

TOWN OF SHARON

MASSACHUSETTS



M.G.L. Chapter 30§39 Bid
INVITATION FOR BIDS

FORMS FOR BID
AGREEMENT AND BONDS
AND SPECIFICATIONS

FOR
**LOCAL BOTTLENECK REDUCTION
NORTH MAIN STREET & SOUTH MAIN STREET
SIGNAL IMPROVEMENTS
JANUARY 2024**

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**TOWN OF SHARON
DEPARTMENT OF PUBLIC WORKS
NOTICE TO BIDDERS**

**LOCAL BOTTLENECK REDUCTION – NORTH MAIN STREET & SOUTH MAIN STREET
SIGNAL IMPROVEMENTS**

Sealed Bids under M.G.L. c. 30§39 for the **Local Bottleneck Reduction – North Main Street & South Main Street Signal Improvements** will be received by the Department of Public Works, 217 Rear South Main Street, Sharon, Massachusetts 02067, on behalf of the Sharon Select Board, Town of Sharon, during business hours 8:00 AM to 5:00 PM, until the time of the bid opening. One (1) physical copy is to be mailed or hand-delivered to the Sharon Department of Public Works at 217R S Main St, Sharon, MA 02067, and addressed to Peter O’Cain, Town Engineer. Bid envelopes should be marked as "Contract 2024-01 Local Bottleneck Reduction – North Main Street & Sout Main Street Signal Improvements".

The bid opening will be held virtually on Wednesday, January 31st at 2:30 PM EST, using the following link:

Online

www.zoom.us

Meeting ID

661-933-1292

Password

02067

<https://zoom.us/j/6619331292?pwd=akFmVlA3RklXeEhyamlHeG5tRVdzZz09>

BY PHONE

1-312-626-6799

1-929-205-6099

1-253-215-8782

1-301-715-8592

1-346-248-7799

1-669-900-6833

To mute or unmute yourself, Press *6

DATE BID AVAILABLE: January 4th, 2024, at 8:00 AM.

DATE OF BID OPENING: January 31st, 2024 TIME: 2:30 PM.

SCOPE OF WORK COMPLETION DATE: December 31st, 2024

Note: Due to possible material delivery challenges currently existing in the market, the completion date may be altered, if deemed necessary by the Sharon DPW, and agreed to by the winning bidder and the DPW. Delays cannot alter the bid amount submitted by the winning bidder.

CONTACT INFORMATION

Peter O’Cain, Town Engineer, (781) 784-1525, ext. 2316.

Kevin Davis, Assistant Town Engineer, (781) 784-1525, ext. 2317

PART 1 - GENERAL

The location, general characteristics and principal details of the work are indicated on the set of accompanying drawings, titled “North Main Street & South Main Street Signal Improvements, Sharon, MA”. The successful bidder shall furnish all materials, labor, tools, and equipments, and perform all work required for the completion of this Contract.

The Bid Guarantee may be in the form of a Bid Bond or Bank Cashier Check made payable to the Town of Sharon.

There is no charge for the initial electronic copy of the Official Bid Document.

Contractors intending to bid on this project must first be prequalified by MassDOT for the work specified herein.

An award will not be made to a bidder not adequately equipped to undertake and complete all work required for the completion of this Contract. Bids, which do not include a properly completed "Affidavit" of Non-Collusion, etc., will be declared informal. The right to waive any informality and reject bids is reserved.

PART 2 – INSTRUCTION TO BIDDERS

Sealed Bids for **Local Bottleneck Reduction – North Main Street & South Main Street Signal Improvements** for the Town of Sharon, Massachusetts, acting by its Select Board (hereinafter called the Owner,) prepared per these instructions and other provisions of the contract documents, will be received by the Owner at the Office of the Department of Public Works, 217 Rear South Main Street, Sharon MA 02067, until **2:30 PM (DPW clock time), on January 31st, 2024**. The bids will then be publicly opened and read aloud virtually on Zoom.

The work is estimated to cost approximately \$421,738.

The Town of Sharon is exempt from payment of the Massachusetts Sales Tax. Therefore, Bidders shall make no allowance for said Sales Tax in the prices bid.

Bidders are encouraged to contact the Engineering Department to register as a bid document holder to be alerted as to addenda as they are issued automatically. The Offeror is responsible for monitoring the bid portal on the Town's website for any updates, addenda, etc., regarding that specific solicitation.

All Bids shall be made as follows:

1. Fill in the total unit bid prices and total bid price in the Schedule of Prices in the Bid.
2. Fill in the Number of Addenda, if any. (See Pages 8 and 9).
3. Fill in the other blank spaces in the Bid, as applicable.
4. Submit, as the Bid, all Contract Documents intact, without changing any of the text, enclosed in a sealed envelope bearing the name and address of the bidder, and endorsed "**Local Bottleneck Reduction – North Main Street & South Main Street Signal Improvements**"
5. Submit a bid bond, cash, certified check, treasurer's check, or cashier's check to the Town of Sharon as a bid deposit at 5% of the total bid price.
6. Fill in blank spaces and sign a certificate of non-collusion.

Checks shall be made payable to the "Town of Sharon." The bid deposit shall not be enclosed in the sealed envelope containing the Bid.

Checks will be returned to all except the three lowest formal Bidders within five days (Saturdays, Sundays, and legal holidays excluded) after the opening of the Bids. The remaining deposits will be returned to the three lowest Bidders within 48 hours after awarding the contract. If no Contract is awarded within 30 days (not including Saturday, Sunday, and legal holidays) after the date of opening bids, then upon demand of the bidder, at any time thereafter, so long as they have not been notified of the acceptance of their Bid, the bidder's deposit shall be returned. The successful bidder will be notified by registered mail of the acceptance of their Bid.

If a bid bond is used as bid security, it shall be prepared in the Form of Bid Bond attached hereto, each duly executed by the Bidder as Principal and having as security thereon a surety company approved by the Owner. A copy of the Form of Bid Bond will be furnished to the bidder by the engineer upon request.

A 50% Labor and Materials Payment Bond by a company satisfactory to the Owner of the Estimated total Contract Price recorded in the Bid Section of the Contract as executed will be required from the successful bidder for the faithful performance of the contract and as security for payment of all persons performing labor and furnishing materials in connection with this contract. The bond shall conform to the forms attached to the contract documents.

No Bidder may withdraw his Bid for thirty (30) days (not including Saturdays, Sundays, and legal holidays) after the date set for the opening of the Bids.

The requirements for the project are stated in the Instructions to Bidders, Bid, Agreement, Bonds, General Conditions, Supplementary Conditions, Specifications, and the Drawings.

In the case of each Bid, the Owner reserves the right to satisfy itself as to the bidder's complete responsibility. Toward this objective, every bidder must furnish all information requested in the Bid.

Notice of the acceptance of their Bid will be given to the successful bidder by the Owner by posting a registered letter to the bidder's address stated in said Bid. If within five (5) days, Saturdays, Sundays, and legal holidays excluded, immediately after the receipt of the notice, the successful bidder shall fail to deliver his bonds properly executed and his contract duly signed, in consideration of such failure, the Bid and acceptance, at the option of the Owner, may become null and void. The bid security accompanying the Bid shall become the Owner's property, who may proceed to accept another Bid.

The Contractor shall start work under this contract and continue it to completion with all practical dispatch and regularity; the work shall be commenced and completed within the times required by the contract.

One Hundred Dollars (\$100.00) is agreed upon as liquidated damages. The Awarded Bidder shall pay it to the Owner for each and every calendar day in which any work of the contract is incomplete after the times stipulated for such completion (unless the Owner and the winning bidder agreed to an extension), and the prices bid shall be fixed regarding this provision. Deductions for liquidated damages will be made from payments owed to the Contractor.

The Bidder shall keep themselves informed fully of and comply with all Laws, Ordinances, and Regulations of the Federal, State, or Municipal Governments that may be enforced during the life of the contract in any manner affecting their employed involved with the project.

Any request from a prospective Bidder for the interpretation of the meaning of any Drawings, Specifications, or other Contract Documents shall be made in writing to Peter O'Cain, Town Engineer, 217 Rear South Main Street, Sharon, MA. 02067. The request to be considered must be received at least seven (7) days before the bid deadline; the Superintendent of Public Works or Town Engineer will make interpretations as requested. All interpretations will be made in the form of written addenda to the contract documents, which addenda will become a part of the contract. No later than three (3) days before the date fixed for the opening of the bids, the addenda will be emailed to all persons who advertised for the bid. Failure of any bidder to receive any such addenda shall not relieve any bidder from any obligation under their bid as submitted. Any addendum emailed to bidders must be acknowledged, in writing, by the individual bidders as being received at the time the email is received. The bidder shall also note the received addendum on pages 7, 8, and 9 of the bid when submitting it to the Owner.

At the date fixed for the opening of bids, it will be presumed that each bidder has examined the work to be completed under the contract, has satisfied the actual conditions, requirements, and quantities of components, and has read and become thoroughly familiar with the Contract Documents, including the Drawings, and all Addenda to them, if any. Bidders are encouraged to contact the Engineering Department to register as a bid document holder to automatically be alerted as to addenda as they are issued. It is the responsibility of the Offeror to also monitor the bid portal on the Town's website for any updates, addenda, etc. regarding that specific solicitation.

The failure or omission of any Bidder to receive or examine any form, instrument, or document shall not relieve the bidder of any obligation regarding their bid.

The Owner reserves the right to waive any informalities in the bids and reject any or all bids if it is in the public interest. The contract will be awarded to the lowest responsible and eligible bidder possessing the skill, ability, and integrity necessary to the faithful completion of work required.

Massachusetts General Laws, Chapter 30, Sections 39F, 39G, 39N, 39O, 39P, and 39R are quoted in the General and Supplementary Conditions.

Town of Sharon, Massachusetts

By Eric R. Hooper
Superintendent of the Department of Public Works

_____ Eric R. Hooper

BID

To the Town of Sharon, Massachusetts, acting by its Select Board, hereinafter called the Owner:

A. The undersigned proposes to furnish materials and complete the work required for the **Local Bottleneck Reduction – North Main Street & South Main Street Signal Improvements**, per the accompanying Drawings and Specifications, the Instructions to Bidders, and other Contract Documents bound herewith prepared by the Engineering Division Town of Sharon for the Estimated Total Contract Price specified in the Schedule of provided for in the contract.

The undersigned declares: that the only persons interested in this bid as principals are named herein as such; that no official of the Owner and no person acting for or employed by the Owner is interested directly or indirectly in this bid or in any contract which may be made under it, or in any expected profits to arise therefrom; that this Bid is made in good faith, without fraud, collusion or connection with any other person bidding or refraining from bidding for the same work; that they have examined carefully the said instructions and all other documents bound herewith, and the Drawing relating to the contract covered by this bid and hereby makes them part of this Bid; that they have informed themselves fully regarding all conditions of the work and the place where it is to be done; and that they have made their examination and estimates of cost and from them makes this bid.

The undersigned proposes and agrees that, if within thirty (30) days (Saturdays, Sundays and legal holidays excluded) after the date named in the Instructions to Bidders as that for submitting this Bid to the Owner, notice that this Bid has been accepted by the Owner shall be mailed to him/her at the business address given herein, he/she will, on some one of the five (5) days, (Saturdays Sundays and legal holidays excluded), immediately following receipt of such Notice of Acceptance of this Bid, appear at the office of the Town Engineer and deliver to the properly accredited representative of the Owner a contract, together with Performance Bond and Labor and Material Payment Bond furnished by a company satisfactory to the Owner, which contract and bonds shall be executed in the forms annexed hereto, and which contract shall provide that the Owner, as full compensation for doing and completing the work of carrying out the requirements of the Agreement, General Conditions, supplementary Conditions, Specifications and Drawings, shall pay the Contractor the unit prices and lump sums which they have recorded in the Bid, or such unit prices and lump sums increased or decreased in a manner as provided for in the contract.

The undersigned also agrees that the bid security which, as called for in the Instructions to Bidders, accompanies this bid shall become the property of the Owner as compensation for damage suffered by said Owner should the undersigned fail to execute the said contract and bonds if notified, as specified above, that this Bid has been accepted. But if the Owner does not accept this Bid, as defined above, within (30) days of the date set for the submission of the bid (not including Saturdays, Sundays, and legal holidays), or if the undersigned receives the Notice of Acceptance and they comply with the requirements as to the execution of the contract and bonds, then the bid security referred to will be returned to them.

The undersigned understands that it is the intention of the Owner not to award a contract for this work under this or any other bid if the bidder cannot furnish satisfactory evidence that they have the ability and experience to perform this class of work and that they have sufficient capital and equipment to enable them to prosecute the work successfully and to complete it within the time named in the contract, and that the Owner reserves the right to reject this or any other Bid or to award the contract as is deemed to be to the best interest of the Owner. The undersigned understands further that the quantities given in the Schedule of Prices in this Bid are approximate only and are given as a basis for the comparison of Bids, that the Owner does not agree, expressly or by implication, that the actual amount of work will correspond even approximately therewith but reserves the right to increase or decrease the amount of any item of the work listed as may be found desirable or necessary during the carrying out of the construction work; and that the unit prices quoted in the Schedule of Prices shall apply without change to such variation in the quantity of each or all items.

The undersigned further agrees that they will, upon request, furnish in confidence such information as will enable the Owner to judge the financial responsibility of themselves and their proposed Subcontractors.

The Contractor shall give to the Owner, as liquidated damages, for each calendar day lost by the Contractor in the completion of the contract after the time herein stipulated, the sum of One Hundred Dollars (\$100) per day.

B. This Bid includes Addenda numbered _____.

C. The Schedule of Prices referred to herein is as follows:
(SEE SUMMARY SHEET).

SUMMARY SHEET

LOCAL BOTTLENECK REDUCTION – NORTH MAIN STREET & SOUTH MAIN STREET

SIGNAL IMPROVEMENTS

Inspect the area and consider all possible issues before calculating the bid price. The Town of Sharon will accept no responsibility for low bids that don't cover all costs to the Contractor delineated in this bid document.

ITEM NO.	BID PRICE ENTERED IN BOTH WORDS AND FIGURES	ESTIMATED QUANTITY	TOTAL PRICE (UNIT PRICE X QUANTITY)
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SECTION 400. SUBBASE, BASE COURSES, SHOULDERS, PAVEMENTS AND BERMS

415.1.	Pavement Standard Milling _____dollars and _____cents (\$ _____)	2,350 S.Y.	\$ _____
450.23.	Superpave Surface Course 12.5 - (SSC-12.5) _____dollars and _____cents (\$ _____)	260 TON	\$ _____
452..	Asphalt Emulsion for Tack Coat _____dollars and _____cents (\$ _____)	210 GAL	\$ _____

SECTION 800. TRAFFIC CONTROL DEVICES

816.01.	Traffic Signal Reconstruction Location No. 1 _____dollars and _____cents (\$ _____)	1 L.S.	\$ _____
816.02.	Traffic Signal Reconstruction Location No. 2 _____dollars and _____cents (\$ _____)	1 L.S.	\$ _____
816.03.	Traffic Signal Reconstruction Location No. 3 _____dollars and _____cents (\$ _____)	1 L.S.	\$ _____
		Subtotal for page	\$ _____

ITEM NO.	BID PRICE ENTERED IN BOTH WORDS AND FIGURES	ESTIMATED QUANTITY	TOTAL PRICE (UNIT PRICE X QUANTITY)
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SECTION 800. TRAFFIC CONTROL DEVICES (CONT.)

816.04.	Traffic Signal Reconstruction Location No. 4 _____dollars and _____cents (\$ _____)	1 L.S.	\$ _____
832..	Warning-Regulatory and Route Marker - Alum. Panel (Type A) _____dollars and _____cents (\$ _____)	120 S.F.	\$ _____
847.1.	Sign Support (N/Guide) + Rte Mkr w/1 Brkway Post Assembly - Steel _____dollars and _____cents (\$ _____)	12 EA.	\$ _____
851.1.	Traffic Cones for Traffic Management _____dollars and _____cents (\$ _____)	60 DAY	\$ _____
852.	Safety Signing for Traffic Management _____dollars and _____cents (\$ _____)	340 S.F.	\$ _____
853.1.	Portable Breakaway Barricade Type III _____dollars and _____cents (\$ _____)	3 E.A.	\$ _____
856.12.	Portable Changeable Message Sign _____dollars and _____cents (\$ _____)	120 DAY	\$ _____
864.04.	Pavement Arrows and Legends Reflectorized White (Thermoplastic) _____dollars and _____cents (\$ _____)	270 S.F.	\$ _____
		Subtotal for page	\$ _____

ITEM NO.	BID PRICE ENTERED IN BOTH WORDS AND FIGURES	ESTIMATED QUANTITY	TOTAL PRICE (UNIT PRICE X QUANTITY)
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SECTION 800. TRAFFIC CONTROL DEVICES (CONT.)

866.106.	6 Inch Reflectorized White Line (Thermoplastic) _____dollars and _____cents (\$ _____)	1,290 F.T.	\$ _____
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866.112.	12 Inch Reflectorized White Line (Thermoplastic) _____dollars and _____cents (\$ _____)	110 F.T.	\$ _____
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867.106.	6 Inch Reflectorized Yellow Line (Thermoplastic) _____dollars and _____cents (\$ _____)	850 F.T.	\$ _____
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874.2.	Traffic Sign Removed and Reset _____dollars and _____cents (\$ _____)	2 EA.	\$ _____
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874.4.	Traffic Sign Removed and Stacked _____dollars and _____cents (\$ _____)	12 EA.	\$ _____
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Subtotal for page \$ _____

TOTAL AMOUNT OF **BASE BID** BASED ON ENGINEER'S ESTIMATE OF QUANTITIES:

(Total Amount in Writing Dollars and Cents)	\$ _____
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END BID

This Bid Acknowledges addenda:

Addenda # _____ Signature: _____

Addenda # _____ Signature: _____

Addenda # _____ Signature: _____

Addenda # _____ Signature: _____

Addenda # _____ Signature: _____

Addenda # _____ Signature: _____

Addenda # _____ Signature: _____

The undersigned offers the following information as evidence of his qualifications to perform the work as bid upon according to all the requirements of the Drawings and Specifications:

The names and addresses of all persons and parties interested in this Bid as principals are as follows:

Note: give the first and last names in full. In case of a corporation, give names of officers and directors; in case of a partnership, give names of all partners.

The undersigned also agrees that all work to be performed by subcontractors are as follows:

Description of Subcontract work	Name and Address of Subcontractor
------------------------------------	--------------------------------------

The undersigned submits answers to the following questions to enable the Owner to judge their experience and ability in and facilities for the work proposed to be done.

1. If awarded to you, the work will have the resident personal supervision of whom? State their particular qualifications.

2. Describe equipment you propose to furnish.

(A) Your own (B) rented:

(A) _____

(B) _____

3. How many years has your organization been in business as a General contractor under the name in which you propose?

4. List all projects that your present organization completed of character similar to that proposed for the past five years (2017-2022). Give the information indicated by the following tabulation:

Name and Address of Owner	Work Done as Contractor /Subcontractor	Description of work	Approx. Amt. Of Contract	Approx. Date Was Done
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5. Has your present organization ever failed to complete any work awarded to it? If so, state when, where, and why.

6. Give the name of one or more banks with information that would enable them to advise regarding your company's financial ability.

Name of Bank

Address

Telephone No.

Signature of Bidder:

By:

Title:

Date

Address of permanent place of business to which notices may be sent:

zip code

telephone no.

fax no.

IMPORTANT: Execute acknowledgment of officer or agent who signs this document and attach certificate of clerk authorizing bid and execution of signing officers. (Use proper form on next page.)

At a meeting of the Board of Directors of the _____

held on _____

at which all of the Directors were present or waived notice,

or

At a regularly called meeting of the Board of Directors of the _____

held on _____ at which a quorum was present, it was voted, that _____

_____ of this company, be and they hereby are authorized to execute contracts and bonds in the name and behalf of said company, and affix its corporate seal thereto; and such execution of any contract or obligation in this company's name on its behalf by such

_____ under seal of this company shall be valid and binding upon this company.

A true copy

ATTEST:

Clerk

Place of business

Date of Contract _____

I hereby certify that I am the clerk of the _____

is duly elected _____

of said company, and that the above vote has not been amended or rescinded and remains in full force and as of this date.

Clerk

Corporate Seal

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we the undersigned

_____, as Principal, and
(insert name of bidder)

_____, as Surety, are hereby held
(insert name of surety)

and firmly bound unto the Town of Sharon, MA, in the sum of \$ _____
as liquidated damages for payment of which, will and truly to be made, we hereby jointly and severally bind
ourselves, our heirs, executors, administrators, successors, and assigns.

The condition of this obligation is such that whereas the Principal has submitted to the Town of Sharon, MA a
certain Bid attached hereto and hereby made a part hereof, to enter into a contract in writing, hereinafter referred
to as the "AGREEMENT" and/or "CONTRACT,"

NOW THEREFORE

(a) If said BID shall be rejected or withdrawn as provided in the INFORMATION FOR BIDDERS attached
hereto or, in the alternative,

(b) If said BID shall be accepted and the Principal shall duly execute and deliver the form of AGREEMENT
attached hereto and shall furnish the specified bonds for the faithful performance of the AGREEMENT and/or
Contract and for the payment for labor and materials furnished for the performance of the AGREEMENT and/or
Contract,

then this obligation shall be void, otherwise it shall remain in full force and effect; it being expressly understood
and agreed that the liability of the Surety for any and all claims there under in no event shall exceed the amount
of this obligation.

The Surety, for value received, hereby agrees that the obligations of said Surety and its bond shall be in no way
impaired or affected by any extensions of the time within which such BID may be accepted, and said Surety does
hereby waive notice of any such extensions.

IN WITNESS WHERE OF, the parties hereto have duly executed this bond on the

_____ day of _____, 20_____.

(SEAL)

BY: _____ L. S.

(Name of Surety)

BY: _____

Sealed and delivered in the presence of:

CERTIFICATE OF NON-COLLUSION

The undersigned certifies under penalties of perjury that this bid is in all respects bonafide, fair and made without collusion or fraud with any other person. As used in this section the word 'person' shall mean any natural person, joint venture, partnership, corporation, or other business or legal entity.

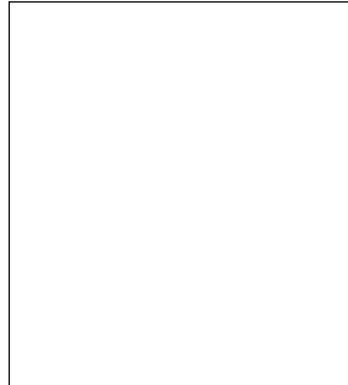
Authorized Signature

Date

Social Security Number or Federal
Identification Number

Legal Name or Business Entity (Please Print of Type)

Address:



Corporate Seal Here (if applicable)

**TOWN OF SHARON, MASSACHUSETTS
Department of Public Works**

Local Bottleneck Reduction – North Main Street & South Main Street Signal Improvements

NOTICE OF AWARD

TO: _____

The OWNER has considered the BID submitted by you for the above-described WORK in response to its Advertisement for Bids dated _____ and Information for Bidders.

You are hereby notified that your BID has been accepted for items in the amount of \$_____

You are required by the Information for Bidders to execute the Agreement and furnish the required CONTRACTOR'S PERFORMANCE BOND, PAYMENT BOND, and CERTIFICATES OF INSURANCE ten (10) calendar days from the date of this notice to you.

If you fail to execute said Agreement and to furnish said BONDS within ten (10) days from the date on this notice, said OWNER will be entitled to consider all your rights arising out of the OWNER'S acceptance of your BID as abandoned and as a forfeiture of your BID SECURITY. The OWNER will be entitled to such other rights as may be granted by law.

You are required to return an acknowledged copy of this NOTICE OF AWARD to the OWNER.

Dated this _____ day of _____, 2024.
c/o Department of Public Works
Town of Sharon, Massachusetts
Owner

By _____
Title _____

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE OF AWARD is hereby acknowledged

BY: _____
this the _____ day of _____, 20____
BY: _____ Title _____

AGREEMENT

This Agreement, made and executed this _____ day of _____ in the year 2024 by and between the Town of Sharon, MA, a municipality located within the County of Norfolk in the Commonwealth of MA, by its Select Board, duly constituted, and without personal liability for the individuals signatory hereto, said Town of Sharon being herein termed the Owner, party of the first part, and _____ hereinafter termed the Contractor, party of the second part: Witness that the parties to this Agreement each in consideration of the agreements on the part of the other herein contained have agreed, and by these presents do hereby agree, the Owner for itself, and the Contractor for himself and his heirs, executors, administrators, successors and assigns as follows:

That the Contract Documents consisting of this Agreement, together with the Information for Bidders, Instructions to Bidders, Bids, Bonds, General Conditions, Supplementary Conditions, and Specifications hereto attached, the Drawings referred to herein and in the Specifications, and any Addenda issued before execution of the Agreement, form the contract:

That the Contractor has informed themselves fully regarding all conditions of the place where the work is to be done and other circumstances affecting the work:

That the Contractor has obtained all the information they need to enable them to estimate fully and fairly the costs of the work herein contemplated:

That the Contractor agrees to complete the scope of work in accordance with the Contract Documents in current funds at the lump sum and unit prices agreed upon in the Contractor's Bid form attached to this Agreement. The Contractor shall furnish all materials, supplies, tools, equipment, and other facilities and things necessary or proper for, or incidental to, the completion of the installation of the **Local Bottleneck Reduction – North Main Street & South Main Street Signal Improvements** as shown on the bid plans, for the party of the first part per this contract. The Contractor shall complete everything required of them under this contract no later than the time stated in the Contract: December 31st, 2024.

That the Owner shall pay and the Contractor shall receive as full compensation for invoices submitted to the Town after the work has been inspected and approved by the Assistant Town Engineer, Superintendent of Public Works or the Building Inspector of the Town of Sharon.

The Owner shall pay the Contractor in current funds the performance of the Work; subject to additions and deductions by Change Order(s) the Contract Sum of \$ _____ including chosen alternates.

The sum of one hundred (\$100.00) dollars is to be agreed upon as liquidated damages, and shall be paid by the Contractor to the Owner for each and every calendar day in which any work of this contract is uncompleted after the times stipulated for such completion, and the prices bid shall be fixed with regard to this provision, reductions for liquidated damages will be made from payments due the Contractor.

All work shall be completed before December 31st, 2024.

Signed, sealed, and delivered in quadruplicate the day and year first above written

Town of Sharon, Massachusetts, Select Board

BY: (Select Board) _____

BY: (Contractor) _____

Approved as to form

Town Counsel

Certification of Appropriation

By: _____

Town Accountant

IMPORTANT - Execute acknowledgment of officer or agent who signs this document.

ACKNOWLEDGMENT OF PRINCIPAL, IF A CORPORATION

State of _____

County of _____

On this _____ day of _____, 20____

before me personally came and appeared _____ to me known, who, being duly sworn, did depose and say that he/she _____

resides at _____ that he/she is the

_____ of _____ the corporation described in and which executed the foregoing instrument; that they know the seal of said corporation; that one of the impressions affixed to said instrument is an impressions affixed to said instrument is an impression of such seal; that it was so affixed by order of the Directors of said corporation, and that he/she signed his/her name thereto by like order.

(SEAL)

(Notary Public)

My commission expires:

ACKNOWLEDGMENT OF PRINCIPAL, IF A PARTNERSHIP

State of _____

County of _____

On this _____ day of _____, 20____

before me personally came and appeared _____ to me known and known to me to be one of the members of the firm of _____ described in and who executed the foregoing instrument and they acknowledged to me that they executed the same as and for the act and deed of said firm.

(SEAL)

(Notary Public)

My Commission expires:

ACKNOWLEDGMENT OF PRINCIPAL, IF AN INDIVIDUAL

State Of _____

County of _____

On this _____ day of _____, 20_____

before me personally came and appeared _____ to me know and know to me to be the person described in and who executed the foregoing instrument and acknowledged that they executed the same.

(SEAL)

(NOTARY PUBLIC)

My Commission expires:

PERFORMANCE BOND

Know all men by these presents, that _____ (hereinafter called the principal) as principal, and _____ a corporation organized and existing under the laws of the _____ with its principal office _____, (hereinafter called the surety) as surety, are held and firmly bound unto _____ (Awarding Authority), (hereinafter called the obligee), in the just and full sum of _____ dollars and _____ to the payment of which sum, well and truly to be made, the said principal and surety bind themselves, and their respective heirs, administrators, executors, successors and assigns, jointly and severally, firmly by these presents. Whereas, the principal has entered into a certain written contract _____ of _____ 20__ for the _____ in the Town of Sharon, Sharon, Massachusetts, as outlined in the specifications, which contract is hereby referred to and made a part hereof as fully and to the same extent as if copied a length herein. Now therefore, the condition of this obligation is such that if the said principal shall well and truly perform and fulfill all the undertaking, covenants, terms, conditions, and agreements of said contract during the original term of said contract and any extensions thereof that may be granted by the obligee with or without notice to the surety, and shall also well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of any and all duly authorized modifications of said contract that may hereinafter be made, notice of which modifications of said contract that may hereinafter be made, notice of which modifications to the surety being to remain in full force and virtue. Provided, however, it shall be a condition precedent to any right of recovery here under that the obligee, upon discovery of any default on the part of the principal, shall within a reasonable time deliver to the surety by registered mail at its office at _____ a written statement substantially setting forth the nature of such default. And provided further that no action, suit, or proceeding shall be had or maintained against the surety of this instrument unless the same be brought or instituted and process served upon the surety within three years after completion of the work mentioned in said contract, whether such work be completed by the principal, surety or obligee, but if there is any maintenance period provided in the contract for which said surety is liable, an action for maintenance may be brought within three years from the expiration of the maintenance period, but not afterwards.

In witness whereof, the said principal and surety have signed and sealed this instrument this _____ day of _____ 20__

By: _____
(Principal)

By: _____
(Surety Company)

LABOR AND MATERIALS BOND

KNOW ALL MEN BY THESE PRESENTS: That we, _____
_____ trading under the firm name of
_____ of the city _____ county of
_____ State of _____ as
PRINCIPAL, and the _____ a corporation organized and
existing under the laws of the State of _____, as Surety, are held and
firmly bound unto the Town of Sharon, Sharon, Massachusetts, in the sum of _____
_____ lawful money of the United States of America, to the payment of which
sum, well and truly to be made and done, we do bind ourselves, our heirs, executors, administrators, successors
and assigns, jointly and severally, firmly by these presents.

DATED this _____ day of _____ A. D., 20_____

WHEREAS: The above bounden Principal has entered into a contract with the Town of Sharon, dated _
_____ day of _____ A. D., 20_____
for

NOW THEREFORE, THE CONDITION of this obligation is such, that if the Principal shall promptly make payments to all claimants as hereinafter defined, for all labor performed or furnished and for all materials and equipment furnished for or used in or in connection with the work called for by said AGREEMENT and/or contract and any modifications thereof, including lumber used but not incorporated in said work, and for the rental or hire of vehicles, tools and other appliances and equipment furnished for our used in connection with said work, this obligation shall be void; otherwise it shall remain in full force and effect, subject however, to the following conditions:

1. A claimant is defined as one having a direct contract with the Principal or with a subcontractor of the Principal for labor, materials and/or equipment used or reasonably required for use in the performance of the said work, labor and materials being construed to include that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental of equipment directly applicable to the said AGREEMENT and/or Contract and any modifications thereof.

2. The above named Principal and Surety hereby jointly and severally agree with the Awarding Authority that every claimant as herein defined, who has not been paid in full before the expiration of a period of sixty (65) days after the date on which the last of such claimant's work or labor was done or performed or materials or equipment were furnished by such claimant, may sue on this bond for the use of such claimant, prosecute the suit to final judgment for such sum or sums as may be justly due the claimant, and have execution thereon. The Awarding Authority shall not be liable for the payment of any costs or expenses of any such suit.

No suit or action shall be commenced here under by any claimant.

1. Unless claimant, other than one having a direct contract with the principal, shall have given written notice to any two of the following; The principal, the Awarding Authority, or the Surety above named, within sixty-five (65) days after such claimant did or performed the last of the work of labor, or furnished the last of the materials or equipment for which said claim is made, stating with substantial accuracy the amount claimed and the name of the party to whom the materials or equipment were furnished, or for whom the work or labor was done or performed. Such notice shall be served by mailing the same by registered mail or certified mail, postage prepaid, in an envelope addressed to the Principal, Awarding Authority or Surety at any manner in which the said Work is located, save that such a service need not be made by a public officer:
2. After the expiration of one (1) year following the date on which the Principal ceased work on said AGREEMENT and/or Contract and any modifications thereof, it being understood, that if any limitation embodied in this bond is prohibited by any law controlling the construction hereof, such limitation shall be deemed to be amended so as to be equal to the minimum period of limitation permitted by law.
3. Other than in a state court of competent jurisdiction in and for the county or other political subdivision of the state in which the said work, or any part thereof, is situated, or in the United States district court for the district in which the said work, or any part thereof, is situated and not elsewhere.

The amount of this bond shall be reduced by and to extent of any payment of payments made in good faith here under, inclusive of the payment by Surety of mechanics; liens which may be filed or record against AGREEMENT and/or Contract of said Work, whether or not claim for the amount of such lien be presented under and against this bond.

The surety, for value received, agrees further that no changes in, omissions from, or alterations, modifications or additions to the terms and provisions of said AGREEMENT and/or Contract or the Work to be performed there under, and that no extensions of time given or changes made in the manner or time of making payments there under, shall in any way affect the Surety's obligations on this bond, and the surety hereby waives notice of any changes, omissions, alterations, modifications, additions or extensions

IN TESTIMONY WHEREOF and said PRINCIPAL AND SURETY had hereunto set their hands and seals and caused these presents to be duly executed the day and year above written.

(Principal)

By: _____
(Surety)

By: _____

**Select Board
Policy Number Eleven**

Insurance Requirements for Independent Contractors

I. PURPOSE:

To establish criteria regarding the satisfaction of insurance requirements for independent contractors. In the past and in the absence of insurance requirements, the Town has been held liable for the workers' compensation insurance requirements and has been assessed a premium for this coverage. This policy has been exposed to risk from the actions of independent contractors. This policy will alleviate the exposure from this risk.

II. STATUTORY BACKGROUND:

Mass. General Laws, Chapter 152, provides the statutory requirements for compliance to the Commonwealth's workers' compensation.

III. GENERAL PRINCIPLES:

Any independent contractor desiring to perform any function for compensation must provide to the "Chief Procurement Officer," defined as the Executive Secretary to the Board of Selectman, proof of insurance. This proof shall be a "Certificate of Insurance" with Town of Sharon named as an additional named insured. The insurance requirements are as follows:

1. Commercial General Liability including Products/Completed Operations, with no exclusion for explosion, collapse and underground damage (xcu).

Combined Single Limit for Bodily Injury and Property Damage
\$1,000,000 Each Occurrence
\$2,000,000 Annual Aggregate

2. Automobile Liability (owned, non-owned and hired)
\$1,000,000 Each Occurrence

3. Umbrella Liability
\$1,000,000 Each Occurrence
\$1,000,000 Annual Aggregate

4. Workers Compensation Insurance
Waiver of Subrogation
Statutory Benefits-State of Hire
Employers Liability
\$500,000 Each Person for Injury by Disease
\$500,000 Policy Limit for Injury by Disease
\$500,000 Each Person for Injury by Accident

5. Coverage must be written with carriers rated as A or better by Best's Rating Service or equivalent.

6. The certificate should name Town of Sharon as additional insured for General Liability with respect to claims resulting from work performed by Contractor. The certificate should also indicate that in the event

of cancellation of any of the policies, 30 days prior written notice of cancellation will be given to the Town of Sharon.

IV. INDEMNIFICATION

The Contractor shall defend, indemnify and hold harmless the Town from and against any and all claims, liability, loss, damages, costs, fines or expenses for personal injury or damage to real or tangible personal property which the Town may sustain, incur or be required to pay, arising out of or in connection with services performed under this contract or by reason of any negligent action/inaction or willful misconduct of the Contractor, its agent(s) or person(s) employed by the Contractor, any of its subcontractors or other entities for which the Contractor is legally responsible.

or, as otherwise determined by the Select Board. The Select Board reserves the right to waive or otherwise modify these requirements.

CERTIFICATE OF AUTHORITY

(For Corporations Only)

_____,20____
(current date)

At a meeting of the Directors of the _____duly called and
(name of corporation)

held at _____on the _____day of
_____,20____, at which a quorum was present and acting, it was

VOTED, that _____the
(name)

_____of this corporation, is hereby authorized and empowered to
(office)

make, enter into, sign, seal and deliver in behalf of this corporation a contract for

(describe service)

with the Town of Sharon, and a performance bond and labor and materials bond in connection with said contract.

I do hereby certify that the above is a true and correct copy of the record, that said
vote has not been amended or replaced and is in full force and effect as of this date, and

that _____is the duly elected _____of
(name) (office)

this corporation.

Attest:

(Affix Corporate Seal Here)

Clerk (Secretary) of the Corporation

STATEMENT OF WAGE RATE COMPLIANCE

_____, 20, _____

I, _____
(Name of signatory party) (Title)

do hereby state:

That I pay or supervise the payment of the persons employed by
_____ on the
(contractors, subcontractors of public body)

(Building or Project)

and that all mechanics and apprentices, teamsters, chauffeurs and laborers employed on said project shall be paid in accordance with wages determined under the provision of Sections twenty-six (26) and twenty-seven (27) of Chapter one hundred and forty-nine (149) of the General Laws.

Signature _____

Title _____

(Signed under penalties of perjury as provided for
under Section 273 of Chapter 149, General Laws)

Note: Statement to be completed by Contractor on Contractor's letterhead.

**STATEMENT OF INDEPENDENT CERTIFIED
PUBLIC ACCOUNTANT - (G. L. c. 30 39R(c))**

I, _____, an independent certified public accountant state that I have examined the statement of management of _____ on internal accounting controls, and express the following opinion.

1. The representations of management in response to the requirement of G. L. c 30, 39R paragraph (c) are consistent with the result of management's evaluation of the system of internal account controls; and
2. Such representations of management are, in addition, reasonable with respect to transactions and assets in amounts which would be material when measured in relation to the applicant's financial statements.

Signed: _____

Title: _____

Dated: _____

**CONTRACTOR'S CERTIFICATION AS TO INTERNAL
ACCOUNT CONTROLS (G. L. c. 30, 39R(c))**

I, _____ do hereby state:
(name of signatory party) (title)

The system of internal accounting controls of this company and its subsidiaries reasonably assure the following:

1. transactions are executed in accordance with management's general and specific authorization:
2. transactions are recorded as necessary
 - i. to permit preparation of financial statements in conformity with generally accepted accounting principals, and
 - ii. to maintain accountability for assets;
3. access to assets is permitted only in accordance with management's general of specific authorization; and
4. the recorded accountability for assets is compared with the existing assets at reasonable intervals and appropriate action was taken with respect to any difference.

Signature _____

Title _____

Dated: _____

**TOWN OF SHARON, MASSACHUSETTS
DEPARTMENT of PUBLIC WORKS**

Local Bottleneck Reduction – North Main Street & South Main Street Signal Improvements

NOTICE TO PROCEED

TO: _____ DATE: _____

You are hereby notified to commence Work in accordance with the Agreement dated _____, 2024.

The date of completion of all Work is

_____, 2024

OWNER: Town of Sharon, MA

Department of Public Works:

BY: _____

TITLE: _____

ACCEPTANCE OF NOTICE

Receipt of the above Notice To Proceed

is hereby acknowledged by

this the _____ day of _____, 20__

BY: _____

TITLE: _____

APPENDIX A
Special Provisions

PART 1 – SCOPE OF WORK

The work consists of signal and intersection improvements at five intersections in Sharon, MA. The work primarily consists of updating traffic signal hardware, optimizing signal timings, providing video detection, pavement mill and overlay, signs, pavement markings and appurtenant work.

All work under this contract shall be done in conformance with these Special Provisions and:

- a. Standard Specifications for Highway and Bridges dated 2023
- b. 2017 Construction Standard Details
- c. 1990 Standard Drawings for Signs and Supports
- d. 1996 Construction and Traffic Standard Details (as related to the Pavement Marking details only)
- e. 2015 Overhead Signal Structure and Foundation Standard Drawings
- f. 2010 ADA Standards for Accessible Design
- g. 2009 Manual on Uniform Traffic Control Devices (MUTCD) with Massachusetts Amendments and the Standard Municipal Traffic Code
- h. 1968 Standard Drawings for Traffic Signals and Highway Lighting
- i. Latest edition of American Standard for Nursery Stock
- j. Plans titled “North Main Street & South Main Street Signal Improvements, Sharon, MA”

References within the Standard Specifications to MassDOT, the Department, the Owner or the Engineer shall, for the purposed of this Contract, be construed to mean the Municipality or its designated representative.

Location No. 1: South Main Street at Walpole Street / Heights Elementary School Driveway

Location No. 2: South Main Street at East Foxboro Street

Location No. 3: South Main Street at Chestnut Street / East Chestnut Street

Location No. 4: South Main Street / North Main Street at Depot Street / Billings Street

Location No. 5: Billings Street at Pond Street

DESIGN CONSULTANT

CHA Consulting, Inc.
141 Longwater Drive, Suite 104
Norwell, MA 02061
Contact: John G. Morgan, Jr., PE., PTOE
(781) 982-5437
jmorgan@chasolutions.com

PART 2 – CONTROL OF WORK AND MATERIALS

ORDERING OF MATERIALS AND DRAWINGS

The Contractor shall provide the Engineer within thirty (30) days of receipt of the contract, written evidence that the Contractor has ordered the shop drawings for the materials for which shop drawings are required for this contract.

The Contractor shall further provide the Engineer written evidence within thirty (30) days of receipt of the Contract that these orders have been confirmed in writing by the manufacturer with delivery dates appropriate for timely completion of the project. These confirmations of orders will become part of the project records.

Failure to comply with any of the ordering requirements shall nullify a request for an extension of the project completion date.

SHOP DRAWING SUBMITTAL

This section shall supplement Subsection 5.02 of the Standard Specification for Highways and Bridges dated 2023.

The following is a list of items and materials that require shop drawing or catalog cut approval:

- a. Traffic Control Equipment
 - i. Traffic Signal Equipment (catalog cuts)
- b. Other
 - i. Health and Safety Plan
 - ii. Construction Sequence & Traffic Management Plan

DISPOSAL OF SURPLUS MATERIALS

All existing and other materials not required or needed for use on the project, and not required to be removed and stacked, shall become the property of the Contractor and shall be removed from the site during the construction period and legally disposed of. No separate payment will be made for this work, but all costs in connection shall be included in the prices bid for various contract items.

LAYDOWN AREA

The Municipality will not be providing a laydown area to the Contractor for use on this project. The Contractor shall be required to make their own arrangements and consider this in the delivery of materials. The Contractor shall not be allowed to use existing parking spaces for operations, unless otherwise approved by the Municipality.

TEMPORARY FENCE

Contractor shall erect temporary fencing as required to secure the work site for the purpose of public safety. The work shall include furnishing, installing, maintaining, removing, resetting, and final removal of fencing. The fence shall be used to close off the construction area from adjacent sidewalks and public ways, whose use conflicts with the construction activities. All work to furnish, install, relocate and remove temporary fencing shall be considered incidental to and no separate payment will be made.

PART 3 – LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC

ARCHITECTURAL ACCESS BOARD TOLERANCES

The Contractor is hereby notified that they are ultimately responsible for constructing all project elements in strict compliance with the current AAB/ADA rules, regulations, and standards.

PERMITS AND LICENSES

Prior to the start of work the Contractor shall submit copies of the current licenses of all electricians who will perform the electrical work. Within ten (10) days of opening of bids, the low bidder shall submit a list of the Master Electrician and all Journeymen Electricians (MA license) who will perform the electrical work in this contract, along with copies of each Electrician's current Massachusetts license. The Contractor shall be responsible for obtaining all necessary permits and licensing from the Town and other agencies, as required.

PUBLIC SAFETY AND CONVENIENCE

This section shall supplement Subsection 7.09 of the Standard Specification for Highways and Bridges dated 2023.

Vehicular and pedestrian travel on the public way shall be maintained by the Contractor during construction and access to abutting land shall be provided at all times. If so directed, the Contractor may use either modular/pre-fabricated temporary curb ramps or hot mix asphalt to construct temporary ramps or temporary wooden walkways for pedestrian accommodation. Pedestrian channelized devices shall be provided if required by the Engineer.

The Contractor shall furnish, install, maintain and move all warning devices, barricades, signs, special apparatus, and other safety measures for the protection of motorists, pedestrians and the Contractor's own personnel.

All costs in connection with these measures shall be included in the various payment items and no additional compensation will be made.

Trenches shall not be excavated in traveled ways until all materials and equipment required for such work are at the site and available for immediate use. When work is not in progress, trenches in areas subject to public travel shall be covered with steel plates capable of safely sustaining a 20-ton truck load with impact. The work in each trench shall be practically continuous, with the placing of pipe, backfilling and patching of the surface closely following each preceding operation. Payment for steel plates will be included under the unit bid price per linear foot for each respective pipe item regardless of width of trench.

The Contractor's attention is directed to the AASHTO Guide on Occupational Safety of Highway Construction Projects, subpart N, 1926.550, relating to construction equipment clearances at overhead electric lines, which states in part "...the minimum clearance between the lines and any part of the crane or load must be at least 10 feet from lines rated 50 KV or below, and greater distances for higher voltage...". For the protection of personnel and equipment, the Contractor should be aware of this regulation especially during paving operations using large semi-trailer vehicles.

INVESTIGATION OF UNDERGROUND UTILITIES

The Contractor's attention is directed to the necessity of making his own investigation in order to assure that no damage to existing structures, drainage lines, street light conduits, etc., will occur. The locations of existing underground utilities as shown on the plans are approximate only and have not been independently verified by the owners or representatives.

The Contractor shall notify the Municipality and Mass. DIG SAFE and procure a DIG SAFE number for each location prior to disturbing the existing ground in any way.

DIG SAFE Call Center 1-888-344-7233

The Contractor shall notify the Municipality and Dig Safe 72 hours prior to start of construction.

NOTICE TO OWNERS OF UTILITIES

This section shall supplement Subsection 7.13 of the Standard Specification for Highways and Bridges dated 2023.

Written notice shall be given by the Contractor to all public service corporations or municipal and State officials owning or having charge of publicly or privately owned utilities of intention to commence operations affecting such utilities at least one week in advance of the commencement of such operations. The Contractor shall, at the same time, file a copy of such notice with the Engineer. Before commencing work on service connections, the Contractor shall contact the serving utility to ensure that proper construction procedures are followed.

The following are the names and addresses of some of the agencies which may be affected and must be notified. Completeness of this list is not guaranteed by the Municipality. The Contractor shall assure that all affected agencies are notified. It will be the Contractor's responsibility to verify this contact information and to notify the Municipality of changes to this list.

- a. Electric
 - i. Eversource Electric "A"
1165 Massachusetts Avenue
Dorchester, MA 02125
Attn: Terence Doonan
terence.doonan1@eversource.com
(617) 541-5714
- b. Gas
 - i. Eversource Gas
995 Belmont Street
Brockton, MA 02301
Attn: Richard Salvarezza
richard.salvarezza@eversource.com
(508) 895-4818
 - ii. Enbridge
8 Wilson Way
Westwood, MA 02090
Attn: Kathy M. Aruda
kathleen.aruda@enbridge.com
(508) 938-7728
- c. Telephone
 - i. Verizon
385 Myles Standish Boulevard
Taunton, MA 02780
Attn: Karen Mealy
karen.m.mealey@verizon.com
(774) 409-3160
- d. Water
 - i. Sharon Water Department
217 Rear South Main Street
Sharon, MA 02067
Attn: David Masciarelli
(781) 784-1525
- e. Sewer
 - i. Sharon Sewer Committee
217 Rear South Main Street
Sharon, MA 02067
Attn: Jim Andrews
(781) 784-1529

- f. Cable
 - i. Comcast Cable Corporation
5 Omni Way – P.O. Box 6505
Chelmsford, MA 01824
Attn: Wendy Brown
Wendy_Brown@comcast.com
(978) 848-5163
 - ii. Crown Castle
80 Central Street
Boxborough, MA 01719
Attn: Mark Bonanno
mark.bonanno@crowncastle.com
(508) 616-7818
 - iii. MCI-Verizon Business
P.O. Box 600
Charlton, MA 01507
Attn: Stephen Parretti
stephen.parretti@verizon.com
(508) 248-1305
 - iv. Eversource Fiber
247 Station Drive, Mail Stop: SUM SE 320
Westwood, MA 02090
Attn: Bechir Khoury
bechir.khoury@eversoure.com
(781) 441-3864
- g. Fire Alarm
 - i. Sharon Fire Department
211 South Main Street
Sharon, MA 02067
Attn: Dennis Mann
(781) 784-1522
- h. DPW
 - i. Sharon Town Engineer
217 Rear South Main Street
Sharon, MA 02067
Attn: Peter O’Cain
(781) 784-1529
- i. Other
 - i. Lumen
1025 Eldorado Boulevard
Broomfield, CO 80024
Attn: Renoy Thomas
relocations@lumen.com
(516) 712-3041
 - ii. Verizon Wireless Small Cell
20 Alexander Drive
Wallingford, CT 06492
Attn: Liz Glidden
elizabeth.glidden@verizonwireless.com

A list of public and private utilities to verify the list above can be found on the MassDOT website at: <http://www.massdot.state.ma.us/>

- a. Select Quick Links
- b. Select Doing Business with the Highway Division
- c. Select Design/Engineering
- d. Select Utility Contacts
- e. Select District 5 on top of the webpage, select the City/Town, and then locate the utility.
- f. The utility contact list is for guidance only and is not guaranteed to be complete or up to date.

PROTECTION OF UTILITIES AND PROPERTY

This section shall supplement Subsection 7.13 of the Standard Specification for Highways and Bridges dated 2023.

The Contractor, in constructing or installing facilities alongside or near sanitary sewers, storm drains, water or gas pipes, electric or telephone conduits, poles, railroad, sidewalks, walls or other structures, shall, at the Contractor's expense, sustain them securely in place, cooperating with the officers and agents of the various utility companies and municipal departments which control them, so that the services of these structures shall be maintained. Whatever measures are necessary to protect these lines during work shall be included in the Contract unit price for the items involved.

If live service connections are to be interrupted by excavations of any kind, the Contractor shall not break the service until new services are provided.

If, as the work progresses, it is found that any of the utility structures are so placed as to render it impracticable, in the judgment of the Engineer, to do the work called for under this Contract, the Contractor shall protect and maintain the services in such utilities and structures and the Engineer will, as soon thereafter as reasonable, cause the position of the utilities to be changed or take such other actions deemed suitable and proper.

The Contractor shall also be responsible for the repair or replacement, at own expense, of any damage to such structures caused by acts or neglect and shall leave them in the same condition as they existed prior to the commencement of work. In case of damage to utilities, the Contractor shall promptly notify the utility owner and shall, if requested by the Owner or Engineer, furnish labor and equipment to work temporarily under the utility owner's direction in providing access to the utility. Pipes or other structures damaged by the operation of the Contractor may be repaired by the Municipality or by the utility owner that suffers the loss. The cost of such repairs shall be borne by the Contractor, without compensation, therefore.

Full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all the work involved in protecting or repairing utilities and property as specified in this section shall be considered as included in the prices paid for the various contract items of work and no additional compensation will be allowed therefore.

The Contractor shall be also required to furnish all labor, materials, and equipment necessary to protect underground structures and electrical vaults within the project site from construction debris and water penetration. When underground structures or electrical vault roofs are excavated, the Contractor shall be responsible for maintaining security of these structures or electrical vaults against unauthorized access. The Contractor shall be responsible for leaving the structures and vaults in a state of water tightness equal to that existing at the commencement of the contract.

The Contractor shall pay the serving utility for their services rendered for the connection of underground service connection.

ENVIRONMENTAL CONTROLS

All construction equipment shall be fitted with suitable muffling devices so that the noise from construction operation shall be properly controlled. The Contractor shall control all dirt, dust erosion and other related construction emissions from the project to the satisfaction of the Engineer.

DUST CONTROL OPERATIONS

The Contractor shall perform dust control operations, in an approved manner, whenever necessary or when directed by the Engineer, even though all other work on the project shall be suspended. Dust controlling shall be generally accomplished by the use of water; however, the use of flake calcium chloride may be ordered when necessary to control dust nuisance.

PART 4 – PROSECUTION AND PROGRESS

CONCURRENT WORK BY OTHERS WITHIN PROJECT LIMITS

Concurrent work may be in progress in the project area by others, including but not limited to, the Municipality and various utility companies. The Contractor is required to coordinate activities with all work by others within and adjacent to the project limits.

No additional payments will be allowed for any disruption of work schedule caused by or required to coordinate work in this contract and work to be performed by others.

WORK SCHEDULE

This section shall supplement Subsection 8.02 of the Standard Specification for Highways and Bridges dated 2023.

No work, including the setting up and taking down of work zone traffic control devices shall be done on any part of the traveled way between the hours of 6:00 AM to 9:00 AM and 3:00 PM to 6:00 PM (2:00 pm to 6:00 pm at Location #1) without written approval from the Engineer and the Town of Sharon. Work shall be permitted in areas outside and off the traveled way during these periods, as long as they don't interfere with, interrupt or endanger the general public or traffic flow.

Night work will be allowed for milling and paving operations with prior approval and must be scheduled at least 7 days in advance to facilitate abutter notifications.

No work shall be done on this contract on Saturdays, Sundays, or Holidays. Work will not be allowed the day before or the day after a weekend which involves a Holiday (The Fourth of July and Christmas holidays could fall in this category) without prior approval by the Engineer.

The Contractor shall prepare and submit to the Town a proposed work schedule and traffic management plan which complies with the Contract Documents. No work shall start until the Town's approval of the schedule is received. This schedule will be updated at least once a month for the duration of the contract. The Contractor shall notify the Town at least 14 days before construction starts.

The Contractor shall provide 7 days advanced notice to the Town when nighttime work is planned. Contractor shall provide lighting plants to facilitate this nighttime work. **No additional compensation shall be made for lighting plants, power, plates with non-skid surfaces or other provisions for nighttime work.**

In general, the Contractor's prosecution of the work shall comply with the following minimum requirements:

- a. Roadways must remain accessible throughout the construction for emergency apparatus, business, and residents at all times unless previously approved by the Town.
- b. One lane of traffic in each direction of travel must be maintained on all streets at all times, except where otherwise approved by the Town in advance.
- c. Sidewalk shall remain open on at least one side of the roadway at all times.
- d. Contractor shall be required to phase sidewalk reconstruction to minimize pedestrian inconvenience.
- e. Work at intersections shall be undertaken so as to maintain all existing turning movements.
- f. Pedestrian and vehicular access to all abutting properties shall be maintained except for very short periods of time. When it is necessary to deny access to a property, the owner shall be informed at least 48 hours in advance.

PROVISIONS FOR TRAVEL AND PROSECUTION OF WORK

This section shall supplement Subsection 8.03 of the Standard Specification for Highways and Bridges dated 2023.

Before starting any work under this Contract, the Contractor shall submit a Schedule of Operation as provided in Section 8.02. This work schedule shall include a plan of construction procedures, staging, and the safety measures used during the prosecution of the work as set forth in Section 850 of the Standard Specifications for Highways and Bridges.

The Contractor may be required to temporarily suspend operations when such are considered by the Engineer to be a hazard to traffic.

Particular care shall be taken to establish and maintain methods and procedures that will not create unnecessary or unusual hazards to public safety. Signs having messages that are irrelevant to normal traffic conditions shall be removed or properly covered at the end of each work period. Signs are to be kept clean at all times, and legends shall be distinctive and unmarred.

The Contractor shall provide, place, and erect all necessary barricades and warning signs and maintain adequate lights and illumination therefore. The Contractor shall be held responsible for all damage to the work due to any failure of signs and barricades needed to protect the work from traffic, pedestrians, or other causes.

The Contractor shall not proceed with surfacing operations without the specific written approval of the Engineer.

SAFETY CONTROLS FOR CONSTRUCTION OPERATIONS

This section shall supplement Subsection 850. of the Standard Specification for Highways and Bridges dated 2023.

Safety controls for construction operations shall be provided in accordance with the relevant provisions of Section 850 of the Standard Specifications, the Manual on Uniform Traffic Control Devices (MUTCD), the Traffic Management Plan, and as otherwise specified herein.

Unless otherwise provided for by specific items of this contract, the provision of safety controls for construction operations shall be considered incidental to this contract with the cost for these safety controls considered to be included in the various unit bid prices of this contract. No compensation shall be made for the provision of traffic cones or other devices for which items are not provided for in the Contract.

Positioning, adjusting and re-positioning of all devices such as traffic cones, high level warning devices, arrow boards, temporary barriers, shall be considered incidental to the various items of this contract with no separate payment made.

No additional compensation shall be made for lighting plants, power, plates with non-skid surfaces or other provisions for nighttime work.

All safety signing, temporary pavement markings, reflectorized and lighted drums, and all other safety controls used for construction operations shall conform to the NCHRP 350 and the MUTCD, Current Edition, for Street and Highways including all amendments.

POLICE DETAILS

When so directed, the Contractor shall make all arrangements with the Sharon Police Department to obtain any necessary police details. Payment will be made through the Sharon Division of Public Works. Police Detail invoices/slips should be submitted directly to the DPW. If the Contractor fails to notify police of detail cancelation, the Contractor is responsible for payment of all cancelation fees or penalties and the Owner shall not reimburse the Contractor for such.

APPENDIX B

Construction Specifications

PART 1 – GENERAL

Work Items are referenced with Item Numbers and Item Descriptions similar to those currently in use by the MassDOT, Highway Division. Method of Measurement and Basis of Payment for Work Items shall be as called for under the appropriate section of the MassDOT Standard Specifications, unless modified in Section 03000, Special Provisions and Section 04000, Construction Specifications.

The following items reflect special conditions particular to this Project. As such, they amend and/or supplement the provisions governing the Item, as described in the Standard Specifications.

PART 2 – ITEM 816.0X – TRAFFIC SIGNAL RECONSTRUCTION LOCATION NO. X

The work shall include the furnishing and installation of part or all of the following items at the intersections: the controller and cabinet; signal heads; video detectors; pre-emption receivers, all cable and wiring; ground rods, equipment grounding and bonding; service connection; and all other equipment, materials, and incidental costs necessary to provide a complete, fully operational traffic control signal system as specified herein and as shown on the plans.

In addition, work under this section shall be performed in accordance with the most recent version of the following standards:

- a. Advanced Transportation Controller (ATC) Standard 5201 v06.34 (or later), as published by the American Association of State Highway and Transportation Officials (AASHTO), the Institute of Transportation Engineers (ITE), and the National Electrical Manufacturers Association (NEMA); and
- b. NEMA TS-2-2016 Specification (or later)

Within 30 days following execution of the Contract, the Contractor shall submit shop drawings for signal supports, a list of equipment, and manufacturer's equipment specifications to the Design Engineer in accordance with the relevant provisions of Section 815.20. All equipment supplied should be listed on MassDOT's Approved Material List.

No signal work shall be commenced by the Contractor until approval of the shop drawings and manufacturer's data has been received in writing from the Design Engineer. Approval of these drawings will be general in character and shall not relieve the Contractor from the responsibility of, or the necessity of, furnishing materials and workmanship conforming to the plans and specifications.

The Contractor shall deliver to the Design Engineer a certificate of compliance with the manufacturer for all materials purchased from the manufacturer.

Location No. 1: South Main Street at Walpole Street / Heights Elementary School Driveway

Location No. 2: South Main Street at East Foxboro Street

Location No. 3: South Main Street at Chestnut Street / East Chestnut Street

Location No. 4: South Main Street / North Main Street at Depot Street / Billings Street

FLASHING OPERATION

Changes from automatic flashing to stop-and-go operation and from stop-and-go to automatic flashing operation shall occur as set forth in Section 4D-12 of the MUTCD.

CONTROLLERS

The ATC controller shall conform to the MassDOT Standard Specifications (Latest Edition).

The traffic controller unit shall have Peer-to-Peer (P2P) capabilities to communicate with controllers at adjacent intersections and shall be capable of being operated in the fully actuated mode, in the free mode and as semi-actuated in the coordinated mode.

The controller unit shall meet all applicable requirements of the NEMA Standard Publication TS 2-2016, Type 1, the MassDOT Standard Specifications and include the following as minimum requirements for the "Keyboard Entry Controller Unit:"

- a. The controller shall have hard-wire interconnect capability and internal time base coordination logic. The coordination control shall have the capabilities of providing coordination control methods of cycle select, offset select, yield/hold with force-off, phase omit, phase skip, permissive period, and similar control functions.
- b. The controller shall have a data transfer/printer port for data transfer to another controller, printer, or laptop PC computer. A port shall be provided for uploading or downloading controller operating parameters from a laptop PC computer.
- c. The controller shall have a security code function.
- d. The phase or phases selected for "call to non-actuated" (C.N.A.) modes shall be determined as needed by keyboard entries.
- e. The controller shall have an Ethernet port for coordination.

Each programmable local hardware component shall be initially programmed by the Contractor based on information contained on the plans. Three (3) sets of hard copy programming per device shall be supplied and stored in the controller cabinet. In addition, at least two (2) sets physical data keys, programming cables, corresponding software and applications, and all other accessories required to monitor or modify controller programming shall be provided to the Town at no additional cost.

CABINETS

Cabinets shall be made of Aluminum and painted black at Locations #1 and #2, and green at Locations #3 and #4. Cabinets shall be installed on concrete pads with back panels facing the intersection.

The controller and all other ancillary traffic signal control components included in the traffic control cabinet shall comply with the NEMA Standard No. TS-2-2016 (or later). The controller and cabinet assemblies shall be supplied in a TS 2 Type 1 configuration. The cabinet shall also be wired with a normally closed switch, connected to a user defined input to the controller for remote monitoring of the control cabinet's door open status. Controller cabinet shall be size "M" type box, with dimensions conforming to size five (5) dimensions as specified in Table 7.3-1 of the NEMA TS 2 Standards.

The controller cabinet shall be installed on an existing foundation location at each intersection, as noted on the plans. Anchor bolts shall be internal to the cabinet.

A slide-in/slide-out shelf or swing-out/swing-in shelf appropriate for the size and load of a laptop computer shall be installed in each controller cabinet to allow maintenance personnel to work in the cabinet in a safe, effective, and comfortable manner. A convenience outlet and a lamp with an on/off switch shall be installed in the controller cabinet.

The Contractor shall furnish the appropriate type and number of load switches and flash transfer relays and place unutilized load switches and flash transfer relays in the control cabinet for future use. Load relays shall be easily replaced using a screwdriver. Component relays requiring soldering are not acceptable.

All time settings, switches, harnesses, relays, terminals and fuses shall be clearly and permanently labeled.

The Contractor shall perform testing of the equipment grounding system in the presence of the Engineer in accordance with the Standard Specifications.

MALFUNCTION MANAGEMENT UNITS

The malfunction management unit (MMU) shall comply with Section 4 of the NEMA TS-2 standard. The MMU shall be capable of operating as either a Type 16 with 16 channels (8 vehicle, 4 pedestrian, 4 overlap) or a Type 12 with 12 channels (8 vehicle, 4 overlap). The MMU's supplied shall be configured to operate as Type 16 units.

The MMU's in either the Type 16 or Type 12 configuration shall be capable of operating in a NEMA TS-2 Type 1 cabinet or a NEMA TS-1 cabinet without loss of functionality.

LOAD SWITCHES

Load switches shall comply with Subsection 6.2 of the NEMA TS-2 Standard. All load switches shall utilize optically isolated encapsulated modular solid-state relays. Discrete components on circuit boards are not acceptable.

Load switch indicator lights shall be LED-type and wired on the input side of the device. Each controller shall come with a full rack of 12 load switches.

FLASHERS AND FLASH TRANSFER RELAYS

Flashers shall comply with Subsection 6.3 of the NEMA TS-2 standard and be equipped with two output indicator lights which will show flashing power out to the cabinet assembly.

Flash transfer relays shall comply with Subsection 6.4 of the NEMA TS 2 standard. The field electrical loading for flash operation shall be wired through the transfer relays such that the load on a two-circuit flasher is as balanced as possible within the limitations of the signal phasing.

SOFTWARE

All local controller, malfunction management unit, and amplifier software shall be supplied with the latest available revision. Any software upgrades released by the manufacturer shall be supplied at no charge to the MassDOT for a period of five years after acceptance of the traffic signal installations.

DATA BASE PROGRAMMING

Each programmable local hardware component (controller, malfunction management unit and detection system) shall be initially programmed by the Contractor based on information contained on the plans. Three sets of the hard copy programming per device shall be left in the cabinet.

TESTING OF GROUNDING SYSTEM

The Contractor shall perform testing of the equipment grounding system in the presence of the Design Engineer in accordance with the Standard Specifications.

SURGE PROTECTION

All controller cabinet inputs & outputs should be surge protected except traffic signal outputs. (Signal outputs from load switches do not need surge suppression since the load switches act as surge protectors.)

The surge protector must be electrically connected to the nearest grounded metal structure or nearest ground rod.

Surge protection for power service shall conform to the current NEMA TS-2 standard except surge capacity shall be 80 kA. The product complies when a lab report from an independent test laboratory stating the product passes the current NEMA TS-2 (5.4.2.4) specification (with the additional surge capacity of 80 kA) is submitted with the shop drawings.

Surge protection for all loop, pedestrian button, and pre-emption connections should have peak surge current protection of at least 10K amperes with a response time of less than 5 nanoseconds. The product complies when a lab report from an independent test laboratory stating the product passes this specification is submitted with the shop drawings.

Units should be unconditionally warrantied for at least 10 years.

SIGNAL HEADS

Signal heads shall be weather tight assemblies, conforming to the requirements of “Adjustable Face Vehicle Traffic Control Signal Head Standard,” ITE Technical Report #1, ANSI (D10.1).

Signal heads not in use shall be fully covered, including backplates, as per FHWA Interpretation Letter 4(09)-001(I) – Covering Signals Out of Service.

Signal housing shall be painted black at Locations #1 and #2, and green at Locations #3 and #4.

RED, YELLOW, GREEN LED VEHICLE SIGNAL

The LED Module shall be an approved item from MassDOT’s Traffic Control Devices Approved Equipment List. See “Traffic Signal Controls” under “Qualified Construction Materials” on the Department website: http://www.mhd.state.ma.us/downloads/trafficMaterials/TrafficSignalControls_1210.pdf

To prevent the LED module warranty from being voided, the connecting leads on the module shall not be cut. The original LED module lead shall be connected to the signal terminal block as continuous wire without splices.

The LED signal module will be replaced or repaired by the manufacturer if it exhibits one of the following:

- a. A failure due to workmanship or material defects within the first 60 months of field operation.
- b. A greater than 40 percent light output degradation or fall below the minimum intensity levels (as defined by the latest ITE performance specifications) within the first 36 months of field operation

EMERGENCY VEHICLE PRE-EMPTION

When optical energy impulses are received at the intersection, control of the signals shall transfer to the controller’s internal pre-emption logic which shall cause the signal controller to show a selected display identical to one of the color interval displays normally available as specified, which will assist the vehicle through the intersection without cross street conflict. After the vehicle has passed through the intersection, control of the signals shall then return to normal operation, which shall restore the appropriate timings that were in effect prior to pre-emption.

The following description of work specifies the responsibilities involved in the installation of optical emergency vehicle pre-emption:

- a. The Contractor is required to supply material and labor required or shown for the complete installation of optical pre-emption equipment at this project. Intersection pre-emption equipment required includes optical receivers, cable, interfacing equipment to the controller, making electrical connections and all required incidentals.

The following are the operational requirements of the optical emergency vehicle pre-emption system:

- a. Emergency Vehicle Design Speed for pre-emption controlled approaches shall be 40 MPH.
- b. Operating sequence as specified shall be initiated when the optical detector receives optical energy of the required repetition rate from an emitter.
- c. Detector shall transform the optical energy signals into electrical signals and transmit the electrical signals to the controller for processing.
- d. Controller shall not respond to optical energy signals from another authorized vehicle.

The optical receiver cable shall meet the specifications of the system manufacturer.

Pre-emption System Design and Documentation shall include the following:

- a. Provide the installing agency with location for detector installation.
- b. Provide the controller manufacturer, Design Engineer, and Town of Sharon Engineer with electrical diagrams.

The installer shall install the equipment consistent with the pre-emption equipment, the manufacturer's recommended installation procedures, and electrical diagrams in a neat and workmanlike manner.

The pre-emption equipment manufacturer shall be responsible for operational checkouts of the specified pre-emption functions prior to final acceptance and approval by the Design Engineer. Operating checkouts include the following:

- a. Verifying that the priority system timing and range are properly set.
- b. Pre-emption equipment warranties are put into effect.

SIGN SUPPORTS

Signs shall not be permitted to hang from mast arms. Signs proposed to be mounted on mast arms shall be bolted directly through the sign face.

SERVICE CONNECTION

The Contractor shall coordinate and cooperate with Eversource Energy (EGMA) to complete the installation of the service connections. The Contractor shall notify the utility company immediately following the Notice to Proceed from the Town to generate a Work Order for the proposed service connection. All notifications, permits, and installation fees/costs required to provide electric service shall be the sole responsibility of the Contractor. The service connection shall be made to the electric manhole/ utility pole as designated on the plans.

Electric Power Cost: The payment for power under item 816.01, 816.02, 816.03, and 816.04 will be undertaken by the Town of Sharon during the construction period. After the project's completion and acceptance by MassDOT and the Town or its designated representative, the utility charges and account will be transferred to the Town of Sharon.

FIELD MONITORING UNIT

A Field Monitoring Unit (FMU) and software shall be installed at all locations called for on the Traffic Signal Plans. All accessories required for full and complete installation, including but not limited to power adapters, Ethernet cables, and interface cables, shall be included.

As an exception to Section 2.1.B above, the presence of the FMU on the MassDOT “Approved Equipment List” shall not be a requirement for its use in the project.

The Contractor shall request from MassDOT and/or the Engineer the IP addresses for each device connected to the FMU. All devices with Ethernet ports within the controller cabinet shall be connected to the FMU.

The FMU shall be integrated into MassDOT existing MassDOT Critical Operations Multi-Jurisdictional Modular System (MCOMMS) cloud-based management system.

The FMU shall be configured to connect to MassDOT existing traffic signal network as directed by the Engineer.

This work shall consist of furnishing, installing, configuring, and testing an FMU that meets the following requirements:

- a. The FMU shall operate independent of the brand/type of intersection controller, video or thermal detection system and battery backup system (if applicable) and any in cabinet web accessed device deployed in the traffic cabinet.
- b. The FMU shall function correctly between -34 degrees C and +74 degrees C.
- c. The FMU shall have at least five (5) other FMU installations within the New England area.
- d. The FMU shall be provided with appropriately rated connectors that allows the FMU to be exchanged by unplugging connectors, without tools.
- e. The Contractor shall develop a test plan that fully demonstrates that all requirements as defined in these specifications have been met. The test plan shall define in detail each test, and the expected result of each test. The test plan shall be submitted as part of the shop drawings and shall be subject to revisions based on review and comment by the agency and the design consultant. Where applicable, the Contractor shall provide manufacturer certificates of compliances to verify that the unit supplied meets a specific requirement.
- f. The FMU shall monitor and log all Controller and cabinet faults and/or alarms.
- g. The FMU shall be wired directly to the cabinet.
- h. The FMU shall have an internal cellular modem running at 4G LTE and be designed to be replaced / upgraded to 5G service when available.
- i. The FMU shall incorporate an integrated GPS and cell modem. The integrated GPS will allow the FMU to geo-locate itself on the FMU management software map, without configuration.
- j. The configuration of the FMU shall be accomplished by accessing the internal web server with a browser. It shall be possible to configure the FMU without any special software.
- k. The FMU shall be powered via a standard 120 VAC input power.
- l. The FMU shall allow for the routing of the controller configuration packets to and from the controller by Ethernet for any type of controller utilized by the agency. In this way, it shall be possible to configure the controller and utilize the controller specific software to interrogate the controller, and the FMU shall provide the redundant communications pipeline (where applicable) which allows this to be accomplished.
- m. The FMU shall include Ethernet communications via an Ethernet Port with RJ-45 connector. The FMU shall include an integrated four port Ethernet switch.
- n. The FMU shall be configured to allow for the remote display and control of the connected traffic signal controller via the FMU manufacturer cloud hosted web-based software. This feature shall not require the end user to create a separate VPN connection to the FMU.

- o. The FMU shall be configured to provide access to view the detection system, including the video image of each approach, via the FMU web-based software. This feature shall not require the end user to create a separate VPN connection to the FMU.
- i. The remote streaming of the video detection camera shall be done via the FMU manufacturer's website. The streaming shall be able to stream at 10 frames per second or greater.
- p. The FMU shall be configured for SPaT data and to provide SPaT message broadcast from the ATC controller using the FMU manufacturer mobile app.
- q. The FMU shall be configured to provide remote access to all devices within the traffic control cabinet that have a web interface via the FMU web-based software. This feature shall not require the end user to create a separate VPN connection to the FMU.
- r. The FMU shall perform a load test of the connected Battery Backup System (BBS) batteries on a scheduled or on demand basis (if applicable).
- s. The FMU shall, within the size limitations above, include a battery and battery charging/monitoring circuit to allow the FMU to function correctly even when all power to the intersection has failed. The battery shall continue to power the FMU for a minimum of 5 hours after all power has failed to the intersection.
- t. The FMU shall be connected to the traffic signal controller to provide for GPS time sync pulse for the traffic signal internal clock.
- u. The FMU shall operate without requiring a static IP address. The only configuration required at the FMU is to enter the URL of where the FMU management software is hosted.
- v. In the event that the cell service is interrupted or is not available, the FMU shall store any events that occur in its internal memory and forward these events automatically to the FMU management software when the cell service is restored. In this way, a complete record of events at the device can be maintained even if cell service is interrupted for a period of time. The system shall store 5,000 events.
- w. The FMU shall utilize HTTP and HTTPS protocols, and XML data structures, for communication with the FMU management software. In this way the data shall be scalable for future expansion and competition. The use of custom proprietary protocols is not permitted.
- x. The FMU shall be supplied and installed to include weatherproof antennas to support operations.
- y. The FMU shall be supplied, installed, and configured by the Contractor with map display management software that has the following features:
 - i. The FMU shall include a scrollable, zoomable map display, with the intersections and other monitored devices shown as representative icons on the map. The map shall include the ability to see the intersections using Google Streetview or similar.
 - ii. The alarm status of the intersection shall be clearly indicated on the icon on the map so that the user can see at a glance which intersections are in an alarm condition.
 - iii. The map display shall also include a list of intersections, with the number and priority of alarms indicated on the list. Intersections in high priority alarm shall be moved to the top of the list, followed by medium priority, low priority and then finally by intersections not in an alarm state.
 - iv. The icons shall dynamically change to be able to clearly indicate if an intersection is offline.
 - v. Clicking on the icon on the map shall expose a display window with the current parameters of the intersection shown.
 - vi. The default map display position and zoom shall be configurable by user so that the user's view will default to show the intersections that the user is responsible for managing.
 - vii. The map view shall have the ability to show Google traffic overlays on the map.
- z. The FMU shall be supplied, installed, and configured by the Contractor with intersection detail display management software that has the following features:
 - i. It shall be possible to drill down, either from the map icon or from the list to a device level detail for the intersection. The cabinet shall be fully wired to support the following parameters that shall be monitored and displayed:
 - 1. The alarm status, with priority indicated, and a text description of the alarm (if an alarm is present for this device).
 - 2. The time since the last communication with the device.

3. The following parameters (real time values, minimum for the day values, maximum for the day values, and average for the day values).
 - a. The AC mains voltage (value)
 - b. The battery back-up voltage (value)
 - c. The cabinet temperature (value)
 - d. The cabinet humidity (value)
 - e. The presence of AC power (OK or Fail)
 - f. The flashing status of the intersection (OK or Flashing)
 - g. Stop Time status (OK or Stop Time Active)
 - h. The cabinet door status (Open or Closed)
 - i. The intersection fan status (Fan on or Fan off)
- ii. It shall be possible to view graphs of each of the value parameters in graphical form over the most recent two-week period. This includes real time graphs of:
 1. The AC mains voltage
 2. The battery back-up voltage
 3. The cabinet temperature
 4. The cabinet humidity
- aa. The FMU shall be supplied, installed, and configured by the Contractor with a diagnostics and log display management software that meets or exceeds the following:
 - i. From the device level detail within the FMU management software, it shall be possible to drill down to get the raw data; the error logs; and the communications logs to allow a technician to fault-find problems.
 - ii. It shall be able to filter the logs by Device; by Device Type and/or by Group as well as between dates.
 - iii. It shall be able to print these selected logs to a local printer or a PDF file.
 - iv. It shall be able to export these logs to Excel on the local computer for further analysis.
- bb. The FMU shall be supplied, installed, and configured by the Contractor with an alarm management software that meets or exceeds the following:
 - i. The FMU management software shall have a comprehensive alarm generation capability.
 - ii. It shall be able to configure alarms to be generated on any parameter that indicates a value that is out of tolerance, including analog values, digital values, and enumerated values.
 - iii. Alarms shall be configurable to be of Low, High or Critical Priority.
 - iv. The alarm priority shall be displayed throughout the FMU management software, on all displays using color codes such as red-critical; yellow-high; and amber-low to indicate the priority of the alarm.
 - v. The current active alarms shall be accessible for viewing via an expandable window, to observe which alarms are active and when the alarm occurred. The highest priority alarms shall rise to the top of the list.
- cc. The FMU shall be supplied, installed, and configured by the Contractor with alerts management software that meets or exceeds the following:
 - i. The FMU management software shall have a comprehensive alerting function to enable the response personnel to be notified when an abnormal situation has occurred.
 - ii. It shall be able to configure alerts to one or more personnel for each alarm. This will cause, as selected, an SMS and/or an email to be sent to the person when an alarm occurs.
 - iii. The alert notification system shall be configurable by the system user to optionally send via email and/or via SMS message when an alarm clears.
 - iv. The SMS and email alerts shall be issued within 30 seconds of the occurrence of an event which results in an alert being issued.
- dd. The FMU shall be supplied, installed, and configured by the Contractor with connectivity and server management software that meets or exceeds the following:

- i. The Contractor shall supply the FMU with the FMU manufacturers 10-year options for Connectivity and Service, as part of the purchase price. The Connectivity and Service agreement shall include at a minimum:
 - 1. Cellular Connectivity
 - 2. No cellular overage charges
 - 3. Video Streaming via the manufacturer's web-based interface
 - 4. Extended warranty on the hardware for the period of the Connectivity and Service Agreement
 - 5. Over-the-air software updates
 - 6. Over-the-air security updates
 - 7. Remote Front Panel of the connected traffic signal controller
 - 8. SPaT message broadcast to mobile device application
 - 9. Future Connected Vehicles Service
- ee. The FMU shall be supplied with the unlimited video/data streaming service.
- ff. The FMU shall be configured with the Traffic Signal Controller remote front panel access.
- gg. At the time of the shop drawing submittal, Contractor shall supply a detail list of available FMU functions for the agency consideration.

VIDEO DETECTION

Video Detection shall be installed for vehicle detection at all signal locations as part of Item 816.01, 816.02, 816.03 and 816.04. Specific video detection to be installed at these locations is specified on the plans. This section covers the minimum requirements for a system that detects vehicles and bicycles on a roadway using only video images.

The Contractor has the option to provide and install a Single Point Video Detection (SPVD) System or a multi-camera system as defined on the plans and in these special provisions. The Contractor shall notify designer of use of a multi-camera system to allow for revisions to traffic signal plans, if needed.

SINGLE-POINT VIDEO DETECTION (SPVD) OPTION A:

The SPVD system shall include a single ultra-wide angle lens camera, video processor unit, detection algorithms, all cables, connections, mounting hardware, application software, and accessories required by the manufacturer for proper operation of the system, including but not limited to surge protection devices.

Video software and a transfer cable shall be supplied to the Town of Sharon Engineer at the time of acceptance.

System Hardware:

- a. The SPVD system shall detect and monitor vehicles on approach roadways utilizing advanced, omnidirectional, vehicle tracking algorithms along with three-dimensional vehicle modeling to supply accurate and consistent stop line detection.
- b. The SPVD system shall include all necessary software and hardware to allow the end user to program, setup, and/or modify detection zones within the video camera image. One pointing device and one swivel mounted color monitor within the controller cabinet for future viewing of the detection camera images shall be supplied by the Contractor. The Contractor shall also supply any necessary cables, interface devices and software for monitoring video detection via laptop computers per the manufacturer's recommendations.
- c. The camera shall be mounted at the intersection, as shown on the plan or as directed by The Engineer.

Camera Minimum Requirements:

- a. At a minimum, the SPVD shall meet the following camera requirements:
 - i. Power: 48 VDC, single burial grade CAT 5e cable
 - ii. Operating Temp: -35C to +60C
 - iii. Humidity: Up to 100%

- iv. Dimensions: 10" diameter x 9"
- v. Weight: less than 11 lbs.
- vi. The camera shall include an ultra-wide-angle lens.
- vii. The camera shall include a heater to prevent the formation of ice and condensation.
- viii. The camera, when properly installed and configured, shall be able to concurrently observe at least 5 lanes of traffic per approach.
- ix. The camera shall be able to concurrently observe more than one approach.
- x. The camera, mounting hardware, and any related materials, when properly installed, shall withstand 150 mph wind speeds.
- xi. The camera shall operate at a level of presence detection accuracy at or above 97 percent, excluding issues of occlusion due to limitations imposed by camera placement.

Video Processor Unit Minimum Requirements

- a. At minimum, the VPU shall meet the following requirements:
 - i. Power: 120-240 VAC, requiring 150 watts or less.
 - ii. Operating Temp: -34C to +74C
 - iii. Humidity: Up to 95% non-condensing
 - iv. Dimensions: 12.25" wide x 11.25" depth x 5" high
 - v. Enclosure: Rack mount in traffic cabinet
- b. The video processor unit shall save configurations and zone plans locally to maintain operation with or without monitoring equipment connected. The video processor unit shall be designed to function dependably in the adverse environment found in the typical roadside traffic cabinet. The video processor unit shall include at least 24 detector outputs. The video processor unit shall include an SDLC connection for TS2 type controllers. The video processor shall be compatible with TS1 type controllers as well. The video processor unit shall include a USB on the front surface for simple data collection on non-networked systems. The video processor unit shall include both LAN and WAN RJ-45 interface ports on the front surface of the unit.

Application Software Minimum Requirements:

- a. The application software shall support the creation and modification of at least twenty-four (24) polygonal detection zones within the graphical user interface.
- b. The application software will show images of the detection zones superimposed on the video image of traffic.
- c. The application software shall support the assignment of a detector output(s) to each zone. These assignments can be modified at any time through the software.
- d. The application software shall support direction of travel assignment within detection zones. The vehicle detection zone shall not activate for objects traveling any direction other than the one specified for detection. Cross-street and wrong way traffic shall not cause detection.
- e. The application software shall change the color of the zone within the graphical user interface as vehicles enter or exit a detection zone, changing its occupancy status.
- f. The application software shall provide visual indication of the light state for each zone within the graphical user interface.
- g. The application software shall feature the ability to digitally pan, tilt, and zoom within the camera's field of view without movement of the camera.
- h. The application software shall feature the ability to mask objects that occlude the camera field of view and/or disrupt the camera automatic gain and exposure control.
- i. The application software shall feature an optional reporting interface offering point and click reporting for turning movement counts and vehicle classification.
- j. The Contractor shall provide software that enables a technician to test all features and functions of the SPVD system, and to perform all set-up procedures. This software shall be delivered on a CD so that it can be installed on other laptops. MassDOT and the Town of Sharon shall have the right to make and use an unlimited number of copies of this software.

Installation:

- a. The SPVD system shall be installed in accordance with the manufacturer's recommended procedure for installation. The SPVD system shall be installed by factory certified installers and as recommended by the manufacturer and documented in installation materials provided by the manufacturer. Proof of the factory certification shall be provided. Installation includes connecting the SPVD to the traffic signal controller and power supply in the associated controller cabinet assembly. When the setup is complete and the SPVD system is ready for operation, the values of all parameters that were set during the process shall be delivered to the Engineer in printed and computer readable form. All equipment, such as software, laptop computer, tools and cables, needed for setup work shall be provided by the Contractor.
- b. If the mounting suggested height of installation cannot be performed with traditional mast arm, the contractor shall supply a combination mast arm / luminaire pole to achieve height requirements at which the cost shall be considered under 816.01, 816.02, 816.03, or 816.04.

Programming:

- a. The Contractor shall be responsible for the proper programming of the SPVD, orientation of the SPVD, and all other work necessary to provide a complete vehicle detection system. The Contractor may be required to field adjust the location of the SPVD system in the presence of the Engineer to properly detect approaching vehicles.

Documentation:

- a. The cabinet documentation (box prints) shall show all wiring between the SPVD system and the controller cabinet.

MULTI-CAMERA OPTION B:

A multi-camera system shall include one camera per approach, video processor unit, detection algorithms, all cables, connections, mounting hardware, application software, and accessories required by the manufacturer for proper operation of the system, including but not limited to surge protection devices.

System Hardware:

- a. Processor shall be a 2-channel processor. The video detection system shall consist of one or more video cameras, a video detection processor (VDP) which mounts in a standard detector rack and a pointing device.

System Software:

- a. The system shall include software that detects vehicles in multiple lanes using only the video image. Detection zones shall be defined using only an onboard video menu and a pointing device to place the zones on a video image. Up to 24 detection zones per camera shall be available. A separate computer shall not be required to program the detection zones.
- b. Video software and a transfer cable shall be supplied to MassDOT District 5 Traffic Engineer at the time of acceptance.

Functional Capabilities:

- a. The VDP shall process video from one or two sources, as specified. The source can be a video camera or video tape player. The video shall be input to the VDP in RS170 format and shall be digitized and analyzed in real time. Dual video VDP's shall process images from both inputs simultaneously.
- b. The VDP shall detect the presence of vehicles in up to 24 detection zones per camera. A detection zone shall be approximately the width and length of one car.
- c. Detection zones shall be programmed via an on-board menu displayed on a video monitor and a pointing device connected to the VDP. The menu shall facilitate placement of detection zones and setting of zone

parameters or to view system parameters. A separate computer shall not be required for programming detection zones or to view system operation.

- d. The VDP shall store up to three different detection zone patterns. The VDP can switch to any one of the three different detection patterns within 1 second of user request via menu selection with the pointing device.
- e. The VDP shall detect vehicles in real time as they travel across each detector zone.
- f. The VDP shall have an RS-232 port for communications with an external computer. The VDP RS-232 port shall be multi-drop compatible.
- g. The VDP shall accept new detector patterns from an external computer through the RS-232 port when the external computer uses the correct communications protocol for downloading detector patterns. A Windows™-based software designed for local or remote connection and providing video capture, real-time detection indication and detection zone modification capability shall be provided with the system.
- h. The VDP shall send its detection patterns to an external computer through the RS-232 port when requested when the external computer uses the appropriate communications protocol for uploading detector patterns.
- i. VDP and EM communications shall be accommodated by methods using differential signals to reject electrically coupled noise.
- j. The camera system shall be able to transmit an NTSC video signal, with minimal signal degradation, up to 1000 feet under ideal conditions.
- k. The associated VDP shall default to a safe condition, such as a constant call on each active detection channel, in the event of loss of video signal.
- l. The system shall be capable of automatically detecting a low-visibility condition such as fog and respond by placing all defined detection zones in a constant call mode. A user-selected output shall be active during the low-visibility condition that can be used to modify the controller operation if connected to the appropriate controller input modifier(s). The system shall automatically revert to normal detection mode when the low-visibility condition no longer exists.

Vehicle Detection:

- a. A minimum of 24 detection zones shall be supported and each detection zone shall be user definable in size and shape to suit the site and the desired vehicle detection region. Detection zones shall be provided for bicycles as indicated on the contract drawings.
- b. A single detection zone shall be able to replace multiple inductive loops and the detection zones shall be OR'ed as the default or may be AND'ed together to indicate vehicle presence on a single phase of traffic movement.
- c. Placement of detection zones shall be done by using only a pointing device, and a graphical interface built into the VDP and displayed on a video monitor, to draw the detection zones on the video image from the video camera. No separate computer shall be required to program the detection zones.
- d. A minimum of 3 detection zone patterns shall be saved within the VDP memory. The VDP's memory shall be non-volatile to prevent data loss during power outages. The VDP shall continue to operate (e.g. detect vehicles) using the existing zone configurations even when the operator is defining/modifying a zone pattern. The new zone configuration shall not go into effect until the configuration is saved by the operator.
- e. The selection of the detection zone pattern for current use shall be done through a menu or remote computer via RS-232 port. It shall be possible to activate a detection zone pattern for a camera from VDP memory and have that detection zone pattern displayed within 1 second of activation.
- f. When a vehicle is detected crossing a detection zone, the corners of the detection zone (for the entire polygon) will flash on the video overlay display screen to confirm the detection of the vehicle.
- g. Detection shall be at least 98% accurate in good weather conditions and at least 96% accurate under adverse weather conditions (rain, snow, or fog). Detection accuracy is dependent upon site geometry; camera placement, camera quality and detection zone location, and these accuracy levels do not include allowances for occlusion or poor video due to camera location or quality.

- h. Detector placement shall not be more distant from the camera than a distance of ten times the mounting height of the camera.
- i. The VDP shall provide up to 24 channels of vehicle presence detection per camera through a standard detector rack edge connector.
- j. The VDP shall provide dynamic zone reconfiguration (DZR) to enable normal detector operation of existing channels except the one where a zone is being added or modified during the setup process. The VDP shall output a constant call on any detection channel corresponding to a zone being modified.
- k. Detection zone setup shall not require site specific information such as latitude, longitude, date and time to be entered into the system.
- l. The VDP shall output a constant call for each enabled detector output channel if a loss of video signal occurs. The VDP shall output a constant call during the background learning period.
- m. Detection zone outputs shall be configurable to allow the selection of presence, pulse, extend, and delay outputs. Timing parameters of pulse, extend, and delay outputs shall be user definable between 0.1 to 25.0 seconds.
- n. Up to six detection zones shall be capable to count the number of vehicles detected. The count value shall be internally stored for later retrieval through the RS-232 port. The data collection interval shall be user definable in periods of 5, 15, 30 or 60 minutes.

VDP and EM Hardware:

- a. The VDP and EM shall be specifically designed to mount in a standard TS-1, TS-2, and 170 type detector rack, using the edge connector to obtain power and provide contact closure outputs. No adapters shall be required to mount the VDP or EM in a standard detector rack. Detector rack rewiring shall not be required or shall be minimized.
- b. The VDP and EM shall operate in a temperature range from -34°C to +74°C and a humidity range from 0%RH to 95%RH, non-condensing.
- c. The VDP and EM shall be powered by 12 or 24 volts DC. These modules shall automatically compensate for the different input voltages.
- d. VDP power consumption shall not exceed 300 milliamps at 24 VDC. The EM power consumption shall not exceed 120 milliamps at 24 VDC.
- e. The VDP shall include an RS-232 port for serial communications with a remote computer. The VDP RS-232 port shall be multi-drop compatible. This port shall be a 9-pin "D" subminiature connector on the front of the VDP.
- f. The VDP shall utilize flash memory technology to enable the loading of modified or enhanced software through the RS-232 port without modifying the VDP hardware.
- g. The VDP and EM shall include detector output pin out compatibility with industry standard detector racks.
- h. The front of the VDP shall include detection indications, such as LED's, for each channel of detection that display detector outputs in real time when the system is operational.
- i. The front of the VDP shall include one or two BNC video input connection suitable for RS-170 video inputs as required. The video input shall include a switch selectable 75-ohm or high impedance termination to allow camera video to be routed to other devices, as well as input to the VDP for vehicle detection. Video must be inputted via a BNC connector on the front face of the processor. RCA type connectors/jacks for video input are not allowed. Video shall not be routed via the edge connectors of the processor.
- j. The front of the VDP shall include one BNC video output providing real time video output that can be routed to other devices. A RCA type connector/jack for video output is not allowed.
- k. The front panel of the VDP and EM shall have a detector test switch to allow the user to place calls on each channel. The test switch shall be able to place either a constant call or a momentary call depending on the position of the switch.

Video Detection Camera:

- a. The video cameras used for traffic detection shall be furnished by the VDP supplier and shall be qualified by the supplier to ensure proper system operation.
- b. The camera shall produce a useable video image of the bodies of vehicles under all roadway lighting conditions, regardless of time of day. The minimum range of scene luminance over which the camera shall produce a useable video image shall be the minimum range from nighttime to daytime, but not less than the range 0.1 lux to 10,000 lux.
- c. The camera shall use a charge coupled device (CCD) sensing element and shall output monochrome video with resolution of not less than 380 lines vertical and 380 lines horizontal.
- d. The camera shall include an electronic shutter control based upon average scene luminance and shall be equipped with a factory adjusted manual iris. Auto-iris lenses are not allowed.
- e. The camera shall include a variable focal length lens with variable focus that can be adjusted, without opening the camera housing, to suit the site geometry by means of a portable interface device designed for that purpose and manufactured by the detection system supplier.
- f. The horizontal field of view shall be adjustable from 8.1 to 45.9 degrees. A single camera configuration shall be used for all approaches to minimize the setup time and spares required by the user. The camera electronics shall include automatic gain control (AGC) to produce a satisfactory image at night.
- g. The camera shall be housed in a weather-tight sealed enclosure. The housing shall be field rotatable to allow proper alignment between the camera and the traveled road surface. The camera enclosure shall be equipped with a sunshield. The sunshield shall include a provision for water diversion to prevent water from flowing in the camera's field of view. The camera enclosure with sunshield shall be less than 6" diameter, less than 15" long, and shall weigh less than 6 pounds when the camera and lens are mounted inside the enclosure. The camera enclosure shall include a thermostatically controlled heater to assure proper operation of the lens shutter at low temperatures and prevent moisture condensation on the optical faceplate of the enclosure.
- h. When mounted outdoors in the enclosure, the camera shall operate satisfactorily in a temperature range from -34 °C to +60 °C and a humidity range from 0% RH to 100% RH.
- i. The camera shall be powered by 120-240 VAC 50/60 Hz. Power consumption shall be 15 watts or less under all conditions.
- j. Recommended camera placement height shall be at least 20 feet (or 6 meters) above the roadway, and over the traveled way on which vehicles are to be detected. For optimum detection the camera should be centered above the traveled roadway. The camera shall view approaching vehicles at a distance not to exceed 200 feet for reliable detection (height to distance ratio of 10:100). Camera placement and field of view (FOV) shall be unobstructed and as noted in the installation documentation provided by the supplier.
- k. The camera enclosure shall be equipped with separate, weather-tight connections for power and setup video cables at the rear of the enclosure. These connections may also allow diagnostic testing and viewing of video at the camera while the camera is installed on a mast arm or pole using a lens adjustment module (LAM) supplied by the VDP supplier. Video and power shall not be connected within the same connector.
- l. The video signal output by the camera shall be black and white in RS170 or CCIR format.
- m. The video signal shall be fully isolated from the camera enclosure and power cabling.

Co-Axial Cable:

- a. The coaxial cable to be used between the camera and the VDP in the traffic cabinet shall be a 75 ohm, precision video cable with 20 gauge solid bare copper conductor (9.9 ohms/M), solid polyethylene insulating dielectric, 98% (min) tinned copper double-braided shield and black polyethylene outer covering. The signal attenuation shall not exceed 0.78 dB per 100 feet at 10 MHz. Nominal outside diameter is 0.304 inches. The coax cable shall be a continuous unbroken run from the camera to the VDP. This cable shall be suitable for installation in conduit or overhead with appropriate span wire. 75-ohm BNC plug connectors should be used at both the camera and cabinet ends. The coaxial cable, BNC connector, and crimping tool shall be approved by the supplier of the video detection system, and the manufacturer's instructions must be followed to ensure proper connection.

Power Cabling:

- a. The power cabling shall be 16 AWG three-conductor cable. The cabling shall comply with the National Electric Code, as well as local electrical codes. Cameras may acquire power from the luminaire if necessary.

Execution:

- a. The video detection system shall be installed by supplier factory certified installers and as recommended by the supplier and documented in installation materials provided by the supplier. Proof of factory certification shall be provided.

Testing of Cameras:

- a. The following test procedure shall be performed in the presence of the Engineer before and after the camera detection is used. The cost of equipment, labor, and materials to perform such testing and similar re-testing following repairs, replacement, or adjustment of any camera within the project area shall be included in the contract unit price for this Item.
- b. After installation of cameras above the roadway each camera shall be tested (at the controller cabinet) for proper installation.

FINAL INSPECTION

After the Contractor has finished installing controllers and all other associated signal equipment and after Contractor has set the signal equipment to operate as specified in the contract documents, the fine tuning, adjusting, and testing period shall begin. The contractor shall notify the Engineer in writing of the starting date of the fine tuning and adjustment period. During this period, the Contractor, under the direction of the Design Engineer will make necessary adjustments and tests to ensure safe and efficient operation of the equipment. This period shall not last for less than 30 days. No request for final acceptance will be considered until successful completion of the testing period. The contractor shall contact the Town of Sharon Engineer for a final inspection of the traffic signal.

Upon the date of acceptance of the project by the Department, the Contractor shall turn over all guarantees and warranties to the Department.

The Contractor shall supply As-Built Plans and wiring diagrams in 2020 AutoCAD DWG, DWF, and PDF formats.

Per MassDOT Specifications the Contractor shall provide prior to final acceptance as furnished by the manufacturer:

- a. Controller Unit, Flasher, Load Switches, Conflict Monitor and all-external logic units.
 - i. Electronic schematic of circuit boards.
 - ii. Pictorial layout of components on circuit boards.
 - iii. Service manual for troubleshooting.
 - iv. Manual describing the theory of operations.
 - v. Parts list showing manufacturer's part number and location.
- b. Controller cabinet.
 - i. Cabinet wiring diagram (3 sets).

METHOD OF MEASUREMENT

The lump sum price bid for this item shall be full compensation for all labor, materials and equipment necessary or incidental to the installation of the complete signal system.

BASIS OF PAYMENT

No separate payment will be made for sawcutting, excavation, backfill, concrete, temporary installations, service connection, relocation of snow emergency equipment, restoration of damaged facilities or other incidental work but all costs in connection therewith shall be included in the Lump Sum price bid.

The cost of maintenance of the proposed traffic signal equipment shall be deemed to be included in the various traffic signal contract items, and no additional payments shall be made thereof, except as provided by Subsection 7.17 of the Supplemental Specifications as amended.

PART 3 – ITEM 874.2 – TRAFFIC SIGN REMOVED AND RESET **ITEM 874.4 – TRAFFIC SIGN REMOVED AND STACKED**

The work under these items shall conform to the relevant provisions of Section 828 of the Standard Specifications and as specified herein and as shown on the plans.

TRAFFIC SIGNS

The Contractor shall carefully remove all existing signs, attachment hardware, and sign support post not included under other sign items as shown on the plans include in this Contract and as required by the Engineer. Signs determined to be in good condition at the time of construction may be removed and reset as indicated on the plans or removed and stacked as directed below.

TRAFFIC SIGN REMOVED AND STACKED

Materials directed to be removed and stacked which are Municipal property, shall be removed, transported to, and stacked at the Sharon DPW garage at 217 Rear South Main Street. All materials shall be neatly stacked as directed by the Municipality. In addition, all materials stacked shall be signed off by the DPW or other appropriate department.

Materials directed to removed and stacked which are MassDOT property, shall be removed, transported to, and stacked at a site designated by MassDOT.

When directed by the Engineer to remove and stack materials which are privately owned, said materials shall be removed, transported to, and stacked on the property from which the materials have been removed.

If the Municipality or MassDOT determines that any part of the stacked materials is unsuitable for re-use by the municipality, or if other owners decide to abandon part or all of their materials, such materials shall become the property of the Contractor and the Contractor shall properly dispose of them away from the site.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Traffic signs removed and reset will be paid for at the Contract unit price per Each under Item 874.2. No additional payment shall be made for backfill, excavation, labor, materials, equipment and incidental costs required to complete the work.

Traffic signs removed and stacked will be paid for at the Contract unit price per Each under Item 874.4. Traffic signs and posts that are suitable for reuse but not applicable to the proposed conditions shall be stacked at the Sharon DPW 217 Rear South Main Street, Sharon, MA 02067. No additional payment shall be made for backfill, excavation, labor, materials, equipment, transportation and incidental costs required to complete the work.

APPENDIX C

Wage Rates



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 Sharon

Contract Number:

City/Town: SHARON

Description of Work:

1. Install and program new traffic cabinet and traffic signal
controller

Job Location:

South Main Street, Sharon, MA

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 1)</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>	06/01/2023	\$38.21	\$9.40	\$16.89	\$0.00	\$64.50
	12/01/2023	\$39.11	\$9.40	\$16.89	\$0.00	\$65.40
For apprentice rates see "Apprentice- LABORER"						
AIR TRACK OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	06/01/2023	\$38.21	\$9.40	\$16.89	\$0.00	\$64.50
	12/01/2023	\$39.11	\$9.40	\$16.89	\$0.00	\$65.40
	06/01/2024	\$40.44	\$9.40	\$16.89	\$0.00	\$66.73
	12/01/2024	\$41.77	\$9.40	\$16.89	\$0.00	\$68.06
	06/01/2025	\$43.16	\$9.40	\$16.89	\$0.00	\$69.45
	12/01/2025	\$44.54	\$9.40	\$16.89	\$0.00	\$70.83
	06/01/2026	\$45.98	\$9.40	\$16.89	\$0.00	\$72.27
	12/01/2026	\$47.42	\$9.40	\$16.89	\$0.00	\$73.71
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
ASBESTOS REMOVER - PIPE / MECH. EQUIPT. <i>HEAT & FROST INSULATORS LOCAL 6 (BOSTON)</i>	12/01/2020	\$38.10	\$12.80	\$9.45	\$0.00	\$60.35
ASPHALT RAKER <i>LABORERS - ZONE 2</i>	06/01/2023	\$37.71	\$9.40	\$16.89	\$0.00	\$64.00
	12/01/2023	\$38.61	\$9.40	\$16.89	\$0.00	\$64.90
For apprentice rates see "Apprentice- LABORER"						
ASPHALT RAKER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	06/01/2023	\$37.71	\$9.40	\$16.89	\$0.00	\$64.00
	12/01/2023	\$38.61	\$9.40	\$16.89	\$0.00	\$64.90
	06/01/2024	\$39.94	\$9.40	\$16.89	\$0.00	\$66.23
	12/01/2024	\$41.27	\$9.40	\$16.89	\$0.00	\$67.56
	06/01/2025	\$42.66	\$9.40	\$16.89	\$0.00	\$68.95
	12/01/2025	\$44.04	\$9.40	\$16.89	\$0.00	\$70.33
	06/01/2026	\$45.48	\$9.40	\$16.89	\$0.00	\$71.77
	12/01/2026	\$46.92	\$9.40	\$16.89	\$0.00	\$73.21
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE <i>OPERATING ENGINEERS LOCAL 4</i>	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
BACKHOE/FRONT-END LOADER <i>OPERATING ENGINEERS LOCAL 4</i>	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>	06/01/2023	\$37.71	\$9.40	\$16.89	\$0.00	\$64.00
	12/01/2023	\$38.61	\$9.40	\$16.89	\$0.00	\$64.90
For apprentice rates see "Apprentice- LABORER"						
BLOCK PAVER, RAMMER / CURB SETTER <i>LABORERS - ZONE 2</i>	06/01/2023	\$38.21	\$9.40	\$16.89	\$0.00	\$64.50
	12/01/2023	\$39.11	\$9.40	\$16.89	\$0.00	\$65.40
For apprentice rates see "Apprentice- LABORER"						
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	06/01/2023	\$38.21	\$9.40	\$16.89	\$0.00	\$64.50
	12/01/2023	\$39.11	\$9.40	\$16.89	\$0.00	\$65.40
	06/01/2024	\$40.44	\$9.40	\$16.89	\$0.00	\$66.73
	12/01/2024	\$41.77	\$9.40	\$16.89	\$0.00	\$68.06
	06/01/2025	\$43.16	\$9.40	\$16.89	\$0.00	\$69.45
	12/01/2025	\$44.54	\$9.40	\$16.89	\$0.00	\$70.83
	06/01/2026	\$45.98	\$9.40	\$16.89	\$0.00	\$72.27
	12/01/2026	\$47.42	\$9.40	\$16.89	\$0.00	\$73.71
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

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

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)	02/01/2023	\$58.21	\$11.49	\$21.65	\$0.00	\$91.35
BRICKLAYERS LOCAL 3 (FOXBORO)	08/01/2023	\$60.26	\$11.49	\$21.65	\$0.00	\$93.40
	02/01/2024	\$61.51	\$11.49	\$21.65	\$0.00	\$94.65
	08/01/2024	\$63.61	\$11.49	\$21.65	\$0.00	\$96.75
	02/01/2025	\$64.91	\$11.49	\$21.65	\$0.00	\$98.05
	08/01/2025	\$67.06	\$11.49	\$21.65	\$0.00	\$100.20
	02/01/2026	\$68.41	\$11.49	\$21.65	\$0.00	\$101.55
	08/01/2026	\$70.61	\$11.49	\$21.65	\$0.00	\$103.75
	02/01/2027	\$72.01	\$11.49	\$21.65	\$0.00	\$105.15

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

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

Effective Date - 02/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$29.11	\$11.49	\$21.65	\$0.00	\$62.25
2	60	\$34.93	\$11.49	\$21.65	\$0.00	\$68.07
3	70	\$40.75	\$11.49	\$21.65	\$0.00	\$73.89
4	80	\$46.57	\$11.49	\$21.65	\$0.00	\$79.71
5	90	\$52.39	\$11.49	\$21.65	\$0.00	\$85.53

Effective Date - 08/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$30.13	\$11.49	\$21.65	\$0.00	\$63.27
2	60	\$36.16	\$11.49	\$21.65	\$0.00	\$69.30
3	70	\$42.18	\$11.49	\$21.65	\$0.00	\$75.32
4	80	\$48.21	\$11.49	\$21.65	\$0.00	\$81.35
5	90	\$54.23	\$11.49	\$21.65	\$0.00	\$87.37

Notes:

Apprentice to Journeyworker Ratio:1:5

BULLDOZER/GRADER/SCRAPER	06/01/2023	\$54.29	\$14.25	\$16.05	\$0.00	\$84.59
<i>OPERATING ENGINEERS LOCAL 4</i>	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	06/01/2023	\$44.73	\$9.40	\$17.97	\$0.00	\$72.10
<i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2023	\$45.98	\$9.40	\$17.97	\$0.00	\$73.35
	06/01/2024	\$47.46	\$9.40	\$17.97	\$0.00	\$74.83
	12/01/2024	\$48.93	\$9.40	\$17.97	\$0.00	\$76.30
	06/01/2025	\$50.43	\$9.40	\$17.97	\$0.00	\$77.80
	12/01/2025	\$51.93	\$9.40	\$17.97	\$0.00	\$79.30
	06/01/2026	\$53.48	\$9.40	\$17.97	\$0.00	\$80.85
	12/01/2026	\$54.98	\$9.40	\$17.97	\$0.00	\$82.35

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>	06/01/2023	\$43.58	\$9.40	\$17.97	\$0.00	\$70.95
	12/01/2023	\$44.83	\$9.40	\$17.97	\$0.00	\$72.20
	06/01/2024	\$46.31	\$9.40	\$17.97	\$0.00	\$73.68
	12/01/2024	\$47.78	\$9.40	\$17.97	\$0.00	\$75.15
	06/01/2025	\$49.28	\$9.40	\$17.97	\$0.00	\$76.65
	12/01/2025	\$50.78	\$9.40	\$17.97	\$0.00	\$78.15
	06/01/2026	\$52.33	\$9.40	\$17.97	\$0.00	\$79.70
	12/01/2026	\$53.83	\$9.40	\$17.97	\$0.00	\$81.20
For apprentice rates see "Apprentice- LABORER"						
CAISSON & UNDERPINNING TOP MAN <i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2023	\$43.58	\$9.40	\$17.97	\$0.00	\$70.95
	12/01/2023	\$44.83	\$9.40	\$17.97	\$0.00	\$72.20
	06/01/2024	\$46.31	\$9.40	\$17.97	\$0.00	\$73.68
	12/01/2024	\$47.78	\$9.40	\$17.97	\$0.00	\$75.15
	06/01/2025	\$49.28	\$9.40	\$17.97	\$0.00	\$76.65
	12/01/2025	\$50.78	\$9.40	\$17.97	\$0.00	\$78.15
	06/01/2026	\$52.33	\$9.40	\$17.97	\$0.00	\$79.70
	12/01/2026	\$53.83	\$9.40	\$17.97	\$0.00	\$81.20
For apprentice rates see "Apprentice- LABORER"						
CARBIDE CORE DRILL OPERATOR <i>LABORERS - ZONE 2</i>	06/01/2023	\$37.71	\$9.40	\$16.89	\$0.00	\$64.00
	12/01/2023	\$38.61	\$9.40	\$16.89	\$0.00	\$64.90
For apprentice rates see "Apprentice- LABORER"						
CARPENTER <i>CARPENTERS -ZONE 2 (Eastern Massachusetts)</i>	03/01/2023	\$45.12	\$9.33	\$19.97	\$0.00	\$74.42

Apprentice - CARPENTER - Zone 2 Eastern MA

Effective Date - 03/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.56	\$9.33	\$1.73	\$0.00	\$33.62
2	60	\$27.07	\$9.33	\$1.73	\$0.00	\$38.13
3	70	\$31.58	\$9.33	\$14.78	\$0.00	\$55.69
4	75	\$33.84	\$9.33	\$14.78	\$0.00	\$57.95
5	80	\$36.10	\$9.33	\$16.51	\$0.00	\$61.94
6	80	\$36.10	\$9.33	\$16.51	\$0.00	\$61.94
7	90	\$40.61	\$9.33	\$18.24	\$0.00	\$68.18
8	90	\$40.61	\$9.33	\$18.24	\$0.00	\$68.18

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>	04/01/2023	\$24.16	\$7.21	\$4.80	\$0.00	\$36.17
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All Aspects of New Wood Frame Work

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - CARPENTER (Wood Frame) - Zone 3

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 (FOXBORO)	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 - Foxboro

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	\$17.99	\$0.87	\$61.28
3	65	\$32.14	\$12.75	\$18.99	\$0.87	\$64.75
4	70	\$34.62	\$12.75	\$19.99	\$0.87	\$68.23
5	75	\$37.09	\$12.75	\$20.99	\$0.87	\$71.70
6	80	\$39.56	\$12.75	\$21.99	\$0.87	\$75.17
7	90	\$44.51	\$12.75	\$22.99	\$0.87	\$81.12

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	\$17.99	\$0.87	\$61.96
3	65	\$32.88	\$12.75	\$18.99	\$0.87	\$65.49
4	70	\$35.41	\$12.75	\$19.99	\$0.87	\$69.02
5	75	\$37.94	\$12.75	\$20.99	\$0.87	\$72.55
6	80	\$40.47	\$12.75	\$21.99	\$0.87	\$76.08
7	90	\$45.53	\$12.75	\$22.99	\$0.87	\$82.14

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

Apprentice to Journeyworker Ratio:1:3

CHAIN SAW OPERATOR LABORERS - ZONE 2	06/01/2023	\$37.71	\$9.40	\$16.89	\$0.00	\$64.00
	12/01/2023	\$38.61	\$9.40	\$16.89	\$0.00	\$64.90

For apprentice rates see "Apprentice- LABORER"

CLAM SHELLS/SLURRY BUCKETS/HEADING MACHINES 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"

COMPRESSOR OPERATOR OPERATING ENGINEERS LOCAL 4	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

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
DELEADER (BRIDGE) PAINTERS LOCAL 35 - ZONE 2	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 LABORERS - ZONE 2	06/01/2023	\$43.73	\$9.40	\$17.82	\$0.00	\$70.95
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For apprentice rates see "Apprentice- LABORER"

DEMO: BACKHOE/LOADER/HAMMER OPERATOR LABORERS - ZONE 2	06/01/2023	\$44.73	\$9.40	\$17.82	\$0.00	\$71.95
	12/01/2023	\$45.98	\$9.40	\$17.82	\$0.00	\$73.20

For apprentice rates see "Apprentice- LABORER"

DEMO: BURNERS LABORERS - ZONE 2	06/01/2023	\$44.48	\$9.40	\$17.82	\$0.00	\$71.70
	12/01/2023	\$45.73	\$9.40	\$17.82	\$0.00	\$72.95

For apprentice rates see "Apprentice- LABORER"

DEMO: CONCRETE CUTTER/SAWYER LABORERS - ZONE 2	06/01/2023	\$44.73	\$9.40	\$17.82	\$0.00	\$71.95
	12/01/2023	\$45.98	\$9.40	\$17.82	\$0.00	\$73.20

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
DEMO: JACKHAMMER OPERATOR <i>LABORERS - ZONE 2</i>	06/01/2023	\$44.48	\$9.40	\$17.82	\$0.00	\$71.70
	12/01/2023	\$45.73	\$9.40	\$17.82	\$0.00	\$72.95
For apprentice rates see "Apprentice- LABORER"						
DEMO: WRECKING LABORER <i>LABORERS - ZONE 2</i>	06/01/2023	\$43.73	\$9.40	\$17.82	\$0.00	\$70.95
	12/01/2023	\$44.98	\$9.40	\$17.82	\$0.00	\$72.20
For apprentice rates see "Apprentice- LABORER"						
DIRECTIONAL DRILL MACHINE OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	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 1)</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 1)</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 1)</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 1)</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 103</i>	03/01/2023	\$59.23	\$13.00	\$21.63	\$0.00	\$93.86

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - ELECTRICIAN - Local 103

Effective Date - 03/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$23.69	\$13.00	\$0.71	\$0.00	\$37.40
2	40	\$23.69	\$13.00	\$0.71	\$0.00	\$37.40
3	45	\$26.65	\$13.00	\$16.13	\$0.00	\$55.78
4	45	\$26.65	\$13.00	\$16.13	\$0.00	\$55.78
5	50	\$29.62	\$13.00	\$16.63	\$0.00	\$59.25
6	55	\$32.58	\$13.00	\$17.13	\$0.00	\$62.71
7	60	\$35.54	\$13.00	\$17.63	\$0.00	\$66.17
8	65	\$38.50	\$13.00	\$18.13	\$0.00	\$69.63
9	70	\$41.46	\$13.00	\$18.62	\$0.00	\$73.08
10	75	\$44.42	\$13.00	\$19.13	\$0.00	\$76.55

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

Apprentice to Journeyworker Ratio:2:3***

ELEVATOR CONSTRUCTOR ELEVATOR CONSTRUCTORS LOCAL 4	01/01/2022	\$65.62	\$16.03	\$20.21	\$0.00	\$101.86
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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
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For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"

FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY) LABORERS - ZONE 2 (HEAVY & HIGHWAY)	06/01/2023	\$37.71	\$9.40	\$16.89	\$0.00	\$64.00
	12/01/2023	\$38.61	\$9.40	\$16.89	\$0.00	\$64.90
	06/01/2024	\$39.94	\$9.40	\$16.89	\$0.00	\$66.23
	12/01/2024	\$41.27	\$9.40	\$16.89	\$0.00	\$67.56
	06/01/2025	\$42.66	\$9.40	\$16.89	\$0.00	\$68.95
	12/01/2025	\$44.04	\$9.40	\$16.89	\$0.00	\$70.33
	06/01/2026	\$45.48	\$9.40	\$16.89	\$0.00	\$71.77
	12/01/2026	\$46.92	\$9.40	\$16.89	\$0.00	\$73.21

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
FIELD ENG.INST.PERSON-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	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 <i>OPERATING ENGINEERS LOCAL 4</i>	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 <i>OPERATING ENGINEERS LOCAL 4</i>	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 <i>ELECTRICIANS LOCAL 103</i>	03/01/2023	\$59.23	\$13.00	\$21.63	\$0.00	\$93.86
For apprentice rates see "Apprentice- ELECTRICIAN"						
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING <i>ELECTRICIANS LOCAL 103</i>	03/01/2023	\$48.34	\$13.00	\$19.01	\$0.00	\$80.35
For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"						
FIREMAN (ASST. ENGINEER) <i>OPERATING ENGINEERS LOCAL 4</i>	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"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FLAGGER & SIGNALER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	06/01/2023	\$25.98	\$9.40	\$16.89	\$0.00	\$52.27
	12/01/2023	\$25.98	\$9.40	\$16.89	\$0.00	\$52.27
	06/01/2024	\$27.01	\$9.40	\$16.89	\$0.00	\$53.30
	12/01/2024	\$27.01	\$9.40	\$16.89	\$0.00	\$53.30
	06/01/2025	\$28.09	\$9.40	\$16.89	\$0.00	\$54.38
	12/01/2025	\$28.09	\$9.40	\$16.89	\$0.00	\$54.38
	06/01/2026	\$29.21	\$9.40	\$16.89	\$0.00	\$55.50
	12/01/2026	\$29.21	\$9.40	\$16.89	\$0.00	\$55.50

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)

FLOORCOVERER <i>FLOORCOVERERS LOCAL 2168 ZONE 1</i>	03/01/2022	\$51.77	\$9.33	\$20.27	\$0.00	\$81.37
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Apprentice - FLOORCOVERER - Local 2168 Zone 1

Effective Date - 03/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.89	\$9.33	\$1.79	\$0.00	\$37.01
2	55	\$28.47	\$9.33	\$1.79	\$0.00	\$39.59
3	60	\$31.06	\$9.33	\$14.90	\$0.00	\$55.29
4	65	\$33.65	\$9.33	\$14.90	\$0.00	\$57.88
5	70	\$36.24	\$9.33	\$16.69	\$0.00	\$62.26
6	75	\$38.83	\$9.33	\$16.69	\$0.00	\$64.85
7	80	\$41.42	\$9.33	\$18.48	\$0.00	\$69.23
8	85	\$44.00	\$9.33	\$18.48	\$0.00	\$71.81

Notes: Steps are 750 hrs.
 % After 10/1/17; 45/45/55/55/70/70/80/80 (1500hr Steps)
 Step 1&2 \$32.94/ 3&4 \$39.66/ 5&6 \$60.32/ 7&8 \$67.10

Apprentice to Journeyworker Ratio:1:1

FORK LIFT/CHERRY PICKER <i>OPERATING ENGINEERS LOCAL 4</i>	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>	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"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) <i>GLAZIERS LOCAL 35 (ZONE 2)</i>	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 - GLAZIER - Local 35 Zone 2

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

HOISTING ENGINEER/CRANES/GRADALLS <i>OPERATING ENGINEERS LOCAL 4</i>	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

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - OPERATING ENGINEERS - Local 4

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

Effective Date - 12/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$30.87	\$14.25	\$0.00	\$0.00	\$45.12
2	60	\$33.68	\$14.25	\$16.05	\$0.00	\$63.98
3	65	\$36.48	\$14.25	\$16.05	\$0.00	\$66.78
4	70	\$39.29	\$14.25	\$16.05	\$0.00	\$69.59
5	75	\$42.10	\$14.25	\$16.05	\$0.00	\$72.40
6	80	\$44.90	\$14.25	\$16.05	\$0.00	\$75.20
7	85	\$47.71	\$14.25	\$16.05	\$0.00	\$78.01
8	90	\$50.52	\$14.25	\$16.05	\$0.00	\$80.82

Notes:

Apprentice to Journeyworker Ratio:1:6

HVAC (DUCTWORK) SHEETMETAL WORKERS LOCAL 17 - A	02/01/2023	\$55.31	\$14.11	\$26.64	\$2.83	\$98.89
	08/01/2023	\$57.01	\$14.11	\$26.64	\$2.83	\$100.59
	02/01/2024	\$58.71	\$14.11	\$26.64	\$2.83	\$102.29
	08/01/2024	\$60.46	\$14.11	\$26.64	\$2.83	\$104.04
	02/01/2025	\$62.21	\$14.11	\$26.64	\$2.83	\$105.79
	08/01/2025	\$64.06	\$14.11	\$26.64	\$2.83	\$107.64
	02/01/2026	\$66.01	\$14.11	\$26.64	\$2.83	\$109.59

For apprentice rates see "Apprentice- SHEET METAL WORKER"

HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 103	03/01/2023	\$59.23	\$13.00	\$21.63	\$0.00	\$93.86
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For apprentice rates see "Apprentice- ELECTRICIAN"

HVAC (TESTING AND BALANCING - AIR) SHEETMETAL WORKERS LOCAL 17 - A	02/01/2023	\$55.31	\$14.11	\$26.64	\$2.83	\$98.89
	08/01/2023	\$57.01	\$14.11	\$26.64	\$2.83	\$100.59
	02/01/2024	\$58.71	\$14.11	\$26.64	\$2.83	\$102.29
	08/01/2024	\$60.46	\$14.11	\$26.64	\$2.83	\$104.04
	02/01/2025	\$62.21	\$14.11	\$26.64	\$2.83	\$105.79
	08/01/2025	\$64.06	\$14.11	\$26.64	\$2.83	\$107.64
	02/01/2026	\$66.01	\$14.11	\$26.64	\$2.83	\$109.59

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- SHEET METAL WORKER"						
HVAC (TESTING AND BALANCING -WATER) <i>PIPEFITTERS LOCAL 537</i>	03/01/2023	\$63.43	\$12.50	\$20.80	\$0.00	\$96.73
	09/01/2023	\$65.18	\$12.50	\$20.80	\$0.00	\$98.48
	03/01/2024	\$66.98	\$12.50	\$20.80	\$0.00	\$100.28
	09/01/2024	\$68.78	\$12.50	\$20.80	\$0.00	\$102.08
	03/01/2025	\$70.58	\$12.50	\$20.80	\$0.00	\$103.88
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HVAC MECHANIC <i>PIPEFITTERS LOCAL 537</i>	03/01/2023	\$63.43	\$12.25	\$20.80	\$0.00	\$96.48
	09/01/2023	\$65.18	\$12.25	\$20.80	\$0.00	\$98.23
	03/01/2024	\$66.98	\$12.25	\$20.80	\$0.00	\$100.03
	09/01/2024	\$68.78	\$12.25	\$20.80	\$0.00	\$101.83
	03/01/2025	\$70.58	\$12.25	\$20.80	\$0.00	\$103.63
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HYDRAULIC DRILLS <i>LABORERS - ZONE 2</i>	06/01/2023	\$38.21	\$9.40	\$16.89	\$0.00	\$64.50
	12/01/2023	\$39.11	\$9.40	\$16.89	\$0.00	\$65.40
For apprentice rates see "Apprentice- LABORER"						
HYDRAULIC DRILLS (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	06/01/2023	\$38.21	\$9.40	\$16.89	\$0.00	\$64.50
	12/01/2023	\$39.11	\$9.40	\$16.89	\$0.00	\$65.40
	06/01/2024	\$40.44	\$9.40	\$16.89	\$0.00	\$66.73
	12/01/2024	\$41.77	\$9.40	\$16.89	\$0.00	\$68.06
	06/01/2025	\$43.16	\$9.40	\$16.89	\$0.00	\$69.45
	12/01/2025	\$44.54	\$9.40	\$16.89	\$0.00	\$70.83
	06/01/2026	\$45.98	\$9.40	\$16.89	\$0.00	\$72.27
	12/01/2026	\$47.42	\$9.40	\$16.89	\$0.00	\$73.71
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
INSULATOR (PIPES & TANKS) <i>HEAT & FROST INSULATORS LOCAL 6 (BOSTON)</i>	09/01/2022	\$53.85	\$13.80	\$17.14	\$0.00	\$84.79

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

Effective Date - 09/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.93	\$13.80	\$12.42	\$0.00	\$53.15
2	60	\$32.31	\$13.80	\$13.36	\$0.00	\$59.47
3	70	\$37.70	\$13.80	\$14.31	\$0.00	\$65.81
4	80	\$43.08	\$13.80	\$15.25	\$0.00	\$72.13

Notes:

Steps are 1 year

Apprentice to Journeyworker Ratio:1:4

IRONWORKER/WELDER <i>IRONWORKERS LOCAL 7 (BOSTON AREA)</i>	03/16/2023	\$52.72	\$8.35	\$26.70	\$0.00	\$87.77
	03/16/2024	\$53.97	\$8.35	\$26.70	\$0.00	\$89.02

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - IRONWORKER - Local 7 Boston

Effective Date - 03/16/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$31.63	\$8.35	\$26.70	\$0.00	\$66.68
2	70	\$36.90	\$8.35	\$26.70	\$0.00	\$71.95
3	75	\$39.54	\$8.35	\$26.70	\$0.00	\$74.59
4	80	\$42.18	\$8.35	\$26.70	\$0.00	\$77.23
5	85	\$44.81	\$8.35	\$26.70	\$0.00	\$79.86
6	90	\$47.45	\$8.35	\$26.70	\$0.00	\$82.50

Effective Date - 03/16/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$32.38	\$8.35	\$26.70	\$0.00	\$67.43
2	70	\$37.78	\$8.35	\$26.70	\$0.00	\$72.83
3	75	\$40.48	\$8.35	\$26.70	\$0.00	\$75.53
4	80	\$43.18	\$8.35	\$26.70	\$0.00	\$78.23
5	85	\$45.87	\$8.35	\$26.70	\$0.00	\$80.92
6	90	\$48.57	\$8.35	\$26.70	\$0.00	\$83.62

Notes:

Apprentice to Journeyworker Ratio:1:4

JACKHAMMER & PAVING BREAKER OPERATOR	06/01/2023	\$37.71	\$9.40	\$16.89	\$0.00	\$64.00
LABORERS - ZONE 2	12/01/2023	\$38.61	\$9.40	\$16.89	\$0.00	\$64.90
For apprentice rates see "Apprentice- LABORER"						
LABORER	06/01/2023	\$37.46	\$9.40	\$16.89	\$0.00	\$63.75
LABORERS - ZONE 2	12/01/2023	\$38.36	\$9.40	\$16.89	\$0.00	\$64.65

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - LABORER - Zone 2

Effective Date - 06/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$22.48	\$9.40	\$16.89	\$0.00	\$48.77
2	70	\$26.22	\$9.40	\$16.89	\$0.00	\$52.51
3	80	\$29.97	\$9.40	\$16.89	\$0.00	\$56.26
4	90	\$33.71	\$9.40	\$16.89	\$0.00	\$60.00

Effective Date - 12/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$23.02	\$9.40	\$16.89	\$0.00	\$49.31
2	70	\$26.85	\$9.40	\$16.89	\$0.00	\$53.14
3	80	\$30.69	\$9.40	\$16.89	\$0.00	\$56.98
4	90	\$34.52	\$9.40	\$16.89	\$0.00	\$60.81

Notes:

Apprentice to Journeyworker Ratio:1:5

LABORER (HEAVY & HIGHWAY)	06/01/2023	\$37.46	\$9.40	\$16.89	\$0.00	\$63.75
LABORERS - ZONE 2 (HEAVY & HIGHWAY)	12/01/2023	\$38.36	\$9.40	\$16.89	\$0.00	\$64.65
	06/01/2024	\$39.69	\$9.40	\$16.89	\$0.00	\$65.98
	12/01/2024	\$41.02	\$9.40	\$16.89	\$0.00	\$67.31
	06/01/2025	\$42.41	\$9.40	\$16.89	\$0.00	\$68.70
	12/01/2025	\$43.79	\$9.40	\$16.89	\$0.00	\$70.08
	06/01/2026	\$45.23	\$9.40	\$16.89	\$0.00	\$71.52
	12/01/2026	\$46.67	\$9.40	\$16.89	\$0.00	\$72.96

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - LABORER (Heavy & Highway) - Zone 2

Effective Date - 06/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$22.48	\$9.40	\$16.89	\$0.00	\$48.77
2	70	\$26.22	\$9.40	\$16.89	\$0.00	\$52.51
3	80	\$29.97	\$9.40	\$16.89	\$0.00	\$56.26
4	90	\$33.71	\$9.40	\$16.89	\$0.00	\$60.00

Effective Date - 12/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$23.02	\$9.40	\$16.89	\$0.00	\$49.31
2	70	\$26.85	\$9.40	\$16.89	\$0.00	\$53.14
3	80	\$30.69	\$9.40	\$16.89	\$0.00	\$56.98
4	90	\$34.52	\$9.40	\$16.89	\$0.00	\$60.81

Notes:

Apprentice to Journeyworker Ratio:1:5

LABORER: CARPENTER TENDER LABORERS - ZONE 2	06/01/2023	\$37.46	\$9.40	\$16.89	\$0.00	\$63.75
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For apprentice rates see "Apprentice- LABORER"

	12/01/2023	\$38.36	\$9.40	\$16.89	\$0.00	\$64.65
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LABORER: CEMENT FINISHER TENDER LABORERS - ZONE 2	06/01/2023	\$37.46	\$9.40	\$16.89	\$0.00	\$63.75
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For apprentice rates see "Apprentice- LABORER"

	12/01/2023	\$38.36	\$9.40	\$16.89	\$0.00	\$64.65
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LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER LABORERS - ZONE 2	06/01/2023	\$37.55	\$9.40	\$16.95	\$0.00	\$63.90
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For apprentice rates see "Apprentice- LABORER"

	12/01/2023	\$38.45	\$9.40	\$16.95	\$0.00	\$64.80
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LABORER: MASON TENDER LABORERS - ZONE 2	06/01/2023	\$37.71	\$9.40	\$16.89	\$0.00	\$64.00
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For apprentice rates see "Apprentice- LABORER"

	12/01/2023	\$38.61	\$9.40	\$16.89	\$0.00	\$64.90
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LABORER: MASON TENDER (HEAVY & HIGHWAY) LABORERS - ZONE 2 (HEAVY & HIGHWAY)	06/01/2023	\$37.71	\$9.40	\$16.89	\$0.00	\$64.00
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	12/01/2023	\$38.61	\$9.40	\$16.89	\$0.00	\$64.90
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	06/01/2024	\$39.94	\$9.40	\$16.89	\$0.00	\$66.23
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	12/01/2024	\$41.27	\$9.40	\$16.89	\$0.00	\$67.56
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	06/01/2025	\$42.66	\$9.40	\$16.89	\$0.00	\$68.95
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	12/01/2025	\$44.04	\$9.40	\$16.89	\$0.00	\$70.33
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	06/01/2026	\$45.48	\$9.40	\$16.89	\$0.00	\$71.77
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	12/01/2026	\$46.92	\$9.40	\$16.89	\$0.00	\$73.21
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For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"

LABORER: MULTI-TRADE TENDER LABORERS - ZONE 2	06/01/2023	\$37.46	\$9.40	\$16.89	\$0.00	\$63.75
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For apprentice rates see "Apprentice- LABORER"

	12/01/2023	\$38.36	\$9.40	\$16.89	\$0.00	\$64.65
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LABORER: TREE REMOVER LABORERS - ZONE 2	06/01/2023	\$37.46	\$9.40	\$16.89	\$0.00	\$63.75
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	12/01/2023	\$38.36	\$9.40	\$16.89	\$0.00	\$64.65
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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"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LASER BEAM OPERATOR <i>LABORERS - ZONE 2</i>	06/01/2023	\$37.71	\$9.40	\$16.89	\$0.00	\$64.00
	12/01/2023	\$38.61	\$9.40	\$16.89	\$0.00	\$64.90
For apprentice rates see "Apprentice- LABORER"						
LASER BEAM OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	06/01/2023	\$37.71	\$9.40	\$16.89	\$0.00	\$64.00
	12/01/2023	\$38.61	\$9.40	\$16.89	\$0.00	\$64.90
	06/01/2024	\$39.94	\$9.40	\$16.89	\$0.00	\$66.23
	12/01/2024	\$41.27	\$9.40	\$16.89	\$0.00	\$67.56
	06/01/2025	\$42.66	\$9.40	\$16.89	\$0.00	\$68.95
	12/01/2025	\$44.04	\$9.40	\$16.89	\$0.00	\$70.33
	06/01/2026	\$45.48	\$9.40	\$16.89	\$0.00	\$71.77
	12/01/2026	\$46.92	\$9.40	\$16.89	\$0.00	\$73.21
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

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
MARBLE MASONS, TILELAYERS & TERRAZZO MECH <i>BRICKLAYERS LOCAL 3 - MARBLE & TILE</i>	02/01/2023	\$60.37	\$11.49	\$22.31	\$0.00	\$94.17
	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) <i>OPERATING ENGINEERS LOCAL 4</i>	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
MECHANICS MAINTENANCE <i>OPERATING ENGINEERS LOCAL 4</i>	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) <i>MILLWRIGHTS LOCAL 1121 - Zone 2</i>	01/02/2023	\$41.92	\$8.58	\$21.57	\$0.00	\$72.07
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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

MORTAR MIXER <i>LABORERS - ZONE 2</i>	06/01/2023	\$37.71	\$9.40	\$16.89	\$0.00	\$64.00
	12/01/2023	\$38.61	\$9.40	\$16.89	\$0.00	\$64.90

For apprentice rates see "Apprentice- LABORER"

OILER (OTHER THAN TRUCK CRANES,GRADALLS) <i>OPERATING ENGINEERS LOCAL 4</i>	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"

OILER (TRUCK CRANES, GRADALLS) <i>OPERATING ENGINEERS LOCAL 4</i>	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"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
OTHER POWER DRIVEN EQUIPMENT - CLASS II <i>OPERATING ENGINEERS LOCAL 4</i>	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"

PAINTER (BRIDGES/TANKS) <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

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PAINTER (SPRAY OR SANDBLAST, NEW) * * If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. <i>PAINTERS LOCAL 35 - ZONE 2</i>	01/01/2023	\$46.96	\$8.65	\$23.05	\$0.00	\$78.66
	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) <i>PAINTERS LOCAL 35 - ZONE 2</i>	01/01/2023	\$45.02	\$8.65	\$23.05	\$0.00	\$76.72
	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

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

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) *	01/01/2023	\$45.56	\$8.65	\$23.05	\$0.00	\$77.26
* 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	\$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

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)	06/01/2023	\$37.46	\$9.40	\$16.89	\$0.00	\$63.75
LABORERS - ZONE 2 (HEAVY & HIGHWAY)	12/01/2023	\$38.36	\$9.40	\$16.89	\$0.00	\$64.65
	06/01/2024	\$39.69	\$9.40	\$16.89	\$0.00	\$65.98
	12/01/2024	\$41.02	\$9.40	\$16.89	\$0.00	\$67.31
	06/01/2025	\$42.41	\$9.40	\$16.89	\$0.00	\$68.70
	12/01/2025	\$43.79	\$9.40	\$16.89	\$0.00	\$70.08
	06/01/2026	\$45.23	\$9.40	\$16.89	\$0.00	\$71.52
	12/01/2026	\$46.67	\$9.40	\$16.89	\$0.00	\$72.96

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	\$49.07	\$9.40	\$23.12	\$0.00	\$81.59
PILE DRIVER LOCAL 56 (ZONE 1)						

For apprentice rates see "Apprentice- PILE DRIVER"

PILE DRIVER	08/01/2020	\$49.07	\$9.40	\$23.12	\$0.00	\$81.59
PILE DRIVER LOCAL 56 (ZONE 1)						

Apprentice - PILE DRIVER - Local 56 Zone 1

Effective Date - 08/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.54	\$9.40	\$23.12	\$0.00	\$57.06
2	60	\$29.44	\$9.40	\$23.12	\$0.00	\$61.96
3	70	\$34.35	\$9.40	\$23.12	\$0.00	\$66.87
4	75	\$36.80	\$9.40	\$23.12	\$0.00	\$69.32
5	80	\$39.26	\$9.40	\$23.12	\$0.00	\$71.78
6	80	\$39.26	\$9.40	\$23.12	\$0.00	\$71.78
7	90	\$44.16	\$9.40	\$23.12	\$0.00	\$76.68
8	90	\$44.16	\$9.40	\$23.12	\$0.00	\$76.68

Notes:

% Indentured After 10/1/17; 45/45/55/55/70/70/80/80
 Step 1&2 \$34.01/ 3&4 \$41.46/ 5&6 \$62.80/ 7&8 \$69.25

Apprentice to Journeyworker Ratio:1:5

PIPEFITTER & STEAMFITTER
PIPEFITTERS LOCAL 537

03/01/2023	\$63.43	\$12.25	\$20.80	\$0.00	\$96.48
09/01/2023	\$65.18	\$12.25	\$20.80	\$0.00	\$98.23
03/01/2024	\$66.98	\$12.25	\$20.80	\$0.00	\$100.03
09/01/2024	\$68.78	\$12.25	\$20.80	\$0.00	\$101.83
03/01/2025	\$70.58	\$12.25	\$20.80	\$0.00	\$103.63

Apprentice - PIPEFITTER - Local 537

Effective Date - 03/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$25.37	\$12.25	\$8.55	\$0.00	\$46.17
2	45	\$28.54	\$12.25	\$20.80	\$0.00	\$61.59
3	60	\$38.06	\$12.25	\$20.80	\$0.00	\$71.11
4	70	\$44.40	\$12.25	\$20.80	\$0.00	\$77.45
5	80	\$50.74	\$12.25	\$20.80	\$0.00	\$83.79

Effective Date - 09/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$26.07	\$12.25	\$8.55	\$0.00	\$46.87
2	45	\$29.33	\$12.25	\$20.80	\$0.00	\$62.38
3	60	\$39.11	\$12.25	\$20.80	\$0.00	\$72.16
4	70	\$45.63	\$12.25	\$20.80	\$0.00	\$78.68
5	80	\$52.14	\$12.25	\$20.80	\$0.00	\$85.19

Notes:

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

Apprentice to Journeyworker Ratio:**

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PIPELAYER <i>LABORERS - ZONE 2</i>	06/01/2023	\$37.71	\$9.40	\$16.89	\$0.00	\$64.00
	12/01/2023	\$38.61	\$9.40	\$16.89	\$0.00	\$64.90
For apprentice rates see "Apprentice- LABORER"						
PIPELAYER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	06/01/2023	\$37.71	\$9.40	\$16.89	\$0.00	\$64.00
	12/01/2023	\$38.61	\$9.40	\$16.89	\$0.00	\$64.90
	06/01/2024	\$39.94	\$9.40	\$16.89	\$0.00	\$66.23
	12/01/2024	\$41.27	\$9.40	\$16.89	\$0.00	\$67.56
	06/01/2025	\$42.66	\$9.40	\$16.89	\$0.00	\$68.95
	12/01/2025	\$44.04	\$9.40	\$16.89	\$0.00	\$70.33
	06/01/2026	\$45.48	\$9.40	\$16.89	\$0.00	\$71.77
12/01/2026	\$46.92	\$9.40	\$16.89	\$0.00	\$73.21	
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
PLUMBERS & GASFITTERS <i>PLUMBERS & GASFITTERS LOCAL 12</i>	02/26/2023	\$64.69	\$14.07	\$18.86	\$0.00	\$97.62
	09/03/2023	\$66.44	\$14.07	\$18.86	\$0.00	\$99.37
	03/03/2024	\$68.24	\$14.07	\$18.86	\$0.00	\$101.17
	09/01/2024	\$70.04	\$14.07	\$18.86	\$0.00	\$102.97
	03/02/2025	\$71.84	\$14.07	\$18.86	\$0.00	\$104.77

Apprentice - PLUMBER/GASFITTER - Local 12

Effective Date - 02/26/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$22.64	\$14.07	\$6.80	\$0.00	\$43.51
2	40	\$25.88	\$14.07	\$7.72	\$0.00	\$47.67
3	55	\$35.58	\$14.07	\$10.51	\$0.00	\$60.16
4	65	\$42.05	\$14.07	\$12.36	\$0.00	\$68.48
5	75	\$48.52	\$14.07	\$14.22	\$0.00	\$76.81

Effective Date - 09/03/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$23.25	\$14.07	\$6.80	\$0.00	\$44.12
2	40	\$26.58	\$14.07	\$7.72	\$0.00	\$48.37
3	55	\$36.54	\$14.07	\$10.51	\$0.00	\$61.12
4	65	\$43.19	\$14.07	\$12.36	\$0.00	\$69.62
5	75	\$49.83	\$14.07	\$14.22	\$0.00	\$78.12

Notes:

** 1:2; 2:6; 3:10; 4:14; 5:19/Steps are 1 yr
Step4 with lic\$69.00, Step5 with lic\$76.87

Apprentice to Journeyworker Ratio:**

PNEUMATIC CONTROLS (TEMP.) <i>PIPEFITTERS LOCAL 537</i>	03/01/2023	\$63.43	\$12.00	\$20.80	\$0.00	\$96.23
	09/01/2023	\$65.18	\$12.00	\$20.80	\$0.00	\$97.98
	03/01/2024	\$66.98	\$12.00	\$20.80	\$0.00	\$99.78
	09/01/2024	\$68.78	\$12.00	\$20.80	\$0.00	\$101.58
	03/01/2025	\$70.58	\$12.00	\$20.80	\$0.00	\$103.38

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

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PNEUMATIC DRILL/TOOL OPERATOR <i>LABORERS - ZONE 2</i>	06/01/2023	\$37.71	\$9.40	\$16.89	\$0.00	\$64.00
	12/01/2023	\$38.61	\$9.40	\$16.89	\$0.00	\$64.90
For apprentice rates see "Apprentice- LABORER"						
PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	06/01/2023	\$37.71	\$9.40	\$16.89	\$0.00	\$64.00
	12/01/2023	\$38.61	\$9.40	\$16.89	\$0.00	\$64.90
	06/01/2024	\$39.94	\$9.40	\$16.89	\$0.00	\$66.23
	12/01/2024	\$41.27	\$9.40	\$16.89	\$0.00	\$67.56
	06/01/2025	\$42.66	\$9.40	\$16.89	\$0.00	\$68.95
	12/01/2025	\$44.04	\$9.40	\$16.89	\$0.00	\$70.33
	06/01/2026	\$45.48	\$9.40	\$16.89	\$0.00	\$71.77
	12/01/2026	\$46.92	\$9.40	\$16.89	\$0.00	\$73.21
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
POWDERMAN & BLASTER <i>LABORERS - ZONE 2</i>	06/01/2023	\$38.46	\$9.40	\$16.89	\$0.00	\$64.75
	12/01/2023	\$39.36	\$9.40	\$16.89	\$0.00	\$65.65
For apprentice rates see "Apprentice- LABORER"						
POWDERMAN & BLASTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	06/01/2023	\$38.46	\$9.40	\$16.89	\$0.00	\$64.75
	12/01/2023	\$39.36	\$9.40	\$16.89	\$0.00	\$65.65
	06/01/2024	\$40.69	\$9.40	\$16.89	\$0.00	\$66.98
	12/01/2024	\$42.02	\$9.40	\$16.89	\$0.00	\$68.31
	06/01/2025	\$43.41	\$9.40	\$16.89	\$0.00	\$69.70
	12/01/2025	\$44.79	\$9.40	\$16.89	\$0.00	\$71.08
	06/01/2026	\$46.23	\$9.40	\$16.89	\$0.00	\$72.52
	12/01/2026	\$47.67	\$9.40	\$16.89	\$0.00	\$73.96
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
POWER SHOVEL/DERRICK/TRENCHING MACHINE <i>OPERATING ENGINEERS LOCAL 4</i>	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>	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>	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 170 - Dauphinais (Bellingham)</i>	01/01/2023	\$26.40	\$10.26	\$4.75	\$0.00	\$41.41
	12/01/2023	\$27.00	\$10.76	\$5.45	\$0.00	\$43.21
	01/01/2024	\$27.00	\$10.76	\$5.45	\$0.00	\$43.21
	12/01/2024	\$27.60	\$11.26	\$6.15	\$0.00	\$45.01
	01/01/2025	\$27.60	\$11.26	\$6.15	\$0.00	\$45.01
RECLAIMERS <i>OPERATING ENGINEERS LOCAL 4</i>	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>	06/01/2023	\$37.71	\$9.40	\$16.89	\$0.00	\$64.00
	12/01/2023	\$38.61	\$9.40	\$16.89	\$0.00	\$64.90
For apprentice rates see "Apprentice- LABORER"						
ROLLER/SPREADER/MULCHING MACHINE <i>OPERATING ENGINEERS LOCAL 4</i>	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.Roofing Waterproofing &Roofing 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

Notes: ** 1:5, 2:6-10, the 1:10; Reroofing: 1:4, then 1:1
 Step 1 is 2000 hrs.; Steps 2-5 are 1000 hrs.
 (Hot Pitch Mechanics' receive \$1.00 hr. above ROOFER)

Apprentice to Journeyworker Ratio:**

ROOFER SLATE / TILE / PRECAST CONCRETE	02/01/2023	\$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	02/01/2023	\$55.31	\$14.11	\$26.64	\$2.83	\$98.89
SHEETMETAL WORKERS LOCAL 17 - A	08/01/2023	\$57.01	\$14.11	\$26.64	\$2.83	\$100.59
	02/01/2024	\$58.71	\$14.11	\$26.64	\$2.83	\$102.29
	08/01/2024	\$60.46	\$14.11	\$26.64	\$2.83	\$104.04
	02/01/2025	\$62.21	\$14.11	\$26.64	\$2.83	\$105.79
	08/01/2025	\$64.06	\$14.11	\$26.64	\$2.83	\$107.64
	02/01/2026	\$66.01	\$14.11	\$26.64	\$2.83	\$109.59

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - SHEET METAL WORKER - Local 17-A

Effective Date - 02/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	42	\$23.23	\$14.11	\$6.13	\$0.00	\$43.47
2	42	\$23.23	\$14.11	\$6.13	\$0.00	\$43.47
3	47	\$26.00	\$14.11	\$11.90	\$1.54	\$53.55
4	47	\$26.00	\$14.11	\$11.90	\$1.54	\$53.55
5	52	\$28.76	\$14.11	\$12.88	\$1.65	\$57.40
6	52	\$28.76	\$14.11	\$13.13	\$1.65	\$57.65
7	60	\$33.19	\$14.11	\$14.54	\$1.83	\$63.67
8	65	\$35.95	\$14.11	\$15.52	\$1.94	\$67.52
9	75	\$41.48	\$14.11	\$17.48	\$2.16	\$75.23
10	85	\$47.01	\$14.11	\$18.94	\$2.36	\$82.42

Effective Date - 08/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	42	\$23.94	\$14.11	\$6.13	\$0.00	\$44.18
2	42	\$23.94	\$14.11	\$6.13	\$0.00	\$44.18
3	47	\$26.79	\$14.11	\$11.90	\$1.58	\$54.38
4	47	\$26.79	\$14.11	\$11.90	\$1.58	\$54.38
5	52	\$29.65	\$14.11	\$12.88	\$1.70	\$58.34
6	52	\$29.65	\$14.11	\$13.13	\$1.70	\$58.59
7	60	\$34.21	\$14.11	\$14.54	\$1.89	\$64.75
8	65	\$37.06	\$14.11	\$15.52	\$2.00	\$68.69
9	75	\$42.76	\$14.11	\$17.48	\$2.23	\$76.58
10	85	\$48.46	\$14.11	\$18.94	\$2.45	\$83.96

Notes:
Steps are 6 mos.

Apprentice to Journeyworker Ratio:1:4

SPECIALIZED EARTH MOVING EQUIP < 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2021	\$36.24	\$13.41	\$16.01	\$0.00	\$65.66
SPECIALIZED EARTH MOVING EQUIP > 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2021	\$36.53	\$13.41	\$16.01	\$0.00	\$65.95
SPRINKLER FITTER <i>SPRINKLER FITTERS LOCAL 550 - (Section A) Zone 1</i>	03/01/2023	\$66.20	\$10.90	\$23.20	\$0.00	\$100.30
	10/01/2023	\$67.95	\$10.90	\$23.20	\$0.00	\$102.05
	03/01/2024	\$69.75	\$10.90	\$23.20	\$0.00	\$103.85
	10/01/2024	\$71.55	\$10.90	\$23.20	\$0.00	\$105.65
	03/01/2025	\$73.35	\$10.90	\$23.20	\$0.00	\$107.45

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - SPRINKLER FITTER - Local 550 (Section A) Zone 1

Effective Date - 03/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$23.17	\$10.90	\$9.70	\$0.00	\$43.77
2	40	\$26.48	\$10.90	\$9.70	\$0.00	\$47.08
3	45	\$29.79	\$10.90	\$9.70	\$0.00	\$50.39
4	50	\$33.10	\$10.90	\$9.70	\$0.00	\$53.70
5	55	\$36.41	\$10.90	\$9.70	\$0.00	\$57.01
6	60	\$39.72	\$10.90	\$11.20	\$0.00	\$61.82
7	65	\$43.03	\$10.90	\$11.20	\$0.00	\$65.13
8	70	\$46.34	\$10.90	\$11.20	\$0.00	\$68.44
9	75	\$49.65	\$10.90	\$11.20	\$0.00	\$71.75
10	80	\$52.96	\$10.90	\$11.20	\$0.00	\$75.06

Effective Date - 10/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$23.78	\$10.90	\$9.70	\$0.00	\$44.38
2	40	\$27.18	\$10.90	\$9.70	\$0.00	\$47.78
3	45	\$30.58	\$10.90	\$9.70	\$0.00	\$51.18
4	50	\$33.98	\$10.90	\$9.70	\$0.00	\$54.58
5	55	\$37.37	\$10.90	\$9.70	\$0.00	\$57.97
6	60	\$40.77	\$10.90	\$11.20	\$0.00	\$62.87
7	65	\$44.17	\$10.90	\$11.20	\$0.00	\$66.27
8	70	\$47.57	\$10.90	\$11.20	\$0.00	\$69.67
9	75	\$50.96	\$10.90	\$11.20	\$0.00	\$73.06
10	80	\$54.36	\$10.90	\$11.20	\$0.00	\$76.46

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	06/01/2023	\$54.29	\$14.25	\$16.05	\$0.00	\$84.59
OPERATING ENGINEERS LOCAL 4	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>	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 103</i>	03/01/2023	\$47.38	\$13.00	\$19.63	\$0.00	\$80.01
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Apprentice - TELECOMMUNICATION TECHNICIAN - Local 103

Effective Date - 03/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$21.32	\$13.00	\$0.65	\$0.00	\$34.97
2	45	\$21.32	\$13.00	\$0.65	\$0.00	\$34.97
3	50	\$23.69	\$13.00	\$15.20	\$0.00	\$51.89
4	50	\$23.69	\$13.00	\$15.20	\$0.00	\$51.89
5	55	\$26.06	\$13.00	\$15.58	\$0.00	\$54.64
6	60	\$28.43	\$13.00	\$15.96	\$0.00	\$57.39
7	65	\$30.80	\$13.00	\$16.34	\$0.00	\$60.14
8	70	\$33.17	\$13.00	\$16.73	\$0.00	\$62.90
9	75	\$35.54	\$13.00	\$17.11	\$0.00	\$65.65
10	80	\$37.90	\$13.00	\$17.48	\$0.00	\$68.38

Notes:

Apprentice to Journeyworker Ratio:1:1

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

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 <i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2023	\$47.58	\$9.40	\$17.97	\$0.00	\$74.95
	12/01/2023	\$48.83	\$9.40	\$17.97	\$0.00	\$76.20
	06/01/2024	\$50.31	\$9.40	\$17.97	\$0.00	\$77.68
	12/01/2024	\$51.78	\$9.40	\$17.97	\$0.00	\$79.15
	06/01/2025	\$53.28	\$9.40	\$17.97	\$0.00	\$80.65
	12/01/2025	\$54.78	\$9.40	\$17.97	\$0.00	\$82.15
	06/01/2026	\$56.33	\$9.40	\$17.97	\$0.00	\$83.70
	12/01/2026	\$57.83	\$9.40	\$17.97	\$0.00	\$85.20

For apprentice rates see "Apprentice- LABORER"

TEST BORING DRILLER HELPER <i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2023	\$43.70	\$9.40	\$17.97	\$0.00	\$71.07
	12/01/2023	\$44.95	\$9.40	\$17.97	\$0.00	\$72.32
	06/01/2024	\$46.43	\$9.40	\$17.97	\$0.00	\$73.80
	12/01/2024	\$47.90	\$9.40	\$17.97	\$0.00	\$75.27
	06/01/2025	\$49.40	\$9.40	\$17.97	\$0.00	\$76.77
	12/01/2025	\$50.90	\$9.40	\$17.97	\$0.00	\$78.27
	06/01/2026	\$52.45	\$9.40	\$17.97	\$0.00	\$79.82
	12/01/2026	\$53.95	\$9.40	\$17.97	\$0.00	\$81.32

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>	06/01/2023	\$43.58	\$9.40	\$17.97	\$0.00	\$70.95
	12/01/2023	\$44.83	\$9.40	\$17.97	\$0.00	\$72.20
	06/01/2024	\$46.31	\$9.40	\$17.97	\$0.00	\$73.68
	12/01/2024	\$47.78	\$9.40	\$17.97	\$0.00	\$75.15
	06/01/2025	\$49.28	\$9.40	\$17.97	\$0.00	\$76.65
	12/01/2025	\$50.78	\$9.40	\$17.97	\$0.00	\$78.15
	06/01/2026	\$52.33	\$9.40	\$17.97	\$0.00	\$79.70
	12/01/2026	\$53.83	\$9.40	\$17.97	\$0.00	\$81.20
For apprentice rates see "Apprentice- LABORER"						
TRACTORS/PORTABLE STEAM GENERATORS <i>OPERATING ENGINEERS LOCAL 4</i>	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>	06/01/2023	\$55.81	\$9.40	\$18.42	\$0.00	\$83.63
	12/01/2023	\$57.06	\$9.40	\$18.42	\$0.00	\$84.88
	06/01/2024	\$58.54	\$9.40	\$18.42	\$0.00	\$86.36
	12/01/2024	\$60.01	\$9.40	\$18.42	\$0.00	\$87.83
	06/01/2025	\$61.51	\$9.40	\$18.42	\$0.00	\$89.33
	12/01/2025	\$63.01	\$9.40	\$18.42	\$0.00	\$90.83
	06/01/2026	\$64.56	\$9.40	\$18.42	\$0.00	\$92.38
	12/01/2026	\$66.06	\$9.40	\$18.42	\$0.00	\$93.88
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE) <i>LABORERS (COMPRESSED AIR)</i>	06/01/2023	\$57.81	\$9.40	\$18.42	\$0.00	\$85.63
	12/01/2023	\$59.06	\$9.40	\$18.42	\$0.00	\$86.88
	06/01/2024	\$60.54	\$9.40	\$18.42	\$0.00	\$88.36
	12/01/2024	\$62.01	\$9.40	\$18.42	\$0.00	\$89.83
	06/01/2025	\$63.51	\$9.40	\$18.42	\$0.00	\$91.33
	12/01/2025	\$65.01	\$9.40	\$18.42	\$0.00	\$92.83
	06/01/2026	\$66.56	\$9.40	\$18.42	\$0.00	\$94.38
	12/01/2026	\$68.06	\$9.40	\$18.42	\$0.00	\$95.88
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR <i>LABORERS (FREE AIR TUNNEL)</i>	06/01/2023	\$47.88	\$9.40	\$18.42	\$0.00	\$75.70
	12/01/2023	\$49.13	\$9.40	\$18.42	\$0.00	\$76.95
	06/01/2024	\$50.61	\$9.40	\$18.42	\$0.00	\$78.43
	12/01/2024	\$52.08	\$9.40	\$18.42	\$0.00	\$79.90
	06/01/2025	\$53.58	\$9.40	\$18.42	\$0.00	\$81.40
	12/01/2025	\$55.08	\$9.40	\$18.42	\$0.00	\$82.90
	06/01/2026	\$56.63	\$9.40	\$18.42	\$0.00	\$84.45
	12/01/2026	\$58.13	\$9.40	\$18.42	\$0.00	\$85.95
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TUNNEL WORK - FREE AIR (HAZ. WASTE) <i>LABORERS (FREE AIR TUNNEL)</i>	06/01/2023	\$49.88	\$9.40	\$18.42	\$0.00	\$77.70
	12/01/2023	\$51.13	\$9.40	\$18.42	\$0.00	\$78.95
	06/01/2024	\$52.61	\$9.40	\$18.42	\$0.00	\$80.43
	12/01/2024	\$54.08	\$9.40	\$18.42	\$0.00	\$81.90
	06/01/2025	\$55.58	\$9.40	\$18.42	\$0.00	\$83.40
	12/01/2025	\$57.08	\$9.40	\$18.42	\$0.00	\$84.90
	06/01/2026	\$58.63	\$9.40	\$18.42	\$0.00	\$86.45
	12/01/2026	\$60.13	\$9.40	\$18.42	\$0.00	\$87.95
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>	06/01/2023	\$37.71	\$9.40	\$16.89	\$0.00	\$64.00
	12/01/2023	\$38.61	\$9.40	\$16.89	\$0.00	\$64.90
For apprentice rates see "Apprentice- LABORER"						
WAGON DRILL OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	06/01/2023	\$37.71	\$9.40	\$16.89	\$0.00	\$64.00
	12/01/2023	\$38.61	\$9.40	\$16.89	\$0.00	\$64.90
	06/01/2024	\$39.94	\$9.40	\$16.89	\$0.00	\$66.23
	12/01/2024	\$41.27	\$9.40	\$16.89	\$0.00	\$67.56
	06/01/2025	\$42.66	\$9.40	\$16.89	\$0.00	\$68.95
	12/01/2025	\$44.04	\$9.40	\$16.89	\$0.00	\$70.33
	06/01/2026	\$45.48	\$9.40	\$16.89	\$0.00	\$71.77
	12/01/2026	\$46.92	\$9.40	\$16.89	\$0.00	\$73.21
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
WASTE WATER PUMP OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	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"						
WATER METER INSTALLER <i>PLUMBERS & GASFITTERS LOCAL 12</i>	02/26/2023	\$64.69	\$14.07	\$18.86	\$0.00	\$97.62
	09/03/2023	\$66.44	\$14.07	\$18.86	\$0.00	\$99.37
	03/03/2024	\$68.24	\$14.07	\$18.86	\$0.00	\$101.17
	09/01/2024	\$70.04	\$14.07	\$18.86	\$0.00	\$102.97
	03/02/2025	\$71.84	\$14.07	\$18.86	\$0.00	\$104.77
	For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"					
Outside Electrical - East						
CABLE TECHNICIAN (Power Zone) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	08/30/2020	\$29.67	\$9.25	\$1.89	\$0.00	\$40.81
For apprentice rates see "Apprentice- LINEMAN"						
CABLEMAN (Underground Ducts & Cables) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	08/30/2020	\$42.03	\$9.25	\$10.27	\$0.00	\$61.55
For apprentice rates see "Apprentice- LINEMAN"						
DRIVER / GROUNDMAN CDL <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	08/30/2020	\$34.62	\$9.25	\$10.07	\$0.00	\$53.94
For apprentice rates see "Apprentice- LINEMAN"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
DRIVER / GROUNDMAN -Inexperienced (<2000 Hrs) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	08/30/2020	\$27.20	\$9.25	\$1.82	\$0.00	\$38.27
For apprentice rates see "Apprentice- LINEMAN"						
EQUIPMENT OPERATOR (Class A CDL) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	08/30/2020	\$42.03	\$9.25	\$14.35	\$0.00	\$65.63
For apprentice rates see "Apprentice- LINEMAN"						
EQUIPMENT OPERATOR (Class B CDL) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	08/30/2020	\$37.09	\$9.25	\$10.87	\$0.00	\$57.21
For apprentice rates see "Apprentice- LINEMAN"						
GROUNDMAN <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	08/30/2020	\$27.20	\$9.25	\$1.82	\$0.00	\$38.27
For apprentice rates see "Apprentice- LINEMAN"						
GROUNDMAN -Inexperienced (<2000 Hrs.) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	08/30/2020	\$22.25	\$9.25	\$1.82	\$0.00	\$33.32
For apprentice rates see "Apprentice- LINEMAN"						
JOURNEYMAN LINEMAN <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	08/30/2020	\$49.45	\$9.25	\$17.48	\$0.00	\$76.18

Apprentice - LINEMAN (Outside Electrical) - East Local 104

Effective Date - 08/30/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$29.67	\$9.25	\$3.39	\$0.00	\$42.31
2	65	\$32.14	\$9.25	\$3.46	\$0.00	\$44.85
3	70	\$34.62	\$9.25	\$3.54	\$0.00	\$47.41
4	75	\$37.09	\$9.25	\$5.11	\$0.00	\$51.45
5	80	\$39.56	\$9.25	\$5.19	\$0.00	\$54.00
6	85	\$42.03	\$9.25	\$5.26	\$0.00	\$56.54
7	90	\$44.51	\$9.25	\$7.34	\$0.00	\$61.10

Notes:

Apprentice to Journeyworker Ratio:1:2

TELEDATA CABLE SPLICER <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	02/04/2019	\$30.73	\$4.70	\$3.17	\$0.00	\$38.60
TELEDATA LINEMAN/EQUIPMENT OPERATOR <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	02/04/2019	\$28.93	\$4.70	\$3.14	\$0.00	\$36.77
TELEDATA WIREMAN/INSTALLER/TECHNICIAN <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	02/04/2019	\$28.93	\$4.70	\$3.14	\$0.00	\$36.77

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. Apprentices 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.