

PURCHASING DIVISION
CITY OF WORCESTER
MASSACHUSETTS 01608-1895
ROOM 201 - CITY HALL, 455 Main Street
PHONE (508) 799-1220

BID INVITATION
(Supplies, Material, Equipment, Services)

AN EQUAL OPPORTUNITY AFFIRMATIVE ACTION EMPLOYER

BID NO. 7829-W2

DATE: May 23, 2022

CITY OF WORCESTER
Christopher J. Gagliastro, MCPPO
Purchasing Agent

BUYER: Christopher J. Gagliastro

NOTICE TO BIDDERS
TERMS AND CONDITIONS

All bids are subject to the terms and conditions and specificity herein set forth except where specifically deleted by the City of Worcester in Section No. 6 below.

COMPLETE ORIGINAL COPY (including ALL required pages) OF THIS BID MUST BE SUBMITTED IN A SEALED ENVELOPE:

DATE: June 1, 2022

TIME: 4:00 P.M. LOCAL TIME

PLACE: Purchasing Division, Room 201, City Hall, Worcester, Massachusetts

MARK ENVELOPE **"Bid No. 7829-W2, Haz/Mat Remediation – Tatnuck Fire Station / DPF"**

The name and address of the bidder must appear in the upper left hand corner of the envelope. The City of Worcester is not responsible for bids not properly marked.

GENERAL

1. This Bid Invitation covers: provide labor, materials, equipment and supervision necessary to complete asbestos and mold remediation at Tatnuck Fire Station as per the requirements and specifications of the City of Worcester Department of Public Facilities.
2. A certified check or bid bond made payable to the "City Treasurer, City of Worcester" in the Amount of \$ None must accompany this bid.
3. **NO BID WILL BE ACCEPTED AFTER TIME AND DATE SPECIFIED**
4. A performance bond in the amount of \$ n/a of the total dollar award is required.
5. A payment bond in the amount of \$ 50% of the total dollar award is required **if total amount exceeds \$ 25,000.**
6. All terms and conditions are applicable to this proposal except the following section numbers which are hereby deleted from this invitation: all apply
7. Questions pertaining to this bid must be directed to: Christopher J. Gagliastro in writing via e-mail at: gagliastroc@worcesterma.gov
 - A Pre-Bid meeting will be held on Friday, May 27, 2022 at 11:30 AM at Tatnuck Fire Station, 1067 Pleasant Street, Worcester, MA.

❖ All work must be completed by June 22, 2022

8. The following meanings are attached to the defined words when used in this bid form.
 - (a) The word “City” means The City of Worcester, Massachusetts.
 - (b) The word “Bidder” means the person, firm or corporation submitting a bid on these specifications or any part thereof.
 - (c) The word “Contractor” means the person, firm or corporation with whom the contract is made by carrying out the provisions of these specifications and the contract.
 - (d) The words “Firm Price” shall mean a guarantee against price increases during the life of the contract.
9. Any prospective bidder requesting a change in or interpretation of existing specifications of terms and conditions must do so within five (5) days (Saturdays, Sundays and Holidays excluded) BEFORE scheduled bid opening date. All requests are to be in writing to the Purchasing Division (or e-mailed at gagliastroc@worcesterma.gov). No changes will be considered or any interpretation issued unless request is in our hands within five (5) days (Saturdays, Sundays and Holidays excluded) BEFORE scheduled bid opening date.
10. The contractor will be required to indemnify and save harmless the City of Worcester, for all damages to life and property that may occur due to his or her negligence or that of his or her employees, subcontractors, etc., during this contract.
11. The Contract Agreement will be in the form customarily employed by the City of Worcester and is on file in the Purchasing Division at City Hall.
12. Bids which are incomplete, not properly endorsed, or signed, or otherwise contrary to these instructions will be rejected as informal by the Purchasing Agent. Conditional Bids Will Not Be Accepted.
13. The Bidder must certify that no official or employee of the City of Worcester, Massachusetts is pecuniarily interested in this proposal or in the contract which the bidder offers to execute or in expected profits to arise therefrom, unless there has been compliance with provisions of G.L.C.43 Sec. 27, and that this bid is made in good faith without fraud or collusion or connection with any other person submitting a proposal.
14. As the City of Worcester is exempt from the payment of Federal Excise Taxes, and Massachusetts Sales Tax, prices quoted herein are not to include these taxes.
15. **All prices are to be firm F.O.B. Destination, City of Worcester, Massachusetts, unless otherwise indicated by the City. Time reserved for award is ninety days.**
16. In case of error in the extension prices quoted herein, the unit price will govern.
17. It is understood and agreed that should any price reductions occur between the opening of this bid and delivery of any order, the benefit of all such reductions will be extended to the City.
18. The City of Worcester reserves the right to reject any and all bids, wholly or in part, and to make awards in a manner deemed in the best interest of the City.
19. Awards will be made to the bidder quoting the lowest net price in accordance with specifications.
20. The supplier will be bound by all applicable statutory provisions of law of the Federal Government, the Commonwealth of Massachusetts, the City of Worcester, and The Department of Public Safety of the Commonwealth of Massachusetts.
21. Any bid withdrawn after time and date specified, the bidder shall forfeit deposit on bid as liquidated damages.
22. The contractor will not be permitted to either or underlet the contractor, not assign either legally or equitably any monies hereunder, or its claim thereto without the previous written consent of the City Treasurer and of the Purchasing Agent of the City.
23. If this bid shall be accepted by the City, and the bidder shall fail to contract as aforesaid and to give a bond in the amount as specified in Section 4, within ten (10) days, (not including Sunday or a Legal Holiday) from the date of the mailing of a notice from the City to him, according to the address given herewith, that the contract is ready for signature, the City may

by option determine that the bidder has abandoned the contract and thereupon the proposal and acceptance shall be null and void and the bid security accompanying this proposal shall become the property of the City as liquidated damages.

24. When quoting, the bidder shall submit a signed copy of this bid form, and if bid is accepted by the City shall constitute part of the contract of purchase. Do not detach any part of this form when submitting a bid. Bidder must sign and return complete forms.
25. If in the judgment of the Purchasing Agent any property is needlessly damaged by an act or omission of the contractor or his/her employees, servants, or agent, the amount of such damages shall be determined by the Purchasing Agent of the City of Worcester and such amount shall be deducted from any money due the contractor or may be recovered from said contractor in actions at law.
26. It is agreed that deliveries and/or completion are subject to strikes, lockouts, accidents and Acts of God.

INSURANCE AND WORKER'S COMPENSATION

27. COMMERCIAL GENERAL LIABILITY INSURANCE – Contractor to supply the City of Worcester with certificates of insurance evidencing general liability coverage of not less than \$ 1,000,000.00 per occurrence / \$ 2,000,000.00 aggregate.
28. AUTOMOBILE LIABILITY INSURANCE – Contractor to supply the City of Worcester with certificates of insurance evidencing automobile liability coverage, bodily injury and property damage combined single limits, of \$ 1,000,000.00 (all owned, hired and non-owned autos).
29. COMPENSATION INSURANCE – Contractor shall furnish the City of Worcester with certificates showing that all of his or her employees who shall be connected with this work are protected under Massachusetts' statutory worker's compensation insurance policies.
30. The Contractor shall carry public liability insurance with an insurance company satisfactory to the City so as to save the City harmless from any and all claims for damages arising out of bodily injury to or death of any person or persons, and for all claims for damages arising out of injury to or destruction of property caused by accident resulting from the use of implements, equipment or labor used in the performance of the contractor or from any neglect, default or omission, or want of proper care, or misconduct on the part of the Contractor or for any one of his employ during the execution of the contract.
31. Prior to starting on this contract, the Contractor shall deposit with the contracting officer certificates from the insurer to the effect that the insurance policies required in the above paragraph have been issued to the Contractor. The certificates must be on a form satisfactory to the Purchasing Agent.
32. Except as may be otherwise stated herein, the Contractor shall also carry bodily injury and property damage insurance in amount not less than those set forth above covering the operation of all motor powered vehicles owned or operated by the Contractor and engage in this contract.

DISCOUNT

33. Prompt pay discounts will be considered when determining the low bid except when discounts are for a period of less than 30 days. In this event discounts will not be taken into consideration when determining low bid.
34. Time, in connection with discount offered, will be computed from date of completion and/or delivery and acceptance at destination, or from date correct bill or voucher properly certified by the contractor is received if the latter date is later than the date of completion and acceptance and/or delivery and acceptance.

GUARANTEE

35. The bidder to who a contract is awarded guarantees to the City of Worcester all equipment, materials and/or workmanship for a period of one (1) year after final inspection and acceptance and shall replace promptly any defective equipment, materials and/or workmanship required without additional cost to the City.

DELIVERIES AND COMPLETION

36. It is understood and agreed that in the event of failure on the part of the bidder to indicate date of delivery and/or completion, delivery and/or completion will be made within twelve (12) days from date of notification. Should the successful bidder fail to make delivery or complete contract within time specified, the City reserves the right to make the purchase on such orders at the open market and charge any excess over contract price to the account of the successful bidder, who shall pay the same.
37. The contractor shall familiarize himself with the location and facilities for storage.
38. The City, through its Purchasing Division, reserves the right to divert delivery from one location to another, and to allow for any change in operating conditions or for any other cause not now foreseen and to proportion deliveries according to available storage facilities.

SAMPLING AND ANALYSIS

39. Each bidder must state the commercial name of the product quoted, name, and address of operator or agent from whom the product will be purchased and in addition shall furnish an analysis of the product, date of analysis, by whom made and their address.
40. Samples of the product to be delivered may be taken by a representative of the City, either prior to delivery or while it is being delivered in the storage facilities at destination, or will be taken from the storage facilities to which the product has been delivered as determined from time to time by the Purchasing Agent. Bidder agrees to furnish the necessary manual labor, without additional cost required to assemble the physical samples, which is to be performed under the direction of the City representative.
41. The representative of the City taking the samples, shall be given the opportunity, while sampling, to affix his signature to the delivery slip each item represented in his sample.
42. Any product after the sampling and analysis, not found meeting the requirements of the contract shall be sufficient cause for the cancellation of the contract at the option of the Purchasing Agent.
43. If any product is found that does not meet the analysis submitted by the bidder in his proposal, the Purchasing Agent may at his option exercise his right to reject the product and require that all or any part thereof shall be removed promptly by and at the expense of the contractor and replace it forthwith with a product satisfactory to the Purchasing Agent, or to retain the product and compensate the contractor in an amount as determined by the Purchasing Agent and the City Manager.
44. It is understood and agreed that it shall be a material breach of any contract resulting from this bid for the Contractor to engage in any practice which shall violate any provisions of Massachusetts General Laws, Chapter 151B, relative to discrimination in hiring, discharge, compensation, or terms, conditions or privileges of employment because of race, color, religious creed, national origin, sex, age or ancestry.
45. The undersigned as bidder, declares that the only parties interested in this proposal as principals are named herein; that this proposal is made without collusion with any other person, firm or corporation; that no officer or agent of the City is directly or indirectly interested in this bid; and he proposes and agrees that if this proposal is accepted he will contract with the City in accordance with the specifications, also the terms and conditions as spelled out in this bid form.
46. No Person, including but not limited to corporations, partnerships, limited partnerships or limited liability corporations, shall be eligible to receive a contract under this invitation to bid and/or request for proposal if that person has been convicted of any felony offense involving the distribution of controlled substances as that term is defined under Chapter 94C of the General Laws and, for contracts to be performed for on-site services to the Worcester Public Schools, if that person or any person to be employed by that person in the performance of such on-site services has been convicted of a "sex offense" or a "sex offense involving a child" or a "sexually violent offense" or would meet the definition of "sexually violent predator" as those terms are defined in Chapter 6, Section 178C of the General Laws and who must register with the sex offender registry board.
47. The Contractor shall at all times enforce strict discipline and good order among his employees and shall not employ for work or services relating to this contract any unfit person or anyone not skilled in the task assigned to him. In light of the

fact that the performance of this contract requires the Contractor and its employees to have significant interaction with the public, the Contractor shall require all employees who may perform services under this contract to conduct themselves in a courteous, professional manner. If the Contractor is notified by the Contract Officer that any person engaged upon the work is incompetent, unfaithful, disorderly, discourteous, or otherwise unsatisfactory, then such person shall be discharged from providing services or work pursuant to this contract. Without limiting the generality of the foregoing, intimidation, threats and/or violent conduct of any kind or nature directed to members of the public are absolutely prohibited. Failure to comply with this requirement shall be grounds for termination of the contract.

48. The Contractor's performance may be evaluated on an ongoing basis including but not limited to consideration of complaints received from members of the public. In order to facilitate this evaluation, the Contractor shall provide the City with documents and records upon request. The Contractor shall further obtain from its employees authorization that appropriate City personnel may obtain all available criminal offender information ("CORI") from the Criminal History Systems Board. A high number of unresolved complaints, any number of complaints that are particularly severe, or employment of individuals who have been convicted of assault or other violent crimes shall be grounds for the early termination or non-renewal of the contract by the City.
49. The procurement officer shall award the contract to the lowest responsible and responsive bidder. The term "responsible bidder" means "a person who has the capability to perform fully the contract requirements, and the integrity and reliability which assures good faith performance." Consistent with its duty to maintain public order and promote public safety, the City has determined that this contract is of a type and nature so as to be particularly sensitive due, at least in part, to the contractor's inherent access and dealings with the members of the general public. Therefore, the City has concluded that additional scrutiny is justified as it determines whether a particular bidder is responsible, having the integrity and reliability to properly perform the requested services. This may entail consideration of the contractor's system of oversight, training and supervision of its employees, including but not limited to its requirement of a high standard of customer service and courtesy in its dealings with the public. The bidder's care and diligence in hiring and assigning its employees will also be considered. In making its determination, the City reserves the right to examine any and all information at its disposal, including but not limited to prior City contracts, the experiences and information obtained from current and former customers (whether identified by the bidder as references or not), as well as other sources available to the City, including but not limited to court documents, newspapers, financial reports (such as DUNS), and certain police data and reports.
50. The Contractor, acting through its owner(s) or any of its employees, or its agents or sub-contractors and any of their employees, shall not engage in any behavior, whether during the course of its duties under this contract or at any other time, that is illegal, criminal or otherwise shocking or offensive to the general public. The determination whether any particular behavior is illegal, criminal or shocking to the general public shall rest in the sound judgment of the Contracting Officer or the City Manager. In making such determination, the Contracting Officer or the City Manager shall apply the general standards of the community. No criminal conviction or formal charges shall be required to make such determination. Such behavior need be something more than trivial and something which would cause the general public to have concerns either about the safety of individuals coming in contact with the Contractor or about the character and integrity of the individuals with which the City does business. Violation of this provision shall be grounds for immediate and unilateral termination of this contract by the City upon five days' notice as otherwise provided herein

GIVE FULL NAMES AND RESIDENCES OF ALL PERSONS INTERESTED IN THE FOREGOING PROPOSAL.

(NOTICE: Give first and last name in full; in case of corporations, give corporate name and names of President, Treasurer, and Manager; and in case of firms give names of the individual members)

Name

Address

Zip Code

KINDLY FURNISH THE FOLLOWING INFORMATION REGARDING BIDDER:

(1) If a Proprietorship

Name of Owner _____

Business Address _____

Zip Code _____ Telephone No. _____

Home Address _____

Zip Code _____ Telephone No. _____

(2) If a Partnership

Full names and addresses of all partners

Name

Address

Zip Code

Business Address _____ Zip Code _____

Tel. No. _____

(3) If a Corporation

Full Legal Name _____

State of Incorporation _____ Qualified in Massachusetts ? Yes _____ No _____

Principal Place of Business _____

Street P.O. Box

City/Town State Zip

Telephone No. _____

Place of Business in Massachusetts _____

Street P.O. Box

City/Town State Zip

Telephone No. _____

GIVE THE FOLLOWING INFORMATION REGARDING SURETY COMPANY

Full Legal Name of Surety Company _____

State of Incorporation _____ Admitted in Massachusetts ? Yes _____ No _____

Principal Place of Business _____

Street P.O. Box

City/Town State Zip

Place of Business in Massachusetts _____

Street P.O. Box

City/Town State Zip

Telephone No. _____

NOTE

The Office of the Attorney General, Washington, D.C. requires the following information on all bid proposals amounting to \$1,000.00 or more.

F.I.D. Number of bidder _____

This number is regularly used by companies when filing their "EMPLOYER'S FEDERAL TAX RETURN, U.S." Treasury Department Form 941.

AUTHORIZED SIGNATURE OF BIDDER _____ TITLE _____
PLEASE SIGN

DATE _____ BID SECURITY \$ _____

The name of Customer Service Representative and the Contract Administrator responsible for servicing this account in the event of contract award are:

NAME (PLEASE PRINT) *Customer Service Rep.* _____ TEL. NO. _____

NAME (PLEASE PRINT) *Contract Administrator* _____ TEL. NO. _____

FAX NUMBER _____ FAX # _____

E-MAIL (Customer Service Rep.): _____

E-MAIL (Contract Administrator): _____

UNDER MASSACHUSETTS GENERAL LAWS, CHAPTER 30B: SECTION 10, THE FOLLOWING CERTIFICATION MUST BE PROVIDED:

Section 10. A person submitting a bid or a proposal for the procurement or disposal of supplies, or services to any governmental body shall certify in writing, on the bid or proposal, as follows:

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

(Please Print) _____
Name of Person Signing Bid

Signature of Person Signing Bid

Company

No award will be made without vendor certification of the above.

PROPOSAL PAGE

Bidders must state and identify the product offered, such as manufacturer's name, trade name, brand name and quality next to each item. WE MUST KNOW WHAT HAS BEEN OFFERED.

The quantities shown herein are estimated only and the Contractor will be required to furnish all quantities ordered by the City during the period of the contract.

YES XX NO

Delivery to be made to: Worcester, MA

This Bid includes addenda numbered _____

NO PRICE ADJUSTMENTS ALLOWED. PRICES QUOTED ARE FINAL. CHECK BEFORE SIGNING

BIDDER TO COMPLETE ITEMS BELOW

Item No.	Quantity	Description			Unit Price	Total Price
		<p>Perform hazardous materials remediation services at Tatnuck Fire Station as per the attached requirements and specifications of the City of Worcester Department of Public Facilities.</p> <p><i>For any bid price that exceeds \$25,000, the vendor must provide a payment bond in the amount of 50% of the contract amount. Payment Bond form to be provided by the City upon award.</i></p> <p><i>Insurance certificates are required. The awardee must forward insurance certificate copies to the Purchasing Division consistent with the requirements stated in these bid documents prior to commencement of work.</i></p> <p><u><i>No work may commence until these forms are on file with the Purchasing Division</i></u></p> <p>Quotes may be emailed to gagliastroc@worcesterm.gov</p> <p>Questions must be directed to gagliastroc@worcesterma.gov</p>				<p>\$ _____</p> <p>Total Price for all work described herein</p>

TERMS, PROMPT PAY DISCOUNT _____% 30 DAYS, NET 45 DAYS.

DELIVERY AND/OR COMPLETION TO BE MADE WITHIN (_____) DAYS FROM TIME OF NOTIFICATION BY THE CITY.

NAME OF BIDDER _____

PREVAILING WAGE RATES

&

CERTIFIED PAYROLL REPORTING

FORMS

NOTE: Successful bidder/contractor shall submit the required certified payroll reporting forms on a weekly basis *via email* to:

certifiedpayrollrecords@worcesterma.gov

City of Worcester – Purchasing Division
City Hall – Room 201
455 Main Street
Worcester, MA 01608

MASSACHUSETTS WEEKLY CERTIFIED PAYROLL REPORT FORM



Company's Name:		Address:				Phone No.:				Payroll No.:									
Employer's Signature:		Title:				Contract No:		Tax Payer ID Number		Work Week Ending:									
Awarding Authority's Name:		Public Works Project Name:				Public Works Project Location:				Min. Wage Rate Sheet Number									
General / Prime Contractor's Name:		Subcontractor's Name:						"Employer" Hourly Fringe Benefit Contributions											
				(B+C+D+E) (A x F)															
Employee Name & Complete Address	Work Classification:	Employee is OSHA 10 certified (?)	Appr. Rate (%)	Hours Worked								Project Hours (A) All Other Hours	Hourly Base Wage (B)	Health & Welfare Insurance (C)	ERISA Pension Plan (D)	Supp. Unemp. (E)	Total Hourly Prev. Wage (F)	Project Gross Wages Total Gross Wages	Check No. (H)
				Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.									

Are all apprentice employees identified above currently registered with the MA DLS's Division of Apprentices Standards? YES ☐ NO ☐

For all apprentices performing work during the reporting period, attach a copy of the apprentice identification card issued by the Massachusetts Department of Labor Standards / Division of Apprentices Standards. No apprentices are identified above ☐

NOTE: Pursuant to MGL c. 149, s. 27B, every contractor and subcontractor is required to submit a true and accurate copy of their certified weekly payroll records to the awarding authority by first-class mail or e-mail. In addition, each weekly payroll must be accompanied by a statement of compliance signed by the employer. Failure to comply may result in the commencement of a criminal action or the issuance of a civil citation.

Date Received by Awarding Authority
 / /

WEEKLY PAYROLL RECORDS REPORT & STATEMENT OF COMPLIANCE

In accordance with Massachusetts General Law c. 149, §27B, a true and accurate record must be kept of all persons employed on the public works project for which the enclosed rates have been provided. A Payroll Form has been printed on the reverse of this page and includes all the information required to be kept by law. Every contractor or subcontractor is required to keep these records and preserve them for a period of three years from the date of completion of the contract.

In addition, every contractor and subcontractor is required to submit a copy of their weekly payroll records to the awarding authority. For every week in which an apprentice is employed, a photocopy of the apprentice's identification card must be attached to the payroll report. Once collected, the awarding authority is also required to preserve those records for three years.

In addition, each such contractor, subcontractor, or public body shall furnish to the awarding authority directly, within fifteen days after completion of its portion of the work a statement, executed by the contractor, subcontractor or public body who supervises the payment of wages, in the following form:

STATEMENT OF 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 _____
(Contractor, subcontractor or public body) (Building or project)

and that all mechanics and apprentices, teamsters, chauffeurs and laborers employed on said project have been paid in accordance with wages determined under the provisions of sections twenty-six and twenty-seven of chapter one hundred and forty nine of the General Laws.

Signature _____

Title _____



CHARLES D. BAKER
Governor

KARYN E. POLITO
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

ROSALIN ACOSTA
Secretary
MICHAEL FLANAGAN
Director

Awarding Authority: City of Worcester Purchasing Division
Contract Number: 7829-W2 **City/Town:** WORCESTER
Description of Work: Asbestos and mold remediation at Tatnuck Fire Station per attached plans and specifications
Job Location: Pleasant Street

Information about Prevailing Wage Schedules for Awarding Authorities and Contractors

- This wage schedule applies only to the specific project referenced at the top of this page and uniquely identified by the "Wage Request Number" on all pages of this schedule.
 - An Awarding Authority must request an updated wage schedule from the Department of Labor Standards ("DLS") if it has not opened bids or selected a contractor within 90 days of the date of issuance of the wage schedule. For CM AT RISK projects (bid pursuant to G.L. c.149A), the earlier of: (a) the execution date of the GMP Amendment, or (b) the bid for the first construction scope of work must be within 90-days of the wage schedule issuance date.
 - The wage schedule shall be incorporated in any advertisement or call for bids for the project as required by M.G.L. c. 149, § 27. The wage schedule shall be made a part of the contract awarded for the project. The wage schedule must be posted in a conspicuous place at the work site for the life of the project in accordance with M.G.L. c. 149 § 27. The wages listed on the wage schedule must be paid to employees performing construction work on the project whether they are employed by the prime contractor, a filed sub-bidder, or any sub-contractor.
 - All apprentices working on the project are required to be registered with the Massachusetts Department of Labor Standards, Division of Apprentice Standards (DLS/DAS). Apprentice must keep his/her apprentice identification card on his/her person during all work hours on the project. An apprentice registered with DAS may be paid the lower apprentice wage rate at the applicable step as provided on the prevailing wage schedule. **Any apprentice not registered with DLS/DAS regardless of whether or not they are registered with any other federal, state, local, or private agency must be paid the journeyworker's rate for the trade.**
 - The wage rates will remain in effect for the duration of the project, except in the case of multi-year public construction projects. For construction projects lasting longer than one year, awarding authorities must request an updated wage schedule. Awarding authorities are required to request these updates no later than two weeks before the anniversary of the date the contract was executed by the awarding authority and the general contractor. For multi-year CM AT RISK projects, awarding authority must request an annual update no later than two weeks before the anniversary date, determined as the earlier of: (a) the execution date of the GMP Amendment, or (b) the execution date of the first amendment to permit procurement of construction services. Contractors are required to obtain the wage schedules from awarding authorities, and to pay no less than these rates to covered workers. The annual update requirement is not applicable to 27F "rental of equipment" contracts.
 - Every contractor or subcontractor which performs construction work on the project is required to submit weekly payroll reports and a Statement of Compliance directly to the awarding authority by mail or email and keep them on file for three years. Each weekly payroll report must contain: the employee's name, address, occupational classification, hours worked, and wages paid. Do not submit weekly payroll reports to DLS. A sample of a payroll reporting form may be obtained at <http://www.mass.gov/dols/pw>.
 - Contractors with questions about the wage rates or classifications included on the wage schedule have an affirmative obligation to inquire with DLS at (617) 626-6953.
 - Employees not receiving the prevailing wage rate set forth on the wage schedule may report the violation to the Fair Labor Division of the office of the Attorney General at (617) 727-3465.
 - Failure of a contractor or subcontractor to pay the prevailing wage rates listed on the wage schedule to all employees who perform construction work on the project is a violation of the law and subjects the contractor or subcontractor to civil and criminal penalties.
-

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
Construction						
(2 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2021	\$35.95	\$13.41	\$16.01	\$0.00	\$65.37
(3 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2021	\$36.02	\$13.41	\$16.01	\$0.00	\$65.44
(4 & 5 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2021	\$36.14	\$13.41	\$16.01	\$0.00	\$65.56
ADS/SUBMERSIBLE PILOT <i>PILE DRIVER LOCAL 56 (ZONE 2)</i>	08/01/2020	\$103.05	\$9.40	\$23.12	\$0.00	\$135.57
For apprentice rates see "Apprentice- PILE DRIVER"						
AIR TRACK OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2021	\$36.16	\$9.10	\$16.64	\$0.00	\$61.90
	06/01/2022	\$37.06	\$9.10	\$16.64	\$0.00	\$62.80
	12/01/2022	\$37.91	\$9.10	\$16.64	\$0.00	\$63.65
	06/01/2023	\$38.81	\$9.10	\$16.64	\$0.00	\$64.55
	12/01/2023	\$39.71	\$9.10	\$16.64	\$0.00	\$65.45
For apprentice rates see "Apprentice- LABORER"						
AIR TRACK OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2021	\$36.16	\$9.10	\$16.64	\$0.00	\$61.90
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
ASBESTOS WORKER (PIPES & TANKS) <i>HEAT & FROST INSULATORS LOCAL 6 (WORCESTER)</i>	12/01/2020	\$38.10	\$12.80	\$9.45	\$0.00	\$60.35
ASPHALT RAKER <i>LABORERS - ZONE 2</i>	12/01/2021	\$35.66	\$9.10	\$16.64	\$0.00	\$61.40
	06/01/2022	\$36.56	\$9.10	\$16.64	\$0.00	\$62.30
	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"						
ASPHALT RAKER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2021	\$35.66	\$9.10	\$16.64	\$0.00	\$61.40
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2021	\$51.38	\$14.00	\$16.05	\$0.00	\$81.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BACKHOE/FRONT-END LOADER <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2021	\$51.38	\$14.00	\$16.05	\$0.00	\$81.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BARCO-TYPE JUMPING TAMPER <i>LABORERS - ZONE 2</i>	12/01/2021	\$35.66	\$9.10	\$16.64	\$0.00	\$61.40
	06/01/2022	\$36.56	\$9.10	\$16.64	\$0.00	\$62.30
	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"						
BLOCK PAVER, RAMMER / CURB SETTER <i>LABORERS - ZONE 2</i>	12/01/2021	\$36.16	\$9.10	\$16.64	\$0.00	\$61.90
	06/01/2022	\$37.06	\$9.10	\$16.64	\$0.00	\$62.80
	12/01/2022	\$37.91	\$9.10	\$16.64	\$0.00	\$63.65
	06/01/2023	\$38.81	\$9.10	\$16.64	\$0.00	\$64.55
	12/01/2023	\$39.71	\$9.10	\$16.64	\$0.00	\$65.45
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i> For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"	12/01/2021	\$36.16	\$9.10	\$16.64	\$0.00	\$61.90
BOILER MAKER <i>BOILERMAKERS LOCAL 29</i>	01/01/2020	\$46.10	\$7.07	\$17.98	\$0.00	\$71.15

Apprentice - BOILERMAKER - Local 29

Effective Date - 01/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	65	\$29.97	\$7.07	\$11.69	\$0.00	\$48.73
2	65	\$29.97	\$7.07	\$11.69	\$0.00	\$48.73
3	70	\$32.27	\$7.07	\$12.59	\$0.00	\$51.93
4	75	\$34.58	\$7.07	\$13.49	\$0.00	\$55.14
5	80	\$36.88	\$7.07	\$14.38	\$0.00	\$58.33
6	85	\$39.19	\$7.07	\$15.29	\$0.00	\$61.55
7	90	\$41.49	\$7.07	\$16.18	\$0.00	\$64.74
8	95	\$43.80	\$7.07	\$17.09	\$0.00	\$67.96

Notes:

Apprentice to Journeyworker Ratio:1:4

BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING) <i>BRICKLAYERS LOCAL 3 (WORCESTER)</i>	02/01/2022	\$55.01	\$11.39	\$21.65	\$0.00	\$88.05
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Apprentice - BRICK/PLASTER/CEMENT MASON - Local 3 Worcester

Effective Date - 02/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$27.51	\$11.39	\$21.65	\$0.00	\$60.55
2	60	\$33.01	\$11.39	\$21.65	\$0.00	\$66.05
3	70	\$38.51	\$11.39	\$21.65	\$0.00	\$71.55
4	80	\$44.01	\$11.39	\$21.65	\$0.00	\$77.05
5	90	\$49.51	\$11.39	\$21.65	\$0.00	\$82.55

Notes:

Apprentice to Journeyworker Ratio:1:5

BULLDOZER/GRADER/SCRAPER <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2021	\$50.83	\$14.00	\$16.05	\$0.00	\$80.88
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For apprentice rates see "Apprentice- OPERATING ENGINEERS"

CAISSON & UNDERPINNING BOTTOM MAN <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2021	\$42.33	\$9.10	\$17.72	\$0.00	\$69.15
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For apprentice rates see "Apprentice- LABORER"

CAISSON & UNDERPINNING LABORER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2021	\$41.18	\$9.10	\$17.72	\$0.00	\$68.00
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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LABORER"						
CAISSON & UNDERPINNING TOP MAN <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2021	\$41.18	\$9.10	\$17.72	\$0.00	\$68.00
For apprentice rates see "Apprentice- LABORER"						
CARBIDE CORE DRILL OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2021	\$35.66	\$9.10	\$16.64	\$0.00	\$61.40
	06/01/2022	\$36.56	\$9.10	\$16.64	\$0.00	\$62.30
	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"						
CARPENTER <i>CARPENTERS -ZONE 2 (Eastern Massachusetts)</i>	03/01/2022	\$44.53	\$8.68	\$19.97	\$0.00	\$73.18
	09/01/2022	\$45.18	\$8.68	\$19.97	\$0.00	\$73.83
	03/01/2023	\$45.78	\$8.68	\$19.97	\$0.00	\$74.43
Apprentice - CARPENTER - Zone 2 Eastern MA						
Effective Date - 03/01/2022						
Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.27	\$8.68	\$1.73	\$0.00	\$32.68
2	60	\$26.72	\$8.68	\$1.73	\$0.00	\$37.13
3	70	\$31.17	\$8.68	\$14.78	\$0.00	\$54.63
4	75	\$33.40	\$8.68	\$14.78	\$0.00	\$56.86
5	80	\$35.62	\$8.68	\$16.51	\$0.00	\$60.81
6	80	\$35.62	\$8.68	\$16.51	\$0.00	\$60.81
7	90	\$40.08	\$8.68	\$18.24	\$0.00	\$67.00
8	90	\$40.08	\$8.68	\$18.24	\$0.00	\$67.00
Effective Date - 09/01/2022						
Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.59	\$8.68	\$1.73	\$0.00	\$33.00
2	60	\$27.11	\$8.68	\$1.73	\$0.00	\$37.52
3	70	\$31.63	\$8.68	\$14.78	\$0.00	\$55.09
4	75	\$33.89	\$8.68	\$14.78	\$0.00	\$57.35
5	80	\$36.14	\$8.68	\$16.51	\$0.00	\$61.33
6	80	\$36.14	\$8.68	\$16.51	\$0.00	\$61.33
7	90	\$40.66	\$8.68	\$18.24	\$0.00	\$67.58
8	90	\$40.66	\$8.68	\$18.24	\$0.00	\$67.58
Notes: % Indentured After 10/1/17; 45/45/55/55/70/70/80/80 Step 1&2 \$30.45/ 3&4 \$36.57/ 5&6 \$56.36/ 7&8 \$62.54						
Apprentice to Journeyworker Ratio:1:5						
CARPENTER WOOD FRAME <i>CARPENTERS-ZONE 3 (Wood Frame)</i>	04/01/2022	\$23.66	\$7.21	\$4.80	\$0.00	\$35.67
	04/01/2023	\$24.16	\$7.21	\$4.80	\$0.00	\$36.17
All Aspects of New Wood Frame Work						

Classification

Effective Date

Base Wage

Health

Pension

Supplemental
Unemployment

Total Rate

Apprentice - CARPENTER (Wood Frame) - Zone 3**Effective Date - 04/01/2022**

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

Effective Date - 04/01/2023

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

Notes:

% Indentured After 10/1/17; 45/45/55/55/70/70/80/80
 Step 1&2 \$17.86/ 3&4 \$20.22/ 5&6 \$27.57/ 7&8 \$29.94

Apprentice to Journeyworker Ratio:1:5

CEMENT MASONRY/PLASTERING

01/01/2020

\$47.14

\$12.75

\$22.41

\$0.62

\$82.92

BRICKLAYERS LOCAL 3 (WORCESTER)

Apprentice - CEMENT MASONRY/PLASTERING - Worcester**Effective Date - 01/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.57	\$12.75	\$15.41	\$0.00	\$51.73
2	60	\$28.28	\$12.75	\$17.41	\$0.62	\$59.06
3	65	\$30.64	\$12.75	\$18.41	\$0.62	\$62.42
4	70	\$33.00	\$12.75	\$19.41	\$0.62	\$65.78
5	75	\$35.36	\$12.75	\$20.41	\$0.62	\$69.14
6	80	\$37.71	\$12.75	\$21.41	\$0.62	\$72.49
7	90	\$42.43	\$12.75	\$22.41	\$0.62	\$78.21

Notes:

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

Apprentice to Journeyworker Ratio:1:3

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
CHAIN SAW OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2021	\$35.66	\$9.10	\$16.64	\$0.00	\$61.40
	06/01/2022	\$36.56	\$9.10	\$16.64	\$0.00	\$62.30
	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"						
CLAM SHELLS/SLURRY BUCKETS/HEADING MACHINES <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2021	\$52.38	\$14.00	\$16.05	\$0.00	\$82.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
COMPRESSOR OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2021	\$33.69	\$14.00	\$16.05	\$0.00	\$63.74
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
DELEADER (BRIDGE) <i>PAINTERS LOCAL 35 - ZONE 2</i>	01/01/2022	\$53.66	\$8.65	\$23.05	\$0.00	\$85.36
	07/01/2022	\$54.86	\$8.65	\$23.05	\$0.00	\$86.56
	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

Classification
Effective Date
Base Wage
Health
Pension
**Supplemental
Unemployment**
Total Rate
Apprentice - PAINTER Local 35 - BRIDGES/TANKS
Effective Date - 01/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.83	\$8.65	\$0.00	\$0.00	\$35.48
2	55	\$29.51	\$8.65	\$6.27	\$0.00	\$44.43
3	60	\$32.20	\$8.65	\$6.84	\$0.00	\$47.69
4	65	\$34.88	\$8.65	\$7.41	\$0.00	\$50.94
5	70	\$37.56	\$8.65	\$19.63	\$0.00	\$65.84
6	75	\$40.25	\$8.65	\$20.20	\$0.00	\$69.10
7	80	\$42.93	\$8.65	\$20.77	\$0.00	\$72.35
8	90	\$48.29	\$8.65	\$21.91	\$0.00	\$78.85

Effective Date - 07/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$27.43	\$8.65	\$0.00	\$0.00	\$36.08
2	55	\$30.17	\$8.65	\$6.27	\$0.00	\$45.09
3	60	\$32.92	\$8.65	\$6.84	\$0.00	\$48.41
4	65	\$35.66	\$8.65	\$7.41	\$0.00	\$51.72
5	70	\$38.40	\$8.65	\$19.63	\$0.00	\$66.68
6	75	\$41.15	\$8.65	\$20.20	\$0.00	\$70.00
7	80	\$43.89	\$8.65	\$20.77	\$0.00	\$73.31
8	90	\$49.37	\$8.65	\$21.91	\$0.00	\$79.93

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1
DEMO: ADZEMAN
LABORERS - ZONE 2

12/01/2021	\$41.33	\$9.10	\$17.57	\$0.00	\$68.00
06/01/2022	\$42.33	\$9.10	\$17.57	\$0.00	\$69.00
12/01/2022	\$43.33	\$9.10	\$17.57	\$0.00	\$70.00
06/01/2023	\$44.33	\$9.10	\$17.57	\$0.00	\$71.00
12/01/2023	\$45.58	\$9.10	\$17.57	\$0.00	\$72.25

For apprentice rates see "Apprentice- LABORER"

DEMO: BACKHOE/LOADER/HAMMER OPERATOR
LABORERS - ZONE 2

12/01/2021	\$42.33	\$9.10	\$17.57	\$0.00	\$69.00
06/01/2022	\$43.33	\$9.10	\$17.57	\$0.00	\$70.00
12/01/2022	\$44.33	\$9.10	\$17.57	\$0.00	\$71.00
06/01/2023	\$45.33	\$9.10	\$17.57	\$0.00	\$72.00
12/01/2023	\$46.58	\$9.10	\$17.57	\$0.00	\$73.25

For apprentice rates see "Apprentice- LABORER"

DEMO: BURNERS
LABORERS - ZONE 2

12/01/2021	\$42.08	\$9.10	\$17.57	\$0.00	\$68.75
06/01/2022	\$43.08	\$9.10	\$17.57	\$0.00	\$69.75
12/01/2022	\$44.08	\$9.10	\$17.57	\$0.00	\$70.75
06/01/2023	\$45.08	\$9.10	\$17.57	\$0.00	\$71.75
12/01/2023	\$46.33	\$9.10	\$17.57	\$0.00	\$73.00

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
DEMO: CONCRETE CUTTER/SAWYER <i>LABORERS - ZONE 2</i>	12/01/2021	\$42.33	\$9.10	\$17.57	\$0.00	\$69.00
	06/01/2022	\$43.33	\$9.10	\$17.57	\$0.00	\$70.00
	12/01/2022	\$44.33	\$9.10	\$17.57	\$0.00	\$71.00
	06/01/2023	\$45.33	\$9.10	\$17.57	\$0.00	\$72.00
	12/01/2023	\$46.58	\$9.10	\$17.57	\$0.00	\$73.25
For apprentice rates see "Apprentice- LABORER"						
DEMO: JACKHAMMER OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2021	\$42.08	\$9.10	\$17.57	\$0.00	\$68.75
	06/01/2022	\$43.08	\$9.10	\$17.57	\$0.00	\$69.75
	12/01/2022	\$44.08	\$9.10	\$17.57	\$0.00	\$70.75
	06/01/2023	\$45.08	\$9.10	\$17.57	\$0.00	\$71.75
	12/01/2023	\$46.33	\$9.10	\$17.57	\$0.00	\$73.00
For apprentice rates see "Apprentice- LABORER"						
DEMO: WRECKING LABORER <i>LABORERS - ZONE 2</i>	12/01/2021	\$41.33	\$9.10	\$17.57	\$0.00	\$68.00
	06/01/2022	\$42.33	\$9.10	\$17.57	\$0.00	\$69.00
	12/01/2022	\$43.33	\$9.10	\$17.57	\$0.00	\$70.00
	06/01/2023	\$44.33	\$9.10	\$17.57	\$0.00	\$71.00
	12/01/2023	\$45.58	\$9.10	\$17.57	\$0.00	\$72.25
For apprentice rates see "Apprentice- LABORER"						
DIRECTIONAL DRILL MACHINE OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2021	\$50.83	\$14.00	\$16.05	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
DIVER <i>PILE DRIVER LOCAL 56 (ZONE 2)</i>	08/01/2020	\$68.70	\$9.40	\$23.12	\$0.00	\$101.22
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER <i>PILE DRIVER LOCAL 56 (ZONE 2)</i>	08/01/2020	\$49.07	\$9.40	\$23.12	\$0.00	\$81.59
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 2)</i>	08/01/2020	\$73.60	\$9.40	\$23.12	\$0.00	\$106.12
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER/SLURRY (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 2)</i>	08/01/2020	\$103.05	\$9.40	\$23.12	\$0.00	\$135.57
For apprentice rates see "Apprentice- PILE DRIVER"						
DRAWBRIDGE OPERATOR (Construction) <i>DRAWBRIDGE - SEIU LOCAL 888</i>	07/01/2020	\$26.77	\$6.67	\$3.93	\$0.16	\$37.53
ELECTRICIAN <i>ELECTRICIANS LOCAL 96</i>	09/05/2021	\$45.01	\$11.57	\$17.42	\$0.00	\$74.00
	09/04/2022	\$45.59	\$12.20	\$17.50	\$0.00	\$75.29

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
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Apprentice - ELECTRICIAN - Local 96

Effective Date - 09/05/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$18.00	\$11.57	\$0.54	\$0.00	\$30.11
2	43	\$19.35	\$11.57	\$0.58	\$0.00	\$31.50
3	48	\$21.60	\$11.57	\$14.15	\$0.00	\$47.32
4	55	\$24.76	\$11.57	\$14.58	\$0.00	\$50.91
5	65	\$29.26	\$11.57	\$15.22	\$0.00	\$56.05
6	80	\$36.01	\$11.57	\$16.16	\$0.00	\$63.74

Effective Date - 09/04/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$18.24	\$12.20	\$0.55	\$0.00	\$30.99
2	43	\$19.60	\$12.20	\$0.59	\$0.00	\$32.39
3	48	\$21.88	\$12.20	\$14.18	\$0.00	\$48.26
4	55	\$25.07	\$12.20	\$14.63	\$0.00	\$51.90
5	65	\$29.63	\$12.20	\$15.27	\$0.00	\$57.10
6	80	\$36.47	\$12.20	\$16.22	\$0.00	\$64.89

Notes:

Steps 1-2 are 1000 hrs; Steps 3-6 are 1500 hrs.

Apprentice to Journeyworker Ratio:2:3***

ELEVATOR CONSTRUCTOR	01/01/2022	\$58.62	\$16.03	\$20.21	\$0.00	\$94.86
ELEVATOR CONSTRUCTORS LOCAL 41						

Apprentice - ELEVATOR CONSTRUCTOR - Local 41

Effective Date - 01/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$29.31	\$16.03	\$0.00	\$0.00	\$45.34
2	55	\$32.24	\$16.03	\$20.21	\$0.00	\$68.48
3	65	\$38.10	\$16.03	\$20.21	\$0.00	\$74.34
4	70	\$41.03	\$16.03	\$20.21	\$0.00	\$77.27
5	80	\$46.90	\$16.03	\$20.21	\$0.00	\$83.14

Notes:

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

Apprentice to Journeyworker Ratio:1:1

ELEVATOR CONSTRUCTOR HELPER	01/01/2022	\$41.03	\$16.03	\$20.21	\$0.00	\$77.27
ELEVATOR CONSTRUCTORS LOCAL 41						

For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"

FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY)	12/01/2021	\$35.66	\$9.10	\$16.64	\$0.00	\$61.40
LABORERS - ZONE 2 (HEAVY & HIGHWAY)						

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

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FIELD ENG.INST.PERSON-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	05/01/2022	\$47.18	\$14.00	\$16.05	\$0.00	\$77.23
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FIELD ENG.PARTY CHIEF-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	05/01/2022	\$48.72	\$14.00	\$16.05	\$0.00	\$78.77
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FIELD ENG.ROD PERSON-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	05/01/2022	\$23.33	\$14.00	\$16.05	\$0.00	\$53.38
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FIRE ALARM INSTALLER <i>ELECTRICIANS LOCAL 96</i>	09/05/2021	\$45.01	\$11.57	\$17.42	\$0.00	\$74.00
For apprentice rates see "Apprentice- ELECTRICIAN"						
FIRE ALARM REPAIR / MAINT/COMMISSIONING <i>ELECTRICIANS LOCAL 96</i>	09/05/2021	\$45.01	\$11.57	\$17.42	\$0.00	\$74.00
For apprentice rates see "Apprentice- ELECTRICIAN"						
FIREMAN (ASST. ENGINEER) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2021	\$41.76	\$14.00	\$16.05	\$0.00	\$71.81
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FLAGGER & SIGNALER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2021	\$24.50	\$9.10	\$16.64	\$0.00	\$50.24
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
FLOORCOVERER <i>FLOORCOVERERS LOCAL 2168 ZONE II</i>	03/01/2022	\$47.62	\$8.68	\$20.27	\$0.00	\$76.57

Apprentice - FLOORCOVERER - Local 2168 Zone II

Effective Date - 03/01/2022

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

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

Apprentice to Journeyworker Ratio:1:1

FORK LIFT/CHERRY PICKER <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2021	\$51.38	\$14.00	\$16.05	\$0.00	\$81.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
GENERATOR/LIGHTING PLANT/HEATERS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2021	\$33.69	\$14.00	\$16.05	\$0.00	\$63.74
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>	01/01/2022	\$43.16	\$8.65	\$23.05	\$0.00	\$74.86
	07/01/2022	\$44.36	\$8.65	\$23.05	\$0.00	\$76.06
	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 - 01/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.58	\$8.65	\$0.00	\$0.00	\$30.23
2	55	\$23.74	\$8.65	\$6.27	\$0.00	\$38.66
3	60	\$25.90	\$8.65	\$6.84	\$0.00	\$41.39
4	65	\$28.05	\$8.65	\$7.41	\$0.00	\$44.11
5	70	\$30.21	\$8.65	\$19.63	\$0.00	\$58.49
6	75	\$32.37	\$8.65	\$20.20	\$0.00	\$61.22
7	80	\$34.53	\$8.65	\$20.77	\$0.00	\$63.95
8	90	\$38.84	\$8.65	\$21.91	\$0.00	\$69.40

Effective Date - 07/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.18	\$8.65	\$0.00	\$0.00	\$30.83
2	55	\$24.40	\$8.65	\$6.27	\$0.00	\$39.32
3	60	\$26.62	\$8.65	\$6.84	\$0.00	\$42.11
4	65	\$28.83	\$8.65	\$7.41	\$0.00	\$44.89
5	70	\$31.05	\$8.65	\$19.63	\$0.00	\$59.33
6	75	\$33.27	\$8.65	\$20.20	\$0.00	\$62.12
7	80	\$35.49	\$8.65	\$20.77	\$0.00	\$64.91
8	90	\$39.92	\$8.65	\$21.91	\$0.00	\$70.48

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

HOISTING ENGINEER/CRANES/GRADALLS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2021	\$51.38	\$14.00	\$16.05	\$0.00	\$81.43
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Classification		Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
Apprentice - OPERATING ENGINEERS - Local 4							
Effective Date - 12/01/2021							
Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
1	55	\$28.26	\$14.00	\$0.00	\$0.00	\$42.26	
2	60	\$30.83	\$14.00	\$16.05	\$0.00	\$60.88	
3	65	\$33.40	\$14.00	\$16.05	\$0.00	\$63.45	
4	70	\$35.97	\$14.00	\$16.05	\$0.00	\$66.02	
5	75	\$38.54	\$14.00	\$16.05	\$0.00	\$68.59	
6	80	\$41.10	\$14.00	\$16.05	\$0.00	\$71.15	
7	85	\$43.67	\$14.00	\$16.05	\$0.00	\$73.72	
8	90	\$46.24	\$14.00	\$16.05	\$0.00	\$76.29	
<div>Notes:</div>							
Apprentice to Journeyworker Ratio:1:6							
HVAC (DUCTWORK)		01/01/2022	\$39.29	\$10.64	\$17.33	\$2.02	\$69.28
SHEETMETAL WORKERS LOCAL 63							
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (ELECTRICAL CONTROLS)		09/05/2021	\$45.01	\$11.57	\$17.42	\$0.00	\$74.00
ELECTRICIANS LOCAL 96		09/04/2022	\$45.59	\$12.20	\$17.50	\$0.00	\$75.29
For apprentice rates see "Apprentice- ELECTRICIAN"							
HVAC (TESTING AND BALANCING - AIR)		01/01/2022	\$39.29	\$10.64	\$17.33	\$2.02	\$69.28
SHEETMETAL WORKERS LOCAL 63							
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (TESTING AND BALANCING -WATER)		03/01/2022	\$49.50	\$9.80	\$16.12	\$0.00	\$75.42
PLUMBERS LOCAL 4							
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HVAC MECHANIC		03/01/2022	\$49.50	\$9.80	\$16.12	\$0.00	\$75.42
PLUMBERS LOCAL 4							
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HYDRAULIC DRILLS		12/01/2021	\$36.16	\$9.10	\$16.64	\$0.00	\$61.90
LABORERS - ZONE 2		06/01/2022	\$37.06	\$9.10	\$16.64	\$0.00	\$62.80
		12/01/2022	\$37.91	\$9.10	\$16.64	\$0.00	\$63.65
		06/01/2023	\$38.81	\$9.10	\$16.64	\$0.00	\$64.55
		12/01/2023	\$39.71	\$9.10	\$16.64	\$0.00	\$65.45
For apprentice rates see "Apprentice- LABORER"							
HYDRAULIC DRILLS (HEAVY & HIGHWAY)		12/01/2021	\$36.16	\$9.10	\$16.64	\$0.00	\$61.90
LABORERS - ZONE 2 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
INSULATOR (PIPES & TANKS)		09/01/2021	\$46.50	\$13.80	\$17.14	\$0.00	\$77.44
HEAT & FROST INSULATORS LOCAL 6 (WORCESTER)		09/01/2022	\$48.95	\$13.80	\$17.14	\$0.00	\$79.89

Classification			Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
Apprentice - ASBESTOS INSULATOR (Pipes & Tanks) - Local 6 Worcester								
Effective Date - 09/01/2021								
Step	percent	Apprentice Base Wage		Health	Pension	Supplemental Unemployment	Total Rate	
1	50	\$23.25		\$13.80	\$12.42	\$0.00	\$49.47	
2	60	\$27.90		\$13.80	\$13.36	\$0.00	\$55.06	
3	70	\$32.55		\$13.80	\$14.31	\$0.00	\$60.66	
4	80	\$37.20		\$13.80	\$15.25	\$0.00	\$66.25	
Effective Date - 09/01/2022								
Step	percent	Apprentice Base Wage		Health	Pension	Supplemental Unemployment	Total Rate	
1	50	\$24.48		\$13.80	\$12.42	\$0.00	\$50.70	
2	60	\$29.37		\$13.80	\$13.36	\$0.00	\$56.53	
3	70	\$34.27		\$13.80	\$14.31	\$0.00	\$62.38	
4	80	\$39.16		\$13.80	\$15.25	\$0.00	\$68.21	
Notes:								
Steps are 1 year								
Apprentice to Journeyworker Ratio:1:4								
IRONWORKER/WELDER			03/16/2022	\$50.30	\$8.20	\$26.50	\$0.00	\$85.00
IRONWORKERS LOCAL 7 (WORCESTER AREA)								

Apprentice - IRONWORKER - Local 7 Worcester							
Effective Date - 03/16/2022							
Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
1	60	\$30.18	\$8.20	\$26.50	\$0.00	\$64.88	
2	70	\$35.21	\$8.20	\$26.50	\$0.00	\$69.91	
3	75	\$37.73	\$8.20	\$26.50	\$0.00	\$72.43	
4	80	\$40.24	\$8.20	\$26.50	\$0.00	\$74.94	
5	85	\$42.76	\$8.20	\$26.50	\$0.00	\$77.46	
6	90	\$45.27	\$8.20	\$26.50	\$0.00	\$79.97	
<div>Notes:</div> <div>Structural 1:6; Ornamental 1:4</div>							
Apprentice to Journeyworker Ratio:							
JACKHAMMER & PAVING BREAKER OPERATOR		12/01/2021	\$35.66	\$9.10	\$16.64	\$0.00	\$61.40
LABORERS - ZONE 2		06/01/2022	\$36.56	\$9.10	\$16.64	\$0.00	\$62.30
		12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
		06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
		12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"							

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER	12/01/2021	\$35.41	\$9.10	\$16.64	\$0.00	\$61.15
LABORERS - ZONE 2	06/01/2022	\$36.31	\$9.10	\$16.64	\$0.00	\$62.05
	12/01/2022	\$37.16	\$9.10	\$16.64	\$0.00	\$62.90
	06/01/2023	\$38.06	\$9.10	\$16.64	\$0.00	\$63.80
	12/01/2023	\$38.96	\$9.10	\$16.64	\$0.00	\$64.70

Apprentice - LABORER - Zone 2

Effective Date - 12/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$21.25	\$9.10	\$16.64	\$0.00	\$46.99
2	70	\$24.79	\$9.10	\$16.64	\$0.00	\$50.53
3	80	\$28.33	\$9.10	\$16.64	\$0.00	\$54.07
4	90	\$31.87	\$9.10	\$16.64	\$0.00	\$57.61

Effective Date - 06/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$21.79	\$9.10	\$16.64	\$0.00	\$47.53
2	70	\$25.42	\$9.10	\$16.64	\$0.00	\$51.16
3	80	\$29.05	\$9.10	\$16.64	\$0.00	\$54.79
4	90	\$32.68	\$9.10	\$16.64	\$0.00	\$58.42

Notes:

Apprentice to Journeyworker Ratio:1:5

LABORER (HEAVY & HIGHWAY)	12/01/2021	\$35.41	\$9.10	\$16.64	\$0.00	\$61.15
LABORERS - ZONE 2 (HEAVY & HIGHWAY)						

Apprentice - LABORER (Heavy & Highway) - Zone 2

Effective Date - 12/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$21.25	\$9.10	\$16.64	\$0.00	\$46.99
2	70	\$24.79	\$9.10	\$16.64	\$0.00	\$50.53
3	80	\$28.33	\$9.10	\$16.64	\$0.00	\$54.07
4	90	\$31.87	\$9.10	\$16.64	\$0.00	\$57.61

Notes:

Apprentice to Journeyworker Ratio:1:5

LABORER: CARPENTER TENDER	12/01/2021	\$35.41	\$9.10	\$16.64	\$0.00	\$61.15
LABORERS - ZONE 2	06/01/2022	\$36.31	\$9.10	\$16.64	\$0.00	\$62.05
	12/01/2022	\$37.16	\$9.10	\$16.64	\$0.00	\$62.90
	06/01/2023	\$38.06	\$9.10	\$16.64	\$0.00	\$63.80
	12/01/2023	\$38.96	\$9.10	\$16.64	\$0.00	\$64.70

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER: CEMENT FINISHER TENDER <i>LABORERS - ZONE 2</i>	12/01/2021	\$35.41	\$9.10	\$16.64	\$0.00	\$61.15
	06/01/2022	\$36.31	\$9.10	\$16.64	\$0.00	\$62.05
	12/01/2022	\$37.16	\$9.10	\$16.64	\$0.00	\$62.90
	06/01/2023	\$38.06	\$9.10	\$16.64	\$0.00	\$63.80
	12/01/2023	\$38.96	\$9.10	\$16.64	\$0.00	\$64.70
For apprentice rates see "Apprentice- LABORER"						
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER <i>LABORERS - ZONE 2</i>	12/01/2021	\$35.50	\$9.10	\$16.70	\$0.00	\$61.30
	06/01/2022	\$36.40	\$9.10	\$16.70	\$0.00	\$62.20
	12/01/2022	\$37.25	\$9.10	\$16.70	\$0.00	\$63.05
	06/01/2023	\$38.15	\$9.10	\$16.70	\$0.00	\$63.95
	12/01/2023	\$39.05	\$9.10	\$16.70	\$0.00	\$64.85
For apprentice rates see "Apprentice- LABORER"						
LABORER: MASON TENDER <i>LABORERS - ZONE 2</i>	12/01/2021	\$35.66	\$9.10	\$16.64	\$0.00	\$61.40
	06/01/2022	\$36.56	\$9.10	\$16.64	\$0.00	\$62.30
	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"						
LABORER: MASON TENDER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2021	\$35.66	\$9.10	\$16.64	\$0.00	\$61.40
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
LABORER: MULTI-TRADE TENDER <i>LABORERS - ZONE 2</i>	12/01/2021	\$35.41	\$9.10	\$16.64	\$0.00	\$61.15
	06/01/2022	\$36.31	\$9.10	\$16.64	\$0.00	\$62.05
	12/01/2022	\$37.16	\$9.10	\$16.64	\$0.00	\$62.90
	06/01/2023	\$38.06	\$9.10	\$16.64	\$0.00	\$63.80
	12/01/2023	\$38.96	\$9.10	\$16.64	\$0.00	\$64.70
For apprentice rates see "Apprentice- LABORER"						
LABORER: TREE REMOVER <i>LABORERS - ZONE 2</i>	12/01/2021	\$35.41	\$9.10	\$16.64	\$0.00	\$61.15
	06/01/2022	\$36.31	\$9.10	\$16.64	\$0.00	\$62.05
	12/01/2022	\$37.16	\$9.10	\$16.64	\$0.00	\$62.90
	06/01/2023	\$38.06	\$9.10	\$16.64	\$0.00	\$63.80
	12/01/2023	\$38.96	\$9.10	\$16.64	\$0.00	\$64.70
This classification applies to the removal of standing trees, and the trimming and removal of branches and limbs when related to public works construction or site clearance incidental to construction . For apprentice rates see "Apprentice- LABORER"						
LASER BEAM OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2021	\$35.66	\$9.10	\$16.64	\$0.00	\$61.40
	06/01/2022	\$36.56	\$9.10	\$16.64	\$0.00	\$62.30
	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"						
LASER BEAM OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2021	\$35.66	\$9.10	\$16.64	\$0.00	\$61.40
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
MARBLE & TILE FINISHERS <i>BRICKLAYERS LOCAL 3 - MARBLE & TILE</i>	02/01/2022	\$43.69	\$11.39	\$20.37	\$0.00	\$75.45

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
Apprentice - MARBLE & TILE FINISHER - Local 3 Marble & Tile						
Effective Date - 02/01/2022						
Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.85	\$11.39	\$20.37	\$0.00	\$53.61
2	60	\$26.21	\$11.39	\$20.37	\$0.00	\$57.97
3	70	\$30.58	\$11.39	\$20.37	\$0.00	\$62.34
4	80	\$34.95	\$11.39	\$20.37	\$0.00	\$66.71
5	90	\$39.32	\$11.39	\$20.37	\$0.00	\$71.08
Notes:						
Apprentice to Journeyworker Ratio:1:3						
MARBLE MASONS,TILELAYERS & TERRAZZO MECH BRICKLAYERS LOCAL 3 - MARBLE & TILE	02/01/2022	\$57.17	\$11.39	\$22.31	\$0.00	\$90.87
Apprentice - MARBLE-TILE-TERRAZZO MECHANIC - Local 3 Marble & Tile						
Effective Date - 02/01/2022						
Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$28.59	\$11.39	\$22.31	\$0.00	\$62.29
2	60	\$34.30	\$11.39	\$22.31	\$0.00	\$68.00
3	70	\$40.02	\$11.39	\$22.31	\$0.00	\$73.72
4	80	\$45.74	\$11.39	\$22.31	\$0.00	\$79.44
5	90	\$51.45	\$11.39	\$22.31	\$0.00	\$85.15
Notes:						
Apprentice to Journeyworker Ratio:1:5						
MECH. SWEEPER OPERATOR (ON CONST. SITES) OPERATING ENGINEERS LOCAL 4	12/01/2021	\$50.83	\$14.00	\$16.05	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
MECHANICS MAINTENANCE OPERATING ENGINEERS LOCAL 4	12/01/2021	\$50.83	\$14.00	\$16.05	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
MILLWRIGHT (Zone 3) MILLWRIGHTS LOCAL 1121 - Zone 3	01/03/2022	\$38.91	\$8.58	\$21.57	\$0.00	\$69.06
	01/02/2023	\$40.16	\$8.58	\$21.57	\$0.00	\$70.31

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
Apprentice - MILLWRIGHT - Local 1121 Zone 3						
Effective Date - 01/03/2022						
Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$21.40	\$8.58	\$5.72	\$0.00	\$35.70
2	65	\$25.29	\$8.58	\$17.93	\$0.00	\$51.80
3	75	\$29.18	\$8.58	\$18.98	\$0.00	\$56.74
4	85	\$33.07	\$8.58	\$20.01	\$0.00	\$61.66
Effective Date - 01/02/2023						
Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$22.09	\$8.58	\$5.72	\$0.00	\$36.39
2	65	\$26.10	\$8.58	\$17.93	\$0.00	\$52.61
3	75	\$30.12	\$8.58	\$18.98	\$0.00	\$57.68
4	85	\$34.14	\$8.58	\$20.01	\$0.00	\$62.73
<div>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</div>						
Apprentice to Journeyworker Ratio:1:4						
MORTAR MIXER	12/01/2021	\$35.66	\$9.10	\$16.64	\$0.00	\$61.40
LABORERS - ZONE 2	06/01/2022	\$36.56	\$9.10	\$16.64	\$0.00	\$62.30
	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"						
OILER (OTHER THAN TRUCK CRANES,GRADALLS)	12/01/2021	\$23.48	\$14.00	\$16.05	\$0.00	\$53.53
OPERATING ENGINEERS LOCAL 4						
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
OILER (TRUCK CRANES, GRADALLS)	12/01/2021	\$28.44	\$14.00	\$16.05	\$0.00	\$58.49
OPERATING ENGINEERS LOCAL 4						
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
OTHER POWER DRIVEN EQUIPMENT - CLASS II	12/01/2021	\$50.83	\$14.00	\$16.05	\$0.00	\$80.88
OPERATING ENGINEERS LOCAL 4						
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PAINTER (BRIDGES/TANKS)	01/01/2022	\$53.66	\$8.65	\$23.05	\$0.00	\$85.36
PAINTERS LOCAL 35 - ZONE 2	07/01/2022	\$54.86	\$8.65	\$23.05	\$0.00	\$86.56
	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

Classification
Effective Date
Base Wage
Health
Pension
**Supplemental
Unemployment**
Total Rate
Apprentice - PAINTER Local 35 - BRIDGES/TANKS
Effective Date - 01/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.83	\$8.65	\$0.00	\$0.00	\$35.48
2	55	\$29.51	\$8.65	\$6.27	\$0.00	\$44.43
3	60	\$32.20	\$8.65	\$6.84	\$0.00	\$47.69
4	65	\$34.88	\$8.65	\$7.41	\$0.00	\$50.94
5	70	\$37.56	\$8.65	\$19.63	\$0.00	\$65.84
6	75	\$40.25	\$8.65	\$20.20	\$0.00	\$69.10
7	80	\$42.93	\$8.65	\$20.77	\$0.00	\$72.35
8	90	\$48.29	\$8.65	\$21.91	\$0.00	\$78.85

Effective Date - 07/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$27.43	\$8.65	\$0.00	\$0.00	\$36.08
2	55	\$30.17	\$8.65	\$6.27	\$0.00	\$45.09
3	60	\$32.92	\$8.65	\$6.84	\$0.00	\$48.41
4	65	\$35.66	\$8.65	\$7.41	\$0.00	\$51.72
5	70	\$38.40	\$8.65	\$19.63	\$0.00	\$66.68
6	75	\$41.15	\$8.65	\$20.20	\$0.00	\$70.00
7	80	\$43.89	\$8.65	\$20.77	\$0.00	\$73.31
8	90	\$49.37	\$8.65	\$21.91	\$0.00	\$79.93

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SPRAY OR SANDBLAST, NEW) *

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

01/01/2022	\$44.56	\$8.65	\$23.05	\$0.00	\$76.26
07/01/2022	\$45.76	\$8.65	\$23.05	\$0.00	\$77.46
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

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

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

Effective Date - 01/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.28	\$8.65	\$0.00	\$0.00	\$30.93
2	55	\$24.51	\$8.65	\$6.27	\$0.00	\$39.43
3	60	\$26.74	\$8.65	\$6.84	\$0.00	\$42.23
4	65	\$28.96	\$8.65	\$7.41	\$0.00	\$45.02
5	70	\$31.19	\$8.65	\$19.63	\$0.00	\$59.47
6	75	\$33.42	\$8.65	\$20.20	\$0.00	\$62.27
7	80	\$35.65	\$8.65	\$20.77	\$0.00	\$65.07
8	90	\$40.10	\$8.65	\$21.91	\$0.00	\$70.66

Effective Date - 07/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.88	\$8.65	\$0.00	\$0.00	\$31.53
2	55	\$25.17	\$8.65	\$6.27	\$0.00	\$40.09
3	60	\$27.46	\$8.65	\$6.84	\$0.00	\$42.95
4	65	\$29.74	\$8.65	\$7.41	\$0.00	\$45.80
5	70	\$32.03	\$8.65	\$19.63	\$0.00	\$60.31
6	75	\$34.32	\$8.65	\$20.20	\$0.00	\$63.17
7	80	\$36.61	\$8.65	\$20.77	\$0.00	\$66.03
8	90	\$41.18	\$8.65	\$21.91	\$0.00	\$71.74

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SPRAY OR SANDBLAST, REPAINT)	01/01/2022	\$42.62	\$8.65	\$23.05	\$0.00	\$74.32
PAINTERS LOCAL 35 - ZONE 2	07/01/2022	\$43.82	\$8.65	\$23.05	\$0.00	\$75.52
	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

Apprentice - PAINTER Local 35 Zone 2 - Spray/Sandblast - Repaint**Effective Date - 01/01/2022**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.31	\$8.65	\$0.00	\$0.00	\$29.96
2	55	\$23.44	\$8.65	\$6.27	\$0.00	\$38.36
3	60	\$25.57	\$8.65	\$6.84	\$0.00	\$41.06
4	65	\$27.70	\$8.65	\$7.41	\$0.00	\$43.76
5	70	\$29.83	\$8.65	\$19.63	\$0.00	\$58.11
6	75	\$31.97	\$8.65	\$20.20	\$0.00	\$60.82
7	80	\$34.10	\$8.65	\$20.77	\$0.00	\$63.52
8	90	\$38.36	\$8.65	\$21.91	\$0.00	\$68.92

Effective Date - 07/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.91	\$8.65	\$0.00	\$0.00	\$30.56
2	55	\$24.10	\$8.65	\$6.27	\$0.00	\$39.02
3	60	\$26.29	\$8.65	\$6.84	\$0.00	\$41.78
4	65	\$28.48	\$8.65	\$7.41	\$0.00	\$44.54
5	70	\$30.67	\$8.65	\$19.63	\$0.00	\$58.95
6	75	\$32.87	\$8.65	\$20.20	\$0.00	\$61.72
7	80	\$35.06	\$8.65	\$20.77	\$0.00	\$64.48
8	90	\$39.44	\$8.65	\$21.91	\$0.00	\$70.00

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER / TAPER (BRUSH, NEW) *

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

01/01/2022	\$43.16	\$8.65	\$23.05	\$0.00	\$74.86
07/01/2022	\$44.36	\$8.65	\$23.05	\$0.00	\$76.06
01/01/2023	\$45.56	\$8.65	\$23.05	\$0.00	\$77.26
07/01/2023	\$46.76	\$8.65	\$23.05	\$0.00	\$78.46
01/01/2024	\$47.96	\$8.65	\$23.05	\$0.00	\$79.66
07/01/2024	\$49.16	\$8.65	\$23.05	\$0.00	\$80.86
01/01/2025	\$50.36	\$8.65	\$23.05	\$0.00	\$82.06

Apprentice - PAINTER - Local 35 Zone 2 - BRUSH NEW

Effective Date - 01/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.58	\$8.65	\$0.00	\$0.00	\$30.23
2	55	\$23.74	\$8.65	\$6.27	\$0.00	\$38.66
3	60	\$25.90	\$8.65	\$6.84	\$0.00	\$41.39
4	65	\$28.05	\$8.65	\$7.41	\$0.00	\$44.11
5	70	\$30.21	\$8.65	\$19.63	\$0.00	\$58.49
6	75	\$32.37	\$8.65	\$20.20	\$0.00	\$61.22
7	80	\$34.53	\$8.65	\$20.77	\$0.00	\$63.95
8	90	\$38.84	\$8.65	\$21.91	\$0.00	\$69.40

Effective Date - 07/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.18	\$8.65	\$0.00	\$0.00	\$30.83
2	55	\$24.40	\$8.65	\$6.27	\$0.00	\$39.32
3	60	\$26.62	\$8.65	\$6.84	\$0.00	\$42.11
4	65	\$28.83	\$8.65	\$7.41	\$0.00	\$44.89
5	70	\$31.05	\$8.65	\$19.63	\$0.00	\$59.33
6	75	\$33.27	\$8.65	\$20.20	\$0.00	\$62.12
7	80	\$35.49	\$8.65	\$20.77	\$0.00	\$64.91
8	90	\$39.92	\$8.65	\$21.91	\$0.00	\$70.48

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER / TAPER (BRUSH, REPAINT)	01/01/2022	\$41.22	\$8.65	\$23.05	\$0.00	\$72.92
PAINTERS LOCAL 35 - ZONE 2	07/01/2022	\$42.42	\$8.65	\$23.05	\$0.00	\$74.12
	01/01/2023	\$43.62	\$8.65	\$23.05	\$0.00	\$75.32
	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

Apprentice - PAINTER Local 35 Zone 2 - BRUSH REPAINT

Effective Date - 01/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.61	\$8.65	\$0.00	\$0.00	\$29.26
2	55	\$22.67	\$8.65	\$6.27	\$0.00	\$37.59
3	60	\$24.73	\$8.65	\$6.84	\$0.00	\$40.22
4	65	\$26.79	\$8.65	\$7.41	\$0.00	\$42.85
5	70	\$28.85	\$8.65	\$19.63	\$0.00	\$57.13
6	75	\$30.92	\$8.65	\$20.20	\$0.00	\$59.77
7	80	\$32.98	\$8.65	\$20.77	\$0.00	\$62.40
8	90	\$37.10	\$8.65	\$21.91	\$0.00	\$67.66

Effective Date - 07/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.21	\$8.65	\$0.00	\$0.00	\$29.86
2	55	\$23.33	\$8.65	\$6.27	\$0.00	\$38.25
3	60	\$25.45	\$8.65	\$6.84	\$0.00	\$40.94
4	65	\$27.57	\$8.65	\$7.41	\$0.00	\$43.63
5	70	\$29.69	\$8.65	\$19.63	\$0.00	\$57.97
6	75	\$31.82	\$8.65	\$20.20	\$0.00	\$60.67
7	80	\$33.94	\$8.65	\$20.77	\$0.00	\$63.36
8	90	\$38.18	\$8.65	\$21.91	\$0.00	\$68.74

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY) LABORERS - ZONE 2 (HEAVY & HIGHWAY)	12/01/2021	\$35.41	\$9.10	\$16.64	\$0.00	\$61.15
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
PANEL & PICKUP TRUCKS DRIVER TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	12/01/2021	\$35.78	\$13.41	\$16.01	\$0.00	\$65.20
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK) PILE DRIVER LOCAL 56 (ZONE 2)	08/01/2020	\$46.11	\$9.40	\$23.12	\$0.00	\$78.63
For apprentice rates see "Apprentice- PILE DRIVER"						
PILE DRIVER PILE DRIVER LOCAL 56 (ZONE 2)	08/01/2020	\$46.11	\$9.40	\$23.12	\$0.00	\$78.63

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
Apprentice - PILE DRIVER - Local 56 Zone 2							
Effective Date - 08/01/2020							
Step	percent	Apprentice	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	0		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<div>Notes: Apprentice wages shall be no less than the following Steps; (Same as set in Zone 1) 1\$57.06/2\$61.96/3\$66.87/4\$69.32/5\$71.78/6\$71.78/7\$76.68/8\$76.68</div>							
Apprentice to Journeyworker Ratio:1:5							
PIPELAYER		12/01/2021	\$35.66	\$9.10	\$16.64	\$0.00	\$61.40
LABORERS - ZONE 2		06/01/2022	\$36.56	\$9.10	\$16.64	\$0.00	\$62.30
		12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
		06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
		12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"							
PIPELAYER (HEAVY & HIGHWAY)		12/01/2021	\$35.66	\$9.10	\$16.64	\$0.00	\$61.40
LABORERS - ZONE 2 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PLUMBER & PIPEFITTER		03/01/2022	\$49.50	\$9.80	\$16.62	\$0.00	\$75.92
PLUMBERS LOCAL 4							

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
POWDERMAN & BLASTER <i>LABORERS - ZONE 2</i>	12/01/2021	\$36.41	\$9.10	\$16.64	\$0.00	\$62.15
	06/01/2022	\$37.31	\$9.10	\$16.64	\$0.00	\$63.05
	12/01/2022	\$38.16	\$9.10	\$16.64	\$0.00	\$63.90
	06/01/2023	\$39.06	\$9.10	\$16.64	\$0.00	\$64.80
	12/01/2023	\$39.96	\$9.10	\$16.64	\$0.00	\$65.70
For apprentice rates see "Apprentice- LABORER"						
POWDERMAN & BLASTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	12/01/2021	\$36.41	\$9.10	\$16.64	\$0.00	\$62.15
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
POWER SHOVEL/DERRICK/TRENCHING MACHINE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2021	\$51.38	\$14.00	\$16.05	\$0.00	\$81.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (CONCRETE) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2021	\$51.38	\$14.00	\$16.05	\$0.00	\$81.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (DEWATERING, OTHER) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2021	\$33.69	\$14.00	\$16.05	\$0.00	\$63.74
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
READY-MIX CONCRETE DRIVER <i>TEAMSTERS 170 - Dauphinis (Bellingham)</i>	01/01/2022	\$25.75	\$9.76	\$4.00	\$0.00	\$39.51
	12/01/2022	\$26.40	\$10.26	\$4.75	\$0.00	\$41.41
	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>	12/01/2021	\$50.83	\$14.00	\$16.05	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
RIDE-ON MOTORIZED BUGGY OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2021	\$35.66	\$9.10	\$16.64	\$0.00	\$61.40
	06/01/2022	\$36.56	\$9.10	\$16.64	\$0.00	\$62.30
	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"						
ROLLER/SPREADER/MULCHING MACHINE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2021	\$50.83	\$14.00	\$16.05	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
ROOFER (Inc.Roofing Waterproofing &Roofing Dampproofing) <i>ROOFERS LOCAL 33</i>	02/01/2022	\$47.03	\$12.28	\$19.45	\$0.00	\$78.76

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
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Apprentice - ROOFER - Local 33

Effective Date - 02/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.52	\$12.28	\$5.21	\$0.00	\$41.01
2	60	\$28.22	\$12.28	\$19.45	\$0.00	\$59.95
3	65	\$30.57	\$12.28	\$19.45	\$0.00	\$62.30
4	75	\$35.27	\$12.28	\$19.45	\$0.00	\$67.00
5	85	\$39.98	\$12.28	\$19.45	\$0.00	\$71.71

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 ROOFERS LOCAL 33	02/01/2022	\$47.28	\$12.28	\$19.45	\$0.00	\$79.01
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For apprentice rates see "Apprentice- ROOFER"

SHEETMETAL WORKER SHEETMETAL WORKERS LOCAL 63	01/01/2022	\$39.29	\$10.64	\$17.33	\$2.02	\$69.28
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Apprentice - SHEET METAL WORKER - Local 63

Effective Date - 01/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$17.68	\$4.79	\$4.67	\$0.81	\$27.95
2	50	\$19.65	\$5.32	\$5.19	\$0.90	\$31.06
3	55	\$21.61	\$5.85	\$9.33	\$1.10	\$37.89
4	60	\$23.57	\$6.38	\$9.33	\$1.18	\$40.46
5	65	\$25.54	\$6.92	\$9.33	\$1.25	\$43.04
6	70	\$27.50	\$7.45	\$9.33	\$1.33	\$45.61
7	75	\$29.47	\$7.98	\$9.33	\$1.40	\$48.18
8	80	\$31.43	\$8.51	\$16.29	\$1.69	\$57.92
9	85	\$33.40	\$9.04	\$16.29	\$1.76	\$60.49
10	90	\$35.36	\$9.58	\$16.29	\$1.84	\$63.07

Notes:

Apprentice to Journeyworker Ratio:1:3

SPECIALIZED EARTH MOVING EQUIP < 35 TONS TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	12/01/2021	\$36.24	\$13.41	\$16.01	\$0.00	\$65.66
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SPECIALIZED EARTH MOVING EQUIP > 35 TONS TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	12/01/2021	\$36.53	\$13.41	\$16.01	\$0.00	\$65.95
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SPRINKLER FITTER SPRINKLER FITTERS LOCAL 669	04/01/2021	\$43.14	\$10.55	\$16.41	\$0.00	\$70.10
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Apprentice -*SPRINKLER FITTER - Local 669*

Effective Date -04/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$19.41	\$7.75	\$0.00	\$0.00	\$27.16
2	50	\$21.57	\$7.75	\$0.00	\$0.00	\$29.32
3	55	\$23.73	\$10.55	\$8.15	\$0.00	\$42.43
4	60	\$25.88	\$10.55	\$8.15	\$0.00	\$44.58
5	65	\$28.04	\$10.55	\$8.40	\$0.00	\$46.99
6	70	\$30.20	\$10.55	\$8.40	\$0.00	\$49.15
7	75	\$32.36	\$10.55	\$8.40	\$0.00	\$51.31
8	80	\$34.51	\$10.55	\$8.40	\$0.00	\$53.46
9	85	\$36.67	\$10.55	\$8.40	\$0.00	\$55.62
10	90	\$38.83	\$10.55	\$8.40	\$0.00	\$57.78

Notes:

Apprentice to Journeyworker Ratio:1:1

STEAM BOILER OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2021	\$50.83	\$14.00	\$16.05	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TAMPERS, SELF-PROPELLED OR TRACTOR DRAWN <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2021	\$50.83	\$14.00	\$16.05	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TERRAZZO FINISHERS <i>BRICKLAYERS LOCAL 3 - MARBLE & TILE</i>	02/01/2022	\$56.09	\$11.39	\$22.34	\$0.00	\$89.82

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

Effective Date -02/01/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$28.05	\$11.39	\$22.34	\$0.00	\$61.78
2	60	\$33.65	\$11.39	\$22.34	\$0.00	\$67.38
3	70	\$39.26	\$11.39	\$22.34	\$0.00	\$72.99
4	80	\$44.87	\$11.39	\$22.34	\$0.00	\$78.60
5	90	\$50.48	\$11.39	\$22.34	\$0.00	\$84.21

Notes:

Apprentice to Journeyworker Ratio:1:3

TEST BORING DRILLER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2021	\$42.58	\$9.10	\$17.72	\$0.00	\$69.40
For apprentice rates see "Apprentice- LABORER"						
TEST BORING DRILLER HELPER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2021	\$41.30	\$9.10	\$17.72	\$0.00	\$68.12
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> For apprentice rates see "Apprentice- LABORER"	12/01/2021	\$41.18	\$9.10	\$17.72	\$0.00	\$68.00
TRACTORS/PORTABLE STEAM GENERATORS <i>OPERATING ENGINEERS LOCAL 4</i> For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/01/2021	\$50.83	\$14.00	\$16.05	\$0.00	\$80.88
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> For apprentice rates see "Apprentice- LABORER"	12/01/2021	\$53.41	\$9.10	\$18.17	\$0.00	\$80.68
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE) <i>LABORERS (COMPRESSED AIR)</i> For apprentice rates see "Apprentice- LABORER"	12/01/2021	\$55.41	\$9.10	\$18.17	\$0.00	\$82.68
TUNNEL WORK - FREE AIR <i>LABORERS (FREE AIR TUNNEL)</i> For apprentice rates see "Apprentice- LABORER"	12/01/2021	\$45.48	\$9.10	\$18.17	\$0.00	\$72.75
TUNNEL WORK - FREE AIR (HAZ. WASTE) <i>LABORERS (FREE AIR TUNNEL)</i> For apprentice rates see "Apprentice- LABORER"	12/01/2021	\$47.48	\$9.10	\$18.17	\$0.00	\$74.75
VAC-HAUL <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2021	\$36.24	\$13.41	\$16.01	\$0.00	\$65.66
VOICE-DATA-VIDEO TECHNICIAN <i>ELECTRICIANS LOCAL 96</i>	09/05/2021	\$32.86	\$11.57	\$15.72	\$0.00	\$60.15
	09/04/2022	\$34.19	\$12.20	\$15.91	\$0.00	\$62.30

Apprentice - VOICE-DATA-VIDEO TECHNICIAN - Local 96

Effective Date - 09/05/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$16.43	\$11.57	\$4.10	\$0.00	\$32.10
2	55	\$18.07	\$11.57	\$4.15	\$0.00	\$33.79
3	60	\$19.72	\$11.57	\$15.32	\$0.00	\$46.61
4	65	\$21.36	\$11.57	\$15.37	\$0.00	\$48.30
5	70	\$23.00	\$11.57	\$15.42	\$0.00	\$49.99
6	75	\$24.65	\$11.57	\$15.47	\$0.00	\$51.69
7	80	\$26.29	\$11.57	\$15.52	\$0.00	\$53.38
8	85	\$27.93	\$11.57	\$15.57	\$0.00	\$55.07

Effective Date - 09/04/2022

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$17.10	\$12.20	\$4.27	\$0.00	\$33.57
2	55	\$18.80	\$12.20	\$4.32	\$0.00	\$35.32
3	60	\$20.51	\$12.20	\$15.50	\$0.00	\$48.21
4	65	\$22.22	\$12.20	\$15.55	\$0.00	\$49.97
5	70	\$23.93	\$12.20	\$15.60	\$0.00	\$51.73
6	75	\$25.64	\$12.20	\$15.65	\$0.00	\$53.49
7	80	\$27.35	\$12.20	\$15.70	\$0.00	\$55.25
8	85	\$29.06	\$12.20	\$15.75	\$0.00	\$57.01

Notes:

Apprentice to Journeyworker Ratio:1:1

WAGON DRILL OPERATOR	12/01/2021	\$35.66	\$9.10	\$16.64	\$0.00	\$61.40
LABORERS - ZONE 2	06/01/2022	\$36.56	\$9.10	\$16.64	\$0.00	\$62.30
	12/01/2022	\$37.41	\$9.10	\$16.64	\$0.00	\$63.15
	06/01/2023	\$38.31	\$9.10	\$16.64	\$0.00	\$64.05
	12/01/2023	\$39.21	\$9.10	\$16.64	\$0.00	\$64.95
For apprentice rates see "Apprentice- LABORER"						
WAGON DRILL OPERATOR (HEAVY & HIGHWAY)	12/01/2021	\$35.66	\$9.10	\$16.64	\$0.00	\$61.40
LABORERS - ZONE 2 (HEAVY & HIGHWAY)						
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
WASTE WATER PUMP OPERATOR	12/01/2021	\$51.38	\$14.00	\$16.05	\$0.00	\$81.43
OPERATING ENGINEERS LOCAL 4						
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
WATER METER INSTALLER	03/01/2022	\$49.50	\$9.80	\$16.12	\$0.00	\$75.42
PLUMBERS LOCAL 4						
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
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Additional Apprentices Information:

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

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

All steps are six months (1000 hours.)

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

** Multiple ratios are listed in the comment field.

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

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

TATNUK FIRE STATION
SECTION 020800
ASBESTOS ABATEMENT & MOLD REMEDIATION

PART I - GENERAL

1.01 GENERAL PROVISIONS

- A. The Conditions of the Contract and other Sections of Division I, General Requirements apply to this section. At a minimum, this shall include City of Worcester contract requirements and SECTION 020830 STORAGE TANK REMOVAL. All work shall be completed 30 days from Notice to Proceed. Owner is responsible for elimination of all water leaks necessary to prevent future moisture and mold growth; as well as reinsulation of areas where pipe insulation is removed.

1.02 DEFINITIONS

- A. The following definitions shall be applicable to this Section:

"Asbestos": Refers to asbestos containing materials, note all mold materials in contained areas are considered asbestos contaminated materials.

"Asbestos or Mold Abatement Contractor": Refers to the Contractor who is performing asbestos abatement and mold remediation work as outlined by this Section.

"Site(s)": Refer to Tatnuk Fire Station, 1067 Pleasant Street, Worcester, MA as described by the Contract Documents and Drawings.

"Owner": Refers to the City of Worcester and their designated, authorized personnel.

"Consultant": Refers to Atlas Technical Services, 73 William Franks Drive, West Springfield, Massachusetts (ATLAS) and their designated, authorized personnel.

"Contractor": Refers to the General Contractor who has been awarded the overall contract for renovation and demolition work outlined by the Contract Documents.

"General Contractor": Refers to the Contractor who has been awarded the overall contract for renovation work outlined by the Contract Documents.

- B. The City of Worcester has retained ATLAS as its Environmental Consultant for Project Design and Technical Advisement regarding removal of mold and asbestos under the Contract. However, all work shall be subject to final approval by the Owner.

1.03 GENERAL REQUIREMENTS/QUALIFICATIONS

- A. All Asbestos Abatement work referenced herein shall be performed by a Massachusetts licensed Asbestos Abatement Contractor in accordance with Massachusetts Department of Labor Standards (DLS) 454 CMR 28.0 Regulations and Massachusetts Department of Environmental Protection (MADEP) 310 CMR 7.00 and 7.15 Regulations.
- C. All mold remediation work referenced herein shall be performed in compliance with applicable regulatory standards including but not limited to OSHA 29 CFR 1910 Standards for General Industry, OSHA 29 CFR 1926 Standards for the Construction Industry, and the USEPA guidelines for mold remediation.

TATNUK FIRE STATION
SECTION 020800
ASBESTOS ABATEMENT & MOLD REMEDIATION

- D. In addition, all work shall be performed in accordance with a Health and Safety Plan (HASP) developed by the Abatement Contractor in accordance with Occupational Safety and Health Administration (OSHA) regulations, including HAZWOPER, and any other applicable federal, state, or local regulations pertaining to asbestos, mold, lead, PCB etc. remediation and disposal.
- E. Qualifications of Asbestos Abatement Contractor
1. The Asbestos Abatement Contractor shall provide the project name, contact person and phone number of three (3) projects which were successfully completed of similar size and scope within the last two (2) years. Each project shall have been completed in good standing and the work performed by the Asbestos Abatement Contractor for each project resulted in no work violations/citations, contract delays, contract extensions/disputes or litigation. Failure to provide this information and/or meet the approval of these qualifications by the Owner may result in rejection of the Asbestos Abatement Contractor.
 2. The Owner, Architect or Consultant shall also reserve the right to research and utilized other information received from any other projects completed by the Asbestos Abatement Contractor not provided under 1.03 D (1) above, regardless of the date completed, location or circumstances resulting from the outcome of their work. The Owner shall reserve their right to reject the Asbestos Abatement Contractor based upon this review, for any reason, if found to be in the best interest of the Owner. The General Contractor shall not receive additional compensation or additional contract time for having to retain another Asbestos Abatement Contractor who meets the qualifications outlined herein.

NOTE: The Asbestos Abatement Contractor shall not be authorized to begin work until all credentials outlined above are reviewed and approved by the consultant.

1.04 DESCRIPTION OF WORK

- A. This section details the areas where asbestos abatement and mold remediation work is to be performed and lists areas requiring special protection during the work. The Asbestos Abatement Contractor shall furnish all labor, materials, services, training, insurance, and equipment as needed to complete the work as indicated below. The Asbestos Abatement Contractor shall follow all Federal, State and local ordinances, regulations and rules pertaining to asbestos abatement and mold remediation, including its abatement, storage, transportation and disposal. Table 1 provides the general locations of the work. Refer to attached field notes and plan for additional information.
- B. Quantity estimates have been provided for bidding purposes. It shall be the Asbestos Abatement Contractor's responsibility to verify all quantity estimates in preparation of their bids, including the location and conditions of all asbestos-containing materials to be abated under this contract. No additional compensation and/or contract time shall be granted to the Asbestos Abatement Contractor for failure to perform this requirement and no compensation shall be granted for variations in the quantities presented herein. Full access to the site has been granted during the bidding process for this purpose.

TATNUK FIRE STATION
SECTION 020800
ASBESTOS ABATEMENT & MOLD REMEDIATION

Table 1 Asbestos and Mold Removal Scope of Work

Boiler Room	
Asbestos Removal	<ol style="list-style-type: none"> 1. Remove under containment and dispose of ~105 square feet (SF) boiler insulation, 16 linear feet (LF) of pipe insulation, and all associated gasket material and debris from interior of boiler. Disassemble boiler segments as necessary to remove gaskets, remove and dispose old boiler. Characterize and dispose of ash as hazardous waste. 2. Area to be cleared by Phase Contrast Microscopy. 3. Perform asbestos abatement prior to mold abatement.
Mold Removal	<ol style="list-style-type: none"> 1. Remove under containment ~35 SF sheetrock from above boiler. 2. Treat all surfaces (~1,200 SF walls, ceiling, floor, etc.) with appropriate detergent. 3. HEPA vacuum work area upon completion of work.
North Crawlspace	
Asbestos Removal	<ol style="list-style-type: none"> 1. Remove under containment and dispose of ~1,500 SF debris and contaminated soil (remove 1 inch of soil throughout), ~435 LF pipe insulation, ~50 pipefittings. 2. Area to be cleared by Phase Contrast Microscopy.
Mold Removal	<ol style="list-style-type: none"> 1. If visible mold present, surface clean under containment floor joists and subflooring at crawlspace with an appropriate detergent. 2. If visible mold present, encapsulate floor joists and subflooring with antifungal paint after cleaning. 3. HEPA vacuum work area upon completion of work.
South Crawlspace	
Asbestos Removal	<ol style="list-style-type: none"> 1. Remove under containment and dispose of ~1,500 SF debris and contaminated soil (remove 1 inch of soil throughout), ~390 LF pipe insulation, ~65 pipe fittings. 2. Area to be cleared by Phase Contrast Microscopy. 3. Perform asbestos abatement prior to mold abatement.
Mold Removal	<ol style="list-style-type: none"> 1. Surface clean under containment ~450 SF floor joists and subflooring at South end of crawlspace with an appropriate detergent. 2. Encapsulate ~450 SF floor joists and subflooring with antifungal paint after cleaning. 3. HEPA vacuum work area upon completion of work.

- C. The following Scope of Work and Requirements shall be applicable for asbestos abatement and mold remediation work at the site. If a specific note for an abatement procedure or requirement is not mentioned herein, the Asbestos Abatement Contractor shall perform the removal of such material in accordance with local, state and federal regulations. The Asbestos Abatement Contractor shall also coordinate all work with the General Contractor.
1. All Asbestos Abatement work shall take place in accordance with the provisions outlined herein as well as current local, state and federal regulations. No additional compensation shall be granted to the Asbestos Abatement Contractor for compliance

TATNUK FIRE STATION
SECTION 020800
ASBESTOS ABATEMENT & MOLD REMEDIATION

with applicable laws when performing the abatement work at the site. This shall include any regulatory requirements that mandate additional or more restrictive containment and abatement procedures than what has been presented herein. It shall be the Asbestos Abatement Contractor's responsibility to comply with such regulations as well as any other additional requirements outlined by this Section.

2. The Asbestos Abatement Contractor shall coordinate with the General Contractor as to the locations of areas to be abated in accordance with the Scope of Work outlined herein and the Drawings.
3. The Asbestos Abatement Contractor shall be responsible for all demolition work required in order to access all materials for abatement or remediation. .
4. All removal procedures shall take place under full containment and a three-stage decontamination unit under negative pressure (unless otherwise approved by the Consultant).
5. With regards to the variance from requirements on polyethylene sheeting on “impervious wall” surfaces, the Asbestos Abatement Contractor shall be required to adhere to all requirements outlined by MADLS regulations governing work area set-up for asbestos abatement. This process shall be applicable for all work areas deemed to contain impervious surfaces by the Asbestos Abatement Contractor. In addition, the Asbestos Abatement Contractor shall take full responsibility including all costs associated with approval and/or denial of such actions (i.e. non use of polyethylene) if determined to be deficient by the Owner's Consultant and/or MADLS or MADEP. If the variance is not permitted by said parties; the Asbestos Abatement Contractor shall proceed with installation of polyethylene sheeting on such surfaces at no additional cost to the Owner.
7. The following requirements shall be applicable for abatement of all asbestos contaminated soil, debris, pipe insulation, and fittings.
 - Removal of asbestos debris shall be completed prior to removing 1 inch of contaminated soil throughout each crawlspace. All material is to be disposed of as ACM.
 - Removal shall also include all remaining pipe insulation and associated fittings. All material to be disposed of as ACM.
 - At locations where pipe insulation is located beyond the limits of work specified herein, removal shall include the cutting of pipe insulation up to the nearest wall or floor penetration. The pipe insulation shall be “squared off” and wrapped with wettable pipe lagging in a professional manner. Any damaged to pipe insulation to remain beyond that point resulting from the Abatement work shall be removed or repaired at no cost by the Asbestos Abatement Contractor.
 - All damaged caused to building materials as a result of the abatement shall be repaired by the Asbestos Abatement Contractor.
8. The following requirements shall be applicable for all mold contaminated materials. The Asbestos Abatement Contractor shall be made aware that the following materials

TATNUK FIRE STATION
SECTION 020800
ASBESTOS ABATEMENT & MOLD REMEDIATION

are mold contaminated due to past plumbing failure in the building and require proper remediation and disposal as part of the Scope of Work specified herein:

- Sheetrock
- Framing (floor joists, subflooring, sill, girders)
- Plaster

The Asbestos Abatement Contractor shall perform remedial cleaning or removal on impacted materials specified herein. In most locations, the work will be performed concurrently with the asbestos abatement work undergoing for a specific room/area since the mold impacted materials are also contaminated with asbestos. The Asbestos Abatement Contractor shall clean all mold impacted sheetrock, framing, etc. in accordance with asbestos removal requirements herein; including but not limited to containment, trained personnel, medical clearances, personal protective equipment, clearance sampling, etc. Mold cleaner shall be Fiberlock Shockwave or equivalent, Encapsulant shall be Fiberlock Aftershock or equivalent.

In general, mold remediation shall include the following:

- Establishment of engineering controls and critical barriers in preparation of the work areas for removal of water-damaged materials.
- Removal of damaged/contaminated building materials in designated areas.
- Thorough fine cleaning of remaining building material surfaces within the remediation work area.
- Sealing of specified surfaces with anti-fungal coating.
- Criteria for post-abatement efficacy assessment.

The Asbestos Abatement Contractor shall be responsible for determining the specific requirements for remediation of the mold impacted surfaces identified herein. Failure on behalf of the Asbestos Abatement Contractor to comply with all applicable requirements does not relieve the Asbestos Abatement Contractor from any liability and/or requirements for performance of the work. Regulations, in the most current version, are applicable throughout the work and where there is a conflict between this Protocol and Federal, State, or local regulations, the more restrictive or stringent requirements shall prevail. The following references have been provided for guidance:

- *Bioaerosols, Their Assessment and Control*. American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio, 1999
- *Mold Remediation in Schools and Commercial Buildings*. U.S. Environmental Protection Agency, 2008.
- *Guidelines on Assessment and Remediation of Fungi in Indoor Environments*. New York City Department of Health. Updated April, 2002.
- *Carpet Cleaning Standard S100*. Institute of Inspection, Cleaning, and Restoration Certification (IICRC).
- *Standard and Reference Guide for Professional Water Damage Restoration S500 (4th Edition)*. American National Standards Institute (ANSI)/Institute of Inspection, Cleaning, and Restoration Certification (IICRC), 2015.

TATNUK FIRE STATION
SECTION 020800
ASBESTOS ABATEMENT & MOLD REMEDIATION

- *Standard for Professional Mold Remediation S520 (3rd Edition). ANSI/IICRC, 2015.*
- *Assessment, Cleaning, and Restoration of HVAC Systems ACR 2005. National Air Duct Cleaners Association 2004.*

1.05 SUBMITTALS

- A. In addition to items required by other sections of the Contract, the following submittals are required for review and approval by the Architect on/or before the Pre-Construction Meeting:
1. Asbestos Abatement
 - Copy of Massachusetts DLS Asbestos Abatement Contractor's License
 - Copy of the asbestos Notification (ANF01)
 - Chain-Of-Command list of all personnel on-site and emergency contact person(s)
 - Work plan which dictates all removal procedures to be implemented
 - Proposed waste hauler and disposal site for asbestos
 - Copy of proposed Waste Shipment Record to be used for disposal of asbestos.
 2. Mold Remediation
 - A written Respiratory Protection Program for employees, including make, model and National Institute for Occupational Safety & Health (NIOSH) approval number of the respirators to be used, as required by OSHA standards.
 - A written certification for all employees who will wear respirators at the subject space that they are properly trained for respirator use in accordance with 29 CFR 1910.134.
 - Current fit test certificates for each employee who will wear a respirator, at any time, during the course of the project.
 - Proof that all persons who will be wearing air-purifying respirators have current (less than one year prior to the date of their participation on the project) medical examinations as per OSHA requirements. Proof shall consist of a physician's written opinion of said examinations stating that the worker is physically capable of wearing a negative pressure respirator while performing his or her duties.
 - Proof that manufacturers' certification that vacuums, negative air pressure equipment filters, and other local exhaust ventilation equipment conform to ANSI Z9.2-1979
 - Certificates of Training that Contractor employees, who are on-site for this project, have been trained in microbial remediation activities.
 - Safety data sheets (SDS) and application instructions for chemical products to be used.
 - Copies of the Project Health and Safety Plan and site Job Safety Analysis.
 - Copies of all licenses and permits required for this project.
- B. In addition to the items required by other sections of the Contract, the following submittals are required for final payment

TATNUK FIRE STATION
SECTION 020800
ASBESTOS ABATEMENT & MOLD REMEDIATION

1. Copies of daily site logs describing the work performed each day, names of all workers and visitors on-site, any unusual activities, etc. The daily logs shall be signed by the Asbestos Abatement Contractor's Site Supervisor.
2. Copy of Waste Shipment Records for disposal of asbestos.

1.06 CODES AND STANDARDS

- A. All work shall conform to the standards set by applicable Federal, State and local laws, regulations, ordinances, and guidelines in such form in which they exist at the time of the work on the contract, and as may be required by subsequent regulations. In addition to any detailed requirements of the Specification, the Asbestos Abatement Contractor shall at his own cost and expense comply with all laws, ordinances, rules and regulations of Federal, State, Regional and Local Authorities regarding handling and storing of asbestos waste material. This includes all applicable OSHA regulations.
- C. All regulations and other governing agencies in their most current version are applicable throughout this project. Where there is a conflict between this Specification and the cited State, Federal, or local regulations, the more restrictive or stringent requirements shall prevail.
- D. This Section refers to many requirements found in these references, but in no way is it intended to cite or reiterate all provisions therein or elsewhere. It is the Asbestos Abatement Contractor's responsibility to know, understand, and abide by all such regulations and common practices.

1.07 FEES, PERMITS & LICENSES

- A. The Asbestos Abatement Contractor shall pay all licensing fees, royalties, and other costs necessary for the use of any copyrighted or patented product, design, invention, or process in the performance of the work specified in this section. The Asbestos Abatement Contractor shall be solely responsible for costs, damages, or losses resulting from any infringement of these patent rights or copyrights. The Asbestos Abatement Contractor shall hold the Owner, Consultant and Architect harmless from any costs, damages, and losses resulting from any infringement of these patent rights or copyrights. If the Contract Specification requests the use of any product, design, invention, or process that requires a licensing, patent or royalty fee for use in the performance of the job, the Asbestos Abatement Contractor shall be responsible for the fee or royalty fee and shall disclose the existence of such rights.
- B. Asbestos Abatement Contractor shall be responsible for costs for all licensing requirements, where applicable and notification requirements and all other fees related to the Asbestos Abatement Contractors ability to perform the work in this Section.
- C. Secure all necessary permits for work under this Section, including hauling, removal, and disposal, fire, and materials usage, or any other permits required to perform the specified work.

1.08 CLEANING

TATNUK FIRE STATION
SECTION 020800
ASBESTOS ABATEMENT & MOLD REMEDIATION

- A. Maintain the work site in a neat and orderly manner at all times, so as not to interrupt or infringe upon the work of other trades. Perform all final cleaning of abatement work areas as required by this Section and Massachusetts Regulations to the approval of the Owner's Consultant. Upon completion of work in any given area, Asbestos Abatement Contractor shall remove all material and equipment associated with the work, not necessary to complete other phases of the work in that area.
- B. Comply with all requirements for final clearance and release of a work area as described in this Section prior to take down of polyethylene and area clean-up.

1.09 COORDINATION

- A. Extend full cooperation to Owner in all matters involving the use of Owner's facilities. At no time shall the Asbestos Abatement Contractor cause or allow to be caused conditions, which may cause risk or hazard to the general public, or conditions that might impair safe use of the facility.
- B. Coordinate the work of this section with that of all other trades as directed by the General Contractor and at the express consent of the Owner and Architect. Phasing and scheduling of this project will be subject to the approval of the Owner and Architect. The work of this Section shall be scheduled and performed so as not to impede the progress of the project as a whole. Work shall not proceed in any area without the express consent of the Owner and Architect. The Asbestos Abatement Contractor shall be available within 24 hours notice for additional work if after acceptance of the work it is found that full abatement was not achieved from the initial work effort as determined by the Owner, Architect or Consultant.
- C. Complete Asbestos activities in the phases of the final schedule agreed upon by Owner and General Contractor.

1.10 SUBSTITUTION OF MATERIALS OR METHODS

- A. Owner and Architect approval is required for all modifications to methods, procedures, and design, which may be proposed by the Asbestos Abatement Contractor. It is the intent of these documents to allow the Asbestos Abatement Contractor to present alternative methods to the abatement processes herein, for review by Owner and Architect. Any such modifications or substitutions to methods, procedures, or design shall comply with applicable regulations. Asbestos Abatement Contractor shall submit the proposed modification or substitution in accordance with the requirements of the General Conditions, and no later than five (5) working days prior to planned commencement of proposed modification, for review and approval.
- B. Unless requests for modification or substitution are made in accordance with the above instructions and the instruction of the General Conditions, supported by sufficient proof of equality, Asbestos Abatement Contractor shall be required to furnish the specifically named or designed items, methods or procedures designated in this Section.
- C. If the modification or substitution necessitates changes or additional work, same shall be provided and the Asbestos Abatement Contractor shall assume the cost and the entire responsibility thereto unless performed under the approved Change Order Process.

TATNUK FIRE STATION
SECTION 020800
ASBESTOS ABATEMENT & MOLD REMEDIATION

- D. The Owner and Architect's permission to make such substitution shall not relieve the Asbestos Abatement Contractor from full responsibility for the work.

1.11 SITE SECURITY

- A. The Asbestos Abatement Contractor is responsible for performing all work under this contract without contaminating the building environment. This includes interiors of HVAC equipment/duct work, outside containment locations, machinery and equipment and any other release into unregulated spaces. The Asbestos Abatement Contractor is responsible for making right and clean-up of any such contamination if found to be present.
- B. The Asbestos Abatement Contractor will be responsible for the security of the work area, allowing only authorized personnel into the area, and securing assigned entrances and exits with locked doorway's at the end of the work day. Signs will be posted prior to asbestos removal and mold remediation work commencing as required by state and federal regulations and/or guidance documents.

1.12 PROJECT MONITOR

- A. The Architect (on behalf of the Owner) has retained ATLAS as their Consultant for the technical advisement and project management during the Project. In addition, ATLAS will perform project monitoring services during abatement and remediation activities. The Asbestos Abatement Contractor shall regard ATLAS's direction, as authoritative and binding as provided herein, in matters outlined by this Section.
- B. ATLAS's licensed Project Monitor, acting as the Owner's Representative, will perform monitoring of the Asbestos Abatement Contractor work practices and performance, inspection of the worksites, air/surface sampling and analysis for each phase of the asbestos and mold remediation work. Quality control and testing criteria has been established in these specifications, and will be strictly enforced. ATLAS's Project Monitor will review matters relating to safety, interpretation of the specifications, and scheduling of work, and will make decisions upon consultation with the Architect and Owner.

1.13 TEMPORARY FACILITIES

- A. Use of Owner provided facilities is specified in Division 1 and shall be coordinated through the Owner and General Contractor.

PART II - PRODUCTS

2.01 MATERIALS

- A. All materials and equipment proposed to be used on this project shall be subject to the acceptance of the Owner, Architect and Consultant. The Asbestos Abatement Contractor shall comply with local, state and federal regulations pertaining to the selection and use

TATNUK FIRE STATION
SECTION 020800
ASBESTOS ABATEMENT & MOLD REMEDIATION

of materials and equipment on this project. The Asbestos Abatement Contractor shall provide a submittal on all materials and equipment to be used for review and approval by the Architect and Consultant prior to commencement of the work.

PART III - EXECUTION

3.01 PREPARATION

- A. Critical Barriers: Prior to any masking and sealing operations which will make up the removal work area, windows, doors, openings, ducts, drains and vents will be masked and sealed with a minimum of one layer of six (6) mil polyethylene sheeting. Large openings to occupied areas, such as open doorways, hallways, passageways and major openings shall be sealed with permanent, solid construction materials and made air tight in accordance with MADLS regulations 454 CMR 28.00. Voids in the walls and ceilings that are due to penetrations of conduits and pipes shall be sealed with fire retardant spray foam. Exposed electrical panels in work areas will be shut off when possible, and masked and sealed with a minimum of two (2) layers of six (6) mil polyethylene and duct tape.
- B. Decontamination Chambers: It is the Asbestos Abatement Contractor's responsibility to provide Decontamination Chambers consisting of an equipment room, shower and clean room for personnel involved in asbestos abatement and mold remediation work. The Chamber shall be masked and sealed with two layers of six mil polyethylene sheeting with flaps between each room. Each of the three rooms will be of a sufficient size to accommodate the Asbestos Abatement Contractor's contaminated personnel and related equipment. The rooms will be framed, masked, sealed and attached and sealed to the entry/exit ways of asbestos worksites. Adequate heat and light will be safely provided. The Asbestos Abatement Contractor shall provide a minimum of one water heater per work area decontamination chamber. Waste water will be filtered by 20 micron and 5 micron filters in series prior to discharge.
- C. Personal Protective Equipment: All workers shall wear appropriate PPE for removal of asbestos-containing materials as required by MADLS and OSHA Regulations. Additionally, for mold remediation work, workers shall wear safety glasses/goggles, and protective clothing, i.e., safety shoes, gloves (both impermeable and work), disposable coveralls with boot protection and hood, and head protection. Respiratory protection shall comply with the OSHA respiratory protection standard (29 CFR 1910.134). Dual cartridge filters with organic vapor filter and P-100 filter shall also be used.

3.02 ABATEMENT PROCEDURES

- A. General: The following paragraphs detail the work requirements for the regulated area. Workers shall wear tyvek suits and respiratory protection for all removals.
- B. Masking and Sealing
 - 1. Critical Barriers

TATNUK FIRE STATION
SECTION 020800
ASBESTOS ABATEMENT & MOLD REMEDIATION

- a. Prior to any masking and sealing operations which will make up the asbestos removal work area, windows, doors, openings, ducts, drains and vents will be masked and sealed with a minimum of one layer of six (6) mil polyethylene sheeting. Voids in the walls and ceilings that are due to penetrations of conduits and pipes shall be sealed with fire retardant spray foam. Large opening to occupied areas, such as open doorways, hallways, passageways and major openings shall be sealed with permanent, solid construction materials and made air tight in accordance with MADLS 454 CMR 28.00 Regulations.
- b. In areas where drains or sump pumps are located, primary filters will be placed in drain and openings sealed with 6 mil polyethylene sheeting, in addition to floor masking and sealing requirements.
- c. Any furniture, fixtures, or stored material that cannot be removed or that must remain in the work area will be covered, masked and sealed with a minimum of one layer of six (6) mil polyethylene sheeting. If the surfaces of these materials are determined to be contaminated with asbestos fibers, the Contractor shall remedial clean them prior to masking and sealing.
- d. Exposed electrical panels in work areas will be shut off when possible, and masked and sealed with a minimum of two (2) layers of six (6) mil polyethylene and duct tape.

2. Full Containment:

- a. Unless otherwise specified, floors and walls will be masked and sealed with two layers of six mil polyethylene sheeting with a minimum overlap of two feet at seams and up walls. Where it is necessary to mask and seal ceiling areas, a minimum of two (2) layers of four mil polyethylene sheeting will be used.
- b. The floors shall be covered first and the flooring plastic shall extend up on the walls. The walls shall then be covered with plastic from ceiling to floor level, thus overlapping the floor plastic. The floor shall then be covered with the second layer of plastic, the plastic extended up the walls and the edges sealed to the wall plastic. The walls shall then be covered with a second layer of plastic from ceiling to floor level, thus overlapping the second layer of floor plastic. The bottom portion of the wall plastic shall thus be sandwiched between the layers of the floor plastic. If the floor or wall plastic necessitates seams, the seams in successive layers of plastic sheet shall be staggered so as to reduce the potential for water or asbestos to penetrate through the covering.
- c. The two separate layers of six-mil polyethylene sheeting on walls and floors shall constitute the primary and secondary containment barriers, respectively. This containment, along with the decontamination chamber, will constitute full containment, and will isolate the contained worksite from surrounding areas except where air must enter the worksite due to the use of exhaust equipment.

- C. Personal Air Sampling: Daily personal and excursion sampling will be the responsibility of the Asbestos Abatement Contractor to check personal exposure levels versus respiratory protection and to check work practices. At least 25% of the workers in each shift, but not less than 2, shall be sampled. The Contractor is responsible for his own

TATNUK FIRE STATION
SECTION 020800
ASBESTOS ABATEMENT & MOLD REMEDIATION

personal sampling as outlined in OSHA Regulation 1926.1101. The Contractor shall post the personal air sample results within 24 hours.

- D. Remedial Cleaning: Remedial cleaning of horizontal surfaces, ledges, and equipment will be required prior to masking and sealing operations of work areas. Cleaning will be done using HEPA vacuums and wet methods. Determinations of additional remedial cleaning will be made on the basis of hazard potential to workers and the outside environment relating to setup and masking and sealing operations (as deemed by the Consultant). Respiratory protection and protective clothing will be required for the cleaning. Prior to remedial cleaning negative air filtration units and a three stage decontamination shall be in place and running and all wall and ceiling penetrations shall be sealed with fire retardant spray foam.
- E. Decontamination Chambers: The Contractor shall construct a decontamination chamber in accordance with local, state and federal regulations governing asbestos abatement.
- F. Negative Air Filtration: The Asbestos Abatement Contractor shall establish negative pressure air filtration within the work areas. The Asbestos Abatement Contractor shall install, operate, and maintain a sufficient number of Negative Air Filtration Units (NAFU's) to meet the requirements of local, state and federal regulations. After masking and sealing is completed and the asbestos worksite is contained and before work begins, the Asbestos Abatement Contractor shall smoke test to confirm negative pressure inside the contained worksite. The volume of air within the contained worksite should be changed at least four (4) times per hour or once every fifteen (15) minutes. The Asbestos Abatement Contractor shall be responsible for the use of negative air pressure recorder to confirm a negative air pressure of at least 0.02 inches of water column per full containment.
- G. Removals: Removal of asbestos containing materials and mold impacted surfaces, unless specified otherwise, will be performed using negative air filtration techniques, wet methods, attached three stage decontamination chambers, the masking and sealing of openings, ducts and vents, full two-layer plastic containment's and the encapsulation of post removal surfaces. Removals will be as indicated and as specified herein, and will be performed in a neat and workman like manner to the limits indicated or specified. Asbestos will be consistently and thoroughly wetted with a fine spray of amended water and will be carefully removed and immediately placed in approved and properly labeled six mil polyethylene disposal bags. Asbestos residual materials will be diligently scraped or brushed from surfaces. After brushing and scraping, surfaces will be free of visible debris and fibers and surfaces will be HEPA vacuumed clean.
- H. Visual Inspections: Work areas shall pass a visual inspection conducted by the Site Supervisor responsible for the project and the Owner's Project Monitor (i.e. Consultant). The criterion for this inspection will be the absence of visible debris in accordance with ASTM standard E1368-90. A certificate of visual inspection will be signed by the Project Monitor and the Site Supervisor after final inspection clearance. The Contractor will be responsible for the costs of visual inspection and testing required for any work which fails clearance air quality criteria.
- I. Encapsulation: A bridging encapsulant/lockdown sealant will be applied to remaining surfaces in direct contact with removal operations, polyethylene sheeting and on any

TATNUK FIRE STATION
SECTION 020800
ASBESTOS ABATEMENT & MOLD REMEDIATION

porous surfaces within the work site. The chosen encapsulant must be compatible with the replacement materials and conform to the proper edition of applicable fire and electrical standards.

- J. Work Completion: Final air clearance testing for asbestos and efficacy sampling for mold shall be performed by the Project Monitor for all areas.

3.03 DISPOSAL

All removed ACM (including mold impacted materials) shall be disposed of in accordance with the requirements outlined below and MADEP 310 CMR 7.15 Regulations.

- A. Packaging: Prior to post-abatement inspection, asbestos- containing waste material (ACWM) shall be packaged in sealed double containers and removed from the work area to a specified transportation vehicle or a designated holding area approved by the Owner. At the end of each work day the Asbestos Abatement Contractor shall remove the debris accumulated during that day's work activities using procedures outlined in the Specifications. The Asbestos Abatement Contractor shall provide a daily tally of all bags removed.
- B. Temporary Storage of Waste: An area for temporary storage of ACWM must be approved by the Owner. ACWM must be stored in a restricted area and must be in an **enclosed container** which is posted and secured whenever not in use. ACWM shall NOT be store outside the building on the ground, pavement areas or other non-enclosed area. ACWM waste material shall be loaded into a waste transportation vehicle/dumpster and hauled away as soon as there is a sufficient quantity available for direct transportation to the approved disposal site. ACWM waste shall **NOT** be transferred back to the Asbestos Abatement Contractor's yard/facility unless approved by the Owner. ACWM shall only be stored at:
1. An approved refuse transfer station facility permitted or that is managing such wastes in accordance with 310 CMR 19.061 and/or;
 2. The site of generation of the asbestos abatement activity.

Note: All ACWM shall be shipped from the site for disposal within 30 days after completion of the work and acceptance of a final visual inspection by the Consultant.

- C. OSHA/EPA labeling: Asbestos warning labels having permanent adhesive and waterproof print, or being permanently printed on the container, shall be affixed to the outside of all asbestos containers, and each inside bag. Labels will be conspicuous and legible and shall contain the following warning:

DANGER
CONTAINS ASBESTOS FIBERS
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS
DO NOT BREATH DUST
AVOID CREATING DUST

TATNUK FIRE STATION
SECTION 020800
ASBESTOS ABATEMENT & MOLD REMEDIATION

The Asbestos Abatement Contractor is directed to properly label each waste bag in accordance with the latest NESHAP standard, Section 61.150, with the following information:

SITE OWNER'S NAME
SITE NAME

- D. DOT labeling and marking: A DOT "class 9" shipping label and DOT mark shall be applied to or be printed on each packaging of ACWM.
- E. Waste Transportation: All ACWM waste shall be containerized pursuant to 310 CMR 7.15 prior to being transported. All ACWM waste shall be transported in totally enclosed vehicles or containers that are designed, constructed, and operated to prevent spills, leaks or emissions. All ACWM waste shall be transported in compliance with 40 CFR Part 61 and applicable Department of Transportation (DOT), OSHA and local regulations. Each vehicle transporting asbestos-containing waste shall be marked with asbestos danger signs during loading and unloading of the waste, in accordance with the NESHAP, 40 CFR 61.150.
- F. Asbestos waste shipment records: The Asbestos Abatement Contractor shall prepare the waste shipment records for disposal of the ACWM. **All ACWM waste to be disposed of from the site shall be shipped on an approved "Asbestos Waste Shipment Record". A representative from the Owner shall sign-off as "Generator" on the Asbestos Waste Shipment Record for each shipment leaving the site.**
- G. The following information shall be included on the waste shipment record for each and every load of ACM transported off-site:
1. The name, address and telephone number of the owner/operator of the facility or dumping ground where asbestos abatement activities have occurred;
 2. The quantity and type (friable or non-friable) of the ACWM in cubic meters (cubic yards) and a description of the container used for shipment;
 3. The name, address and telephone number of the person who conducted any asbestos abatement activity;
 4. The name and telephone number of the disposal site operator;
 5. The name and physical location of the disposal site;
 6. The date transported;
 7. The name, address, and telephone number of the transporter(s);
 8. Certification by the owner/operator of the facility or dumping ground where asbestos abatement activities have occurred/where asbestos waste was generated that the contents of each shipment have been characterized, packaged, marked and labeled in accordance with 310 CMR 7.15;
 9. Signature of each transporter confirming the contents of each shipment are in all respects in the proper condition for transport according to applicable international, federal, state and local regulations;
 10. Signature by the receiving disposal facility confirming that: i) the quantity of ACWM listed on the waste shipment record is the same as the quantity accepted for disposal; and ii) it holds appropriate permits and/or authorizations to accept for disposal ACWM described on waste shipment records.

TATNUK FIRE STATION
SECTION 020800
ASBESTOS ABATEMENT & MOLD REMEDIATION

Note: The final waste shipment records (with signature of acceptance at the landfill) for disposal of ACM from the project site shall be received by the Owner within 35 days of shipment from the site.

3.04 QUALITY CONTROL AND CLEARANCE CRITERIA

- A. The Asbestos Abatement Contractor shall be responsible for achieving acceptable visual inspections and clearance testing for all abatement areas as follows:
- Clearance inspection: ATLAS's Project Monitor shall inspect the work area and surrounding areas for clearance using visual and physical methods, prior to clearing the project.
 - **Asbestos Abatement Work Areas** - Post-abatement clearance air samples will be taken when a visual inspection by ATLAS's Project Monitor detects no visible debris, and surfaces are encapsulated and dry. Phase Contrast Microscopy (PCM) clearance testing will be performed to confirm the completion of removal. All clearance testing shall be performed in accordance with state of Massachusetts Regulations. The work areas shall be considered complete if the following criteria is met:
 1. Containment's cleared and samples analyzed by Phase Contrast Microscopy (PCM): Maximum airborne fiber concentration of <0.01 fibers per cubic centimeter for each sample.
 - **Mold Remediation Work Areas** – Upon completion of a visual inspection, ATLAS's Project Monitor shall collect environmental surface or air samples to confirm if mold remediation work has been completed as follows:
 1. Fungal Surface Sampling Analysis: Surface samples shall be collected by micro-vacuum, tape-lift, or swab sampling techniques and analyzed by direct microscopy.
 2. Ambient Fungal Bioaerosol Analysis: Fungal bioaerosol sampling shall be done to measure the total bioaerosol concentration in the work area compared to outdoor environments. Sampling shall consist of total countable bioaerosol (spore trap) samples to screen the work area for hidden mold reservoirs.

The testing shall be performed using Zefon Air-O-Cell cassettes or similar. One (1) sample will be collected from within each containment, one (1) sample collected from outside the containment area (make-up air) immediately adjacent to the containment, and one (1) control sample shall be collected from the outdoor ambient air for comparative purposes.

Clearance Criteria (As Applicable)

Air Samples

- Work area samples shall have an estimated total fungal bioaerosol concentration that is equal to or lower than the total estimated bioaerosol concentration of the control (outdoor) samples.

TATNUK FIRE STATION
SECTION 020800
ASBESTOS ABATEMENT & MOLD REMEDIATION

- Fungal taxa detected in indoor and outdoor samples shall be similar, as determined by the microbial consultant.
- The estimated bioaerosol concentration for any given fungal taxa identified in the work area samples shall be similar to or lower than that of the control samples.
- Fungal taxa considered to be indicators of significant water damage were not detected in the environmental samples. (Unless they were detected in the control sample and at the same estimated concentration or less.) Specific taxa include species of *Stachybotrys*, *Chaetomium*, and *Ulocladium*. The consultant will determine the acceptability of the analytical data if these spores are present. The presence of indicator fungi that are commonly associated with water damaged building materials in the work area samples may result in not meeting the efficacy criteria, as determined by the consultant.

Surface Samples

- Work area samples shall have an estimated total fungal surface concentration that is equal to or lower than the total estimated surface concentration of the control (outdoor) samples as determined by the microbial consultant.

Note: Should laboratory or air or surface mold or asbestos results fail the clearance criteria stated above or if the visual inspection fails, the Asbestos Abatement Contractor shall reclean the entire work at no additional cost to Owner, utilizing the methods specified in this section. The Asbestos Abatement Contractor shall pay for all additional testing and inspections until the clearance level is achieved as per this Section. The cost of additional testing and inspection shall be paid by the Asbestos Abatement Contractor by subtracting the cost for analysis and inspector's time from the Contract total.

TATNUK FIRE STATION
SECTION 020830
STORAGE TANK REMOVAL

PART I - GENERAL

1.01 GENERAL PROVISIONS

- A. The Conditions of the Contract and other Sections of Division I, General Requirements apply to this section. At a minimum, this shall include City of Worcester contract requirements and SECTION 020800 ASBESTOS ABATEMENT & MOLD REMEDIATION. All work shall be completed 30 days from Notice to Proceed.

1.02 DEFINITIONS

- A. The following definitions shall be applicable to this Section:

"Site(s)": Refer to Tatnuk Fire Station, 1067 Pleasant Street, Worcester, MA as described by the Contract Documents and Drawings.

"Owner": Refers to the City of Worcester and their designated, authorized personnel.

"Consultant": Refers to Atlas Technical Services, 73 William Franks Drive, West Springfield, Massachusetts (ATLAS) and their designated, authorized personnel.

"Contractor": Refers to the General Contractor who has been awarded the overall contract for renovation and demolition work outlined by the Contract Documents.

"Storage Tank Removal Contractor": Refers to the Contractor who is performing removal of the above ground storage tanks as outlined by this Section.

"Removal Contractor": Refers to the Contractor who is performing removal of the contaminated materials outlined by this Section.

- B. The City of Worcester has retained ATLAS as its Environmental Consultant for Project Design and Technical Advisement regarding removal of the above ground storage tanks (ASTs) and Contaminated Soil Removal (if necessary) under the Contract. However, all work shall be subject to final approval by the Owner.
- C. If necessary, ATLAS's Licensed Site Professional (LSP) shall oversee all work conducted under this scope and will be responsible for preparing submittals including Bills of Lading, obtaining approvals (unless otherwise specified herein), and making notifications, as required, to the Massachusetts Department of Environmental Protection (MassDEP) in accordance with the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000.

TATNUK FIRE STATION
SECTION 020830
STORAGE TANK REMOVAL

1.03 GENERAL REQUIREMENTS/QUALIFICATIONS

- A. All work referenced herein shall be performed by a licensed and qualified Storage Tank Removal Contractor/Removal Contractor in accordance with Local, State, and Federal regulations.
- B. Qualifications of Storage Tank Removal Contractor/Removal Contractor
1. The Storage Tank Removal Contractor's/Removal Contractor's on-site personnel or subcontractor's on-site personnel shall be certified with 40-hour "Health & Safety Training for Hazardous Waste Activities" and 10-hour construction training and annual refresher courses as required by Occupational Safety and Health Administration (OSHA) Standard 1910.120. Copies of employee certificates must be provided to the Consultant prior to the commencement of the work.
 2. The work of this Section also requires the Storage Tank Removal Contractor to provide the following additional information with regard to the work. No additional compensation and/or contract time shall be granted to the General Contractor for having to provide a substitute Contractor for removal of the AST and associated work as outlined herein
 - The project name, contact person, and phone number of five (5) projects completed of similar size and scope.
 - A detailed description of each project including contract value and duration.
 - A list of all previous and/or pending violations the Company has received within the last five (5) years from a State or Federal agency with regards to oil and hazardous materials work.
 3. The Owner or Consultant shall also reserve the right to research and utilize other information received from any other projects completed by the Storage Tank Removal Contractor not provided under 1.03 B (2) above, regardless of the date completed, location, or circumstances resulting from the outcome of their work. The Owner shall reserve their right to reject the Storage Tank Removal Contractor for any reason, if found to be in the best interest of the Owner.

NOTE: The Storage Tank Removal Contractor shall not be authorized to begin work until all credentials outlined above are reviewed and approved by the Owner and Consultant.

TATNUK FIRE STATION
SECTION 020830
STORAGE TANK REMOVAL

1.04 SCOPE OF WORK

- A. The Storage Tank Removal Contractor/Removal Contractor shall furnish all labor, materials, services, training, insurance, and equipment, as needed, to complete removal of such materials as indicated below. The Storage Tank Removal Contractor/Removal Contractor shall follow all Local, State, and Federal ordinances, regulations, and rules pertaining to such work, including removal methods, storage, transportation, and disposal.
- B. Quantity estimates are provided for bidding purposes. However, it shall be the Storage Tank Removal Contractor's/Removal Contractor's responsibility to verify all quantity estimates in preparation of their bids. No additional compensation and/or contract time shall be granted to the Storage Tank Removal Contractor for failure to perform this requirement. Full access to the site will be granted during the bidding process for this purpose.
- C. The following General Requirements, Description and Scope of Work shall be applicable for cleaning, removal and proper disposal of ASTs, contaminated soil, and hazardous materials.

1. GENERAL

- a. All work described herein shall be governed by and be conducted in accordance with all applicable Local, State, and Federal regulations. The MCP 310 CMR 40.0000, Massachusetts Underground Storage Tank Regulations 310 CMR 80.00 and 527 CMR 9.00 shall govern all activities related to the removal of the tank and lines and 520 CMR 14.00 shall govern all activities of the contaminated soil and any release of oil or hazardous material (OHM) to the environment.
- b. The Storage Tank Removal Contractor/Removal Contractor shall be responsible for the removal, transport, and disposal of contaminated materials. The Consultant will prepare Massachusetts Bills of Lading signed and stamped by the Consultant's LSP as required for transport and disposal purposes of contaminated soil, if applicable.
- c. If the Storage Tank Removal Contractor/Removal Contractor is determined to have contributed to the quantity of contaminated materials, through negligence or mishap, the Storage Tank Removal Contractor/Removal Contractor shall become responsible for the additional costs incurred with the proper storage, transport, and disposal of these materials.

2. SCOPE OF WORK

- a. TWO ABOVEGROUND NO. 2 FUEL 330 GALLON TANKS AND CONTENTS – Contractor shall remove ASTs along with the current and past feed and vent lines. Refer to the attached AST field report and plan for additional information and requirements (i.e. demolition to remove tanks, fuel lines, etc.) The ASTs gauges show the tanks are empty, it is

TATNUK FIRE STATION
SECTION 020830
STORAGE TANK REMOVAL

the responsibility of the contractor to verify the quantity of residual materials and sludge remaining in the AST's.

- b. The Storage Tank Removal Contractor shall be responsible for removing the contents of the ASTs. The contents shall be properly removed and disposed of as containerized waste using a Massachusetts uniform hazardous waste manifest or other appropriate documentation in accordance with Local, State, and Federal regulations.
- c. Prior to removal of AST's, the Storage Tank Removal Contractor shall provide all labor, tools, materials, services, and equipment necessary to remove all remaining fuel within the ASTs. The Storage Tank Removal Contractor shall also remove all residual sludge from the tanks and properly clean the tanks and feed and return piping and materials.
- d. It shall be the responsibility of the Storage Tank Removal Contractor to perform any applicable sampling required to characterize any free liquids or solids. Copies of any test results shall be provided to the Consultant prior to disposal of any liquids or sludge. The contractor should estimate approximately 100 gallons of rinsate generated during AST cleaning.
- e. All contaminated wastes generated from tank cleaning work, such as rags, sorbent media, water, disposable clothing, sludge, etc., as well as salvageable petroleum product, shall be properly handled, packaged, manifested, and disposed of off-site in accordance with Local, State, and Federal regulations, and at the Storage Tank Removal Contractor's expense. The Contractor shall use cleaning methods designed to minimize the volume of waste generated as a result of cleaning operations.
- f. The Storage Tank Removal Contractor shall protect existing site surfaces, materials, and structures from inadvertent contamination from tank cleaning operations. Should such contamination occur, the Storage Tank Removal Contractor shall be responsible for, and shall not be reimbursed for, costs associated with replacement or proper disposal of contaminated materials.
- g. The Storage Tank Removal Contractor shall properly dispose of AST's and all appurtenant piping and materials, including hold down slabs and/or anchors, in accordance with Local, State, and Federal regulations governing such transportation and disposal.
- h. The Storage Tank Removal Contractor shall prominently label the tanks with past fuel content and date of removal. The tank shall be removed from the site on the day it is removed from the subsurface or building, and transported to a certified Massachusetts tank disposal facility.
- i. Upon approval by the local fire department that tanks are gas free, the tanks shall be transported to a licensed Massachusetts tank dismantling facility in accordance with all applicable Local, State, and Federal

TATNUK FIRE STATION
SECTION 020830
STORAGE TANK REMOVAL

regulations. The Storage Tank Removal Contractor shall prepare the proper shipping documentation for transportation of the tanks. The Certificate of Receipt for proper disposal shall be submitted to the Consultant within 72 hours of tanks removal.

1.05 SUBMITTALS

- A. The following submittals are required for review and approval by the Consultant before the Pre-Construction Meeting:
1. Copies of the Storage Tank Removal Contractor/Removal Contractor certifications, notifications, and all applicable licenses.
 2. Written site-specific health and safety plan (HASP) for the work to be conducted.
 3. Copies of training, fit test, and medical surveillance records for employees assigned to the work
 4. Name, location, telephone number, and if applicable, EPA ID number of the selected transporter that will transport the oil and hazardous materials to the receiving facility(ies).
 5. The Storage Tank Removal Contractor/Removal Contractor shall submit to the Consultant a detailed accounting of the wastes generated from the work; an accounting for proposed disposal of the wastes generated detailing the name and address of the selected disposal facility and its EPA Resource Conservation and Recovery Act (RCRA) Identification Number; and clear copies of waste manifests, scale receipts, and disposal receipts.
 6. The Removal Contractor shall submit to the Consultant a written accounting of the on-site air monitoring.
 7. The Storage Tank Removal Contractor shall submit a tank cleaning/evacuation plan to the Consultant which contains information regarding air monitoring protocols; personal protective equipment (PPE) selection and training; tank or confined space entry procedures; protocols for handling of flammable or combustible liquids or sludge; grounding; methods of product removal and containment; tank and piping cleaning procedures; means of establishing a gas-free tank condition; means of disabling the tank; and other project related protocols and procedures. The plan shall be submitted for informational purposes only
 8. The Storage Tank Removal Contractor/Removal Contractor shall submit to the Consultant any incident reports generated from the work which may involve work accidents occurring at the site, and a copy of the daily work logs which include site entry by Storage Tank Removal Contractor personnel and visitors to the site.

TATNUK FIRE STATION
SECTION 020830
STORAGE TANK REMOVAL

9. The Storage Tank Removal Contractor/Removal Contractor shall submit to the Consultant all documents necessary to demonstrate compliance with applicable Local, State, and Federal regulations for work completed.

1.06 CODES AND STANDARDS

- A. All work shall conform to the standards set by applicable Local, State, and Federal laws, regulations, ordinances, and guidelines in such form in which they exist at the time of the work on the contract, and as may be required by subsequent regulations. In addition to any detailed requirements of the Specification, the Storage Tank Removal Contractor/Removal Contractor shall, at his own cost and expense, comply with all laws, ordinances, rules, and regulations of Local, State, and Federal Authorities regarding handling and storing of hazardous materials. This includes all applicable OSHA regulations.
- B. All regulations and other governing agencies in their most current version are applicable throughout this project. Where there is a conflict between this Specification and the cited Local, State, and Federal regulations, the more restrictive or stringent requirements shall prevail. This Section refers to many requirements found in these references, but in no way is intended to cite or reiterate all provisions therein or elsewhere. It is the Storage Tank Removal Contractor's/Removal Contractor's responsibility to know, understand, and abide by all such regulations and common practices.

1.07 FEES, PERMITS & LICENSES

- A. The Storage Tank Removal Contractor/Removal Contractor shall pay all licensing fees, royalties, and other costs necessary for the use of any copyrighted or patented product, design, invention, or process in the performance of the work specified in this section. The Storage Tank Removal Contractor shall be solely responsible for costs, damages, or losses resulting from any infringement of these patent rights or copyrights. The Storage Tank Removal Contractor shall hold the Owner and Consultant harmless from any costs, damages, and losses resulting from any infringement of these patent rights or copyrights. If the Contract Specification requests the use of any product, design, invention, or process that requires a licensing, patent or royalty fee for use in the performance of the job, the Storage Tank Removal Contractor shall be responsible for the fee or royalty fee and shall disclose the existence of such rights.
- B. The Storage Tank Removal Contractor/Removal Contractor shall be responsible for costs for all licensing requirements, where applicable, notification requirements, and all other fees related to the Storage Tank Removal Contractor's ability to perform the work in this Section.
- C. The Storage Tank Removal Contractor/Removal Contractor shall secure all necessary permits for work under this Section, including hauling, removal, and disposal, fire department, trenching permits, and materials usage, or any other permits required to perform the specified work.

1.08 CLEANING

- A. The Storage Tank Removal Contractor/Removal Contractor shall maintain the work site in a neat and orderly manner at all times, so as not to interrupt or infringe upon the work

TATNUK FIRE STATION
SECTION 020830
STORAGE TANK REMOVAL

of other trades, and perform all final cleaning of work areas as required by this Section and Massachusetts Regulations to the approval of the Owner/Consultant. Upon completion of work in any given area, Storage Tank Removal Contractor shall remove all material and equipment associated with the work, not necessary to complete other phases of the work in that area.

- B. The Storage Tank Removal Contractor/Removal Contractor shall comply with all requirements for final clearance and release of a work area as described in this Section and required by the Massachusetts Regulations.

1.09 COORDINATION

- A. The Storage Tank Removal Contractor/Removal Contractor shall extend full cooperation to Owner in all matters involving the use of Owner's facilities. At no time shall the Storage Tank Removal Contractor cause or allow to be caused conditions that may cause risk or hazard to the general public or conditions that might impair safe use of the facility.
- B. The Storage Tank Removal Contractor/Removal Contractor shall coordinate the work of this section with that of all other trades and on-site operations as directed by the Owner. Phasing and scheduling of this project will be subject to the approval of the Owner and Consultant. The work of this Section shall be scheduled and performed so as not to impede the progress of the project as a whole. Work shall not proceed in any area without the express consent of the Owner. The Storage Tank Removal Contractor shall be available within 24 hours notice for additional work if, after acceptance of the work, it is found that full remediation was not achieved from the initial work effort as determined by the Owner or Consultant.
- C. The Storage Tank Removal Contractor/Removal Contractor shall complete all remediation activities in the phases of the final schedule agreed upon by Owner and General Contractor.

1.10 SUBSTITUTION OF MATERIALS OR METHODS

- A. Owner approval is required for all modifications to methods, procedures, and design, which may be proposed by the Storage Tank Removal Contractor/Removal Contractor. It is the intent of these documents to allow the Storage Tank Removal Contractor/Removal Contractor to present alternative methods to the removal and restoration processes herein, for review by Owner. Any such modifications or substitutions to methods, procedures, or design shall comply with applicable regulations. Storage Tank Removal Contractor shall submit the proposed modification or substitution in accordance with the requirements of the General Conditions, and no later than five (5) work days prior to planned commencement of proposed modification, for review and approval.
- B. Unless requests for modification or substitution are made in accordance with the above instructions and the instruction of the General Conditions and supported by sufficient proof of equality, Storage Tank Removal Contractor/Removal Contractor shall be required to furnish the specifically named or designed items, methods, or procedures designated in this Section.

TATNUK FIRE STATION
SECTION 020830
STORAGE TANK REMOVAL

- C. If the modification or substitution necessitates changes or additional work, a cost estimate shall be provided and the Storage Tank Removal Contractor/Removal Contractor shall assume the cost and the entire responsibility thereto unless performed under the approved Change Order Process.
- D. The Owner's permission to make such substitution shall not relieve the Storage Tank Removal Contractor/Removal Contractor from full responsibility for the work.

1.11 SITE SECURITY

- A. The Storage Tank Removal Contractor/Removal Contractor is responsible for performing all work under this contract without contaminating the site environment with oil or hazardous materials as a result of work. This includes interior feed and return lines, outside containment locations, machinery and equipment and any other release into unregulated spaces or the environment. The Storage Tank Removal Contractor is responsible for making right and clean up of any such contamination, if found to be present, at their own expense.
- B. The Storage Tank Removal Contractor/Removal Contractor will be responsible for the security of the work area, allowing only authorized personnel into the area. Appropriate fencing, warning tape, and signs shall be posted to keep unauthorized personnel out of the work area during work and at the end of the work day.

1.12 PROJECT CONSULTANT

- A. The Consultant shall provide technical advisement and project management during the AST removal work and soil removal on behalf of the Owner. The Contractor shall regard the Consultant's direction as authoritative and binding as provided herein, in matters outlined by this Section.
- B. The Consultant, acting as the Owner's Representative, will perform monitoring of the Storage Tank Removal Contractor/Removal Contractor work practices and performance, inspection of the worksites, and analysis (as specified in this Section) for each phase of the work. Quality control and testing criteria has been established in these specifications and will be strictly enforced. The Consultant shall review matters relating to safety, interpretation of the specifications, and scheduling of work, and will make decisions upon consultation with the Owner.

TATNUK FIRE STATION
SECTION 020830
STORAGE TANK REMOVAL

PART II - PRODUCTS

2.01 MATERIALS

All materials and equipment proposed to be used on this project shall be subject to the acceptance of the Consultant. The Storage Tank Removal Contractor/Removal Contractor shall comply with Local, State, and Federal regulations pertaining to the selection and use of materials and equipment on this project. The Storage Tank Removal Contractor/Removal Contractor shall provide a submittal on all materials and equipment to be used for review and approval by the Consultant prior to commencement of the work.

PART III - EXECUTION

3.01 INSPECTION

- A. The Storage Tank Removal Contractor/Removal Contractor is required to inspect the premises to confirm the existing conditions of the work site. The Storage Tank Removal Contractor will also be familiar with future requirements and will assess site-specific requirements that will influence the performance of this work. The Storage Tank Removal Contractor/Removal Contractor is required to examine only what can be visibly and/or reasonably examined at the current time.

3.02 PPE /MONITORING EQUIPMENT

- A. Air Monitoring/Respirator Protection: The Removal Contractor shall provide real-time air monitoring in order to measure the exposure of contaminated dust to the employees and oxygen level, LEL and UEL. Employees will be required to wear respiratory protection when airborne levels exceed a set point as listed in the Site Specific Health and Safety Plan submitted by the Removal contractor. Respirators assigned to individual workers must meet or exceed NIOSH standards for respirator protection.
- B. The Removal Contractor will provide wet methods equipment to reduce exposure of employees to dust.
- C. Safety Clothing and Equipment: Each worker shall wear, at a minimum: safety vests, safety shoes, safety glasses, and head protection at all times during the work activities. Each item must meet or exceed ASTM and ANSI standards governing such apparel. Workers that have the potential of contacting oil-contaminated materials must wear approved chemical protective suits, gloves, and other appropriate Protective Personal Equipment (PPE) as necessary.

3.03 PREPARATION OF THE WORK SITE

- A. The Storage Tank Removal Contractor/Removal Contractor shall make notification to and secure all required permits from the appropriate regulatory authorities in a proper and timely manner to perform the work. No work shall commence on this project until the Storage Tank Removal Contractor has obtained these permits and has those permits posted on site.
- B. The Storage Tank Removal Contractor/Removal Contractor will seal off, prior to the start of work, floor drains, storm, and sewer drains in the designated work area. The

TATNUK FIRE STATION
SECTION 020830
STORAGE TANK REMOVAL

drains shall remain sealed for the duration of the work unless environmental conditions arise that would require these drains to be operational. Should such a situation arise, the Storage Tank Removal Contractor shall obtain approval from the Consultant prior to the removal of drain seals.

- C. The Storage Tank Removal Contractor/Removal Contractor will adequately protect the work area from weather conditions that may affect the work. Weather shall not be a viable excuse for project delays.
- D. The Storage Tank Removal Contractor/Removal Contractor shall erect fencing around the work area to control and to prevent access of unauthorized personnel into the work area in accordance with Local, State, and Federal regulations. The Storage Tank Removal Contractor is responsible for the security of the work area for the duration of the work.

3.04 DISPOSAL

- A. CAUTION NOTE FOR CONTRACTORS: All materials shall be disposed of in accordance with all laws and the provisions of this Section and any or all other applicable Local, State, and Federal regulations and guidelines. It shall be the sole responsibility of the Storage Tank Removal Contractor to assure compliance with all laws and regulations relating to disposal.
- B. All disposal procedures shall be subject to approval of the Consultant prior to commencement of the work. The Storage Tank Removal Contractor shall not remove contaminated materials from the site without the approval of the Consultant.

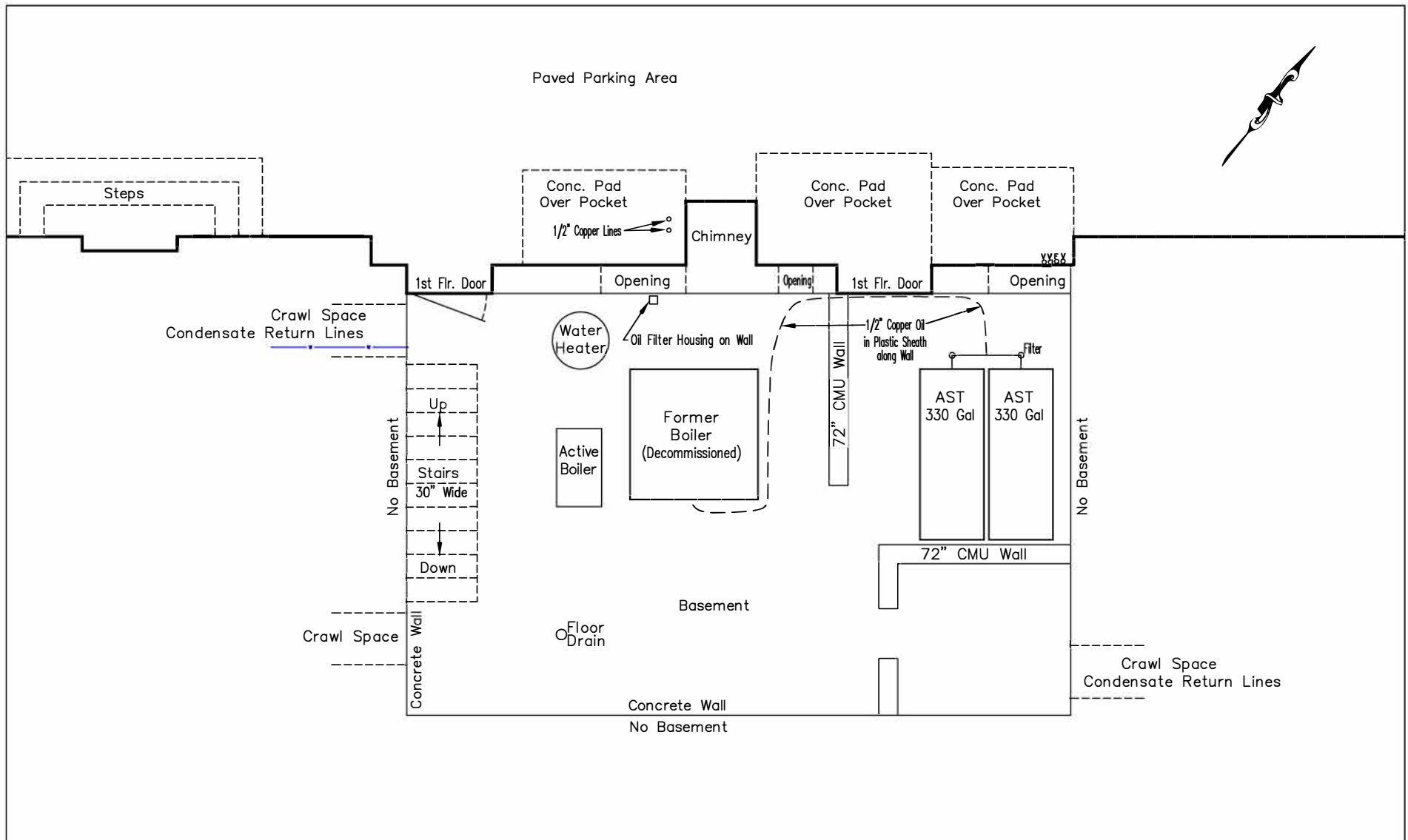
3.05 QUALITY CONTROL AND TESTING

- A. The Storage Tank Removal Contractor/Removal Contractor shall be responsible for achieving acceptable visual and/or analytical testing by the Consultant in order for the work to be considered complete. All work completed by the Storage Tank Removal Contractor shall be approved and signed-off by the Consultant.

END OF SECTION

ATTACHMENT A

Supporting Data



Approximate
Scale: 1" = 5'

Notes:
All locations and dimensions
are approximate only.
Do not scale off plans.



73 William Franks Drive • West Springfield, MA 01089
Phone: 413-781-0070 Fax: 781-207-8280

REVISIONS		
No.	Date	Description

PROJECT:	Tatnuck Fire Station 1067 Pleasant Street Worcester, Massachusetts
TITLE:	Boiler Room Layout

COMPUTER CADFILE : 183MM22013-Tatnuck-Fire.dwg			
DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
RAS			
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
Approximate 1" = 5'	3/21/22	183MM22013	

Date: March 18, 2022

Project: Tatnuck Fire Station

1067 Pleasant Street

Worcester, MA

Atlas Project: 183MM22013

Personnel: R. Starodoj, K. Fournier

Fire Fighter Steve Kelly let us in after they returned from a fire call. Mike let us out when we finished.

Entered basement area and observed one operational, natural gas fired, steam boiler installed approximately circa April 2001 per data plate on front of unit. There is a water heater to the northwest for the active boiler.

There is also another unused, oil fired steam boiler circa approximately 1940 based on documentation found hanging on the wall. The unused boiler appears to be encased in material that is likely to be asbestos given the time period that it may have been installed.

There are two above ground oil storage tanks in the northeast portion of the basement. No information plates were readily observed on these tanks. The tanks appear to be in good condition with some rust and corrosion noted to be present on the support legs. They measure approximately 72" long by 27" wide by 44" tall. Both tanks appear to be empty per the build in gauges. Some residual fuel may be present however.

These tanks are manifolded together both for fill, vent and bottom outlet draw-off. There is a canister style oil filter on the draw-off of both tanks. Just past the drawoff filters, the supply line to the boiler is manifolded together with a T connection. The supply line is approximately ½" copper and is contained within a blue corrugate plastic conduit from the T to the boiler burner on the unused boiler. The supply line goes from the tank to the northwest wall at floor level, then continues southwesterly at floor level passing through a 72" high concrete block wall and then turning southeasterly parallel to the northeast side of the unused boiler until reaching the front of the boiler and continuing upward to the oil burner gun assembly. There was no readily apparent signs of leakage. There were a few old, corroded pipes along the base of the boiler that may be part of a previous fuel line system.

An unused oil filter assembly was noted to be present on the northwest wall behind the boilers. No piping was noted to be entering or exiting the filter at this time but there was evidence of past connections.

There are three opening at various points in the northwest basement wall extending from the ceiling (approximate exterior ground level) downward approximately 3 feet. These areas appear to approximately correspond to concrete slabs observed at the outside of the building. From these openings it appears that the openings extend towards the outside of the building for approximately 3 feet. The openings may have originally been utilized as coal pockets.

The northerly most has a fill and vent pipe extending from the current ASTs to the exterior of the building. There are also two additional apparent vent pipes present next to these.

The southerly opening was noted to have two ½” copper lines protruding upward from the ground.

Various certificates and paperwork were observed to be present hanging on a hook on the southeast wall. Among them were:

A fuel oil storage permit from 1972 indicating an underground tank.

An insurance inspection paper from 1979 noting the year built of the unit to be 1940.

An insurance inspection paper from 1982 to 1986 indicating year built of 1940.

A fuel oil storage permit from 1992 indicating 2 – 275 Gal Fuel oil tanks located outside.

An insurance inspection paper from 1996 to 2000 indicating year built of 1940.

An undated permit to “Install/Alter Fuel Burning Equipment”. Also indicates underground storage.

A data plate on the active boiler appears to indicate a build date of April 2001.

There is a 72” tall concrete block wall immediately to the south east of the ASTs and another wall parallel with them to the southwest. Portions of one or both of these walls will likely need to be removed to remove the ASTs.

The stairway is approximately 30” wide. These tanks obviously came down the stairway whole for install as there is no other access. This is born out by observing that an approximately 8” cast iron roof drain leader pipe in the stairway has two “Fernco” style rubber gasketed repair couplings likely indicating that it was cut and repaired to allow the tanks room to get down the stairs. The pipe may need to be removed again to allow for removal but this should be fairly simple although awkward given the presence of the repair couplings. There are also some other copper water supply lines that appear to have been added at a later date on the southwest wall of the stairway that may have to be temporarily removed to allow for the tanks to travel up the stairway for removal.

Heating system condensate return lines, part of the steam heat system, run present along the bottom of the northwest, northeast, and southeast foundation wall perimeter. Condensate lines enter the basement from various crawl spaces located toward the top of the wall coming from the southeast and southwest wings of the building.

A floor drain is present in the southeast quadrant of the basement. It is not known whether this drain is connected to the municipal sanitary or storm system. It appears that overflow steam condensate enters this drain at times.

The water supply line and meter for the building are located under the crawl space coming in from the south west wing of the building. The gas line appears to enter from this general area also.

There is a paved parking area to the rear of the building outside of the exit doors.

One of the afore mentioned concrete pads will likely need to be opened up to one of the accessways to allow for venting of any containment as there are no other openings available other than the narrow stairway.