate all efforts required to obtain these permits unless otherwise directed in writing by the Owner. The Contractor shall comply with and give notices required by laws, ordinances, rules, regulations, codes, and lawful orders of public authorities bearing on the performance of the Work.
- 1.7 Safety Requirements.** The Contractor shall comply with all Federal, State, and local safety laws and regulations applicable to the Work.
- 1.8 Minimum Wage Rates.** The Contractor shall comply with M.G.L. c. 149, §§ 26- 27H. The wage schedule found in Exhibit A to the Instructions to Bidders lists the minimum wage rates that must be paid to all workers employed in the Work throughout the term of this Contract, subject to the exceptions provided in M.G.L c.149, §§ 26-27H. The Owner is not responsible for any errors, omissions, or misprints in the said schedule. The Contractor shall not have any claim for extra compensation from the Owner arising from the fact that the actual wages paid to workers employed in the Work exceed the rates listed on the schedule or as otherwise provided by law. The Contractor shall cause a copy of the schedule to be posted in a conspicuous place at the Site during the term of the Contract. If reserve police officers are employed by the Contractor, they shall be paid the prevailing wage of regular police officers. (See M.G.L c. 149, § 34B).
- 1.9 Corporate Disclosures.** The Contractor, if a foreign corporation, shall comply with M.G.L. c. 181, §§ 3 and 5, and M.G.L. c. 30, § 39L.
- 1.10 Safety Requirements; OSHA Training [M.G.L. c. 30, s. 39S].** The Contractor shall comply and shall cause all subcontractors and persons employed on the Work

to comply with all applicable safety requirements. By executing this contract the Contractor hereby certifies 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. Any employee found on a worksite subject to this section without documentation of successful completion of 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 shall be subject to immediate removal.

- 1.11 Payroll Records and Statement of Compliance.** The Contractor shall comply and shall cause its subcontractors to comply with Massachusetts General Law c. 149, § 27B, which requires that a true and accurate record be kept of all persons employed on the project for which the prevailing wage rates have been provided. The Contractor and all Subcontractors shall keep these records and preserve them for a period of six years from the date of completion of the Contract. Such records shall be open to inspection by any authorized representative of the Owner at any reasonable time, and as often as may be necessary. The Contractor shall, and shall cause its subcontractors to, submit weekly copies of their weekly payroll records to the Owner. In addition, the Contractor and each Subcontractor shall furnish to the Executive Department of Labor within fifteen days after completion of its portion of the Work a signed statement in the form required by the Owner.
- 1.12 Workforce Qualifications.** The Contractor shall: (i) employ competent workers; (ii) enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Work; (iii) not permit employment of unfit persons or persons not skilled in tasks assigned to them. Whenever the Contracting Officer shall notify the Contractor in writing that any worker is, in the Contracting Officer's opinion, incompetent, unfaithful, disorderly, or otherwise unsatisfactory, such employee shall be discharged from the Work and shall not again be employed on the Work except with the consent of the Contracting Officer.
- 1.13 Non-Discrimination in Hiring and Employment.** By signing this Contract the Contractor hereby certifies under the pains and penalties of perjury that the Contractor currently complies with and will continue to comply with all federal and state laws, rules and regulations promoting fair employment practices or prohibiting employment discrimination and unfair labor practices and shall not discriminate in the hiring of any applicant for employment nor shall any qualified employee be demoted, discharged or otherwise subject to discrimination in the tenure, position, promotional opportunities, wages, benefits or terms and conditions of their employment because of race, color, national origin, ancestry, age, sex,

religion, disability, handicap, sexual orientation or for exercising any rights afforded by law.

1.14 Veterans Preference. In the employment of mechanics and apprentices, teamsters, chauffeurs, and laborers in the performance of Work in the Commonwealth, preference shall first be given to citizens of the Commonwealth who have been residents of the Commonwealth for at least six months at the commencement of their employment and who are veterans as defined M.G.L. c. 4, § 7 (34), and who are qualified to perform the work to which the employment relates and, within such preference, preference shall be given to service-disabled veterans; and secondly, to citizens of the Commonwealth generally who have been residents of the Commonwealth for at least six months at the commencement of their employment, and if they cannot be obtained in sufficient numbers, then to citizens of the United States.

1.15 Weekly or Biweekly wage payments [M.G.L. c. 149, § 148]. The Contractor shall comply with, and shall cause its Subcontractors to comply with M.G.L. c. 149, § 148, which requires the weekly or biweekly payment of employees within six days of the end of the pay period during which wages were earned if employed for five or six days of a calendar week, and within other periods of time under certain circumstances as set forth therein.

1.16 Labor Harmony [M.G.L. c. 30, s. 39S]. By executing this contract the Contractor hereby certifies that (1) that Contractor is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work. The Contractor shall procure materials from such sources and shall manage its own forces and the forces of its Subcontractors and any sub-subcontractors in such a manner as will result in harmonious labor relations on the site. The Contractor shall cause persons to be employed in the Work who will work in harmony with others so employed. Should the Work be stopped or materially delayed in the Owner's reasonable judgment due to a labor dispute, the Owner shall have the right to require the Contractor to employ substitutes acceptable to the Owner.

1.17 Risk of Loss. The Contractor shall bear the risk of loss with respect to any of its or its agents', employees' or subcontractors' vehicles, equipment or tools brought onto or left at the worksite and for any materials stored at the worksite.

2.0 MATERIALS AND EQUIPMENT WARRANTY

Materials and equipment to be installed as part of the Work (both or either of which are hereinafter referred to as "materials") shall be new, unused, of recent manufacture, assembled, and used in accordance with the best construction practices. The Contractor shall inform itself as to, and shall comply with, the provisions of M.G.L. c. 7, § 23A, as amended.

3.0 PROSECUTION OF THE WORK -- LIQUIDATED DAMAGES

3.1. Beginning, Progress Schedule. The Contract time shall commence upon the date

specified in the Notice to Proceed executed by the Contracting Officer and delivered to the Contractor after the execution of this Contract. The Contractor shall begin Work at the Site within ten days of said date unless otherwise ordered in writing by the Owner. Prior to commencing the Work, the Contractor shall meet with representatives of the Owner to discuss the quality assurance program, safety program, labor provisions, progress schedule, schedule of values, and other Contract procedures. Upon Approval by the Contracting Officer, the progress schedule shall constitute the progress schedule for the Work. Upon approval by the Contracting Officer, the schedule of values shall be the basis for payment for the Work. The Contractor shall at the end of each month, or more often if required, furnish to the Owner a schedule meeting the requirements of the Specifications showing the actual progress of the parts of the Work in comparison with the approved progress schedule.

3.2 Time for Completion of Work. Time is of the essence of this Contract. The Work shall be completed within the time specified in Agreement subject only to extensions specifically permitted in accordance with the terms of this Contract.

3.3 Definition of "Substantial Completion." For the purposes of this Contract the term "Substantial Completion" shall occur when (1) the Contractor fully completes the Work or substantially completes the Work so that the value of the Work remaining to be done is, in the estimate of the Owner, less than one percent of the original Contract price, or (2) the Contractor substantially completes the work and the Owner takes possession for occupancy, whichever occurs first. For the purposes of the preceding sentences the term "substantially completes" means that the work required by the Contract has been completed except for minor incomplete or unsatisfactory work items that do not materially impair the usefulness of the Work.

3.4 Failure to Complete Work on Time - Liquidated Damages. Because both parties recognize (1) that the time for completion of this Contract is of the essence, (2) that the Owner will suffer loss if the work is not completed in accordance with the phasing requirements and within the contract time specified, plus any extensions thereof allowed in accordance with the provisions of this Contract, and (3) that there are significant delays, expense and difficulties associated with a legal proceeding to determine the actual loss suffered by the Owner if the work is not completed on time; therefore, it is agreed that the Contractor will pay the Owner, as liquidated damages, the sum of [REDACTED] (\$ [REDACTED].00) per calendar per day for each and every day thereafter that it fails to deliver such Work completed according to the requirements of the Contract Documents. Such liquidated damages shall be paid not as a penalty, but to partially cover losses and expenses to the Owner, including intangible costs and losses that are or may be impracticable to ascertain. Allowing the Contractor to continue to finish the work (or any portion of the work) after the time specified for completion of the Work shall not operate as a waiver on the part of the Owner of any of its rights under the Contract Documents or otherwise under law or equity. The Owner's right to impose liquidated damages

shall in no way prohibit or restrict the Owner's right to bring legal action for damages in lieu of its option to impose liquidated damages from money due the Contractor, and if such money is insufficient to cover the liquidated damages, then the Contractor shall pay the amount due.

3.5 Collection of Liquidated Damages. The Owner may recover liquidated damages by deducting the amount thereof from any moneys due or that might become due the Contractor, and if such moneys shall be insufficient to cover the liquidated damages, then the Contractor or the Surety shall pay to the Owner the amount due.

3.6 Owner's Approvals and Interpretations. Decisions by the Owner regarding interpretation of the specifications, approval of equipment, material or any other approval, or progress of the Work, shall be made promptly and, in any event, no later than thirty days after the Contractor's written submission for decision; but if such decision requires extended investigation and study, the Owner shall, within thirty days after the receipt of the submission, give the Contractor written notice of the reasons why the decision cannot be made within the thirty day period and the date by which the decision will be made.

3.7 Extension for Delays Caused by Owner. The only circumstances under which the Contract Price shall be increased due to delays caused by the Owner are those specified in M.G.L. c. 30, § 39O, which provides:

The awarding authority may order the general contractor in writing to suspend, delay, or interrupt all or any part of the work for such period of time as it may determine to be appropriate for the convenience of the awarding authority; provided however, that if there is a suspension, delay or interruption for fifteen days or more or due to a failure of the awarding authority to act within the time specified in this contract, the awarding authority shall make an adjustment in the contract price for any increase in the cost of performance of this contract but shall not include any profit to the general contractor on such increase; and provided further, that the awarding authority shall not make any adjustment in the contract price under this provision for any suspension, delay, interruption or failure to act to the extent that such is due to any cause for which this contract provides for an equitable adjustment of the contract price under any other contract provisions.

The general contractor must submit the amount of a claim under provision (a) to the awarding authority in writing as soon as practicable after the end of the suspension, delay, interruption or failure to act and, in any event, not later than the date of final payment under this contract and, except for costs due to a suspension order, the awarding authority shall not approve any costs in the claim incurred more than twenty days before the general contractor notified the awarding authority in writing of the act or failure to act involved in the claim.

In all other cases the Contractor shall be entitled neither to increase the Contract Price nor to receive damages on account of any hindrances or delays, avoidable or unavoidable, but if the delay is caused by the Owner, the Contractor shall be entitled to an extension of time to the extent provided in M.G.L. c. 30, §39O. The Contractor must submit any claim under this paragraph to the Owner in writing as soon as practicable after the end of the Owner's suspension, delay, interruption or failure to act and, in any event, not later than the date of final payment under this Contract. Except for costs due to a suspension order, the Owner shall not approve any costs in the claim incurred more than 20 days before the Contractor notified the Owner in writing of the act or failure to act or the Owner that gave rise to the claim.

- 3.8 Owner's Right to Reject Defective Materials and Work.** Except as otherwise provided herein, the Owner's inspection of the Work shall not relieve the Contractor of any of its responsibilities hereunder, and defective work shall be corrected. The Owner may reject unsuitable work, notwithstanding that such work and materials have been previously accepted for payment. If any part of the Work shall be found defective at any time before the final acceptance of the whole Work, the Contractor shall promptly correct such defect in a manner satisfactory to the Owner. If any material brought upon the site for use in the Work shall be rejected by the Owner as not in conformity with the Contract Documents, the Contractor shall promptly remove such materials from the site.
- 3.9 Substantial Completion of the Work; Final Completion; Owner's Remedies.** When the Work has reached the point of Substantial Completion as shown on Approved payment request, the Contractor shall assist the Owner in the development of a punch list identifying those items of unfinished or unacceptable Work that remain to be performed or corrected under the Contract. The Contractor shall complete the punch list items to final completion within 30 days after the Owner's approval of the punch list. At any time after the value of the Work remaining to be done is, in the estimation of the Owner, less than 1 per cent of the adjusted Contract price, or the Owner has determined that the Contractor has substantially completed the work and the Owner has taken possession for occupancy, the Owner may send to the Contractor by certified mail, return receipt requested, a complete and final list of all incomplete and unsatisfactory work items, including, for each item on the list, a good faith estimate of the fair and reasonable cost of completing such item. The Contractor shall then complete all such work items within 30 days of receipt of such list or before the Contract completion date, whichever is later. If the Contractor fails to complete all incomplete and unsatisfactory work items within 45 days after receipt of such items furnished by the Owner or before the Contract completion date, whichever is later, subsequent to an additional 14 days' written notice to the Contractor by certified mail, return receipt requested, the Owner may terminate this Contract and complete the incomplete and unsatisfactory work items and charge the cost of same to the Contractor and such termination shall be without prejudice to any other rights or

remedies the Owner may have under this Contract.

4.0 CHANGES IN THE WORK

- 4.1 **Changes within the Scope of the Work.** A change order may be issued by the Owner for changes in the Work within the scope of the Contract, including but not limited to, changes in: (1) the Plans and Specifications; (2) the method or manner of performance of the Work; (3) the Owner-furnished facilities, equipment, materials, services, or Site; or (4) the schedule for performance of the Work. The Contractor shall immediately perform any change order work that is ordered in writing by the Owner.
- 4.2. **Request for Equitable Adjustment due to Change Order.** Whenever a change order is issued by the Owner that will cause a change in the Contractor's cost or time for performance, the Contractor or the Owner may request an equitable adjustment in the Contract Price or the Contract time. A request for such an adjustment shall be in writing and shall be submitted by the party making such claim to the other party.
- 4.3. **Latent Conditions.** If, during the progress of the Work, the Contractor or the Owner discovers that the actual subsurface or latent physical conditions encountered at the Site differ substantially or materially from those indicated in the Contract Documents, then either the Contractor or the Owner may request an equitable adjustment in the Contract Price in accordance with M.G.L. c. 30, § 39N, which provides:

If, during the progress of the work, the contractor or the awarding authority discovers that the actual subsurface or latent physical conditions encountered at the site differ substantially or materially from those shown on the plans or indicated in the contract documents either the contractor or the contracting authority may request an equitable adjustment in the contract price of the contract applying to work affected by the differing site conditions. A request for such an adjustment shall be in writing and shall be delivered by the party making such claim to the other party as soon as possible after such conditions are discovered. Upon receipt of such a claim from a contractor, or upon its own initiative, the contracting authority shall make an investigation of such physical conditions, and, if they differ substantially or materially from those shown on the plans or indicated in the contract documents or from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the plans and contract documents and are of such a nature as to cause an increase or decrease in the cost of performance of the work or a change in the construction methods required for the performance of the work which results in an increase or decrease in the cost of the work, the contracting authority shall make an equitable adjustment in the contract price and the contract shall be modified in writing accordingly

Likewise, if the latent or subsurface physical condition causes a change in the time for performing the Work, either the Contractor or the Owner may request an equitable adjustment of the time for the performance of the Work.

- 4.4 Computation of Equitable Adjustments.** Equitable adjustments in the Contract Price shall be determined according to one of the following methods, or a combination thereof, as determined by the Owner: (1) fixed price basis, provided that the fixed price shall be inclusive of items described in 4.4.1 below and shall be computed in accordance with that provision; (2) estimated lump sum basis to be adjusted in accordance with Contract unit prices or other agreed upon unit prices provided that the unit prices shall be inclusive of all costs related to such equitable adjustment; (3) time and materials basis to be subsequently adjusted on the basis of actual costs (but subject to a predetermined "not to exceed limit") calculated as follows:

- 4.4.1** Where the value of work performed directly by the Contractor under an change order is determined either by a lump sum proposal or by actual cost of work as it progresses, the Contractor will be allowed an additional amount of ten percent (10%) of the total cost of work plus an additional amount of two percent (2%) for the cost of bonds and insurance associated with the added work. Where such work is performed by a Subcontractor, the Contractor will be allowed an additional amount of five percent (5%) to the total payment made to the Subcontractor, plus an additional amount of two percent (2%) for the cost of bonds and insurance associated with the added work. The cost of work shall include the cost at the minimum wage rates established for this contract pursuant to M.G.L. c. 149, §§ 26-27H for direct labor, material and use of equipment, plus the cost of workmen's compensation insurance, liability insurance, federal social security and Massachusetts unemployment compensation. The cost of work may include the cost of added mobilization, engineering, layout, transit staging/scaffolding, lifting, hoisting, dumpster, handling, cleanup, street sweeping, safety protection, temporary weather protection, temporary heat and utilities, shipping/receiving, construction fences, police barricades and signs; provided, however, that such added costs may be included only to the extent that they are directly attributable to the added work and are properly substantiated as determined by the Owner and Architect, in their discretion. Mark-up for overhead, superintendence and profit shall include (and no additional payment shall be made for) general conditions, management, supervision coordination, record drawings, small tools/computers, "tools of the trade", administration, accounting, punch list, O&M manuals, estimator time, schedule updating, and certified payrolls. Contractor and Subcontractor mark-up of such rates for payroll costs associated FUI, SUI, MUI, worker's compensation insurance and other direct payroll costs, shall only be calculated on the direct labor rate as computed above and shall not exceed 30%, except that a higher rate may be allowed for subcontractors

only to the extent such higher rate is based on actual payroll costs of the subcontractor for which substantiating documentation of how such higher cost is calculated provided, and no other labor cost mark-ups other than those specified above will be allowed.

- 4.5 Work Performed Under Protest.** The Contractor must perform any work required by the Owner. If it considers the work to be 'extra' and the Owner disagrees, the work must be performed under protest.

5.0 PAYMENT PROVISIONS

- 5.1 Applications for Periodic Payments.** Once each month, on a date established at the beginning of the Work, the Contractor shall deliver to the Owner an itemized Application for Payment, supported by such data substantiating the Contractor's right to payment as the Owner may require. The application shall reflect a minimum of 5% retainage and shall be subject to, and processed in accordance with, the provisions of M.G.L. c. 30, §39K, which provides:

Within fifteen days (30 days in the case of the commonwealth, including local housing authorities) after receipt from the contractor, at the place designated by the awarding authority if such a place is so designated, of a periodic estimate requesting payment of the amount due for the preceding month, the awarding authority will make a periodic payment to the contractor for the work performed during the preceding month and for the materials not incorporated in the work but delivered and suitably stored at the site (or at some location agreed upon in writing) to which the contractor has title or to which a subcontractor has title and has authorized the contractor to transfer title to the awarding authority, upon certification by the contractor that he is the lawful owner and that the materials are free from all encumbrances, but less (1) a retention based on its estimate of the fair value of its claims against the contractor and less (2) a retention for direct payments to subcontractors based on demands for same in accordance with the provisions of section thirty-nine F, and less (3) a retention not exceeding five per cent of the approved amount of the periodic payment. After the receipt of a periodic estimate requesting final payment and within sixty-five days after (a) the contractor fully completes the work or substantially completes the work so that the value of the work remaining to be done is, in the estimate of the awarding authority, less than one per cent of the original contract price, or (b) the contractor substantially completes the work and the awarding authority takes possession for occupancy, whichever occurs first, the awarding authority shall pay the contractor the entire balance due on the contract less (1) a retention based on its estimate of the fair value of its claims against the contractor and of the cost of completing the incomplete and unsatisfactory items of work and less (2) a retention for direct payments to subcontractors based on demands for same in accordance with the

provisions of section thirty-nine F, or based on the record of payments by the contractor to the subcontractors under this contract if such record of payment indicates that the contractor has not paid subcontractors as provided in section thirty-nine F. If the awarding authority fails to make payment as herein provided, there shall be added to each such payment daily interest at the rate of three percentage points above the rediscount rate than charged by the Federal Reserve Bank of Boston commencing on the first day after said payment is due and continuing until the payment is delivered or mailed to the contractor; provided, that no interest shall be due, in any event, on the amount due on a periodic estimate for final payment until fifteen days (twenty-four days in the case of the commonwealth) after receipt of such a periodic estimate from the contractor, at the place designated by the awarding authority if such a place is so designated. The contractor agrees to pay to each subcontractor a portion of any such interest paid in accordance with the amount due each subcontractor.

The awarding authority may make changes in any periodic estimate submitted by the contractor and the payment due on said periodic estimate shall be computed in accordance with the changes so made, but such changes or any requirement for a corrected periodic estimate shall not affect the due date for the periodic payment or the date for the commencement of interest charges on the amount of the periodic payment computed in accordance with the changes made, as provided herein; provided, that the awarding authority may, within seven days after receipt, return to the contractor for correction, any periodic estimate which is not in the required form or which contains computations not arithmetically correct and, in that event, the date of receipt of such periodic estimate shall be the date of receipt of the corrected periodic estimate in proper form and with arithmetically correct computations. The date of receipt of a periodic estimate received on a Saturday shall be the first working day thereafter. The provisions of section thirty-nine G shall not apply to any contract for the construction, reconstruction, alteration, remodeling, repair or demolition of any public building to which this section applies.

All periodic estimates shall be submitted to the awarding authority, or to its designee as set forth in writing to the contractor, and the date of receipt by the awarding authority or its designee shall be marked on the estimate. All periodic estimates shall contain a separate item for each filed subtrade and each sub-subtrade listed in sub-bid form as required by specifications and a column listing the amount paid to each subcontractor and sub-subcontractor as of the date the periodic estimate is filed. The person making payment for the awarding authority shall add the daily interest provided for herein to each payment for each day beyond the due date based on the date of receipt marked on the estimate.

A certificate of the architect to the effect that the contractor has fully or substantially completed the work shall, subject to the provisions of section thirty-nine J, be conclusive for the purposes of this section.

Notwithstanding the provisions of this section, at any time after the value of the work remaining to be done is, in the estimation of the awarding authority, less than 1 per cent of the adjusted contract price, or the awarding authority has determined that the contractor has substantially completed the work and the awarding authority has taken possession for occupancy, the awarding authority may send to the general contractor by certified mail, return receipt requested, a complete and final list of all incomplete and unsatisfactory work items, including, for each item on the list, a good faith estimate of the fair and reasonable cost of completing such item. The general contractor shall then complete all such work items within 30 days of receipt of such list or before the contract completion date, whichever is later. If the general contractor fails to complete all incomplete and unsatisfactory work items within 45 days after receipt of such items furnished by the awarding authority or before the contract completion date, whichever is later, subsequent to an additional 14 days' written notice to the general contractor by certified mail, return receipt requested, the awarding authority may terminate the contract and complete the incomplete and unsatisfactory work items and charge the cost of same to the general contractor and such termination shall be without prejudice to any other rights or remedies the awarding authority may have under the contract. The awarding authority shall note any such termination in the evaluation form to be filed by the awarding authority pursuant to the provisions of section 44D of chapter 149.

The Contractor may include in a periodic estimate the value of materials or equipment delivered at the Site (or at some location agreed to in writing) only upon delivery to the Owner of: (1) an acceptable transfer of title on the form provided by the Owner; (2) written certification by the Contractor (or applicable subcontractor) on the form provided by the Owner that the Contractor (or the Subcontractor which executed the transfer of title) is the lawful owner and that the materials or equipment are free from all encumbrances, accompanied by receipted invoices or other acceptable proof of prior payment for such materials; (3) a stored materials insurance binder that covers the materials for which payment is requested, that names the Owner as an insured party should the stored materials be subjected to any casualty, loss, or theft prior to their inclusion in the Work. The material(s) or equipment must, in the judgment of the Designer (1) meet the requirements of the Contract, including prior shop drawing, product data, and sample approval, (2) be ready for use, and (3) be properly stored by the Contractor and be adequately protected until incorporated into the Work.

5.1.1 In submitting an Application for Payment, the Contractor warrants that title to all work covered by an application for payment will pass to the Owner either by incorporation into the construction or upon the receipt of payment

by the Contractor, whichever occurs first, free and clear of all liens, claims, security interests, or encumbrances, hereinafter referred to in this article as 'liens.' The Contractor further agrees that the submission of any application for payment shall conclusively be deemed to waive all liens with respect to set work to which the Contractor may then be entitled, provided that such waiver of the lien rights shall not waive the Contractor's right to payment for such work.

5.1.2 Payment for materials stored off site shall be at the sole discretion of the Owner. Any additional costs to the Owner resulting from storage of material off site for which payment is requested, such as, but not limited to, travel expenses and time for inspectors, shall be charged to, and paid by, the Contractor.

5.2 **Deductions by the Owner.** The Owner may deduct from any application for a periodic payment submitted by the Contractor a retention based upon the value of its claims against the Contractor plus a retention of 5% of the approved amount of the Application for Payment and any other amounts authorized by M.G.L. c. 30, §39K.

5.3 **Final Payment.** Final Payment under this Contract shall be processed in accordance with the procedures set forth in M.G.L. c. 30, §39K. The acceptance by the Contractor of the last payment due under this Contract or the Contractor's execution of the Final Certificate of Completion, shall operate as a release to the Owner from all claims and liability related to this Contract.

6.0 WARRANTIES AND GUARANTEE

6.1 **Warranty.** The Contractor warrants to the Owner that materials and equipment furnished under the Contract will be of good quality and new unless otherwise required or permitted by the Contract Documents, that the Work will be free from defects not inherent in the quality required or permitted, and that the Work will conform with the requirements of the Contract Documents. Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective. The Contractor guarantees and warrants to the Owner that all labor furnished under this Agreement will be competent to perform the tasks undertaken that the product of such labor will yield only first-class results.

6.2 **General Guaranty.** If at any time during the period of one (1) year from the date of its substantial completion, as shown on an approved payment request, the Work or any part of the Work shall in the reasonable determination of the Owner require replacing or repairing due to the fact that it is broken, defective, or otherwise does not conform to the Contract Documents, the Owner will notify the Contractor to make the required repairs or replacement. If the Contractor shall neglect to commence such repairs or replacements to the satisfaction of the Owner within ten (10) days from the date of giving or mailing such notice, then the Owner may employ other persons to make said repairs or replacements. The Contractor agrees, upon demand, to pay to the Owner all amounts which the Owner expends for such repairs

or replacements. For items of work completed after substantial completion, the one-year guarantee shall commence at the time the Owner approves of the completion of such items. This one-year guarantee shall not limit any express guaranty or warranty required to be assigned to the Owner pursuant to the terms of the Plans and Specifications.

- 6.3** All guarantees and warranties required in the various Sections of the Specifications that originate with a Subcontractor or Manufacturer must be delivered to the Owner before final payment to the Contractor may be made for the amount of the sub-trade or for the phase of work to which the guarantee or warranty relates. The failure to deliver a required guarantee or warranty shall constitute a failure of the Subcontractor to fully complete its 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.

7.0 INSURANCE REQUIREMENTS

- 7.1** The Contractor shall purchase from, and maintain in a company or companies lawfully authorized to do business in the Commonwealth of Massachusetts, and to which the Owner has no reasonable objection, insurance for protection from claims under workers' compensation acts and other employee benefit acts which are applicable, claims for damages because of bodily injury, including death, and claims for damages, other than to the Work itself, to property which may arise out of or result from the Contractor's operations and completed operations under the Contract, whether such operations be by the Contractor or by a Subcontractor or anyone directly or indirectly employed by any of them. This insurance shall be written for not less than limits of liability specified herein.
- 7.2** The insurance required by the above shall be written for not less than the following amounts and shall be submitted on ACORD Certificate of Insurance Form 2.5-S (08/01) or other similar form acceptable to the Owner:
- 7.2.1** Commonwealth of Massachusetts Statutory Worker's Compensation and other benefits as required under the General Laws of Massachusetts, including Employer's Liability Part B: \$500,000/\$500,000/\$500,000.
 - 7.2.2** Broad form Commercial General Liability, written on a "per occurrence" basis with an aggregate cap no less than three (3) times the required limit: \$1,000,000 C.S.L. Property Damage Liability shall include coverage for X-C-U hazard of explosion, collapse, and damage to underground property.
 - 7.2.3** Umbrella or Excess Liability coverage following form of underlying General, Automobile and Employers' Liability Coverage: (a) Minimum of \$2,000,000 C.S.L. over primary insurance; (b) No more than \$10,000 Retention.
 - 7.2.4** Comprehensive Automobile Liability covering owned, non-owned, and hired or borrowed vehicles: \$1,000,000 C.S.L.

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

7.3.1 Certificates of Insurance and copies of policies acceptable to the Owner shall be addressed to and filed with the Owner prior to commencement of the work. Renewal certificates shall be filed with the Owner at least thirty (30) days prior to the expiration date of required policies.

7.3.2 No insurance coverage shall be subject to cancellation or non-renewal without at least thirty (30) days prior written notice forwarded by registered or certified mail to the Town. The Contractor shall notify the Town of the attachment of any restrictive amendments, material changes or impairment to the policies.

7.3.3 All premium costs shall be included in Contractor's bid. The Contractor shall be responsible for the cost of any and all deductibles.

7.3.4 The Town of Bourne (including its officials, employees, agents and representatives) shall be named as additional insured on Contractor's General Liability, Automobile Liability, and Umbrella or Excess Liability Insurance Policies.

7.4 Neither the Owner's authority to review certificates and policies of insurance nor its decision to raise or not to raise any objections about those certificates and policies, shall in any way give rise to any duty or responsibility on the part of the Owner to exercise this authority for the benefit of the Contractor, any Subcontractor, Sub-subcontractor, or Supplier, or any other party.

7.5 The Contractor's liability insurance shall remain in effect until the end of the Correction period as defined in the Contract Documents, and at all times after that when the Contractor may be correcting, removing or replacing defective Work. The Completed Operations insurance shall be maintained for three (3) years after Final Payment.

7.6 Insufficient insurance shall not release the Contractor from any liability for breach of its obligations under this Agreement.

8.0 INDEMNIFICATION

To the fullest extent permitted by law, the Contractor shall defend, indemnify in whole or in part, defend, pay-on-behalf of and hold harmless the Owner, its officers, agents, employees, successors and assigns from and against all claims, damages, losses and expenses, including but not limited to attorneys' fees and loss of use caused by the negligent acts or omissions of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity which would otherwise exist as to any party or person described in this Article 8.

9.0 BONDS

The Contractor shall furnish a performance bond for the full amount of the Contract, and also a labor and materials payment bond for the full amount of the Contract, the form of which bonds are set forth in the Contract Documents, each of a surety company qualified to do business under State laws and satisfactory to the Owner, the premiums for which are to be included in the Contract Price and paid by the Contractor. These bonds shall (a) guarantee the faithful performance by the Contractor of all its obligations under this contract and (b) constitute the security required by M.G.L. c. 149, § 29 and M.G.L. c. 30, § 39A, as amended, for payment by the Contractor or its subcontractors used or employed in connection with the contract. Each bond shall incorporate by reference the terms of this contract. These bonds shall remain in effect for the entire guarantee period for each phase of the work, which shall commence on the date of Final Completion, as defined in the Contract Documents.

10.0 TERMINATION

10.1 Termination for Cause. If the Contractor is adjudged a bankrupt, or if the Contractor makes a general assignment for the benefit of the Contractor's creditors, or if a receiver is appointed on account of the Contractor's insolvency, or if the Contractor consistently or repeatedly refuses or fails, excepting cases of which extension of time is appropriated, to supply enough properly skilled workmen or proper materials, or if the Contractor fails to make prompt payment to the Subcontractors of for materials or labor, or persistently disregards law, ordinances, rules, regulations, or orders of any public authority having jurisdiction or disregards an instruction, order or decision of the Contracting Officer, or otherwise is guilty of a substantial violation of any provision of the contract, then the Contractor shall be in default, and the Owner may, without prejudice to any other right or remedy and upon written notice to the Contractor, take possession of all materials, tools, appliances, equipment, construction equipment, and machinery and vehicles, offices and other facilities on the project site and all material intended for the work, wherever stored, and seven (7) days after such notice, may terminate the employment of the Contractor, accept assignment of any or all Subcontractor's contracts pursuant to this Agreement, and furnish the work by whatever method the Owner may deem expedient. The Owner shall be entitled to collect from the Contractor all direct, indirect, and consequential damages suffered by the Owner of behalf of the Contractor's defaults. The Owner shall be entitled to hold all amounts due to Contractor at the date of termination until all of the Owner's damages have been established, and to apply such amounts to such damages.

10.1.1 The Owner shall incur no liability by reason of such termination.

10.2 Termination for Convenience.

10.2.1 In the event that this Contract is terminated by the Owner prior to the completion of construction and termination is not based on a reason listed in Paragraph 10.1, the Contractor shall be compensated for its costs incurred,

including reasonable costs of de-mobilization, calculated on a percent completion basis covering the period of time between the last Approved application for payment and the date of termination.

10.2.2 Payment by the Owner pursuant to Subparagraph 10.2.1 shall be deemed to fully compensate the Contractor for all claims and expenses directly or indirectly attributable to the termination, including any claims for lost profits.

10.3 The Contractor shall not be relieved of liability to the Owner 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.

11. NON-APPROPRIATION

Payments are subject to appropriation and shall be made only for work performed in accordance with the terms of this Contract. The Contractor shall not be obligated to perform, and may not perform, work outside the duration and scope of this Contract without an appropriate amendment to this Contract, and a sufficient appropriation(s) to support such additional work. The Owner may immediately terminate or suspend this Contract in the event that the appropriation(s) funding this Contract is eliminated or reduced to an amount which will be insufficient to support anticipated future obligations under this Contract.

12. RECORDS AND LAWS

The Contractor shall make, and keep for at least six years after final payment, books, records, and accounts, which in reasonable detail accurately and fairly reflect the transactions and dispositions of the Contractor.

13. CHOICE OF LAW

This Contract shall be construed under and governed by the laws of the Commonwealth of Massachusetts. The Contractor, and the agents thereof, agree to bring any federal or state legal proceedings arising under this Contract, in which either the Commonwealth or the Owner is a party, in a court of competent jurisdiction within the Commonwealth of Massachusetts. This section shall not be construed to limit any rights a party may have to intervene in any action, in any court or wherever, pending, in which the other is a party.

14. NOTICES

Notices to the Contractor shall be deemed given when hand delivered to the Contractor's Representative in person, or when deposited in the U.S. mail addressed to the Contractor at the Contractor's address specified in the Owner - Contractor Agreement, or when delivered by courier to either location. Unless otherwise specified in writing by the Owner, notices and deliveries to the Owner shall be effective only when delivered to the Owner at the address specified in the Owner - Contractor Agreement and date-stamped at the reception desk or for which a receipt has been signed by the agent or employee designated by the Owner to receive official notices.

TOWN OF BOURNE

CERTIFICATE OF NON-COLLUSION

The undersigned certifies under the 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, partnerships, corporation, union, committee, club, or other organization, entity, or group of individuals.

Name of Business: _____

Signature: _____

Name of Person signing Bid: _____

TOWN OF BOURNE
CERTIFICATE AS TO CORPORATE BIDDER
(GENERAL CONTRACTOR)

I _____ certify
that I am the _____
of the Corporation named as bidder in the within Bid Form; that _____
_____ who signed said Bid Form on behalf of the Bidder was then
_____ of said Corporation; that I know his signature and that his signature
hereto is genuine and that said Bid Form was duly signed, sealed and executed for and on behalf
of said Corporation by authority of its Board of Directors.

(Corporate Seal)

(Signature)

(Title)

This Certificate must be completed where Bidder is a Corporation, and should be so completed by its Clerk. In the event that the Clerk is the person signing the Proposal on behalf of the Corporation, this Certificate must be completed by another officer of the Corporation.

END OF DOCUMENT

DOCUMENT 00311

CERTIFICATE OF COMPLIANCE WITH TAX LAWS

Pursuant to Commonwealth of Massachusetts General Laws, Chapter 62C, Section 49A, I
certify

under the penalties of perjury that, _____
(Contractor)

is in compliance with all laws of the Commonwealth relating to taxes, reporting of
employees and contractors, and withholding and remitting child support.

(Contractor)

By: _____

Contractor's Federal Tax I.D. No. _____

TOWN OF BOURNE

CERTIFICATE OF VOTE

(to be filed if Contractor is a Corporation)

I, _____, hereby certify that I am the duly qualified and
(Secretary of the Corporation)

acting Secretary of _____ and I further certify that a meeting
(Name of Corporation)

of the Directors of said Company, duly called and held on _____, at which
all

(Date of Meeting)

Directors were present and voting, the following vote was unanimously passed:

VOTED:

To authorize and empower

Anyone acting singly, to execute Forms of General Bid, Contracts or Bonds on behalf of the Corporation. I further certify that the above vote is still in effect and has not been changed or modified in any respect.

By: _____
(Secretary of Corporation)

A True Copy:

Attest: _____
(Notary Public)

My Commission Expires _____
(Date)

TOWN OF BOURNE

AGREEMENT

THIS AGREEMENT, made this _____ day of _____, 2023 by and between the party of the first part, the Town of Bourne, Massachusetts hereinafter called "OWNER" or "AWARDING AUTHORITY", acting herein through its _____, and the party of the second part, _____, doing business

as a corporation located in the City/Town of _____, County of _____, State of _____, hereinafter called the "CONTRACTOR"

WITNESSETH: That for and in consideration of the payments and agreements hereinafter mentioned, to be made and performed by the OWNER, the CONTRACTOR hereby agrees with the OWNER to commence and complete the project described as follows:

hereinafter called the "PROJECT" for the sum of

_____ Dollars (\$ _____)

The Contract Sum includes incorporation into the Contract of Alternate(s) _____ as described in Section _____, ALTERNATES of the Specifications and all extra work in connection therewith, under the terms as stated in the Contract Documents; and at his (its or their) own proper cost and expense to furnish all the materials, supplies, machinery equipment, tools, superintendence, labor, insurance, and other accessories and services necessary to complete the said project in accordance with the conditions and prices stated in Document FORM FOR GENERAL BID; GENERAL CONDITIONS and all the BUILDING REQUIREMENTS, CONTRACT REQUIREMENTS and GENERAL REQUIREMENTS, as listed in the PROJECT MANUAL the plans, which include all maps, plates, blue prints, and the specifications and Contract Documents as prepared by the OWNER all of which are attached hereto and incorporated by reference herein in their entirety.

The undersigned CONTRACTOR agrees to commence work on the Contract on or before the fourteenth (14th) day following the Notice of Award and to thereafter diligently and continuously carry out the work in such manner as to fully complete all the different elements of the work within seven (7) days thereafter.

The CONTRACTOR agrees not to discriminate against or exclude any person from participation herein on grounds of race, religion, color, sex, age or national origin; and that it shall take affirmative actions to insure that applicants are employed, and that employees are treated during their employment, without regard to race, religion, color, sex, age, handicapped status, or national origin.

The CONTRACTOR agrees not to participate in or cooperate with an international boycott, as defined in Section 999 (b)(3) and (4) of the Internal Revenue Code of 1954, as amended, or engage in conduct declared to be unlawful by Section 2 of Chapter 151E of the Commonwealth of Massachusetts General Laws.

Pursuant to M.G.L. c. 62(c), §49 (a), the individual signing this Agreement on behalf of the CONTRACTOR hereby certifies, under the penalties of perjury, that to the best of his or her knowledge and belief the CONTRACTOR has complied with any and all applicable state and federal tax laws. The individual signing this Agreement on behalf of the CONTRACTOR further certifies under penalties of perjury that the Contractor is not presently debarred from doing public construction work in the Commonwealth under the provisions of M.G.L. c. 29, § 29F, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder and is not presently debarred from doing public construction work by any agency of the United States Government.

The OWNER agrees to pay the CONTRACTOR in current funds for the performance of the contract, subject to additions and deductions, as provided in Document GENERAL CONDITIONS, and to make payments on account thereof as provided therein.

IN WITNESS WHEREOF, the parties to these presents have executed this contract in two (2) counterparts, each of which shall be deemed an original, on the year and day first above mentioned.

AGREED: OWNER: TOWN OF BOURNE, MASSACHUSETTS
by its _____

By: _____

CONTRACTOR: _____
(Name of Company)

By: _____
(Name)

(Title)

(Address)

(City and State)

In accordance with M.G.L. c. 44, Section 31C, this is to certify that an appropriation in the amount of this Contract is available therefor and that the _____ has been authorized to execute the Contract and approve all requisitions and change orders.

By: _____
(Town Treasurer)



MAURA HEALEY
Governor

KIM DRISCOLL
Lt. Governor

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

Prevailing Wage Rates

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

LAUREN JONES
Secretary

MICHAEL FLANAGAN
Director

Awarding Authority: Town of Bourne
Contract Number: **City/Town:** BOURNE
Description of Work: To provide services to remove and dispose of existing garage door and any parts of the building associates with the work, and install new overhead coiling door, steel framing and flashing.
Job Location: 14 Thomas Pilbrick Road, Bourne, MA 02532

Information about Prevailing Wage Schedules for Awarding Authorities and Contractors

- **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 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, the 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. The annual update requirement is not applicable to 27F "rental of equipment" contracts. **The updated wage schedule must be provided to all contractors, including general and sub-contractors, working on the construction project.**
- 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 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 a sub-contractor.
- Apprentices working on the project are required to be registered with the Massachusetts Division of Apprentice Standards (DAS). Apprentices must keep their apprentice identification card on their persons during all work hours on the project. An apprentice registered with DAS may be paid the lower apprentice wage rate at the applicable step as provided on the prevailing wage schedule. **Any apprentice not registered with DAS regardless of whether they are registered with another federal, state, local, or private agency must be paid the journeyworker's rate.**
- Every contractor or subcontractor working on the construction project must 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. For a sample payroll reporting form go to <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.
- Contractors must obtain the wage schedules from awarding authorities. 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.
- Employees not receiving the prevailing wage rate set forth on the wage schedule may file a complaint with the Fair Labor Division of the office of the Attorney General at (617) 727-3465.

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>	12/01/2021	\$35.95	\$13.41	\$16.01	\$0.00	\$65.37
(3 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2021	\$36.02	\$13.41	\$16.01	\$0.00	\$65.44
(4 & 5 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2021	\$36.14	\$13.41	\$16.01	\$0.00	\$65.56
ADS/SUBMERSIBLE PILOT <i>PILE DRIVER LOCAL 56 (ZONE 2)</i>	08/01/2020	\$103.05	\$9.40	\$23.12	\$0.00	\$135.57
For apprentice rates see "Apprentice- PILE DRIVER"						
AIR TRACK OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.91	\$9.10	\$16.64	\$0.00	\$63.65
	06/01/2023	\$38.81	\$9.10	\$16.64	\$0.00	\$64.55
	12/01/2023	\$39.71	\$9.10	\$16.64	\$0.00	\$65.45
For apprentice rates see "Apprentice- LABORER"						
AIR TRACK OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2022	\$37.31	\$9.35	\$16.89	\$0.00	\$63.55
	06/01/2023	\$38.21	\$9.35	\$16.89	\$0.00	\$64.45
	12/01/2023	\$39.11	\$9.35	\$16.89	\$0.00	\$65.35
	06/01/2024	\$40.44	\$9.35	\$16.89	\$0.00	\$66.68
	12/01/2024	\$41.77	\$9.35	\$16.89	\$0.00	\$68.01
	06/01/2025	\$43.16	\$9.35	\$16.89	\$0.00	\$69.40
	12/01/2025	\$44.54	\$9.35	\$16.89	\$0.00	\$70.78
	06/01/2026	\$45.98	\$9.35	\$16.89	\$0.00	\$72.22
	12/01/2026	\$47.42	\$9.35	\$16.89	\$0.00	\$73.66
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
ASBESTOS WORKER (PIPES & TANKS) <i>HEAT & FROST INSULATORS LOCAL 6 (SOUTHERN MASS)</i>	12/01/2020	\$38.10	\$12.80	\$9.45	\$0.00	\$60.35
ASPHALT RAKER <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"						
ASPHALT RAKER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2022	\$36.81	\$9.35	\$16.89	\$0.00	\$63.05
	06/01/2023	\$37.71	\$9.35	\$16.89	\$0.00	\$63.95
	12/01/2023	\$38.61	\$9.35	\$16.89	\$0.00	\$64.85
	06/01/2024	\$39.94	\$9.35	\$16.89	\$0.00	\$66.18
	12/01/2024	\$41.27	\$9.35	\$16.89	\$0.00	\$67.51
	06/01/2025	\$42.66	\$9.35	\$16.89	\$0.00	\$68.90
	12/01/2025	\$44.04	\$9.35	\$16.89	\$0.00	\$70.28
	06/01/2026	\$45.48	\$9.35	\$16.89	\$0.00	\$71.72
	12/01/2026	\$46.92	\$9.35	\$16.89	\$0.00	\$73.16
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.63	\$14.25	\$16.05	\$0.00	\$83.93
	06/01/2023	\$54.88	\$14.25	\$16.05	\$0.00	\$85.18
	12/01/2023	\$56.13	\$14.25	\$16.05	\$0.00	\$86.43
	06/01/2024	\$57.43	\$14.25	\$16.05	\$0.00	\$87.73
	12/01/2024	\$58.88	\$14.25	\$16.05	\$0.00	\$89.18
	06/01/2025	\$60.18	\$14.25	\$16.05	\$0.00	\$90.48
	12/01/2025	\$61.63	\$14.25	\$16.05	\$0.00	\$91.93
	06/01/2026	\$62.93	\$14.25	\$16.05	\$0.00	\$93.23
	12/01/2026	\$64.38	\$14.25	\$16.05	\$0.00	\$94.68
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BACKHOE/FRONT-END LOADER <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.63	\$14.25	\$16.05	\$0.00	\$83.93
	06/01/2023	\$54.88	\$14.25	\$16.05	\$0.00	\$85.18
	12/01/2023	\$56.13	\$14.25	\$16.05	\$0.00	\$86.43
	06/01/2024	\$57.43	\$14.25	\$16.05	\$0.00	\$87.73
	12/01/2024	\$58.88	\$14.25	\$16.05	\$0.00	\$89.18
	06/01/2025	\$60.18	\$14.25	\$16.05	\$0.00	\$90.48
	12/01/2025	\$61.63	\$14.25	\$16.05	\$0.00	\$91.93
	06/01/2026	\$62.93	\$14.25	\$16.05	\$0.00	\$93.23
	12/01/2026	\$64.38	\$14.25	\$16.05	\$0.00	\$94.68
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BARCO-TYPE JUMPING TAMPER <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"						
BLOCK PAVER, RAMMER / CURB SETTER <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.91	\$9.10	\$16.64	\$0.00	\$63.65
	06/01/2023	\$38.81	\$9.10	\$16.64	\$0.00	\$64.55
	12/01/2023	\$39.71	\$9.10	\$16.64	\$0.00	\$65.45
For apprentice rates see "Apprentice- LABORER"						
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2022	\$37.31	\$9.35	\$16.89	\$0.00	\$63.55
	06/01/2023	\$38.21	\$9.35	\$16.89	\$0.00	\$64.45
	12/01/2023	\$39.11	\$9.35	\$16.89	\$0.00	\$65.35
	06/01/2024	\$40.44	\$9.35	\$16.89	\$0.00	\$66.68
	12/01/2024	\$41.77	\$9.35	\$16.89	\$0.00	\$68.01
	06/01/2025	\$43.16	\$9.35	\$16.89	\$0.00	\$69.40
	12/01/2025	\$44.54	\$9.35	\$16.89	\$0.00	\$70.78
	06/01/2026	\$45.98	\$9.35	\$16.89	\$0.00	\$72.22
	12/01/2026	\$47.42	\$9.35	\$16.89	\$0.00	\$73.66
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
BOILER MAKER <i>BOILERMAKERS LOCAL 29</i>	01/01/2023	\$47.37	\$7.07	\$20.31	\$0.00	\$74.75
	01/01/2024	\$48.12	\$7.07	\$20.60	\$0.00	\$75.79

Apprentice - BOILERMAKER - Local 29

Effective Date - 01/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	65	\$30.79	\$7.07	\$13.22	\$0.00	\$51.08
2	65	\$30.79	\$7.07	\$13.22	\$0.00	\$51.08
3	70	\$33.16	\$7.07	\$14.23	\$0.00	\$54.46
4	75	\$35.53	\$7.07	\$15.24	\$0.00	\$57.84
5	80	\$37.90	\$7.07	\$16.25	\$0.00	\$61.22
6	85	\$40.26	\$7.07	\$17.28	\$0.00	\$64.61
7	90	\$42.63	\$7.07	\$18.28	\$0.00	\$67.98
8	95	\$45.00	\$7.07	\$19.32	\$0.00	\$71.39

Effective Date - 01/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	65	\$31.28	\$7.07	\$13.22	\$0.00	\$51.57
2	65	\$31.28	\$7.07	\$13.22	\$0.00	\$51.57
3	70	\$33.68	\$7.07	\$14.23	\$0.00	\$54.98
4	75	\$36.09	\$7.07	\$15.24	\$0.00	\$58.40
5	80	\$38.50	\$7.07	\$16.25	\$0.00	\$61.82
6	85	\$40.90	\$7.07	\$17.28	\$0.00	\$65.25
7	90	\$43.31	\$7.07	\$18.28	\$0.00	\$68.66
8	95	\$45.71	\$7.07	\$19.32	\$0.00	\$72.10

Notes:

Apprentice to Journeyworker Ratio:1:4

BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING) BRICKLAYERS LOCAL 3 (NEW BEDFORD)	02/01/2023	\$60.35	\$11.49	\$22.34	\$0.00	\$94.18
	08/01/2023	\$62.40	\$11.49	\$22.34	\$0.00	\$96.23
	02/01/2024	\$63.65	\$11.49	\$22.34	\$0.00	\$97.48
	08/01/2024	\$65.75	\$11.49	\$22.34	\$0.00	\$99.58
	02/01/2025	\$67.05	\$11.49	\$22.34	\$0.00	\$100.88
	08/01/2025	\$69.20	\$11.49	\$22.34	\$0.00	\$103.03
	02/01/2026	\$70.55	\$11.49	\$22.34	\$0.00	\$104.38
	08/01/2026	\$72.75	\$11.49	\$22.34	\$0.00	\$106.58
	02/01/2027	\$74.15	\$11.49	\$22.34	\$0.00	\$107.98

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
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Apprentice - BRICK/PLASTER/CEMENT MASON - Local 3 New Bedford

Effective Date - 02/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$30.18	\$11.49	\$22.34	\$0.00	\$64.01
2	60	\$36.21	\$11.49	\$22.34	\$0.00	\$70.04
3	70	\$42.25	\$11.49	\$22.34	\$0.00	\$76.08
4	80	\$48.28	\$11.49	\$22.34	\$0.00	\$82.11
5	90	\$54.32	\$11.49	\$22.34	\$0.00	\$88.15

Effective Date - 08/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$31.20	\$11.49	\$22.34	\$0.00	\$65.03
2	60	\$37.44	\$11.49	\$22.34	\$0.00	\$71.27
3	70	\$43.68	\$11.49	\$22.34	\$0.00	\$77.51
4	80	\$49.92	\$11.49	\$22.34	\$0.00	\$83.75
5	90	\$56.16	\$11.49	\$22.34	\$0.00	\$89.99

Notes:

Apprentice to Journeyworker Ratio:1:5

BULLDOZER/GRADER/SCRAPER	12/01/2022	\$53.05	\$14.25	\$16.05	\$0.00	\$83.35
OPERATING ENGINEERS LOCAL 4	06/01/2023	\$54.29	\$14.25	\$16.05	\$0.00	\$84.59
	12/01/2023	\$55.53	\$14.25	\$16.05	\$0.00	\$85.83
	06/01/2024	\$56.81	\$14.25	\$16.05	\$0.00	\$87.11
	12/01/2024	\$58.25	\$14.25	\$16.05	\$0.00	\$88.55
	06/01/2025	\$59.53	\$14.25	\$16.05	\$0.00	\$89.83
	12/01/2025	\$60.97	\$14.25	\$16.05	\$0.00	\$91.27
	06/01/2026	\$62.25	\$14.25	\$16.05	\$0.00	\$92.55
	12/01/2026	\$63.69	\$14.25	\$16.05	\$0.00	\$93.99

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

CAISSON & UNDERPINNING BOTTOM MAN	12/01/2022	\$43.73	\$9.35	\$17.97	\$0.00	\$71.05
LABORERS - FOUNDATION AND MARINE	06/01/2023	\$44.73	\$9.35	\$17.97	\$0.00	\$72.05
	12/01/2023	\$45.98	\$9.35	\$17.97	\$0.00	\$73.30
	06/01/2024	\$47.46	\$9.35	\$17.97	\$0.00	\$74.78
	12/01/2024	\$48.93	\$9.35	\$17.97	\$0.00	\$76.25
	06/01/2025	\$50.43	\$9.35	\$17.97	\$0.00	\$77.75
	12/01/2025	\$51.93	\$9.35	\$17.97	\$0.00	\$79.25
	06/01/2026	\$53.48	\$9.35	\$17.97	\$0.00	\$80.80
	12/01/2026	\$54.98	\$9.35	\$17.97	\$0.00	\$82.30

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
CAISSON & UNDERPINNING LABORER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2022	\$42.58	\$9.35	\$17.97	\$0.00	\$69.90
	06/01/2023	\$43.58	\$9.35	\$17.97	\$0.00	\$70.90
	12/01/2023	\$44.83	\$9.35	\$17.97	\$0.00	\$72.15
	06/01/2024	\$46.31	\$9.35	\$17.97	\$0.00	\$73.63
	12/01/2024	\$47.78	\$9.35	\$17.97	\$0.00	\$75.10
	06/01/2025	\$49.28	\$9.35	\$17.97	\$0.00	\$76.60
	12/01/2025	\$50.78	\$9.35	\$17.97	\$0.00	\$78.10
	06/01/2026	\$52.33	\$9.35	\$17.97	\$0.00	\$79.65
	12/01/2026	\$53.83	\$9.35	\$17.97	\$0.00	\$81.15
For apprentice rates see "Apprentice- LABORER"						
CAISSON & UNDERPINNING TOP MAN <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2022	\$42.58	\$9.35	\$17.97	\$0.00	\$69.90
	06/01/2023	\$43.58	\$9.35	\$17.97	\$0.00	\$70.90
	12/01/2023	\$44.83	\$9.35	\$17.97	\$0.00	\$72.15
	06/01/2024	\$46.31	\$9.35	\$17.97	\$0.00	\$73.63
	12/01/2024	\$47.78	\$9.35	\$17.97	\$0.00	\$75.10
	06/01/2025	\$49.28	\$9.35	\$17.97	\$0.00	\$76.60
	12/01/2025	\$50.78	\$9.35	\$17.97	\$0.00	\$78.10
	06/01/2026	\$52.33	\$9.35	\$17.97	\$0.00	\$79.65
	12/01/2026	\$53.83	\$9.35	\$17.97	\$0.00	\$81.15
For apprentice rates see "Apprentice- LABORER"						
CARBIDE CORE DRILL OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"						
CARPENTER <i>CARPENTERS -ZONE 2 (Eastern Massachusetts)</i>	03/01/2023	\$45.78	\$8.68	\$19.97	\$0.00	\$74.43

Apprentice - CARPENTER - Zone 2 Eastern MA

Effective Date - 03/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.89	\$8.68	\$1.73	\$0.00	\$33.30
2	60	\$27.47	\$8.68	\$1.73	\$0.00	\$37.88
3	70	\$32.05	\$8.68	\$14.78	\$0.00	\$55.51
4	75	\$34.34	\$8.68	\$14.78	\$0.00	\$57.80
5	80	\$36.62	\$8.68	\$16.51	\$0.00	\$61.81
6	80	\$36.62	\$8.68	\$16.51	\$0.00	\$61.81
7	90	\$41.20	\$8.68	\$18.24	\$0.00	\$68.12
8	90	\$41.20	\$8.68	\$18.24	\$0.00	\$68.12

Notes:

% Indentured After 10/1/17; 45/45/55/55/70/70/80/80
Step 1&2 \$30.71/ 3&4 \$36.93/ 5&6 \$56.82/ 7&8 \$63.06

Apprentice to Journeyworker Ratio:1:5

CARPENTER WOOD FRAME <i>CARPENTERS-ZONE 3 (Wood Frame)</i>	04/01/2022	\$23.66	\$7.21	\$4.80	\$0.00	\$35.67
	04/01/2023	\$24.16	\$7.21	\$4.80	\$0.00	\$36.17
All Aspects of New Wood Frame Work						

Apprentice - CARPENTER (Wood Frame) - Zone 3

Effective Date - 04/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$14.20	\$7.21	\$0.00	\$0.00	\$21.41
2	60	\$14.20	\$7.21	\$0.00	\$0.00	\$21.41
3	65	\$15.38	\$7.21	\$0.00	\$0.00	\$22.59
4	70	\$16.56	\$7.21	\$0.00	\$0.00	\$23.77
5	75	\$17.75	\$7.21	\$3.80	\$0.00	\$28.76
6	80	\$18.93	\$7.21	\$3.80	\$0.00	\$29.94
7	85	\$20.11	\$7.21	\$3.80	\$0.00	\$31.12
8	90	\$21.29	\$7.21	\$3.80	\$0.00	\$32.30

Effective Date - 04/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$14.50	\$7.21	\$0.00	\$0.00	\$21.71
2	60	\$14.50	\$7.21	\$0.00	\$0.00	\$21.71
3	65	\$15.70	\$7.21	\$0.00	\$0.00	\$22.91
4	70	\$16.91	\$7.21	\$0.00	\$0.00	\$24.12
5	75	\$18.12	\$7.21	\$3.80	\$0.00	\$29.13
6	80	\$19.33	\$7.21	\$3.80	\$0.00	\$30.34
7	85	\$20.54	\$7.21	\$3.80	\$0.00	\$31.55
8	90	\$21.74	\$7.21	\$3.80	\$0.00	\$32.75

Notes:

% Indentured After 10/1/17; 45/45/55/55/70/70/80/80

Step 1&2 \$17.86/ 3&4 \$20.22/ 5&6 \$27.57/ 7&8 \$29.94

Apprentice to Journeyworker Ratio:1:5

CEMENT MASONRY/PLASTERING	01/01/2023	\$49.45	\$12.75	\$22.74	\$0.87	\$85.81
BRICKLAYERS LOCAL 3 (NEW BEDFORD)	07/01/2023	\$50.59	\$12.75	\$22.74	\$0.87	\$86.95
	01/01/2024	\$51.73	\$12.75	\$22.74	\$0.87	\$88.09

Classification

Effective Date

Base Wage

Health

Pension

Supplemental
Unemployment

Total Rate

Apprentice - CEMENT MASONRY/PLASTERING - Eastern Mass (New Bedford)**Effective Date - 01/01/2023**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.73	\$12.75	\$15.49	\$0.00	\$52.97
2	60	\$29.67	\$12.75	\$22.74	\$0.87	\$66.03
3	65	\$32.14	\$12.75	\$22.74	\$0.87	\$68.50
4	70	\$34.62	\$12.75	\$22.74	\$0.87	\$70.98
5	75	\$37.09	\$12.75	\$22.74	\$0.87	\$73.45
6	80	\$39.56	\$12.75	\$22.74	\$0.87	\$75.92
7	90	\$44.51	\$12.75	\$22.74	\$0.87	\$80.87

Effective Date - 07/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.30	\$12.75	\$15.49	\$0.00	\$53.54
2	60	\$30.35	\$12.75	\$22.74	\$0.87	\$66.71
3	65	\$32.88	\$12.75	\$22.74	\$0.87	\$69.24
4	70	\$35.41	\$12.75	\$22.74	\$0.87	\$71.77
5	75	\$37.94	\$12.75	\$22.74	\$0.87	\$74.30
6	80	\$40.47	\$12.75	\$22.74	\$0.87	\$76.83
7	90	\$45.53	\$12.75	\$22.74	\$0.87	\$81.89

Notes:

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

Apprentice to Journeyworker Ratio:1:3

CHAIN SAW OPERATOR	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
LABORERS - ZONE 2	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"						
CLAM SHELLS/SLURRY BUCKETS/HEADING MACHINES	12/01/2022	\$54.68	\$14.25	\$16.05	\$0.00	\$84.98
OPERATING ENGINEERS LOCAL 4	06/01/2023	\$55.95	\$14.25	\$16.05	\$0.00	\$86.25
	12/01/2023	\$57.23	\$14.25	\$16.05	\$0.00	\$87.53
	06/01/2024	\$58.55	\$14.25	\$16.05	\$0.00	\$88.85
	12/01/2024	\$60.03	\$14.25	\$16.05	\$0.00	\$90.33
	06/01/2025	\$61.36	\$14.25	\$16.05	\$0.00	\$91.66
	12/01/2025	\$62.83	\$14.25	\$16.05	\$0.00	\$93.13
	06/01/2026	\$64.16	\$14.25	\$16.05	\$0.00	\$94.46
	12/01/2026	\$65.64	\$14.25	\$16.05	\$0.00	\$95.94
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>	12/01/2022	\$35.08	\$14.25	\$16.05	\$0.00	\$65.38
	06/01/2023	\$35.90	\$14.25	\$16.05	\$0.00	\$66.20
	12/01/2023	\$36.72	\$14.25	\$16.05	\$0.00	\$67.02
	06/01/2024	\$37.57	\$14.25	\$16.05	\$0.00	\$67.87
	12/01/2024	\$38.52	\$14.25	\$16.05	\$0.00	\$68.82
	06/01/2025	\$39.37	\$14.25	\$16.05	\$0.00	\$69.67
	12/01/2025	\$40.32	\$14.25	\$16.05	\$0.00	\$70.62
	06/01/2026	\$41.18	\$14.25	\$16.05	\$0.00	\$71.48
	12/01/2026	\$42.13	\$14.25	\$16.05	\$0.00	\$72.43

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

DELEADER (BRIDGE) <i>PAINTERS LOCAL 35 - ZONE 2</i>	01/01/2023	\$56.06	\$8.65	\$23.05	\$0.00	\$87.76
	07/01/2023	\$57.26	\$8.65	\$23.05	\$0.00	\$88.96
	01/01/2024	\$58.46	\$8.65	\$23.05	\$0.00	\$90.16
	07/01/2024	\$59.66	\$8.65	\$23.05	\$0.00	\$91.36
	01/01/2025	\$60.86	\$8.65	\$23.05	\$0.00	\$92.56

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 01/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$28.03	\$8.65	\$0.00	\$0.00	\$36.68
2	55	\$30.83	\$8.65	\$6.27	\$0.00	\$45.75
3	60	\$33.64	\$8.65	\$6.84	\$0.00	\$49.13
4	65	\$36.44	\$8.65	\$7.41	\$0.00	\$52.50
5	70	\$39.24	\$8.65	\$19.63	\$0.00	\$67.52
6	75	\$42.05	\$8.65	\$20.20	\$0.00	\$70.90
7	80	\$44.85	\$8.65	\$20.77	\$0.00	\$74.27
8	90	\$50.45	\$8.65	\$21.91	\$0.00	\$81.01

Effective Date - 07/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$28.63	\$8.65	\$0.00	\$0.00	\$37.28
2	55	\$31.49	\$8.65	\$6.27	\$0.00	\$46.41
3	60	\$34.36	\$8.65	\$6.84	\$0.00	\$49.85
4	65	\$37.22	\$8.65	\$7.41	\$0.00	\$53.28
5	70	\$40.08	\$8.65	\$19.63	\$0.00	\$68.36
6	75	\$42.95	\$8.65	\$20.20	\$0.00	\$71.80
7	80	\$45.81	\$8.65	\$20.77	\$0.00	\$75.23
8	90	\$51.53	\$8.65	\$21.91	\$0.00	\$82.09

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

DEMO: ADZEMAN <i>LABORERS - ZONE 2</i>	12/01/2022	\$43.33	\$9.10	\$17.57	\$0.00	\$70.00
	06/01/2023	\$44.33	\$9.10	\$17.57	\$0.00	\$71.00
	12/01/2023	\$45.58	\$9.10	\$17.57	\$0.00	\$72.25

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LABORER"						
DEMO: BACKHOE/LOADER/HAMMER OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2022	\$44.33	\$9.10	\$17.57	\$0.00	\$71.00
	06/01/2023	\$45.33	\$9.10	\$17.57	\$0.00	\$72.00
	12/01/2023	\$46.58	\$9.10	\$17.57	\$0.00	\$73.25
For apprentice rates see "Apprentice- LABORER"						
DEMO: BURNERS <i>LABORERS - ZONE 2</i>	12/01/2022	\$44.08	\$9.10	\$17.57	\$0.00	\$70.75
	06/01/2023	\$45.08	\$9.10	\$17.57	\$0.00	\$71.75
	12/01/2023	\$46.33	\$9.10	\$17.57	\$0.00	\$73.00
For apprentice rates see "Apprentice- LABORER"						
DEMO: CONCRETE CUTTER/SAWYER <i>LABORERS - ZONE 2</i>	12/01/2022	\$44.33	\$9.10	\$17.57	\$0.00	\$71.00
	06/01/2023	\$45.33	\$9.10	\$17.57	\$0.00	\$72.00
	12/01/2023	\$46.58	\$9.10	\$17.57	\$0.00	\$73.25
For apprentice rates see "Apprentice- LABORER"						
DEMO: JACKHAMMER OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2022	\$44.08	\$9.10	\$17.57	\$0.00	\$70.75
	06/01/2023	\$45.08	\$9.10	\$17.57	\$0.00	\$71.75
	12/01/2023	\$46.33	\$9.10	\$17.57	\$0.00	\$73.00
For apprentice rates see "Apprentice- LABORER"						
DEMO: WRECKING LABORER <i>LABORERS - ZONE 2</i>	12/01/2022	\$43.33	\$9.10	\$17.57	\$0.00	\$70.00
	06/01/2023	\$44.33	\$9.10	\$17.57	\$0.00	\$71.00
	12/01/2023	\$45.58	\$9.10	\$17.57	\$0.00	\$72.25
For apprentice rates see "Apprentice- LABORER"						
DIRECTIONAL DRILL MACHINE OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.05	\$14.25	\$16.05	\$0.00	\$83.35
	06/01/2023	\$54.29	\$14.25	\$16.05	\$0.00	\$84.59
	12/01/2023	\$55.53	\$14.25	\$16.05	\$0.00	\$85.83
	06/01/2024	\$56.81	\$14.25	\$16.05	\$0.00	\$87.11
	12/01/2024	\$58.25	\$14.25	\$16.05	\$0.00	\$88.55
	06/01/2025	\$59.53	\$14.25	\$16.05	\$0.00	\$89.83
	12/01/2025	\$60.97	\$14.25	\$16.05	\$0.00	\$91.27
	06/01/2026	\$62.25	\$14.25	\$16.05	\$0.00	\$92.55
	12/01/2026	\$63.69	\$14.25	\$16.05	\$0.00	\$93.99
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
DIVER <i>PILE DRIVER LOCAL 56 (ZONE 2)</i>	08/01/2020	\$68.70	\$9.40	\$23.12	\$0.00	\$101.22
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER <i>PILE DRIVER LOCAL 56 (ZONE 2)</i>	08/01/2020	\$49.07	\$9.40	\$23.12	\$0.00	\$81.59
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 2)</i>	08/01/2020	\$73.60	\$9.40	\$23.12	\$0.00	\$106.12
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER/SLURRY (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 2)</i>	08/01/2020	\$103.05	\$9.40	\$23.12	\$0.00	\$135.57
For apprentice rates see "Apprentice- PILE DRIVER"						
DRAWBRIDGE OPERATOR (Construction) <i>DRAWBRIDGE - SEIU LOCAL 888</i>	07/01/2020	\$26.77	\$6.67	\$3.93	\$0.16	\$37.53
ELECTRICIAN <i>ELECTRICIANS LOCAL 223</i>	09/01/2022	\$46.35	\$11.50	\$16.18	\$0.00	\$74.03
	09/01/2023	\$47.87	\$11.75	\$16.86	\$0.00	\$76.48

Classification
Effective Date
Base Wage
Health
Pension
**Supplemental
Unemployment**
Total Rate
Apprentice - ELECTRICIAN - Local 223
Effective Date - 09/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$18.54	\$11.50	\$0.56	\$0.00	\$30.60
2	45	\$20.86	\$11.50	\$0.63	\$0.00	\$32.99
3	50	\$23.18	\$11.50	\$0.70	\$0.00	\$35.38
4	55	\$25.49	\$11.50	\$7.35	\$0.00	\$44.34
5	60	\$27.81	\$11.50	\$7.86	\$0.00	\$47.17
6	65	\$30.13	\$11.50	\$8.37	\$0.00	\$50.00
7	70	\$32.45	\$11.50	\$8.89	\$0.00	\$52.84
8	75	\$34.76	\$11.50	\$9.40	\$0.00	\$55.66

Effective Date - 09/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$19.15	\$11.75	\$0.57	\$0.00	\$31.47
2	45	\$21.54	\$11.75	\$0.65	\$0.00	\$33.94
3	50	\$23.94	\$11.75	\$0.72	\$0.00	\$36.41
4	55	\$26.33	\$11.75	\$7.79	\$0.00	\$45.87
5	60	\$28.72	\$11.75	\$8.31	\$0.00	\$48.78
6	65	\$31.12	\$11.75	\$8.65	\$0.00	\$51.52
7	70	\$33.51	\$11.75	\$9.38	\$0.00	\$54.64
8	75	\$35.90	\$11.75	\$9.90	\$0.00	\$57.55

Notes:
Apprentice to Journeyworker Ratio:2:3***
ELEVATOR CONSTRUCTOR
ELEVATOR CONSTRUCTORS LOCAL 4
01/01/2022
\$65.62
\$16.03
\$20.21
\$0.00
\$101.86
Apprentice - ELEVATOR CONSTRUCTOR - Local 4
Effective Date - 01/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$32.81	\$16.03	\$0.00	\$0.00	\$48.84
2	55	\$36.09	\$16.03	\$20.21	\$0.00	\$72.33
3	65	\$42.65	\$16.03	\$20.21	\$0.00	\$78.89
4	70	\$45.93	\$16.03	\$20.21	\$0.00	\$82.17
5	80	\$52.50	\$16.03	\$20.21	\$0.00	\$88.74

Notes:

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

Apprentice to Journeyworker Ratio:1:1
ELEVATOR CONSTRUCTOR HELPER
ELEVATOR CONSTRUCTORS LOCAL 4
01/01/2022
\$45.93
\$16.03
\$20.21
\$0.00
\$82.17

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"						
FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY)	12/01/2022	\$36.81	\$9.35	\$16.89	\$0.00	\$63.05
LABORERS - ZONE 2 (HEAVY & HIGHWAY)	06/01/2023	\$37.71	\$9.35	\$16.89	\$0.00	\$63.95
	12/01/2023	\$38.61	\$9.35	\$16.89	\$0.00	\$64.85
	06/01/2024	\$39.94	\$9.35	\$16.89	\$0.00	\$66.18
	12/01/2024	\$41.27	\$9.35	\$16.89	\$0.00	\$67.51
	06/01/2025	\$42.66	\$9.35	\$16.89	\$0.00	\$68.90
	12/01/2025	\$44.04	\$9.35	\$16.89	\$0.00	\$70.28
	06/01/2026	\$45.48	\$9.35	\$16.89	\$0.00	\$71.72
	12/01/2026	\$46.92	\$9.35	\$16.89	\$0.00	\$73.16
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
FIELD ENG.INST.PERSON-BLDG,SITE,HVY/HWY	11/05/2022	\$48.67	\$14.25	\$16.05	\$0.00	\$78.97
OPERATING ENGINEERS LOCAL 4	05/01/2023	\$49.91	\$14.25	\$16.05	\$0.00	\$80.21
	11/01/2023	\$51.15	\$14.25	\$16.05	\$0.00	\$81.45
	05/01/2024	\$52.39	\$14.25	\$16.05	\$0.00	\$82.69
	11/01/2024	\$53.68	\$14.25	\$16.05	\$0.00	\$83.98
	05/01/2025	\$55.12	\$14.25	\$16.05	\$0.00	\$85.42
	11/01/2025	\$56.41	\$14.25	\$16.05	\$0.00	\$86.71
	05/01/2026	\$57.85	\$14.25	\$16.05	\$0.00	\$88.15
	11/01/2026	\$59.14	\$14.25	\$16.05	\$0.00	\$89.44
	05/01/2027	\$60.57	\$14.25	\$16.05	\$0.00	\$90.87
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FIELD ENG.PARTY CHIEF-BLDG,SITE,HVY/HWY	11/01/2022	\$50.22	\$14.25	\$16.05	\$0.00	\$80.52
OPERATING ENGINEERS LOCAL 4	05/01/2023	\$51.47	\$14.25	\$16.05	\$0.00	\$81.77
	11/01/2023	\$52.72	\$14.25	\$16.05	\$0.00	\$83.02
	05/01/2024	\$53.97	\$14.25	\$16.05	\$0.00	\$84.27
	11/01/2024	\$55.27	\$14.25	\$16.05	\$0.00	\$85.57
	05/01/2025	\$56.72	\$14.25	\$16.05	\$0.00	\$87.02
	11/01/2025	\$58.02	\$14.25	\$16.05	\$0.00	\$88.32
	05/01/2026	\$59.47	\$14.25	\$16.05	\$0.00	\$89.77
	11/01/2026	\$60.77	\$14.25	\$16.05	\$0.00	\$91.07
	05/01/2027	\$62.22	\$14.25	\$16.05	\$0.00	\$92.52
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FIELD ENG.ROD PERSON-BLDG,SITE,HVY/HWY	11/01/2022	\$24.31	\$14.25	\$16.05	\$0.00	\$54.61
OPERATING ENGINEERS LOCAL 4	05/01/2023	\$25.05	\$14.25	\$16.05	\$0.00	\$55.35
	11/01/2023	\$25.78	\$14.25	\$16.05	\$0.00	\$56.08
	05/01/2024	\$26.51	\$14.25	\$16.05	\$0.00	\$56.81
	11/01/2024	\$27.27	\$14.25	\$16.05	\$0.00	\$57.57
	05/01/2025	\$28.12	\$14.25	\$16.05	\$0.00	\$58.42
	11/01/2025	\$28.88	\$14.25	\$16.05	\$0.00	\$59.18
	05/01/2026	\$29.73	\$14.25	\$16.05	\$0.00	\$60.03
	11/01/2026	\$30.49	\$14.25	\$16.05	\$0.00	\$60.79
	05/01/2027	\$31.34	\$14.25	\$16.05	\$0.00	\$61.64
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FIRE ALARM INSTALLER	09/01/2020	\$43.66	\$10.90	\$14.66	\$0.00	\$69.22
ELECTRICIANS LOCAL 223						
For apprentice rates see "Apprentice- ELECTRICIAN"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING <i>ELECTRICIANS</i>	09/01/2020	\$36.86	\$10.90	\$12.45	\$0.00	\$60.21
<i>LOCAL 223</i> For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"						
FIREMAN (ASST. ENGINEER) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$43.54	\$14.25	\$16.05	\$0.00	\$73.84
	06/01/2023	\$44.56	\$14.25	\$16.05	\$0.00	\$74.86
	12/01/2023	\$45.57	\$14.25	\$16.05	\$0.00	\$75.87
	06/01/2024	\$46.63	\$14.25	\$16.05	\$0.00	\$76.93
	12/01/2024	\$47.81	\$14.25	\$16.05	\$0.00	\$78.11
	06/01/2025	\$48.87	\$14.25	\$16.05	\$0.00	\$79.17
	12/01/2025	\$50.04	\$14.25	\$16.05	\$0.00	\$80.34
	06/01/2026	\$51.10	\$14.25	\$16.05	\$0.00	\$81.40
	12/01/2026	\$52.28	\$14.25	\$16.05	\$0.00	\$82.58
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FLAGGER & SIGNALER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2022	\$25.23	\$9.35	\$16.89	\$0.00	\$51.47
	06/01/2023	\$25.98	\$9.35	\$16.89	\$0.00	\$52.22
	12/01/2023	\$25.98	\$9.35	\$16.89	\$0.00	\$52.22
	06/01/2024	\$27.01	\$9.35	\$16.89	\$0.00	\$53.25
	12/01/2024	\$27.01	\$9.35	\$16.89	\$0.00	\$53.25
	06/01/2025	\$28.09	\$9.35	\$16.89	\$0.00	\$54.33
	12/01/2025	\$28.09	\$9.35	\$16.89	\$0.00	\$54.33
	06/01/2026	\$29.21	\$9.35	\$16.89	\$0.00	\$55.45
	12/01/2026	\$29.21	\$9.35	\$16.89	\$0.00	\$55.45
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
FLOORCOVERER <i>FLOORCOVERERS LOCAL 2168 ZONE II</i>	03/01/2022	\$47.62	\$8.68	\$20.27	\$0.00	\$76.57

Apprentice - FLOORCOVERER - Local 2168 Zone II

Effective Date - 03/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.81	\$8.68	\$1.79	\$0.00	\$34.28
2	55	\$26.19	\$8.68	\$1.79	\$0.00	\$36.66
3	60	\$28.57	\$8.68	\$14.90	\$0.00	\$52.15
4	65	\$30.95	\$8.68	\$14.90	\$0.00	\$54.53
5	70	\$33.33	\$8.68	\$16.69	\$0.00	\$58.70
6	75	\$35.72	\$8.68	\$16.69	\$0.00	\$61.09
7	80	\$38.10	\$8.68	\$18.48	\$0.00	\$65.26
8	85	\$40.48	\$8.68	\$18.48	\$0.00	\$67.64

Notes: Steps are 750 hrs.
% After 10/1/17; 45/45/55/55/70/70/80/80 (1500hr Steps)
Step 1&2 \$31.90/ 3&4 \$38.39/ 5&6 \$58.70/ 7&8 \$65.26

Apprentice to Journeyworker Ratio:1:1

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FORK LIFT/CHERRY PICKER <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.63	\$14.25	\$16.05	\$0.00	\$83.93
	06/01/2023	\$54.88	\$14.25	\$16.05	\$0.00	\$85.18
	12/01/2023	\$56.13	\$14.25	\$16.05	\$0.00	\$86.43
	06/01/2024	\$57.43	\$14.25	\$16.05	\$0.00	\$87.73
	12/01/2024	\$58.88	\$14.25	\$16.05	\$0.00	\$89.18
	06/01/2025	\$60.18	\$14.25	\$16.05	\$0.00	\$90.48
	12/01/2025	\$61.63	\$14.25	\$16.05	\$0.00	\$91.93
	06/01/2026	\$62.93	\$14.25	\$16.05	\$0.00	\$93.23
	12/01/2026	\$64.38	\$14.25	\$16.05	\$0.00	\$94.68
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
GENERATOR/LIGHTING PLANT/HEATERS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$35.08	\$14.25	\$16.05	\$0.00	\$65.38
	06/01/2023	\$35.90	\$14.25	\$16.05	\$0.00	\$66.20
	12/01/2023	\$36.72	\$14.25	\$16.05	\$0.00	\$67.02
	06/01/2024	\$37.57	\$14.25	\$16.05	\$0.00	\$67.87
	12/01/2024	\$38.52	\$14.25	\$16.05	\$0.00	\$68.82
	06/01/2025	\$39.37	\$14.25	\$16.05	\$0.00	\$69.67
	12/01/2025	\$40.32	\$14.25	\$16.05	\$0.00	\$70.62
	06/01/2026	\$41.18	\$14.25	\$16.05	\$0.00	\$71.48
	12/01/2026	\$42.13	\$14.25	\$16.05	\$0.00	\$72.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) <i>GLAZIERS LOCAL 1333</i>	06/01/2020	\$39.18	\$10.80	\$10.45	\$0.00	\$60.43

Apprentice - GLAZIER - Local 1333

Effective Date - 06/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.59	\$10.80	\$1.80	\$0.00	\$32.19
2	56	\$22.04	\$10.80	\$1.80	\$0.00	\$34.64
3	63	\$24.49	\$10.80	\$2.45	\$0.00	\$37.74
4	69	\$26.94	\$10.80	\$2.45	\$0.00	\$40.19
5	75	\$29.39	\$10.80	\$3.15	\$0.00	\$43.34
6	81	\$31.83	\$10.80	\$3.15	\$0.00	\$45.78
7	88	\$34.28	\$10.80	\$10.45	\$0.00	\$55.53
8	94	\$36.73	\$10.80	\$10.45	\$0.00	\$57.98

Notes:

Apprentice to Journeyworker Ratio:1:3

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
HOISTING ENGINEER/CRANES/GRADALLS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.63	\$14.25	\$16.05	\$0.00	\$83.93
	06/01/2023	\$54.88	\$14.25	\$16.05	\$0.00	\$85.18
	12/01/2023	\$56.13	\$14.25	\$16.05	\$0.00	\$86.43
	06/01/2024	\$57.43	\$14.25	\$16.05	\$0.00	\$87.73
	12/01/2024	\$58.88	\$14.25	\$16.05	\$0.00	\$89.18
	06/01/2025	\$60.18	\$14.25	\$16.05	\$0.00	\$90.48
	12/01/2025	\$61.63	\$14.25	\$16.05	\$0.00	\$91.93
	06/01/2026	\$62.93	\$14.25	\$16.05	\$0.00	\$93.23
	12/01/2026	\$64.38	\$14.25	\$16.05	\$0.00	\$94.68

Apprentice - OPERATING ENGINEERS - Local 4

Effective Date - 12/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$29.50	\$14.25	\$0.00	\$0.00	\$43.75
2	60	\$32.18	\$14.25	\$16.05	\$0.00	\$62.48
3	65	\$34.86	\$14.25	\$16.05	\$0.00	\$65.16
4	70	\$37.54	\$14.25	\$16.05	\$0.00	\$67.84
5	75	\$40.22	\$14.25	\$16.05	\$0.00	\$70.52
6	80	\$42.90	\$14.25	\$16.05	\$0.00	\$73.20
7	85	\$45.59	\$14.25	\$16.05	\$0.00	\$75.89
8	90	\$48.27	\$14.25	\$16.05	\$0.00	\$78.57

Effective Date - 06/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$30.18	\$14.25	\$0.00	\$0.00	\$44.43
2	60	\$32.93	\$14.25	\$16.05	\$0.00	\$63.23
3	65	\$35.67	\$14.25	\$16.05	\$0.00	\$65.97
4	70	\$38.42	\$14.25	\$16.05	\$0.00	\$68.72
5	75	\$41.16	\$14.25	\$16.05	\$0.00	\$71.46
6	80	\$43.90	\$14.25	\$16.05	\$0.00	\$74.20
7	85	\$46.65	\$14.25	\$16.05	\$0.00	\$76.95
8	90	\$49.39	\$14.25	\$16.05	\$0.00	\$79.69

Notes:

Apprentice to Journeyworker Ratio:1:6

HVAC (DUCTWORK) <i>SHEETMETAL WORKERS LOCAL 17 - B</i>	04/01/2022	\$38.91	\$13.65	\$17.15	\$2.09	\$71.80
For apprentice rates see "Apprentice- SHEET METAL WORKER"						
HVAC (ELECTRICAL CONTROLS) <i>ELECTRICIANS LOCAL 223</i>	09/01/2020	\$43.66	\$10.90	\$14.66	\$0.00	\$69.22
For apprentice rates see "Apprentice- ELECTRICIAN"						
HVAC (TESTING AND BALANCING - AIR) <i>SHEETMETAL WORKERS LOCAL 17 - B</i>	04/01/2022	\$38.91	\$13.65	\$17.15	\$2.09	\$71.80
For apprentice rates see "Apprentice- SHEET METAL WORKER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
HVAC (TESTING AND BALANCING -WATER) <i>PLUMBERS & PIPEFITTERS LOCAL 51</i>	08/30/2021	\$46.49	\$10.15	\$19.95	\$0.00	\$76.59
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HVAC MECHANIC <i>PLUMBERS & PIPEFITTERS LOCAL 51</i>	08/30/2021	\$46.49	\$10.15	\$19.95	\$0.00	\$76.59
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HYDRAULIC DRILLS <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.91	\$9.10	\$16.64	\$0.00	\$63.65
	06/01/2023	\$38.81	\$9.10	\$16.64	\$0.00	\$64.55
	12/01/2023	\$39.71	\$9.10	\$16.64	\$0.00	\$65.45
For apprentice rates see "Apprentice- LABORER"						
HYDRAULIC DRILLS (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2022	\$37.31	\$9.35	\$16.89	\$0.00	\$63.55
	06/01/2023	\$38.21	\$9.35	\$16.89	\$0.00	\$64.45
	12/01/2023	\$39.11	\$9.35	\$16.89	\$0.00	\$65.35
	06/01/2024	\$40.44	\$9.35	\$16.89	\$0.00	\$66.68
	12/01/2024	\$41.77	\$9.35	\$16.89	\$0.00	\$68.01
	06/01/2025	\$43.16	\$9.35	\$16.89	\$0.00	\$69.40
	12/01/2025	\$44.54	\$9.35	\$16.89	\$0.00	\$70.78
	06/01/2026	\$45.98	\$9.35	\$16.89	\$0.00	\$72.22
	12/01/2026	\$47.42	\$9.35	\$16.89	\$0.00	\$73.66
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
INSULATOR (PIPES & TANKS) <i>HEAT & FROST INSULATORS LOCAL 6 (SOUTHERN MASS)</i>	09/01/2022	\$48.95	\$13.80	\$17.14	\$0.00	\$79.89

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

Effective Date - 09/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.48	\$13.80	\$12.42	\$0.00	\$50.70
2	60	\$29.37	\$13.80	\$13.36	\$0.00	\$56.53
3	70	\$34.27	\$13.80	\$14.31	\$0.00	\$62.38
4	80	\$39.16	\$13.80	\$15.25	\$0.00	\$68.21

Notes:

Steps are 1 year

Apprentice to Journeyworker Ratio:1:4

IRONWORKER/WELDER <i>IRONWORKERS LOCAL 37</i>	03/16/2021	\$42.46	\$7.70	\$17.10	\$0.00	\$67.26
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Apprentice - IRONWORKER - Local 37

Effective Date - 03/16/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	70	\$29.72	\$7.70	\$17.10	\$0.00	\$54.52
2	75	\$31.85	\$7.70	\$17.10	\$0.00	\$56.65
3	80	\$33.97	\$7.70	\$17.10	\$0.00	\$58.77
4	85	\$36.09	\$7.70	\$17.10	\$0.00	\$60.89
5	90	\$38.21	\$7.70	\$17.10	\$0.00	\$63.01
6	95	\$40.34	\$7.70	\$17.10	\$0.00	\$65.14

Notes:

Apprentice to Journeyworker Ratio:1:4

JACKHAMMER & PAVING BREAKER OPERATOR	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
LABORERS - ZONE 2	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95

For apprentice rates see "Apprentice- LABORER"

LABORER	12/01/2022	\$37.16	\$9.10	\$16.64	\$0.00	\$62.90
LABORERS - ZONE 2	06/01/2023	\$38.06	\$9.10	\$16.64	\$0.00	\$63.80
	12/01/2023	\$38.96	\$9.10	\$16.64	\$0.00	\$64.70

Apprentice - LABORER - Zone 2

Effective Date - 12/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$22.30	\$9.10	\$16.64	\$0.00	\$48.04
2	70	\$26.01	\$9.10	\$16.64	\$0.00	\$51.75
3	80	\$29.73	\$9.10	\$16.64	\$0.00	\$55.47
4	90	\$33.44	\$9.10	\$16.64	\$0.00	\$59.18

Effective Date - 06/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$22.84	\$9.10	\$16.64	\$0.00	\$48.58
2	70	\$26.64	\$9.10	\$16.64	\$0.00	\$52.38
3	80	\$30.45	\$9.10	\$16.64	\$0.00	\$56.19
4	90	\$34.25	\$9.10	\$16.64	\$0.00	\$59.99

Notes:

Apprentice to Journeyworker Ratio:1:5

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER (HEAVY & HIGHWAY)	12/01/2022	\$36.56	\$9.35	\$16.89	\$0.00	\$62.80
LABORERS - ZONE 2 (HEAVY & HIGHWAY)	06/01/2023	\$37.46	\$9.35	\$16.89	\$0.00	\$63.70
	12/01/2023	\$38.36	\$9.35	\$16.89	\$0.00	\$64.60
	06/01/2024	\$39.69	\$9.35	\$16.89	\$0.00	\$65.93
	12/01/2024	\$41.02	\$9.35	\$16.89	\$0.00	\$67.26
	06/01/2025	\$42.41	\$9.35	\$16.89	\$0.00	\$68.65
	12/01/2025	\$43.79	\$9.35	\$16.89	\$0.00	\$70.03
	06/01/2026	\$45.23	\$9.35	\$16.89	\$0.00	\$71.47
	12/01/2026	\$46.67	\$9.35	\$16.89	\$0.00	\$72.91

Apprentice - LABORER (Heavy & Highway) - Zone 2

Effective Date - 12/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$21.94	\$9.35	\$16.89	\$0.00	\$48.18
2	70	\$25.59	\$9.35	\$16.89	\$0.00	\$51.83
3	80	\$29.25	\$9.35	\$16.89	\$0.00	\$55.49
4	90	\$32.90	\$9.35	\$16.89	\$0.00	\$59.14

Effective Date - 06/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$22.48	\$9.35	\$16.89	\$0.00	\$48.72
2	70	\$26.22	\$9.35	\$16.89	\$0.00	\$52.46
3	80	\$29.97	\$9.35	\$16.89	\$0.00	\$56.21
4	90	\$33.71	\$9.35	\$16.89	\$0.00	\$59.95

Notes:

Apprentice to Journeyworker Ratio:1:5

LABORER: CARPENTER TENDER	12/01/2022	\$37.16	\$9.10	\$16.64	\$0.00	\$62.90
LABORERS - ZONE 2	06/01/2023	\$38.06	\$9.10	\$16.64	\$0.00	\$63.80
	12/01/2023	\$38.96	\$9.10	\$16.64	\$0.00	\$64.70

For apprentice rates see "Apprentice- LABORER"

LABORER: CEMENT FINISHER TENDER	12/01/2022	\$37.16	\$9.10	\$16.64	\$0.00	\$62.90
LABORERS - ZONE 2	06/01/2023	\$38.06	\$9.10	\$16.64	\$0.00	\$63.80
	12/01/2023	\$38.96	\$9.10	\$16.64	\$0.00	\$64.70

For apprentice rates see "Apprentice- LABORER"

LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER	12/01/2022	\$37.25	\$9.10	\$16.70	\$0.00	\$63.05
LABORERS - ZONE 2	06/01/2023	\$38.15	\$9.10	\$16.70	\$0.00	\$63.95
	12/01/2023	\$39.05	\$9.10	\$16.70	\$0.00	\$64.85

For apprentice rates see "Apprentice- LABORER"

LABORER: MASON TENDER	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
LABORERS - ZONE 2	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER: MASON TENDER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2022	\$36.81	\$9.35	\$16.89	\$0.00	\$63.05
	06/01/2023	\$37.71	\$9.35	\$16.89	\$0.00	\$63.95
	12/01/2023	\$38.61	\$9.35	\$16.89	\$0.00	\$64.85
	06/01/2024	\$39.94	\$9.35	\$16.89	\$0.00	\$66.18
	12/01/2024	\$41.27	\$9.35	\$16.89	\$0.00	\$67.51
	06/01/2025	\$42.66	\$9.35	\$16.89	\$0.00	\$68.90
	12/01/2025	\$44.04	\$9.35	\$16.89	\$0.00	\$70.28
	06/01/2026	\$45.48	\$9.35	\$16.89	\$0.00	\$71.72
	12/01/2026	\$46.92	\$9.35	\$16.89	\$0.00	\$73.16
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
LABORER: MULTI-TRADE TENDER <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.16	\$9.10	\$16.64	\$0.00	\$62.90
	06/01/2023	\$38.06	\$9.10	\$16.64	\$0.00	\$63.80
	12/01/2023	\$38.96	\$9.10	\$16.64	\$0.00	\$64.70
For apprentice rates see "Apprentice- LABORER"						
LABORER: TREE REMOVER <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.16	\$9.10	\$16.64	\$0.00	\$62.90
	06/01/2023	\$38.06	\$9.10	\$16.64	\$0.00	\$63.80
	12/01/2023	\$38.96	\$9.10	\$16.64	\$0.00	\$64.70
This classification applies to the removal of standing trees, and the trimming and removal of branches and limbs when related to public works construction or site clearance incidental to construction . For apprentice rates see "Apprentice- LABORER"						
LASER BEAM OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"						
LASER BEAM OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2022	\$36.81	\$9.35	\$16.89	\$0.00	\$63.05
	06/01/2023	\$37.71	\$9.35	\$16.89	\$0.00	\$63.95
	12/01/2023	\$38.61	\$9.35	\$16.89	\$0.00	\$64.85
	06/01/2024	\$39.94	\$9.35	\$16.89	\$0.00	\$66.18
	12/01/2024	\$41.27	\$9.35	\$16.89	\$0.00	\$67.51
	06/01/2025	\$42.66	\$9.35	\$16.89	\$0.00	\$68.90
	12/01/2025	\$44.04	\$9.35	\$16.89	\$0.00	\$70.28
	06/01/2026	\$45.48	\$9.35	\$16.89	\$0.00	\$71.72
	12/01/2026	\$46.92	\$9.35	\$16.89	\$0.00	\$73.16
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
MARBLE & TILE FINISHERS <i>BRICKLAYERS LOCAL 3 - MARBLE & TILE</i>	02/01/2023	\$46.25	\$11.49	\$20.37	\$0.00	\$78.11
	08/01/2023	\$47.89	\$11.49	\$20.37	\$0.00	\$79.75
	02/01/2024	\$48.89	\$11.49	\$20.37	\$0.00	\$80.75
	08/01/2024	\$50.57	\$11.49	\$20.37	\$0.00	\$82.43
	02/01/2025	\$51.61	\$11.49	\$20.37	\$0.00	\$83.47
	08/01/2025	\$53.33	\$11.49	\$20.37	\$0.00	\$85.19
	02/01/2026	\$54.41	\$11.49	\$20.37	\$0.00	\$86.27
	08/01/2026	\$56.17	\$11.49	\$20.37	\$0.00	\$88.03
	02/01/2027	\$57.29	\$11.49	\$20.37	\$0.00	\$89.15

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

Effective Date - 02/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.13	\$11.49	\$20.37	\$0.00	\$54.99
2	60	\$27.75	\$11.49	\$20.37	\$0.00	\$59.61
3	70	\$32.38	\$11.49	\$20.37	\$0.00	\$64.24
4	80	\$37.00	\$11.49	\$20.37	\$0.00	\$68.86
5	90	\$41.63	\$11.49	\$20.37	\$0.00	\$73.49

Effective Date - 08/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.95	\$11.49	\$20.37	\$0.00	\$55.81
2	60	\$28.73	\$11.49	\$20.37	\$0.00	\$60.59
3	70	\$33.52	\$11.49	\$20.37	\$0.00	\$65.38
4	80	\$38.31	\$11.49	\$20.37	\$0.00	\$70.17
5	90	\$43.10	\$11.49	\$20.37	\$0.00	\$74.96

Notes:

Apprentice to Journeyworker Ratio:1:3

MARBLE MASONS,TILELAYERS & TERRAZZO MECH	02/01/2023	\$60.37	\$11.49	\$22.31	\$0.00	\$94.17
BRICKLAYERS LOCAL 3 - MARBLE & TILE	08/01/2023	\$62.42	\$11.49	\$22.31	\$0.00	\$96.22
	02/01/2024	\$63.67	\$11.49	\$22.31	\$0.00	\$97.47
	08/01/2024	\$65.77	\$11.49	\$22.31	\$0.00	\$99.57
	02/01/2025	\$67.07	\$11.49	\$22.31	\$0.00	\$100.87
	08/01/2025	\$69.22	\$11.49	\$22.31	\$0.00	\$103.02
	02/01/2026	\$70.57	\$11.49	\$22.31	\$0.00	\$104.37
	08/01/2026	\$72.77	\$11.49	\$22.31	\$0.00	\$106.57
	02/01/2027	\$74.17	\$11.49	\$22.31	\$0.00	\$107.97

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

Effective Date - 02/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$30.19	\$11.49	\$22.31	\$0.00	\$63.99
2	60	\$36.22	\$11.49	\$22.31	\$0.00	\$70.02
3	70	\$42.26	\$11.49	\$22.31	\$0.00	\$76.06
4	80	\$48.30	\$11.49	\$22.31	\$0.00	\$82.10
5	90	\$54.33	\$11.49	\$22.31	\$0.00	\$88.13

Effective Date - 08/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$31.21	\$11.49	\$22.31	\$0.00	\$65.01
2	60	\$37.45	\$11.49	\$22.31	\$0.00	\$71.25
3	70	\$43.69	\$11.49	\$22.31	\$0.00	\$77.49
4	80	\$49.94	\$11.49	\$22.31	\$0.00	\$83.74
5	90	\$56.18	\$11.49	\$22.31	\$0.00	\$89.98

Notes:

Apprentice to Journeyworker Ratio:1:5

MECH. SWEEPER OPERATOR (ON CONST. SITES)	12/01/2022	\$53.05	\$14.25	\$16.05	\$0.00	\$83.35
OPERATING ENGINEERS LOCAL 4	06/01/2023	\$54.29	\$14.25	\$16.05	\$0.00	\$84.59
	12/01/2023	\$55.53	\$14.25	\$16.05	\$0.00	\$85.83
	06/01/2024	\$56.81	\$14.25	\$16.05	\$0.00	\$87.11
	12/01/2024	\$58.25	\$14.25	\$16.05	\$0.00	\$88.55
	06/01/2025	\$59.53	\$14.25	\$16.05	\$0.00	\$89.83
	12/01/2025	\$60.97	\$14.25	\$16.05	\$0.00	\$91.27
	06/01/2026	\$62.25	\$14.25	\$16.05	\$0.00	\$92.55
	12/01/2026	\$63.69	\$14.25	\$16.05	\$0.00	\$93.99

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MECHANICS MAINTENANCE	12/01/2022	\$53.05	\$14.25	\$16.05	\$0.00	\$83.35
OPERATING ENGINEERS LOCAL 4	06/01/2023	\$54.29	\$14.25	\$16.05	\$0.00	\$84.59
	12/01/2023	\$55.53	\$14.25	\$16.05	\$0.00	\$85.83
	06/01/2024	\$56.81	\$14.25	\$16.05	\$0.00	\$87.11
	12/01/2024	\$58.25	\$14.25	\$16.05	\$0.00	\$88.55
	06/01/2025	\$59.53	\$14.25	\$16.05	\$0.00	\$89.83
	12/01/2025	\$60.97	\$14.25	\$16.05	\$0.00	\$91.27
	06/01/2026	\$62.25	\$14.25	\$16.05	\$0.00	\$92.55
	12/01/2026	\$63.69	\$14.25	\$16.05	\$0.00	\$93.99

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MILLWRIGHT (Zone 2)	01/02/2023	\$41.92	\$8.58	\$21.57	\$0.00	\$72.07
MILLWRIGHTS LOCAL 1121 - Zone 2						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
Apprentice - MILLWRIGHT - Local 1121 Zone 2						
Effective Date - 01/02/2023						
Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$23.06	\$8.58	\$5.72	\$0.00	\$37.36
2	65	\$27.25	\$8.58	\$17.93	\$0.00	\$53.76
3	75	\$31.44	\$8.58	\$18.98	\$0.00	\$59.00
4	85	\$35.63	\$8.58	\$20.01	\$0.00	\$64.22
Notes: Step 1&2 Appr. indentured after 1/6/2020 receive no pension, but do receive annuity. (Step 1 \$5.72, Step 2 \$6.66) Steps are 2,000 hours						
Apprentice to Journeyworker Ratio:1:4						
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MORTAR MIXER	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
LABORERS - ZONE 2	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"						
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OILER (OTHER THAN TRUCK CRANES,GRADALLS)	12/01/2022	\$24.37	\$14.25	\$16.05	\$0.00	\$54.67
OPERATING ENGINEERS LOCAL 4	06/01/2023	\$24.94	\$14.25	\$16.05	\$0.00	\$55.24
	12/01/2023	\$25.51	\$14.25	\$16.05	\$0.00	\$55.81
	06/01/2024	\$26.11	\$14.25	\$16.05	\$0.00	\$56.41
	12/01/2024	\$26.77	\$14.25	\$16.05	\$0.00	\$57.07
	06/01/2025	\$27.37	\$14.25	\$16.05	\$0.00	\$57.67
	12/01/2025	\$28.03	\$14.25	\$16.05	\$0.00	\$58.33
	06/01/2026	\$28.62	\$14.25	\$16.05	\$0.00	\$58.92
	12/01/2026	\$29.29	\$14.25	\$16.05	\$0.00	\$59.59
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
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OILER (TRUCK CRANES, GRADALLS)	12/01/2022	\$29.57	\$14.25	\$16.05	\$0.00	\$59.87
OPERATING ENGINEERS LOCAL 4	06/01/2023	\$30.27	\$14.25	\$16.05	\$0.00	\$60.57
	12/01/2023	\$30.96	\$14.25	\$16.05	\$0.00	\$61.26
	06/01/2024	\$31.68	\$14.25	\$16.05	\$0.00	\$61.98
	12/01/2024	\$32.48	\$14.25	\$16.05	\$0.00	\$62.78
	06/01/2025	\$33.20	\$14.25	\$16.05	\$0.00	\$63.50
	12/01/2025	\$34.00	\$14.25	\$16.05	\$0.00	\$64.30
	06/01/2026	\$34.72	\$14.25	\$16.05	\$0.00	\$65.02
	12/01/2026	\$35.52	\$14.25	\$16.05	\$0.00	\$65.82
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
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OTHER POWER DRIVEN EQUIPMENT - CLASS II	12/01/2022	\$53.05	\$14.25	\$16.05	\$0.00	\$83.35
OPERATING ENGINEERS LOCAL 4	06/01/2023	\$54.29	\$14.25	\$16.05	\$0.00	\$84.59
	12/01/2023	\$55.53	\$14.25	\$16.05	\$0.00	\$85.83
	06/01/2024	\$56.81	\$14.25	\$16.05	\$0.00	\$87.11
	12/01/2024	\$58.25	\$14.25	\$16.05	\$0.00	\$88.55
	06/01/2025	\$59.53	\$14.25	\$16.05	\$0.00	\$89.83
	12/01/2025	\$60.97	\$14.25	\$16.05	\$0.00	\$91.27
	06/01/2026	\$62.25	\$14.25	\$16.05	\$0.00	\$92.55
	12/01/2026	\$63.69	\$14.25	\$16.05	\$0.00	\$93.99

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PAINTER (BRIDGES/TANKS)	01/01/2023	\$56.06	\$8.65	\$23.05	\$0.00	\$87.76
PAINTERS LOCAL 35 - ZONE 2	07/01/2023	\$57.26	\$8.65	\$23.05	\$0.00	\$88.96
	01/01/2024	\$58.46	\$8.65	\$23.05	\$0.00	\$90.16
	07/01/2024	\$59.66	\$8.65	\$23.05	\$0.00	\$91.36
	01/01/2025	\$60.86	\$8.65	\$23.05	\$0.00	\$92.56

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 01/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$28.03	\$8.65	\$0.00	\$0.00	\$36.68
2	55	\$30.83	\$8.65	\$6.27	\$0.00	\$45.75
3	60	\$33.64	\$8.65	\$6.84	\$0.00	\$49.13
4	65	\$36.44	\$8.65	\$7.41	\$0.00	\$52.50
5	70	\$39.24	\$8.65	\$19.63	\$0.00	\$67.52
6	75	\$42.05	\$8.65	\$20.20	\$0.00	\$70.90
7	80	\$44.85	\$8.65	\$20.77	\$0.00	\$74.27
8	90	\$50.45	\$8.65	\$21.91	\$0.00	\$81.01

Effective Date - 07/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$28.63	\$8.65	\$0.00	\$0.00	\$37.28
2	55	\$31.49	\$8.65	\$6.27	\$0.00	\$46.41
3	60	\$34.36	\$8.65	\$6.84	\$0.00	\$49.85
4	65	\$37.22	\$8.65	\$7.41	\$0.00	\$53.28
5	70	\$40.08	\$8.65	\$19.63	\$0.00	\$68.36
6	75	\$42.95	\$8.65	\$20.20	\$0.00	\$71.80
7	80	\$45.81	\$8.65	\$20.77	\$0.00	\$75.23
8	90	\$51.53	\$8.65	\$21.91	\$0.00	\$82.09

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SPRAY OR SANDBLAST, NEW) *	01/01/2023	\$46.96	\$8.65	\$23.05	\$0.00	\$78.66
* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used.PAINTERS LOCAL 35 - ZONE 2	07/01/2023	\$48.16	\$8.65	\$23.05	\$0.00	\$79.86
	01/01/2024	\$49.36	\$8.65	\$23.05	\$0.00	\$81.06
	07/01/2024	\$50.56	\$8.65	\$23.05	\$0.00	\$82.26
	01/01/2025	\$51.76	\$8.65	\$23.05	\$0.00	\$83.46

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

Effective Date - 01/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.48	\$8.65	\$0.00	\$0.00	\$32.13
2	55	\$25.83	\$8.65	\$6.27	\$0.00	\$40.75
3	60	\$28.18	\$8.65	\$6.84	\$0.00	\$43.67
4	65	\$30.52	\$8.65	\$7.41	\$0.00	\$46.58
5	70	\$32.87	\$8.65	\$19.63	\$0.00	\$61.15
6	75	\$35.22	\$8.65	\$20.20	\$0.00	\$64.07
7	80	\$37.57	\$8.65	\$20.77	\$0.00	\$66.99
8	90	\$42.26	\$8.65	\$21.91	\$0.00	\$72.82

Effective Date - 07/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.08	\$8.65	\$0.00	\$0.00	\$32.73
2	55	\$26.49	\$8.65	\$6.27	\$0.00	\$41.41
3	60	\$28.90	\$8.65	\$6.84	\$0.00	\$44.39
4	65	\$31.30	\$8.65	\$7.41	\$0.00	\$47.36
5	70	\$33.71	\$8.65	\$19.63	\$0.00	\$61.99
6	75	\$36.12	\$8.65	\$20.20	\$0.00	\$64.97
7	80	\$38.53	\$8.65	\$20.77	\$0.00	\$67.95
8	90	\$43.34	\$8.65	\$21.91	\$0.00	\$73.90

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SPRAY OR SANDBLAST, REPAINT)	01/01/2023	\$45.02	\$8.65	\$23.05	\$0.00	\$76.72
PAINTERS LOCAL 35 - ZONE 2	07/01/2023	\$46.22	\$8.65	\$23.05	\$0.00	\$77.92
	01/01/2024	\$47.42	\$8.65	\$23.05	\$0.00	\$79.12
	07/01/2024	\$48.62	\$8.65	\$23.05	\$0.00	\$80.32
	01/01/2025	\$49.82	\$8.65	\$23.05	\$0.00	\$81.52

Apprentice - PAINTER Local 35 Zone 2 - Spray/Sandblast - Repaint**Effective Date - 01/01/2023**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.51	\$8.65	\$0.00	\$0.00	\$31.16
2	55	\$24.76	\$8.65	\$6.27	\$0.00	\$39.68
3	60	\$27.01	\$8.65	\$6.84	\$0.00	\$42.50
4	65	\$29.26	\$8.65	\$7.41	\$0.00	\$45.32
5	70	\$31.51	\$8.65	\$19.63	\$0.00	\$59.79
6	75	\$33.77	\$8.65	\$20.20	\$0.00	\$62.62
7	80	\$36.02	\$8.65	\$20.77	\$0.00	\$65.44
8	90	\$40.52	\$8.65	\$21.91	\$0.00	\$71.08

Effective Date - 07/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.11	\$8.65	\$0.00	\$0.00	\$31.76
2	55	\$25.42	\$8.65	\$6.27	\$0.00	\$40.34
3	60	\$27.73	\$8.65	\$6.84	\$0.00	\$43.22
4	65	\$30.04	\$8.65	\$19.06	\$0.00	\$57.75
5	70	\$32.35	\$8.65	\$19.63	\$0.00	\$60.63
6	75	\$34.67	\$8.65	\$20.20	\$0.00	\$63.52
7	80	\$36.98	\$8.65	\$20.77	\$0.00	\$66.40
8	90	\$41.60	\$8.65	\$21.91	\$0.00	\$72.16

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER / TAPER (BRUSH, NEW) *

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

01/01/2023	\$45.56	\$8.65	\$23.05	\$0.00	\$77.26
07/01/2023	\$46.76	\$8.65	\$23.05	\$0.00	\$78.46
01/01/2024	\$47.96	\$8.65	\$23.05	\$0.00	\$79.66
07/01/2024	\$49.16	\$8.65	\$23.05	\$0.00	\$80.86
01/01/2025	\$50.36	\$8.65	\$23.05	\$0.00	\$82.06

Apprentice - PAINTER - Local 35 Zone 2 - BRUSH NEW

Effective Date - 01/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.78	\$8.65	\$0.00	\$0.00	\$31.43
2	55	\$25.06	\$8.65	\$6.27	\$0.00	\$39.98
3	60	\$27.34	\$8.65	\$6.84	\$0.00	\$42.83
4	65	\$29.61	\$8.65	\$7.41	\$0.00	\$45.67
5	70	\$31.89	\$8.65	\$19.63	\$0.00	\$60.17
6	75	\$34.17	\$8.65	\$20.20	\$0.00	\$63.02
7	80	\$36.45	\$8.65	\$20.77	\$0.00	\$65.87
8	90	\$41.00	\$8.65	\$21.91	\$0.00	\$71.56

Effective Date - 07/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.38	\$8.65	\$0.00	\$0.00	\$32.03
2	55	\$25.72	\$8.65	\$6.27	\$0.00	\$40.64
3	60	\$28.06	\$8.65	\$6.84	\$0.00	\$43.55
4	65	\$30.39	\$8.65	\$7.41	\$0.00	\$46.45
5	70	\$32.73	\$8.65	\$19.63	\$0.00	\$61.01
6	75	\$35.07	\$8.65	\$20.20	\$0.00	\$63.92
7	80	\$37.41	\$8.65	\$20.77	\$0.00	\$66.83
8	90	\$42.08	\$8.65	\$21.91	\$0.00	\$72.64

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER / TAPER (BRUSH, REPAINT)	01/01/2023	\$43.62	\$8.65	\$23.05	\$0.00	\$75.32
PAINTERS LOCAL 35 - ZONE 2	07/01/2023	\$44.82	\$8.65	\$23.05	\$0.00	\$76.52
	01/01/2024	\$46.02	\$8.65	\$23.05	\$0.00	\$77.72
	07/01/2024	\$47.22	\$8.65	\$23.05	\$0.00	\$78.92
	01/01/2025	\$48.42	\$8.65	\$23.05	\$0.00	\$80.12

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
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Apprentice - PAINTER Local 35 Zone 2 - BRUSH REPAINT

Effective Date - 01/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.81	\$8.65	\$0.00	\$0.00	\$30.46
2	55	\$23.99	\$8.65	\$6.27	\$0.00	\$38.91
3	60	\$26.17	\$8.65	\$6.84	\$0.00	\$41.66
4	65	\$28.35	\$8.65	\$7.41	\$0.00	\$44.41
5	70	\$30.53	\$8.65	\$19.63	\$0.00	\$58.81
6	75	\$32.72	\$8.65	\$20.20	\$0.00	\$61.57
7	80	\$34.90	\$8.65	\$20.77	\$0.00	\$64.32
8	90	\$39.26	\$8.65	\$21.91	\$0.00	\$69.82

Effective Date - 07/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.41	\$8.65	\$0.00	\$0.00	\$31.06
2	55	\$24.65	\$8.65	\$6.27	\$0.00	\$39.57
3	60	\$26.89	\$8.65	\$6.84	\$0.00	\$42.38
4	65	\$29.13	\$8.65	\$7.41	\$0.00	\$45.19
5	70	\$31.37	\$8.65	\$19.63	\$0.00	\$59.65
6	75	\$33.62	\$8.65	\$20.20	\$0.00	\$62.47
7	80	\$35.86	\$8.65	\$20.77	\$0.00	\$65.28
8	90	\$40.34	\$8.65	\$21.91	\$0.00	\$70.90

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY)	12/01/2022	\$36.56	\$9.35	\$16.89	\$0.00	\$62.80
LABORERS - ZONE 2 (HEAVY & HIGHWAY)	06/01/2023	\$37.46	\$9.35	\$16.89	\$0.00	\$63.70
	12/01/2023	\$38.36	\$9.35	\$16.89	\$0.00	\$64.60
	06/01/2024	\$39.69	\$9.35	\$16.89	\$0.00	\$65.93
	12/01/2024	\$41.02	\$9.35	\$16.89	\$0.00	\$67.26
	06/01/2025	\$42.41	\$9.35	\$16.89	\$0.00	\$68.65
	12/01/2025	\$43.79	\$9.35	\$16.89	\$0.00	\$70.03
	06/01/2026	\$45.23	\$9.35	\$16.89	\$0.00	\$71.47
	12/01/2026	\$46.67	\$9.35	\$16.89	\$0.00	\$72.91
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
PANEL & PICKUP TRUCKS DRIVER	12/01/2021	\$35.78	\$13.41	\$16.01	\$0.00	\$65.20
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B						
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK)	08/01/2020	\$46.11	\$9.40	\$23.12	\$0.00	\$78.63
PILE DRIVER LOCAL 56 (ZONE 2)						
For apprentice rates see "Apprentice- PILE DRIVER"						
PILE DRIVER	08/01/2020	\$46.11	\$9.40	\$23.12	\$0.00	\$78.63
PILE DRIVER LOCAL 56 (ZONE 2)						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
Apprentice - PILE DRIVER - Local 56 Zone 2						
Effective Date - 08/01/2020						
Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<div>Notes: Apprentice wages shall be no less than the following Steps; (Same as set in Zone 1) 1\$57.06/2\$61.96/3\$66.87/4\$69.32/5\$71.78/6\$71.78/7\$76.68/8\$76.68</div>						
Apprentice to Journeyworker Ratio:1:5						
PIPELAYER		12/01/2022	\$37.41	\$9.10	\$16.64	\$63.15
LABORERS - ZONE 2		06/01/2023	\$38.31	\$9.10	\$16.64	\$64.05
		12/01/2023	\$39.21	\$9.10	\$16.64	\$64.95
For apprentice rates see "Apprentice- LABORER"						
PIPELAYER (HEAVY & HIGHWAY)		12/01/2022	\$36.81	\$9.35	\$16.89	\$63.05
LABORERS - ZONE 2 (HEAVY & HIGHWAY)		06/01/2023	\$37.71	\$9.35	\$16.89	\$63.95
		12/01/2023	\$38.61	\$9.35	\$16.89	\$64.85
		06/01/2024	\$39.94	\$9.35	\$16.89	\$66.18
		12/01/2024	\$41.27	\$9.35	\$16.89	\$67.51
		06/01/2025	\$42.66	\$9.35	\$16.89	\$68.90
		12/01/2025	\$44.04	\$9.35	\$16.89	\$70.28
		06/01/2026	\$45.48	\$9.35	\$16.89	\$71.72
		12/01/2026	\$46.92	\$9.35	\$16.89	\$73.16
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
PLUMBER & PIPEFITTER		08/30/2021	\$46.49	\$10.15	\$19.95	\$76.59
PLUMBERS & PIPEFITTERS LOCAL 51						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2022	\$36.81	\$9.35	\$16.89	\$0.00	\$63.05
	06/01/2023	\$37.71	\$9.35	\$16.89	\$0.00	\$63.95
	12/01/2023	\$38.61	\$9.35	\$16.89	\$0.00	\$64.85
	06/01/2024	\$39.94	\$9.35	\$16.89	\$0.00	\$66.18
	12/01/2024	\$41.27	\$9.35	\$16.89	\$0.00	\$67.51
	06/01/2025	\$42.66	\$9.35	\$16.89	\$0.00	\$68.90
	12/01/2025	\$44.04	\$9.35	\$16.89	\$0.00	\$70.28
	06/01/2026	\$45.48	\$9.35	\$16.89	\$0.00	\$71.72
	12/01/2026	\$46.92	\$9.35	\$16.89	\$0.00	\$73.16
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
POWDERMAN & BLASTER <i>LABORERS - ZONE 2</i>	12/01/2022	\$38.16	\$9.10	\$16.64	\$0.00	\$63.90
	06/01/2023	\$39.06	\$9.10	\$16.64	\$0.00	\$64.80
	12/01/2023	\$39.96	\$9.10	\$16.64	\$0.00	\$65.70
For apprentice rates see "Apprentice- LABORER"						
POWDERMAN & BLASTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2022	\$37.56	\$9.35	\$16.89	\$0.00	\$63.80
	06/01/2023	\$38.46	\$9.35	\$16.89	\$0.00	\$64.70
	12/01/2023	\$39.36	\$9.35	\$16.89	\$0.00	\$65.60
	06/01/2024	\$40.69	\$9.35	\$16.89	\$0.00	\$66.93
	12/01/2024	\$42.02	\$9.35	\$16.89	\$0.00	\$68.26
	06/01/2025	\$43.41	\$9.35	\$16.89	\$0.00	\$69.65
	12/01/2025	\$44.79	\$9.35	\$16.89	\$0.00	\$71.03
	06/01/2026	\$46.23	\$9.35	\$16.89	\$0.00	\$72.47
	12/01/2026	\$47.67	\$9.35	\$16.89	\$0.00	\$73.91
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
POWER SHOVEL/DERRICK/TRENCHING MACHINE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.63	\$14.25	\$16.05	\$0.00	\$83.93
	06/01/2023	\$54.88	\$14.25	\$16.05	\$0.00	\$85.18
	12/01/2023	\$56.13	\$14.25	\$16.05	\$0.00	\$86.43
	06/01/2024	\$57.43	\$14.25	\$16.05	\$0.00	\$87.73
	12/01/2024	\$58.88	\$14.25	\$16.05	\$0.00	\$89.18
	06/01/2025	\$60.18	\$14.25	\$16.05	\$0.00	\$90.48
	12/01/2025	\$61.63	\$14.25	\$16.05	\$0.00	\$91.93
	06/01/2026	\$62.93	\$14.25	\$16.05	\$0.00	\$93.23
	12/01/2026	\$64.38	\$14.25	\$16.05	\$0.00	\$94.68
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (CONCRETE) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.63	\$14.25	\$16.05	\$0.00	\$83.93
	06/01/2023	\$54.88	\$14.25	\$16.05	\$0.00	\$85.18
	12/01/2023	\$56.13	\$14.25	\$16.05	\$0.00	\$86.43
	06/01/2024	\$57.43	\$14.25	\$16.05	\$0.00	\$87.73
	12/01/2024	\$58.88	\$14.25	\$16.05	\$0.00	\$89.18
	06/01/2025	\$60.18	\$14.25	\$16.05	\$0.00	\$90.48
	12/01/2025	\$61.63	\$14.25	\$16.05	\$0.00	\$91.93
	06/01/2026	\$62.93	\$14.25	\$16.05	\$0.00	\$93.23
	12/01/2026	\$64.38	\$14.25	\$16.05	\$0.00	\$94.68
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PUMP OPERATOR (DEWATERING, OTHER) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$35.08	\$14.25	\$16.05	\$0.00	\$65.38
	06/01/2023	\$35.90	\$14.25	\$16.05	\$0.00	\$66.20
	12/01/2023	\$36.72	\$14.25	\$16.05	\$0.00	\$67.02
	06/01/2024	\$37.57	\$14.25	\$16.05	\$0.00	\$67.87
	12/01/2024	\$38.52	\$14.25	\$16.05	\$0.00	\$68.82
	06/01/2025	\$39.37	\$14.25	\$16.05	\$0.00	\$69.67
	12/01/2025	\$40.32	\$14.25	\$16.05	\$0.00	\$70.62
	06/01/2026	\$41.18	\$14.25	\$16.05	\$0.00	\$71.48
	12/01/2026	\$42.13	\$14.25	\$16.05	\$0.00	\$72.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
READY-MIX CONCRETE DRIVER <i>TEAMSTERS 653 - Southeastern Concrete (Weymouth)</i>	08/01/2022	\$24.50	\$13.41	\$6.90	\$0.00	\$44.81
	05/01/2023	\$25.00	\$13.41	\$6.90	\$0.00	\$45.31
	08/01/2023	\$25.00	\$13.91	\$6.90	\$0.00	\$45.81
RECLAIMERS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.05	\$14.25	\$16.05	\$0.00	\$83.35
	06/01/2023	\$54.29	\$14.25	\$16.05	\$0.00	\$84.59
	12/01/2023	\$55.53	\$14.25	\$16.05	\$0.00	\$85.83
	06/01/2024	\$56.81	\$14.25	\$16.05	\$0.00	\$87.11
	12/01/2024	\$58.25	\$14.25	\$16.05	\$0.00	\$88.55
	06/01/2025	\$59.53	\$14.25	\$16.05	\$0.00	\$89.83
	12/01/2025	\$60.97	\$14.25	\$16.05	\$0.00	\$91.27
	06/01/2026	\$62.25	\$14.25	\$16.05	\$0.00	\$92.55
	12/01/2026	\$63.69	\$14.25	\$16.05	\$0.00	\$93.99
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
RIDE-ON MOTORIZED BUGGY OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"						
ROLLER/SPREADER/MULCHING MACHINE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.05	\$14.25	\$16.05	\$0.00	\$83.35
	06/01/2023	\$54.29	\$14.25	\$16.05	\$0.00	\$84.59
	12/01/2023	\$55.53	\$14.25	\$16.05	\$0.00	\$85.83
	06/01/2024	\$56.81	\$14.25	\$16.05	\$0.00	\$87.11
	12/01/2024	\$58.25	\$14.25	\$16.05	\$0.00	\$88.55
	06/01/2025	\$59.53	\$14.25	\$16.05	\$0.00	\$89.83
	12/01/2025	\$60.97	\$14.25	\$16.05	\$0.00	\$91.27
	06/01/2026	\$62.25	\$14.25	\$16.05	\$0.00	\$92.55
	12/01/2026	\$63.69	\$14.25	\$16.05	\$0.00	\$93.99
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
ROOFER (Inc.Roofer Waterproofing &Roofer Damproofg) <i>ROOFERS LOCAL 33</i>	02/01/2023	\$48.53	\$12.78	\$20.20	\$0.00	\$81.51
	08/01/2023	\$50.03	\$12.78	\$20.20	\$0.00	\$83.01
	02/01/2024	\$51.28	\$12.78	\$20.20	\$0.00	\$84.26
	08/01/2024	\$52.78	\$12.78	\$20.20	\$0.00	\$85.76
	02/01/2025	\$54.03	\$12.78	\$20.20	\$0.00	\$87.01
	08/01/2025	\$55.53	\$12.78	\$20.20	\$0.00	\$88.51
	02/01/2026	\$56.78	\$12.78	\$20.20	\$0.00	\$89.76

Classification			Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
Apprentice - ROOFER - Local 33								
Effective Date - 02/01/2023								
Step	percent			Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50			\$24.27	\$12.78	\$5.59	\$0.00	\$42.64
2	60			\$29.12	\$12.78	\$20.20	\$0.00	\$62.10
3	65			\$31.54	\$12.78	\$20.20	\$0.00	\$64.52
4	75			\$36.40	\$12.78	\$20.20	\$0.00	\$69.38
5	85			\$41.25	\$12.78	\$20.20	\$0.00	\$74.23
Effective Date - 08/01/2023								
Step	percent			Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50			\$25.02	\$12.78	\$5.59	\$0.00	\$43.39
2	60			\$30.02	\$12.78	\$20.20	\$0.00	\$63.00
3	65			\$32.52	\$12.78	\$20.20	\$0.00	\$65.50
4	75			\$37.52	\$12.78	\$20.20	\$0.00	\$70.50
5	85			\$42.53	\$12.78	\$20.20	\$0.00	\$75.51
<div>Notes: ** 1:5, 2:6-10, the 1:10; Reroofing: 1:4, then 1:1 Step 1 is 2000 hrs.; Steps 2-5 are 1000 hrs. (Hot Pitch Mechanics' receive \$1.00 hr. above ROOFER)</div>								
Apprentice to Journeyworker Ratio:**								
ROOFER SLATE / TILE / PRECAST CONCRETE			02/01/2023	\$48.78	\$12.78	\$20.20	\$0.00	\$81.76
ROOFERS LOCAL 33			08/01/2023	\$50.28	\$12.78	\$20.20	\$0.00	\$83.26
			02/01/2024	\$51.53	\$12.78	\$20.20	\$0.00	\$84.51
			08/01/2024	\$53.03	\$12.78	\$20.20	\$0.00	\$86.01
			02/01/2025	\$54.28	\$12.78	\$20.20	\$0.00	\$87.26
			08/01/2025	\$55.78	\$12.78	\$20.20	\$0.00	\$88.76
			02/01/2026	\$57.03	\$12.78	\$20.20	\$0.00	\$90.01
For apprentice rates see "Apprentice- ROOFER"								
SHEETMETAL WORKER			04/01/2022	\$37.41	\$13.95	\$17.85	\$2.08	\$71.29
SHEETMETAL WORKERS LOCAL 17 - B								

Apprentice - SHEET METAL WORKER - Local 17-B

Effective Date - 04/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$14.96	\$13.95	\$4.10	\$1.02	\$34.03
2	45	\$16.83	\$13.95	\$4.61	\$1.09	\$36.48
3	50	\$18.71	\$13.95	\$11.26	\$1.35	\$45.27
4	55	\$20.58	\$13.95	\$11.26	\$1.41	\$47.20
5	60	\$22.45	\$13.95	\$14.60	\$1.53	\$52.53
6	65	\$24.32	\$13.95	\$14.88	\$1.59	\$54.74
7	70	\$26.19	\$13.95	\$15.16	\$1.66	\$56.96
8	75	\$28.06	\$13.95	\$15.44	\$1.72	\$59.17
9	80	\$29.93	\$13.95	\$15.72	\$1.79	\$61.39
10	85	\$31.80	\$13.95	\$15.57	\$1.85	\$63.17

Notes:

Apprentice to Journeyworker Ratio:1:3

SPECIALIZED EARTH MOVING EQUIP < 35 TONS TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	12/01/2021	\$36.24	\$13.41	\$16.01	\$0.00	\$65.66
SPECIALIZED EARTH MOVING EQUIP > 35 TONS TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	12/01/2021	\$36.53	\$13.41	\$16.01	\$0.00	\$65.95
SPRINKLER FITTER SPRINKLER FITTERS LOCAL 550 - (Section B) Zone 2	03/01/2023	\$59.58	\$10.90	\$23.20	\$0.00	\$93.68
	10/01/2023	\$61.16	\$10.90	\$23.20	\$0.00	\$95.26
	03/01/2024	\$62.78	\$10.90	\$23.20	\$0.00	\$96.88
	10/01/2024	\$64.40	\$10.90	\$23.20	\$0.00	\$98.50
	03/01/2025	\$66.02	\$10.90	\$23.20	\$0.00	\$100.12

Classification
Effective Date
Base Wage
Health
Pension
**Supplemental
Unemployment**
Total Rate
Apprentice - SPRINKLER FITTER - Local 550 (Section B) Zone 2
Effective Date - 03/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$20.85	\$10.90	\$9.70	\$0.00	\$41.45
2	40	\$23.83	\$10.90	\$9.70	\$0.00	\$44.43
3	45	\$26.81	\$10.90	\$9.70	\$0.00	\$47.41
4	50	\$29.79	\$10.90	\$9.70	\$0.00	\$50.39
5	55	\$32.77	\$10.90	\$9.70	\$0.00	\$53.37
6	60	\$35.75	\$10.90	\$11.20	\$0.00	\$57.85
7	65	\$38.73	\$10.90	\$11.20	\$0.00	\$60.83
8	70	\$41.71	\$10.90	\$11.20	\$0.00	\$63.81
9	75	\$44.69	\$10.90	\$11.20	\$0.00	\$66.79
10	80	\$47.66	\$10.90	\$11.20	\$0.00	\$69.76

Effective Date - 10/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$21.41	\$10.90	\$9.70	\$0.00	\$42.01
2	40	\$24.46	\$10.90	\$9.70	\$0.00	\$45.06
3	45	\$27.52	\$10.90	\$9.70	\$0.00	\$48.12
4	50	\$30.58	\$10.90	\$9.70	\$0.00	\$51.18
5	55	\$33.64	\$10.90	\$9.70	\$0.00	\$54.24
6	60	\$36.70	\$10.90	\$11.20	\$0.00	\$58.80
7	65	\$39.75	\$10.90	\$11.20	\$0.00	\$61.85
8	70	\$42.81	\$10.90	\$11.20	\$0.00	\$64.91
9	75	\$45.87	\$10.90	\$11.20	\$0.00	\$67.97
10	80	\$48.93	\$10.90	\$11.20	\$0.00	\$71.03

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	12/01/2022	\$53.05	\$14.25	\$16.05	\$0.00	\$83.35
OPERATING ENGINEERS LOCAL 4	06/01/2023	\$54.29	\$14.25	\$16.05	\$0.00	\$84.59
	12/01/2023	\$55.53	\$14.25	\$16.05	\$0.00	\$85.83
	06/01/2024	\$56.81	\$14.25	\$16.05	\$0.00	\$87.11
	12/01/2024	\$58.25	\$14.25	\$16.05	\$0.00	\$88.55
	06/01/2025	\$59.53	\$14.25	\$16.05	\$0.00	\$89.83
	12/01/2025	\$60.97	\$14.25	\$16.05	\$0.00	\$91.27
	06/01/2026	\$62.25	\$14.25	\$16.05	\$0.00	\$92.55
	12/01/2026	\$63.69	\$14.25	\$16.05	\$0.00	\$93.99

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>	12/01/2022	\$53.05	\$14.25	\$16.05	\$0.00	\$83.35
	06/01/2023	\$54.29	\$14.25	\$16.05	\$0.00	\$84.59
	12/01/2023	\$55.53	\$14.25	\$16.05	\$0.00	\$85.83
	06/01/2024	\$56.81	\$14.25	\$16.05	\$0.00	\$87.11
	12/01/2024	\$58.25	\$14.25	\$16.05	\$0.00	\$88.55
	06/01/2025	\$59.53	\$14.25	\$16.05	\$0.00	\$89.83
	12/01/2025	\$60.97	\$14.25	\$16.05	\$0.00	\$91.27
	06/01/2026	\$62.25	\$14.25	\$16.05	\$0.00	\$92.55
	12/01/2026	\$63.69	\$14.25	\$16.05	\$0.00	\$93.99

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

TELECOMMUNICATION TECHNICIAN <i>ELECTRICIANS LOCAL 223</i>	09/01/2022	\$38.16	\$11.25	\$13.31	\$0.00	\$62.72
	09/01/2023	\$39.40	\$11.50	\$13.91	\$0.00	\$64.81
	09/01/2024	\$40.69	\$11.75	\$14.53	\$0.00	\$66.97

Apprentice - TELECOMMUNICATION TECHNICIAN - Local 223

Effective Date - 09/01/2022

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

Notes: See Electrician Apprentice Wages

Telecom Apprentice Wages shall be the same as the Electrician Apprentice Wages

Apprentice to Journeyworker Ratio:2:3***

TERRAZZO FINISHERS <i>BRICKLAYERS LOCAL 3 - MARBLE & TILE</i>	02/01/2023	\$59.29	\$11.49	\$22.34	\$0.00	\$93.12
	08/01/2023	\$61.34	\$11.49	\$22.34	\$0.00	\$95.17
	02/01/2024	\$62.59	\$11.49	\$22.34	\$0.00	\$96.42
	08/01/2024	\$64.69	\$11.49	\$22.34	\$0.00	\$98.52
	02/01/2025	\$65.99	\$11.49	\$22.34	\$0.00	\$99.82
	08/01/2025	\$68.14	\$11.49	\$22.34	\$0.00	\$101.97
	02/01/2026	\$69.49	\$11.49	\$22.34	\$0.00	\$103.32
	08/01/2026	\$71.69	\$11.49	\$22.34	\$0.00	\$105.52
	02/01/2027	\$73.09	\$11.49	\$22.34	\$0.00	\$106.92

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
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Apprentice - TERRAZZO FINISHER - Local 3 Marble & Tile

Effective Date - 02/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$29.65	\$11.49	\$22.34	\$0.00	\$63.48
2	60	\$35.57	\$11.49	\$22.34	\$0.00	\$69.40
3	70	\$41.50	\$11.49	\$22.34	\$0.00	\$75.33
4	80	\$47.43	\$11.49	\$22.34	\$0.00	\$81.26
5	90	\$53.36	\$11.49	\$22.34	\$0.00	\$87.19

Effective Date - 08/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$30.67	\$11.49	\$22.34	\$0.00	\$64.50
2	60	\$36.80	\$11.49	\$22.34	\$0.00	\$70.63
3	70	\$42.94	\$11.49	\$22.34	\$0.00	\$76.77
4	80	\$49.07	\$11.49	\$22.34	\$0.00	\$82.90
5	90	\$55.21	\$11.49	\$22.34	\$0.00	\$89.04

Notes:

Apprentice to Journeyworker Ratio:1:3

TEST BORING DRILLER	12/01/2022	\$46.58	\$9.35	\$17.97	\$0.00	\$73.90
LABORERS - FOUNDATION AND MARINE	06/01/2023	\$47.58	\$9.35	\$17.97	\$0.00	\$74.90
	12/01/2023	\$48.83	\$9.35	\$17.97	\$0.00	\$76.15
	06/01/2024	\$50.31	\$9.35	\$17.97	\$0.00	\$77.63
	12/01/2024	\$51.78	\$9.35	\$17.97	\$0.00	\$79.10
	06/01/2025	\$53.28	\$9.35	\$17.97	\$0.00	\$80.60
	12/01/2025	\$54.78	\$9.35	\$17.97	\$0.00	\$82.10
	06/01/2026	\$56.33	\$9.35	\$17.97	\$0.00	\$83.65
	12/01/2026	\$57.83	\$9.35	\$17.97	\$0.00	\$85.15
For apprentice rates see "Apprentice- LABORER"						
TEST BORING DRILLER HELPER	12/01/2022	\$42.70	\$9.35	\$17.97	\$0.00	\$70.02
LABORERS - FOUNDATION AND MARINE	06/01/2023	\$43.70	\$9.35	\$17.97	\$0.00	\$71.02
	12/01/2023	\$44.95	\$9.35	\$17.97	\$0.00	\$72.27
	06/01/2024	\$46.43	\$9.35	\$17.97	\$0.00	\$73.75
	12/01/2024	\$47.90	\$9.35	\$17.97	\$0.00	\$75.22
	06/01/2025	\$49.40	\$9.35	\$17.97	\$0.00	\$76.72
	12/01/2025	\$50.90	\$9.35	\$17.97	\$0.00	\$78.22
	06/01/2026	\$52.45	\$9.35	\$17.97	\$0.00	\$79.77
	12/01/2026	\$53.95	\$9.35	\$17.97	\$0.00	\$81.27
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TEST BORING LABORER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2022	\$42.58	\$9.35	\$17.97	\$0.00	\$69.90
	06/01/2023	\$43.58	\$9.35	\$17.97	\$0.00	\$70.90
	12/01/2023	\$44.83	\$9.35	\$17.97	\$0.00	\$72.15
	06/01/2024	\$46.31	\$9.35	\$17.97	\$0.00	\$73.63
	12/01/2024	\$47.78	\$9.35	\$17.97	\$0.00	\$75.10
	06/01/2025	\$49.28	\$9.35	\$17.97	\$0.00	\$76.60
	12/01/2025	\$50.78	\$9.35	\$17.97	\$0.00	\$78.10
	06/01/2026	\$52.33	\$9.35	\$17.97	\$0.00	\$79.65
	12/01/2026	\$53.83	\$9.35	\$17.97	\$0.00	\$81.15
For apprentice rates see "Apprentice- LABORER"						
TRACTORS/PORTABLE STEAM GENERATORS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.05	\$14.25	\$16.05	\$0.00	\$83.35
	06/01/2023	\$54.29	\$14.25	\$16.05	\$0.00	\$84.59
	12/01/2023	\$55.53	\$14.25	\$16.05	\$0.00	\$85.83
	06/01/2024	\$56.81	\$14.25	\$16.05	\$0.00	\$87.11
	12/01/2024	\$58.25	\$14.25	\$16.05	\$0.00	\$88.55
	06/01/2025	\$59.53	\$14.25	\$16.05	\$0.00	\$89.83
	12/01/2025	\$60.97	\$14.25	\$16.05	\$0.00	\$91.27
	06/01/2026	\$62.25	\$14.25	\$16.05	\$0.00	\$92.55
	12/01/2026	\$63.69	\$14.25	\$16.05	\$0.00	\$93.99
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TRAILERS FOR EARTH MOVING EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2021	\$36.82	\$13.41	\$16.01	\$0.00	\$66.24
TUNNEL WORK - COMPRESSED AIR <i>LABORERS (COMPRESSED AIR)</i>	12/01/2022	\$54.81	\$9.35	\$18.42	\$0.00	\$82.58
	06/01/2023	\$55.81	\$9.35	\$18.42	\$0.00	\$83.58
	12/01/2023	\$57.06	\$9.35	\$18.42	\$0.00	\$84.83
	06/01/2024	\$58.54	\$9.35	\$18.42	\$0.00	\$86.31
	12/01/2024	\$60.01	\$9.35	\$18.42	\$0.00	\$87.78
	06/01/2025	\$61.51	\$9.35	\$18.42	\$0.00	\$89.28
	12/01/2025	\$63.01	\$9.35	\$18.42	\$0.00	\$90.78
	06/01/2026	\$64.56	\$9.35	\$18.42	\$0.00	\$92.33
	12/01/2026	\$66.06	\$9.35	\$18.42	\$0.00	\$93.83
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE) <i>LABORERS (COMPRESSED AIR)</i>	12/01/2022	\$56.81	\$9.35	\$18.42	\$0.00	\$84.58
	06/01/2023	\$57.81	\$9.35	\$18.42	\$0.00	\$85.58
	12/01/2023	\$59.06	\$9.35	\$18.42	\$0.00	\$86.83
	06/01/2024	\$60.54	\$9.35	\$18.42	\$0.00	\$88.31
	12/01/2024	\$62.01	\$9.35	\$18.42	\$0.00	\$89.78
	06/01/2025	\$63.51	\$9.35	\$18.42	\$0.00	\$91.28
	12/01/2025	\$65.01	\$9.35	\$18.42	\$0.00	\$92.78
	06/01/2026	\$66.56	\$9.35	\$18.42	\$0.00	\$94.33
	12/01/2026	\$68.06	\$9.35	\$18.42	\$0.00	\$95.83
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TUNNEL WORK - FREE AIR <i>LABORERS (FREE AIR TUNNEL)</i>	12/01/2022	\$46.88	\$9.35	\$18.42	\$0.00	\$74.65
	06/01/2023	\$47.88	\$9.35	\$18.42	\$0.00	\$75.65
	12/01/2023	\$49.13	\$9.35	\$18.42	\$0.00	\$76.90
	06/01/2024	\$50.61	\$9.35	\$18.42	\$0.00	\$78.38
	12/01/2024	\$52.08	\$9.35	\$18.42	\$0.00	\$79.85
	06/01/2025	\$53.58	\$9.35	\$18.42	\$0.00	\$81.35
	12/01/2025	\$55.08	\$9.35	\$18.42	\$0.00	\$82.85
	06/01/2026	\$56.63	\$9.35	\$18.42	\$0.00	\$84.40
	12/01/2026	\$58.13	\$9.35	\$18.42	\$0.00	\$85.90
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR (HAZ. WASTE) <i>LABORERS (FREE AIR TUNNEL)</i>	12/01/2022	\$48.88	\$9.35	\$18.42	\$0.00	\$76.65
	06/01/2023	\$49.88	\$9.35	\$18.42	\$0.00	\$77.65
	12/01/2023	\$51.13	\$9.35	\$18.42	\$0.00	\$78.90
	06/01/2024	\$52.61	\$9.35	\$18.42	\$0.00	\$80.38
	12/01/2024	\$54.08	\$9.35	\$18.42	\$0.00	\$81.85
	06/01/2025	\$55.58	\$9.35	\$18.42	\$0.00	\$83.35
	12/01/2025	\$57.08	\$9.35	\$18.42	\$0.00	\$84.85
	06/01/2026	\$58.63	\$9.35	\$18.42	\$0.00	\$86.40
	12/01/2026	\$60.13	\$9.35	\$18.42	\$0.00	\$87.90
For apprentice rates see "Apprentice- LABORER"						
VAC-HAUL <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2021	\$36.24	\$13.41	\$16.01	\$0.00	\$65.66
WAGON DRILL OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"						
WAGON DRILL OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2022	\$36.81	\$9.35	\$16.89	\$0.00	\$63.05
	06/01/2023	\$37.71	\$9.35	\$16.89	\$0.00	\$63.95
	12/01/2023	\$38.61	\$9.35	\$16.89	\$0.00	\$64.85
	06/01/2024	\$39.94	\$9.35	\$16.89	\$0.00	\$66.18
	12/01/2024	\$41.27	\$9.35	\$16.89	\$0.00	\$67.51
	06/01/2025	\$42.66	\$9.35	\$16.89	\$0.00	\$68.90
	12/01/2025	\$44.04	\$9.35	\$16.89	\$0.00	\$70.28
	06/01/2026	\$45.48	\$9.35	\$16.89	\$0.00	\$71.72
	12/01/2026	\$46.92	\$9.35	\$16.89	\$0.00	\$73.16
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
WASTE WATER PUMP OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2022	\$53.63	\$14.25	\$16.05	\$0.00	\$83.93
	06/01/2023	\$54.88	\$14.25	\$16.05	\$0.00	\$85.18
	12/01/2023	\$56.13	\$14.25	\$16.05	\$0.00	\$86.43
	06/01/2024	\$57.43	\$14.25	\$16.05	\$0.00	\$87.73
	12/01/2024	\$58.88	\$14.25	\$16.05	\$0.00	\$89.18
	06/01/2025	\$60.18	\$14.25	\$16.05	\$0.00	\$90.48
	12/01/2025	\$61.63	\$14.25	\$16.05	\$0.00	\$91.93
	06/01/2026	\$62.93	\$14.25	\$16.05	\$0.00	\$93.23
	12/01/2026	\$64.38	\$14.25	\$16.05	\$0.00	\$94.68
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
WATER METER INSTALLER <i>PLUMBERS & PIPEFITTERS LOCAL 51</i>	08/30/2021	\$46.49	\$10.15	\$19.95	\$0.00	\$76.59
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"						

Additional Apprentices 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.