

**TOWN OF NORWOOD
DEPARTMENT OF PUBLIC WORKS**

INVITATION FOR BIDS NPW-25-0

**Proposed Bridge Preservation
Washington Street over Hawes Brook (N-25-017) (3JP)
Norwood, Massachusetts**



DECEMBER 20, 2024

**Town of Norwood
Department of Public Works
John J. Carroll Administration Building
1 Lyman Place
Norwood, MA 02062
Telephone: (781) 762-1413**

Mark Ryan, P.E., P.L.S., Director of Public Works/Town Engineer

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**SECTION A - ADVERTISEMENT FOR BID
TOWN OF NORWOOD, MA**

The Town of Norwood , MA 02062, the Awarding Authority, invites sealed bids for:

Washington Street Bridge Preservation

General bids will be received up until **11:00 A.M., Thursday, January 9, 2025**, on Projectdog.com project code: **866093**

Bidders must be qualified to perform the work described in these specifications in accordance with Massachusetts General Law (MGL) Chapter 30.

The complete bid package may be obtained digitally on Projectdog.com using the project code **866093**. The bid must be filled out and signed as directed herein, endorsed with the name and address of the bidder, and marked, "**Washington Street Bridge Preservation- NPW-25-03**". Bid submissions are to occur digitally on Projectdog.com. No physical copies will be accepted.

A certified check or bid bond, with acceptable surety in favor of the Town of Norwood and equal to at least five percent (5%) of the bid, must be submitted with the bid. The successful bidder shall, within ten (10) days of notification of award, furnish the Town a payment bond and performance bond in an amount equal to fifty percent (50%) of the bid.

Bids shall be prepared, considered, and the contract awarded in accordance with all statutes governing such contracts (Chapter 30 39M as amended). Every Bid shall be on forms furnished by the Town. Bids submitted on other forms may be rejected. The award of the contract shall be made within 30 working days after the opening of General Bids, Saturdays, Sundays, and Legal Holidays excluded.

An award will not be made to a Contractor who is not properly equipped to undertake and complete the work. The right is reserved to waive any informality and to reject any or all bids in accordance with the provisions of MGL as amended.

Wages are subject to minimum wage rates under the provisions of Massachusetts General Laws, Chapter 149, Section 26 to 27D inclusive, as most recently amended.

The Town of Norwood notifies all bidders that it will affirmatively ensure that minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, creed, or national origin in consideration for an award.

The right is reserved to reject any or all bids or to accept any part of a bid or the one deemed best for the Town.

BY: Tony Mazzucco, General Manager
Bill To: General Manager's Office
P.O. Box 40
Norwood, MA 02062
ATTN: Jason Adams
(781) 762-1240

SECTION B - INSTRUCTION TO BIDDERS

1. GENERAL

1.1. The Bid Documents, which form the contract, consist of the following (including all modifications thereof, incorporated in any of the documents before the execution of the contract):

- A. Advertisement for Bids
- B. Instruction to Bidders
- C. General Conditions
- D. Specifications
- E. Contract Document and Bid Page

2. PREPARATION AND SUBMISSION OF BIDS

2.1. A Bidder who desires to submit a Bid for the task contemplated in the Advertisement (Section A) shall thoroughly review and be familiar with the Specifications and Contract Documents and site conditions before submitting a bid.

3. BIDS

3.1. Each Bid shall conform to the following:

- 3.1.1. It shall be on the forms furnished by the Town which are included in the Bid Package and titled Contract Document and Bid Page.
- 3.1.2. It shall be completely filled in by printing in ink or typed.
- 3.1.3. Bid shall be submitted electronically on Projectdog.com using project code:866093 No physical copies will be accepted. The bid must include the following identifier:

"BID FOR: WASHINGTON STREET BRIDGE PRESERVATION, CONTRACT #NPW-25-06"

3.2. A Bid shall not be considered which is not in the possession of an authorized representative of the Purchasing Department by the time indicated in the advertisement for the opening of the subject Bid.

3.3. A Bid must be signed, as follows:

- 3.3.1. If the Bidder is an individual, personally.
- 3.3.2. If Bidder is a partnership, by the name of the partnership, followed by the signature of each partner.
- 3.3.3. If operating under the Fictitious Names Act, by the name of fictitious identity (DBA), followed by signature of each owner.
- 3.3.4. If a corporation, by an authorized officer, whose signature shall be attested by the Secretary of the Corporation and the Corporate Seal affixed.
- 3.3.5. A Bid may be withdrawn at any time up to one (1) hour prior to the time set for the opening of the bid provided the request for withdrawal is presented in writing, signed by the Bidder in the manner and form required for submitting a Bid.
- 3.3.6. Failure to properly execute the contract shall be grounds for rejection of the Bid.
- 3.3.7. The Bidder (contractor) shall faithfully fulfill the terms, conditions, and specifications at the prices quoted in the contractor's sealed Bid to the Town. By signing the contract, the bidder acknowledges all terms and conditions set forth in all sections of the Bid package.

4. BID BONDS OR SURETY

4.1. Pursuant to the terms and conditions set forth, a bid bond or surety shall be required in an amount specified by the Town. Violation or misrepresentation of the contract and the prices quoted shall be grounds to forfeit the bid bond or surety in favor of the Town.

4.2. In order to ensure faithful fulfillment of its terms, each bid shall be accompanied by a security of 5% of the bid price, satisfactory to the Town, or by a certified check in that amount, payable to the Town of Norwood. Such securities shall be returned to the bidder unless retained by the Town under conditions hereinafter stipulated. A bid bond will be accepted as security.

4.3. Should the successful bidder fail to execute the contract and furnish the bonds and certificate of insurance within the time stipulated, the Town may, at its option, determine that the Bidder has abandoned the Contract and

thereupon the bid and acceptance shall be null and void. The guaranty accompanying the bid shall be retained and collected by the Town as liquidated damages for the delay and expense caused by the abandonment of the contract.

- 4.4. The bid security of all bidders, with the exception of the three lowest eligible bidders, will be returned within ten (10) working days after the opening of bids. The bid security of these three bidders will be returned upon execution and delivery of the contract, if an award is made, or will be returned upon expiration of said thirty-day period if no such award is made, unless forfeited by failure to execute the contract as herein before provided.

5. OPENING AND CONSIDERATION OF BIDS

- 5.1. Each Bid shall be opened at the time and place called for in the Advertisement (Section A) and shall be read publicly.
- 5.2. Consideration and acceptance of Bids shall be based on the ability of the Bidder to meet the specifications for the item(s) legally advertised and set forth in the terms, conditions, and specifications of this package and subsequent contract documents.
- 5.3. All exceptions, changes, modifications, alternates, interlineations, etc., must be clearly noted, explained, and identified by the initials of the signing parties. If Bidder's stationery is used, it shall be signed and executed as specified herein and shall be considered as part of the Bid and Contract. Substantive or material exceptions may be the cause for rejecting the bid.
- 5.4. The Town, in considering each Bid, shall, prior to any determination and a subsequent award, investigate and evaluate the Bidder.
- 5.5. The Town shall have the right to reject any and all Bids or parts thereof, or items therein, and to waive any defect or irregularities as to form, therein.
- 5.6. No Bid shall be withdrawn within thirty (30) days after the opening thereof. The Town shall have the time as indicated in which to investigate, evaluate and grant or reject the Bids. No Bid shall be withdrawn, changed, or altered within the said time.

6. AWARD OF CONTRACT

- 6.1. Within the time specified in the instructions for the award of the contract, the Town shall either reject all Bids or award the contract to that responsive and responsible bidder who best meets the required work at the lowest price. The Town reserves the right to reject any or all bids and to waive such informalities as may be permitted by law. The contract will be awarded to the lowest responsible and eligible bidder possessing the skill, ability, and integrity necessary to the faithful performance of the work. The Town, in its sole discretion, will determine if any add alternates are accepted. The lowest bid, including any accepted add alternates will be considered the low bid.
- 6.2. The formal notification date shall be the date on which the formal contract is authorized. This date shall be the date typewritten on an award letter and/or a purchase order, which shall be signed by an authorized Town official. In cases where both are issued, the date typewritten on the award letter shall supersede all other dates.
- 6.3. In those situations, wherein multiple Bids are substantially identical:
 - 6.3.1. A certified minority- or woman-owned business may be given first preference.
 - 6.3.2. A Norwood business entity may be given second preference.
 - 6.3.3. If multiple bids are still substantially identical, the winning bid will be determined by drawing lots.

SECTION C - GENERAL CONDITIONS

1. PRODUCT SPECIFICATION AND ALTERNATES

- 1.1. Any and all items that are mentioned in the contract by commercial name, trademark, or any other specific identification, shall not be construed to exclude alternate items or products not mentioned by name which are comparable with respect to quality, form, fit and function. Such reference shall not limit competition but shall be used to establish a certain standard of quality or a minimum specification.
- 1.2. All alternate items and or products shall be specifically identified and submitted in writing with the sealed Bid. The Town shall maintain the right to evaluate the alternate prior to contracting, purchasing, use or fabrication of the alternate. Subject to the provisions of the Massachusetts General Laws, Chapter 30, Section 39J, approval shall be at the sole discretion of the Town, shall be in writing to be effective, and the decision of the Town shall be final.

2. PATENT INFRINGEMENT

- 2.1. The contractor shall indemnify and save harmless the Town and all persons acting for or on behalf of it from all suits and claims against them, or any of them, arising from or occasioned by the use of any material, equipment, or apparatus, or any part of any such suit is held to constitute infringement, the contractor, within a reasonable time, will at his expense, and as the Town may elect, replace such material, equipment or apparatus with non-infringing material, equipment or apparatus, or remove the material, equipment or apparatus and refund the sums paid thereof.

3. PLACEMENT OF ORDERS

- 3.1. All orders for labor, materials, supplies, equipment, or apparatus shall be placed in writing only. Verbal orders are not binding, and the contractor takes his own risk if he performs under such orders. All notices, demands, requests, instruction, approvals, and claims must be confirmed in writing before action is taken, except in those cases that require prompt action to preserve welfare and safety. Any such violation may result in an unenforceable claim.

4. CONTRACT BONDS REQUIRED

- 4.1. A Performance Bond in the amount of one hundred percent (100%) of the contract will be required by the Town within 10 days of the date of the award letter to ensure the faithful performance of the Contract. The bond or surety shall remain in force throughout the guaranty period, warranty period, or period so specified by the Town, for all projects, products, materials, supplies, equipment, apparatus, or other designated bid items.
- 4.2. A Payment Bond in the amount of one hundred percent (100%) of the contract price will be required to be furnished by the Contractor to the Town as security for payment by the Contractor and Subcontractors for labor, materials, rental equipment and for such other purposed as are more specifically set forth in MGL, Chapter 149, Section 29, and Chapter 30, Section 39A and all amendments thereto.
- 4.3. The payment bond referred to in Chapter 149, Section 29 and Chapter 30, Section 39A is the sole security, under said sections for payment by the contractor and subcontractor for labor performed or furnished and materials used or employed therein; said security to remain in force until the validity of all such claims shall be established and finally determined and if determined and established as valid, all such claims shall be paid by the surety.
- 4.4. The Performance Bond and the Payment Bond shall be in a form satisfactory to the Town, furnished by a surety company incorporated pursuant to Chapter 175, Section 105 of the MGL or authorized to do business in the Commonwealth under Chapter 175, Section 106 of the MGL and satisfactory to the awarding authority. The name of the agency or agent writing these bonds shall be identified with or on the bond.
- 4.5. All alterations, extensions of time, extra work and any other changes authorized under these specifications, or under any part of the Contract may be made without obtaining the consent of the surety or sureties on the contract bonds.
- 4.6. The contractor shall fulfill all obligations, terms, conditions, and prices set forth in order to meet the contract agreement in full. This is inclusive of all renegotiated items or change orders that have been properly acknowledged in writing and signed by the contractor and the Town of Norwood.

5. CLARIFICATION OF TERMS

- 5.1. The term: day or working day shall be interpreted to mean Monday, Tuesday, Wednesday, Thursday, Friday, and Saturday, exclusive of legal holidays.
- 5.2. The terms: Contractor, Supplier, Seller, or Bidder shall be interpreted to mean the individual, company or corporation making a sealed Bid to the Town of Norwood for the item(s) or project(s) as advertised in Section A and specified in the bid package. Whenever the word "Contractor" is used in this agreement, it shall be understood to include heirs, executors, administrators, successors, and assigns. The Contractor shall do all the work and furnish all the material except as herein otherwise specified, necessary or proper for performing and completing the work hereinafter specified.
- 5.3. The term: Owner, Town, or Norwood shall be interpreted to mean the Town of Norwood, located in Norfolk County, Massachusetts, by its General Manager or his designated agent, at 566 Washington Street, in Norwood.

6. ALL CONTRACTS ARE SUBJECT TO APPROPRIATION

- 6.1. The execution of a contract is subject to adequate financial appropriations for the item(s) or project(s) advertised. The lack of adequate financial appropriation by the Town for the Bid item(s) or project(s) constitutes grounds to reject all Bids or those Bids that exceed the financial limitations imposed by Norwood's Annual Town Meeting.

7. SALES TAX EXEMPTION

- 7.1. The Town of Norwood is exempt from State Sales Tax under the Sales Act, Chapter 14 of the Acts of 1966 and all amendments thereto. All purchases of supplies and materials in relation to the project are therefore exempt. This should be considered when forming contract prices.

8. PREVAILING WAGE RATES

- 8.1. Bidders shall make themselves aware of the provisions of Massachusetts General Law, Chapter 149, and Sections 26 to 27F before filing a sealed Bid with the Town.
- 8.2. This law refers to the prevailing wage rate minimums as set forth by the Massachusetts Department of Labor Standards, 100 Cambridge Street, Suite 500, Boston, MA 02202.
- 8.3. The Contractor shall complete and furnish the "Statement of Compliance" form to the Commissioner of Labor Standards within 15 days after completion of the work.
- 8.4. The rate schedule and the appropriate regulations relating to the subject law will be upheld and in force for all contracts set by the Bidder and the Town of Norwood.
- 8.5. The on-site work associated with this project falls under the wage rates categories. Contract prices shall be set accordingly. The Town will have copies of the latest edition of the prevailing wage rates as determined by the Department of Labor Standards upon request.
- 8.6. The successful Bidder must submit weekly payroll records to the awarding authority for all employees who have worked under this contract. Employers also must preserve these records for three years.

9. MAKING A QUOTE

- 9.1. The bid shall be submitted on the forms provided by the Town. The bidder shall specify unit prices in figures, for each item for which a quantity is given, and shall also show the products of the representative unit prices and quantities (written in figures in the column thereof), and the total amount of the figures shall be legibly written in ink.
- 9.2. Bid forms shall be completely filled in, signed and properly sealed before submission. Bids which are incomplete, conditional, or obscure, or which contain additions not called for, may be rejected. Use the SECTION E pages of this document when submitting the bid. The lowest responsive and responsible bidder shall be awarded.

10. GUARANTY, WARRANTY AND PERFORMANCE BOND

- 10.1. When the project, service, material, supplies, equipment, etc., herein described or specified has been delivered and accepted by the Town, the required payment bond shall guarantee the faithful and full performance of the item(s) for a minimum of one (1) year following the completion and acceptance by the town of the project.

- 10.2. This condition shall be superseded by any condition speaking to warranties or guarantees set forth in the Contract Document, Specifications or properly noted as an exception by the bidder in the sealed Bid.

11. DELIVERY CHARGES

- 11.1. The price(s) quoted which correspond with the item(s), i.e., project service, material, supply, equipment, etc., specified herein shall incorporate and include all delivery and/or freight costs free on board (FOB) work site.
- 11.2. This condition shall be superseded by any specific term or condition written in the Contract Document and Bid Section, Specifications Section, or properly written as an exception by the bidder in the sealed Bid. All exceptions of this nature shall be fully explained and priced or they may be rejected by the Town and the conditions regarding "delivery charges" implemented.

12. MAXIMUM DELIVERY DATE OR COMMENCEMENT DATES

- 12.1. It is mutually understood that the formal notification date shall be the date on which the formal contract is authorized. This date shall be the date typewritten on an award letter and/or a purchase order, which shall be signed by an authorized Town official. In cases where both are issued the date typewritten on the award letter shall supersede all other dates.

13. REVENUE ENFORCEMENT AND PROTECTION PLAN

- 13.1. Pursuant to M.G.L. Chapter 62C, Section 49A, the contractor shall provide its Social Security number or Federal Identification number. An area for this number is provided in the Contract Document or as instructed herein. These statements are attested when the Bid is properly signed and executed.
- 13.2. By signing this Bid, the contractor shall certify that under penalties of perjury, the signing party has filed all State tax returns and has paid all State taxes required under law.

14. ASSIGNMENT AND/OR ORGANIZATION CHANGES

- 14.1. The Contractor shall not assign the Contract nor sublet it in whole or in part (unless specifically authorized in this Contract Document), or delegate any of the work to be performed to any other person, firm, company, corporation, or organization without the written permission of the Town. The Contractor shall not assign any monies due, or to become due to him under this Contract, without the previous written consent of the Town.
- 14.2. The bankruptcy, takeover or merger, outright purchase, majority stock purchase by another organization, or other change in ownership or status of the Contractor, or any assignment for the benefit of creditors shall, at the election of the Town:
 - 14.2.1 Terminate this Contract with all pertinent Contractual conditions contained herein effected in favor of the Town.
 - 14.2.2 Fully obligate the newly formed organization, corporation and/or legal entity to fulfill all terms and conditions of the Contract, and to perform or supply items in accordance with the specifications or descriptions contained herein.
 - 14.2.3 Failure of any Subcontractor to perform shall not relieve the Contractor of its obligation to fulfill the terms and conditions of the Contract as set forth herein.

15. HANDICAPPED REGULATIONS

- 15.1. THE TOWN OF NORWOOD, MASSACHUSETTS, advises the public, employees, and job applicants that it does not discriminate on the basis of handicapped status in admission or access to, or treatment or employment in, its programs and activities.
- 15.2. THE TOWN OF NORWOOD has designated Tony Mazzucco, General Manager, Phone: (781) 762-1240 as the contact person for inquiries, complaints or reports regarding handicapped status.

16. WORK IN HARMONY

- 16.1. In accordance with Section 44E, Chapter 149, M.G.L. the bidder by signing the Bid certifies ability to furnish labor that can work in concert with all other elements of labor employed or to be employed at the work site(s).

17. LEGAL BASIS (MGL)

17.1. All Bid procedures are subject to the most recently amended provisions of Massachusetts General Laws Chapter 30 and 149. The provisions of these statutes shall preempt any contrary or inconsistent provisions in the Contract Documents.

18. MINORITY BUSINESS ENTERPRISES

18.1. The Town of Norwood hereby notifies all Bidders that minority business enterprises will be afforded full opportunity to submit bids in response to the Advertisement to Bid and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award. As part of his obligation of the remedial action under the foregoing section, the Contractor shall endeavor to maintain on this project a not less than 5% ratio of minority employee workhours to total workhours in each job category and those classes of work enumerated in Section 44F of Chapter 149 of the Massachusetts General Laws. Attention is drawn to the fact that all requirements of the Norwood Equal Opportunity Policy shall be in effect for this contract and a copy of said policy is available at the Office of the General Manager.

18.2. Minority and women-owned businesses which are registered with the State Supplier Diversity Office, One Ashburton Place, 13th Floor, Suite 1313, Boston, MA 02108, are encouraged to make a bid for the procurement, service or item herein specified (Section D). The Town affirms that all bids will be accepted and evaluated on a fairly and equal basis with no decisions rendered on the basis of sex, race, creed, color, or national origin.

19. INSURANCE REQUIREMENTS

19.1. Before starting any work on this contract, the Contractor shall furnish evidence of insurance coverage for payment of compensation, the furnishing of other benefits under Chapter 152 of the General Laws (Worker's Compensation Law) to all persons to be employed during the work covered by these specifications, and shall continue such insurance in full force and effect during the term of this project. Under Chapter 152, Section 25C, failure to provide Worker's Compensation shall result in a stop work order requiring cessation of all business operations at the place of business or job site; a civil penalty of \$100/day for each day not in compliance; a fine of not more than \$1,500, imprisonment for not more than 1 year, or both; and withholding of the issuance or renewal of licenses or permits to operate business or construction buildings in the State. Failure to provide and continue in force such insurance and aforesaid benefits shall be deemed a material breach of any contract covering the project and shall operate as an immediate termination thereof at the election of the Awarding Authority. Said insurance shall be written with such company as may be acceptable to the Awarding Authority, and the policy shall be submitted to the Awarding Authority for examination if it so desires. Satisfactory certificates of said insurance shall be filed with the Awarding Authority prior to the commencement of any work by the Contractor on this project.

19.2. The Contractor shall carry general liability insurance in connection with all operations included in these specifications in which the Town of Norwood is named as insured. The amounts of insurance coverage shall be:

Bodily Injury Liability	\$250,000/\$500,000
Property Damage Liability	\$500,000
Or Combined Single Limit	\$1,000,000
Catastrophe Umbrella Liability	\$2,000,000

19.3. The Contractor shall affect and maintain insurance against all risks of physical loss upon all work in place and all materials stored at any work site, whether or not covered by payments made by the Awarding Authority. This insurance shall be in an amount equal to the full replacement cost thereof at all times and shall be for the benefit of the Town of Norwood, and the Contractor, as their interest may respectively appear. This insurance shall be placed with such company or companies as may be acceptable to the Awarding Authority.

19.4. In the event that the form of any policy or certificates of insurance required under this contract or the amount thereof, is not especially specified herein, or the companies writing the same are not satisfactory to the Awarding Authority, the Contractor will secure other policies or certificates in form and amount and with companies satisfactory to the Awarding Authority. The Contractor shall not cause any policies to be canceled or to permit them to lapse, and all insurance policies shall include a clause to the effect that the policy shall not be canceled or changed until fifteen days after the Awarding Authority, as hereinbefore defined, has received written notice

thereof as evidence by return receipt of registered letter. All certificates of insurance shall contain true transcripts from the policy, authenticated by the proper officer of the insurer, evidencing particularly that the Town of Norwood and the awarding Authority are included as among those insured, the extent of the insurance, the location, and operations to which the insurance applies, the expiration date, and the above-mentioned notice of cancellation clause.

19.5. All Insurance shall be paid for by the Contractor.

20. LIQUIDATED DAMAGES

20.1. The sum of Five Hundred Dollars (\$500) per day is to be agreed upon as liquidated damages, and shall be paid by the Contractor to the Owner for each and every calendar day in which any work of this contractor is uncompleted after the time stipulated for such completion, and the prices bid shall be fixed with regard to this provision. Reductions for liquidated damages shall be made from payments due to the Contractor.

21. PRICE INCLUSION

21.1. The price for any item bid and/or contracted for, unless otherwise noted or specified, shall include full compensation for all materials, equipment, tools, labor and incidental work necessary to complete the work to the satisfaction of the Town. The price shall include, without exception, all royalties and costs arising from patents, trademarks, or copyrights which are in any way involved in the work.

22. SITE VISITS

22.1. The bidder is expected to examine carefully the site(s) of the proposed work, the plans, specifications, special provisions, and contract forms before submitting a bid.

23. QUALIFICATIONS

23.1. No contract will be awarded except to responsible established bidders capable of performing the class of work contemplated. Before the awarding of the contract, any bidder may be required to show that he has the necessary facilities, experience, ability and financial resources to perform the work in a satisfactory manner and within the time stipulated. The bidder may be required to furnish the Town with statements as to his experience and financial status.

23.2. The term "lowest responsible and eligible bidder" shall mean the bidder: (1) whose bid is the lowest of those bidders possessing the skill, ability and integrity necessary for the faithful performance of the work; (2) who shall certify, that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work; (3) who shall certify that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; (4) who, where the provisions of section 8B of Chapter 29 apply, shall have been determined to be qualified thereunder; and (5) who obtains within 10 days of the notification of contract award the security by bond required under Section 29 of Chapter 149; provided that for the purposes of this section the term "security by bond" shall mean the bond of a surety company qualified to do business under the laws of the commonwealth and satisfactory to the awarding authority.

24. ACCEPTANCE OF WORK

24.1. All the work under this contract shall be done to the satisfaction of the Town, who shall in all cases determine the amount, quality, acceptability, and fitness of the several kinds of work and materials which are to be paid for hereunder and shall decide all questions which may arise as to fulfillment of this contract on the part of the Contractor. The determination and decision by the DPW Superintendent shall be final and conclusive; and in such determination and decision, in case any question shall arise, shall be a condition precedent to the right of the Contractor to receive any money hereunder.

25. PROTECTION OF WORK

25.1. All work is to be carefully protected so that no injury will come to it from water, frost, accident, or other cause, and any injury that may come to the work is to be repaired by the Town.

26. WORK IN PROGRESS AND FINAL

- 26.1. Extreme care is to be taken that the work, and all appurtenances, shall be done carefully, well, and completely, and if later errors or poor work are discovered, they shall be thoroughly repaired and rectified by the Contractor up to the time of the acceptance of the entire contract by the Director of Public Works.

27. SANITARY CONVENIENCE

- 27.1. The Contractor is to provide all necessary sanitary conveniences, properly secluded from public observation, and shall carry out all directions given to the same by the Director of Public Works.

28. CARE OF MATERIALS

- 28.1. The Contractor is to have charge of, and be liable for the loss of, or injury to, any materials delivered to him, or in the vicinity of the work, to be used thereon, and to furnish men to handle them for examination by the Town or his assistants; shall keep trimmed up in piles so placed so not to endanger them, all materials so delivered, whether furnished by him or the Town, and all refuse, rubbish and materials until removed.

29. MATERIALS TO BE REMOVED

- 29.1. The Contractor is to promptly remove from the work and its vicinity all rejected materials and the surplus earth, refuse, rubbish and excavated materials, to such points as shall be directed by the Town and dispose of them without expense to the Town.

30. LIGHTS, GUARDS, ETC.:

- 30.1. The Contractor shall at all times leave an unobstructed way along public and private ways for travelers, autos, and trucks, and for access to hydrants; shall, through the whole of every night, place and maintain over or near all places in the public or private ways obstructed or made unsafe by the Contractor in doing the work, and over or near all materials for the work placed therein, sufficient lights to protect travelers over or around such places, and materials; shall not unnecessarily inconvenience the neighboring residents; shall provide all necessary fences, guards and watchmen; shall build bridges and ways for access to property where the existing access is cut off by him, and shall take all proper precautions to protect persons and property from injury by the carrying on of work.

31. MAINTENANCE OF TRAFFIC

- 31.1. Unless permission to close a street is received in writing from the proper authority, all excavated material shall be placed so that vehicular and pedestrian traffic may be maintained at all times. If the Contractor's operations cause traffic hazards, he shall repair the road surface, provide temporary ways, erect wheel guards or fences, or take other measures for safety satisfactory to the Engineer.
- 31.2. Detours around construction will be subject to the approval of the Owner and the Engineer. Where detours are permitted, the Contractor shall provide all necessary barricades and signs as required to divert the flow of traffic. While traffic is detoured, the Contractor shall expedite construction operations and periods when traffic is being detoured will be strictly controlled by the Owner.
- 31.3. The Contractor shall take precautions to prevent injury to the public trenches. Police protection shall be provided for traffic while progress. The Contractor shall be fully responsible for damage whether or not police protection has been provided.

32. CONSTRUCTION AND LABOR CONDITIONS

- 32.1. Bidders are required to inform themselves fully of the conditions relating to construction, and labor under which the work will be or is now being performed, and this Contractor must employ so far as possible, such methods and means in carrying out his work as will not cause any interruption or interference with any other Contractor.

33. REQUIRED POLICE OFFICERS

- 33.1. Uniformed police officers shall be in attendance when directed by the authorized representative of the Public Works Department and shall be reimbursed as directed herein.

34. REMOVAL OF POSTAL BOXES

- 34.1. Should it become necessary to require the temporary removal of any postal collection or relay boxes, in connection with construction, a telephone call should be made to the Postmaster, Norwood, MA at 762-0150, giving the location of the postal equipment forty-eight hours prior to the time the construction is to begin.

35. WORK BY OTHERS

- 35.1. The following items of work except as noted will be performed by others, and are not a part of this contract:
 - 35.1.1 All underground or surface structures including boxes, frames and covers, etc., belonging to public utilities other than municipal will be adjusted to line and grade by the particular utility involved and it shall be the contractor's responsibility to notify all such utilities as the work progresses.
 - 35.1.2 All power, light, and telephone poles will be removed and/or relocated by others. (Not Applicable)
 - 35.1.3 All posting of trees designated for removal, etc., will be done by the Town.

36. TIME

- 36.1. The project shall be completed no later than June 14, 2025. Failure to comply will result in liquidated damages in the amount of five hundred dollars (\$500.00) per calendar day for each calendar day the construction has not been completed.
- 36.2. The rate of progress shall be regular and consistent and shall be such that the whole work shall be performed in accordance with the terms of this contract within the time of completion specified in the bid.
- 36.3. It is agreed that the rate of progress herein required has been purposely made low enough to allow for the ordinary delays incident to the seasonal as well as other difficulties of construction work of this character. No extension of time will be made for ordinary delays, inclement weather and accidents, and the occurrences of such will not relieve the contractor from the necessity of maintaining this rate of progress.
- 36.4. If delays are caused by acts of God, acts of Government or State, strikes, extra work, or other contingencies clearly beyond the control or responsibility of the Contractor, the Contractor shall be entitled to so much additional time wherein to perform and complete this contract on his part as the Director of Public Works shall certify in writing to be just.
- 36.5. The Contractor shall promptly start the work to be done under this contract and shall continue it to completion with all the practical dispatch.

37. TIME OF COMPLETION

- 37.1. The project shall be completed no later than June 14, 2025. Failure to comply will result in liquidated damages in the amount of five hundred dollars (\$500.00) per calendar day for each calendar day the construction has not been completed.

38. ACCESS TO WORK

- 38.1. The General Manager, employees of the General Manager or DPW, may, for any purpose, enter upon the work and premises used by the Contractor, and the Contractor shall provide safe and proper facilities, therefore. The other agents, employees or Contractors of the Town may also, for all purposes which may be required by their work or contracts, enter upon the work, and any differences or conflicts which may arise between the Contractor and other workmen or contractors of the Town in regard to their work shall be adjusted by the DPW Superintendent.
- 38.2. The General Manager, agents, and employees of the General Manager or Town may inspect at the point of manufacture any materials to be used in the work and reject such materials that are not satisfactory.
- 38.3. All material and workmanship shall be subject to inspection, examination, and test by the Town or representatives of the Town at any or all times during construction.

39. DEFECTIVE WORK, APPROVALS, ETC.

39.1. The inspection and/or approval of the work, or any part of the work, shall not relieve the Contractor of any obligation to fulfill this contract as prescribed. Defective work shall be made good and unsuitable materials and equipment may be rejected notwithstanding that such work, materials and equipment or drawings of same have been previously overlooked or approval by the Town and accepted or estimated for payment. If the work or part of it is found to be defective or unsatisfactory at any time before the final acceptance of the whole work, the Contractor shall forthwith make good such defect in a manner satisfactory to the Town. If any materials brought upon the ground for use in the work, or selected for use, is condemned by the Town as unsuitable or not in conformity with the specifications, the Contractor shall forthwith remove such materials from the vicinity of the work.

40. EMPLOYEES TO BE COMPETENT

40.1. The Contractor shall employ only competent people to do the work. If the Town notifies the Contractor that any one on the work is incompetent, unfaithful, disorderly, or otherwise unsatisfactory, such one shall be discharged from the work on this contract and shall not again be employed on it, except with the consent of the Town.

41. NOT TO ASSIGN OR SUBLET

41.1. The Contractor shall give his personal attention to the faithful prosecution of the work, shall keep the same under this personal control. The Contractor shall not assign nor sublet the work or any part of it, without the previous written consent of the General Manager and shall not, either legally or equitably assign any of the monies payable under this agreement, or his claim thereto, unless by and with the consent of the General Manager.

42. ALTERATIONS AND EXTRA WORK

42.1. The Town may make the alterations in the line, grade, plan form, dimensions or materials of the work, or any part thereof, either before or after the commencement of construction; if such alterations diminish the quantity of work to be done, they shall not warrant any claim for damages or for anticipated profits on the work that may be dispensed with; if they increase the amount of work, such increase shall be paid for according to the quantity actually done at the price stipulated for such work under this contract.

43. RESPONSIBILITY

43.1. The Contractor shall take all responsibility of the work and take all precautions for preventing injuries to persons and property in or about the work. The Contractor shall in no way be relieved of his responsibility by any right of the Town to give such permission or issue such orders. The Contractor shall bear all losses resulting to him on account of the amount or character of the work, or because the nature of the land in or on which the work is done is different from what was estimated or expected, or on account of the weather, elements, or other cause. The Contractor shall assume the defense of and indemnify and save harmless, the Town and its officers, agents and servants, from claims relating to labor and materials furnished for the work; to inventions, patents, and patent rights used in doing the work; to injuries to any person or corporation or property received or sustained by or from the Contractor and his employees in doing the work, or in consequence of any improper materials or neglect of the Contractor and his employees herein.

44. ABANDONMENT OF WORK, ETC.

44.1. If the work to be done under this contract shall be abandoned, or if this contract or any part thereof shall be sublet, without the previous written consent of the General Manager, or if the Contract or any claim thereunder shall be assigned by the Contractor other than as specified herein, or if any time the Town shall be of the opinion, and shall so certify in writing to the General Manager that the conditions herein specified as to the rate or progress are not fulfilled or that the work or any part thereof, if unnecessarily or unreasonably delayed or that the Contractor has violated any of the provisions of this Contract, the General Manager may notify the Contractor to discontinue all work or any part thereof. Thereupon the Contractor shall discontinue such work or such part thereof as the General Manager may designate, and the General Manager may thereupon by contract or otherwise may have completed the work or any part thereof and charge the entire expense of so completing the work or part thereof to the Contractor. For such completion, the Town for itself or for its contractors may take possession

of and use or cause to be used in completion of the work or part thereof any materials, machinery, implements, and tools of every description as may be found upon the line of said work. All expenses charged under this article shall be deducted and paid by the Town out of any monies then due or to become due the Contractor under this contract, or any part thereof, and in accounting thereof the Town shall not be held to obtain the lowest figures for the work of completing the contract of any part therefor, or for insuring the proper completion, but all sums actually paid therefor, shall be charged to the Contractor. In case the expenses so charged are less than the sum which would have been payable under this contract if the same had been completed by the Contractor, the Contractor shall be entitled to receive the difference; and in case such expense shall exceed the said sum, the Contractor shall pay the amount of excess to the Town.

45. QUANTITY ESTIMATES

45.1. The Town of Norwood reserves the right to increase or reduce the actual quantities of work under any item(s) in the contract.

46. CONTRACTOR CLAIMS

46.1. If the Contractor claims compensation for extra work not ordered, or for any damage sustained, he shall, within one week after the beginning of any such work or the sustaining of any such damage, make a written statement to the Town of the nature of the work performed or the damages sustained and shall, on or before the fifteenth day of the month succeeding that which in any such damage shall have been sustained, file with the Town an itemized statement of the details and amount of such work or damage; and unless such statements shall be made as so required, his claim for compensation shall be forfeited and invalid, and he shall not be entitled to payment on account of any such work or damage; and unless such statements shall be made as so required, his claim for compensation shall forfeited and invalid, and he shall not be entitled to payment on account of any such work or damage. The determination of the Town shall be final upon all questions of the amount and value of extra work, but in no greater amount than is approved in writing by the General Manager.

47. MONEY TO BE RETAINED

47.1. Subject only to the provisions of G.L. Chapter 30, §39G, if applicable, the Town may keep any monies which would otherwise be payable at any time hereunder, and apply the same, or as much as may be necessary therefor, to the payment of any expenses, losses or damages incurred by the Town and determined as monies as the Awarding Authority shall be of opinion will be required to settle all claims against the Town, its officers, agents, or servants, specified in this Contract.

48. COMPENSATION TO BE PAID CONTRACTOR

48.1. The Town will pay, and the Contractor will accept in full consideration for the performance of the Contractor's obligations the amounts set forth in the bid in the quantities performed.

49. LAWS AND REGULATIONS

49.1. The Contractor shall keep himself fully informed of all state and national laws, and municipal ordinances and regulations in any manner affecting those engaged or employed in the work, or the materials used in the work, or in any way affecting the conduct of the work and of all such orders and decrees or bodies or tribunals having any jurisdiction or authority over the same. If any discrepancy or inconsistency is discovered in the specifications or Contract for this work in relation to any such law, ordinance, regulation, order, or decree, he shall forthwith report the same to the General Manager in writing. He shall at all times himself observe and comply with, and shall cause all his agents and employees to observe and comply with, all such existing and future laws, ordinances, regulations, orders and decrees; and shall protect and indemnify the Town and the General Manager and their officers and agents against any claim or liability arising from or based on the violations of any such law, ordinance, regulation, order or decree, whether by himself or his employees.

50. STATE AND FEDERAL REQUIREMENTS

50.1. All the materials furnished, and work done are to comply with local, state, and federal laws and regulations.

51. CONTRACTOR TO PAY ALL LABOR, ETC.

- 51.1. The Contractor further agrees that he will pay for all labor performed or furnished, and for all material used or employed and other appliances and equipment used or employed in the carrying out of this contract, and shall pay all persons who contract with the principle of labor and materials on account of the work herein contemplated and that he will furnish the General Manager at his request with evidence satisfactory to the General Manager that all persons who have done work or furnished anything under this contract and all claims of private corporation or individuals for damage of any kind caused by the construction of said work have been fully paid or satisfactorily secured and in case such evidence is not furnished the General Manager may cause to be retained out of any amount due the Contractor sums sufficient to cover any such unpaid claims. While it is understood that the security required to be given to the Contractor to satisfy the condition of statute law is furnished by his giving the bond accompanying this contract, the Town may nevertheless cause any monies retained or to become due to be held and applied to the payments for labor or materials for which security is required under the provisions of law. The provisions of this article are subject to the provisions of G.L. Chapter 149, Section 29, if applicable.

52. STATUTORY SECURITY PROVIDED ONLY BY BOND

- 52.1. It is expressly understood and agreed that all sums retained or that may be retained by the Town under any of the provisions of this contract are solely for the benefit of the Town and that the security required by Section 29, Chapter 149 of the General Laws, as amended, is furnished exclusively by the bond accompanying this contract.

53. PROGRESS ESTIMATES

- 53.1. The Town shall, once in each month, make an estimate in writing of the total amount of the work done at the expiration of the prior calendar month and the amount earned by the Contractor. Estimates of lump sum items shall be based on a schedule dividing each part such that the sum of the products or prices and quantities will equal the contract price for the item. The schedule shall be submitted by the Contractor for the approval of the Town before the first estimate becomes due. Payment may at any time be withheld if the work is not proceeding in accordance with the contract. The Town may, if it deems expedient so to do, cause estimates and payments to be made more frequently than once in each month.
- 53.2. Payment will not be made for materials unless incorporated in the work.
- 53.3. The provisions of this article are subject to the provisions of G.L. Chapter 164.
- 53.4. Whenever the work is substantially complete, the Town may, if it considers the amount retained to be in excess of the amount adequate for its protection and as required by statute, at its discretion, release to the contractor all or a portion of such excess amount, and may cause the contractor to be paid, temporarily or permanently, from time to time such portion of the reserve as it deems prudent.

54. FINAL ESTIMATE AND PAYMENT

- 54.1. When in the opinion of the Town the Contract has been satisfactorily completed and final acceptance has been certified to the General Manager, the Contractor shall be informed in writing of the date of such acceptance, upon which date the Contractor's responsibility shall cease except as provided in his bond and as provided in this contract.

55. PAYMENT OF FINAL ESTIMATE TERMINATES LIABILITY TO TOWN

- 55.1. No person, firm, or corporation, other than the signer of this contract as Contractor, now has any interest hereunder, and no claims shall be made or be valid, and neither the Town, nor any agent of the Town, shall be liable for, or be held to pay any money, except as herein provided.
- 55.2. The acceptance by the Contractor of the payment of the final estimate, less the amount retained under the provisions of this contract, shall operate as and shall be a release to the Town, and every officer, agent, and employee of the Town, from any and all claim liability to the Contractor for anything done or furnished for or relating to the work, or for any act of neglect of the Town or of any person relating to or affecting the work, except the claim against the Town for the remainder, if any there be, of the amounts kept or retained as herein provided.

56. GUARANTY

- 56.1. The Contractor guarantees that the work to be done under this contract, and the materials to be furnished by him for use in the construction of the same will be free from defects or flaws. This guaranty shall be for a period of one year from and after the date of the completion of the work as incorporated in the final estimate of the Town as herein above provided. The Contractor shall at all times within said period of guaranty keep the surface of the ground over this work, or adjacent thereto, in the position and condition required by this contract, and refill any settlement or erosion in the backfilling or any surface graded by him, due to any cause whatsoever, when so directed by the Town. Should he fail to do so, the Town may have said work done as described below.
- 56.2. If, at any time within the said period of guaranty any part of the work, constructed under the terms of this contract shall require repairing, the Town may notify the Contractor in writing to make the required repairs. If the Contractor shall neglect to make such repairs to the satisfaction of the Town within three (3) days from the date of giving or mailing such notice, or if the Town determine notifying the Contractor, then the Town may make or employ others to make the repairs. The owner shall pay the expense of the same out of the sum retained for that purpose as herein provided and if said sum be inefficient the Contractor shall promptly pay the balance to the Town.
- 56.3. Upon the expiration of the said period of guaranty, provided that the work at that time shall be in good order and repair, the Contractor shall be entitled to receive the whole or such part of said sum as may remain after the expense of making said repairs, in the manner aforesaid shall have been paid therefrom.
- 56.4. It is, however, agreed that the Town may keep the whole or a portion of the sum retained, for and until completion of the settlement of all claims arising out of this contract against the Town, its officers, agents, or employees and for all expenses, losses, or damages incurred by the Town including attorney's fees and expenses by reason of said claims.

57. LEGAL ADDRESS

- 57.1. Both the address given in the bid upon which this contract is founded and the Contractor's office at or near the site of the work are hereby designated as places to either of which notice of letters, and other communications to the Contractor shall be certified, mailed or delivered. The delivering at the above-named place or depositing in a post-paid wrapper directed to the first named place, in any post office box regularly maintained by the U.S Postal Service of any notice, letter or other communication to the Contractor, shall be deemed sufficient service thereof upon the Contractor, and the date of said service shall be the date of such delivery or mailing. The first named address may be changed at any time by an instrument in writing, executed and acknowledged by the Contractor and delivered to the General Manager. Nothing herein contained shall be deemed to preclude or render inoperative the service of any notice, letter, or other communication upon the Contractor personally.

58. COMPLIANCE WITH CHAPTER 370 ACTS OF 1963

- 58.1. The Contractor shall furnish all notices and shall do all work and be responsible for all requirements of Chapter 370 of the Acts of 1963, entitled "An Act Requiring a Contractor Making An Excavation In A Public Way to Give Notice Thereof to Public Utility Companies.

59. STATUTORY PROVISIONS

59.1. EMPLOYEES MAY SELECT LODGING, ETC.

Every employee shall lodge, board, and trade where and with whom he elects; and no person or his agents or employees under contract with the Town shall directly or indirectly require as a condition of employment that the employee shall lodge, board, or trade at a particular place or with a particular person. G.L. C. 149, § 25.

59.2. EMPLOYMENT PREFERENCE

In the employment of mechanics and apprentice teamsters, chauffeurs, and laborers by the Contractor and subcontractors, preferences shall first be given to citizens of the Commonwealth who have been residents of the Commonwealth for at least six months at the commencement of their employees, who are veterans as defined in clause forty-third of G.L. C. 4, § 7 and who are qualified to perform the work to which the employment relates; and secondly, to citizens of the Commonwealth generally who have been residents of the Commonwealth for at least six months at the commencement of their employment, and if they cannot be obtained in sufficient numbers,

then to citizens of the United States. Preference shall be given to veterans and citizens who are residents of the Town. G.L. C. 149, § 26.

59.3. MINIMUM WAGE RATES

The minimum rates of wages to be paid mechanics and apprentices, chauffeurs teamsters, and laborers shall be as set forth in the schedule of rates of wages determined by the Commissioner of Labor Standards, which schedule is attached hereto and made part hereof. G.L. C.149, § 27.

59.4. WORKER'S COMPENSATION

The Contractor shall, before commencing performance of the contract, provide by insurance for the payment of compensation and the furnishing of other benefits under G.L. c. 152 to all persons to be employed under the contract, and shall continue such insurance in full force and effect during the term of the contract, all in accordance with G.L. c. 149, § 34A.

59.5. PAYMENT TO SUBCONTRACTORS

Every contract awarded pursuant to Section 44A to L, inclusive, of Chapter 149 shall contain the following subparagraphs (a) through (i) and every contract awarded pursuant to Section 39M of Chapter 30 shall contain the following subparagraph (a) through (h) and in each case those subparagraphs shall be binding between the general contractor and each subcontractor.

- (a) Forthwith after the general contractor receives payment on account of a periodic estimate, the general contractor shall pay to each subcontractor the amount paid for the labor performed and the materials furnished by the subcontractor, less any amount specified in any court proceedings barring such payment and also less any amount claimed due from the subcontractor by the general contractor.
- (b) Not later than the sixty-fifth day after each subcontractor substantially completes his work in accordance with the plans and specifications, the entire balance due under the subcontract less amounts retained by the awarding authority as the estimated cost of completing the incomplete and unsatisfactory items of work, shall be due the subcontractor the full amount received from the awarding authority less any amount specified in any court proceedings barring such payment and also less any amount claimed due from the subcontractor by the general contractor.
- (c) Each payment made by the Awarding Authority to the general contractor pursuant to subparagraphs (a) and (b) of this paragraph for the labor performed and the materials furnished by a subcontractor shall be made to the general contractor for the account of that subcontractor; and the awarding authority shall take reasonable steps to compel the general contractor to make each such payment to each subcontractor. If the Awarding Authority has received a demand for direct payment from a subcontractor for any amount which has already been included in a payment to the general contractor or which has already been included in a payment to the general contractor for payment to the subcontractor as provided in subparagraphs (a) and (b), the Awarding Authority shall act upon the demand as provided in this section.
- (d) If, within seventy days after the subcontractor has substantially completed the subcontract work, the subcontractor has not received from the general contractor the balance due under the subcontract including any amount due for extra labor and materials furnished to the general contractor, less any amount retained by the Awarding Authority as the estimated cost of completing the incomplete and unsatisfactory items of work, the subcontractor may demand direct payment of the balance from the Awarding Authority. The demand shall be by a sworn statement delivered to or sent by certified mail to the Awarding Authority, and a copy shall be delivered to or sent by certified mail to the general contractor at the same time. The demand shall contain a detailed breakdown of the balance due under the subcontract work. Any demand made after substantial completion of the subcontract work shall be valid even if delivered or mailed prior to the seventieth day after the subcontractor has substantially completed the subcontract work. Within ten days after the subcontractor has delivered or so mailed the demand to the Awarding Authority and delivered or so mailed a copy to the general contractor, the general contractor may reply to the demand. The reply shall be a sworn statement delivered to or sent by certified mail to the Awarding Authority and a copy shall be delivered to or sent by certified mail to the subcontractor at the same time. The reply shall contain a detailed breakdown of the balance due under the subcontract including any amount due for extra labor and materials furnished to the general contractor and of the amount due for each claim made by the general contractor against the subcontractor.
- (e) Within fifteen days after the receipt of the demand by the Awarding Authority, but in no event prior to the

seventieth day after substantial completion of the subcontract work, the Awarding Authority shall make direct payment to the subcontractor of the balance due under the subcontract including any amount due for extra labor and materials furnished to the general contractor, less any amount (i) retained by the Awarding Authority as the estimated cost of completing the incomplete or unsatisfactory items of work; (ii) specified in any court proceedings barring such payment, or (iii) disputed by the general contractor in the sworn reply provided, that the Awarding Authority shall not deduct from direct payment any amount as provided in part (iii) if the reply is not sworn to, or for which the sworn reply does not contain the detailed breakdown required by the subparagraph (d). The Awarding Authority shall make further direct payments to the subcontractor forthwith after the removal of the basis for deductions from direct payments made as provided in parts (i) and (ii) of this subparagraph.

- (f) The Awarding Authority shall forthwith deposit the amount deducted from a direct payment as provided in part (iii) of subparagraph (e) in an interest-bearing joint account in the names of the general contractor and the subcontractor in a bank in Massachusetts selected by the Awarding Authority or agreed upon by the general contractor and subcontractor and shall notify the general contractor and the subcontractor of the date of the deposit and the bank receiving the deposit. The bank shall pay the amount in the account, including accrued interest, as provided in an agreement between the general contractor and the subcontractor or as determined by decree of a court of competent jurisdiction.
- (g) All direct payments and all deductions from demands for direct payments deposited in an interest-bearing accounts in a bank pursuant to subparagraph (f) shall be made out of the amounts payable to the general contractor at the time of the receipt of a demand for direct payment from a subcontractor and out of the amounts which later become payable to the general contractor and in the order of receipts of such demands from subcontractors. All direct payments shall discharge the obligation of the Awarding Authority to the general contractor to the extent of said payment.
- (h) The Awarding Authority shall deduct from payments to a general contractor amounts which, together with the deposits in interest-bearing accounts pursuant to the subparagraph (f), are sufficient to satisfy all unpaid balances of demands for direct payment received from subcontractors. All such amounts shall be earmarked for such direct payments, and the subcontractors shall have a right to such deductions prior to any claims against such amounts by creditors of the general contractor.
- (i) If the subcontractor does not receive payment as provided in subparagraph (a) or if the general contractor does not submit a periodic estimate for the value of the labor or materials performed or furnished by the subcontractor and the subcontractor does not receive payment for same when due less the deductions provided for in subparagraph (a), the subcontractor may demand direct payment by following the procedure in subparagraph (d) and the general contractor may file a sworn reply as provided in that same paragraph. A demand made after the first day of the month following that for which the subcontractor performed or furnished the labor and materials for which the subcontractor performed or furnished the labor and materials for which the subcontractor seeks payment shall be valid even if delivered or mailed prior to the time payment was due on periodic estimate from the general contractor. Thereafter the Awarding Authority shall proceed as provided in subparagraph (e), (f), (g), and (h). G.L. C. 30, s. 39F.

59.6. RESERVE POLICE OFFICERS

The Contractor shall pay to any reserve police officer employed by the Town the prevailing rate of wage paid to regular police officers in the Town and as set forth in the payment item included in this contract. G.L. C.149, s. 34B.

59.7. CHANGE ORDERS

The Contractor shall perform all work required by the contract in conformity with the plans and specifications contained therein. No willful and substantial deviation from said plans and specifications shall be made unless authorized in writing by the Awarding Authority or by the Town. In order to avoid delays in the prosecution of the work required by the contract, such deviation from plans or specifications may be authorized by a written order of the Awarding Authority or an individual authorized to approve such deviation. Within thirty days thereafter, such written order shall be confirmed by a certificate of the Awarding Authority stating: (1) If such deviation involves any substitution or elimination of materials, fixtures, or equipment, the reasons why such materials, fixtures, or equipment were included in the first instance and the reasons for such deviation, giving justification therefor; (2) that the specified deviation does not materially injure the project as a whole; (3) that either the work substituted for the work specified is of the same cost and quality, or that an equitable adjustment has been agreed upon between the contracting agency and the contractor and the amount in dollars of said adjustment; and (4) that the deviation is in the best interest of the contracting authority. Such a certificate shall

be signed under the penalties or perjury and shall be a permanent part of the file record of the work contractor for.

59.8. "OR EQUAL CLAUSE"

An item equal to an item described or named in the specifications may be furnished. An item shall be considered equal to the item so named or described if: (1) it is at least equal in quality, durability, appearance, strength and design; (2) it will perform at least equally the function imposed by the general design for the work; and (3) it conforms substantially, even with deviations, to the detailed requirements for the item in the specifications.

59.9. SUBSURFACE CONDITIONS

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

60. SUSPENSION OF THE WORK

60.1. The Awarding Authority may order the Contractor in writing to suspend, delay, or interrupt all or any part of the work for such period of time as it may determine to be appropriate for the convenience of the Awarding Authority; provided, however, that if there is a suspension, delay, or interruption for fifteen days or more or due to a failure of the Awarding Authority to act within the time specified in the contract, the Awarding Authority shall not make any adjustment in the contract price under this provision for any suspension, delay, interruption, or failure to act to the extent that such is due to any cause for which this contract provides for an equitable adjustment of the contract price under any other contract provision.

60.2. The Contractor must submit the amount of a claim under the provision above to the Awarding Authority in writing as soon as practicable after the end of the suspension, delay, interruption, or failure to act and, in any event, not later than the date of final payment under this contract and, except for costs due to a suspension order, the Awarding Authority in writing of the act or failure to act involved in the claim.

61. TERMINATION AND DEFAULT

61.1. Without Cause

The Town may terminate this Contract on fourteen (14) calendar days' notice when in the best interests of the Town by providing notice to the Contractor, which shall be in writing and shall be deemed delivered and received when given in person to the Contractor, or when received by email, fax, express mail, certified mail return receipt requested, regular mail postage prepaid or delivered by any other appropriate method evidencing actual receipt by the Contractor. Upon termination without cause, Contractor will be paid for services rendered to the date of termination.

61.2. For Cause

If the Contractor is determined by the Town to be in default of any term or condition of this Contract, the Town may terminate this Contract on seven (7) days' notice by providing notice to the Contractor, which shall be in writing and shall be deemed delivered and received when given in person to the Contractor, or when received by fax, express mail, certified mail return receipt requested, regular mail postage prepaid or delivered by any other appropriate method evidencing actual receipt by the Contractor.

61.3. Default

The following shall constitute events of a default under the Contract: any material misrepresentation made by the Contractor to the Town; 2) any failure to perform any of its obligations under this Contract including, but not limited to the following: (i) failure to commence performance of this Contract at the time specified in this Contract due to a reason or circumstance within the Contractor's reasonable control, (ii) failure to perform this

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

62. THE CONTRACTOR'S BREACH AND THE TOWN'S REMEDIES

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

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

SECTION D – PROJECT SPECIAL PROVISIONS

TOWN OF NORWOOD

PROPOSED BRIDGE PRESERVATION – WESTOVER PARKWAY OVER GERMANY BROOK (N-25-017) (3JP)

SCOPE OF WORK

All work under this Contract shall be done in conformance with the *2024 Standard Specifications for Highways and Bridges*, the *Supplemental Specifications*, the *2017 Construction Standard Details*, the *Traffic Management Plans and Detail Drawings*, *MassDOT Work Zone Safety Temporary Traffic Control*, the *1990 Standard Drawings for Signs and Supports*; the *2015 Overhead Signal Structure and Foundation Standard Drawings*, the *2009 Manual on Uniform Traffic Control Devices (MUTCD) with Revisions 1, 2, and 3* and the *November 2022 Massachusetts Amendments to the MUTCD*; the *1968 Standard Drawings for Traffic Signals and Highway Lighting*; *The American Standard for Nursery Stock*; the Plans and these Special Provisions.

The proposed preservation of the existing bridge carrying Washington Street over Hawes Brook consists of the following work:

Concrete patch repairs of the prestressed adjacent concrete deck beam superstructure. Rehabilitation of the top surface of roadway deck beams with UHPC overlay, membrane waterproofing and new bridge pavement. Replacement of roadway deck beam shear key mortar. Rehabilitation of the top surface of sidewalk deck beams with self-consolidating repair mortar. Bridge railing cleaning (full removal) and painting. The approach roadways within the limits of work will be repaved and receive new pavement markings. The road will be open to traffic during construction and the Contractor shall be responsible for providing all necessary signage and barricades for each construction phase as required by the Temporary Traffic Control Plans (TTCP).

The work also includes catch basin adjustments, sawcutting and sealing joints, and other incidental work. The work to be done under this Contract includes all design, equipment, materials, labor, and incidentals required to complete all work shown on the Plans.

WORK SCHEDULE

This contract contains the following work restrictions (refer to Section C for additional information and restrictions):

The Contractor shall perform all work in accordance with Norwood standard work hours for construction as follows: Monday through Friday (Excluding Holidays) 7:00 AM to 3:00 PM

The Contractor and any subcontractors shall only work overtime as approved by the Town. The Contractor shall coordinate with the Town and Norwood Police Department to obtain a waiver if work on Saturdays, Sundays or Holidays is necessary.

The Contractor is notified that the project is adjacent to several business driveways and Endean Park located at 1305 Washington Street. The Contractor shall schedule the execution of work such that disturbances to adjacent driveways/walkways are minimized and kept open at all times.

When ready to begin work, the Contractor shall mobilize Phase 1 as shown on the TTCP for Washington Street. Washington Street shall remain open to vehicular and pedestrian traffic throughout the duration of construction. Incidental site preparation work that does not affect the roadway or sidewalks may be performed prior to the mobilization of Phase 1. The Contractor shall alert the Town at least 14 calendar days prior to mobilizing Phase 1 and 7 calendar days prior to mobilizing subsequent phases. Work shall be complete and the normal traffic pattern restored no later than June 14, 2025.

TRAFFIC CONTROL

The Contractor will be required to implement all construction phases as shown in the Plans. Mobilization of construction phases and transitions between construction phases should be Coordinated with both the Town and Police Department.

TEMPORARY ACCESS TO ABUTTERS

The Contractor shall provide safe and ready means of ingress and egress to all driveways, businesses or residences in the project area, both day and night, for the duration of the project.

Full driveway access shall be maintained throughout the duration of construction for the following abutters.

- Brookside Café; 1260 Washington Street
- Endean Park/Hawes Pool; 1305 Washington Street
- Ding Doctor of Greater Boston/Carol's Auto Body; 1255 Washington Street
- Macchi & Macchi, LLC; 1256 Washington Street

PROTECTION OF UNDERGROUND FACILITIES

The Contractor's attention is directed to the necessity of making his own investigation in order to assure that no damage to existing structures, drainage lines, traffic signal conduits, etcetera, will occur.

The Contractor shall notify Massachusetts DIG SAFE and procure a Dig Safe Number for each location prior to disturbing existing ground in any way. Contact the Dig Safe Call Center by dialing 811 or 1-888-344-7233 or online at www.digsafe.com.

ARCHITECTURAL ACCESS BOARD TOLERANCES

The Contractor is hereby notified that they are ultimately responsible for constructing all project elements in strict compliance with the current AAB/ADA rules, regulations and standards. All construction elements in this project associated with sidewalks, walkways, wheelchair ramps and curb cuts are controlled by 521CMR - Rules and Regulations of the Architectural Access Board (AAB). The AAB Rules and Regulations specify maximum slopes and minimum dimensions required for construction acceptance. There is no tolerance allowed for slopes greater than the maximum slope nor for dimensions less than the minimum dimensions. Contractors shall establish grade elevations at all wheelchair ramp locations, and shall set transition lengths according to the appropriate table in the Construction Standards (or to the details shown on the plans). All wheelchair ramp joints and transition sections which define grade changes shall be formed, staked and checked prior to placing cement concrete. All grade changes are to be made at joints.

MATERIAL TESTING

The Contractor shall obtain the services of a qualified material testing company to provide in-situ compaction and other material testing (including cast-in-place concrete) as ordered by the Engineer. No separate payment will be made, and all costs associated with material testing shall be considered incidental to various contract items. All material testing shall be performed in accordance with the relevant MassDOT Specifications.

MOBILIZATION

The unit bid price for Mobilization (Item 748.) shall not exceed 3% of the contract bid total, exclusive of this item. Failure to observe this requirement could result in rejection of the bid.

EQUIVALENT POLICY

Any reference as to a specific type or manufacturer in these specifications is for identification purposes only. Equivalent products will be considered. In the event demonstrations or specifications on equivalent products are required, it will be at the vendor's expense. The Town of Norwood will have the sole discretion on whether or not a product is considered an equivalent.

PROPERTY BOUNDS

The Contractor shall exercise due care when working around all property bounds, which are to remain. Should any damage to a bound result from the actions of the Contractor, the bound shall be replaced and/or realigned by the Contractor as directed by the Engineer. No further compensation will be due to the Contractor for the materials and labor required to re-establish the bound in its proper position.

PRECAUTIONS FOR PROTECTION OF THE ENVIRONMENT

During the execution of work under this contract, the Contractor shall exercise care in the placement and storage of equipment, materials and debris as the site is in an environmentally sensitive area. No equipment, materials or debris can be placed or stored in or near a resource or drainage area leading to a resource as directed by the Engineer.

The Contractor shall neither stockpile material or equipment nor perform maintenance or refueling of equipment in a wetland area, within 100 feet of a wetland, or within 200 feet of a river, stream, pond, or drainage area leading to a resource or other similar open body of water.

The Contractor's attention is drawn to the Order of Conditions issued by the Norwood Conservation Commission. All conditions of the Order of Conditions shall be strictly adhered to, and all costs associated therein shall be considered incidental to the project.

NOTICE TO OWNERS OF UTILITIES

(Supplementing Subsection 7.13 of the MassDOT Standard Specifications)

Written notice shall be given by the Contractor to all public service corporations or municipal and State officials owning or having charge of publicly or privately owned utilities of his intention to commence operations affecting such utilities at least one week in advance of the commencement of such operations. The Contractor shall, at the same time, file a copy of such notice with the Town and the Engineer.

The Contractor's attention is further directed to the requirements of work in the immediate vicinity of certain underground structures and poles herein included in these Special Provisions.

A list of public and private utilities can be found on the MassDOT website at:

<https://hwy.massdot.state.ma.us/webapps/utilities/select.asp>

Select District 5 on top of the webpage, select the City/Town (NORWOOD), and then locate the utility.

The Contractor shall inform the following officials in each area that he assigned to work:

Superintendent, Department of Public Works or Town Engineer,
Superintendent, Water Department,
Superintendent, Sewer Department,
Police and Fire Department,
Electric Department

Town officials are shown at website <https://www.mass.gov/lists/massachusetts-city-and-town-websites> under:
Select "N" from the Table of Contents

Select "Norwood"

The official Municipality Home Page will load.

The following are the names of owners and representatives of the principal utilities in Town, but completeness of this list is not guaranteed by the Department. Not all utilities listed below will be impacted by this project:

Norwood Light (Electric) 206 Central Street Norwood, MA 02062	Dan Morrissey 781-762-3203
National Grid Gas 40 Sylvan Road Waltham, MA 02451	Melissa Owens 781-907-2845 Melissa.Owens@nationalgrid.com
Enbridge 8 Wilson Way Westwood, MA 02090	Kathy Aruda 508-938-7728 kathleen.aruda@enbridge.com
Verizon 385 Myles Standish Blvd. Taunton, MA 02780	Karen Mealey 508-828-6437 karen.m.mealey@verizon.com
Norwood DPW-Eng. (water) 1 Lyman Place Norwood, MA 02062	Mark Ryan 781-762-1420
MWRA (Water) 2 Griffin Way Chelsea, MA 02150	Ralph Francesconi 617-305-5827
Norwood DPW-Eng. (Sewer) 1 Lyman Place Norwood, MA 02062	Mark Ryan 781-762-1420
MWRA (Sewer) 2 Griffin Way Chelsea, MA 02150	Kevin McKenna 617-305-5827
Comcast Cable Corp. PO Box 6505 5 Omni Way Chelmsford, MA 01824	Wendy Brown 978-848-5163 Wendy_Brown@comcast.com
Crown Castle 80 Central Street Boxborough, MA 01719	Mark Bonanno 508-616-7818 mark.bonanno@crowncastle.com
Norwood Broadband 206 Central Street Norwood, MA 02062	Darryl Hanson 781-762-3203

Norwood Light (Fire Alarm) Jim Collins
206 Central Street 781-762-3203
Norwood, MA 02062

Century Link Renoy Thomas
1025 Eldorado Blvd 516-712-3041
Broomfield, CO 80021 CenturyLinkNationalOspRelations@centurylink.com

AT&T/Teleport Comm.
America Hayleigh Walker
50 Mall Road-Suite 203 781-221-8400
Burlington, MA 01803 Haleigh.Walker@sienaengineeringgroup.com

DESIGNER/PROJECT MANAGER

DESIGNER

TEC, Inc.

Andrew Spurr, P.E.

978-794-1792

The work under this item shall conform to the relevant provisions of Sections 771 and shall be for furnishing and installing temporary tree trunk protection and for minor limb pruning or removal of lower tree limbs to prevent injury to the tree from construction equipment and activities.

Trunk armoring is for instances where construction activity (the use of heavy equipment) comes close enough to potentially damage the tree trunk or limbs. It is to be used where shown on the plans and as directed by the Engineer.

MATERIALS

Trunk Armoring

Trunk armoring shall be such that it prevents damage to the trunk from construction equipment. Selected material shall be such that installation and removal will not damage the trunk.

Acceptable materials include 2x4 wood cladding with wire or metal strapping, or, for instances when the duration of construction activities is less than three months, corrugated plastic pipe mounted with duct tape. Height of cladding shall be from base of tree (including root flare) to the bottom of the first branch, eight feet above the ground, or as required by the Engineer. Material and methods shall be approved by the Engineer.

Temporary Protection Fence

Temporary Fence shall be such that it provides a minimum 48-inch tall barrier that remains vertical and effective (not sagging) for the duration of period required. Fence shall be plastic orange safety fence (recommended where high visibility is necessary), wooden snow fencing, or other approved material.

Per the Engineer, additional posts, deeper post depths, and/or additional attachments will be used if the fabric or fence sags, leans or otherwise shows signs of failing to create a sufficient barrier to access.

METHODS OF WORK

Prior to construction activities, the Engineer, the Contractor, and the Town shall review trees noted on the plans to be protected. Final decision as to trees armored and/or pruned shall be per the Engineer.

Care shall be taken to avoid damage to the bark during installation and removal of armoring. Trunk armoring shall be replaced and maintained such that it is effective for as long as required and shall be removed immediately upon completion of work activities adjacent to trees.

Pruning of limbs shall conform to the techniques and standards of the most recent ANSI A300 standards.

DAMAGES & PENALTIES

If trees designated for protection under this item are damaged, including root damage from unapproved trespassing onto the root zone, the Contractor shall, at his own expense obtain an Arborist. The Arborist shall be approved by the Engineer and the Town.

If, based on the recommendations of the Arborist, the Engineer determines that damages can be remedied by corrective measures, such as repairing trunk or limb injury, soil compaction remediation, pruning, and/or watering, the damage will be repaired as soon as possible within the appropriate season for such work and according to industry standards.

ITEM 102.511 (CONTINUED)

If the Engineer determines that damages are irreparable, the Contractor shall pay for the damages in the amount of \$500.00 per diameter inch at breast height (DBH) per tree.

Additionally, if the Engineer determines that the damages are such that the tree is sufficiently compromised as to pose a future safety hazard, the tree shall be removed. Tree removal will include cleanup of all wood parts, grinding of the stump to a depth sufficient to plant a replacement tree or plant, removal of all chips from the stump site, and filling the resulting hole with topsoil.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Item 102.511 will be measured and paid at the contract unit price per each. This will include full compensation for all labor, equipment, materials, protection fencing and incidentals for the satisfactory completion of the work and the subsequent removal and satisfactory disposal of the protective materials upon completion of the contract.

In the event of tree damage, cost of Arborist services, of remediation measures, and/or tree removal will be borne by the Contractor.

In the event of irreparable damage due to lack of proper protective measures being taken there will be no compensation in addition to the \$500.00 per diameter inch penalty.

ITEM 106.303**CLEAN (FULL REMOVAL) AND PAINT STEEL RAILINGS****LUMP SUM**

The work under these Items shall conform to the relevant requirements in Subsection 960.63 and to 961, "Maintenance Painting of Steel Bridges" of the Standard Specifications, and the following:

This work shall consist of cleaning and painting all parts of the existing steel bridge railings, which shall include the base plates, posts, rails, bolts, nuts, etc. The bridge railings shall remain in place during the duration of painting.

This item also includes environmental protection, containment of work areas, and waste disposal in accordance with the Standard Specifications.

CONSTRUCTION METHODS**Structural Steel Inspection**

The Contractor shall notify the Engineer if a significant amount of section loss is found on the guardrails during the cleaning and blasting process. If requested by the Engineer, the Contractor shall provide the access and time window to the Engineer to inspect and document the structural steel section loss after the cleaning and blasting operation.

LIMITS OF WORK

Area: Steel bridge railings (East & West)

Surface Preparation: Full Removal

Paint Application: 3-Coat System; Full prime, intermediate and finish coat. Materials shall be accepted by the Northeast Protective Coating Committee (NEPCOAT)

Paint Color: Contractor shall coordinate finish paint color with the Town. Contractor shall provide paint chips/samples to the Town to assist in color determination.

BASIS OF PAYMENT

Items 106.303 will be paid for at the contract Lump Sum price, which shall include all labor, materials and equipment required to complete the work to the satisfaction of the Engineer. Partial payments of the lump sum will be made in accordance with Section 961.80 of the Standard Specifications.

Incidental to these items are all costs associated with the design, installation, and final removal of the required containment system/work platform. All costs associated with the safe removal and disposal of accumulated pigeon waste and other toxic contaminants are incidental to these items and no additional compensation will be made.

SPECIAL NOTES REGARDING PREVAILING WAGE REQUIREMENTS

Note that the erection and dismantling of scaffolding, rigging, and containment for bridge painting work is subject to the "Painter (Bridges/Tanks)" prevailing wage rate. This includes surface preparation, including removal of all types of paint on bridges, the application of paint, and the clean-up of debris resulting from paint removal operation on bridges, pursuant to the determination by the Massachusetts Department of Labor Standards' 12/23/2009 "Notice Concerning the Removal and Application of Paint on Bridges and Tanks."

ITEM 106.9**JOINT FILLER COMPOUND****FOOT**

The work under this item shall conform to the relevant requirements of Subsections 476, 901, and M9.14.3 of the Standard Specifications and the following:

The work to be done under this item consists of sealing the longitudinal and transverse sidewalk joints between the exterior adjacent deck beams and sealing the UHPC overlay joint at the curb line. The shape, width and depth of the joints shall be as shown on the Plans.

Prior to the placement of the new sidewalk surface and new joint filler material, the Contractor shall remove all existing deteriorated/crumbling joint filler material. Removal of the existing sidewalk joint filler shall be considered incidental to this item.

MATERIALS

The Contractor shall supply a joint filler that meets the requirements of M9.14.3 of the Standard Specifications and is specified for use in concrete expansion joints. The Contractor shall use one of the joint fillers listed below unless otherwise approved by the Engineer. Regardless of material proposed for use, the Contractor shall submit the proposed joint material to the Engineer for review and approval.

- Sikaflex-1A; manufactured by Sika Corporation
- Dymonic 100; manufactured by Tremco

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Item 106.9 will be measured for payment by the foot accepted by the Engineer, complete in place.

Item 106.9 will be paid for at the Contract unit price per foot, which price shall include all labor, materials, equipment, and incidental costs required to complete the work.

The work under this item shall include the excavation and removal of deteriorated concrete for full and partial depth repairs to the prestressed adjacent deck beam superstructure and resurfacing of the prestressed concrete sidewalk beams as shown on the Plans and as directed by the Engineer.

This item shall also include the removal and satisfactory disposal of all existing grout from between the adjacent deck beams to facilitate the proposed shear key repairs as shown on the Plans.

Prior to beginning excavation, the Contractor shall install a protective shielding system to prevent excavated concrete, debris, or other materials from entering Hawes Brook. This will be paid for under Item 994.1 – Temporary Protective Shielding.

The Town of Norwood does not guarantee that the existing bridge materials and/or limits of existing deterioration will actually coincide with any descriptions contained herein or represented on plans. The limits of excavation included under this Item shall be field verified by the Engineer prior to beginning excavation. No payment will be provided for excavated areas that have not been verified by the Engineer.

METHODS

Inspection of the Concrete Surfaces

The Contractor will perform independent investigations to mark out the areas of deteriorated concrete to be repaired. Methods for evaluation shall include non-destructive methods such as visual observations and hammer sounding (or similar). Upon excavation of the existing wearing surface, the Contractor may, if practicable, utilize the chain drag method to sound the top surface of the beams. The Contractor is referenced to ACI Report 201.1R-92 "Guide for Making a Condition Survey of Concrete in Service" and ACI Report 364.1R-94 "Guide for Evaluation of Concrete Structures Prior to Rehabilitation" regarding evaluation methods. Costs associated for providing all tools, equipment, access, materials and personnel for sounding to determine limits of reinforced concrete excavation are incidental to this item with no additional compensation. ASTM D4580-03 "Standard Practice for Measuring Delaminations in Concrete Bridge Decks by Sounding" shall be followed.

Before any existing concrete is removed, the Contractor will provide the Engineer clear access to the areas designated for repair. During this time, the Engineer will perform an inspection of the areas and will approve and/or designate the areas where concrete removal and repair will be required. It shall be the responsibility of the Contractor to give at least five (5) days prior notice to the Engineer of the date that a structure will be available for inspection.

Removal of Deteriorated Concrete

All deteriorated concrete designated for removal under this item shall be removed within the limits shown on the Plans and as directed by the Engineer. The lateral limits of each area to be repaired will be delineated by the Contractor and suitably marked and subsequently approved by the Engineer. Where several areas to be repaired are very close together, the Engineer may combine these individual repairs into a larger area. The outlines of each such area shall first be cut to a depth of 3/4 inch with an approved power-saw capable of making straight cuts. Patch areas shall be made rectangular in shape [as much as possible], with horizontal and vertical edges and square corners. In the event that reinforcing steel is encountered within the outer 3/4 inch depth during sawing operations, the depth of sawcut shall immediately be adjusted to a shallower depth so as not to damage the steel bars. If directed by the Engineer, saw cutting shall again be carried down to the 3/4 inch depth at other locations of repair provided reinforcing steel is not again encountered. Where over-breakage occurs resulting in a featheredge, the featheredge shall be squared up to a vertical edge in an approved manner. Where sawing is impractical, the area shall be outlined by chisel or other approved means.

ITEM 127.1 (CONTINUED)

Surface preparation and concrete removal equipment shall be of the following types:

Pneumatic and Power-Driven Chipping Hammers: The Contractor will be restricted to fifteen (15) pound chipping hammers when work involves repairs to prestressed concrete adjacent deck beams, or when removing concrete from below any reinforcing bar.

Abrasive Blasting Equipment: Abrasive blasting equipment shall be capable of removing rust and old concrete from exposed reinforcing steel as well as old shear key grout.

During the prosecution of this work, the Engineer may reject the use of any method or equipment which causes undue vibration or possible damage to the structure or any part thereof.

Bobcats/Skid Steers will be allowed only to collect debris from the deck surface and will not be allowed to remove concrete from the patch area. All concrete debris shall be removed by hand or by using hand tools. The smaller pieces may be blown out using oil free compressed air after first being wetted with water to control airborne particulates.

The minimum depth of concrete removal shall not be less than the specified minimum thickness of repair material as specified by the manufacturer recommendations.

The Contractor shall be responsible for selecting construction methods that facilitate retaining any existing reinforcing steel scheduled to remain as specified on the Plans. Any sound reinforcing steel or prestressing steel strands scheduled to remain that are damaged by the Contractor shall be replaced in kind at the Contractor's expense. New reinforcing bars shall be lapped to the existing reinforcing bars with a minimum lap splice length as indicated on the Plans, or as directed by the Engineer.

The Contractor shall take care not to expose prestressing strands during excavation. Existing strands that are exposed and/or corroded unrelated to the Contractor's activities shall be cleaned and painted with epoxy conforming to AASHTO M235 Type II, Grade 2, Class B or C. This work shall be incidental to Item 910.1 Steel Reinforcement for Structures – Epoxy Coated. Contractor shall notify the Engineer prior to performing any additional work on existing prestressing strands.

Where the existing reinforcing steel is damaged or deteriorated unrelated to the Contractor's activities, it shall be supplemented with new reinforcing steel of the same size paid under Item 910.1 Steel Reinforcement for Structures – Epoxy Coated. Pneumatic tools shall not be placed in direct contact with reinforcing steel.

Surface Preparation

Immediately before preparation for placement of new concrete, the exposed areas of concrete shall be abrasively blast cleaned in order to remove all rust, oil and debris that is not tightly adhered, followed by the application of compressed air to remove all dust. The existing concrete surface shall be intentionally roughened prior to the placement of concrete. Unless otherwise specified, areas to be repaired shall be patched with a Self-Consolidating Repair Mortar in compliance with Item 909.41.

After removals and edge conditioning are complete, remove bond inhibiting materials (dirt, grease, loosely bonded aggregate). Check the concrete surfaces after cleaning to ensure that surface is free from additional loose aggregate or additional delamination.

ITEM 127.1 (CONTINUED)

SUBMITTALS

Prior to the commencement of any work under this item, the Contractor shall submit to the Engineer for review and approval a detailed work plan indicating his/her proposed demolition procedures and methods to be used. The work plan shall include at a minimum equipment, tools, devices, methods of removal, schedule of operations, provisions to be made for the protection of bridge components to remain, etc., to the Engineer for approval.

The Contractor shall take all measures necessary to protect pedestrian and vehicular traffic from the construction operations. No debris, tools or incidental equipment of any kind will be permitted to fall into areas used for vehicular and pedestrian traffic. Any material that accidentally falls into such areas shall be removed immediately.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Item 127.1 will be measured for payment by the cubic yard of concrete removed and disposed from limits approved by the Engineer.

Item 127.1 will be paid for at the Contract unit price per cubic yard, which price shall include all labor, materials, equipment, final disposal of the excavated material, and incidental costs required to complete the work.

ITEM 129.6**BRIDGE PAVEMENT EXCAVATION****SQUARE YARD**

This work under this item shall include removing existing pavement and membrane waterproofing within the limits of the bridge structure, and as directed by the Engineer. The removed material shall become the property of the Contractor.

The existing pavement shall be removed through its full depth to the top surface of the existing concrete deck beams. Care shall be taken to prevent any damage to the existing concrete beams. Any damage resulting from the Contractor's methods shall be repaired at the Contractor's expense, as directed by the Engineer.

All other pavement removed as part of the project will be paid for under Item 415.2 – Pavement Fine Milling

METHODS

The pavement shall be excavated using wide-blade pneumatic hammers or other approved methods. The “COLD-PLANER” method will not be allowed.

The pavement shall be excavated in accordance with the proposed phasing plan to maintain two lanes of traffic during construction.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Item 129.6 will be measured for payment by the square yard of pavement removed and disposed from the limits shown on the plans. All existing membrane waterproofing shall be removed from the same area of pavement removal with no additional measurement.

Item 129.6 will be paid for at the Contract unit price per square yard, which price shall include all labor, materials, equipment, and incidental costs required to complete the work.

The work under this item shall conform to the relevant provisions of Subsection 476 of the Standard Specifications and the following:

The work under this item consists of field casting a uniform Ultra High-Performance Concrete (UHPC) Overlay on top of the existing deck beams. This shall include batching, transportation, forming, surface preparation, pouring, finishing, curing and all other work related to placing the overlay.

The contractor and the UHPC manufacturer shall furnish all materials, storage, handling, tools, equipment, labor and other incidentals required to complete the work. All testing shall be performed by an independent, NETTCP certified testing company provided and paid for by the contractor. Work associated with the UHPC Overlay shall be performed in accordance with the manufacturer's recommendations.

The Contractor shall be experienced in this type of work and present proof of such experience by providing written documentation listing several projects (minimum of 3) on which an ultra high-performance concrete overlay was satisfactorily placed under his/her supervision.

MATERIALS

The material for the UHPC Overlay shall be Ductal Overlay UHPC supplied by Lafarge Holcim or approved equivalent. All components shall be supplied by one manufacturer.

The Contractor shall ensure that the UHPC Overlay is a thixotropic, ultra high-performance, low permeability composite material with the manufacturer's recommended steel fibers and appropriate for use as a thin UHPC Overlay. Provide material as follows. All materials in items (1) and (2) below shall be preblended and proportioned in bags or supersacks and come from the same batch or lot unless approved by the Engineer.

1. Fine aggregate
2. Cementitious Material
3. Steel fibers – The Contractor shall provide steel fibers in accordance with ASTM A820, Type 1, cold drawn high-carbon steel with a minimum tensile strength of 200 ksi. Provide fiber geometry. Ensure fiber content is at least 3.0% of the mix's dry volume.
4. Water – water may be substituted with ice as required to decrease mix temperature in accordance with the UHPC manufacturer's recommendations. Water shall meet the requirements of M4.02.0.
5. Admixtures – Only as specified by the UHPC manufacturer.

The material shall be proportioned based on the manufacturer's recommendations for UHPC overlays and to meet the following properties at 28 days after casting unless otherwise noted in the Contract Documents.

Table 1 – UHPC Material Properties		
Description	Test Method	Acceptance Criteria
Compressive Strength (2 Day)	ASTM C39*	≥ 12 ksi
Compressive Strength (28 Days)	ASTM C39*	≥ 18 ksi
Long term Shrinkage (28 Days)	AASHTO C157*	≤ 800 microstrain
Freeze-Thaw Resistance (300 Cycles)	ASTM C666A*	Relative Dynamic Modulus of Elasticity > 98%
Chloride Ion Permeability	AASHTO T277 / ASTM C1202	≤250 coulombs (w/o steel fibers)
Alkali-Silica Reaction	ASTM C1567	Innocuous
Water/Binder Ratio		≤ 0.28

*As modified by ASTM C1856

ITEM 476.36 (CONTINUED)

The contractor shall apply low High Molecular Weight Methacrylate (HMWM) to unacceptable cracks prior to placement of the asphalt wearing surface. HMWM shall be compatible with any UHPC Overlay Material to be used on the same surfaces.

SUBMITTALS

Manufacturer's Product Data

A minimum of 14 calendar days prior to the trial batch testing, the Contractor shall submit the UHPC mix design data demonstrating compliance with the material requirements. The mix design shall specify the separate components that are not pre-blended and are only added together during the mixing process. The design shall specify the proportion of each of these materials.

Quality Control Plan

A minimum of 14 calendar days prior to the trial batch testing, the Contractor shall submit a Quality Control Plan, which follows MassDOT's Model QC Plan template. The Quality Control Plan must be approved by the Engineer prior to the placement of the overlay.

Trial Batch Test Results

A minimum of 7 calendar days prior to placement of the UHPC overlay, the Contractor shall submit their results for all required tests from the trial batch.

Construction Procedures

A minimum of 14 calendar days prior to the trial batch testing, and 30 calendar days prior to placing the UHPC overlay, the Contractor shall submit construction procedures to the Engineer for approval. The Construction procedures shall include, but may not be limited to:

- The trial batch testing procedures – materials, equipment, and procedures, including forming and placement details, casting, testing and storing cylinders.
- The overlay placement procedure – materials, equipment, and procedures for the overlay production and the casting of the test cylinders. The information on curing the overlay, including Hot and Cold Weather Conditions, and the cylinders shall be included here, as well.

All submittals shall be in English units.

TESTING EQUIPMENT

The Contractor shall furnish all necessary testing equipment at the site for trial batch testing and for the production testing.

- A mini-slump cone and other equipment needed to meet the requirements of ASTM C230 and ASTM C1437.
- Concrete thermometer meeting the requirements of AASHTO T309.
- 3-inch diameter by 6-inch-tall cylinder molds for making samples for compressive strength testing in accordance with ASTM C39 with C1856 modifications.
- Only for trial batch testing, all equipment and molds necessary to fabricate samples for AASHTO T160, T161, T259, T277, and ASTM C1260 tests.
- Curing boxes to store standard cured cylinders in a humidity and temperature control environment as recommended by the Manufacturer prior to testing.

ITEM 476.36 (CONTINUED)

TRIAL BATCH TESTING

A minimum of 14 calendar days prior to the production pour, trial batch testing shall be performed. The trial batch shall take place at a location approved by the Engineer and be performed in the presence of the Engineer. It shall be representative of the production overlay and shall consist of the same materials, equipment, methods of mixing, and cylinder preparation and curing methods.

Trial batch samples will be tested to verify that the material meets all required UHPC physical properties found in this specification. The quantity of material batched shall be sufficient to perform all required tests specified. The mix design and Quality Control Plan listed under SUBMITTALS shall be submitted prior to scheduling the trial batch.

UHPC batch temperatures shall be recommended by the Manufacturer and shall be representative of the proposed batch temperatures required for the production pours. The temperature shall be recorded.

The Quality Control sampling and testing shall be performed by currently certified NETTCP Concrete Technicians provided and paid for by the Contractor. All materials, testing equipment, mixers, etc. shall be supplied by the Contractor/Manufacturer. In addition, testing of hardened UHPC (compression, chloride ion penetrability, freeze-thaw, and shrinkage) shall be performed by the NETTCP Concrete Technician, at an AASHTO Accredited laboratory in accordance with these Special Provisions and the Manufacturer's recommendations.

For the compressive testing, the test days shall be at 2 days, 7 days, and 28 days. Four (4) - 3 inch diameter by 6 inch cylinders shall be used for each test day for a total of 12 cylinders. Cylinders tested at 2 days shall be field cured in the same environment as the anticipated overlay material during production. The temperature during field curing shall be within the proposed temperature range for curing in the field or as recommended by the Manufacturer. The cylinders for the remaining 7 and 28 day tests shall be standard cured in accordance with MassDOT Standard Specifications. Production pours shall be permitted to occur prior to the 28 day testing, so long as the 2 and 7 day tests are within acceptable ranges, as determined by the Engineer and manufacturer recommendations.

The UHPC project mix shall be approved based on the trial batch testing. All trial batch test results shall meet the criteria listed in Table 1. Trial batch testing shall continue at the Contractor's expense until all test results meet the requirements herein or as otherwise approved by the Engineer. All test results shall be submitted promptly to the Engineer prior to the production pour. The production pour shall not begin until the UHPC project mix is approved by the Engineer.

PRE-PLACEMENT MEETING

Prior to the placement of the UHPC, the Contractor shall arrange for an on-site meeting. The Contractor's staff, UHPC Manufacturer's representative, Town Engineer, and the Design Engineer shall attend the site meeting. The objective of the meeting is to clearly outline the procedures for batching, mixing, transporting, placing, finishing, curing, and testing of the UHPC material.

SURFACE PREPARATION

Prior to placement of the UHPC Overlay, the Contractor shall remove all existing bridge pavement and membrane waterproofing and ensure that the substrate is roughened to provide a surface with a minimum average textured height of 0.125 inches. As part of the submittal process, the Contractor shall clarify their means and methods to perform surface roughening. Costs of any damage to the structure or any part thereof caused by surface roughening shall be borne by the Contractor. Bridge pavement and membrane waterproofing removal shall be paid for under Item 129.6 – Bridge Pavement Excavation.

ITEM 476.36 (CONTINUED)

Upon removal of bridge pavement and waterproofing membrane, the Contractor shall perform a topside inspection of the prestressed adjacent deck beams and mark out repair areas for approval by the Engineer. Contractor shall repair any remaining unsound areas in accordance with the Plans and Specifications to ensure the UHPC overlay is placed on sound and level concrete. These repairs shall be performed prior to placement of the overlay using a Self-Consolidating Mortar complying with Item 909.41.

The Contractor shall keep the top surface of the beams wet with clean water for at least eight (8) hours prior to placing the UHPC Overlay and allowed to dry to a saturated surface dry (SSD) condition just prior to placing the UHPC Overlay.

FORMWORK, BATCHING, MIXING, PLACEMENT AND CURING

Formwork

The Contractor shall design and fabricate formwork, if required, to adhere to the Specifications and the UHPC manufacturer's recommendations. Forms shall be constructed from nonabsorbent material that are properly sealed and capable of resisting the hydrostatic pressures from UHPC in an unhardened state.

Storage

The Contractor shall deliver Materials in undamaged packaging to the batch site. The Contractor shall provide for the proper storage of premix, fibers and additives as required by the manufacturer's recommendations in order to protect the Materials against loss of physical and mechanical properties.

Mixing

The Contractor shall provide adequate mixers to ensure a continuous supply of UHPC. The UHPC manufacturer shall review and approve the mixing equipment. The temperature of the UHPC shall be kept below 80 degrees F or the recommendation of the UHPC manufacturer during mixing. Ice may be added to the mix as recommended by the UHPC manufacturer's representative.

Placement

The Contractor shall follow the mixing and batching procedures as recommended by the manufacturer. The Contractor shall pour the UHPC Overlay as shown on the Plans and in accordance with the manufacturer's recommendations. The UHPC Overlay shall be poured in three (3) placements. Each placement shall be continuous and poured to a uniform thickness of 1½".

There shall be two (2) longitudinal construction joints/cold joints located at the interface between Construction Phase 1 and 2 and Construction Phase 2 and 3. Transverse joints are not allowed. UHPC overlay shall be placed and finished using a combination of spreading, consolidating and finishing machine specifically designed and constructed for placing UHPC overlays.

While the concrete is still plastic, surface depressions shall be filled with UHPC of the same class as the overlay. Patch material other than the UHPC shall not be used to fill depressions and/or voids in the overlay.

ITEM 476.36 (CONTINUED)

Curing

The Contractor shall cure the UHPC Overlay placed in accordance with the manufacturer's recommendations to attain the required strength specified herein. This shall include, but may not be limited to, covering the surface of the freshly placed UHPC Overlay with curing compound and plastic sheeting to protect it from the weather and debris, and regulate the hydration process. The Contractor shall cure the UHPC Overlay at the range of temperatures specified by the manufacturer's recommendations in order to achieve required strengths at the specified timeframes.

The UHPC Overlay shall not be subjected to freezing temperatures until it has cured for at least two (2) Days and has attained 12,000 psi compressive strength. The Contractor shall not use heat sources that apply forced air to the exposed surface of the UHPC Overlay.

Traffic or other loading will not be permitted directly on the UHPC overlay until the UHPC achieves a minimum compressive strength of 12,000 psi (based upon field-cured test cylinders), unless otherwise approved by the Engineer.

A UHPC Overlay placement shall cure for at least 24 hours and achieve a 12,000 psi compressive strength before surface profiling and paving can occur.

Construction Joints

Construction joints will only be allowed at Construction Phase lines to facilitate placements of UHPC overlay. Additional construction joints in the overlay will not be allowed without the approval of the Engineer. Any additional construction joints installed for the Contractor's convenience or means and methods will not be the basis for additional payment or extension of time.

ACCEPTANCE TESTING AND QUALITY CONTROL

All testing shall be performed by certified NETTCP Concrete Technicians. Manufacturer's representative(s) shall be present during all testing and casting of the cylinders to ensure correct casting and shall be present to evaluate each UHPC overlay placement in terms of consistency, composition, flow and placement, environmental conditions and concrete temperature.

The quality control sampling, casting, curing and testing shall be performed by independent NETTCP Certified Technicians provided and paid for by the Contractor.

Material testing shall be consistent for the trial batch and for each production pour of UHPC overlay unless otherwise noted or recommended by the manufacturer. The Contractor shall record all test results and submit them to the Engineer.

The Contractor shall measure the slump flow on each batch of UHPC Overlay in accordance with ASTM C1437 with C1856 modifications. An acceptable static slump flow range between four (4) and six (6) inches and an acceptable dynamic slump flow range between six (6) and eight (8) inches is required, unless approved otherwise by the manufacturer's representative(s).

The Contractor shall cast compressive strength test cylinders in accordance with ASTM C1856/C1856M. The Contractor shall field cure cylinders with the UHPC Overlay and test for compressive strength in accordance with ASTM C1856/C1856M. The test Days shall be at 2-Days, 7-Days and 28-Days. A minimum of four (4) 3 inch diameter by 6 inch cylinders for each test Day for a total of 12 cylinders for each series of tests are required. The Contractor shall cast one (1) set of cylinders for each testing series. The Contractor's production pour test cylinders shall be used for the 2-Day tests and shall be field cured in the same environment as the UHPC Overlay Material they represent. The cylinders for the remaining 7-Day and 28-Day tests shall be standard cured in accordance with ASTM C1856/C1856M Section 7.3.

ITEM 476.36 (CONTINUED)

The Contractor is responsible for providing an adequate location to place acceptance specimens for initial curing prior to transport to the lab. Quality Control cylinders shall be tested by an NETTCP Certified Technician at an AASHTO Accredited laboratory. The Contractor shall provide a copy of the test results to the Engineer. Testing is summarized in Table 2. More tests may be required than described in the table at the discretion of the Engineer.

The entire UHPC Overlay shall be fully bonded to the substrate concrete. Evidence of lack of bond between the UHPC and the concrete will require replacement of the UHPC at no cost to the Town. The Town and Engineer reserves the right to sound or request non-destructive testing to verify the adequacy of work.

Description	Test Method	Acceptance Criteria	Quantity of Tests
Compressive Strength (2 Day)	ASTM C39*	≥ 12 ksi	1 Set of 4 samples for each placement (3 placements)
Compressive Strength (7 Days)	ASTM C39*	For Information Only	
Compressive Strength (28 Days)	ASTM C39*	For Information Only	
Slump Flow	ASTM 1437	Acceptable range per Manufacturer’s recommendation. No bleed water; consistent fiber distribution	1 per batch

*As modified by ASTM C1856

If the UHPC does not meet the requirements as described herein, the Contractor will remove and replace or remediate the UHPC to the satisfaction of the Engineer at the Contractor’s expense. Repair all forms of cracking, voids, or other anomalies in the surface even if the repair is an aesthetic repair.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Item 476.36 shall be measured by the square foot of UHPC overlay installed, complete in place, and accepted by the Engineer.

Item 476.36 will be paid at Contract Unit Price per square foot, which price shall be the full payment for all labor, equipment, material, labor, trial batching, Quality Control, and all other incidentals necessary to perform the work.

The work to be done under this Item consists of making a sealed kerf across the full width of the finished asphalt pavement at bridge abutments and at the limits of mill & overlay where called for on the Plans. The shape, width, and depth of the kerf shall be as shown on the Plans.

Prior to the start of the asphalt pavement operation, the Contractor shall place a mark on each curb or barrier on either side of the paved roadway. These marks shall be aligned with the actual end of the bridge deck and shall be placed so that they will not be covered or otherwise obscured by the asphalt pavement.

After the completion of the paving operation, the Contractor shall snap a straight chalk line on the pavement between these two marks. The Contractor shall then sawcut the pavement along this line to the depth, width and shape as shown on the Plans. The equipment shall be approved by the Engineer prior to commencing work. The Contractor shall submit the proposed joint material to the Engineer for review and approval.

After completing the saw cutting, the Contractor shall clean the saw groove of any dust and debris with an oil free air blast. If the groove was wet sawn, the groove shall be cleaned with a water blast to remove any remaining slurry and debris, vacuumed with a Wet-or-Dry vacuum to remove any standing water, and then dried with an air blast from a Hot-Air-Lance.

Once the groove is clean and dry, the Contractor shall fill it completely with a hot-applied bituminous crack sealer meeting the requirements of M3.05.4 in accordance with the manufacturer's application instructions and restrictions regarding ambient and material temperatures. The crack sealer shall be thoroughly cured prior to opening the road to traffic. To reduce tackiness, only boiler slag aggregate (black beauty) shall be scattered over the sealer when required by the Engineer. Conventional sand shall not be used for this purpose.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Item 482.31 will be measured for payment by the Foot, of the actual number of feet of kerf sawed and sealed in the asphalt pavement surface, complete in place.

Item 482.31 will be paid for at the Contract unit price per Foot, which price shall include all labor, tools, equipment, and incidental costs required to complete the work.

ITEM 697.1**SILT SACK****EACH**

Work under this item shall conform to the relevant provisions of Section 670 of the Standard Specifications and the following:

The work includes the furnishing, installation, maintenance and removal of a reusable fabric sack to be installed in drainage structures for the protection of wetlands and other resource areas and the prevention of silt and sediment from the construction site from entering the storm water collection system. Devices shall be sourced from ACF Environmental (800)-448-3636; Reed & Graham, Inc. Geosynthetics (888)-381-0800; The BMP Store (800)-644-9223; or approved equal.

CONSTRUCTION

Silt sacks shall be installed in retained existing and proposed catch basins within the project limits and as required by the Engineer.

The silt sack shall be manufactured to fit the opening of the drainage structure under regular flow conditions and shall be mounted under the grate. The insert shall be secured from the surface such that the grate can be removed without the insert discharging into the structure. The filter material shall be installed and maintained in accordance with the manufacturer's written literature and as required by the Engineer.

Silt sacks shall remain in place until the placement of the surface course and the graded areas have become permanently stabilized by vegetative growth. All materials used for the filter fabric shall become the property of the Contractor and shall be removed from the site.

The Contractor shall inspect the condition of silt sacks after each rainstorm and during major rain events. Silt sacks shall be cleaned periodically to remove and dispose of accumulated debris as required. Silt sacks, which become damaged during construction operations, shall be repaired or replaced immediately at no additional cost to the Town.

When emptying the silt sack, the Contractor shall take all due care to prevent sediment from entering the structure. Any silt or other debris found in the drainage system at the end of construction shall be removed at the Contractor's expense. The silt and sediment from the silt sack shall be legally disposed of off-site. Under no circumstances shall silt and sediment from the insert be deposited on site and used in construction.

All curb openings shall be blocked to prevent stormwater from bypassing the device. All debris accumulated in silt sacks shall be handled and disposed of as approved by the Engineer.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Item 697.1 will be measured and paid at the Contract unit price per each which price shall include all labor, materials, equipment and incidental costs required to complete the work.

No separate payment will be made for removal and disposal of the sediment from the insert, regardless of the frequency of removal and disposal, but all costs in connection therewith shall be included in the Contract unit price bid.

The work under this item shall conform to the relevant provisions of Section 670 of the Standard Specifications and the following:

This work under this item shall include installation, maintenance, and removal of a temporary floating silt fence to prevent any sediment disturbed during construction from reaching adjacent waterways and further dispersing.

MATERIALS

Floating silt fence shall be made of a woven polypropylene with a minimum 200 lb. tensile strength. The Contractor shall submit to the Engineer, for review and approval, product specifications and technical data provided by the manufacturer, prior to installation. The fence shall be continuously weighted at the bottom to maintain a vertical submerged position. Anchors shall be placed at both ends of the curtain and at intermediate locations, as necessary, to hold the fence securely in place. The fence shall be installed to withstand the forces of the flow of the waterway.

METHODS

Floating silt fence shall be installed before construction begins and earth is disturbed. Silt fences shall be inspected and approved by the Norwood Conservation Commission Agents after installation and prior to commencement of further construction activities.

The Contractor shall inspect the silt fence at least weekly to ensure continuous effectiveness. The fence shall be maintained for effective performance at all times. If any fence becomes damaged or dislodged, construction activities shall be halted until all deficiencies are corrected by the Contractor with no additional compensation. The floating silt fence shall be removed after all construction activities are completed and in such a way that no collected sediment is dispersed into waterways.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Item 697.2 will be measured and paid at the Contract unit price per FOOT of fence installed, completed in place, within the specified limits as directed by the Engineer, which price shall include all labor, materials, equipment, and incidental costs required to complete the work.

No separate payment will be made for any adjustments or repairs that may be required to provide a floating silt fence that is continuously effective for the duration of construction.

No separate payment will be made for the removal of the floating silt fence.

ITEM 706.1**BRICK WALK REMOVED AND RELAID****SQUARE YARD**

The work under this item shall conform to the relevant provisions of Sections 150, 170, and 700 of the Standard Specifications and the following:

Work includes removing and resetting existing brick, if necessary, between the existing approach sidewalks and granite curb to perform concrete sidewalk resurfacing over the bridge. The work shall also include careful removal and stacking of existing excess bricks on the adjacent property, if desired by the property owner; exact location on the property shall be in coordination with the property owner, as approved by the Engineer.

Relaid walks shall use the existing brick that has been removed. Should some of the existing brick become damaged or unusable to be relaid, the Contractor shall replace them with brick of similar size, type and color. The Contractor shall provide a sample of new brick to be supplied for approval by the Engineer prior to installation. New and reset brick shall be installed in a pattern consistent with the existing adjacent walk (i.e., running bond, basket weave, stringer course, etc.).

If necessary, the Contractor shall rehabilitate the subgrade to reset settled or buried brick as shown on the Plans and as directed by the Engineer. Any steel edging, bituminous setting beds, subgrade material such as sand borrow or gravel borrow used to reset brick shall be considered incidental to this Item.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Item 706.1 will be measured and paid for at the Contract unit price per square yard installed, complete in place, which price shall include all labor, materials, equipment, and incidental costs required to complete the work.

No separate payment will be made for grading and compacting of the gravel base and sand setting bed, for steel edging, polymeric sand joint treatment, or replacement of damaged brick but all costs in connection therewith shall be included in the Contract unit price bid for the respective item.

The work under this item shall conform to the relevant provisions of Subsection 850 of the Standard Specifications and shall consist of furnishing, installing, maintaining and final removal of limited deflection TL-3 temporary barrier systems for channelization of traffic and/or work zone protection. Limited deflection temporary barrier systems shall have a maximum dynamic deflection of 24 inches or less and shall be used in areas where the available clear area behind the barrier system is 24 inches or less.

The Contractor shall use a temporary barrier system that is listed on the MassDOT Qualified Traffic Control Equipment List (QTCE).

The Contractor may submit alternate materials to the Engineer for approval if the limited deflection temporary barrier system meets the following criteria:

1. The system has been tested by an independent laboratory that is accredited by FHWA to crash test roadside hardware;
2. The system meets the minimum requirements of the AASHTO *Manual on Assessing Safety Hardware* (MASH) at Test Level (TL) 3 or higher; and
3. The system has a federal-aid eligibility letter from FHWA.

Copies of the testing results and the federal-aid eligibility letter shall be submitted and approved by the Engineer prior to procurement of an alternate temporary barrier system.

The Contractor shall supply shop drawings to confirm the available clear area behind the barrier equals or exceeds the maximum dynamic deflection of MASH Test 3-11 during testing procedures taken at an independent laboratory that is accredited by FHWA to crash test roadside hardware.

Delineators shall be installed on all limited deflection temporary barrier systems in conformance with the relevant provisions of Subsection 850.69 and shall be incidental to the temporary barrier systems.

Temporary impact attenuators that are listed on the Qualified Traffic Control Equipment List shall be used whenever a blunt end of the limited deflection temporary barrier system is facing traffic within the clear zone unless it is protected by a second barrier system or secured to a separate barrier system or bridge railing by a method approved by the manufacturer.

CONSTRUCTION METHODS

Limited deflection temporary barrier systems shall be placed in line with the drawings. Installation shall be per the manufacturer's specifications, details, and the approved shop drawings.

The Contractor shall not place any breaks in the limited deflection temporary barrier system that will result in sections that are shorter than the stated minimum length-of-need (LON) under MASH Test 3-11. Exceptions shall be allowed for gate systems or changeable length segments placed over expansion joints if those barrier segment types have been tested and meet the minimum requirements of MASH Test 3-11 with the adjoining limited deflection barrier system.

Within the LON section, limited deflection temporary barrier systems shall only be placed on paved surfaces unless otherwise tested and certified under MASH TL-3 for those conditions. Damage to the pavement surface caused by the limited deflection temporary barrier during installation while in service and/or during removal shall be repaired as directed by the Engineer at the Contractor's expense.

Limited deflection temporary barrier systems that require anchorage systems shall conform with the relevant provisions of Subsection 850.70.

ITEM 853.33 (CONTINUED)

METHOD OF MEASUREMENT

Item 853.33 Temporary Barrier Limited Deflection (TL-3) will be measured for payment by the Foot, in place.

BASIS OF PAYMENT

Item 853.33 Temporary Barrier Limited Deflection (TL-3) will be paid for at the Contract unit price per Foot of limited deflection temporary barrier installed in place, including all incidental items. This price shall include the cost of furnishing, installing, maintaining and final removal of all limited deflection temporary barrier systems.

For limited deflection temporary barrier systems that require anchorage systems, the cost of furnishing and installing the anchorage and hardware and the restoration of pavement surfaces or adjacent permanent barrier systems to facilitate anchorage shall be considered incidental to the cost of the item. Payment for limited deflection temporary barrier removed and reset will be made under Item 853.21.

The work under this Item shall conform the relevant provisions of Section 850 of the Standard Specifications and the following:

Work under this item consists of furnishing, installing, maintaining proper operating conditions, and removing reflectorized drums, and any necessary ballast, equipped with sequential flashing warning lights.

MATERIALS

Reflectorized drums shall be listed on the MassDOT Qualified Traffic Control Equipment List.

Reflective sheeting on drums shall meet or exceed ASTM D4956 Type VIII. All drums shall be maintained in a satisfactory manner including the removal of oils, dirt, and debris that may cause reduced retroreflectivity.

The Contractor shall use one of the following sequential flashing warning light systems unless otherwise approved by the Engineer:

- Empco-Lite LWCSO.
- pi-Lit® Sequential Barricade-Style Lamp; or
- Unipart Dorman SynchroGUIDE.

Sequential flashing warning lights shall be secured to reflectorized drums per the light manufacturer's specifications.

CONSTRUCTION METHODS

The first ten (10) drums in any merging or shifting taper as designated in the Temporary Traffic Control Plan shall be equipped with sequential flashing warning lights. These lights shall be operating, at a minimum, between dusk and dawn when the taper is deployed.

The successive flashing of the sequential warning lights shall occur from the upstream end of the merging or shifting taper to the downstream end of the taper in order to identify the desired vehicle path. Each warning light in the sequence shall be flashed at a rate of not less than 55, nor more than 75 times per minute.

Warning lights shall be powered off when drums are not deployed in a taper.

METHOD OF MEASUREMENT

A group of ten (10) reflectorized drums with sequential flashing warning lights is considered one (1) unit and will be measured by the day. Each period of up to 24 hours during which this unit is in use will be measured as one day regardless of the number of times that the drums are positioned, repositioned, removed, or returned to service.

BASIS OF PAYMENT

Reflectorized Drums with Sequential Flashing Warning Lights will be paid for at the contract unit price per day, which shall include full compensation for furnishing, positioning, repositioning, and removing the group of ten (10) drums as directed by the Engineer.

ITEM 866.104

4 INCH REFLECTORIZED WHITE LINE
(THERMOPLASTIC)

FOOT

The work to be done under this item shall conform to the relevant provisions of Subsection 860 of the Standard Specifications and the following:

Work shall consist of furnishing and installation of 4-inch wide yellow thermoplastic pavement markings in the locations shown on the plans.

All materials, installation methods, and method of measurement and payment shall otherwise meet the requirements for the corresponding 6-inch wide thermoplastic pavement markings (Item 866.106) in Subsection 860.

ITEM 909.21**CONCRETE KEYWAY MORTAR****FOOT**

The work under this item shall conform to the relevant requirements of Subsections 901 and M4.04.0 of the Standard Specifications and the following:

The work to be done under this item consists of replacing the longitudinal keyway mortar between the existing interior prestressed concrete deck beams as shown on the Plans. The shape, width and depth of the keyway shall be maintained.

Prior to the placement of the new keyway mortar, the Contractor shall remove all existing deteriorated/crumbling material. Removal of the existing keyway mortar shall be measured and paid for separately under Item 127.1 Reinforced Concrete Excavation.

MATERIALS

The Contractor shall supply a joint filler that meets the requirements of M4.04.0 of the Standard Specifications and is specified for use in prestressed deck beam keyways. The Contractor shall use one of the joint fillers listed on the MassDOT Qualified Construction Materials List (QCML) unless otherwise approved by the Engineer. Regardless of material proposed for use, the Contractor shall submit the proposed joint material to the Engineer for review and approval.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Item 909.21 will be measured for payment by the foot of repaired keyway mortar installed, complete in place and accepted by the Engineer.

Item 909.21 will be paid for at the Contract unit price per foot, which price shall include all labor, materials, equipment, and incidental costs required to complete the work.

No separate payment will be made for installation of the polyurethane foam backer rod, but all costs in connection therewith shall be included in the Contract unit price bid.

The work under this item shall conform to the relevant provisions of Sections 901.20, 901.61, 901.63, 901.64 and 901.65 of the Standard Specifications and the following:

The work under this item shall include forming and placing single component shrinkage compensated mortar repair material that is pre-extended, polymer modified, and contains an integral corrosion inhibiting admixture. It shall be used for full and partial depth prestressed concrete beam repairs and resurfacing the concrete sidewalk as shown on the Plan or as directed by the Engineer.

The Contractor shall be experienced in this type of work and present proof of such experience by providing written documentation listing several projects on which single component shrinkage compensated micro concrete was satisfactorily placed under his/her supervision.

The mortar shall be applied by workmen who, in the judgment of the Engineer, are sufficiently experienced and skilled in this class of work.

MATERIAL

All materials to be used under this Item shall be submitted to the Engineer for review and approval. The repair mortar shall consist of pre-blended components that shall only require the addition of a prescribed quantity of potable water prior to mixing and placement. The repair mortar shall provide the following physical properties:

PROPERTY	RESULTS	TEST METHODS
Fresh Wet Unit Weight	137 to 144 PCF	ASTM C 138
1 Day Compressive strength (2" Cubes)	2200 PSI	ASTM C 109
7 Day Compressive strength (2" Cubes)	5000 PSI	ASTM C 109
28 Day Compressive strength (2" Cubes)	6000 PSI	ASTM C 109
28 Day Compressive strength (3" x 6" Cylinders)	5000 PSI	ASTM C 39
Flexural Strength at 28 Days	1100 PSI	ASTM C 348
Slant Shear Bond Strength at 28 Days	2400 PSI	ASTM C882 (modified ¹)
Splitting Tensile Strength at 28 Days	500 PSI	ASTM C496
Drying Shrinkage at 28 Days	700 Micro Strain	ASTM C157 (modified)
Freeze/Thaw Resistance % RDM ²	95	ASTM C 666
Rapid Chloride Permeability at 28 Days	Less Than 1000 Coulombs	ASTM C 1202

¹ No Bonding Agent

² Relative Dynamic Modulus

ITEM 909.41 (CONTINUED)

The repair mortar shall conform to EPA/USPHS Standards for surface contact with potable water, shall not produce a vapor barrier, and shall be thermally compatible with concrete.

The Contractor shall furnish notarized certification that all materials conform to the above requirements. The physical properties shall be tested by an independent AASHTO accredited testing laboratory to validate and document conformance to the requirements of this specification.

METHODS

Mixing

Thorough mixing of the repair mortar is required. A forced-action mixer is essential. Mixing in a suitably sized container using an appropriate paddle with a slow speed (400-500 rpm) heavy-duty drill is acceptable. Free-fall mixers must not be used. Only full bags shall be mixed and used. It is essential that machine mixing capacity and the crew size is adequate to enable the placing operation to be carried out continuously. Mechanically mix in appropriately sized mortar mixer or with electric drill and paddle.

Temperature Restrictions

The mixing shall be carried out in accordance with the manufacturer's specifications. The repair mortar shall not be mixed and placed when air or substrate temperatures are below 45°F. Cold weather protection shall be provided in accordance with Subsection 901.64-C of the MassDOT Standard Specifications. Hot weather protection shall be provided in accordance with Subsection 901.64-A of the MassDOT Standard Specifications.

Preparation of Substrate Surfaces

The edges of the areas to be repaired shall be saw cut to a minimum depth of 3/4" to avoid featheredging and to provide a squared edge. All deteriorated, scaling, loose or unsound concrete shall be removed by mechanical or hand chipping. The remaining surface shall be free of oil, grease, paint, corrosion deposits, dust, laitance, or other surface contamination. The effectiveness of the cleaning shall be verified with a pull off test. No method of surface preparation shall be used that could damage sound concrete.

All reinforcing steel shall be abrasively blast cleaned in accordance with the ICRI Technical Guideline No. 310.1R "Guide for Surface Preparation for the Repair of Deteriorated Concrete Resulting from Reinforcing Steel Corrosion."

Extreme care shall be used in concrete removal so that the exposed prestress strands are not damaged. All exposed and corroding prestressing strands shall be cleaned and painted with epoxy conforming to AASHTO M235, Type II, Grade 2, Class B or C which shall be incidental to this item.

The Contractor shall have the approval of the Engineer certifying that all spalled and deteriorated concrete has been removed and that all reinforcing steel, including prestressing steel, is satisfactorily cleaned prior to repairing the deteriorated areas. The Contractor shall also install new reinforcing bars at locations approved by the Engineer and to the lapping/splice requirements shown on the Plans. New reinforcing steel shall be paid for under Item 910.1 – Steel Reinforcement for Structures – Epoxy Coated.

Any reinforcing steel damaged by the Contractor's operations will be replaced by the Contractor at his/her own expense.

ITEM 909.41 (CONTINUED)

Forming and Placement of Repair Mortar

1. All formwork shall be rigid and tight to prevent loss of material. The forms shall be watertight with perimeters lined with foam gasket material.
2. Form detailing shall allow for a minimum of 2" cover over all steel.
3. A suitable form release agent shall be used to facilitate the removal of forms from the cast material.
4. The forms shall be filled with clean water 24 hours prior to the mortar placement.
5. Immediately before placing, the water shall be drained leaving the substrate saturated surface dry (SSD) with no ponded water remaining.
6. In jobsite circumstances where the formwork cannot be filled with water, spray the substrate with clean water to achieve a saturated surface dry (SSD) condition immediately before placing the mortar.
7. When the repair mortar is pumped, the pump shall be capable of continuous even flow of mortar into the repair cavity without having any line surge. Line surge will result in possible air voids and segregation.
8. Prior to pumping mortar, all hoses must be pre-wetted with clean water to ensure that initial flow properties are maintained.
9. The pumping distance must be kept to a minimum. The pumping hoses shall be a minimum diameter of 3 times the size of the largest aggregate and the minimum size permitted shall be 1" diameter.
10. The pump pressure shall be limited to the minimum necessary to completely fill the cavity with repair mortar.
11. Immediately after mixing, pump the repair mortar into the formed area.

Finishing

1. Fascia and Underside Deck Beam Repairs: Self-consolidating repair mortar for full and partial depth repair areas shall receive a smooth finished surface that matches the surrounding beam surface.
2. Topside Deck Beam Repairs (Roadway): Self-consolidating repair mortar for full and partial depth repair areas shall be finished according to the Surface Preparation section of Item 476.36.
3. Sidewalk Resurfacing: Self-consolidating repair mortar placed for the sidewalk beam resurfacing shall receive a pull-broom finish to establish a non-slip walking surface.

Curing

1. Formwork shall remain in place until a minimum compressive strength of 2500 psi is reached, or 5 days, whichever is greater.
2. If the repair area is not to receive a protective coating, an approved curing compound shall be applied to the repair area upon form removal.
3. If the repair area is to receive a protective coating, polyethylene sheeting shall be applied to the repair area and the sheeting perimeter shall be taped down until the completion of a 7 day curing period.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Item 909.41 will be measured for payment by the square foot of repair area installed, complete in place and accepted by the Engineer.

Item 909.41 will be paid for at the Contract unit price per square foot, which price shall include all labor, materials, equipment, and incidental costs required to complete the work.

No separate payment will be made for installation of sacrificial anodes or cleaning and painting existing reinforcing steel at any repair locations, but all costs in connection therewith shall be included in the Contract unit price bid.

No separate payment will be made for forming the repair areas and pre-wetting of the substrate but all costs in connection therewith shall be included in the Contract unit price bid.

ITEM 909.41 (CONTINUED)

The removal of deteriorated concrete will be paid for separately under Item 127.1 – Reinforced Concrete Excavation.

The installation of new reinforcing steel will be paid for separately under Item 910.1 – Steel Reinforcement for Structures – Epoxy Coated.

ITEM 994.1**TEMPORARY PROTECTIVE SHIELDING****SQUARE FOOT**

The work under this item shall include designing, furnishing, installing, maintaining, removing, and finally disposing of the protective shielding system on the underside of the adjacent deck beam superstructure. The shielding shall protect the stream below from debris and the public on the bridge from falling or flying debris during concrete excavation for beam repairs. The shielding system shall be installed in-place prior to any demolition on the bridge.

The Contractor may be required to change or modify the protective system if it is not performing adequately as determined by the Engineer. No additional compensation will be made for changing or modifying the protective system. The Engineer's approval of the proposed protective system does not relieve the Contractor of changing or modifying the protective system.

If the Contractor's operations damage any existing portions of the bridge that have been designated to be retained in the proposed construction, such damage shall be repaired at the Contractor's expense.

All materials used in the shielding system shall become the property of the Contractor and shall be removed from the site at the completion of the project.

SUBMITTALS

Prior to the commencement of any work under this item, the Contractor shall submit to the Engineer for review and approval a submittal including calculations and detail drawings of the proposed shielding and shall conform to the following:

1. Shielding shall be designed such that impact on traffic during installation and removal will be minimal.
2. Shielding shall be in place prior to the start of concrete excavation and shall be inspected and approved by the Engineer after installation and prior to commencement of further construction activities.
3. The Contractor is not permitted to drill into, excavate or cut into the existing concrete beams for the purpose of supporting the temporary shielding.
4. Shielding shall be installed such that the flow of Hawes Brook is not impeded or otherwise diverted by the shielding devices during the duration of construction.
5. The shielding shall be designed to withstand the maximum size of the area being excavated, should it fall inadvertently.
6. Shielding shall be installed or removed only upon approval of the Engineer.
7. For repairs to the underside of the superstructure, shielding shall extend the length of the damaged or distressed portion of the beam a length of sufficient distance to do the required partial or full depth repair.

METHOD OF MEASUREMENT

Item 994.1 Temporary Protective Shielding will be measured for payment by the Square Foot of shielding installed, maintained, and removed upon completion of repair work as required by the Engineer.

BASIS OF PAYMENT

Item 994.1 Temporary Protective Shielding will be paid at the Contract unit price per Square Foot of shielding installed, maintained, and removed upon completion of repair work as directed by the Engineer.

The Contract price shall include all labor, materials, tools, equipment, and incidental costs required to complete the work as required by the Engineer.

60% of the Unit bid Price will be paid upon installation of the shielding and the remaining 40% will be paid upon removal.

ITEM 999.1**POLICE SERVICES****ALLOWANCE**

The Contractor shall furnish police services required to direct traffic on existing roadways where traffic is maintained. The Contractor shall provide such police officers as may be deemed necessary by either the Engineer or the Town of Norwood for the direction and control of all traffic traveling within the project area. The police officers shall be obtained from the Norwood Police Department as applicable. The police officers shall be paid by the Contractor at the prevailing rate of wages established by the Town of Norwood. The Town of Norwood shall reimburse the Contractor for police services. The Contractor shall only pay the Detail rate. The surcharge rate shall not be reimbursed.

The services of uniformed police officers for the maintenance of traffic shall be used if required by Norwood Police Department (PD). The Contractor shall be responsible to contact the police department to arrange for a police detail at least 24 hours before the detail is needed. The Contractor shall be responsible to check and sign all police detail slips on a daily basis as they occur, noting the name of the officer, the municipal PD, the date and time the officer arrived and ended provision of the traffic detail. The actual payment to the PD will be made directly by the Contractor who will be reimbursed by the Town of Norwood by including proof of payment to the PD attached to the submitted pay request.

To cancel a scheduled Police Detail, the Contractor shall notify the PD a minimum of two hours prior to when the detail was to begin. The Contractor should note the name of the person at the PD who was contacted, along with the date and time of the cancellation. Failure to give at least a two-hour prior notice to the PD to cancel a scheduled police detail will result in the Contractor paying the four hour minimum uniformed officer(s) charge at the contracted police wage rate, with no compensation from the Town of Norwood.

Nothing contained herein shall be construed as relieving the Contractor of any of his/her responsibilities for protection of persons and property under the terms of the Contract.

ALLOWANCE OF POLICE SERVICES

An allowance of \$25,000 for Bridge No. N-25-017 for the furnishing of police services has been included in all bids. This allowance is determined by multiplying the number of hours estimated as necessary by the prevailing hourly rate of wages established for such services. The Contractor shall submit certified copies of itemized bills of services rendered for review and approval by the Engineer. Item 999.1 shall be measured for payment by the actual police details paid for directly by the Contractor submitted as part of pay requests, including proof of payment attached and reimbursed by the Town of Norwood at the actual cost of the police details. The allowance will be adjusted to the actual amount paid for authorized and approved police services as stipulated and shall include other payments due to any legal requirements of the State and Federal governments.

SECTION E SIGNATURE & CONTRACT SECTION

1 QUANTITIES: The quantities used herein are approximate only and are solely for the purpose of facilitating the comparison of bid. The Contractor's compensation shall be computed upon the work actually performed, measured by the unit of measurement specified, whether greater or less than the quantities shown in the Bid Summary Sheets, and that the unit prices set against the several work items cover all incidental services required of the Contractor under the Contract.

ITEM NO.	QTY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		TOTAL	
			DOLLARS	CENTS	DOLLARS	CENTS
102.1	75	AT TREE TRIMMING PER FOOT				
102.511	1	AT TREE PROTECTION - ARMORING & PRUNING PER EACH				
102.521	25	AT TREE AND PLANT PROTECTION FENCE PER FOOT				
106.303	1	AT CLEAN (FULL REMOVAL) AND PAINT STEEL RAILINGS PER LUMP SUM				
106.9	300	AT JOINT FILLER COMPOUND PER FOOT				
127.1	10	AT REINFORCED CONCRETE EXCAVATION PER CUBIC YARD				
129.6	160	AT BRIDGE PAVEMENT EXCAVATION PER SQUARE YARD				
220.	1	AT DRAINAGE STRUCTURE ADJUSTED PER EACH				
415.2	1100	AT PAVEMENT FINE MILLING PER SQUARE YARD				
443.	2	AT WATER FOR ROADWAY DUST CONTROL PER THOUSAND GALLONS				
450.22	105	AT SUPERPAVE SURFACE COURSE - 9.5 (SSC - 9.5) PER TON				
450.32	55	AT SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC - 19.0) PER TON				
450.60	15	AT SUPERPAVE BRIDGE SURFACE COURSE - 9.5 (SSC-B - 9.5) PER TON				

CARRIED FORWARD

BROUGHT FORWARD

ITEM NO.	QTY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		TOTAL	
			DOLLARS	CENTS	DOLLARS	CENTS
450.70	15	AT SUPERPAVE BRIDGE PROTECTIVE COURSE - 9.5 (SPC-B - 9.5) PER TON				
451.	10	AT HMA FOR PATCHING PER TON				
476.36	1500	AT ULTRA HIGH PERFORMANCE CONCRETE OVERLAY PER SQUARE FOOT				
482.31	175	AT SAWING & SEALING JOINTS IN ASPHALT PAVEMENT AT BRIDGES PER FOOT				
628.31	2	AT IMPACT ATTENUATOR FOR SHOULDER, INCAPABLE OF REDIRECTION PER EACH				
628.4	4	AT TEMPORARY IMPACT ATTENUATOR, REMOVED AND RESET PER EACH				
697.1	1	AT SILT SACK PER EACH				
697.2	60	AT FLOATING SILT FENCE PER FOOT				
706.1	6	AT BRICK WALK REMOVED AND RELAID PER SQUARE YARD				
748.	1	AT MOBILIZATION PER LUMP SUM				
852.	300	AT SAFETY SIGNING FOR TRAFFIC MANAGEMENT PER SQUARE FOOT				
853.1	4	AT PORTABLE BREAKAWAY BARRICADE TYPE III PER EACH				

CARRIED FORWARD

BROUGHT FORWARD

ITEM NO.	QTY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		TOTAL	
			DOLLARS	CENTS	DOLLARS	CENTS
853.21	210	AT TEMPORARY BARRIER REMOVED AND RESET PER FOOT				
853.33	210	AT TEMPORARY BARRIER - LIMITED DEFLECTION (TL-3) PER FOOT				
854.016	550	AT TEMPORARY PAVING MARKINGS - 6 INCH (PAINTED) PER FOOT				
854.1	350	AT PAVEMENT MARKING REMOVAL PER SQUARE FOOT				
859.	1400	AT REFLECTORIZED DRUM PER DAY				
859.1	60	AT REFLECTORIZED DRUMS WITH SEQUENTIAL FLASHING WARNING LIGHTS PER DAY				
866.104	200	AT 4 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC) PER FOOT				
867.106	500	AT 6 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC) PER FOOT				
909.21	325	AT CONCRETE KEYWAY MORTAR PER FOOT				
909.41	800	AT SELF CONSOLIDATING CONCRETE REPAIR MORTAR PER SQUARE FOOT				
910.1	500	AT STEEL REINFORCEMENT FOR STRUCTURES - EPOXY COATED PER POUND				
965.	1365	AT MEMBRANE WATERPROOFING FOR BRIDGE DECKS PER SQUARE FOOT				
994.1	1000	AT TEMPORARY PROTECTIVE SHIELDING PER SQUARE FOOT				
999.1	1	AT POLICE SERVICES PER ALLOWANCE	\$30,000	00	\$30,000	00

CARRIED FORWARD

BT-3

TOTAL

TOTAL PRICE IN WORDS: _____

BASIS OF AWARD: TOTAL AMOUNT OF BID, BASED ON ENGINEER'S ESTIMATE OF QUANTITIES Sum of all Items

Having examined the Place of the Work and all matters referred to in the Instructions to Bidders and the Contract Documents prepared by The Town of Norwood, the undersigned, hereby offer to enter into a Contract to perform the Work, **Proposed Bridge Replacement – Westover Parkway over Germany Brook (N-25-035) (CP9)**, for the Price of:

\$ _____ dollars,

(\$ _____) in lawful money of the United States of America and, We have included herewith, the unit price bid forms, and the required security deposit or Bid Bond as required by the Instruction to Bidders.

This project is exempt from all Massachusetts sales taxes.

The undersigned agrees that for extra work, if any, will be performed in accordance with Article 10 of the General Conditions of the Contract and will be paid for in accordance with Article 11 of the General Conditions of the Contract.

The bid security accompanying this BID shall be in the amount of 5 percent of the BID.

If this BID is accepted by the Owner, the undersigned agrees to complete the entire work provided to be done under the Contract within the agreed upon time frame between the Contractor and City stipulated in the AGREEMENT.

As provided in the OPENING AND CONSIDERATION OF BIDS section, the bidder hereby agrees that he will not withdraw this BID within thirty (30) consecutive calendar days after the actual date of the opening of Bids and that, if the Owner shall accept this BID, the bidder will duly execute and acknowledge the AGREEMENT and furnish, duly executed and acknowledged, the required CONTRACT BONDS within ten (10) days after notification that the AGREEMENT and other Contract Documents are ready for signature.

Should the bidder fail to fulfill any of his agreements as hereinabove set forth, the Owner shall have the right to retain as liquidated damages the amount of the bid check or cash which shall become the Owner's property. If a bid bond was given, it is agreed that the amount thereof shall be paid as liquidated damages to the Owner by the Surety.

Bidder has examined copies of all the Contract Documents and the following addenda listed:

Addenda number(s) _____ or circle: N/A
(To be filled in by Bidder if Addenda are issued.)

The time period for holding bids where Federal approval is not required is 30 days, Saturdays, Sundays and legal holidays included, after the opening of bids and where Federal approval is required, the time period for holding bids is 30 days, Saturdays, Sundays and legal holidays excluded after Federal approval.

The undersigned must furnish a 100 percent Construction Performance Bond and a 100 percent Construction Payment Bond with a surety company acceptable to the Owner. The name and address of the surety company who will sign the performance and payment bonds is as follows:

The bidder, by submittal of this BID, agrees with the Owner that the amount of the bid security deposited with this BID fairly and reasonably represents the amount of damages the Owner will suffer due to the failure of the bidder to fulfill his agreements as above provided.

The undersigned hereby certifies that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work and that he will comply fully with all laws and regulations applicable to awards

made subject to MGL Ch. 30, Section 39M. The bidding and award of the contract will be in full compliance with Section 39M inclusive of Chapter 30 of the General Laws of the Commonwealth of Massachusetts as last revised.

The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth under the provisions of section twenty-nine F of chapter twenty-nine, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated there under.

Pursuant to M.G.L. Ch. 62C, sec. 49A, I certify under the penalties of perjury that I, to my best knowledge and belief, have filed all state tax returns and paid all state taxes required under law.

The undersigned certifies under penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this paragraph the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity. The attached CERTIFICATE OF NON-COLLUSION must be signed and submitted as part of the Bid Proposal.

(SEAL) _____ L.S. By _____
(Name of Bidder) (Signature and title of authorized representative)

(Business address)

(City and State)

Date _____

The bidder is a corporation incorporated in the State (or Commonwealth) of _____ - a partnership - an individual.
(Bidder must add and delete as necessary to make this sentence read correctly.)

(Note: If the bidder is a corporation, affix corporate seal and give below the names of its president, treasurer, and general manager if any; if a partnership, give full names and residential addresses of all partners; and if an individual, give residential address if different from business address.)

The required names and addresses of all persons interested in the foregoing Bid, as Principals, are as follows:

The bidder is requested to state below what work of a similar character to that included in the proposed Contract he has done and to give references that will enable the Owner to judge his experience, skill, and business standing.

(Add supplementary page if necessary.)

SIGNATURE: _____

COMPANY NAME: _____

DATE: _____

ADDRESS: _____

2 CERTIFICATIONS

- 2.1 In accordance with Section 44E, Chapter 149, M.G.L. the bidder by signing the bid certifies ability to furnish labor that can work in concert with all other elements of labor employed or to be employed at the work site(s).
- 2.2 Norwood is an Affirmative Action Equal Opportunity Employer. Bidders shall make themselves aware of the existing Affirmative Action laws, policies, and practices before submitting this Bid. Failure to make this confirmation shall not relieve the Bidder of its responsibility.
- 2.3 The undersigned agrees, if awarded the contract, to commence work within ten (10) working days after the award of the contract, and providing suitable performance and payment bonds are received by the General Manager within the time specified in this bid.
- 2.4 Acceptance by the Town shall constitute a Contract between the Town of Norwood and the Bidder.
- 2.5 We/I have carefully examined the contract documents and all five sections (A, B, C, D, & E) including any addenda and changes and agree to furnish the item(s), service(s), material(s), supplies, as specified and described in all sections of the Contract Documents.
- 2.6 We/I accept responsibility for confirming with the General Manager's Office, prior to submission of a sealed Bid that all addenda relating to this Bid have been received. Failure to make this confirmation shall not relieve us/me of the responsibility to fulfill the contract.
- 2.7 We/I, the undersigned, certify under penalties of perjury that this Bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in the section, the word "person" shall mean any natural person, joint venture, partnership, corporation, or other business or legal entity.
- 2.8 By signing this Bid, the contractor shall certify that under penalties of perjury, the signing party has filed all State tax returns and has paid all State taxes required under law.
- 2.9 The named organizational entity submitting this Bid is (check appropriate line(s)):
- Corporation ____ Partnership ____ Proprietorship ____
- Minority-Owned ____ Woman-Owned ____

3 SIGNATURES:

This page must be signed by a(n) individual(s) with authority to commit the Bidding entity to a binding agreement. See Section B, paragraph 3.3. Corporations attach required certification:

COMPANY NAME: _____

AUTHORIZED SIGNATURE: _____

PRINT NAME OF AUTHORIZED OFFICIAL: _____

ADDRESS: _____

TELEPHONE NUMBER: _____ EMAIL: _____

DATE: _____ FEDERAL TAX ID # _____

A notarized attestation of the signature(s) is required, or in the case of a corporation, attestation by the Secretary of the Corporation with the corporate seal affixed, that the signature is the signature of an officer authorized to bind the corporation to a contractual agreement. Please complete the attached certificate of vote for corporations.

Accepted and Executed on _____, 2025 by the Town of Norwood by

_____,
Tony Mazzucco, General Manager

4 CHECK LIST

- Have you signed and sealed Section E Pricing & Contract Sections?
- Have you signed and attached any contract addenda or changes?
- Is your Bid Bond enclosed?
- Are all of your contract exceptions attached?
- Have you signed the Special Provisions page?

CERTIFICATE OF VOTE

I, _____, Clerk of _____,
hereby

certify that, at a meeting of the Board of Directors of said Corporation duly held on _____, 20____,
at which a quorum was present and voting throughout, the following vote was duly passed and is now in full force and
effect:

“VOTED: That _____ be and
hereby is

(NAME OF OFFICER AUTHORIZED TO SIGN FOR CORPORATION)

authorized, directed and empowered for, in the name and on behalf of this Corporation to sign seal with the corporation
seal, execute, acknowledge and deliver all contracts, bonds, and other obligations of this Corporation: the execution of any
such contract, bond or obligation by such _____ to be valid and binding upon this
Corporation for all purposes, and

(NAME OF OFFICER)

that a certificate of the Clerk of this Corporation setting forth this vote shall be delivered to the Town of Norwood; and that
this vote shall remain in full force and effect unless and until the same has been altered, amended, or revoked by a
subsequent vote of such directors and a certificate of such later vote attested by the Clerk of this Corporation is delivered to
the Town of Norwood.”

I further certify that _____ is the duly elected _____ of said
Corporation.

(NAME OF OFFICER)

(TITLE)

Signed: _____
(CLERK-SECRETARY)

Place of Business: _____

Date of Contract: _____

AFFIX CORPORATE SEAL HERE

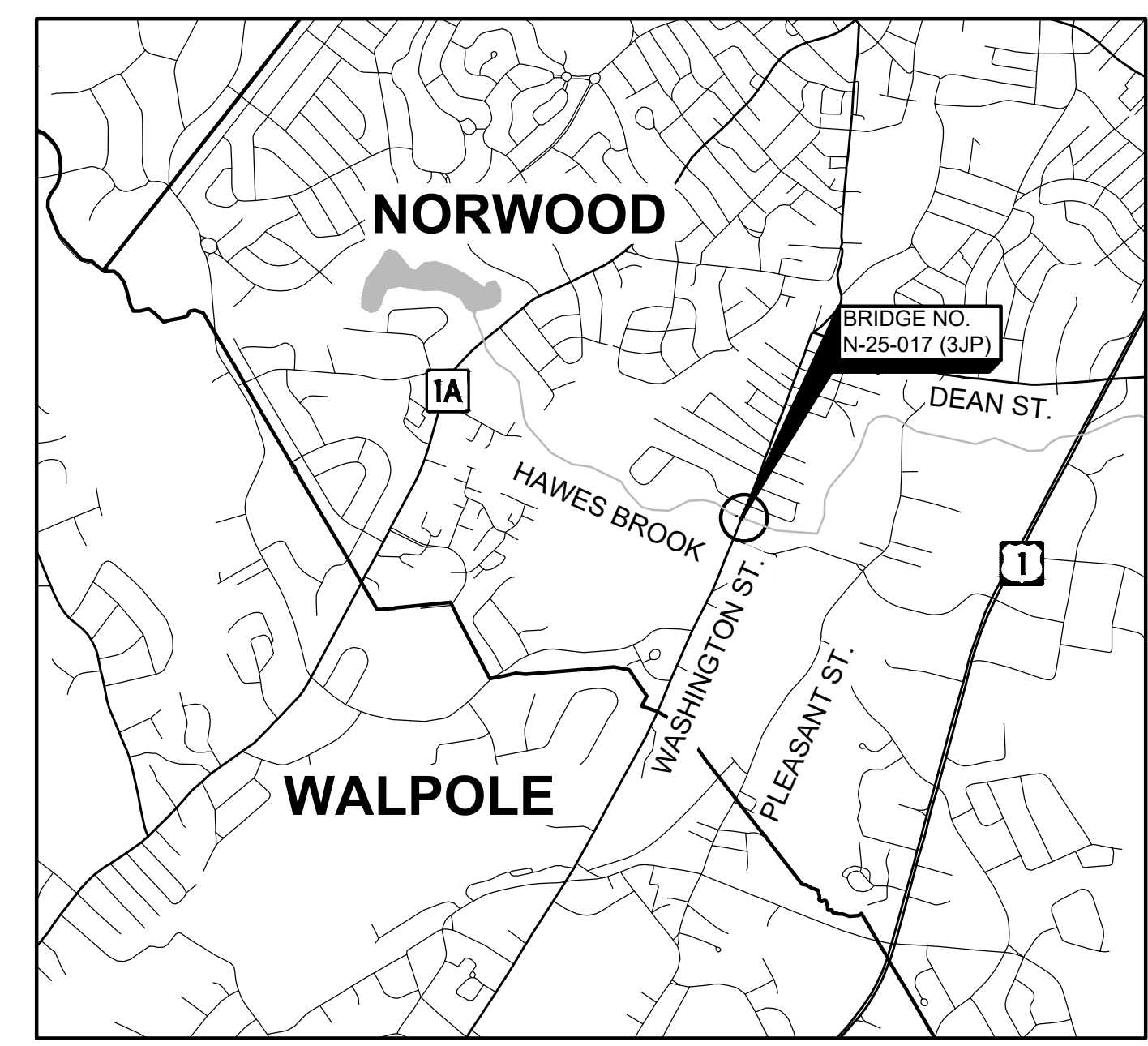
COUNTERSIGNATURE: _____
(NAME AND TITLE OF OFFICER)

In the event that the Clerk or Secretary is the same person as the Officer authorized to sign that contract or other instrument
for the Corporation, this certificate must be countersigned by another officer of the Corporation.

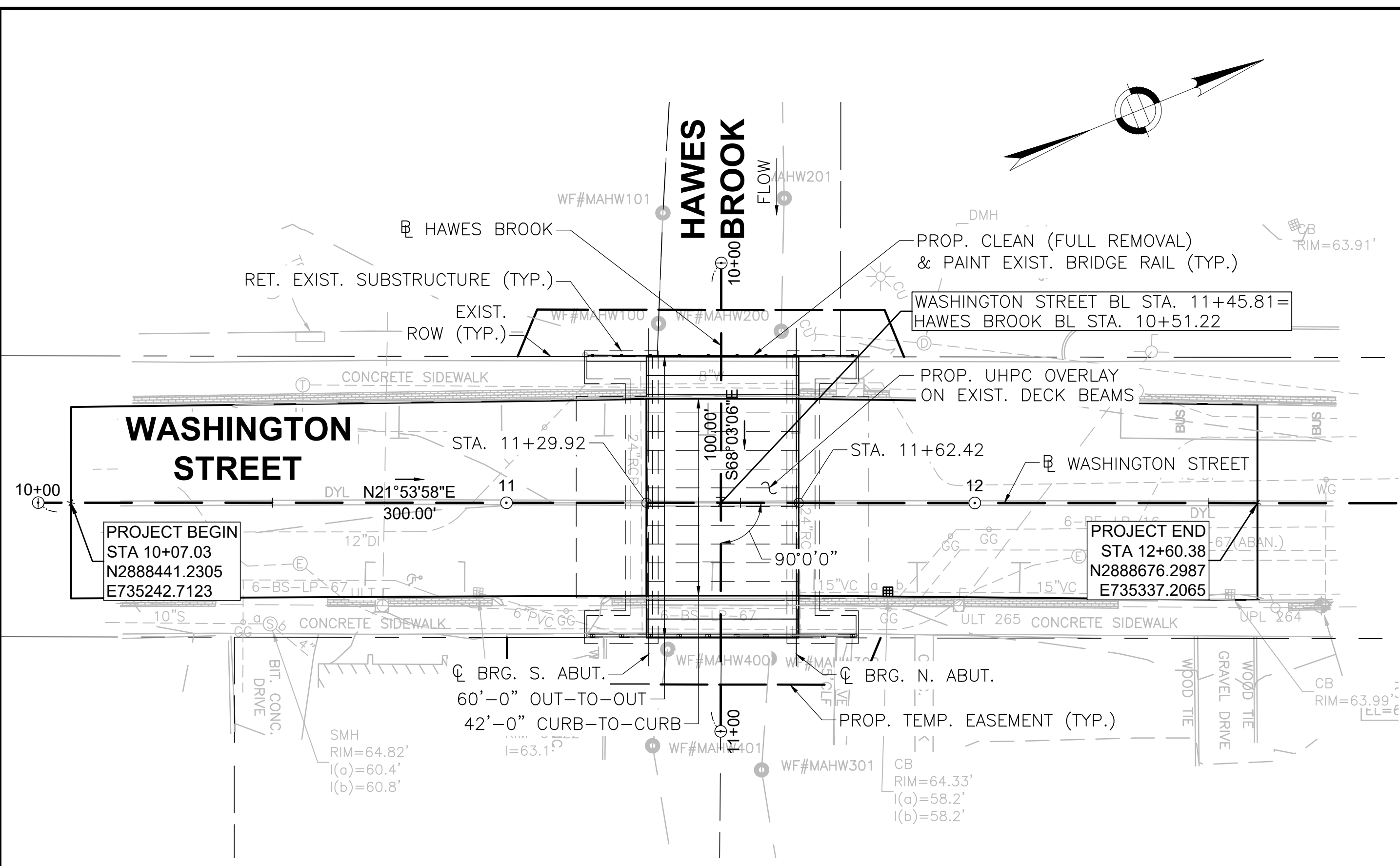
NORWOOD
WASHINGTON STREET OVER HAWES BROOK

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	1	17
TEC PROJECT NO.		T1304	

KEY PLAN PROFILE AND LOCUS



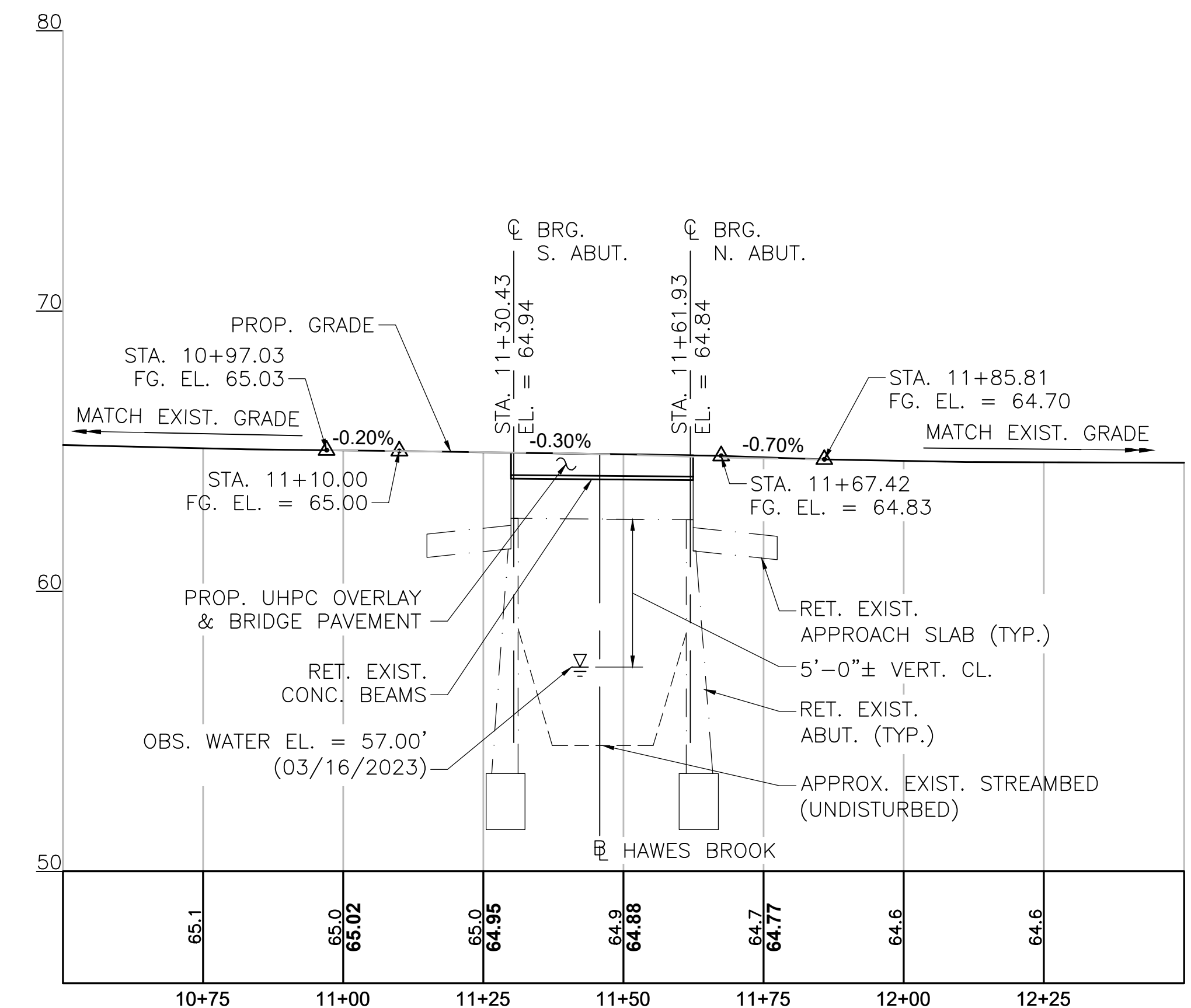
LOCUS MAP
SCALE: 1" = 1000'



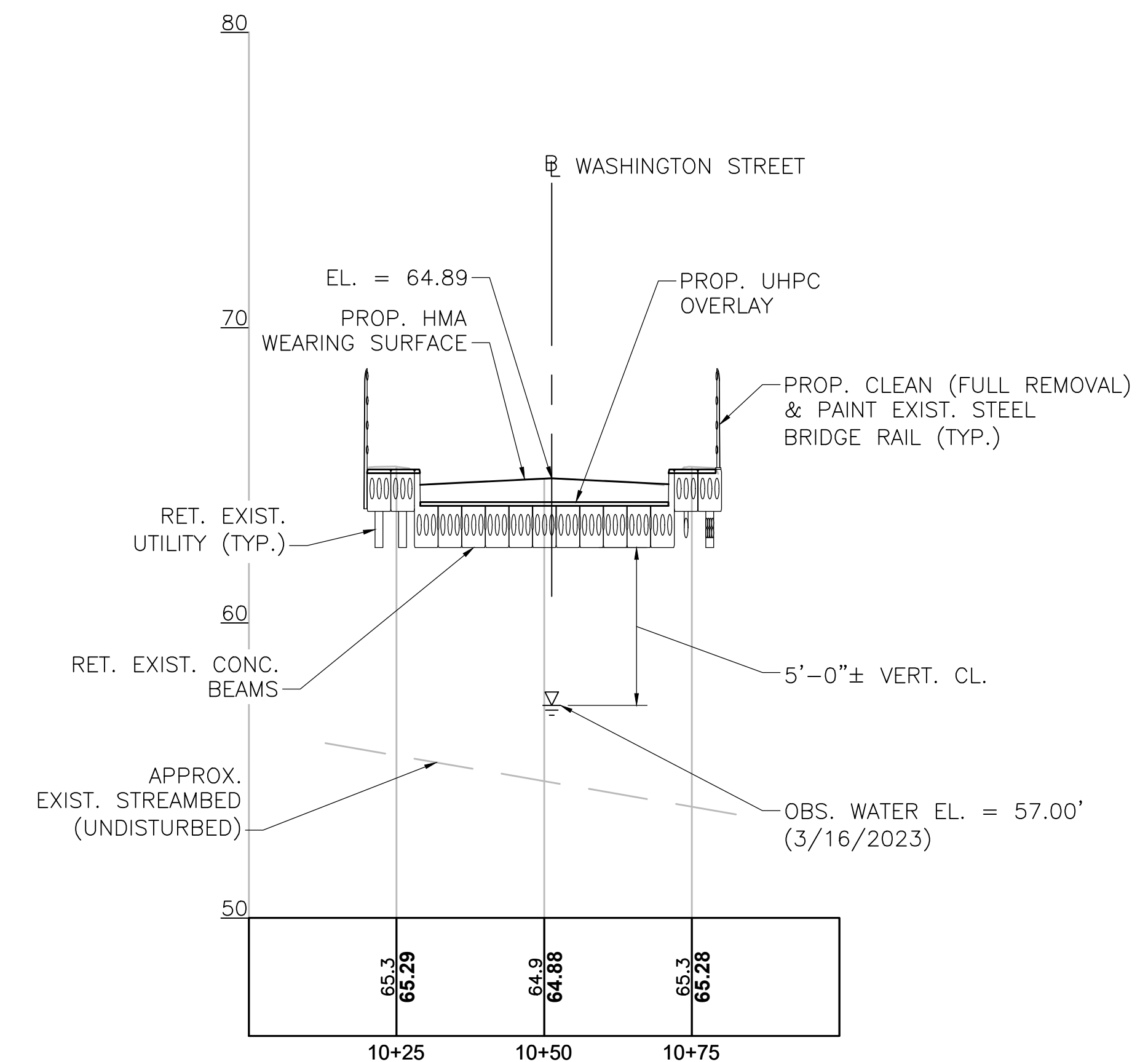
KEY PLAN
SCALE: 1" = 20'

INDEX

SHEET NO.	TITLE
1	KEY PLAN PROFILE AND LOCUS
2	GENERAL NOTES
3	PLAN AND ELEVATION
4	DEMOLITION LIMITS
5	SUPERSTRUCTURE REPAIR SCHEDULE
6	GRADING & CONSTRUCTION PLAN (1 OF 2)
7	GRADING & CONSTRUCTION PLAN (2 OF 2)
8	CONSTRUCTION DETAILS (1 OF 2)
9	CONSTRUCTION DETAILS (2 OF 2)
10	SUPERSTRUCTURE REPAIR DETAILS
11	PAVEMENT MARKING PLAN
12	TRAFFIC MANAGEMENT PLAN (1 OF 6)
13	TRAFFIC MANAGEMENT PLAN (2 OF 6)
14	TRAFFIC MANAGEMENT PLAN (3 OF 6)
15	TRAFFIC MANAGEMENT PLAN (4 OF 6)
16	TRAFFIC MANAGEMENT PLAN (5 OF 6)
17	TRAFFIC MANAGEMENT PLAN (6 OF 6)

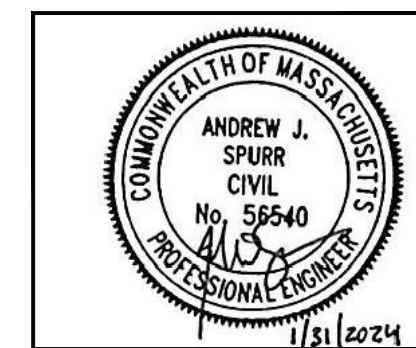


WASHINGTON STREET PROFILE
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'

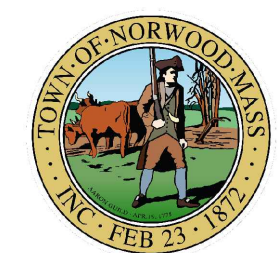


HAWES BROOK PROFILE
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'

COMMONWEALTH OF MASSACHUSETTS
MassDOT, Highway Division
APPROVED UNDER PROVISIONS OF
MASS. GEN. LAWS CH 85 S 35
She Sam 1/31/2024
DISTRICT 5 BRIDGE ENGINEER DATE



JANUARY 31, 2024 ISSUED FOR CONSTRUCTION



PROPOSED BRIDGE PRESERVATION
NORWOOD
WASHINGTON STREET
OVER HAWES BROOK
TOWN OF NORWOOD
1 LYMAN PLACE
NORWOOD, MA 02062

**NORWOOD
WASHINGTON STREET OVER HAWES BROOK**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	2	17
TEC PROJECT NO.		T1304	

GENERAL NOTES

GENERAL NOTES:

DESIGN:

IN ACCORDANCE WITH THE 1983 AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, MANUAL FOR MAINTENANCE INSPECTIONS OF BRIDGES, AND INTERIM SPECIFICATIONS, 1984 THROUGH 1988 FOR H20 LOADING AS REFERENCED IN THE EXISTING RATING REPORT.

EXISTING CONDITIONS:

THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING DETAILS NECESSARY TO COMPLETE THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY AND ACCURACY THEREOF AND SHALL NOT ORDER ANY MATERIALS UNTIL THE REQUIRED MEASUREMENTS HAVE BEEN MADE ON THE STRUCTURE. ALL EXISTING BRIDGE DIMENSIONS SHOWN THROUGHOUT THESE PLANS ARE TAKEN FROM THE EXISTING BRIDGE PLANS, DATED 1966.

EXISTING BRIDGE PLANS:

PLANS FOR THE EXISTING BRIDGE ARE AVAILABLE AND HAVE BEEN INCLUDED IN THE BIDDING PACKAGE.

SCALES:

DRAWINGS ARE TO SCALE FOR FULL SIZED SHEETS (24"x36") BUT ARE NOT APPLICABLE TO REDUCED SIZE PRINTS. DIVIDE SCALES BY 2 FOR HALF-SIZE PRINTS (A3).

BENCHMARK:

HYDRANT-BOLT OVER MAIN OUTLET
EL. 66.62'
N: 2888680.8185
E: 735362.5930

ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

MATERIALS:

SELF-CONSOLIDATING REPAIR MORTAR: CONCRETE SIDEWALK RESURFACING, PARTIAL AND FULL DEPTH CONCRETE BEAM REPAIRS

ULTRA HIGH PERFORMANCE CONCRETE: PROTECTICE OVERLAY ON TOP OF EXISTING ROADWAY BEAMS (SEE ITEM 476.36)

REINFORCEMENT:

REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 31 GRADE 60. ALL REINFORCING STEEL SHALL BE EPOXY COATED UNLESS OTHERWISE NOTED. UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS, ALL BARS SHALL BE LAPPED AS FOLLOWS:

MODIFICATION CONDITION:	#4 BARS	#5 BARS	#6 BARS
1. NONE	16"	19"	23"
2. 12" OF CONCRETE BELOW BAR	20"	25"	30"
3. EPOXY COATED BARS, COVER < 3db, OR CLEAR SPACING < 6db	23"	29"	34"
4. COATED BARS, ALL OTHER CASES	18"	23"	27"
5. CONDITION 2. AND 3.	26"	32"	39"
6. CONDITION 2. AND 4.	24"	30"	36"

ALL OTHER BARS SHALL BE LAPPED AS SHOWN ON THE CONSTRUCTION DRAWINGS.

STEEL REINFORCEMENT MATS SHALL BE SECURED AGAINST DISPLACEMENT BY TYING INTERSECTION POINTS WITH A MAXIMUM OF TWELVE (12) INCHES BETWEEN TIED JOINTS.

REINFORCEMENT IS TO BE PLACED AT A CLEAR DISTANCE OF TWO (2) INCHES FROM THE FACE OF CONCRETE, UNLESS OTHERWISE SHOWN ON THE PLANS.

MEMBRANE WATERPROOFING:

MEMBRANE WATERPROOFING APPLIED BETWEEN THE UHPC OVERLAY AND BRIDGE PAVEMENT SHALL BE MEMBRANE WATERPROOFING FOR BRIDGE DECKS, SPRAY APPLIED.

UTILITIES:

THE CONTRACTOR SHALL LOCATE AND PROTECT FROM DAMAGE ALL EXISTING UTILITIES. ALL EXISTING UTILITIES SHALL REMAIN IN PLACE AND ACTIVE THROUGHOUT THE DURATION OF CONSTRUCTION.

SHOP DRAWINGS:

THE CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS AS REQUIRED BY THE STANDARD SPECIFICATIONS AND THE LATEST MASSDOT BRIDGE MANUAL.

TRAFFIC CONTROL:


THE CONTRACTOR SHALL MAINTAIN TWO LANES OF TRAFFIC THROUGH THE DURATION OF BRIDGE CONSTRUCTION. NO WORK SHALL OCCUR IN EACH PHASE UNTIL ALL TEMPORARY TRAFFIC CONTROL FEATURES ARE COMPLETED IN PLACE. REPAIRS TO THE SUPERSTRUCTURE SHALL TAKE PLACE CONCURRENTLY WITH TOPSIDE WORK.

LANE CLOSURE WITH ALTERNATING TRAFFIC FOR PHASE 4 AND 5 (MILLING AND PAVING AT APPROACHES) SHALL BE COMPLETED DURING NIGHT TIME WITH POLICE DETAIL BETWEEN 9:00 PM AND 6:00 AM.

CLEAN (FULL REMOVAL) AND PAINT STEEL RAILINGS:

THE EXISTING STEEL BRIDGE RAILINGS AND ALL RELATED ELEMENTS (I.E. POSTS, BASEPLATES, BOLTS, ETC.) SHALL BE PAINTED STRUCTURAL STEEL MEETING THE PROVISIONS OF MASSDOT STANDARD SPECIFICATIONS SECTION 960. THE CONTRACTOR SHALL PAINT THE STEEL RAILINGS ON-SITE. THE RAILINGS SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF CONSTRUCTION.

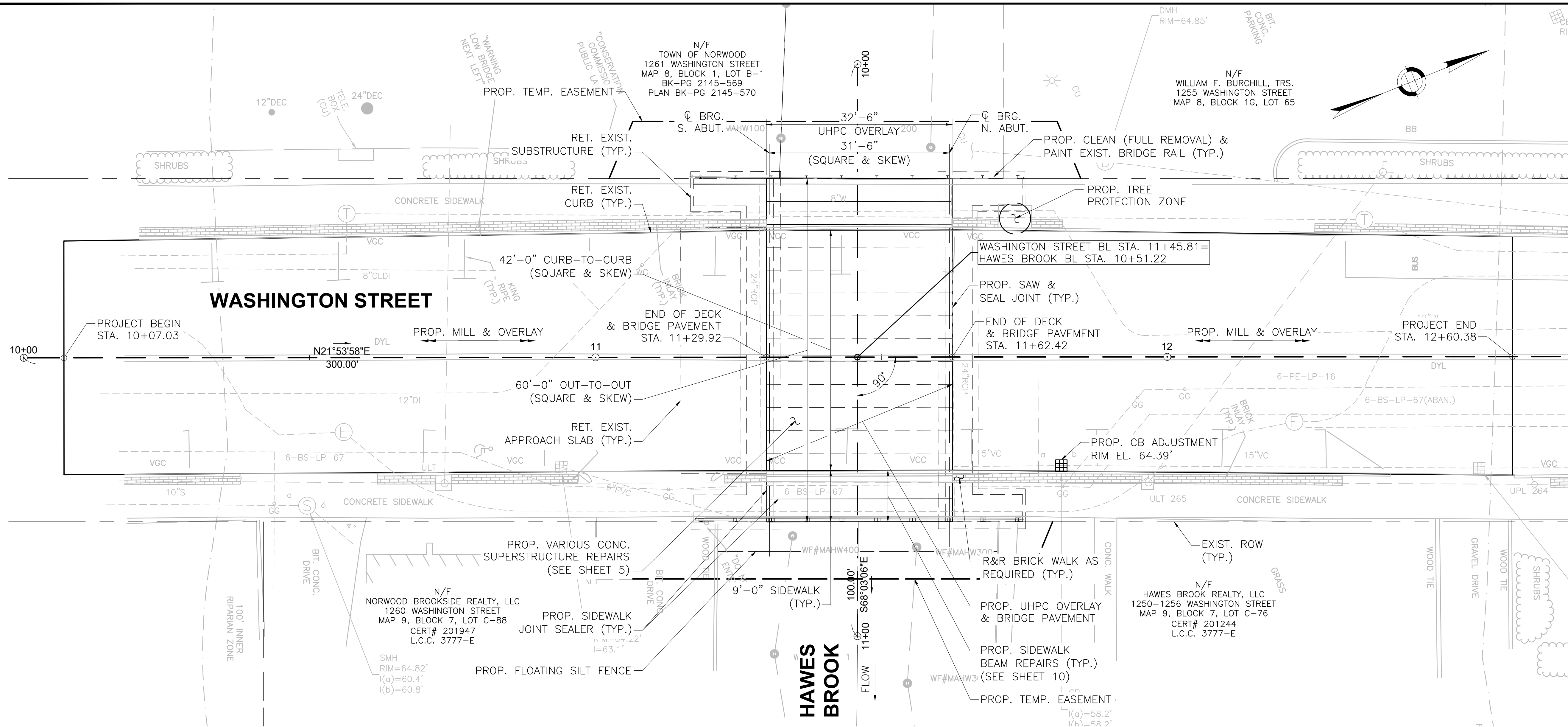
ALL STEEL SHALL BE PAINTED USING A THREE-COAT SYSTEM WITH MATERIALS ACCEPTED BY THE NORTHEAST PROTECTIVE COATING COMMITTEE (NEPCOAT). THE FINISH COLOR SHALL BE DETERMINED AFTER CONTRACT AWARD AND SHALL BE COORDINATED WITH THE TOWN OF NORWOOD.

COMMONWEALTH OF MASSACHUSETTS	
MassDOT, Highway Division	
APPROVED UNDER PROVISIONS OF	
MASS. GEN. LAWS CH 85 S 35	
	1/31/2024
DISTRICT 5 BRIDGE ENGINEER	DATE

**NORWOOD
WASHINGTON STREET OVER HAWES BROOK**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA		3	17
PROJECT FILE NO.		T1304	

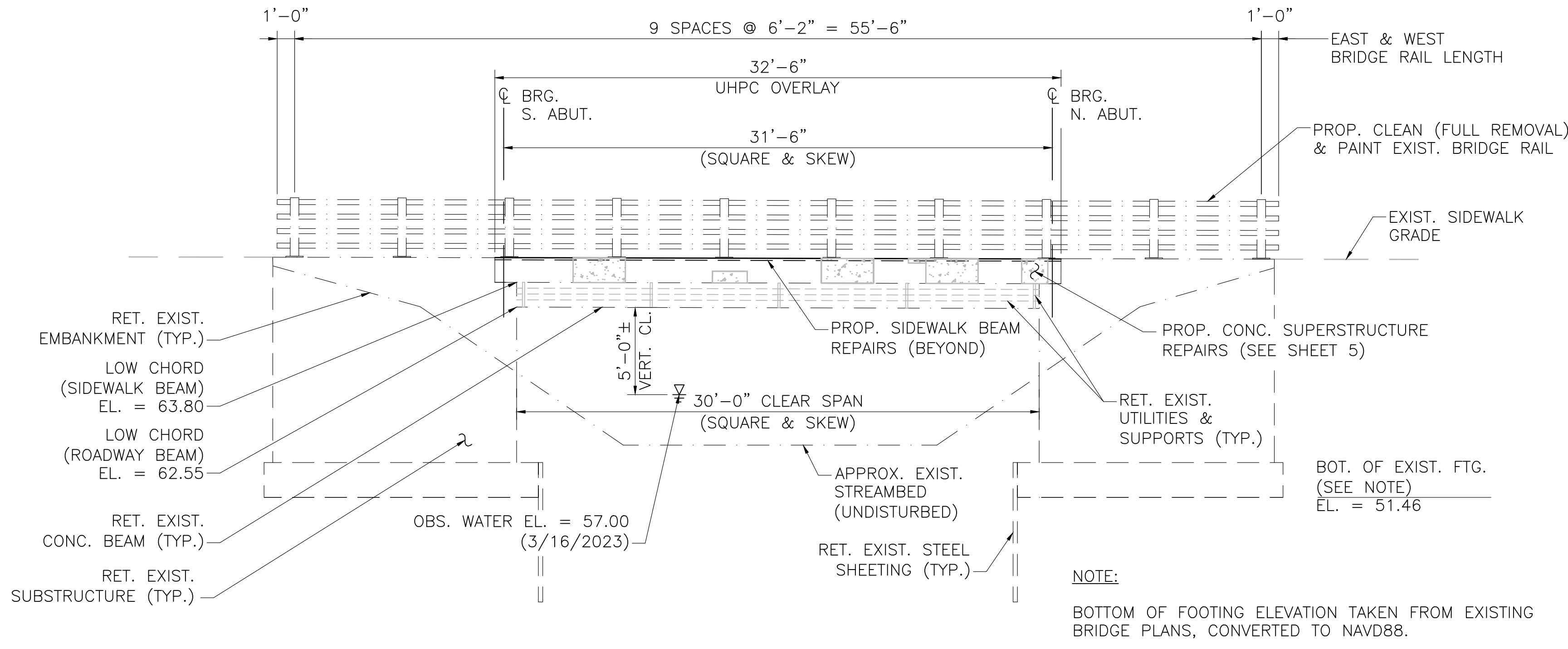
PLAN AND ELEVATION



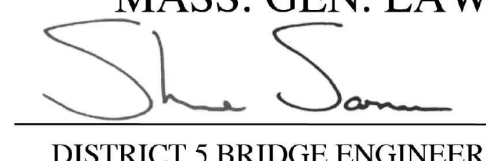
HAWES BROOK

PLAN
SCALE: 1" = 10'

- NOTES:**
- REFER TO GRADING PLANS AND TEMPORARY TRAFFIC CONTROL PLANS FOR ADDITIONAL INFORMATION. TWO LANES OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT CONSTRUCTION.
 - EXISTING BRIDGE GEOMETRY, DIMENSIONS, ELEVATIONS, ETC. ARE TAKEN FROM THE RECORD BRIDGE PLANS, DATED 1966. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS PRIOR TO ORDERING MATERIALS.
 - ALL EXISTING UTILITIES SHALL REMAIN IN PLACE AND ACTIVE THROUGHOUT THE DURATION OF CONSTRUCTION.



EAST ELEVATION (WEST SIMILAR)
SCALE: 1" = 5'

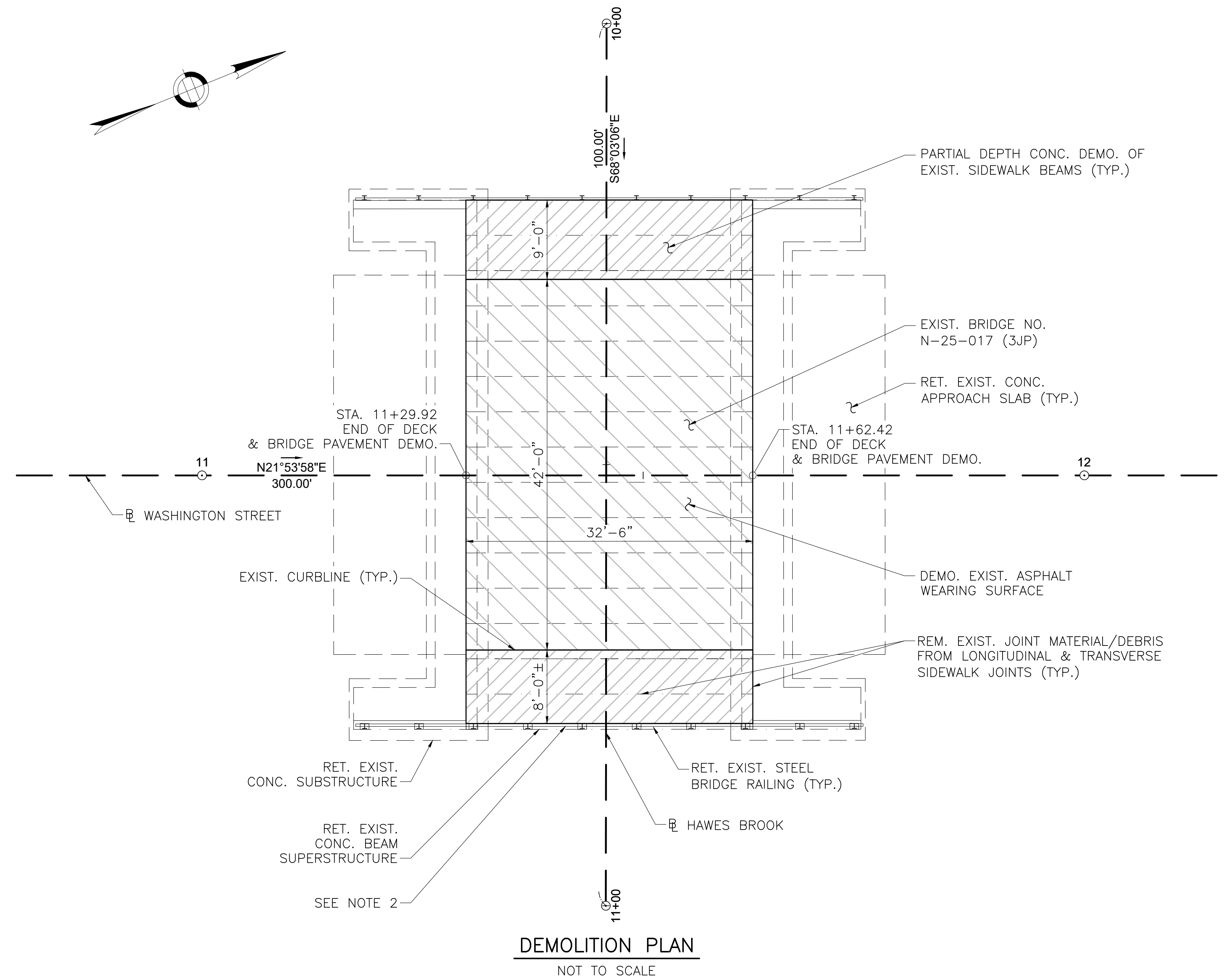
COMMONWEALTH OF MASSACHUSETTS
MassDOT, Highway Division
 APPROVED UNDER PROVISIONS OF
 MASS. GEN. LAWS CH 85 S 35

 DISTRICT 5 BRIDGE ENGINEER 1/31/2024 DATE

31 January 2024 3 PLAN AND ELEVATION.DWG Plotted on 28-Mar-2024 8:49 AM

NORWOOD
WASHINGTON STREET OVER HAWES BROOK

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	4	17
PROJECT FILE NO.		T1304	

DEMOLITION LIMITS

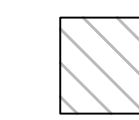
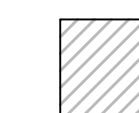


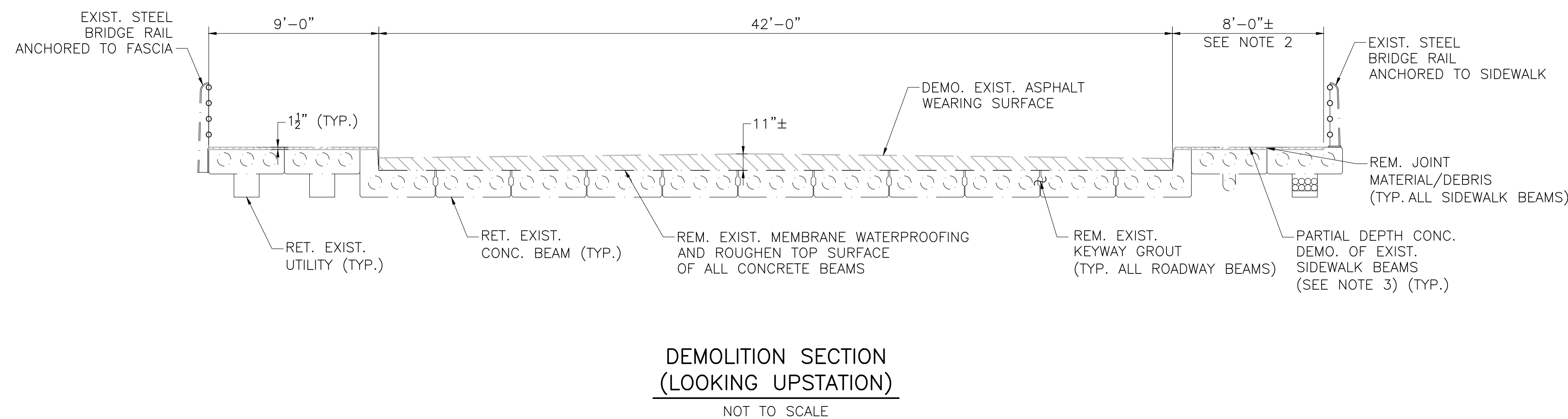
DEMOLITION PLAN
NOT TO SCALE

DEMOLITION NOTES:

- EXISTING BRIDGE GEOMETRY SHOWN THROUGHOUT THIS SHEET IS BASED ON EXISTING BRIDGE PLANS AND FIELD OBSERVATIONS. CONTRACTOR SHALL VERIFY AS-BUILT BRIDGE DIMENSIONS PRIOR TO DEMOLITION.
- EAST SIDEWALK DEMOLITION SHALL TERMINATE AT THE FRONT EDGE OF THE GUARDRAIL BASEPLATE.
- CONTRACTOR SHALL TAKE CARE NOT TO EXPOSE PRESTRESSING STRANDS DURING CONCRETE BEAM EXCAVATION. ANY DAMAGE TO PRESTRESSING STRANDS DUE TO DEMOLITION OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- BRIDGE DEMOLITION SHALL BE PERFORMED IN PHASES THAT CORRESPOND WITH THE TEMPORARY TRAFFIC CONTROL PLANS. DEMOLITION SHALL NOT BEGIN UNTIL EXISTING UTILITIES ARE LOCATED AND PROTECTED FROM DAMAGE, TEMPORARY TRAFFIC SAFETY FEATURES ARE IN PLACE, AND TEMPORARY TRAFFIC SIGNAGE IS APPROVED BY THE ENGINEER.
- TEMPORARY SHIELDING SHALL BE INSTALLED BENEATH THE BRIDGE PRIOR TO BEGINNING ANY CONCRETE REPAIRS.

LEGEND:

-  LIMITS OF BRIDGE PAVEMENT DEMO.
-  LIMITS OF CONC. SIDEWALK BEAM DEMO.



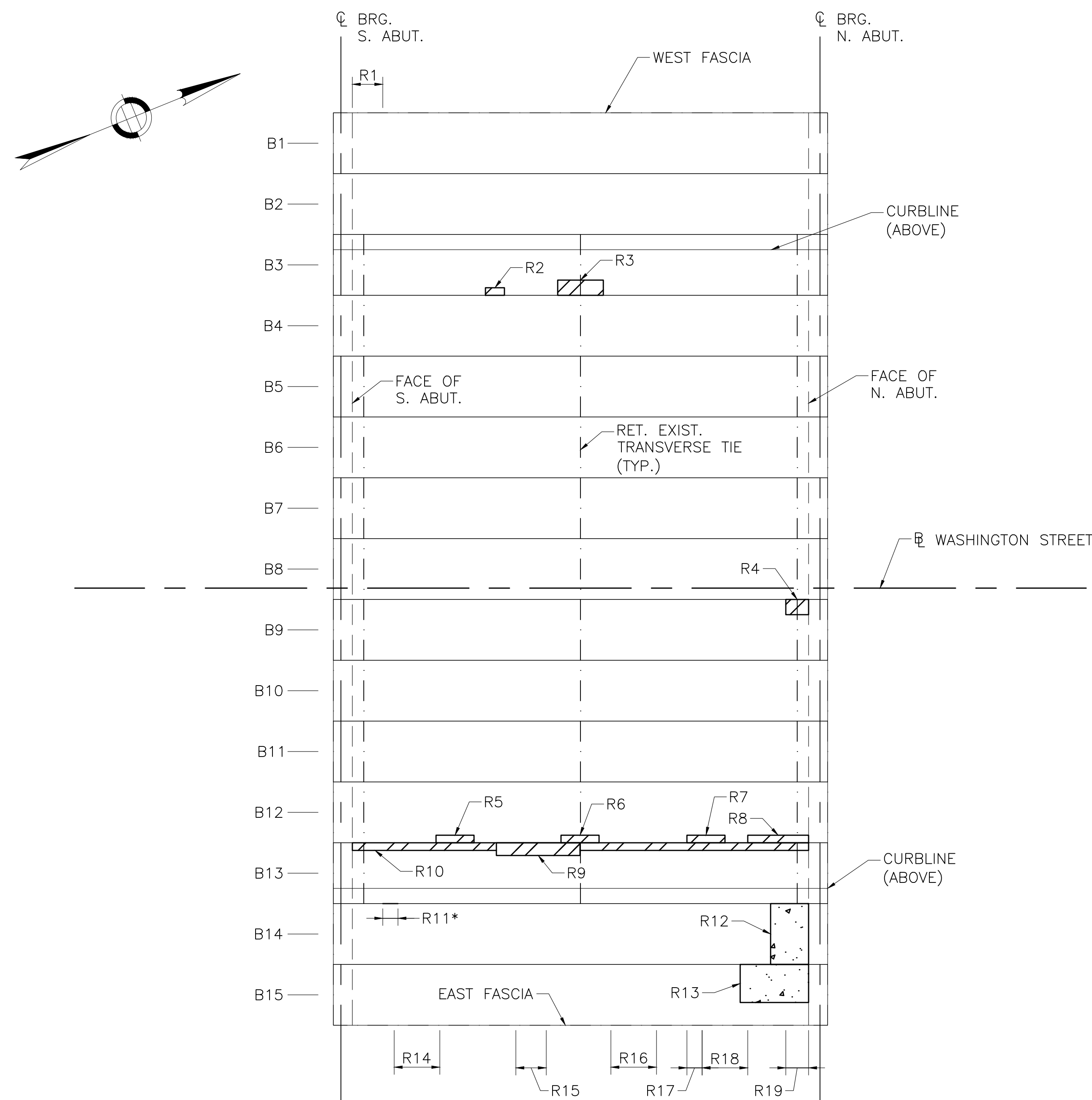
DEMOLITION SECTION
(LOOKING UPSTATION)
NOT TO SCALE

COMMONWEALTH OF MASSACHUSETTS
MassDOT, Highway Division
APPROVED UNDER PROVISIONS OF
MASS. GEN. LAWS CH 85 S 35
She Sam 1/31/2024
DISTRICT 5 BRIDGE ENGINEER DATE

NORWOOD
WASHINGTON STREET OVER HAWES BROOK

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	5	17
PROJECT FILE NO.		T1304	

SUPERSTRUCTURE REPAIR SCHEDULE



- NOTES:
- INTERNAL BEAM VOIDS NOT SHOWN FOR CLARITY.
 - DETERIORATION SHOWN ARE ALL LOCATED ON THE UNDERSIDE OF THE SUPERSTRUCTURE UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL TAKE CARE NOT TO EXPOSE TRANSVERSE TIES DURING CONCRETE BEAM EXCAVATION. ANY DAMAGE TO TRANSVERSE TIES DUE TO DEMOLITION OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

SUPERSTRUCTURE REPAIR PLAN

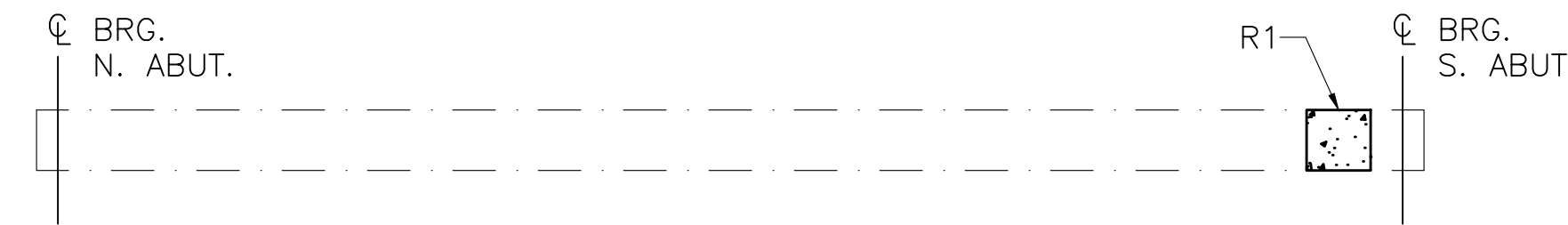
NOT TO SCALE

LEGEND:

- DELAMINATION
- CONCRETE CRACKING
- SPALL
- SPALL W/ EXPOSED REBAR

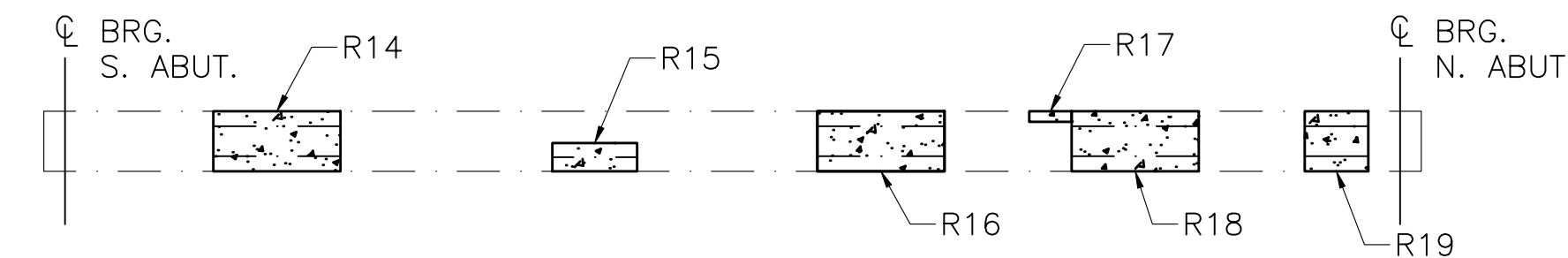
NOTES:

- BRIDGE ORIENTATION AND LABELING IS PER THE MASSDOT ROUTINE INSPECTION REPORT DATED 06-10-2021.
- THE DETERIORATED AREAS INDICATED HEREIN ARE BASED ON AVAILABLE INFORMATION AND ARE NOT INTENDED TO BE ALL INCLUSIVE, RATHER A REPRESENTATION OF THE REPAIRS TO BE PERFORMED. THE ENGINEER SHALL SOUND ALL CONCRETE SURFACES IN THE FIELD AND MARK OUT ALL REPAIR LOCATIONS BEFORE THE CONTRACTOR COMMENCES ANY REPAIRS.
- ALL DETERIORATED BEAM CONCRETE SHALL BE EXCAVATED TO THE LIMITS SPECIFIED ON SHEET 10.
- EXISTING BRIDGE PAVEMENT OVER BEAMS 3-13 OBSTRUCTS VIEW OF THE TOP SURFACE CONDITIONS. ENGINEER SHALL SOUND THE TOP SURFACE OF THE BEAMS TO IDENTIFY REPAIR LOCATIONS ONCE BRIDGE PAVEMENT DEMOLITION IS COMPLETE.



BEAM 1 REPAIR ELEVATION
(LOOKING EAST)

NOT TO SCALE



BEAM 15 REPAIR ELEVATION
(LOOKING WEST)

NOT TO SCALE

SUPERSTRUCTURE REPAIR SCHEDULE						
REPAIR NO.	BEAM NO.	DEFICIENCY	ASSUMED REPAIR TYPE	LENGTH (IN.)	WIDTH (IN.)	AREA (SF)
R1	B1	SPALL W/ EXPOSED REBAR	FULL DEPTH	24	17	3.00
R2	B3	DELAMINATION	PARTIAL DEPTH	15	6	1.00
R3	B3	DELAMINATION	PARTIAL DEPTH	36	12	3.00
R4	B9	DELAMINATION	PARTIAL DEPTH	18	12	2.00
R5	B12	DELAMINATION	PARTIAL DEPTH	30	6	2.00
R6	B12	DELAMINATION	PARTIAL DEPTH	30	6	2.00
R7	B12	DELAMINATION	PARTIAL DEPTH	30	6	2.00
R8	B12	DELAMINATION	PARTIAL DEPTH	48	6	2.00
R9	B13	DELAMINATION	PARTIAL DEPTH	66	10	5.00
R10	B13	DELAMINATION	PARTIAL DEPTH	FL	6	15.00
R11*	B13	SPALL	PARTIAL DEPTH	12	4	1.00
R12	B14	SPALL	PARTIAL DEPTH	30	FW	10.00
R13	B15	SPALL	PARTIAL DEPTH	54	30	12.00
R14	B15	SPALL W/ EXPOSED REBAR	FULL DEPTH	36	FH	12.00
R15	B15	SPALL W/ EXPOSED REBAR	FULL DEPTH	24	8	2.00
R16	B15	SPALL W/ EXPOSED REBAR	FULL DEPTH	36	FH	12.00
R17	B15	SPALL	PARTIAL DEPTH	18	4	1.00
R18	B15	SPALL W/ EXPOSED REBAR	FULL DEPTH	36	FH	12.00
R19	B15	SPALL W/ EXPOSED REBAR	PARTIAL DEPTH	18	12	2.00

*SPALL LOCATED ON THE EXPOSED VERTICAL FACE OF B13

REPAIR SUMMARY		
DEFICIENCY	QUANTITY	
DELAMINATION	34.00	SF
SPALL	24.00	SF
SPALL W/ EXPOSED REBAR	43.00	SF
ASSUMED TOPSIDE REPAIRS	60.00	SF

NOTE: TOPSIDE REPAIRS ASSUME PARTIAL DEPTH ONLY

COMMONWEALTH OF MASSACHUSETTS

MassDOT, Highway Division

APPROVED UNDER PROVISIONS OF

MASS. GEN. LAWS CH 85 S 35

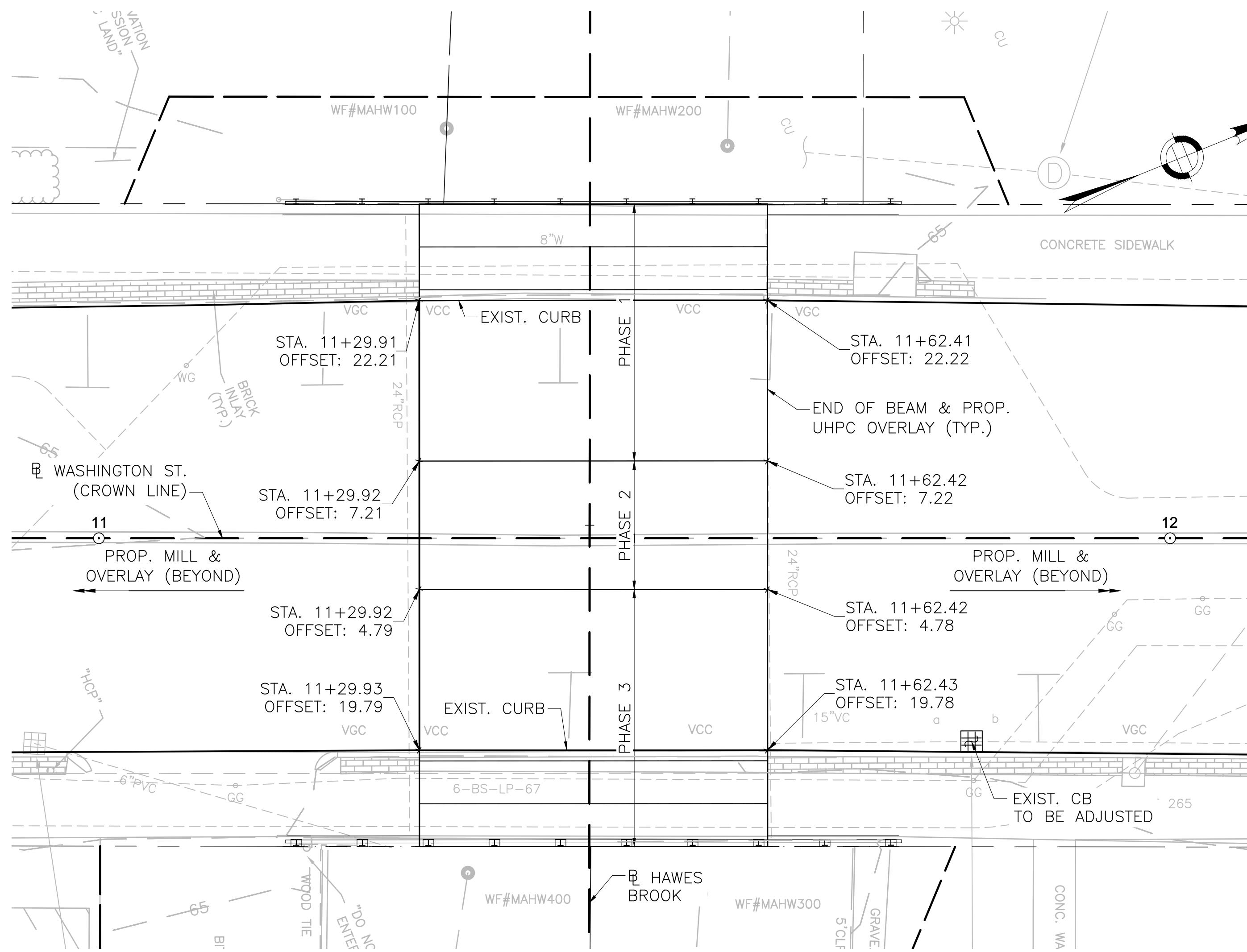
She Sam 1/31/2024

DISTRICT 5 BRIDGE ENGINEER DATE

NORWOOD
WASHINGTON STREET OVER HAWES BROOK

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	6	17
PROJECT FILE NO.		T1304	

GRADING & CONSTRUCTION PLAN (1 OF 2)



CONSTRUCTION PLAN

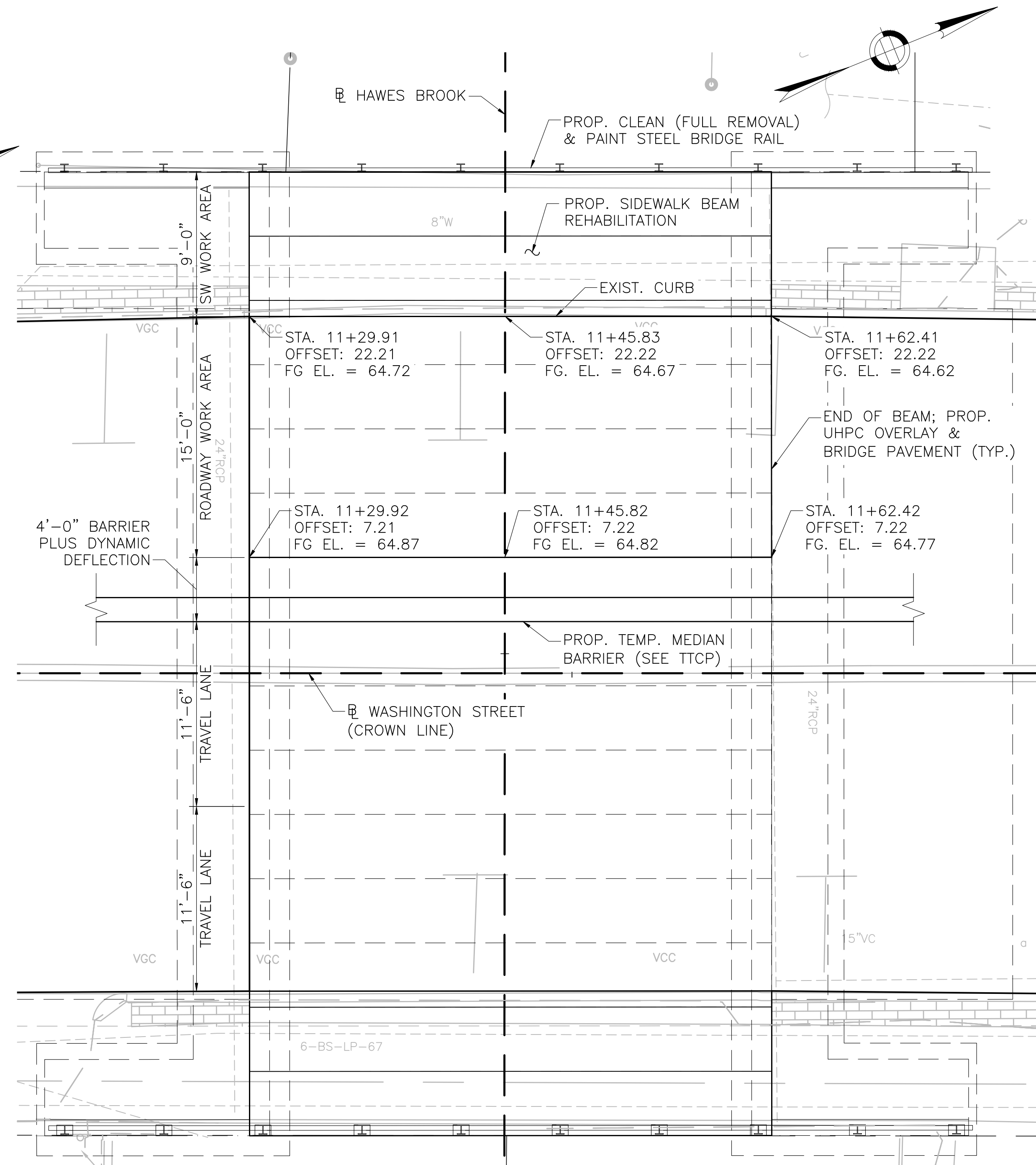
SCALE: 1" = 8'

CONSTRUCTION NOTES:

1. WORK FOR EACH PHASE SHALL NOT COMMENCE UNTIL TRAFFIC CONTROL DEVICES ARE COMPLETED IN PLACE.
2. NORTH AND SOUTH APPROACH WORK SHALL TAKE PLACE DURING PHASES 4 AND 5, SEE TTCP SHEET 15.
3. SUPERSTRUCTURE REPAIRS SHALL TAKE PLACE CONCURRENTLY WITH TOPSIDE WORK.
4. REFER TO TEMPORARY TRAFFIC CONTROL SHEETS FOR ADDITIONAL INFORMATION ON CONSTRUCTION PHASING.

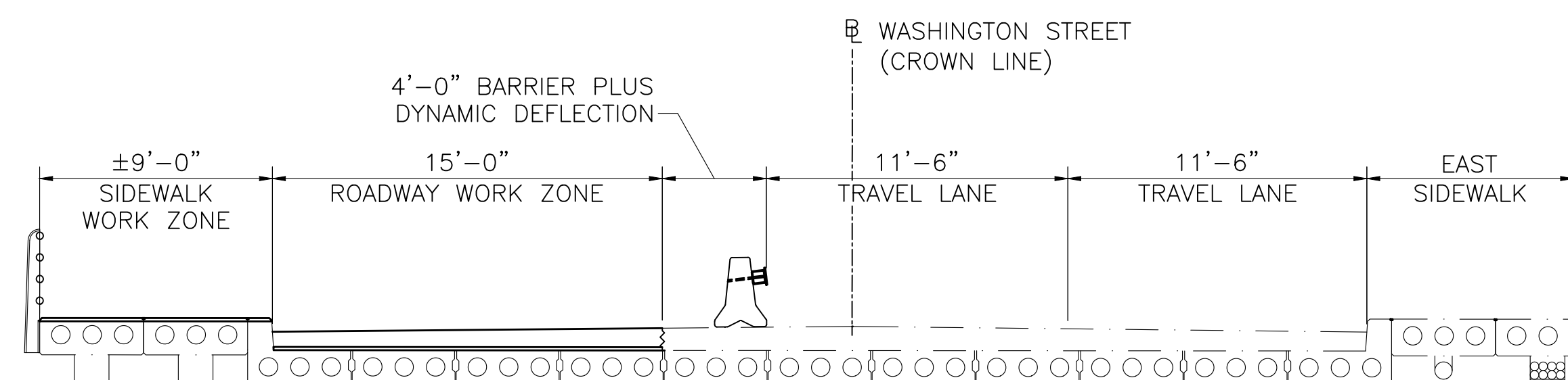
CONSTRUCTION PHASE NOTES:

- PHASE 1: WEST SIDEWALK CLOSURE FOR SIDEWALK SURFACE REHABILITATION
WEST BRIDGE RAIL CLEAN & PAINT
SOUTHBOUND CLOSURE FOR UHPC OVERLAY AND BRIDGE PAVEMENT
- PHASE 2: CENTER CLOSURE FOR UHPC OVERLAY AND BRIDGE PAVEMENT
- PHASE 3: EAST SIDEWALK CLOSURE FOR SIDEWALK SURFACE REHABILITATION
EAST BRIDGE RAIL CLEAN & PAINT
NORTHBOUND ROADWAY CLOSURE FOR UHPC OVERLAY AND BRIDGE PAVEMENT



PHASE 1 GRADING PLAN

SCALE: 1" = 5'



PHASE 1 GRADING PLAN

SCALE: 1" = 5'

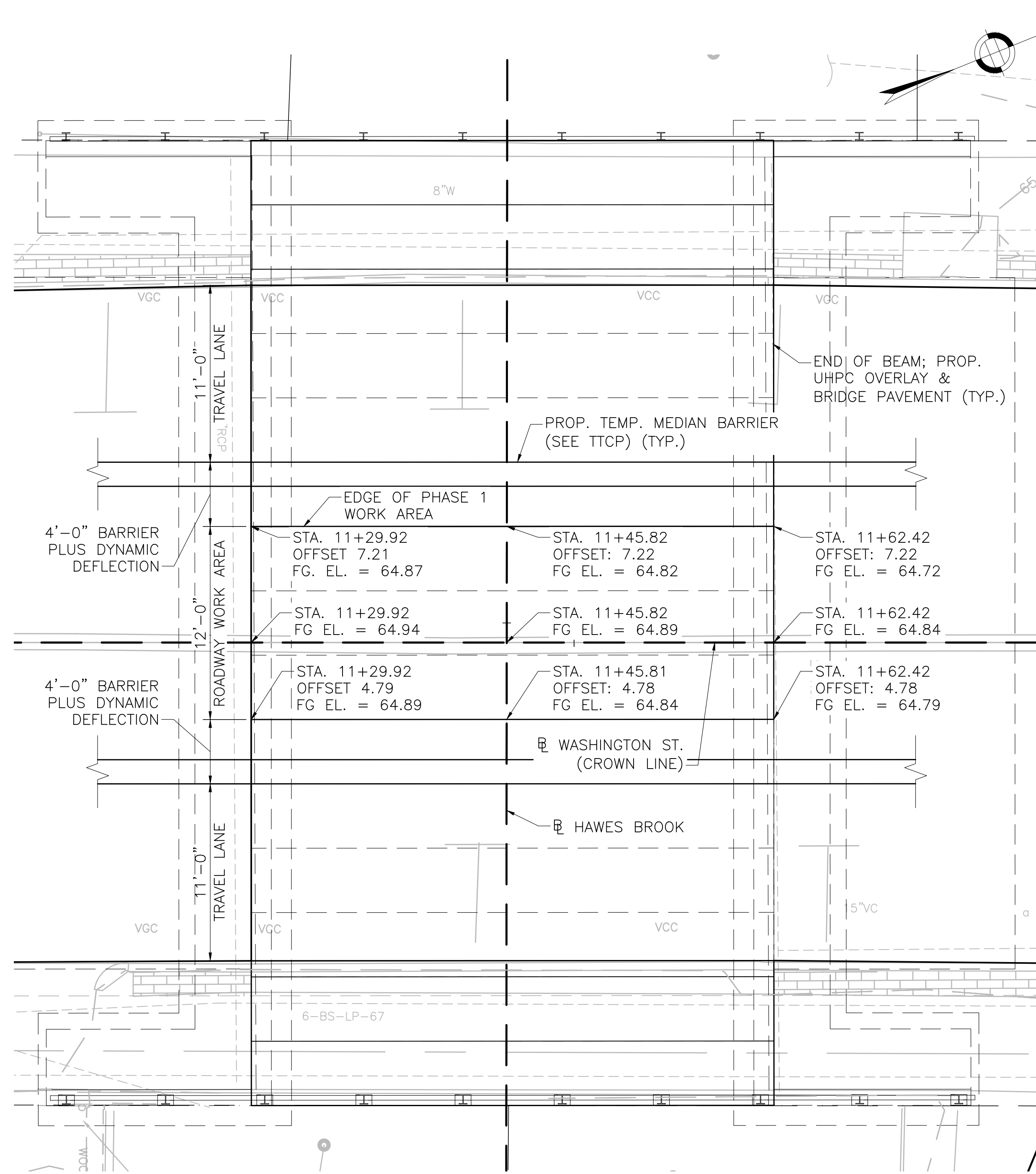
COMMONWEALTH OF MASSACHUSETTS
MassDOT, Highway Division
APPROVED UNDER PROVISIONS OF
MASS. GEN. LAWS CH 85 S 35

She Sam
DISTRICT 5 BRIDGE ENGINEER DATE 1/31/2024

NORWOOD
WASHINGTON STREET OVER HAWES BROOK

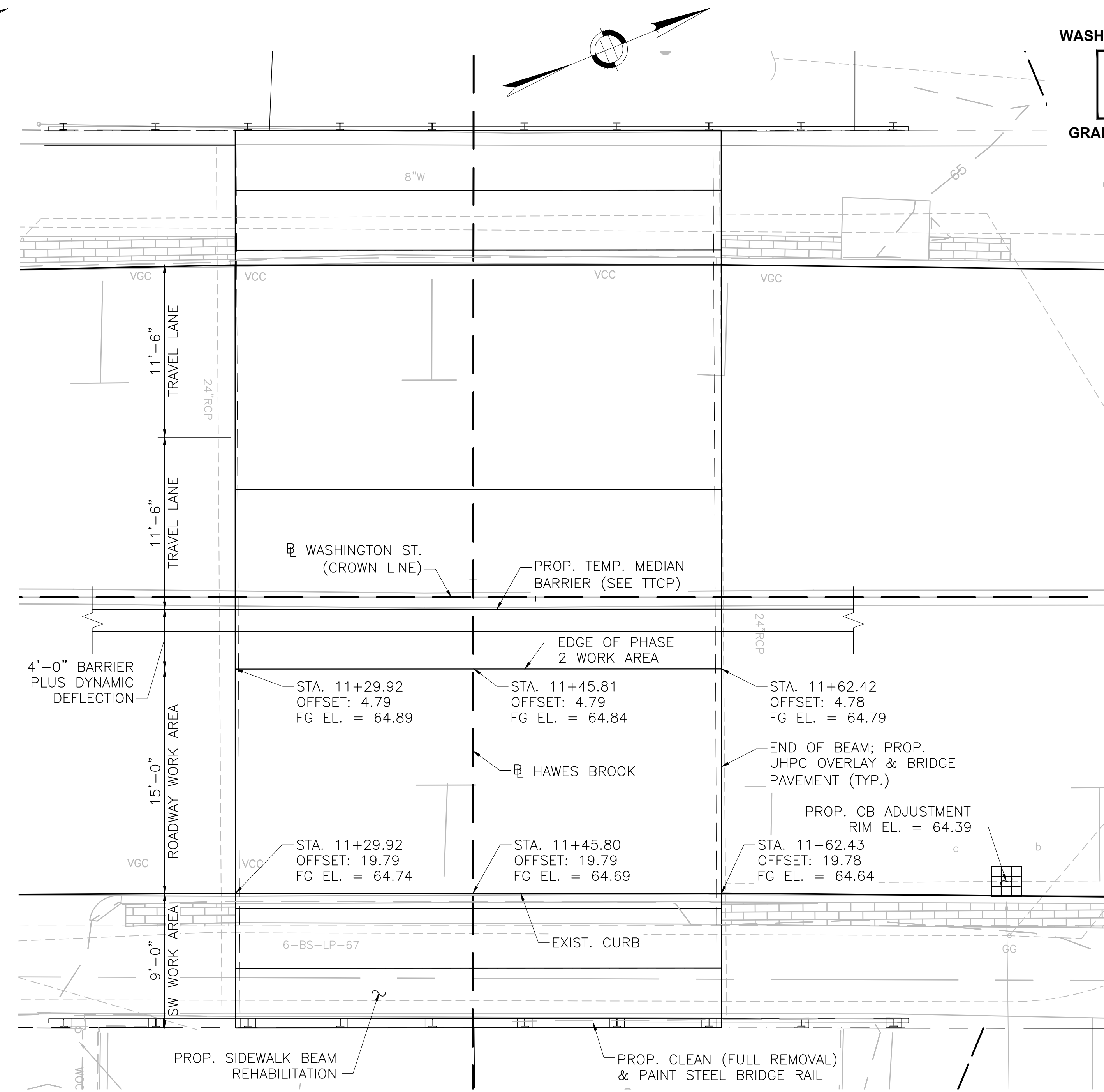
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	7	17
PROJECT FILE NO.		T1304	

GRADING & CONSTRUCTION PLAN (2 OF 2)



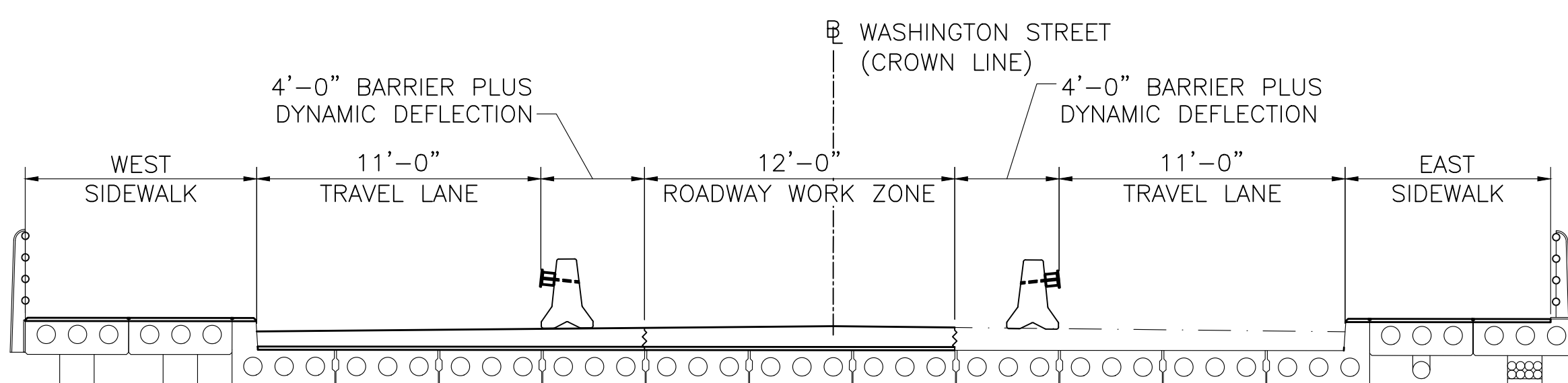
PHASE 2 GRADING PLAN

SCALE: 1" = 5'



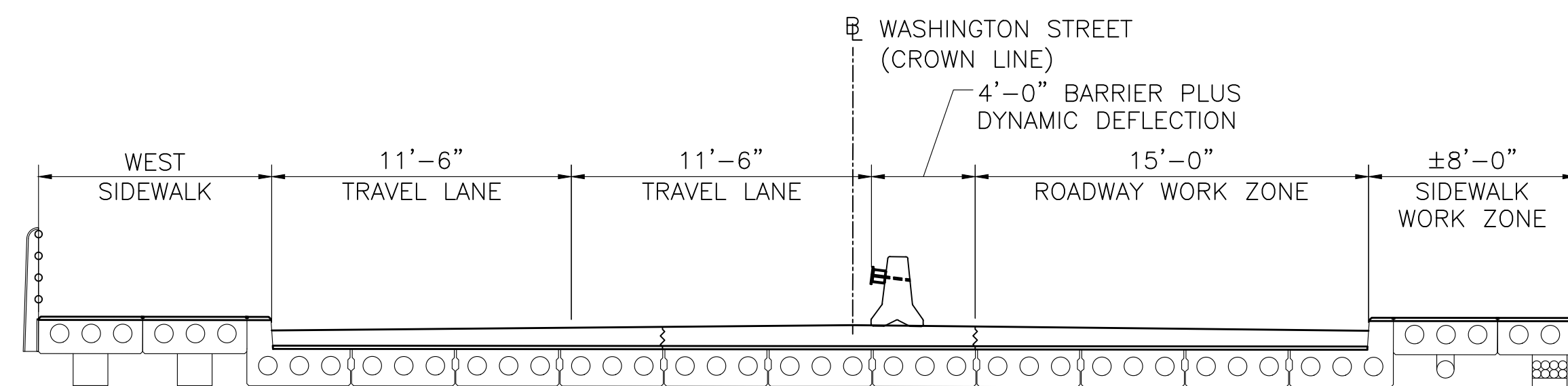
PHASE 3 GRADING PLAN

SCALE: 1" = 5'



PHASE 2 CROSS SECTION

SCALE: 1" = 5'



PHASE 3 CROSS SECTION

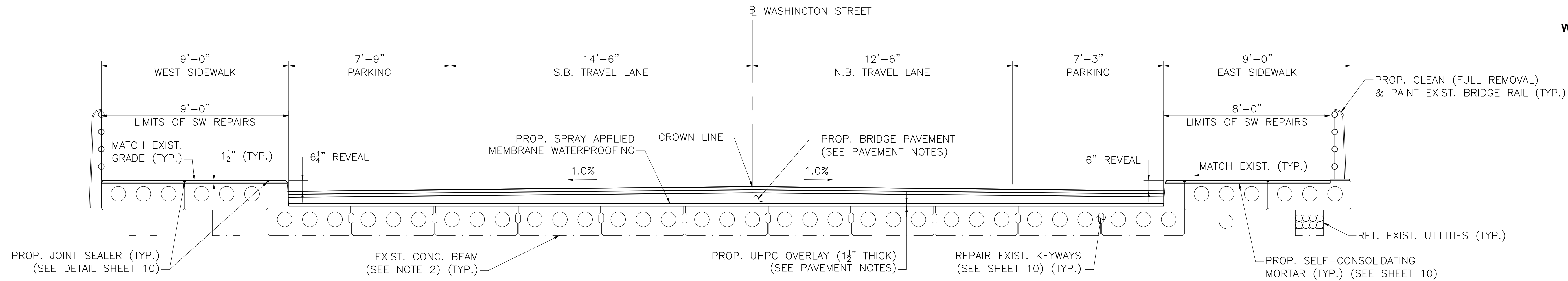
SCALE: 1" = 5'

COMMONWEALTH OF MASSACHUSETTS
MassDOT, Highway Division
APPROVED UNDER PROVISIONS OF
MASS. GEN. LAWS CH 85 S 35
She Sam
DISTRICT 5 BRIDGE ENGINEER DATE 1/31/2024

**NORWOOD
WASHINGTON STREET OVER HAWES BROOK**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	8	17
PROJECT FILE NO.		T1304	

CONSTRUCTION DETAILS (1 OF 2)

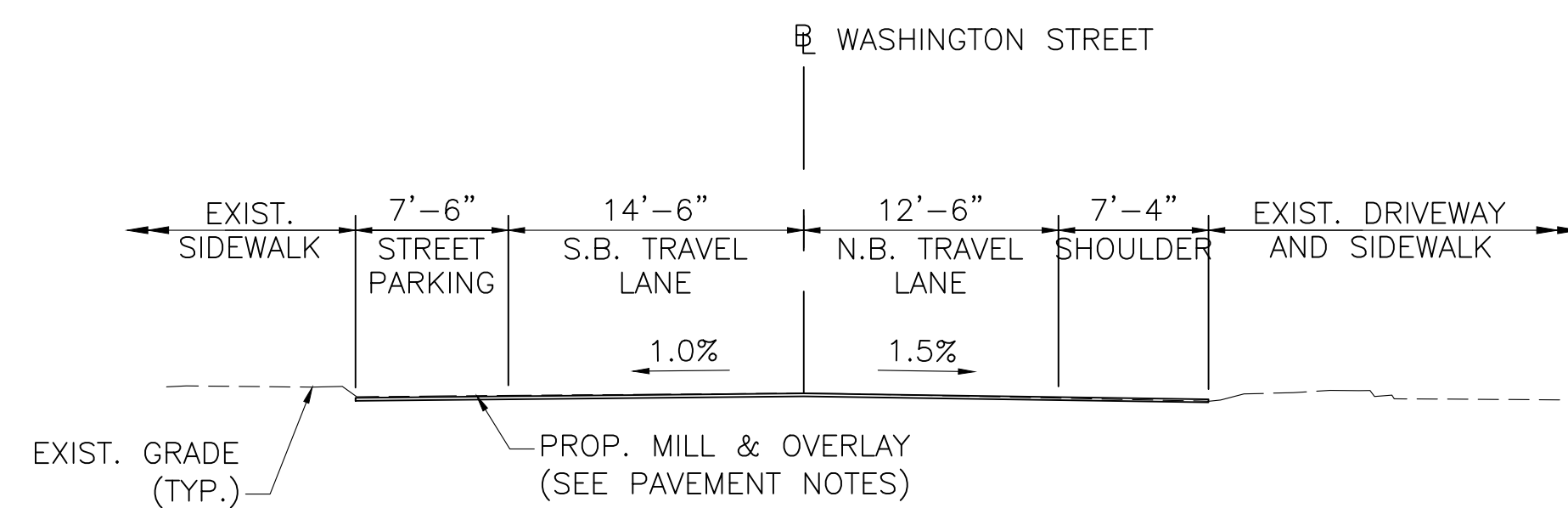


NOTES:

- EXISTING BRIDGE GEOMETRY SHOWN THROUGHOUT THIS SHEET IS BASED ON EXISTING BRIDGE PLANS AND FIELD OBSERVATIONS. THE CONTRACTOR SHALL VERIFY AS-BUILT BRIDGE DIMENSIONS PRIOR TO DEMOLITION.
- TOP SURFACE OF ALL CONCRETE BEAMS SHALL BE ROUGHENED AND SOUNDED FOR DEFICIENCIES PRIOR TO PLACEMENT OF PROPOSED OVERLAYS. REFER TO DEMOLITION DETAILS ON SHEET 4.

TRANSVERSE SECTION

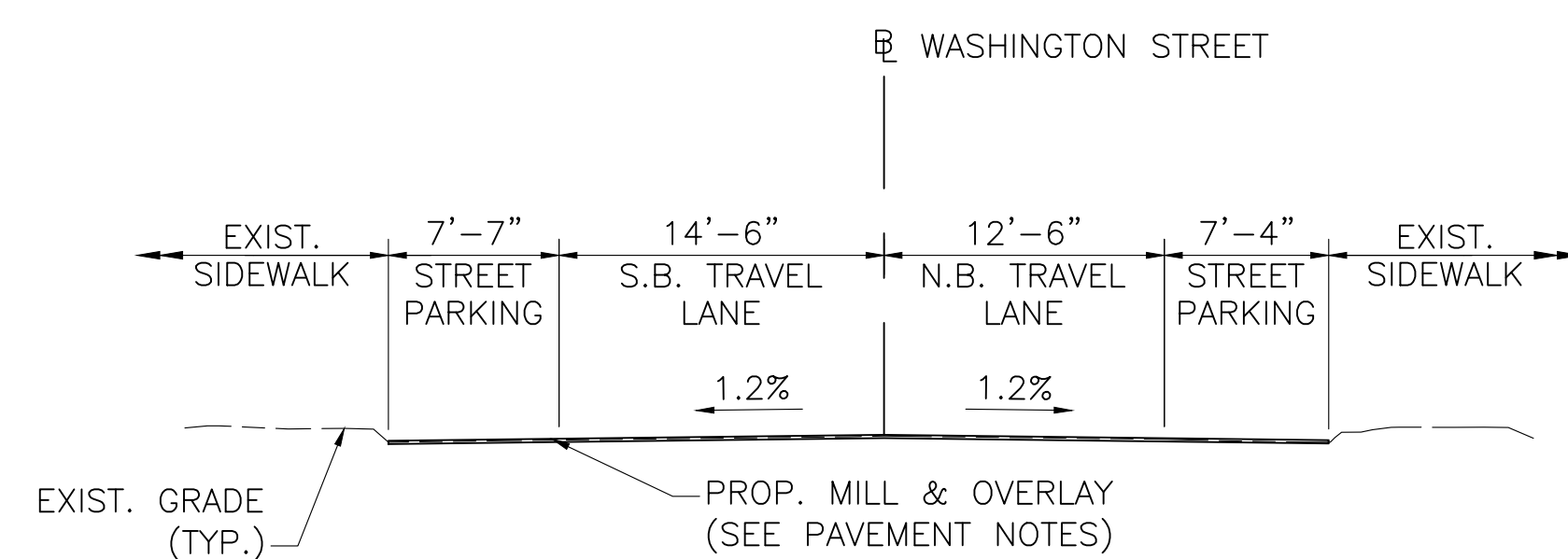
SCALE: 3/8" = 1'-0"



NOTE:
SOUTH ROADWAY APPROACH SECTION TAKEN AT STATION 11+20.00 LOOKING UPSTATION.

SOUTH ROADWAY APPROACH SECTION

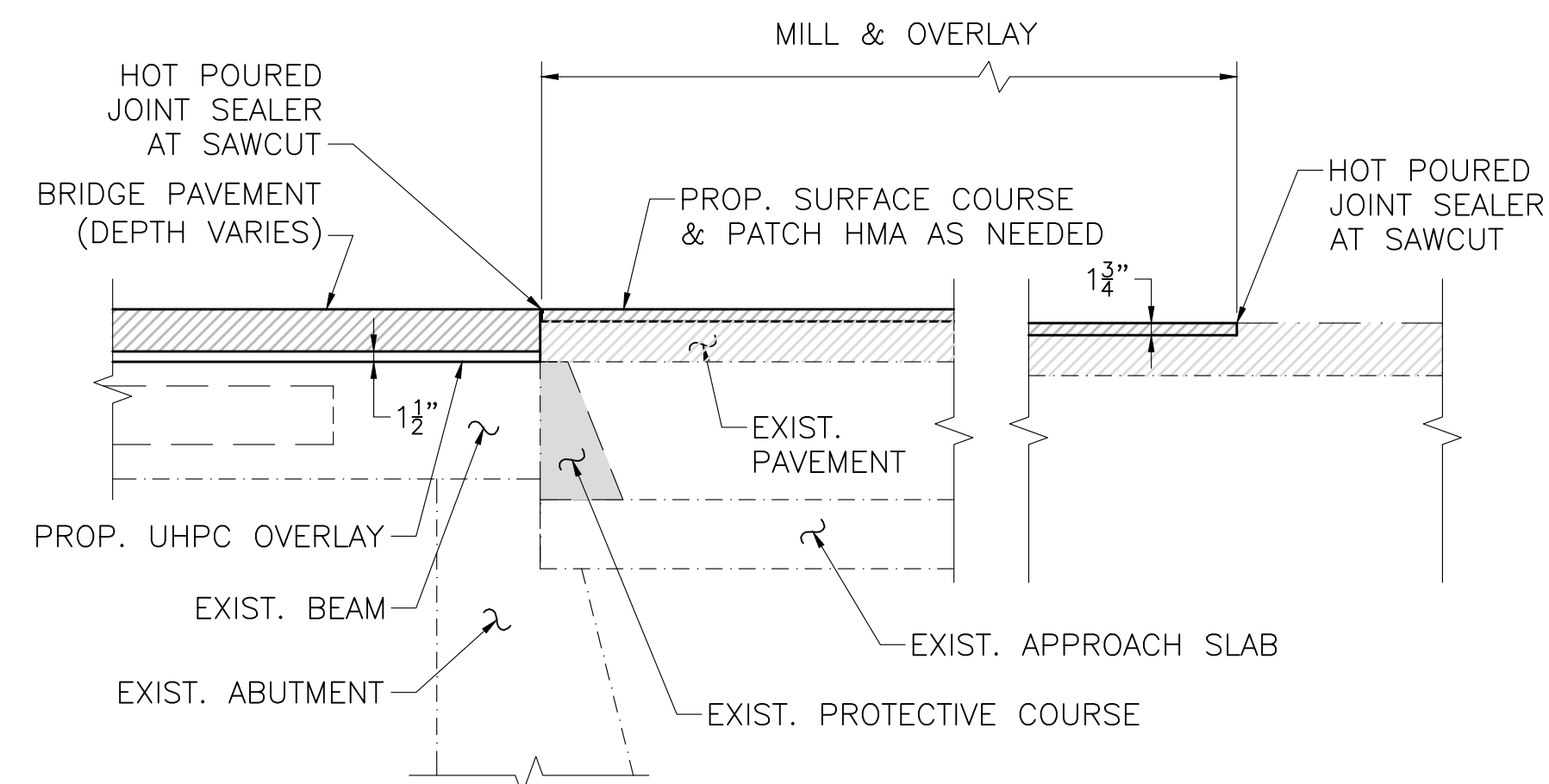
NOT TO SCALE



NOTE:
NORTH ROADWAY APPROACH SECTION TAKEN AT STATION 11+70.00 LOOKING UPSTATION.

NORTH ROADWAY APPROACH SECTION

NOT TO SCALE

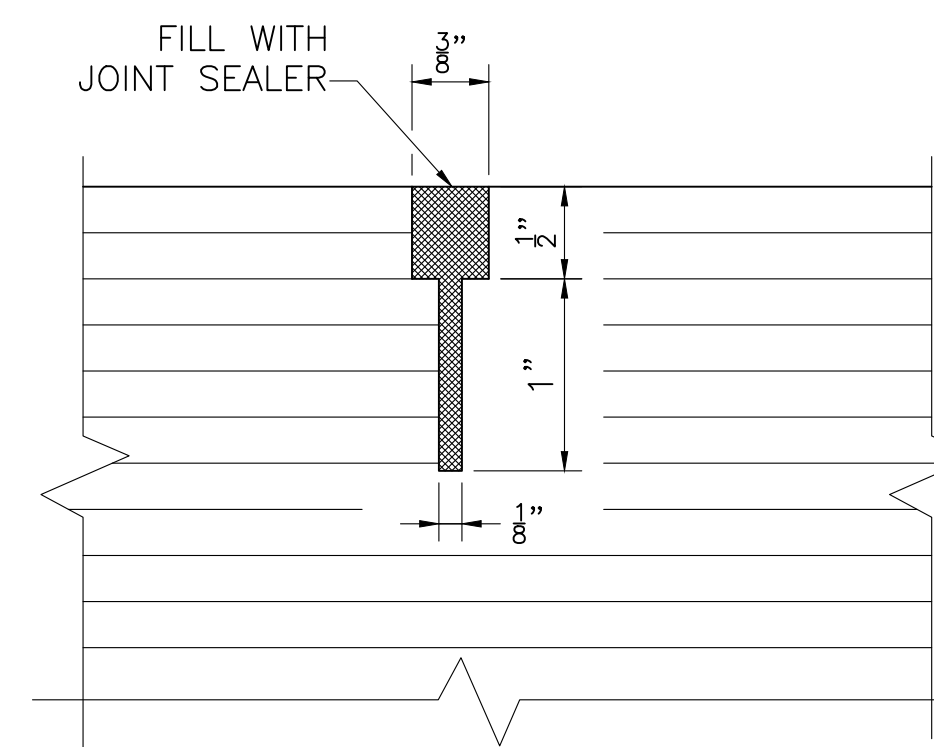


NOTE:

SEE LIMITS OF PAVEMENT NOTES FOR LENGTH OF PAVEMENT MILLING & OVERLAY.

END OF DECK DETAIL

SCALE: 1 1/2" = 1'-0"



PAVEMENT SAWCUT DETAIL

NOT TO SCALE

LIMITS OF PAVEMENT:

PROPOSED BRIDGE PAVEMENT
STA 11+29.92 TO STA. 11+62.42

PROPOSED HMA MILLING AND OVERLAY
STA. 10+07.03 TO STA. 11+29.92
STA. 11+62.42 TO STA. 12+60.38

PAVEMENT NOTES:

PROPOSED BRIDGE PAVEMENT

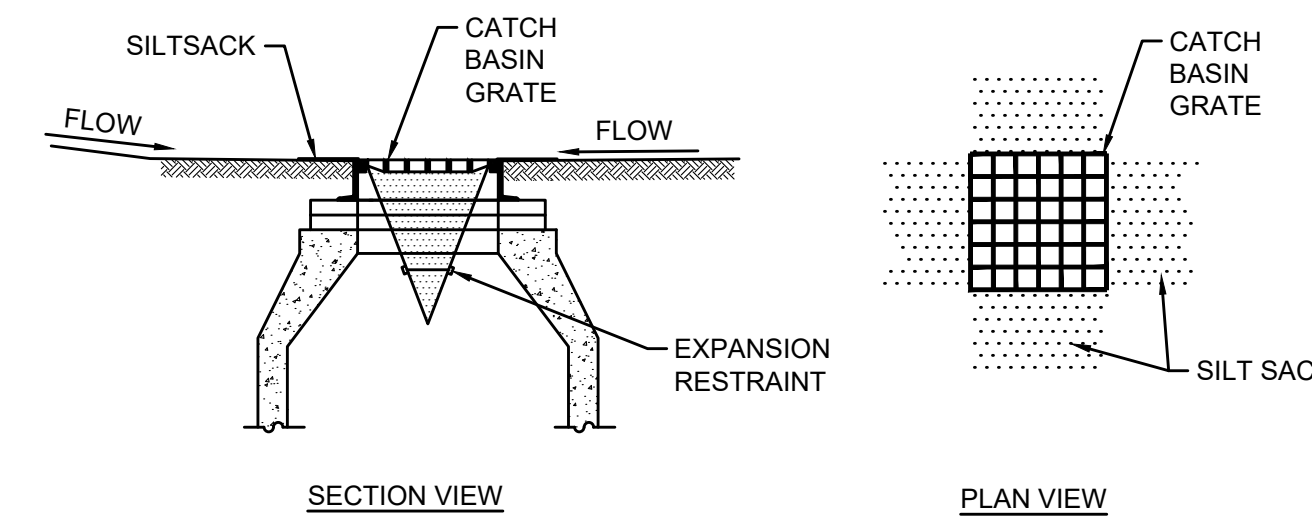
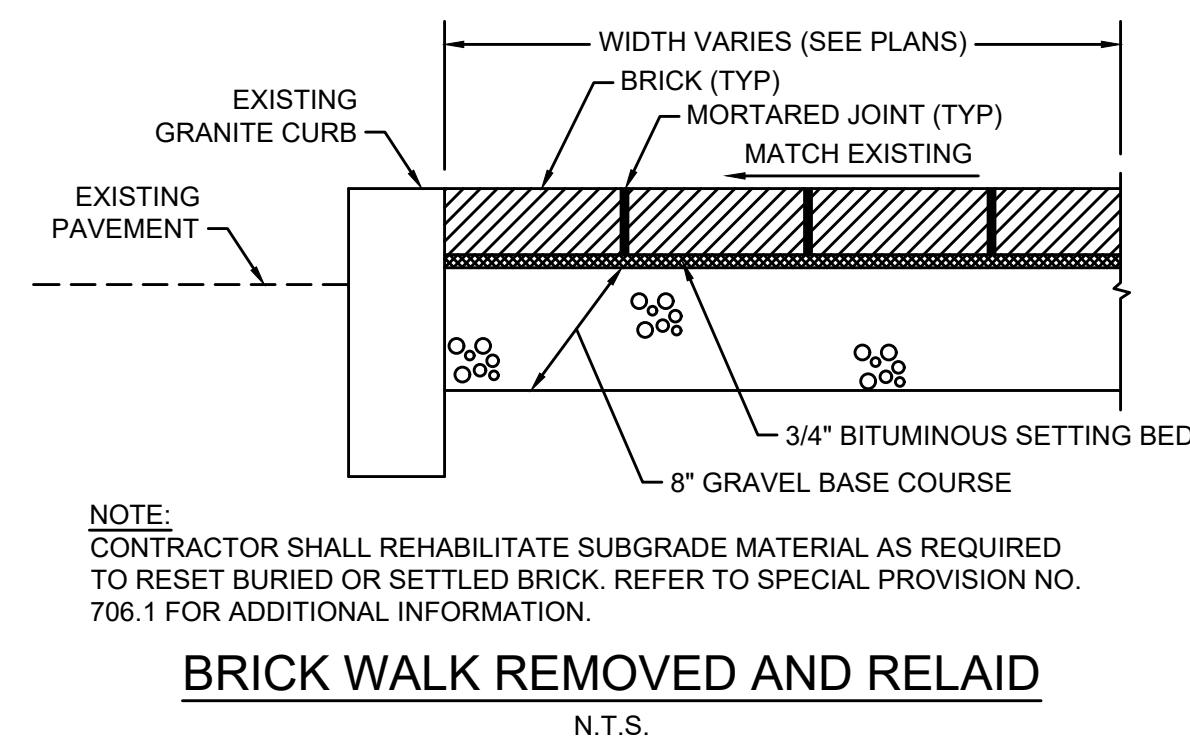
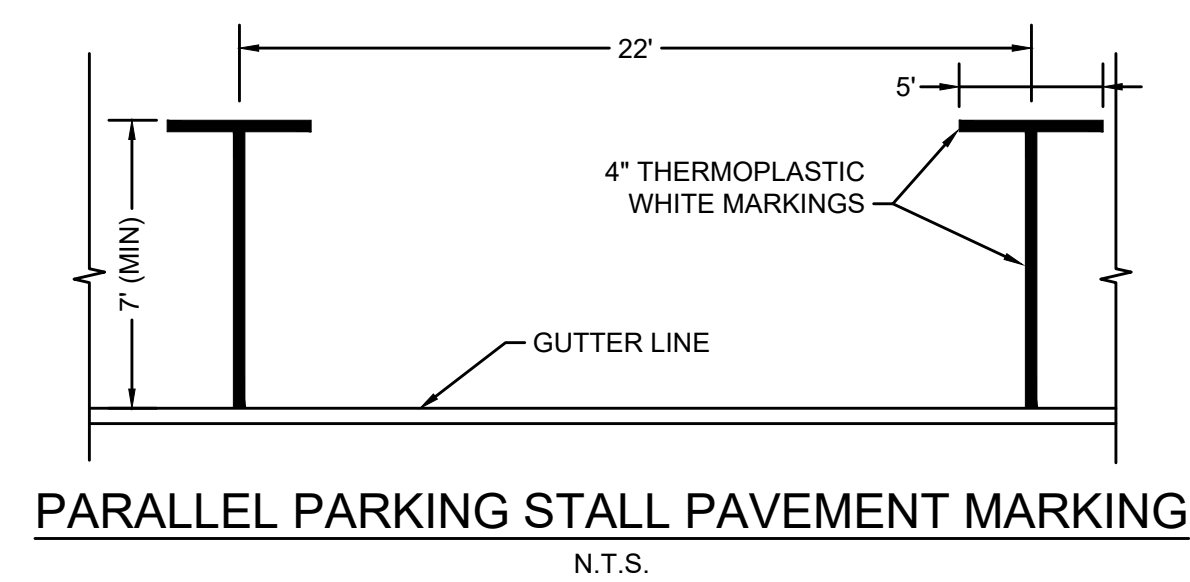
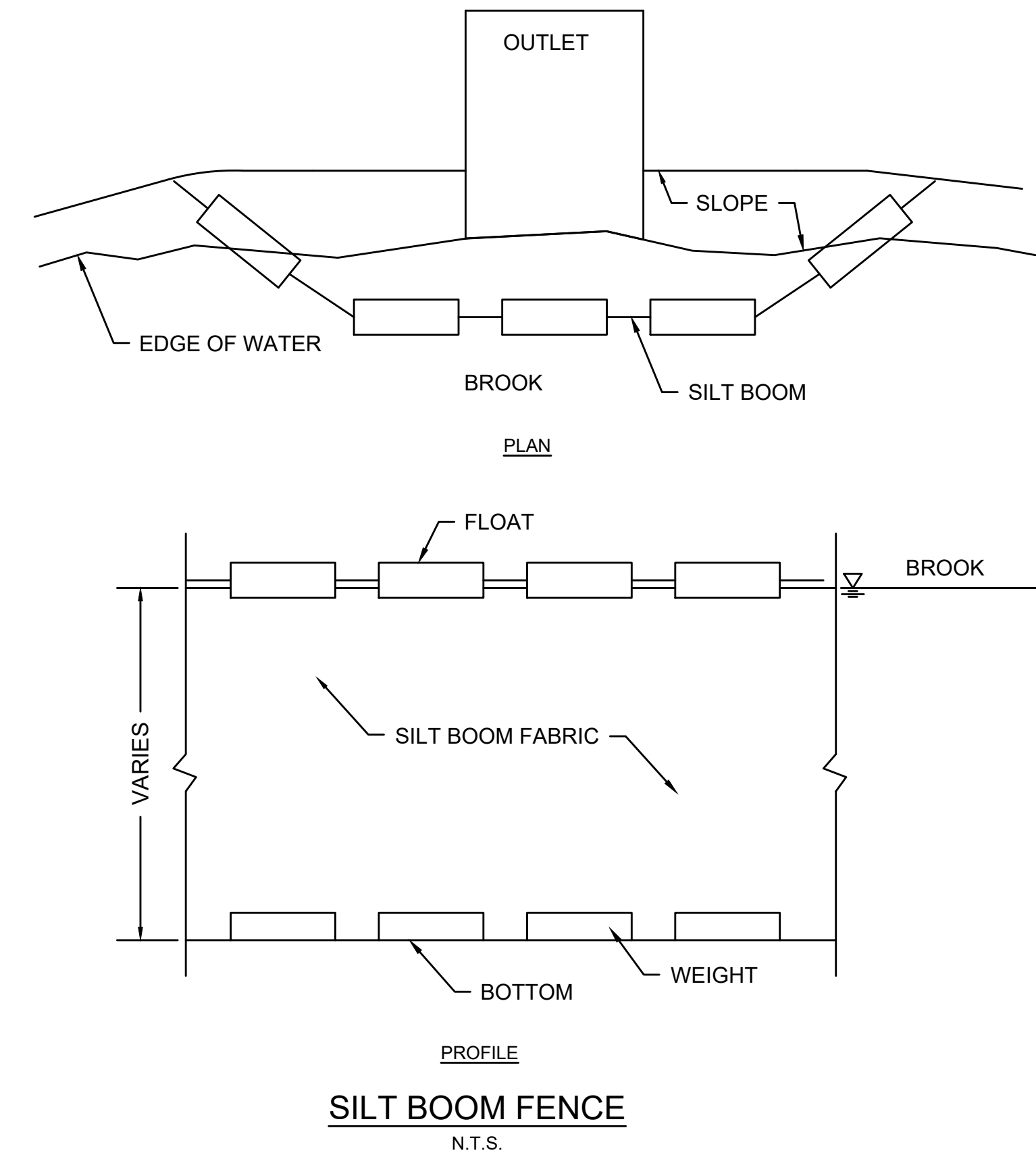
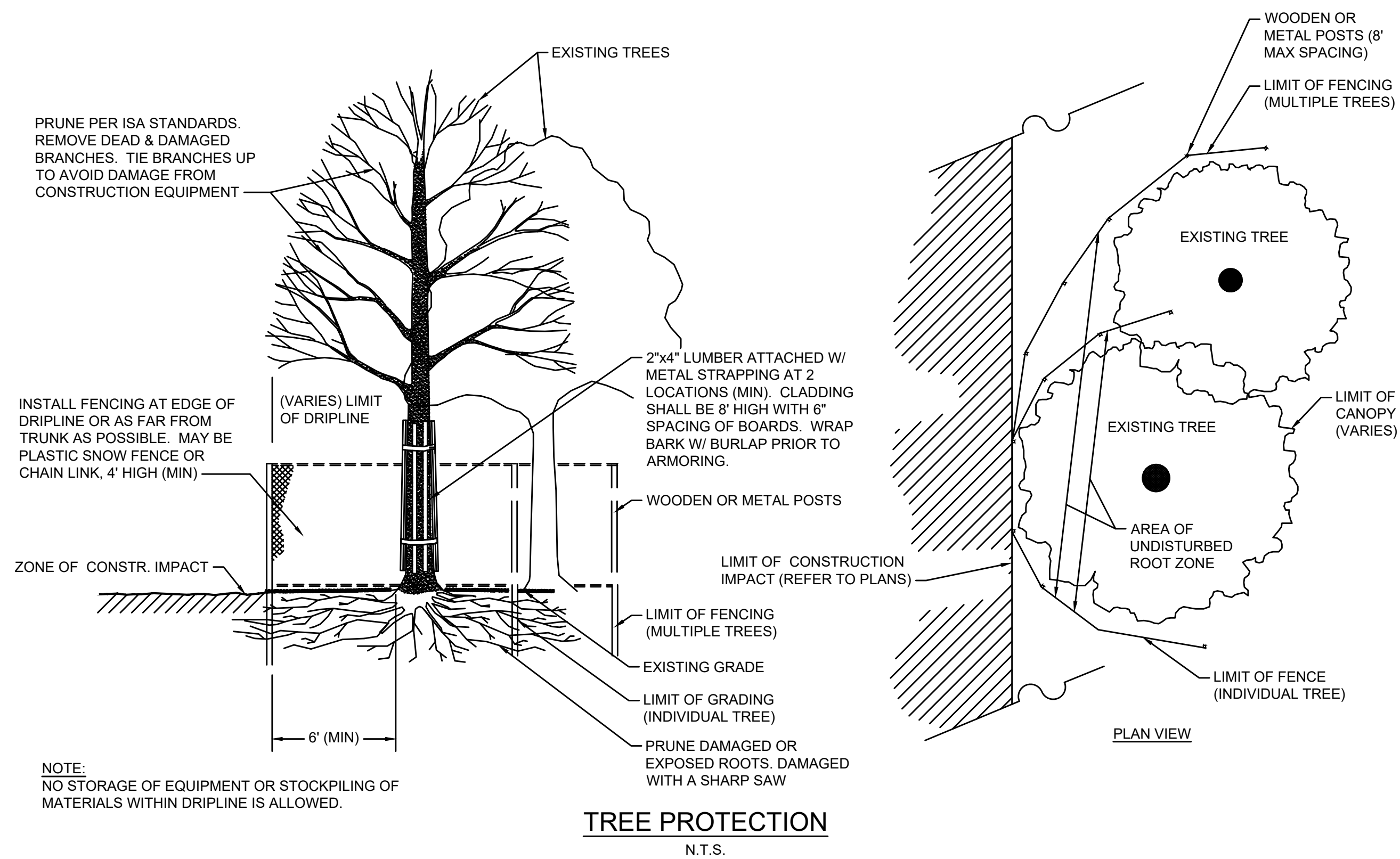
SURFACE: 1 1/2" SUPERPAVE BRIDGE SURFACE COURSE 9.5 (SSC-B-9.5) OVER
1 1/2" SUPERPAVE BRIDGE PROTECTIVE COURSE 9.5 (SPC-B-9.5)
BASE: VARIABLE DEPTH SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0)
(MIN. 3 1/2" AT CURB, MAX. 6" AT CROWN) OVER
1 1/2" UHPC OVERLAY

PROPOSED HMA MILLING AND OVERLAY

SURFACE: 1 1/2" SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5) OVER
1 1/2" PAVEMENT FINE MILLING

COMMONWEALTH OF MASSACHUSETTS
MassDOT, Highway Division
APPROVED UNDER PROVISIONS OF
MASS. GEN. LAWS CH 85 S 35
She Sam 1/31/2024
DISTRICT 5 BRIDGE ENGINEER DATE

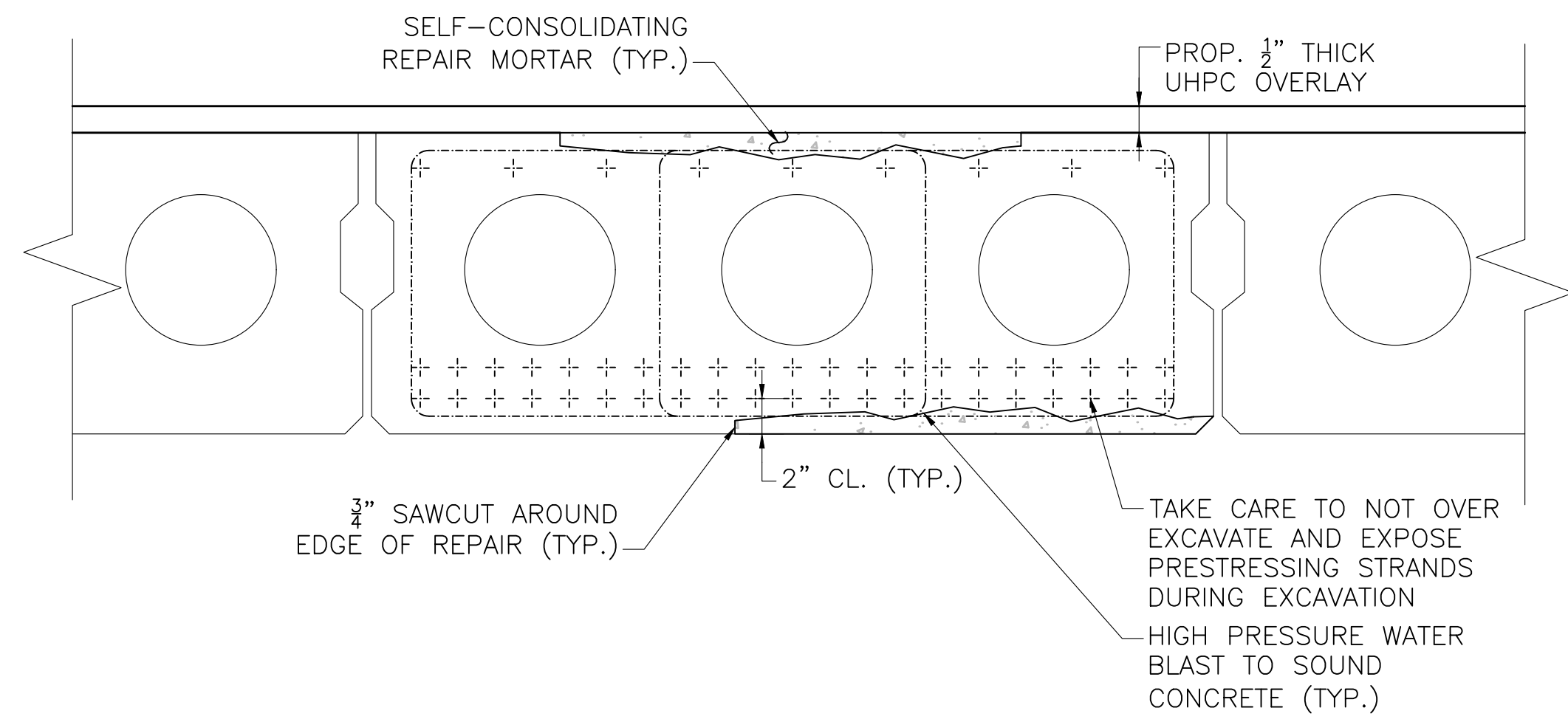
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	9	17
PROJECT FILE NO.		T1304	



- NOTES:**
1. INSTALL SILT SACK IN EXISTING CATCH BASINS BEFORE COMMENCING WORK, AND IN NEW CATCH BASINS IMMEDIATELY AFTER INSTALLATION OF STRUCTURE. MAINTAIN UNTIL BINDER COURSE PAVING IS COMPLETE OR A PERMANENT STAND OF GRASS HAS BEEN ESTABLISHED.
 2. GRATE TO BE PLACED OVER SILT SACK.
 3. SILT SACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	10	17
PROJECT FILE NO.		T1304	

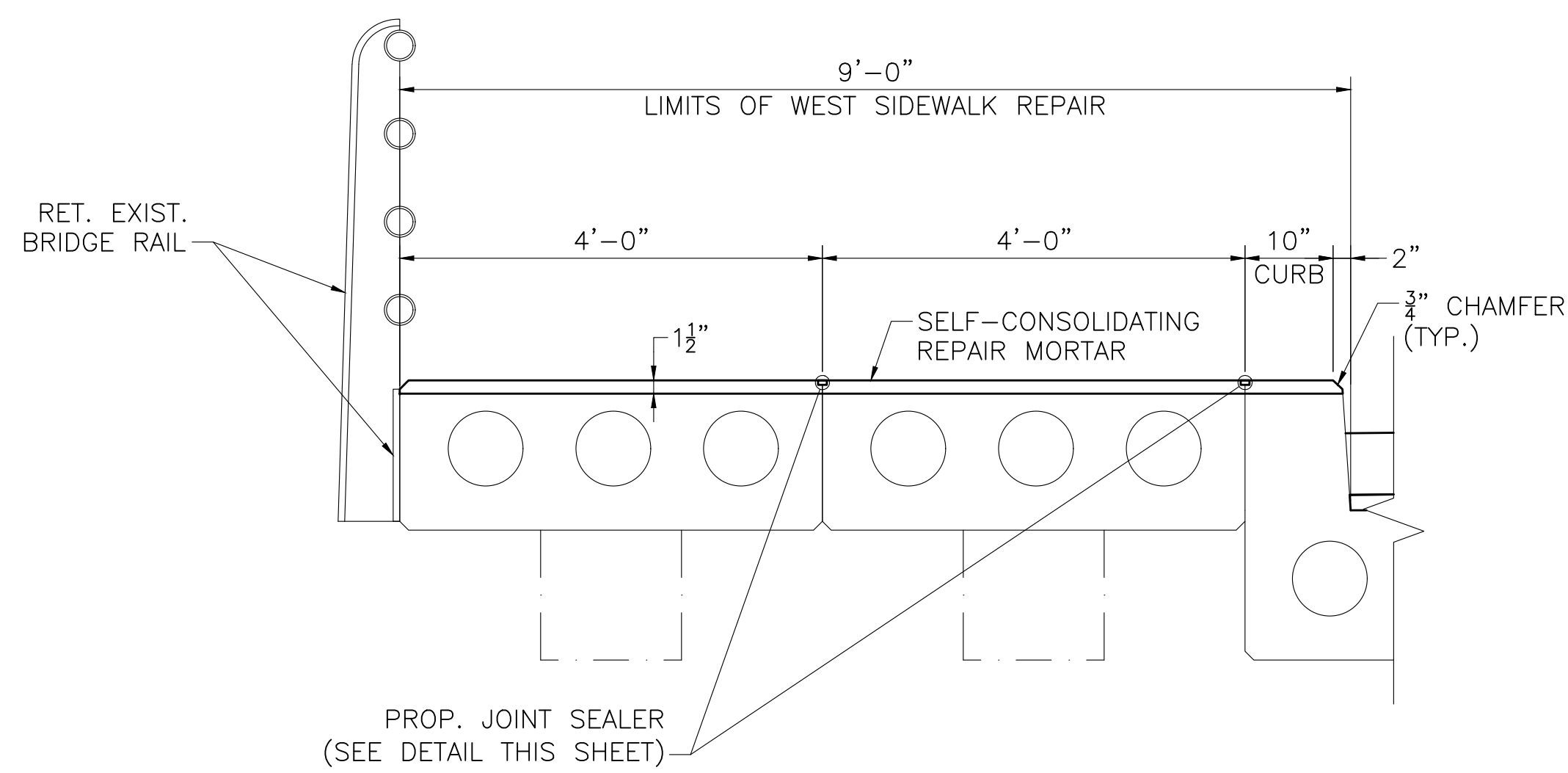
SUPERSTRUCTURE REPAIR DETAILS



NOTE:
TOPSIDE DETERIORATION SHALL BE REPAIRED PRIOR TO PLACING THE UHPC OVERLAY. SEE REPAIR SEQUENCE NOTES.

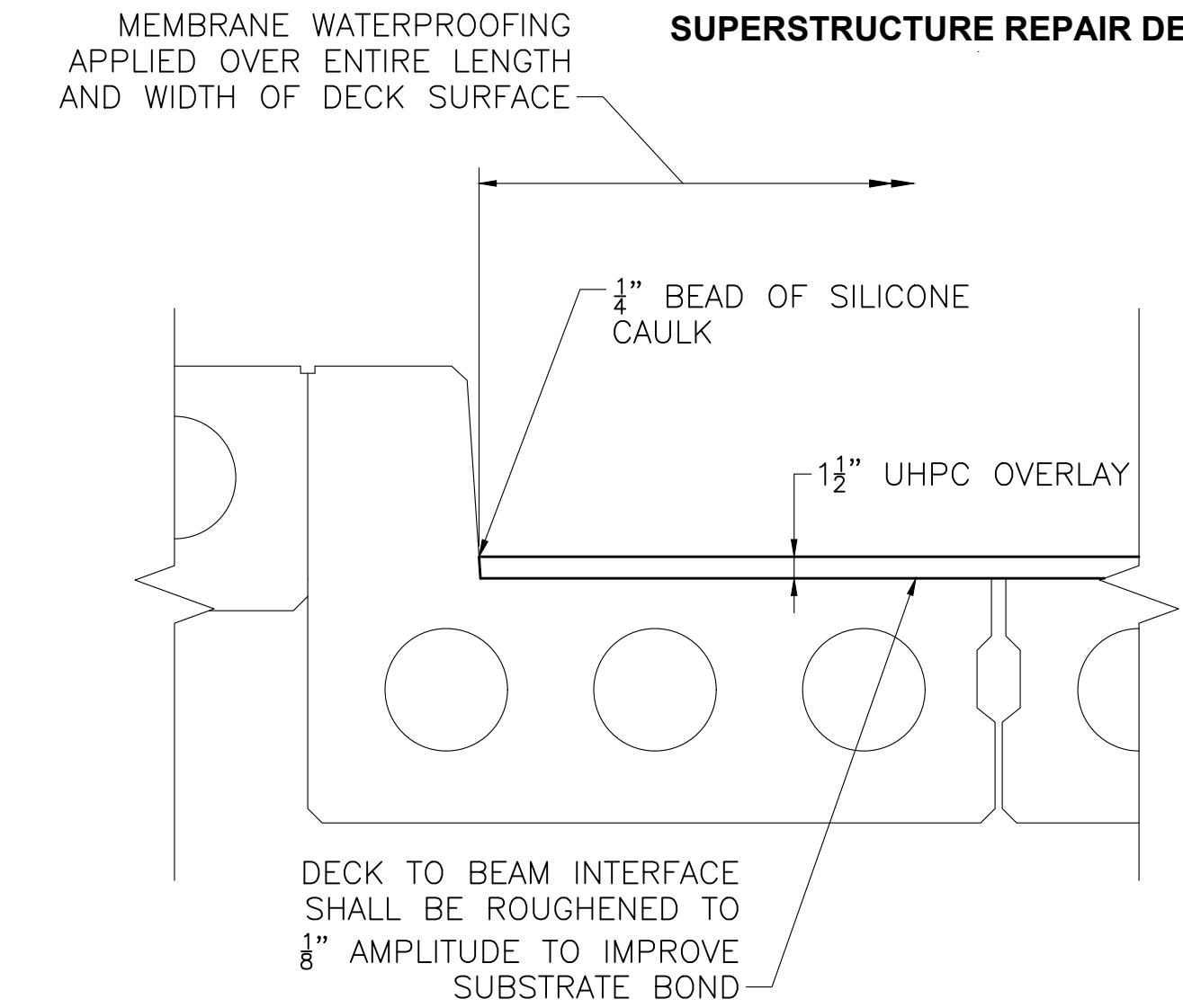
PARTIAL DEPTH BEAM REPAIR

SCALE: 1 1/2" = 1'-0"



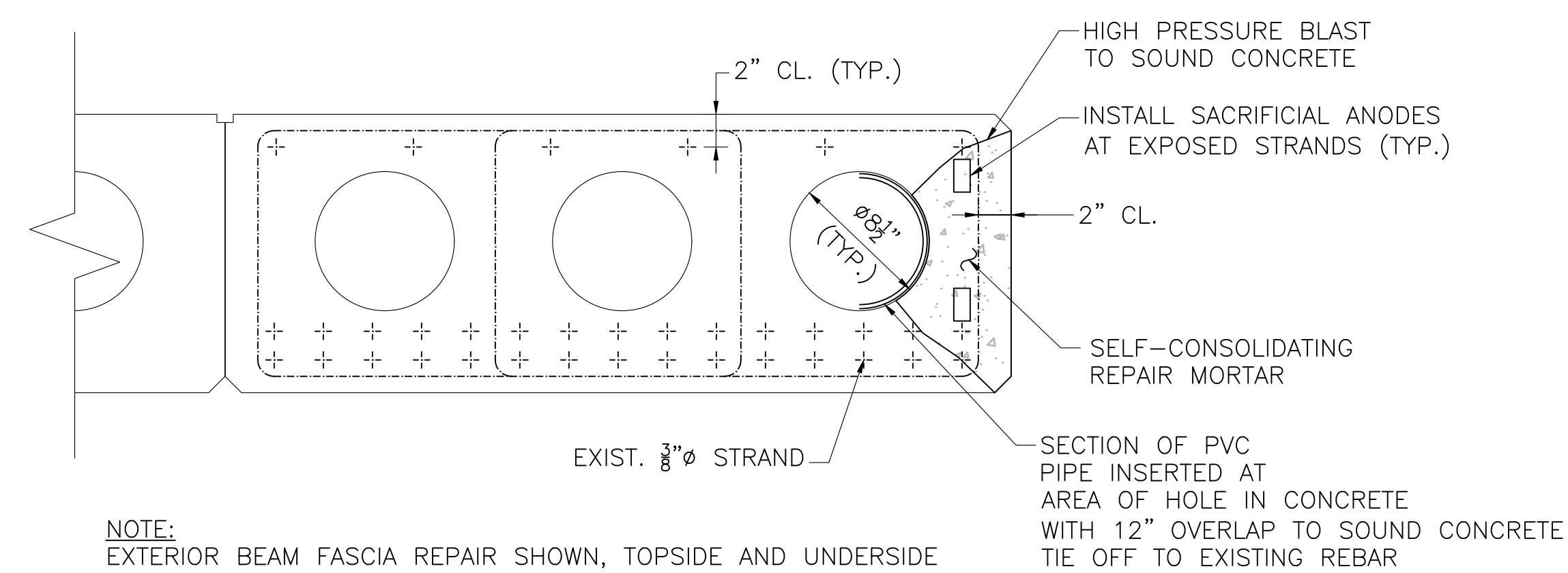
WEST SIDEWALK REPAIR DETAIL

SCALE: 3/4" = 1'-0"



OVERLAY DETAIL AT CURB

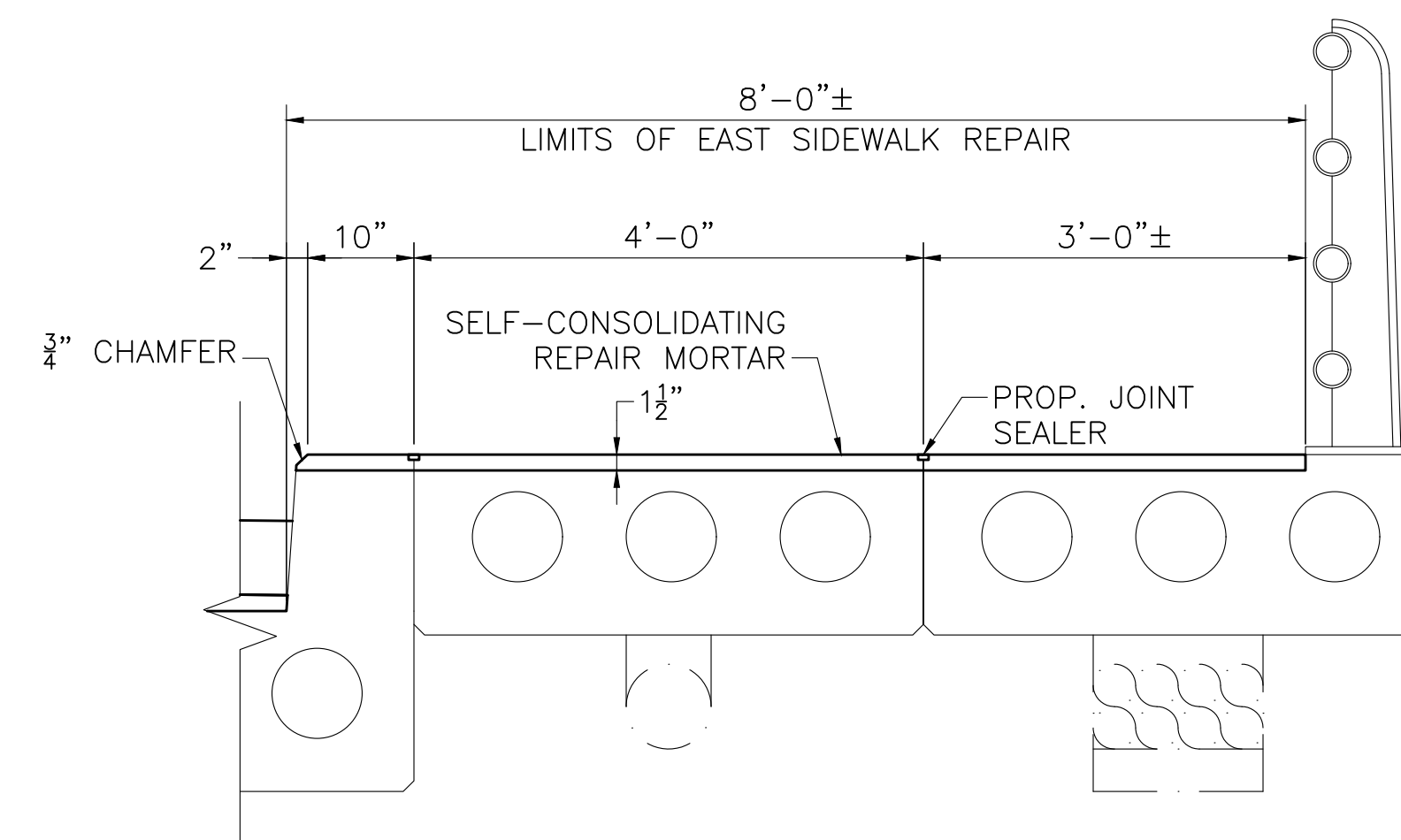
SCALE: 1" = 1'-0"



NOTE:
EXTERIOR BEAM FASCIA REPAIR SHOWN, TOPSIDE AND UNDERSIDE REPAIR SIMILAR.

FULL DEPTH BEAM REPAIR

SCALE: 1 1/2" = 1'-0"

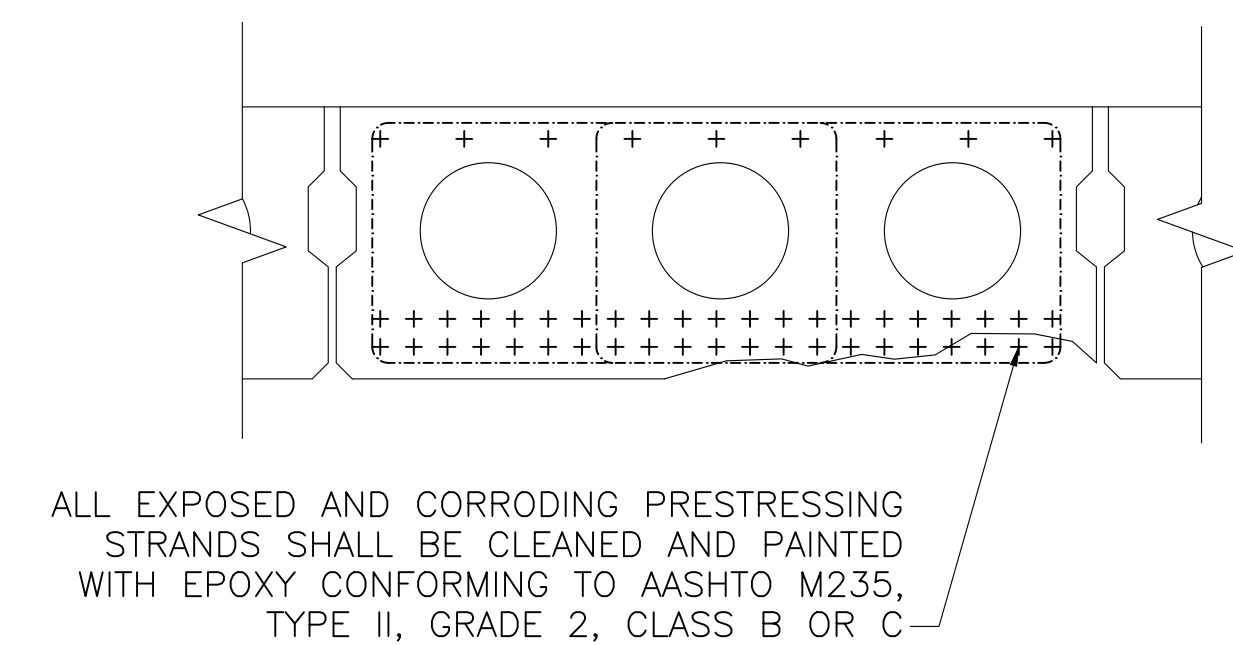


EAST SIDEWALK REPAIR DETAIL

SCALE: 3/4" = 1'-0"

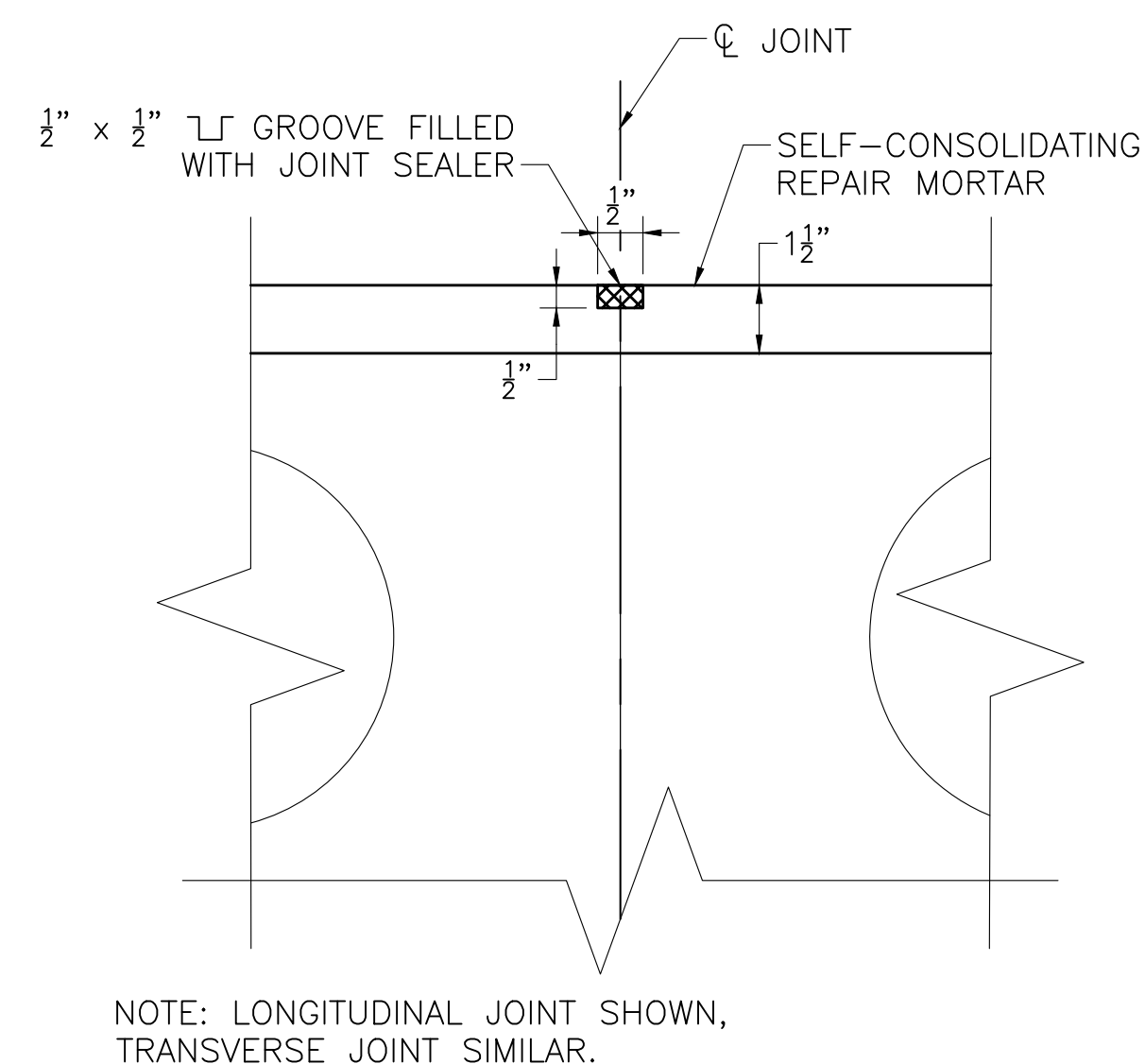
TOPSIDE ROADWAY BEAM REPAIR SEQUENCE NOTES:

1. IMPLEMENT APPROVED TEMPORARY TRAFFIC CONTROL PLAN PHASE 1.
2. EXCAVATE EXISTING ASPHALT WEARING SURFACE IN THE PHASE 1 WORK AREA DOWN TO THE EXISTING DECK BEAMS. REMOVE ANY EXISTING MEMBRANE WATERPROOFING.
3. INSPECT THE TOP SURFACE OF ROADWAY BEAMS AND MARK OUT DETERIORATED AREAS TO BE APPROVED FOR REPAIR BY THE ENGINEER.
4. REMOVE DETERIORATED CONCRETE AT APPROVED REPAIR LOCATIONS. USING HIGH PRESSURE WATER BLASTING, CLEAN CONCRETE SUBSTRATE AND ANY EXISTING REBAR THAT IS TO REMAIN AND TO BE BONDED TO THE NEW SELF-CONSOLIDATING REPAIR MORTAR.
5. FULL DEPTH REPAIR ONLY: INSERT PVC PIPE SECTION AT AREA OF EXPOSED ROADWAY DECK BEAM VOID AND INSTALL SACRIFICIAL ANODES AT ANY EXPOSED PRE-STRESSING STRANDS (SEE FULL DEPTH REPAIR DETAIL).
6. CONCRETE SUBSTRATE IS TO BE PRE SOAKED FOR 24 HOURS IMMEDIATELY PRIOR TO THE APPLICATION OF REPAIR AND OVERLAY MATERIAL.
7. PLACE AND FINISH FRESH SELF-CONSOLIDATING REPAIR MORTAR WHILE SUBSTRATE IS STILL SATURATED. WET CURE EXPOSED SURFACES FOR A MINIMUM OF 2 DAYS.
8. USING HIGH PRESSURE WATER BLASTING, BLOW OUT AND CLEAN SHEAR KEYS ONE JOINT AT A TIME BETWEEN THE CONCRETE DECK BEAMS.
9. PLACE AND FINISH FRESH KEYWAY MORTAR AND NEW FOAM BACKER ROD.
10. AFTER TOPSIDE PATCH REPAIRS HAVE CURED, HIGH PRESSURE WATER BLAST ENTIRE TOPSIDE SURFACE OF ROADWAY DECK BEAMS TO CLEAN THE CONCRETE SUBSTRATE. ROUGHEN TO THE REQUIRED AMPLITUDE PRIOR TO PLACEMENT OF UHPC OVERLAY.
11. POUR UHPC OVERLAY TO A UNIFORM THICKNESS OF 1 1/2". INSTALLATION OF THE UHPC OVERLAY SHALL BE IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
12. APPLY MEMBRANE WATERPROOFING ON THE CURED UHPC SURFACE.
13. PLACE HMA WEARING SURFACE TO THE PROPOSED FINISHED GRADES.
14. REPEAT STEPS 1 THROUGH 13 FOR EACH SUBSEQUENT PHASE OF CONSTRUCTION.



EXPOSED STRAND REPAIR

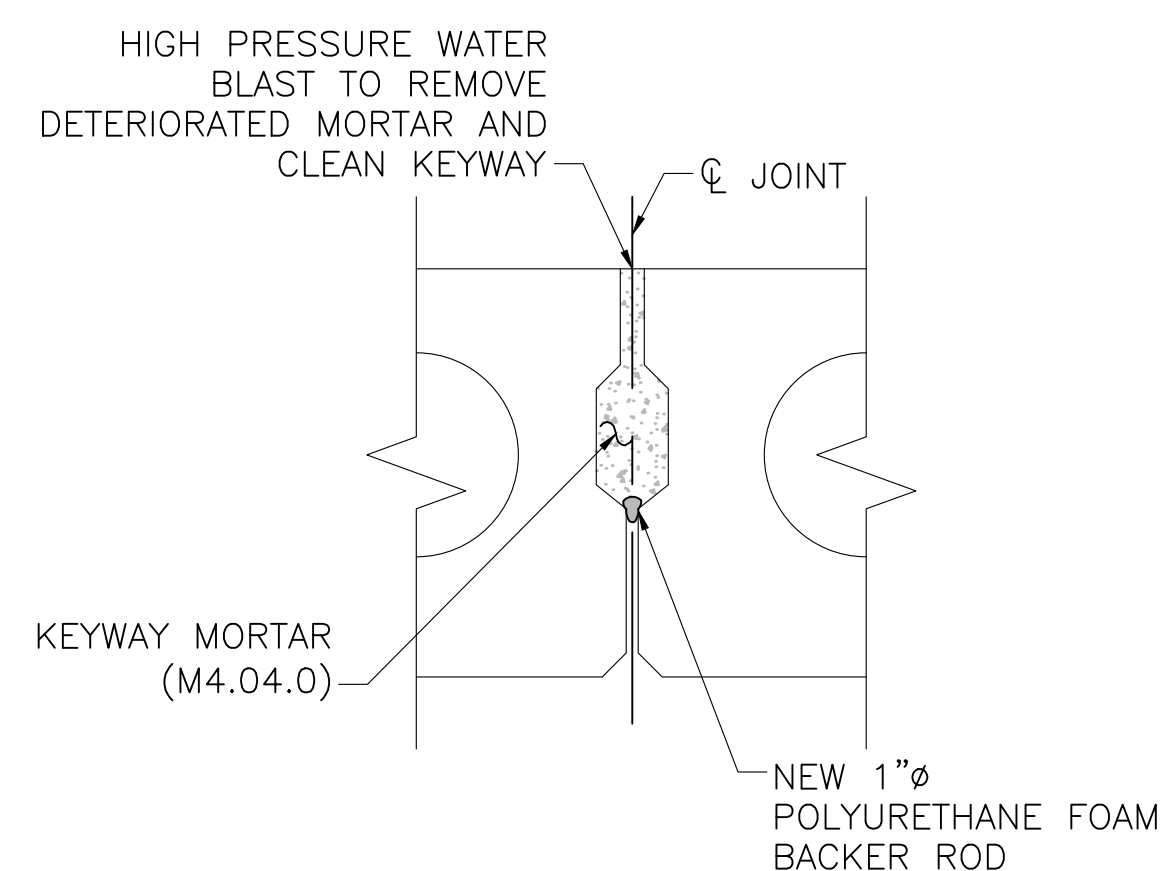
NOT TO SCALE



NOTE: LONGITUDINAL JOINT SHOWN, TRANSVERSE JOINT SIMILAR.

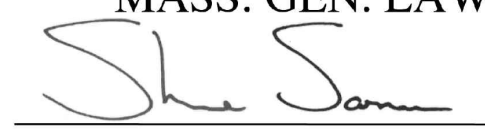
SIDEWALK JOINT REPAIR DETAIL

NOT TO SCALE



SHEAR KEY REPAIR

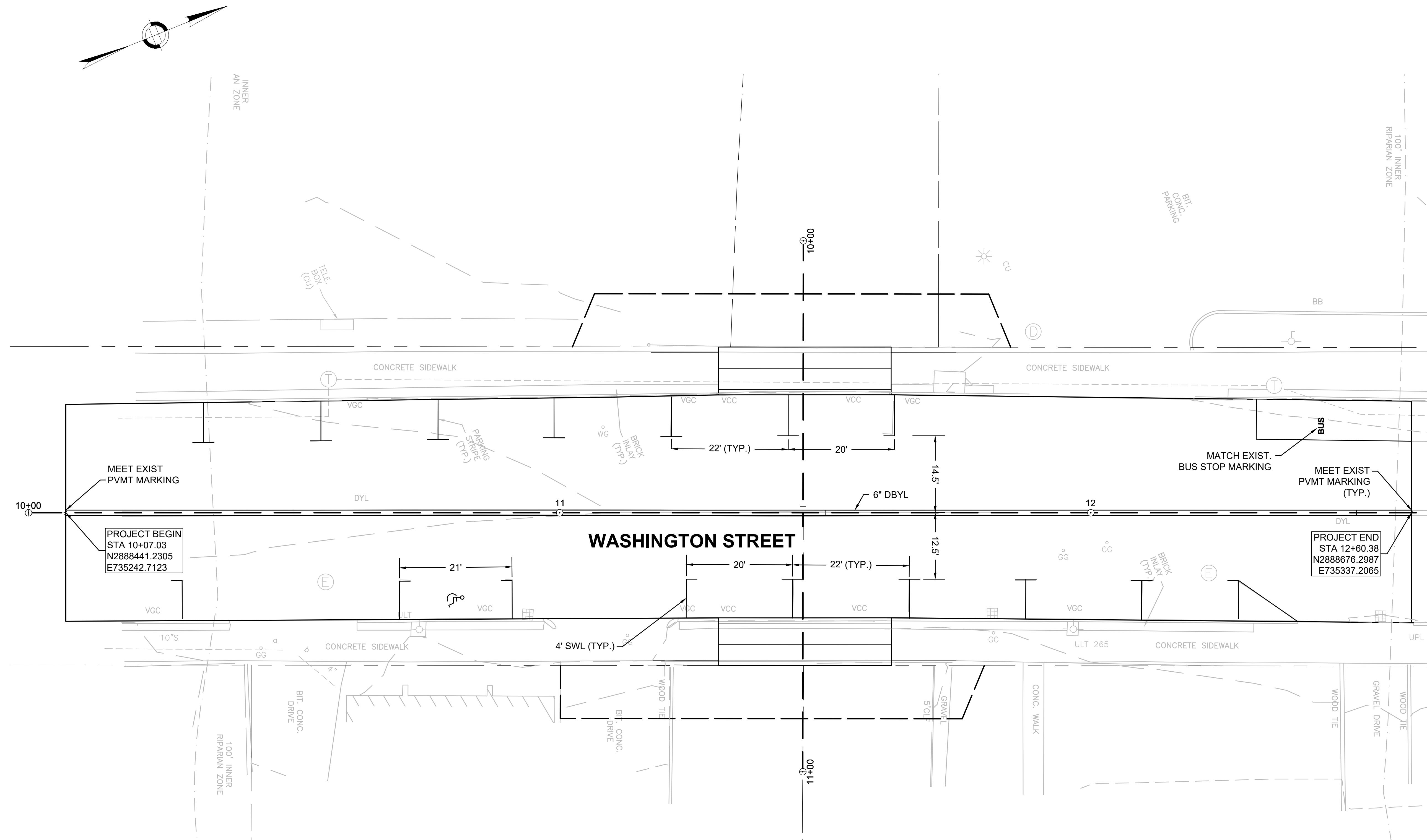
NOT TO SCALE

COMMONWEALTH OF MASSACHUSETTS
MassDOT, Highway Division
 APPROVED UNDER PROVISIONS OF
 MASS. GEN. LAWS CH 85 S 35

 DISTRICT 5 BRIDGE ENGINEER DATE 1/31/2024

NORWOOD
WASHINGTON STREET OVER HAWES BROOK

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	11	17
PROJECT FILE NO.		T1304	

PAVEMENT MARKING PLAN



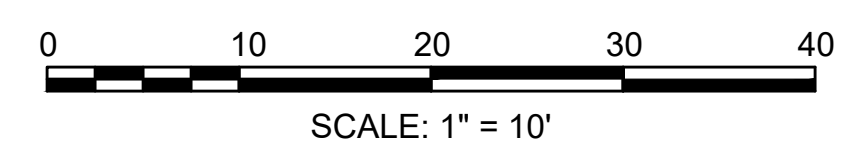
MEET EXIST.
PVTM MARKING

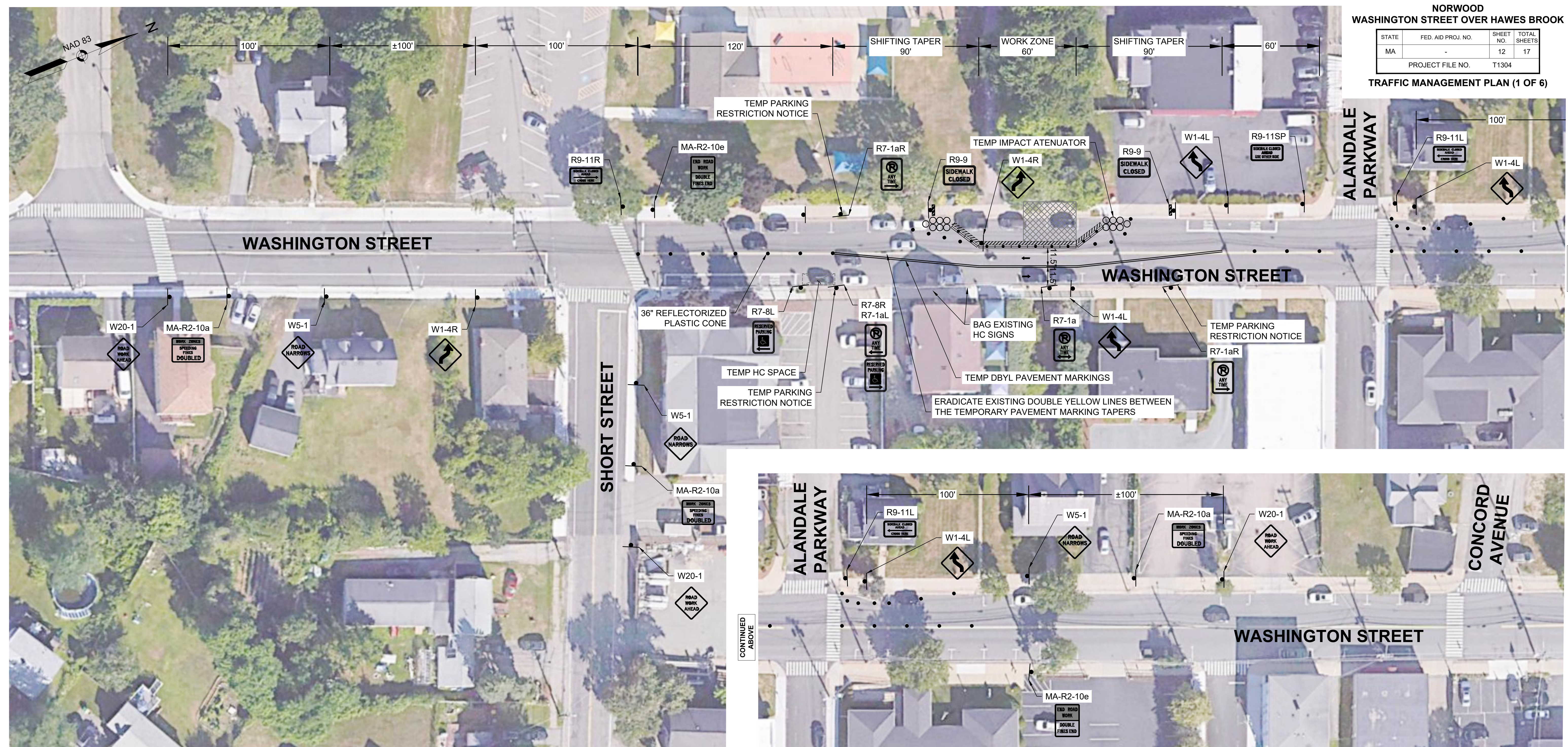
PROJECT BEGIN
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E735242.7123

WASHINGTON STREET

PROJECT END
STA 12+60.38
N2888676.2987
E735337.2065

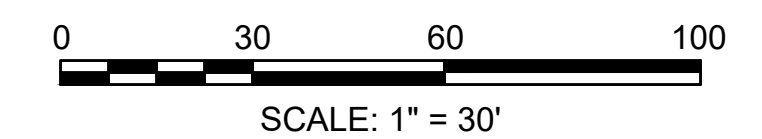
- NOTES:
- ALL EXISTING PAVEMENT MARKINGS WITHIN THE LIMITS OF PROPOSED MILL & OVERLAY SHALL BE REPLACED.
 - ALL PAVEMENT MARKINGS WITHIN THE LIMITS OF WORK SHALL BE THERMOPLASTIC MATERIALS.
 - LANE WIDTH DIMENSIONS BASED ON LOCATION OF EXISTING LANE LINES.





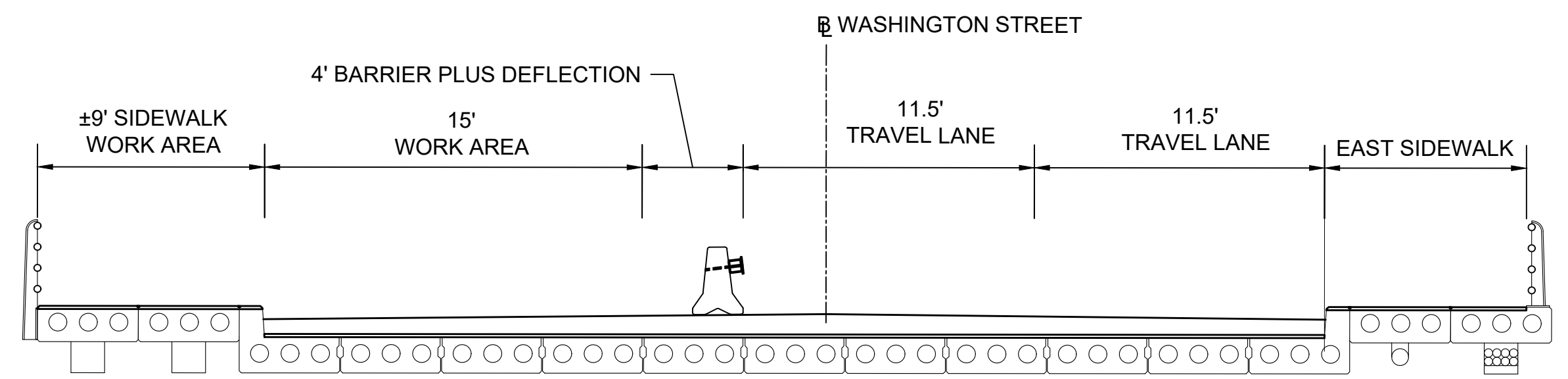
NOTE:
 1. EXISTING PARKING MARKINGS IN DIRECT CONFLICT WITH THE WORK ZONE AND OUT TEMPORARY TRAFFIC CONTROL SHALL BE ERADICATED BY APPROVED METHODS OR COVERED.

PHASE 1 - TWO LANE ROAD SHOULDER AND TRAVEL LANE CLOSED



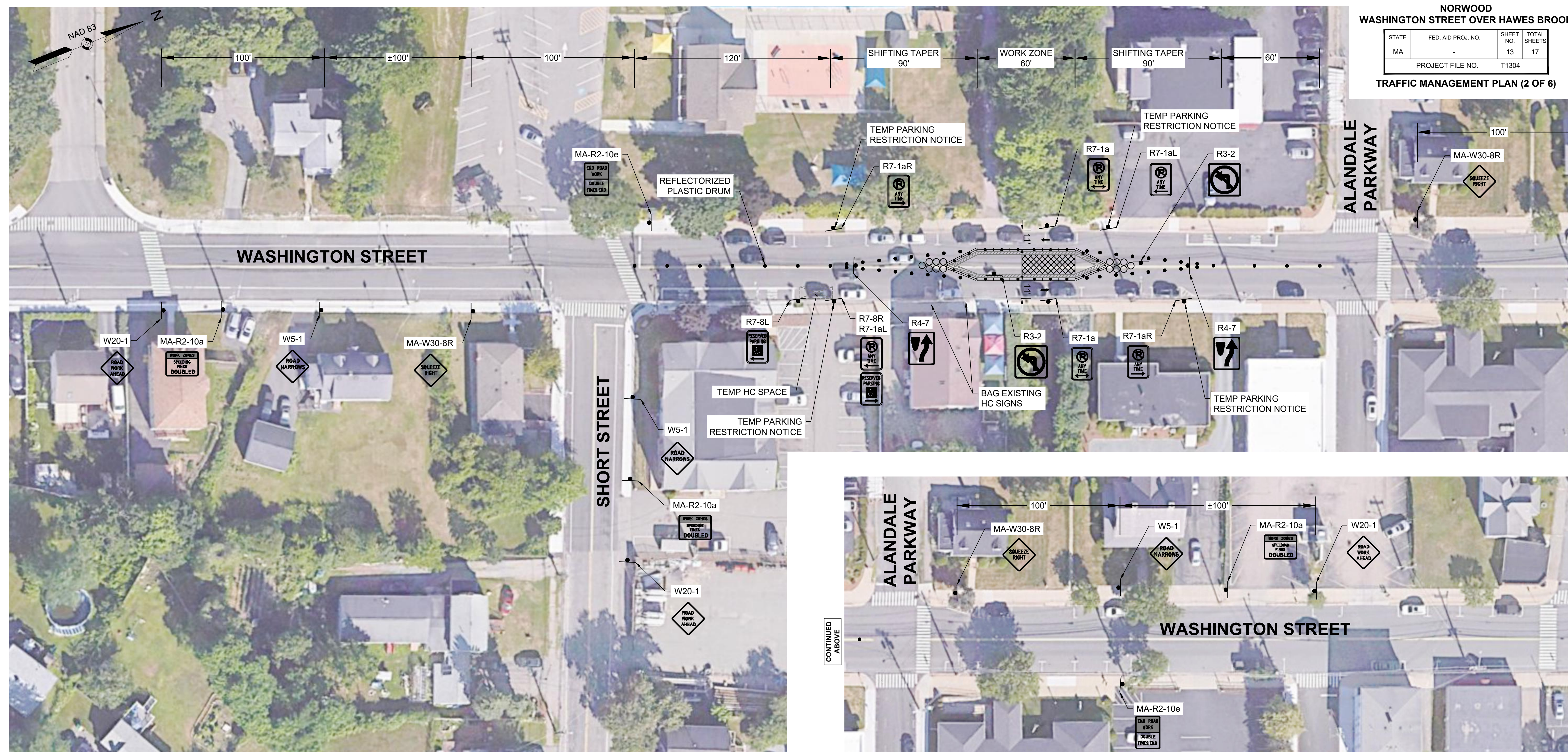
TEMPORARY TRAFFIC CONTROL LEGEND:

- BRIDGE AND SIDEWALK RECONSTRUCTION AREA
- MAXIMUM ALLOWABLE DEFLECTION AREA
- DIRECTION OF TRAVEL
- SIGN
- REFLECTORIZED PLASTIC DRUM
- CONSTRUCTION BARRIER W/ REFLECTORS OR WARNING LIGHTS
- TYPE III BARRICADE



PHASE 1 - CROSS SECTION NORTHBOUND APPROACH

12-16 TRAFFIC MANAGEMENT PLAN.DWG Plotted on 26-Mar-2024 9:51 AM 31 January 2024

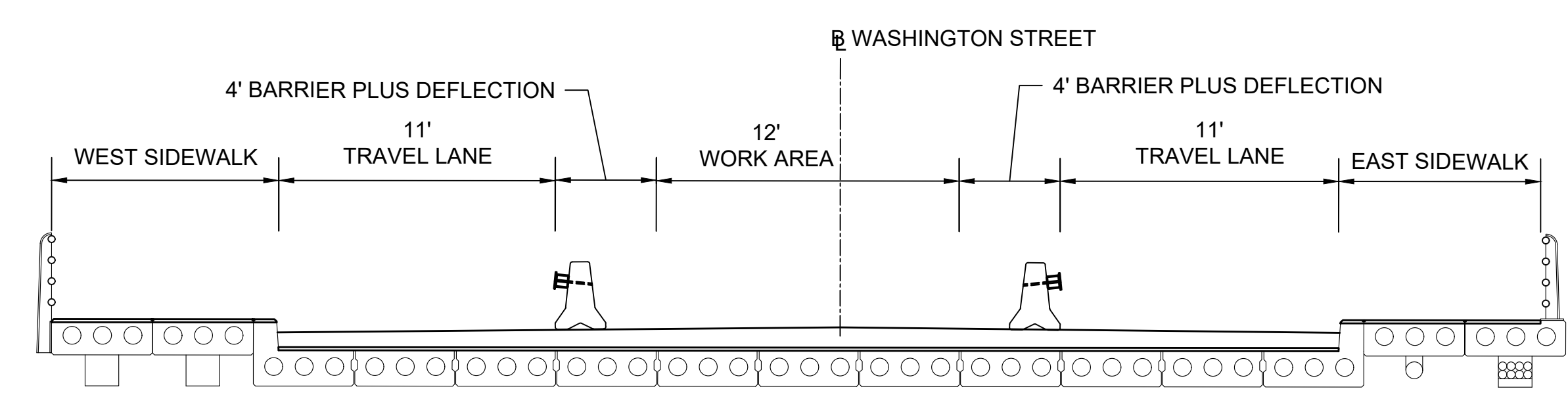


NOTE:
 1. EXISTING PARKING MARKINGS IN DIRECT CONFLICT WITH THE WORK ZONE AND OUT TEMPORARY TRAFFIC CONTROL SHALL BE ERADICATED BY APPROVED METHODS OR COVERED.

PHASE 2 - TWO LANE ROAD CENTER OF THE ROAD CLOSURE

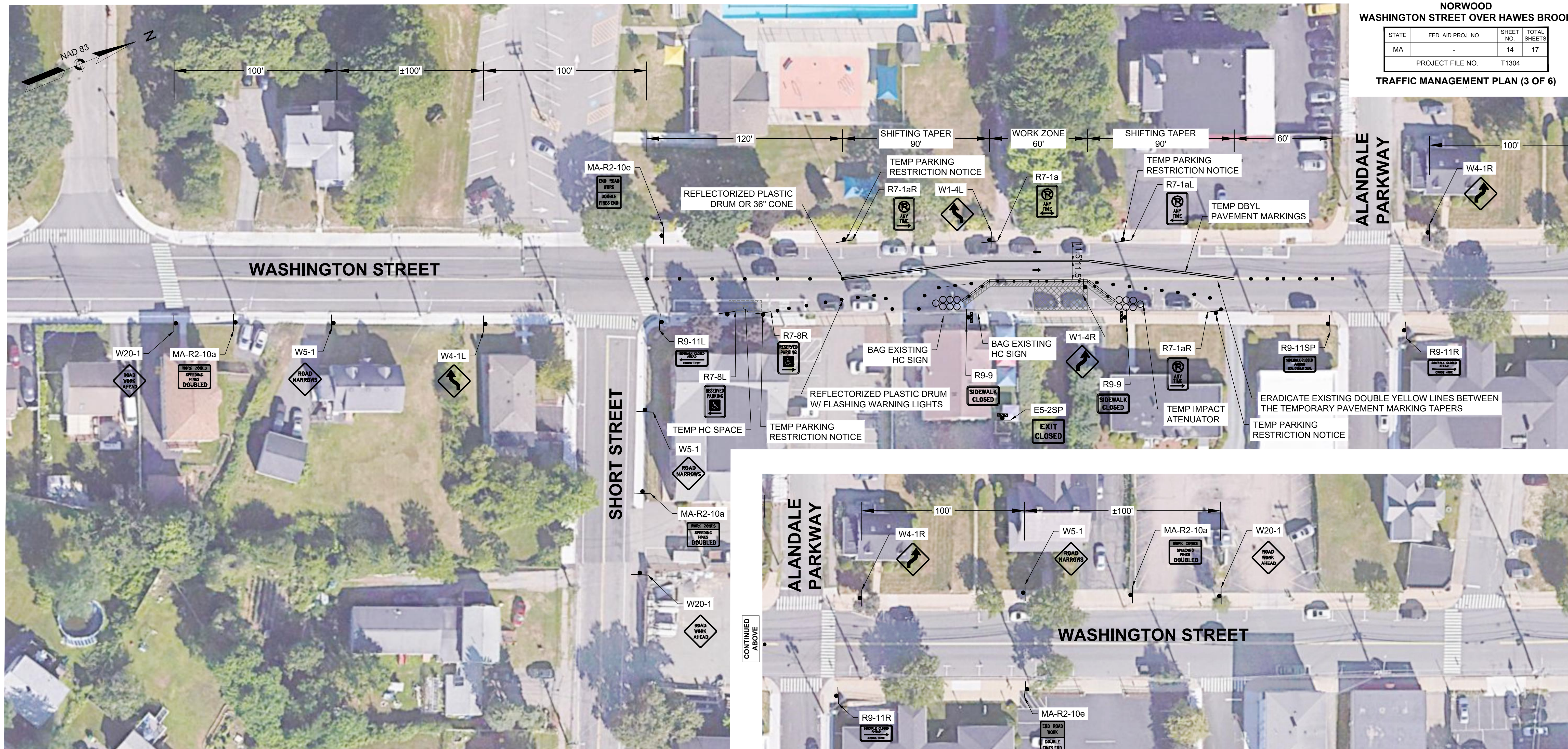
TEMPORARY TRAFFIC CONTROL LEGEND:

- BRIDGE AND SIDEWALK RECONSTRUCTION AREA
- MAXIMUM ALLOWABLE DEFLECTION AREA
- DIRECTION OF TRAVEL
- SIGN
- REFLECTORIZED PLASTIC DRUM
- CONSTRUCTION BARRIER W/ REFLECTORS OR WARNING LIGHTS
- TYPE III BARRICADE



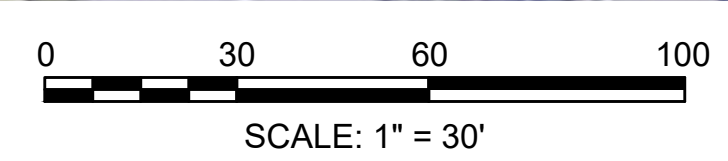
PHASE 2 - CROSS SECTION NORTHBOUND APPROACH

12-16 TRAFFIC MANAGEMENT PLAN.DWG Plotted on 26-Mar-2024 9:51 AM 31 January 2024



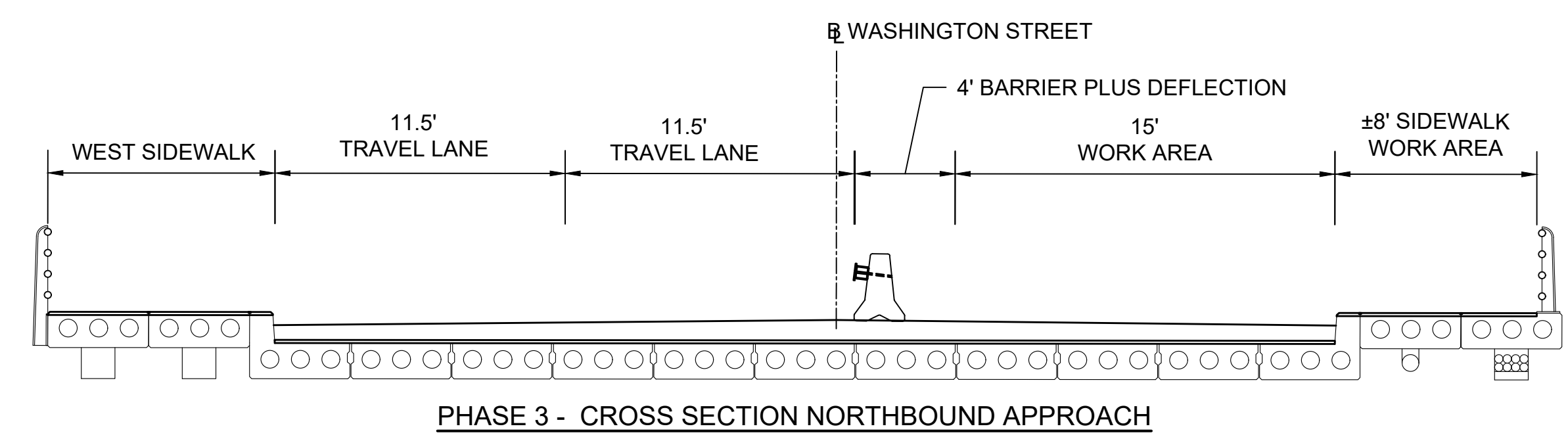
NOTE:
 1. EXISTING PARKING MARKINGS IN DIRECT CONFLICT WITH THE WORK ZONE AND OUT TEMPORARY TRAFFIC CONTROL SHALL BE ERADICATED BY APPROVED METHODS OR COVERED.

PHASE 3 - TWO LANE ROAD
SHOULDER AND TRAVEL LANE CLOSED



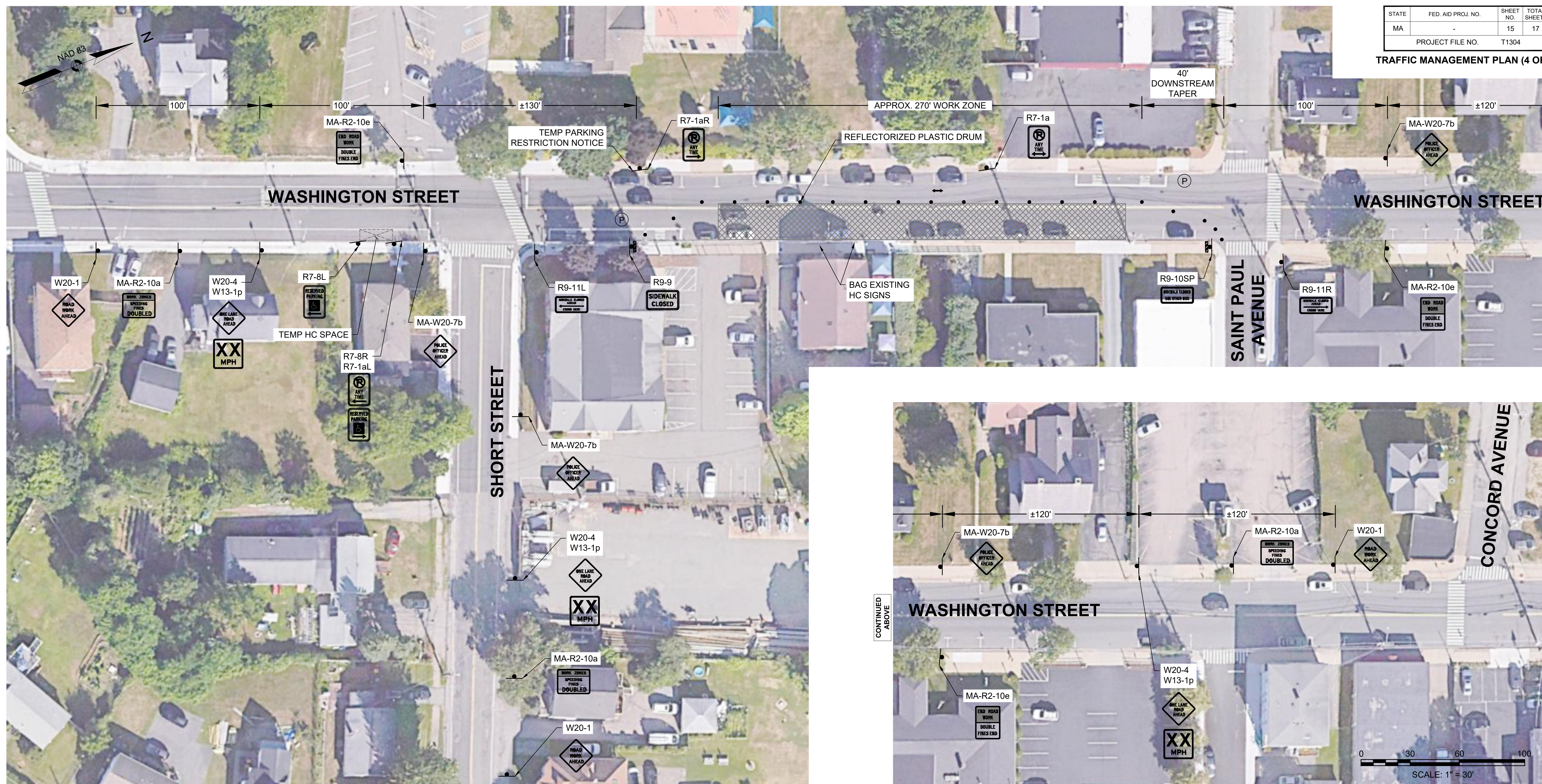
TEMPORARY TRAFFIC CONTROL LEGEND:

- BRIDGE AND SIDEWALK RECONSTRUCTION AREA
- MAXIMUM ALLOWABLE DEFLECTION AREA
- DIRECTION OF TRAVEL
- SIGN
- REFLECTORIZED PLASTIC DRUM
- CONSTRUCTION BARRIER W/ REFLECTORS OR WARNING LIGHTS
- TYPE III BARRICADE



PHASE 3 - CROSS SECTION NORTHBOUND APPROACH

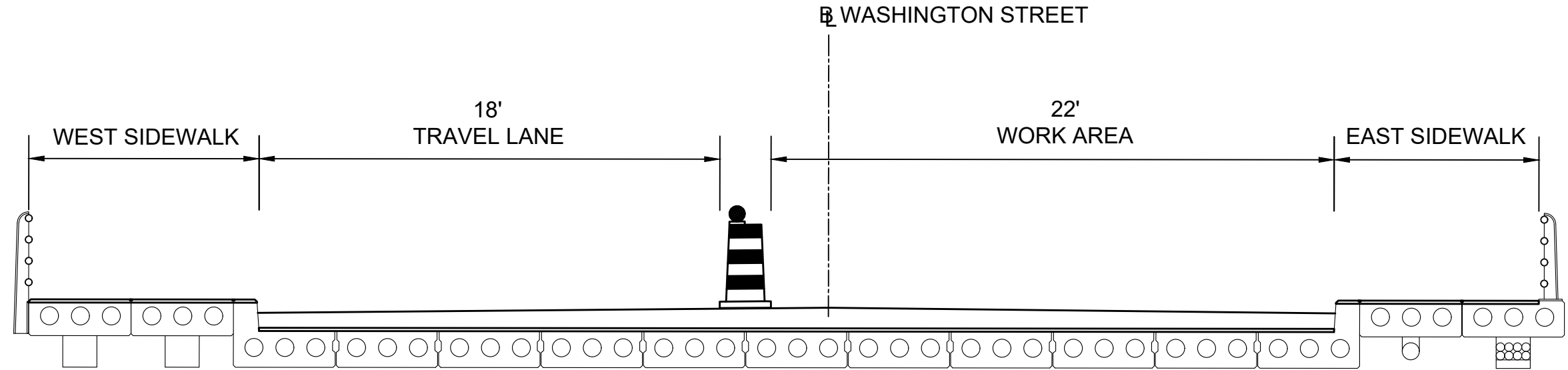
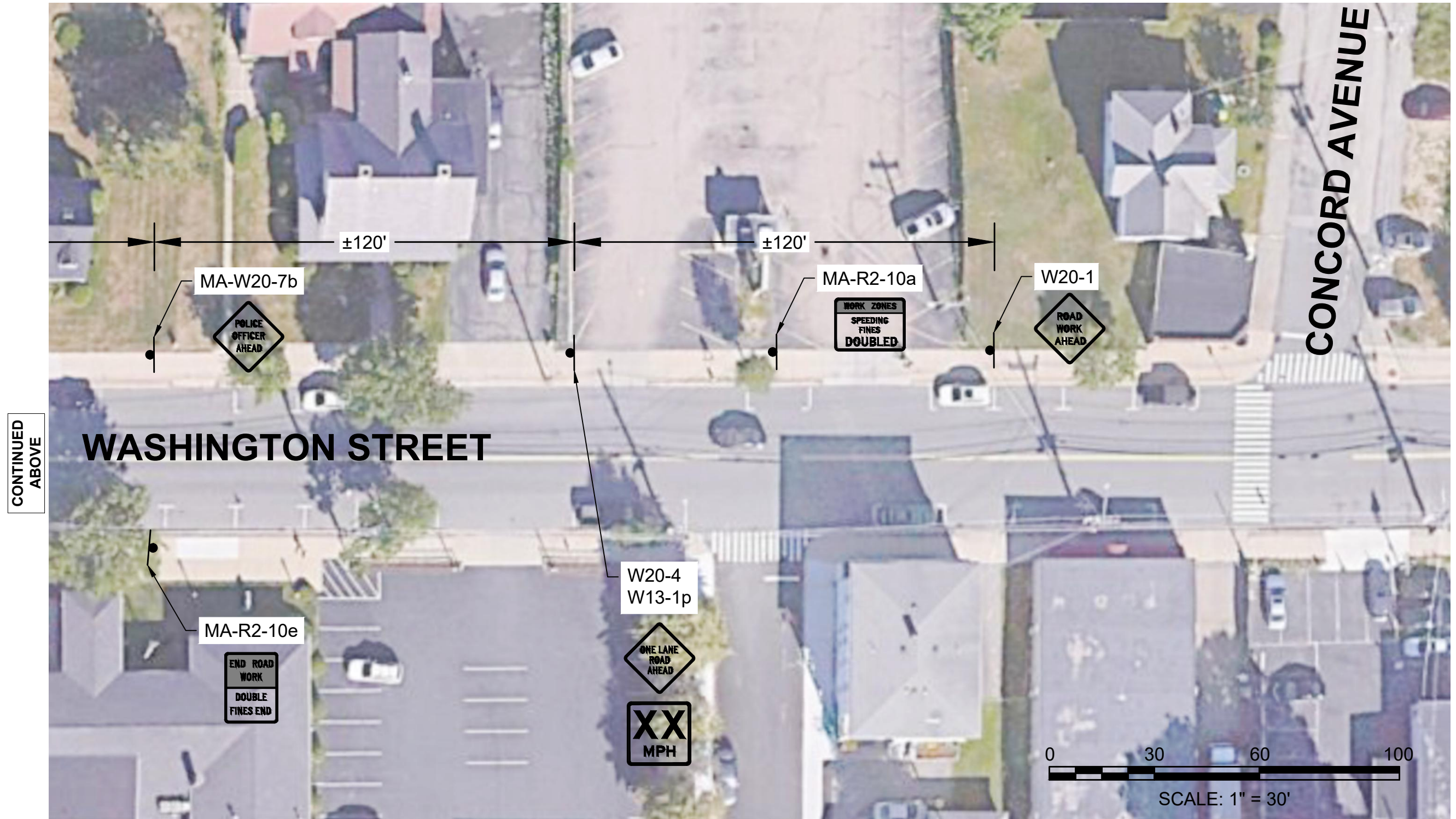
12-16 TRAFFIC MANAGEMENT PLAN.DWG Plotted on 28-Mar-2024 9:51 AM 31 January 2024



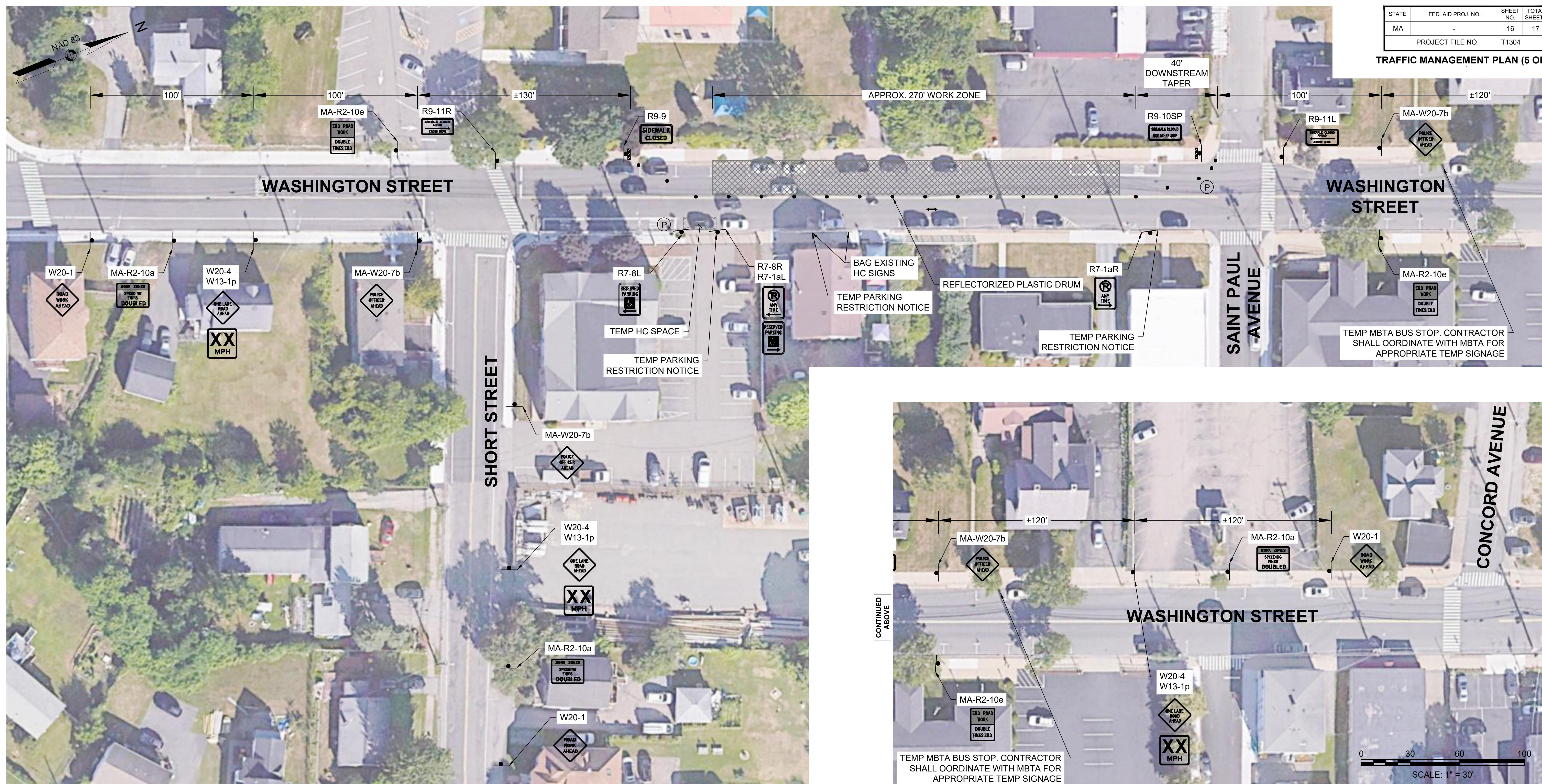
PHASE 4 - TWO LANE ROAD
ONE LANE ALTERNATING TRAFFIC WITH POLICE DETAIL

TEMPORARY TRAFFIC CONTROL LEGEND:

- BRIDGE AND SIDEWALK RECONSTRUCTION AREA
- DIRECTION OF TRAVEL
- SIGN
- REFLECTORIZED PLASTIC DRUM
- POLICE DETAIL



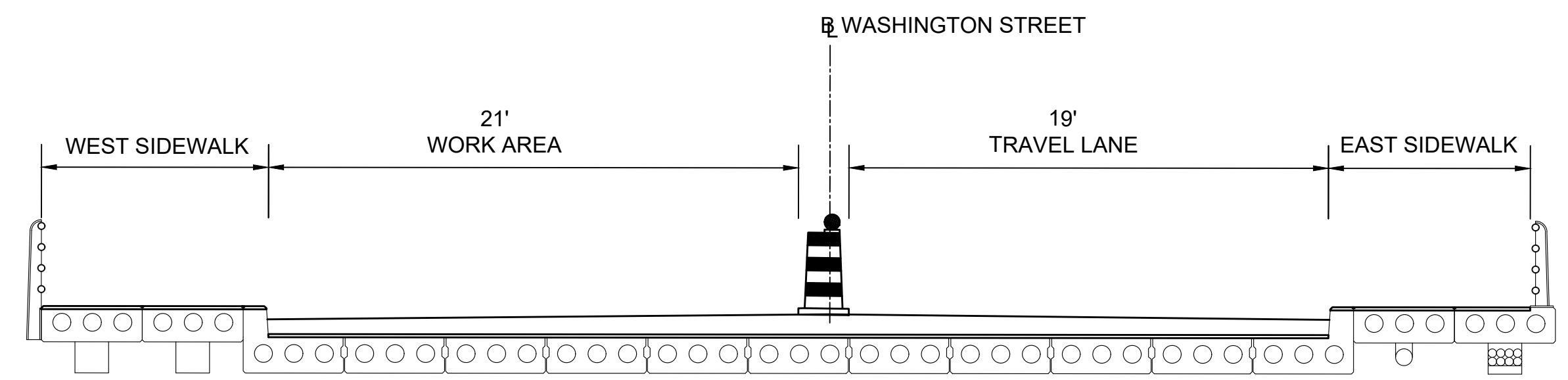
PHASE 4 - CROSS SECTION NORTHBOUND APPROACH



PHASE 5 - TWO LANE ROAD
ONE LANE ALTERNATING TRAFFIC WITH POLICE DETAIL

TEMPORARY TRAFFIC CONTROL LEGEND:

- BRIDGE AND SIDEWALK RECONSTRUCTION AREA
- DIRECTION OF TRAVEL
- SIGN
- REFLECTORIZED PLASTIC DRUM
- POLICE DETAIL



PHASE 5 - CROSS SECTION NORTHBOUND APPROACH

TRAFFIC SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES)		LEGEND	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			NUMBER OF SUPPORTS REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK GROUND	LEGEND	BORDER			
MA-R2-10a	48	36			①		3	FLUOR. ORANGE/ WHITE	BLACK	BLACK	3	12.00	36.00
MA-R2-10e	36	48			↓		2	FLUOR. ORANGE/ WHITE	BLACK	BLACK	2	12.00	24.00
R3-2	24	24			②		2	WHITE	RED BLACK	BLACK	2	4.00	8.00
R4-7	24	30					2	WHITE	RED	RED	2	5.00	10.00
R7-1a	12	18					2	WHITE	RED	RED	2	1.50	3.00
R7-1aL	12	18					2	WHITE	RED	RED	2	1.50	3.00
R7-1aR	12	18					2	WHITE	RED	RED	2	1.50	3.00
R7-8L	12	18					1	WHITE	GREEN/ BLUE	GREEN	1	1.50	1.50
R7-8R	12	18					1	WHITE	GREEN/ BLUE	GREEN	0 W/ R7-1aL	1.50	1.50
R9-9	24	12					2	WHITE	BLACK	BLACK	0 2 ON TYPE 3 BARRICADE	2.00	4.00
R9-11L	24	18					1	WHITE	BLACK	BLACK	1	3.00	3.00
R9-11R	24	18					1	WHITE	BLACK	BLACK	1	3.00	3.00
R9-10SP	24	18					1	WHITE	BLACK	BLACK	1	3.00	3.00
W1-4L	36	36					3	FLUOR. ORANGE	BLACK	BLACK	3	9.00	27.00
W1-4R	36	36					2	FLUOR. ORANGE	BLACK	BLACK	2	9.00	18.00
W5-1	36	36			↓		3	FLUOR. ORANGE	BLACK	BLACK	3	9.00	27.00

NOTES:

- MASSDOT STANDARD SIGN.
- CONTRACTOR TO FURNISH SIGNS CONSISTENT WITH 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. SEE MANUAL FOR TEXT AND LEGEND DIMENSIONS.

NORWOOD
WASHINGTON STREET OVER HAWES BROOK

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	17	17
PROJECT FILE NO.		T1304	

TRAFFIC MANAGEMENT PLAN (6 OF 6)

TRAFFIC SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES)		LEGEND	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			NUMBER OF SUPPORTS REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK GROUND	LEGEND	BORDER			
W13-1p	36	36			①		3	FLUOR. ORANGE	BLACK	BLACK	0 W/ W20-4	9.00	27.00
W20-1	36	36					3	FLUOR. ORANGE	BLACK	BLACK	3	9.00	27.00
W20-4	36	36					3	FLUOR. ORANGE	BLACK	BLACK	3	9.00	27.00
E5-2aSP	30	18			↓		1	FLUOR. ORANGE	BLACK	BLACK	0 ON TYPE 3 BARRICADE	3.75	3.75
MA-W20-7b	36	36					3	FLUOR. ORANGE	BLACK	BLACK	3	9.00	27.00

GENERAL NOTES:

- LANE CLOSURE FOR PHASE 4 AND 5 (MILLING AND PAVING BRIDGE WORK) SHALL ONLY BE IN EFFECT DURING NIGHT TIME BETWEEN X:XX PM TO X:XX AM.
- ALL SIGNAGE IN CONFLICT WITH TEMPORARY TRAFFIC CONTROL (I.E. EXISTING HANDICAP PARKING SIGN) SHALL BE BAGGED DURING PERIODS WHERE WORK ZONE IS IN EFFECT.
- THE CONTRACTOR SHALL CONTACT THE TOWN OF NORWOOD FOR COORDINATION ON PARKING RESTRICTIONS AND ASSOCIATED SIGNAGE.
- THE TOWN OF NORWOOD SHALL COORDINATE WITH THE "BROOKSIDE CAFE" OWNER ON TEMPORARY BLOCKING THE DRIVEWAY EXITING DURING PHASE 3 CONSTRUCTION PHASE.
- THE TOWN OF NORWOOD SHALL COORDINATE WITH THE "DING DOCTOR OF GREATER BOSTON" FOR BLOCKING THE DRIVEWAY DURING THE PHASE 5 BRIDGE PAVING. THE BRIDGE WORK DURATION WILL BE ONLY ONE (1) NIGHT AND THE POLICE ON SITE SHALL GIVE ACCESS, IF FEASIBLE, ONLY TO THE "DING DOCTOR OF GREATER BOSTON" EMPLOYEES AS NEEDED.
- ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM WITH TO THE LAST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND THE MASSACHUSETTS AMENDMENTS TO THE MUTCD.
- ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE M.U.T.C.D.
- TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
- SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).
- DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
- ALL DRUMS AND/OR CONES SHALL BE SET @ 20' O.C. MAX. UNLESS OTHERWISE NOTED OR ADJUSTED BY THE ENGINEER.
- THE FIRST TEN DRUMS OF ALL TAPERS SHALL BE MOUNTED WITH SEQUENTIAL FLASHING WARNING LIGHTS.
- MINIMUM LANE WIDTH TO BE 11'. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
- PAVEMENT MARKING BETWEEN THE TEMPORARY DOUBLE YELLOW LINE TAPERS SHALL BE ERADICATED.
- PHASE 4 AND 5 SHALL INCLUDE TEMPORARY PARKING RESTRICTIONS STARTING AT NOON THE DAY OF PAVING AND ENDING NOON THE FOLLOWING DAY. THE RESTRICTIONS NOTICE SHALL NOTE THAT ANY VEHICLE PARKED DURING THIS TIME WILL BE TOWED.

TOWN OF NORWOOD
CONSERVATION COMMISSION
566 Washington St, Norwood MA

April 3, 2024

Mr. Mark Ryan
Town Engineer
Town of Norwood
1 Lyman St.
Norwood, MA 02062

Subject: Order of Conditions: 251-0554, N2024-04

Dear Mr. Ryan,

Enclosed, please find the Order of Conditions for the above referenced project, for work under the Massachusetts Wetlands Protection Act (Chapter 131, Section 40 of the General Laws of the Commonwealth of Massachusetts) and Norwood Wetlands Protection Bylaw.

Please be sure to abide by the following:

- Record the enclosed Order of Conditions with the Norfolk County Registry of deeds and forward proof of recording to the Norwood Conservation Commission **prior to the start of work.**
- Allow the 10-day appeal period to elapse following the date of issuance prior to the start of work.
- Place a sign displaying the DEP number at the entryway of the project location **prior to the start of work.**
- Forward, **in writing**, the name(s) and telephone number(s) of erosion control monitor(s), field engineers, wetland scientist, and/or other responsible parties for work on the site to this office **prior to the start of work.**
- Ensure that all contractors working on the project have reviewed and understand the enclosed Order of Conditions. Keep a copy of the approved plans and Order of Conditions on the project site for ready access and review by all contractors.
- Contact this office to arrange for a site visit **prior to the start of work.** The reason for said site visit shall be to inspect and approve erosion control installation and location and to discuss other matters of construction as applicable.
- Contact this office to notify us of the project start date no later than 48 hours **prior to the start of work.**
- **Prior to the start of work**, submit in writing the name, address, and telephone number of the party responsible for ongoing maintenance of the stormwater management system components.
- Adhere to **any and all** special conditions related to this project.

It is the burden of the applicant to fully read and understand the enclosed Order of Conditions and to ensure that all conditions and approved plans are complied with. Deviation from the approved plans and Order of Conditions may result in a stop work order and further enforcement actions, as well as the inability to obtain a Certificate of Compliance at project completion.

If you have any questions, please don't hesitate to contact me at crocklen@norwoodma.gov.

Regards,



Carly Rocklen
Conservation Planner
781-384-9239 direct



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 5 – Order of Conditions
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
251-0554, N2024-04
MassDEP File #

eDEP Transaction #
Norwood
City/Town

A. General Information (cont.)

6. Property recorded at the Registry of Deeds for (attach additional information if more than one parcel):
Norfolk
a. County _____ b. Certificate Number (if registered land) _____
N/A _____ N/A _____
c. Book _____ d. Page _____
7. Dates: 1/31/2024 2/28/24 4/3/24
a. Date Notice of Intent Filed b. Date Public Hearing Closed c. Date of Issuance
8. Final Approved Plans and Other Documents (attach additional plan or document references as needed):
Proposed Bridge Preservation - Washington St. over Hawes Brook (Bridge N-25-017 (3JP))
a. Plan Title _____
TEC, Inc. _____ Andrew Spurr, Civil, Engineer, 56540
b. Prepared By _____ c. Signed and Stamped by _____
Varies _____
d. Final Revision Date _____ e. Scale _____
NOI Plan _____ 1/23/24
f. Additional Plan or Document Title _____ g. Date _____

B. Findings

1. Findings pursuant to the Massachusetts Wetlands Protection Act:
- Following the review of the above-referenced Notice of Intent and based on the information provided in this application and presented at the public hearing, this Commission finds that the areas in which work is proposed is significant to the following interests of the Wetlands Protection Act (the Act). Check all that apply:
- a. Public Water Supply b. Land Containing Shellfish c. Prevention of Pollution
d. Private Water Supply e. Fisheries f. Protection of Wildlife Habitat
g. Groundwater Supply h. Storm Damage Prevention i. Flood Control
2. This Commission hereby finds the project, as proposed, is: (check one of the following boxes)

Approved subject to:

- a. the following conditions which are necessary in accordance with the performance standards set forth in the wetlands regulations. This Commission orders that all work shall be performed in accordance with the Notice of Intent referenced above, the following General Conditions, and any other special conditions attached to this Order. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, these conditions shall control.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
251-0554, N2024-04
MassDEP File #

eDEP Transaction #
Norwood
City/Town

B. Findings (cont.)

Denied because:

- b. the proposed work cannot be conditioned to meet the performance standards set forth in the wetland regulations. Therefore, work on this project may not go forward unless and until a new Notice of Intent is submitted which provides measures which are adequate to protect the interests of the Act, and a final Order of Conditions is issued. **A description of the performance standards which the proposed work cannot meet is attached to this Order.**
- c. the information submitted by the applicant is not sufficient to describe the site, the work, or the effect of the work on the interests identified in the Wetlands Protection Act. Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides sufficient information and includes measures which are adequate to protect the Act's interests, and a final Order of Conditions is issued. **A description of the specific information which is lacking and why it is necessary is attached to this Order as per 310 CMR 10.05(6)(c).**
3. Buffer Zone Impacts: Shortest distance between limit of project disturbance and the wetland resource area specified in 310 CMR 10.02(1)(a) _____ a. linear feet

Inland Resource Area Impacts: Check all that apply below. (For Approvals Only)

Resource Area	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
4. <input type="checkbox"/> Bank	_____ a. linear feet	_____ b. linear feet	_____ c. linear feet	_____ d. linear feet
5. <input type="checkbox"/> Bordering Vegetated Wetland	_____ a. square feet	_____ b. square feet	_____ c. square feet	_____ d. square feet
6. <input type="checkbox"/> Land Under Waterbodies and Waterways	_____ a. square feet _____ e. c/y dredged	_____ b. square feet _____ f. c/y dredged	_____ c. square feet	_____ d. square feet
7. <input type="checkbox"/> Bordering Land Subject to Flooding	_____ a. square feet	_____ b. square feet	_____ c. square feet	_____ d. square feet
Cubic Feet Flood Storage	_____ e. cubic feet	_____ f. cubic feet	_____ g. cubic feet	_____ h. cubic feet
8. <input type="checkbox"/> Isolated Land Subject to Flooding	_____ a. square feet	_____ b. square feet		
Cubic Feet Flood Storage	_____ c. cubic feet	_____ d. cubic feet	_____ e. cubic feet	_____ f. cubic feet
9. <input checked="" type="checkbox"/> Riverfront Area	10, 240 _____ a. total sq. feet	10, 240 _____ b. total sq. feet		
Sq ft within 100 ft	8, 980 _____ c. square feet	8, 980 _____ d. square feet	0 _____ e. square feet	0 _____ f. square feet
Sq ft between 100-200 ft	1, 260 _____ g. square feet	1, 260 _____ h. square feet	0 _____ i. square feet	0 _____ j. square feet



**Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands**

WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
251-0554, N2024-04
MassDEP File #

eDEP Transaction #
Norwood
City/Town

B. Findings (cont.)

Coastal Resource Area Impacts: Check all that apply below. (For Approvals Only)

	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
10. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below			
11. <input type="checkbox"/> Land Under the Ocean	_____	_____		
	a. square feet	b. square feet		
	_____	_____		
	c. c/y dredged	d. c/y dredged		
12. <input type="checkbox"/> Barrier Beaches	Indicate size under Coastal Beaches and/or Coastal Dunes below			
13. <input type="checkbox"/> Coastal Beaches	_____	_____	_____ cu yd	_____ cu yd
	a. square feet	b. square feet	c. nourishment	d. nourishment
14. <input type="checkbox"/> Coastal Dunes	_____	_____	_____ cu yd	_____ cu yd
	a. square feet	b. square feet	c. nourishment	d. nourishment
15. <input type="checkbox"/> Coastal Banks	_____	_____		
	a. linear feet	b. linear feet		
16. <input type="checkbox"/> Rocky Intertidal Shores	_____	_____		
	a. square feet	b. square feet		
17. <input type="checkbox"/> Salt Marshes	_____	_____	_____	_____
	a. square feet	b. square feet	c. square feet	d. square feet
18. <input type="checkbox"/> Land Under Salt Ponds	_____	_____		
	a. square feet	b. square feet		
	_____	_____		
	c. c/y dredged	d. c/y dredged		
19. <input type="checkbox"/> Land Containing Shellfish	_____	_____	_____	_____
	a. square feet	b. square feet	c. square feet	d. square feet
20. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, Inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above			
	_____	_____		
	a. c/y dredged	b. c/y dredged		
21. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	_____	_____		
	a. square feet	b. square feet		
22. <input type="checkbox"/> Riverfront Area	_____	_____		
	a. total sq. feet	b. total sq. feet		
Sq ft within 100 ft	_____	_____	_____	_____
	c. square feet	d. square feet	e. square feet	f. square feet
Sq ft between 100-200 ft	_____	_____	_____	_____
	g. square feet	h. square feet	i. square feet	j. square feet



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
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 251-0554, N2024-04
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 Norwood
 City/Town

B. Findings (cont.)

* #23. If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.5.c (BVW) or B.17.c (Salt Marsh) above, please enter the additional amount here.

23. Restoration/Enhancement *:
- | | |
|-----------------------|------------------------------|
| | |
| a. square feet of BVW | b. square feet of salt marsh |
24. Stream Crossing(s):
- | | |
|-----------------------------------|---|
| 0 | (1) - Repair of an Ex. Bridge Structure |
| a. number of new stream crossings | b. number of replacement stream crossings |

C. General Conditions Under Massachusetts Wetlands Protection Act

The following conditions are only applicable to Approved projects.

1. Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Order.
2. The Order does not grant any property rights or any exclusive privileges; it does not authorize any injury to private property or invasion of private rights.
3. This Order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.
4. The work authorized hereunder shall be completed within three years from the date of this Order unless either of the following apply:
 - a. The work is a maintenance dredging project as provided for in the Act; or
 - b. The time for completion has been extended to a specified date more than three years, but less than five years, from the date of issuance. If this Order is intended to be valid for more than three years, the extension date and the special circumstances warranting the extended time period are set forth as a special condition in this Order.
 - c. If the work is for a Test Project, this Order of Conditions shall be valid for no more than one year.
5. This Order may be extended by the issuing authority for one or more periods of up to three years each upon application to the issuing authority at least 30 days prior to the expiration date of the Order. An Order of Conditions for a Test Project may be extended for one additional year only upon written application by the applicant, subject to the provisions of 310 CMR 10.05(11)(f).
6. If this Order constitutes an Amended Order of Conditions, this Amended Order of Conditions does not extend the issuance date of the original Final Order of Conditions and the Order will expire on _____ unless extended in writing by the Department.
7. Any fill used in connection with this project shall be clean fill. Any fill shall contain no trash, refuse, rubbish, or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard, pipe, tires, ashes, refrigerators, motor vehicles, or parts of any of the foregoing.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
251-0554, N2024-04
MassDEP File #

eDEP Transaction #
Norwood
City/Town

C. General Conditions Under Massachusetts Wetlands Protection Act

8. This Order is not final until all administrative appeal periods from this Order have elapsed, or if such an appeal has been taken, until all proceedings before the Department have been completed.
9. No work shall be undertaken until the Order has become final and then has been recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to be done. In the case of the registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done. The recording information shall be submitted to the Conservation Commission on the form at the end of this Order, which form must be stamped by the Registry of Deeds, prior to the commencement of work.
10. A sign shall be displayed at the site not less than two square feet or more than three square feet in size bearing the words,

"Massachusetts Department of Environmental Protection" [or, "MassDEP"]
"File Number 251-0554 "
11. Where the Department of Environmental Protection is requested to issue a Superseding Order, the Conservation Commission shall be a party to all agency proceedings and hearings before MassDEP.
12. Upon completion of the work described herein, the applicant shall submit a Request for Certificate of Compliance (WPA Form 8A) to the Conservation Commission.
13. The work shall conform to the plans and special conditions referenced in this order.
14. Any change to the plans identified in Condition #13 above shall require the applicant to inquire of the Conservation Commission in writing whether the change is significant enough to require the filing of a new Notice of Intent.
15. The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Order at reasonable hours to evaluate compliance with the conditions stated in this Order, and may require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.
16. This Order of Conditions shall apply to any successor in interest or successor in control of the property subject to this Order and to any contractor or other person performing work conditioned by this Order.



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Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

17. Prior to the start of work, and if the project involves work adjacent to a Bordering Vegetated Wetland, the boundary of the wetland in the vicinity of the proposed work area shall be marked by wooden stakes or flagging. Once in place, the wetland boundary markers shall be maintained until a Certificate of Compliance has been issued by the Conservation Commission.
18. All sedimentation barriers shall be maintained in good repair until all disturbed areas have been fully stabilized with vegetation or other means. At no time shall sediments be deposited in a wetland or water body. During construction, the applicant or his/her designee shall inspect the erosion controls on a daily basis and shall remove accumulated sediments as needed. The applicant shall immediately control any erosion problems that occur at the site and shall also immediately notify the Conservation Commission, which reserves the right to require additional erosion and/or damage prevention controls it may deem necessary. Sedimentation barriers shall serve as the limit of work unless another limit of work line has been approved by this Order.
19. The work associated with this Order (the "Project")
- (1) is subject to the Massachusetts Stormwater Standards
- (2) is NOT subject to the Massachusetts Stormwater Standards

If the work is subject to the Stormwater Standards, then the project is subject to the following conditions:

- a) All work, including site preparation, land disturbance, construction and redevelopment, shall be implemented in accordance with the construction period pollution prevention and erosion and sedimentation control plan and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Construction General Permit as required by Stormwater Condition 8. Construction period erosion, sedimentation and pollution control measures and best management practices (BMPs) shall remain in place until the site is fully stabilized.
- b) No stormwater runoff may be discharged to the post-construction stormwater BMPs unless and until a Registered Professional Engineer provides a Certification that:
- i.* all construction period BMPs have been removed or will be removed by a date certain specified in the Certification. For any construction period BMPs intended to be converted to post construction operation for stormwater attenuation, recharge, and/or treatment, the conversion is allowed by the MassDEP Stormwater Handbook BMP specifications and that the BMP has been properly cleaned or prepared for post construction operation, including removal of all construction period sediment trapped in inlet and outlet control structures;
 - ii.* as-built final construction BMP plans are included, signed and stamped by a Registered Professional Engineer, certifying the site is fully stabilized;
 - iii.* any illicit discharges to the stormwater management system have been removed, as per the requirements of Stormwater Standard 10;



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C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

iv. all post-construction stormwater BMPs are installed in accordance with the plans (including all planting plans) approved by the issuing authority, and have been inspected to ensure that they are not damaged and that they are in proper working condition;

v. any vegetation associated with post-construction BMPs is suitably established to withstand erosion.

c) The landowner is responsible for BMP maintenance until the issuing authority is notified that another party has legally assumed responsibility for BMP maintenance. Prior to requesting a Certificate of Compliance, or Partial Certificate of Compliance, the responsible party (defined in General Condition 18(e)) shall execute and submit to the issuing authority an Operation and Maintenance Compliance Statement ("O&M Statement") for the Stormwater BMPs identifying the party responsible for implementing the stormwater BMP Operation and Maintenance Plan ("O&M Plan") and certifying the following:

i.) the O&M Plan is complete and will be implemented upon receipt of the Certificate of Compliance, and

ii.) the future responsible parties shall be notified in writing of their ongoing legal responsibility to operate and maintain the stormwater management BMPs and implement the Stormwater Pollution Prevention Plan.

d) Post-construction pollution prevention and source control shall be implemented in accordance with the long-term pollution prevention plan section of the approved Stormwater Report and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Multi-Sector General Permit.

e) Unless and until another party accepts responsibility, the landowner, or owner of any drainage easement, assumes responsibility for maintaining each BMP. To overcome this presumption, the landowner of the property must submit to the issuing authority a legally binding agreement of record, acceptable to the issuing authority, evidencing that another entity has accepted responsibility for maintaining the BMP, and that the proposed responsible party shall be treated as a permittee for purposes of implementing the requirements of Conditions 19(f) through 19(k) with respect to that BMP. Any failure of the proposed responsible party to implement the requirements of Conditions 19(f) through 19(k) with respect to that BMP shall be a violation of the Order of Conditions or Certificate of Compliance. In the case of stormwater BMPs that are serving more than one lot, the legally binding agreement shall also identify the lots that will be serviced by the stormwater BMPs. A plan and easement deed that grants the responsible party access to perform the required operation and maintenance must be submitted along with the legally binding agreement.

f) The responsible party shall operate and maintain all stormwater BMPs in accordance with the design plans, the O&M Plan, and the requirements of the Massachusetts Stormwater Handbook.



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C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

- g) The responsible party shall:
1. Maintain an operation and maintenance log for the last three (3) consecutive calendar years of inspections, repairs, maintenance and/or replacement of the stormwater management system or any part thereof, and disposal (for disposal the log shall indicate the type of material and the disposal location);
 2. Make the maintenance log available to MassDEP and the Conservation Commission ("Commission") upon request; and
 3. Allow members and agents of the MassDEP and the Commission to enter and inspect the site to evaluate and ensure that the responsible party is in compliance with the requirements for each BMP established in the O&M Plan approved by the issuing authority.
- h) All sediment or other contaminants removed from stormwater BMPs shall be disposed of in accordance with all applicable federal, state, and local laws and regulations.
- i) Illicit discharges to the stormwater management system as defined in 310 CMR 10.04 are prohibited.
- j) The stormwater management system approved in the Order of Conditions shall not be changed without the prior written approval of the issuing authority.
- k) Areas designated as qualifying pervious areas for the purpose of the Low Impact Site Design Credit (as defined in the MassDEP Stormwater Handbook, Volume 3, Chapter 1, Low Impact Development Site Design Credits) shall not be altered without the prior written approval of the issuing authority.
- l) Access for maintenance, repair, and/or replacement of BMPs shall not be withheld. Any fencing constructed around stormwater BMPs shall include access gates and shall be at least six inches above grade to allow for wildlife passage.

Special Conditions (if you need more space for additional conditions, please attach a text document):

Please see attached.

20. For Test Projects subject to 310 CMR 10.05(11), the applicant shall also implement the monitoring plan and the restoration plan submitted with the Notice of Intent. If the conservation commission or Department determines that the Test Project threatens the public health, safety or the environment, the applicant shall implement the removal plan submitted with the Notice of Intent or modify the project as directed by the conservation commission or the Department.



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D. Findings Under Municipal Wetlands Bylaw or Ordinance

1. Is a municipal wetlands bylaw or ordinance applicable? Yes No
2. The Norwood hereby finds (check one that applies):
Conservation Commission
- a. that the proposed work cannot be conditioned to meet the standards set forth in a municipal ordinance or bylaw, specifically:

1. Municipal Ordinance or Bylaw

2. Citation

Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides measures which are adequate to meet these standards, and a final Order of Conditions is issued.

- b. that the following additional conditions are necessary to comply with a municipal ordinance or bylaw:
Norwood Wetlands Protection Bylaw XXV and Regulations

1. Municipal Ordinance or Bylaw

2. Citation

3. The Commission orders that all work shall be performed in accordance with the following conditions and with the Notice of Intent referenced above. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, the conditions shall control.
The special conditions relating to municipal ordinance or bylaw are as follows (if you need more space for additional conditions, attach a text document):

Please see attached.



Massachusetts Department of Environmental Protection
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WPA Form 5 – Order of Conditions
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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E. Signatures

This Order is valid for three years, unless otherwise specified as a special condition pursuant to General Conditions #4, from the date of issuance.

4/3/24
 1. Date of Issuance

Please indicate the number of members who will sign this form. This Order must be signed by a majority of the Conservation Commission.

5
 2. Number of Signers

The Order must be mailed by certified mail (return receipt requested) or hand delivered to the applicant. A copy also must be mailed or hand delivered at the same time to the appropriate Department of Environmental Protection Regional Office, if not filing electronically, and the property owner, if different from applicant.

_____ Signature	_____ Printed Name
_____ Signature	_____ Printed Name
_____ Signature	_____ Printed Name
_____ Signature	_____ Printed Name
_____ Signature	_____ Printed Name
_____ Signature	_____ Printed Name
_____ Signature	_____ Printed Name

by hand delivery on
4/3/24
 Date

by certified mail, return receipt requested, on

 Date

000
 Washington St. bridge repair over Hawes Brook
 251-0554, N2024-04



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

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Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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F. Appeals

The applicant, the owner, any person aggrieved by this Order, any owner of land abutting the land subject to this Order, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate MassDEP Regional Office to issue a Superseding Order of Conditions. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and a completed Request for Departmental Action Fee Transmittal Form, as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Order. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant.

Any appellants seeking to appeal the Department's Superseding Order associated with this appeal will be required to demonstrate prior participation in the review of this project. Previous participation in the permit proceeding means the submission of written information to the Conservation Commission prior to the close of the public hearing, requesting a Superseding Order, or providing written information to the Department prior to issuance of a Superseding Order.

The request shall state clearly and concisely the objections to the Order which is being appealed and how the Order does not contribute to the protection of the interests identified in the Massachusetts Wetlands Protection Act (M.G.L. c. 131, § 40), and is inconsistent with the wetlands regulations (310 CMR 10.00). To the extent that the Order is based on a municipal ordinance or bylaw, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no appellate jurisdiction.



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Provided by MassDEP:
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G. Recording Information

Prior to commencement of work, this Order of Conditions must be recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land subject to the Order. In the case of registered land, this Order shall also be noted on the Land Court Certificate of Title of the owner of the land subject to the Order of Conditions. The recording information on this page shall be submitted to the Conservation Commission listed below.

Norwood
Conservation Commission

Detach on dotted line, have stamped by the Registry of Deeds and submit to the Conservation Commission.

To:

Norwood
Conservation Commission

Please be advised that the Order of Conditions for the Project at:

Washington St. Bridge over Hawes Brook 251-0554
Project Location MassDEP File Number

Has been recorded at the Registry of Deeds of:

	County	Book	Page
for:	Town of Norwood - Mark Ryan, Town Engineer		
	Property Owner		

and has been noted in the chain of title of the affected property in:

Book	Page
------	------

In accordance with the Order of Conditions issued on:

4/3/24
Date

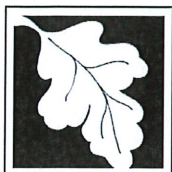
If recorded land, the instrument number identifying this transaction is:

Instrument Number

If registered land, the document number identifying this transaction is:

Document Number

Signature of Applicant



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

**Request for Departmental Action Fee
Transmittal Form**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number:

251-0554, N2024-04
Provided by DEP

A. Request Information

1. Location of Project

Washington St. bridge over Hawes Brook

a. Street Address

Norwood, MA 02062

b. City/Town, Zip

c. Check number

d. Fee amount

2. Person or party making request (if appropriate, name the citizen group's representative):

Name

Mailing Address

City/Town

State

Zip Code

Phone Number

Fax Number (if applicable)

3. Applicant (as shown on Determination of Applicability (Form 2), Order of Resource Area Delineation (Form 4B), Order of Conditions (Form 5), Restoration Order of Conditions (Form 5A), or Notice of Non-Significance (Form 6)):

Town of Norwood - Mark Ryan, Town Engineer

Name

1 Lyman Pl.

Mailing Address

Norwood

City/Town

MA

State

02062

Zip Code

Phone Number

Fax Number (if applicable)

4. DEP File Number:

251-0554

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



B. Instructions

1. When the Departmental action request is for (check one):

- Superseding Order of Conditions – Fee: \$120.00 (single family house projects) or \$245 (all other projects)
- Superseding Determination of Applicability – Fee: \$120
- Superseding Order of Resource Area Delineation – Fee: \$120



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
**Request for Departmental Action Fee
Transmittal Form**

DEP File Number:

251-0554, N2024-04
Provided by DEP

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Instructions (cont.)

Send this form and check or money order, payable to the *Commonwealth of Massachusetts*, to:

Department of Environmental Protection
Box 4062
Boston, MA 02211

2. On a separate sheet attached to this form, state clearly and concisely the objections to the Determination or Order which is being appealed. To the extent that the Determination or Order is based on a municipal bylaw, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no appellate jurisdiction.
3. Send a **copy** of this form and a **copy** of the check or money order with the Request for a Superseding Determination or Order by certified mail or hand delivery to the appropriate DEP Regional Office (see <https://www.mass.gov/service-details/massdep-regional-offices-by-community>).
4. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant.

Norwood Wetlands Protection Bylaw XXV: Conditions

Restoration of Washington St. Bridge over Hawes Brook

N2024-04, 251-0554

Standard General Conditions (in addition to 19 standard conditions included in WPA OOC Form 5)

1. The Order of Conditions must be recorded at the Norfolk County Registry of Deeds before the building permit shall be issued. Construction cannot begin until the order has been recorded and a building permit is obtained. The recording information should be sent to the Norwood Conservation Commission via certified mail.
2. Members of the Norwood Conservation Commission shall have the right to enter upon and inspect the premises to evaluate progress.
3. The Agent for the Norwood Conservation Commission is to be notified of the expected date of start of work one week prior to its commencement.
4. No changes to this project shall begin until the Norwood Conservation Commission has received and approved in writing a plan showing how the items in this Order are to be accomplished.
5. Wetland flagging is to remain in place until the project has been completed and the Certificate of Compliance has been issued.
6. Norwood Conservation Commission reserves the right of last review of all site plans, should those plans be modified from those submitted with the Notice of Intent.
7. The issuance of these conditions does not in any way imply or certify that the site or adjacent areas will not be subject to flooding, storm damage, or any other form of damage due to wetness.
8. This order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state or local ordinances, by-laws and/or regulations.
9. Changes to the Plan or Errors & Omissions - (a) If any plan, calculation, and/or other data presented to the Norwood Conservation Commission is in error or has omissions, and is deemed significant by the Commissioners or their agent, all work will stop at the discretion of the Conservation Commission or their agent.
10. Liability - The applicant shall indemnify and save harmless the Commonwealth, the Town of Norwood, the Conservation Commission, and its agents against all sites, claims or liabilities of every name and nature arising at any time out of, or in consequence of, the acts of the Commission or its agent in the performance of the work covered by this Order and/or failure to comply with the terms and conditions or this Order whether by itself or its employees or subcontractors.
11. Change in Ownership - If a change in ownership takes place while this Order is still in effect, it is the responsibility of the new owner to notify the Commission of the change and to provide the name of the person responsible for compliance with the Order. The Commission shall be notified in writing at the time of all transfers of title on this property prior to the issuance of the

Certificate of Compliance. All buyers, purchasers, successors, and/or assigns shall certify to the Commission receipt of a copy of the plan of record, Notice of Intent, and Order of Conditions for this project. Said certificate shall be made of the Commission thirty (30) days prior to the transfer of title.

Section A – Conditions to Meet Before the Start of Any Activity

12. Inspection - No clearing of vegetation, excavation, grading or other site preparation may begin within one-hundred feet of the resource area until the Commission or one of its representatives inspect the erosion and sediment controls.
13. Notification - The applicant shall notify the Commission 48 hours prior to the start of any activity.
14. Contact Person - Applicant shall notify the Commission of the name(s) and telephone number(s) of person or persons who will be responsible for onsite compliance with the conditions of this Order. The Commission shall be notified as to the means of contact.
15. Contract - This Order of Conditions and all approved plans shall be included as part of any contract and subcontract and shall be posted in a prominently displayed location in the supervisory office on site during all phases of construction.
16. Flagging - Prior to, during and after construction, all wetland flags shall remain in place until removal of flags is approved by the Commission. It is the responsibility of the applicant to maintain these flags until such time as the Commission has issued a Certificate of Compliance.

Section B – Conditions to Meet During Construction

17. Erosion Controls - All erosion and sediment controls shall be monitored, maintained, and adjusted throughout the duration of the project as required to prevent adverse impact to wetlands or stormwater protection zones. Any entrapped sediment or other material shall be removed to an area outside of the 100-foot buffer zone as required by the Commission or its representative. Protective measures shall be installed properly and shall include, as appropriate, but not be limited to: sediment traps, supplemental topsoil, seed or plants, and 100% bio-degradable erosion control matting and/or filter rolls.
18. Run-off - There shall be no flooding, ponding, or flood-related damage caused by the project or by surface runoff emanating from the project onto lands of an abutter, or onto nearby downstream properties. The applicant shall make sufficient provision to control any unexpected drainage and erosion conditions that may arise during construction that may create damage to wetland areas, streams, brooks, and abutting or downstream properties. Said control measures are to be implemented immediately upon need and the Conservation Commission so notified in writing.
19. Delay in Work - If there is an interruption of more than 10, but less than 60 days between completion of grading and revegetation, the applicant shall sow all disturbed areas with annual rye grass to prevent erosion. If soils are to be exposed for longer than 60 days, a temporary cover of rye or other grass should be established following US Soil Conservation Services procedures to prevent erosion and sedimentation. Once final grading is complete, loaming and seeding of final cover should be completed promptly. Vegetative cover, either temporary or

permanent, shall be established prior to winter. If the season is not appropriate for plant growth, exposed surfaces shall be stabilized with jute matting, staked mulches or erosion controls as may be necessary to ensure that any eroded materials will not enter wetlands and water bodies.

20. Oil Spills - During and after work on this project, there shall be no discharge or spillage of fuel, oil, or other pollutants onto any part of the site. The applicant shall take all necessary precautions to prevent the release of pollutants by ignorance, accident, or vandalism.
21. Catch Basins – The paved roadways and parking lots shall be bermed and shall be installed with standard Town of Norwood catch basins. Said basins shall be cleaned at least twice a year and as warranted during and after construction to keep them clean of sediment. Prior to the site being stabilized, catch basin filter traps (e.g., straw bales) shall be placed to prevent sediment from entering drainage structures.
22. Stockpile Maintenance - Any stockpiling of loose materials shall be properly stabilized to prevent wind and water erosion and sedimentation of resource areas. Preventative controls such as straw bales or erosion control matting shall be implemented to prevent such an occurrence.
23. Stormwater System Maintenance – The stormwater management system shall be maintained in good hydraulic condition and be kept free of any litter, refuse, or other extraneous matter. Any accumulated silt/sediment shall be removed.
24. Cement Truck Washout – No discharge of washout effluent directly to resource areas of the 30'; designated washout areas shall be out of the 100'.

Section C – Conditions to Meet After Construction

25. Vegetation - Proper landscaping of embankments and runoff areas including but not limited to grass, vegetation, and shrubbery shall be established before the project is considered complete. Any replicated wetland must be satisfactorily established within two growing seasons before the project is considered complete.
26. Erosion Controls - Hay bales and other erosion controls shall not be removed from the site until all disturbed surfaces have been stabilized with final vegetative cover and written certification has been received from the Commission or one of its representatives stating that erosion controls may be removed. The controls must then be removed within two weeks of receipt of that certification.
27. Certificate of Compliance - Upon completion of the project, the applicant shall request in writing a Certificate of Compliance from the Commission in which he/she shall certify in writing that the work completed conforms to the plans as submitted. If the project has been completed in accordance with plans stamped by a registered professional engineer, architect, landscape architect, or land surveyor, certification must include a written statement by such professional & include an as-built showing topography and any required stormwater management infrastructure.
28. Pesticides, Etc. – No pesticides, herbicides, or fertilizers, with the exception of lime, shall be used on lawn(s) within the 100' buffer zone to a BVW or Bank after completion of the project.
29. Sand/Salt – The use of sand and salt on paved surfaces shall be kept to an absolute minimum during the winter months.

30. All plant species should be of native origin, unless otherwise approved by the Conservation Agent.
31. Flagging - Prior to, during and after construction, all wetland flags shall remain in place until removal of flags is approved by the Commission. It is the responsibility of the applicant to maintain these flags until such time as the Commission has issued a Certificate of Compliance.
32. Stockpile Maintenance - Any stockpiling of loose materials shall be properly stabilized to prevent wind and water erosion and sedimentation of resource areas. Preventative controls such as straw bales or erosion-control matting shall be implemented to prevent such an occurrence.

Special Conditions Specific to this Project

1. Any and all materials that fall from the work site into the riparian corridor of Hawes Brook or into the Brook itself are to be removed from the site by the contractor.
2. Any natural area disturbed during the project work is to be restored using native species, following a planting plan submitted to and approved by the Conservation Agent.



MAURA HEALEY
Governor

KIM DRISCOLL
Lt. Governor

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

Prevailing Wage Rates

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

LAUREN JONES
Secretary

MICHAEL FLANAGAN
Director

Awarding Authority: Norwood, MA
Contract Number: NPW-25-03 **City/Town:** NORWOOD
Description of Work: Concrete patching, Roadway UHPC overlay, Waterproofing membrane, Shear key replacement, Sidewalk mortar, Railing painting, Road repaving, Pavement markings, Catch basin adjustment, Joint sawcutting
Job Location: Washington St Norwood, MA

Information about Prevailing Wage Schedules for Awarding Authorities and Contractors

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

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
Construction						
(2 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE A</i>	08/01/2024	\$41.05	\$14.91	\$18.67	\$0.00	\$74.63
	12/01/2024	\$41.05	\$14.91	\$20.17	\$0.00	\$76.13
	06/01/2025	\$42.05	\$14.91	\$20.17	\$0.00	\$77.13
	08/01/2025	\$42.05	\$15.41	\$20.17	\$0.00	\$77.63
	12/01/2025	\$42.05	\$15.41	\$21.78	\$0.00	\$79.24
	06/01/2026	\$43.05	\$15.41	\$21.78	\$0.00	\$80.24
	08/01/2026	\$43.05	\$15.91	\$21.78	\$0.00	\$80.74
	12/01/2026	\$43.05	\$15.91	\$23.52	\$0.00	\$82.48
(3 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE A</i>	08/01/2024	\$40.88	\$14.91	\$18.67	\$0.00	\$74.46
	12/01/2024	\$40.88	\$14.91	\$20.17	\$0.00	\$75.96
	06/01/2025	\$41.12	\$14.91	\$20.17	\$0.00	\$76.20
	08/01/2025	\$41.12	\$15.41	\$20.17	\$0.00	\$76.70
	12/01/2025	\$41.12	\$15.41	\$21.78	\$0.00	\$78.31
	06/01/2026	\$43.12	\$15.41	\$21.78	\$0.00	\$80.31
	08/01/2026	\$43.12	\$15.91	\$21.78	\$0.00	\$80.81
	12/01/2026	\$43.12	\$15.91	\$23.52	\$0.00	\$82.55
(4 & 5 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE A</i>	08/01/2024	\$41.24	\$14.91	\$18.67	\$0.00	\$74.82
	12/01/2024	\$41.24	\$14.91	\$20.17	\$0.00	\$76.32
	06/01/2025	\$42.24	\$14.91	\$20.17	\$0.00	\$77.32
	08/01/2025	\$42.24	\$15.41	\$20.17	\$0.00	\$77.82
	12/01/2025	\$42.24	\$15.41	\$21.78	\$0.00	\$79.43
	06/01/2026	\$43.24	\$15.41	\$21.78	\$0.00	\$80.43
	08/01/2026	\$43.24	\$15.91	\$21.78	\$0.00	\$80.93
	12/01/2026	\$43.24	\$15.91	\$23.52	\$0.00	\$82.67
ADS/SUBMERSIBLE PILOT <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2020	\$103.05	\$9.40	\$23.12	\$0.00	\$135.57
For apprentice rates see "Apprentice- PILE DRIVER"						
AIR TRACK OPERATOR <i>LABORERS - ZONE 2</i>	06/01/2024	\$39.28	\$9.65	\$18.40	\$0.00	\$67.33
	12/01/2024	\$40.61	\$9.65	\$18.40	\$0.00	\$68.66
	06/01/2025	\$42.00	\$9.65	\$18.40	\$0.00	\$70.05
	12/01/2025	\$43.38	\$9.65	\$18.40	\$0.00	\$71.43
	06/01/2026	\$44.82	\$9.65	\$18.40	\$0.00	\$72.87
	12/01/2026	\$46.26	\$9.65	\$18.40	\$0.00	\$74.31
	06/01/2027	\$47.71	\$9.65	\$18.40	\$0.00	\$75.76
	12/01/2027	\$49.16	\$9.65	\$18.40	\$0.00	\$77.21
	06/01/2028	\$50.66	\$9.65	\$18.40	\$0.00	\$78.71
	12/01/2028	\$52.16	\$9.65	\$18.40	\$0.00	\$80.21
For apprentice rates see "Apprentice- LABORER"						
AIR TRACK OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	06/01/2024	\$39.28	\$9.65	\$17.80	\$0.00	\$66.73
	12/01/2024	\$40.61	\$9.65	\$17.80	\$0.00	\$68.06
	06/01/2025	\$42.00	\$9.65	\$17.80	\$0.00	\$69.45
	12/01/2025	\$43.38	\$9.65	\$17.80	\$0.00	\$70.83
	06/01/2026	\$44.82	\$9.65	\$17.80	\$0.00	\$72.27
	12/01/2026	\$46.26	\$9.65	\$17.80	\$0.00	\$73.71
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
ASBESTOS REMOVER - PIPE / MECH. EQUIPT. <i>HEAT & FROST INSULATORS LOCAL 6 (BOSTON)</i>	06/01/2024	\$41.80	\$14.50	\$11.05	\$0.00	\$67.35
	12/01/2024	\$42.80	\$14.50	\$11.05	\$0.00	\$68.35
	06/01/2025	\$43.80	\$14.50	\$11.05	\$0.00	\$69.35
	12/01/2025	\$44.80	\$14.50	\$11.05	\$0.00	\$70.35
ASPHALT RAKER <i>LABORERS - ZONE 2</i>	06/01/2024	\$38.78	\$9.65	\$18.40	\$0.00	\$66.83
	12/01/2024	\$40.11	\$9.65	\$18.40	\$0.00	\$68.16
	06/01/2025	\$41.50	\$9.65	\$18.40	\$0.00	\$69.55
	12/01/2025	\$42.88	\$9.65	\$18.40	\$0.00	\$70.93
	06/01/2026	\$44.32	\$9.65	\$18.40	\$0.00	\$72.37
	12/01/2026	\$45.76	\$9.65	\$18.40	\$0.00	\$73.81
	06/01/2027	\$47.21	\$9.65	\$18.40	\$0.00	\$75.26
	12/01/2027	\$48.66	\$9.65	\$18.40	\$0.00	\$76.71
	06/01/2028	\$50.16	\$9.65	\$18.40	\$0.00	\$78.21
	12/01/2028	\$51.66	\$9.65	\$18.40	\$0.00	\$79.71
For apprentice rates see "Apprentice- LABORER"						
ASPHALT RAKER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	06/01/2024	\$38.78	\$9.65	\$17.80	\$0.00	\$66.23
	12/01/2024	\$40.11	\$9.65	\$17.80	\$0.00	\$67.56
	06/01/2025	\$41.50	\$9.65	\$17.80	\$0.00	\$68.95
	12/01/2025	\$42.88	\$9.65	\$17.80	\$0.00	\$70.33
	06/01/2026	\$44.32	\$9.65	\$17.80	\$0.00	\$71.77
	12/01/2026	\$45.76	\$9.65	\$17.80	\$0.00	\$73.21
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2024	\$56.03	\$15.30	\$16.40	\$0.00	\$87.73
	12/01/2024	\$57.48	\$15.30	\$16.40	\$0.00	\$89.18
	06/01/2025	\$58.78	\$15.30	\$16.40	\$0.00	\$90.48
	12/01/2025	\$60.23	\$15.30	\$16.40	\$0.00	\$91.93
	06/01/2026	\$61.53	\$15.30	\$16.40	\$0.00	\$93.23
	12/01/2026	\$62.98	\$15.30	\$16.40	\$0.00	\$94.68
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BACKHOE/FRONT-END LOADER <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2024	\$56.03	\$15.30	\$16.40	\$0.00	\$87.73
	12/01/2024	\$57.48	\$15.30	\$16.40	\$0.00	\$89.18
	06/01/2025	\$58.78	\$15.30	\$16.40	\$0.00	\$90.48
	12/01/2025	\$60.23	\$15.30	\$16.40	\$0.00	\$91.93
	06/01/2026	\$61.53	\$15.30	\$16.40	\$0.00	\$93.23
	12/01/2026	\$62.98	\$15.30	\$16.40	\$0.00	\$94.68
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BARCO-TYPE JUMPING TAMPER <i>LABORERS - ZONE 2</i>	06/01/2024	\$38.78	\$9.65	\$18.40	\$0.00	\$66.83
	12/01/2024	\$40.11	\$9.65	\$18.40	\$0.00	\$68.16
	06/01/2025	\$41.50	\$9.65	\$18.40	\$0.00	\$69.55
	12/01/2025	\$42.88	\$9.65	\$18.40	\$0.00	\$70.93
	06/01/2026	\$44.32	\$9.65	\$18.40	\$0.00	\$72.37
	12/01/2026	\$45.76	\$9.65	\$18.40	\$0.00	\$73.81
	06/01/2027	\$47.21	\$9.65	\$18.40	\$0.00	\$75.26
	12/01/2027	\$48.66	\$9.65	\$18.40	\$0.00	\$76.71
	06/01/2028	\$50.16	\$9.65	\$18.40	\$0.00	\$78.21
	12/01/2028	\$51.66	\$9.65	\$18.40	\$0.00	\$79.71

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LABORER"						
BLOCK PAVER, RAMMER / CURB SETTER <i>LABORERS - ZONE 2</i>	06/01/2024	\$39.28	\$9.65	\$18.40	\$0.00	\$67.33
	12/01/2024	\$40.61	\$9.65	\$18.40	\$0.00	\$68.66
	06/01/2025	\$42.00	\$9.65	\$18.40	\$0.00	\$70.05
	12/01/2025	\$43.38	\$9.65	\$18.40	\$0.00	\$71.43
	06/01/2026	\$44.82	\$9.65	\$18.40	\$0.00	\$72.87
	12/01/2026	\$46.26	\$9.65	\$18.40	\$0.00	\$74.31
	06/01/2027	\$47.71	\$9.65	\$18.40	\$0.00	\$75.76
	12/01/2027	\$49.16	\$9.65	\$18.40	\$0.00	\$77.21
	06/01/2028	\$50.66	\$9.65	\$18.40	\$0.00	\$78.71
	12/01/2028	\$52.16	\$9.65	\$18.40	\$0.00	\$80.21
For apprentice rates see "Apprentice- LABORER"						
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	06/01/2024	\$39.28	\$9.65	\$17.80	\$0.00	\$66.73
	12/01/2024	\$40.61	\$9.65	\$17.80	\$0.00	\$68.06
	06/01/2025	\$42.00	\$9.65	\$17.80	\$0.00	\$69.45
	12/01/2025	\$43.38	\$9.65	\$17.80	\$0.00	\$70.83
	06/01/2026	\$44.82	\$9.65	\$17.80	\$0.00	\$72.27
	12/01/2026	\$46.26	\$9.65	\$17.80	\$0.00	\$73.71
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
BOILER MAKER <i>BOILERMAKERS LOCAL 29</i>	01/01/2024	\$48.12	\$7.07	\$20.60	\$0.00	\$75.79

Apprentice - BOILERMAKER - Local 29

Effective Date - 01/01/2024

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

Notes:

Apprentice to Journeyworker Ratio:1:4

BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING) <i>BRICKLAYERS LOCAL 3 (FOXBORO)</i>	08/01/2024	\$62.36	\$11.49	\$22.90	\$0.00	\$96.75
	02/01/2025	\$63.66	\$11.49	\$22.90	\$0.00	\$98.05
	08/01/2025	\$65.81	\$11.49	\$22.90	\$0.00	\$100.20
	02/01/2026	\$67.16	\$11.49	\$22.90	\$0.00	\$101.55
	08/01/2026	\$69.36	\$11.49	\$22.90	\$0.00	\$103.75
	02/01/2027	\$70.76	\$11.49	\$22.90	\$0.00	\$105.15

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

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

Effective Date - 08/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$31.18	\$11.49	\$22.90	\$0.00	\$65.57
2	60	\$37.42	\$11.49	\$22.90	\$0.00	\$71.81
3	70	\$43.65	\$11.49	\$22.90	\$0.00	\$78.04
4	80	\$49.89	\$11.49	\$22.90	\$0.00	\$84.28
5	90	\$56.12	\$11.49	\$22.90	\$0.00	\$90.51

Effective Date - 02/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$31.83	\$11.49	\$22.90	\$0.00	\$66.22
2	60	\$38.20	\$11.49	\$22.90	\$0.00	\$72.59
3	70	\$44.56	\$11.49	\$22.90	\$0.00	\$78.95
4	80	\$50.93	\$11.49	\$22.90	\$0.00	\$85.32
5	90	\$57.29	\$11.49	\$22.90	\$0.00	\$91.68

Notes:

Apprentice to Journeyworker Ratio:1:5

BULLDOZER/GRADER/SCRAPER	06/01/2024	\$55.41	\$15.30	\$16.40	\$0.00	\$87.11
<i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2024	\$56.85	\$15.30	\$16.40	\$0.00	\$88.55
	06/01/2025	\$58.13	\$15.30	\$16.40	\$0.00	\$89.83
	12/01/2025	\$59.57	\$15.30	\$16.40	\$0.00	\$91.27
	06/01/2026	\$60.85	\$15.30	\$16.40	\$0.00	\$92.55
	12/01/2026	\$62.29	\$15.30	\$16.40	\$0.00	\$93.99

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

CAISSON & UNDERPINNING BOTTOM MAN	06/01/2024	\$46.63	\$9.65	\$18.22	\$0.00	\$74.50
<i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2024	\$48.10	\$9.65	\$18.22	\$0.00	\$75.97
	06/01/2025	\$49.60	\$9.65	\$18.22	\$0.00	\$77.47
	12/01/2025	\$51.10	\$9.65	\$18.22	\$0.00	\$78.97
	06/01/2026	\$52.65	\$9.65	\$18.22	\$0.00	\$80.52
	12/01/2026	\$54.15	\$9.65	\$18.22	\$0.00	\$82.02

For apprentice rates see "Apprentice- LABORER"

CAISSON & UNDERPINNING LABORER	06/01/2024	\$45.48	\$9.65	\$18.22	\$0.00	\$73.35
<i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2024	\$46.95	\$9.65	\$18.22	\$0.00	\$74.82
	06/01/2025	\$48.45	\$9.65	\$18.22	\$0.00	\$76.32
	12/01/2025	\$49.95	\$9.65	\$18.22	\$0.00	\$77.82
	06/01/2026	\$51.50	\$9.65	\$18.22	\$0.00	\$79.37
	12/01/2026	\$53.00	\$9.65	\$18.22	\$0.00	\$80.87

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
CAISSON & UNDERPINNING TOP MAN <i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2024	\$45.81	\$9.65	\$18.22	\$0.00	\$73.68
	12/01/2024	\$47.28	\$9.65	\$18.22	\$0.00	\$75.15
	06/01/2025	\$48.78	\$9.65	\$18.22	\$0.00	\$76.65
	12/01/2025	\$50.28	\$9.65	\$18.22	\$0.00	\$78.15
	06/01/2026	\$51.83	\$9.65	\$18.22	\$0.00	\$79.70
	12/01/2026	\$53.33	\$9.65	\$18.22	\$0.00	\$81.20
	For apprentice rates see "Apprentice- LABORER"					
CARBIDE CORE DRILL OPERATOR <i>LABORERS - ZONE 2</i>	06/01/2024	\$38.78	\$9.65	\$18.40	\$0.00	\$66.83
	12/01/2024	\$40.11	\$9.65	\$18.40	\$0.00	\$68.16
	06/01/2025	\$41.50	\$9.65	\$18.40	\$0.00	\$69.55
	12/01/2025	\$42.88	\$9.65	\$18.40	\$0.00	\$70.93
	06/01/2026	\$44.32	\$9.65	\$18.40	\$0.00	\$72.37
	12/01/2026	\$45.76	\$9.65	\$18.40	\$0.00	\$73.81
	06/01/2027	\$47.21	\$9.65	\$18.40	\$0.00	\$75.26
	12/01/2027	\$48.66	\$9.65	\$18.40	\$0.00	\$76.71
	06/01/2028	\$50.16	\$9.65	\$18.40	\$0.00	\$78.21
12/01/2028	\$51.66	\$9.65	\$18.40	\$0.00	\$79.71	
For apprentice rates see "Apprentice- LABORER"						
CARPENTER <i>CARPENTERS -ZONE 2 (Eastern Massachusetts)</i>	09/01/2024	\$48.37	\$9.83	\$19.97	\$0.00	\$78.17
	03/01/2025	\$49.62	\$9.83	\$19.97	\$0.00	\$79.42
	09/01/2025	\$50.87	\$9.83	\$19.97	\$0.00	\$80.67
	03/01/2026	\$52.12	\$9.83	\$19.97	\$0.00	\$81.92
	09/01/2026	\$53.37	\$9.83	\$19.97	\$0.00	\$83.17
	03/01/2027	\$54.62	\$9.83	\$19.97	\$0.00	\$84.42

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - CARPENTER - Zone 2 Eastern MA

Effective Date - 09/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$21.77	\$9.83	\$1.73	\$0.00	\$33.33
2	45	\$21.77	\$9.83	\$1.73	\$0.00	\$33.33
3	55	\$26.60	\$9.83	\$3.40	\$0.00	\$39.83
4	55	\$26.60	\$9.83	\$3.40	\$0.00	\$39.83
5	70	\$33.86	\$9.83	\$16.51	\$0.00	\$60.20
6	70	\$33.86	\$9.83	\$16.51	\$0.00	\$60.20
7	80	\$38.70	\$9.83	\$18.24	\$0.00	\$66.77
8	80	\$38.70	\$9.83	\$18.24	\$0.00	\$66.77

Effective Date - 03/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$22.33	\$9.83	\$1.73	\$0.00	\$33.89
2	45	\$22.33	\$9.83	\$1.73	\$0.00	\$33.89
3	55	\$27.29	\$9.83	\$3.40	\$0.00	\$40.52
4	55	\$27.29	\$9.83	\$3.40	\$0.00	\$40.52
5	70	\$34.73	\$9.83	\$16.51	\$0.00	\$61.07
6	70	\$34.73	\$9.83	\$16.51	\$0.00	\$61.07
7	80	\$39.70	\$9.83	\$18.24	\$0.00	\$67.77
8	80	\$39.70	\$9.83	\$18.24	\$0.00	\$67.77

Notes:

Apprentice to Journeyworker Ratio:1:5

CARPENTER WOOD FRAME	10/01/2024	\$26.65	\$7.02	\$4.80	\$0.00	\$38.47
CARPENTERS-ZONE 3 (Wood Frame)	10/01/2025	\$27.75	\$7.02	\$4.80	\$0.00	\$39.57
	10/01/2026	\$28.85	\$7.02	\$4.80	\$0.00	\$40.67

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 - 10/01/2024

Table with 7 columns: Step, percent, Apprentice Base Wage, Health, Pension, Supplemental Unemployment, Total Rate. Rows 1-8 showing wage progression from \$15.99 to \$23.99.

Effective Date - 10/01/2025

Table with 7 columns: Step, percent, Apprentice Base Wage, Health, Pension, Supplemental Unemployment, Total Rate. Rows 1-8 showing wage progression from \$16.65 to \$24.98.

Notes:

Apprentice to Journeyworker Ratio:1:5

CEMENT MASONRY/PLASTERING 01/01/2024 \$49.33 \$13.00 \$23.57 \$1.30 \$87.20
BRICKLAYERS LOCAL 3 (FOXBORO)

Apprentice - CEMENT MASONRY/PLASTERING - Foxboro

Effective Date - 01/01/2024

Table with 7 columns: Step, percent, Apprentice Base Wage, Health, Pension, Supplemental Unemployment, Total Rate. Rows 1-7 showing wage progression from \$24.67 to \$44.40.

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>	06/01/2024	\$38.78	\$9.65	\$18.40	\$0.00	\$66.83
	12/01/2024	\$40.11	\$9.65	\$18.40	\$0.00	\$68.16
	06/01/2025	\$41.50	\$9.65	\$18.40	\$0.00	\$69.55
	12/01/2025	\$42.88	\$9.65	\$18.40	\$0.00	\$70.93
	06/01/2026	\$44.32	\$9.65	\$18.40	\$0.00	\$72.37
	12/01/2026	\$45.76	\$9.65	\$18.40	\$0.00	\$73.81
	06/01/2027	\$47.21	\$9.65	\$18.40	\$0.00	\$75.26
	12/01/2027	\$48.66	\$9.65	\$18.40	\$0.00	\$76.71
	06/01/2028	\$50.16	\$9.65	\$18.40	\$0.00	\$78.21
	12/01/2028	\$51.66	\$9.65	\$18.40	\$0.00	\$79.71
For apprentice rates see "Apprentice- LABORER"						
CLAM SHELLS/SLURRY BUCKETS/HEADING MACHINES <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2024	\$57.15	\$15.30	\$16.40	\$0.00	\$88.85
	12/01/2024	\$58.63	\$15.30	\$16.40	\$0.00	\$90.33
	06/01/2025	\$59.96	\$15.30	\$16.40	\$0.00	\$91.66
	12/01/2025	\$61.43	\$15.30	\$16.40	\$0.00	\$93.13
	06/01/2026	\$62.76	\$15.30	\$16.40	\$0.00	\$94.46
	12/01/2026	\$64.24	\$15.30	\$16.40	\$0.00	\$95.94
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
COMPRESSOR OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2024	\$36.17	\$15.30	\$16.40	\$0.00	\$67.87
	12/01/2024	\$37.12	\$15.30	\$16.40	\$0.00	\$68.82
	06/01/2025	\$37.97	\$15.30	\$16.40	\$0.00	\$69.67
	12/01/2025	\$38.92	\$15.30	\$16.40	\$0.00	\$70.62
	06/01/2026	\$39.78	\$15.30	\$16.40	\$0.00	\$71.48
	12/01/2026	\$40.73	\$15.30	\$16.40	\$0.00	\$72.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
DELEADER (BRIDGE) <i>PAINTERS LOCAL 35 - ZONE 2</i>	07/01/2024	\$57.26	\$9.95	\$23.95	\$0.00	\$91.16
	01/01/2025	\$58.46	\$9.95	\$23.95	\$0.00	\$92.36

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 07/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$28.63	\$9.95	\$0.00	\$0.00	\$38.58
2	55	\$31.49	\$9.95	\$6.66	\$0.00	\$48.10
3	60	\$34.36	\$9.95	\$7.26	\$0.00	\$51.57
4	65	\$37.22	\$9.95	\$7.87	\$0.00	\$55.04
5	70	\$40.08	\$9.95	\$20.32	\$0.00	\$70.35
6	75	\$42.95	\$9.95	\$20.93	\$0.00	\$73.83
7	80	\$45.81	\$9.95	\$21.53	\$0.00	\$77.29
8	90	\$51.53	\$9.95	\$22.74	\$0.00	\$84.22

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$29.23	\$9.95	\$0.00	\$0.00	\$39.18
2	55	\$32.15	\$9.95	\$6.66	\$0.00	\$48.76
3	60	\$35.08	\$9.95	\$7.26	\$0.00	\$52.29
4	65	\$38.00	\$9.95	\$7.87	\$0.00	\$55.82
5	70	\$40.92	\$9.95	\$20.32	\$0.00	\$71.19
6	75	\$43.85	\$9.95	\$20.93	\$0.00	\$74.73
7	80	\$46.77	\$9.95	\$21.53	\$0.00	\$78.25
8	90	\$52.61	\$9.95	\$22.74	\$0.00	\$85.30

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

DEMO: ADZEMAN	06/10/2024	\$45.53	\$9.65	\$18.40	\$0.00	\$73.58
LABORERS - ZONE 2	12/02/2024	\$47.00	\$9.65	\$18.40	\$0.00	\$75.05
	06/02/2025	\$48.50	\$9.65	\$18.40	\$0.00	\$76.55
	12/01/2025	\$50.00	\$9.65	\$18.40	\$0.00	\$78.05
	06/01/2026	\$51.55	\$9.65	\$18.40	\$0.00	\$79.60
	12/07/2026	\$53.05	\$9.65	\$18.40	\$0.00	\$81.10
	06/07/2027	\$54.65	\$9.65	\$18.40	\$0.00	\$82.70
	12/06/2027	\$56.25	\$9.65	\$18.40	\$0.00	\$84.30
	06/05/2028	\$57.93	\$9.65	\$18.40	\$0.00	\$85.98
	12/04/2028	\$59.60	\$9.65	\$18.40	\$0.00	\$87.65

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
DEMO: BACKHOE/LOADER/HAMMER OPERATOR <i>LABORERS - ZONE 2</i>	06/10/2024	\$46.53	\$9.65	\$18.40	\$0.00	\$74.58
	12/02/2024	\$48.00	\$9.65	\$18.40	\$0.00	\$76.05
	06/02/2025	\$49.50	\$9.65	\$18.40	\$0.00	\$77.55
	12/01/2025	\$51.00	\$9.65	\$18.40	\$0.00	\$79.05
	06/01/2026	\$52.55	\$9.65	\$18.40	\$0.00	\$80.60
	12/07/2026	\$54.05	\$9.65	\$18.40	\$0.00	\$82.10
	06/07/2027	\$55.65	\$9.65	\$18.40	\$0.00	\$83.70
	12/06/2027	\$57.25	\$9.65	\$18.40	\$0.00	\$85.30
	06/05/2028	\$58.93	\$9.65	\$18.40	\$0.00	\$86.98
	12/04/2028	\$60.60	\$9.65	\$18.40	\$0.00	\$88.65
For apprentice rates see "Apprentice- LABORER"						
DEMO: BURNERS <i>LABORERS - ZONE 2</i>	06/10/2024	\$46.28	\$9.65	\$18.40	\$0.00	\$74.33
	12/02/2024	\$47.75	\$9.65	\$18.40	\$0.00	\$75.80
	06/02/2025	\$49.25	\$9.65	\$18.40	\$0.00	\$77.30
	12/01/2025	\$50.75	\$9.65	\$18.40	\$0.00	\$78.80
	06/01/2026	\$52.30	\$9.65	\$18.40	\$0.00	\$80.35
	12/07/2026	\$53.80	\$9.65	\$18.40	\$0.00	\$81.85
	06/07/2027	\$55.40	\$9.65	\$18.40	\$0.00	\$83.45
	12/06/2027	\$57.00	\$9.65	\$18.40	\$0.00	\$85.05
	06/05/2028	\$58.68	\$9.65	\$18.40	\$0.00	\$86.73
	12/04/2028	\$60.35	\$9.65	\$18.40	\$0.00	\$88.40
For apprentice rates see "Apprentice- LABORER"						
DEMO: CONCRETE CUTTER/SAWYER <i>LABORERS - ZONE 2</i>	06/10/2024	\$46.53	\$9.65	\$18.40	\$0.00	\$74.58
	12/02/2024	\$48.00	\$9.65	\$18.40	\$0.00	\$76.05
	06/02/2025	\$49.50	\$9.65	\$18.40	\$0.00	\$77.55
	12/01/2025	\$51.00	\$9.65	\$18.40	\$0.00	\$79.05
	06/01/2026	\$52.55	\$9.65	\$18.40	\$0.00	\$80.60
	12/07/2026	\$54.05	\$9.65	\$18.40	\$0.00	\$82.10
	06/07/2027	\$55.65	\$9.65	\$18.40	\$0.00	\$83.70
	12/06/2027	\$57.25	\$9.65	\$18.40	\$0.00	\$85.30
	06/05/2028	\$58.93	\$9.65	\$18.40	\$0.00	\$86.98
	12/04/2028	\$60.60	\$9.65	\$18.40	\$0.00	\$88.65
For apprentice rates see "Apprentice- LABORER"						
DEMO: JACKHAMMER OPERATOR <i>LABORERS - ZONE 2</i>	06/10/2024	\$46.28	\$9.65	\$18.40	\$0.00	\$74.33
	12/02/2024	\$47.75	\$9.65	\$18.40	\$0.00	\$75.80
	06/02/2025	\$49.25	\$9.65	\$18.40	\$0.00	\$77.30
	12/01/2025	\$50.75	\$9.65	\$18.40	\$0.00	\$78.80
	06/01/2026	\$52.30	\$9.65	\$18.40	\$0.00	\$80.35
	12/07/2026	\$53.80	\$9.65	\$18.40	\$0.00	\$81.85
	06/07/2027	\$55.40	\$9.65	\$18.40	\$0.00	\$83.45
	12/06/2027	\$57.00	\$9.65	\$18.40	\$0.00	\$85.05
	06/05/2028	\$58.68	\$9.65	\$18.40	\$0.00	\$86.73
	12/04/2028	\$60.35	\$9.65	\$18.40	\$0.00	\$88.40
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
DEMO: WRECKING LABORER <i>LABORERS - ZONE 2</i>	06/10/2024	\$45.53	\$9.65	\$18.40	\$0.00	\$73.58
	12/02/2024	\$47.00	\$9.65	\$18.40	\$0.00	\$75.05
	06/02/2025	\$48.50	\$9.65	\$18.40	\$0.00	\$76.55
	12/01/2025	\$50.00	\$9.65	\$18.40	\$0.00	\$78.05
	06/01/2026	\$51.55	\$9.65	\$18.40	\$0.00	\$79.60
	12/07/2026	\$53.05	\$9.65	\$18.40	\$0.00	\$81.10
	06/07/2027	\$54.65	\$9.65	\$18.40	\$0.00	\$82.70
	12/06/2027	\$56.25	\$9.65	\$18.40	\$0.00	\$84.30
	06/05/2028	\$57.93	\$9.65	\$18.40	\$0.00	\$85.98
	12/04/2028	\$59.60	\$9.65	\$18.40	\$0.00	\$87.65
For apprentice rates see "Apprentice- LABORER"						
DIRECTIONAL DRILL MACHINE OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2024	\$55.41	\$15.30	\$16.40	\$0.00	\$87.11
	12/01/2024	\$56.85	\$15.30	\$16.40	\$0.00	\$88.55
	06/01/2025	\$58.13	\$15.30	\$16.40	\$0.00	\$89.83
	12/01/2025	\$59.57	\$15.30	\$16.40	\$0.00	\$91.27
	06/01/2026	\$60.85	\$15.30	\$16.40	\$0.00	\$92.55
	12/01/2026	\$62.29	\$15.30	\$16.40	\$0.00	\$93.99
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
DIVER <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2020	\$68.70	\$9.40	\$23.12	\$0.00	\$101.22
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2020	\$49.07	\$9.40	\$23.12	\$0.00	\$81.59
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2020	\$73.60	\$9.40	\$23.12	\$0.00	\$106.12
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER/SLURRY (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2020	\$103.05	\$9.40	\$23.12	\$0.00	\$135.57
For apprentice rates see "Apprentice- PILE DRIVER"						
DRAWBRIDGE OPERATOR (Construction) <i>DRAWBRIDGE - SEIU LOCAL 888</i>	07/01/2020	\$26.77	\$6.67	\$3.93	\$0.16	\$37.53
ELECTRICIAN <i>ELECTRICIANS LOCAL 103</i>	09/01/2024	\$63.78	\$13.00	\$22.26	\$0.00	\$99.04
	03/01/2025	\$64.98	\$13.00	\$22.30	\$0.00	\$100.28
	09/01/2025	\$66.89	\$13.00	\$22.36	\$0.00	\$102.25
	03/01/2026	\$68.09	\$13.00	\$22.39	\$0.00	\$103.48
	09/01/2026	\$70.00	\$13.00	\$22.45	\$0.00	\$105.45
	03/01/2027	\$71.19	\$13.00	\$22.49	\$0.00	\$106.68
	09/01/2027	\$73.11	\$13.00	\$22.54	\$0.00	\$108.65
	03/01/2028	\$74.31	\$13.00	\$22.58	\$0.00	\$109.89

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - ELECTRICIAN - Local 103

Effective Date - 09/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$25.51	\$13.00	\$0.77	\$0.00	\$39.28
2	40	\$25.51	\$13.00	\$0.77	\$0.00	\$39.28
3	45	\$28.70	\$13.00	\$16.69	\$0.00	\$58.39
4	45	\$28.70	\$13.00	\$16.69	\$0.00	\$58.39
5	50	\$31.89	\$13.00	\$17.20	\$0.00	\$62.09
6	55	\$35.08	\$13.00	\$17.70	\$0.00	\$65.78
7	60	\$38.27	\$13.00	\$18.21	\$0.00	\$69.48
8	65	\$41.46	\$13.00	\$18.71	\$0.00	\$73.17
9	70	\$44.65	\$13.00	\$19.22	\$0.00	\$76.87
10	75	\$47.84	\$13.00	\$19.74	\$0.00	\$80.58

Effective Date - 03/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$25.99	\$13.00	\$0.78	\$0.00	\$39.77
2	40	\$25.99	\$13.00	\$0.78	\$0.00	\$39.77
3	45	\$29.24	\$13.00	\$16.71	\$0.00	\$58.95
4	45	\$29.24	\$13.00	\$16.71	\$0.00	\$58.95
5	50	\$32.49	\$13.00	\$17.21	\$0.00	\$62.70
6	55	\$35.74	\$13.00	\$17.72	\$0.00	\$66.46
7	60	\$38.99	\$13.00	\$18.23	\$0.00	\$70.22
8	65	\$42.24	\$13.00	\$18.74	\$0.00	\$73.98
9	70	\$45.49	\$13.00	\$19.24	\$0.00	\$77.73
10	75	\$48.74	\$13.00	\$19.76	\$0.00	\$81.50

Notes :

Apprentice to Journeyworker Ratio:2:3***

ELEVATOR CONSTRUCTOR	01/01/2022	\$65.62	\$16.03	\$20.21	\$0.00	\$101.86
ELEVATOR CONSTRUCTORS LOCAL 4						

Apprentice - ELEVATOR CONSTRUCTOR - Local 4

Effective Date - 01/01/2022

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

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

Apprentice to Journeyworker Ratio:1:1

ELEVATOR CONSTRUCTOR HELPER <i>ELEVATOR CONSTRUCTORS LOCAL 4</i>	01/01/2022	\$45.93	\$16.03	\$20.21	\$0.00	\$82.17
For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"						
FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	06/01/2024	\$38.78	\$9.65	\$17.80	\$0.00	\$66.23
	12/01/2024	\$40.11	\$9.65	\$17.80	\$0.00	\$67.56
	06/01/2025	\$41.50	\$9.65	\$17.80	\$0.00	\$68.95
	12/01/2025	\$42.88	\$9.65	\$17.80	\$0.00	\$70.33
	06/01/2026	\$44.32	\$9.65	\$17.80	\$0.00	\$71.77
	12/01/2026	\$45.76	\$9.65	\$17.80	\$0.00	\$73.21
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
FIELD ENG.INST.PERSON-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	11/01/2024	\$52.08	\$15.00	\$16.40	\$0.00	\$83.48
	05/01/2025	\$53.52	\$15.00	\$16.40	\$0.00	\$84.92
	11/01/2025	\$54.81	\$15.00	\$16.40	\$0.00	\$86.21
	05/01/2026	\$56.25	\$15.00	\$16.40	\$0.00	\$87.65
	11/01/2026	\$57.54	\$15.00	\$16.40	\$0.00	\$88.94
	05/01/2027	\$58.97	\$15.00	\$16.40	\$0.00	\$90.37
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FIELD ENG.PARTY CHIEF-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	11/01/2024	\$53.67	\$15.00	\$16.40	\$0.00	\$85.07
	05/01/2025	\$55.12	\$15.00	\$16.40	\$0.00	\$86.52
	11/01/2025	\$56.42	\$15.00	\$16.40	\$0.00	\$87.82
	05/01/2026	\$57.87	\$15.00	\$16.40	\$0.00	\$89.27
	11/01/2026	\$59.17	\$15.00	\$16.40	\$0.00	\$90.57
	05/01/2027	\$60.62	\$15.00	\$16.40	\$0.00	\$92.02
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FIELD ENG.ROD PERSON-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	11/01/2024	\$25.67	\$15.00	\$16.40	\$0.00	\$57.07
	05/01/2025	\$26.52	\$15.00	\$16.40	\$0.00	\$57.92
	11/01/2025	\$27.28	\$15.00	\$16.40	\$0.00	\$58.68
	05/01/2026	\$28.13	\$15.00	\$16.40	\$0.00	\$59.53
	11/01/2026	\$28.89	\$15.00	\$16.40	\$0.00	\$60.29
	05/01/2027	\$29.74	\$15.00	\$16.40	\$0.00	\$61.14
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FIRE ALARM INSTALLER <i>ELECTRICIANS LOCAL 103</i>	09/01/2024	\$63.78	\$13.00	\$22.26	\$0.00	\$99.04
	03/01/2025	\$64.98	\$13.00	\$22.30	\$0.00	\$100.28
	09/01/2025	\$66.89	\$13.00	\$22.36	\$0.00	\$102.25
	03/01/2026	\$68.09	\$13.00	\$22.39	\$0.00	\$103.48
	09/01/2026	\$70.00	\$13.00	\$22.45	\$0.00	\$105.45
	03/01/2027	\$71.19	\$13.00	\$22.49	\$0.00	\$106.68
	09/01/2027	\$73.11	\$13.00	\$22.54	\$0.00	\$108.65
	03/01/2028	\$74.31	\$13.00	\$22.58	\$0.00	\$109.89
For apprentice rates see "Apprentice- ELECTRICIAN"						
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING <i>ELECTRICIANS</i> <i>LOCAL 103</i>	09/01/2024	\$51.02	\$13.00	\$20.24	\$0.00	\$84.26
	03/01/2025	\$51.98	\$13.00	\$20.27	\$0.00	\$85.25
	09/01/2025	\$53.51	\$13.00	\$20.32	\$0.00	\$86.83
	03/01/2026	\$54.47	\$13.00	\$20.34	\$0.00	\$87.81
	09/01/2026	\$56.00	\$13.00	\$20.39	\$0.00	\$89.39
	03/01/2027	\$56.95	\$13.00	\$20.42	\$0.00	\$90.37
	09/01/2027	\$58.49	\$13.00	\$20.46	\$0.00	\$91.95
	03/01/2028	\$59.45	\$13.00	\$20.49	\$0.00	\$92.94
For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"						
FIREMAN (ASST. ENGINEER) <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2024	\$45.23	\$15.30	\$16.40	\$0.00	\$76.93
	12/01/2024	\$46.41	\$15.30	\$16.40	\$0.00	\$78.11
	06/01/2025	\$47.47	\$15.30	\$16.40	\$0.00	\$79.17
	12/01/2025	\$48.64	\$15.30	\$16.40	\$0.00	\$80.34
	06/01/2026	\$49.70	\$15.30	\$16.40	\$0.00	\$81.40
	12/01/2026	\$50.88	\$15.30	\$16.40	\$0.00	\$82.58
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FLAGGER & SIGNALER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	06/01/2024	\$27.01	\$9.65	\$17.80	\$0.00	\$54.46
	12/01/2024	\$27.01	\$9.65	\$17.80	\$0.00	\$54.46
	06/01/2025	\$28.09	\$9.65	\$17.80	\$0.00	\$55.54
	12/01/2025	\$28.09	\$9.65	\$17.80	\$0.00	\$55.54
	06/01/2026	\$29.21	\$9.65	\$17.80	\$0.00	\$56.66
	12/01/2026	\$29.21	\$9.65	\$17.80	\$0.00	\$56.66
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
FLOORCOVERER <i>FLOORCOVERERS LOCAL 2168 ZONE 1</i>	09/01/2024	\$56.23	\$8.83	\$20.27	\$0.00	\$85.33
	03/01/2025	\$57.73	\$8.83	\$20.27	\$0.00	\$86.83
	09/01/2025	\$59.23	\$8.83	\$20.27	\$0.00	\$88.33
	03/01/2026	\$60.73	\$8.83	\$20.27	\$0.00	\$89.83
	09/01/2026	\$62.23	\$8.83	\$20.27	\$0.00	\$91.33
	03/01/2027	\$63.73	\$8.83	\$20.27	\$0.00	\$92.83

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - FLOORCOVERER - Local 2168 Zone I

Effective Date - 09/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$25.30	\$8.83	\$1.76	\$0.00	\$35.89
2	45	\$25.30	\$8.83	\$1.76	\$0.00	\$35.89
3	55	\$30.93	\$8.83	\$3.52	\$0.00	\$43.28
4	55	\$30.93	\$8.83	\$3.52	\$0.00	\$43.28
5	70	\$39.36	\$8.83	\$16.75	\$0.00	\$64.94
6	70	\$39.36	\$8.83	\$16.75	\$0.00	\$64.94
7	80	\$44.98	\$8.83	\$18.51	\$0.00	\$72.32
8	80	\$44.98	\$8.83	\$18.51	\$0.00	\$72.32

Effective Date - 03/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$25.98	\$8.83	\$1.76	\$0.00	\$36.57
2	45	\$25.98	\$8.83	\$1.76	\$0.00	\$36.57
3	55	\$31.75	\$8.83	\$3.52	\$0.00	\$44.10
4	55	\$31.75	\$8.83	\$3.52	\$0.00	\$44.10
5	70	\$40.41	\$8.83	\$16.75	\$0.00	\$65.99
6	70	\$40.41	\$8.83	\$16.75	\$0.00	\$65.99
7	80	\$46.18	\$8.83	\$18.51	\$0.00	\$73.52
8	80	\$46.18	\$8.83	\$18.51	\$0.00	\$73.52

Notes: Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

FORK LIFT/CHERRY PICKER OPERATING ENGINEERS LOCAL 4	06/01/2024	\$56.03	\$15.30	\$16.40	\$0.00	\$87.73
	12/01/2024	\$57.48	\$15.30	\$16.40	\$0.00	\$89.18
	06/01/2025	\$58.78	\$15.30	\$16.40	\$0.00	\$90.48
	12/01/2025	\$60.23	\$15.30	\$16.40	\$0.00	\$91.93
	06/01/2026	\$61.53	\$15.30	\$16.40	\$0.00	\$93.23
	12/01/2026	\$62.98	\$15.30	\$16.40	\$0.00	\$94.68

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

GENERATOR/LIGHTING PLANT/HEATERS OPERATING ENGINEERS LOCAL 4	06/01/2024	\$36.17	\$15.30	\$16.40	\$0.00	\$67.87
	12/01/2024	\$37.12	\$15.30	\$16.40	\$0.00	\$68.82
	06/01/2025	\$37.97	\$15.30	\$16.40	\$0.00	\$69.67
	12/01/2025	\$38.92	\$15.30	\$16.40	\$0.00	\$70.62
	06/01/2026	\$39.78	\$15.30	\$16.40	\$0.00	\$71.48
	12/01/2026	\$40.73	\$15.30	\$16.40	\$0.00	\$72.43

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) GLAZIERS LOCAL 35 (ZONE 2)	07/01/2024	\$46.76	\$9.95	\$23.95	\$0.00	\$80.66
	01/01/2025	\$47.96	\$9.95	\$23.95	\$0.00	\$81.86

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - GLAZIER - Local 35 Zone 2

Effective Date - 07/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.38	\$9.95	\$0.00	\$0.00	\$33.33
2	55	\$25.72	\$9.95	\$6.66	\$0.00	\$42.33
3	60	\$28.06	\$9.95	\$7.26	\$0.00	\$45.27
4	65	\$30.39	\$9.95	\$7.87	\$0.00	\$48.21
5	70	\$32.73	\$9.95	\$20.32	\$0.00	\$63.00
6	75	\$35.07	\$9.95	\$20.93	\$0.00	\$65.95
7	80	\$37.41	\$9.95	\$21.53	\$0.00	\$68.89
8	90	\$42.08	\$9.95	\$22.74	\$0.00	\$74.77

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.98	\$9.95	\$0.00	\$0.00	\$33.93
2	55	\$26.38	\$9.95	\$6.66	\$0.00	\$42.99
3	60	\$28.78	\$9.95	\$7.26	\$0.00	\$45.99
4	65	\$31.17	\$9.95	\$7.87	\$0.00	\$48.99
5	70	\$33.57	\$9.95	\$20.32	\$0.00	\$63.84
6	75	\$35.97	\$9.95	\$20.93	\$0.00	\$66.85
7	80	\$38.37	\$9.95	\$21.53	\$0.00	\$69.85
8	90	\$43.16	\$9.95	\$22.74	\$0.00	\$75.85

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

HOISTING ENGINEER/CRANES/GRADALLS	06/01/2024	\$56.03	\$15.30	\$16.40	\$0.00	\$87.73
OPERATING ENGINEERS LOCAL 4	12/01/2024	\$57.48	\$15.30	\$16.40	\$0.00	\$89.18
	06/01/2025	\$58.78	\$15.30	\$16.40	\$0.00	\$90.48
	12/01/2025	\$60.23	\$15.30	\$16.40	\$0.00	\$91.93
	06/01/2026	\$61.53	\$15.30	\$16.40	\$0.00	\$93.23
	12/01/2026	\$62.98	\$15.30	\$16.40	\$0.00	\$94.68

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - OPERATING ENGINEERS - Local 4

Effective Date - 06/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$30.82	\$15.30	\$0.00	\$0.00	\$46.12
2	60	\$33.62	\$15.30	\$16.40	\$0.00	\$65.32
3	65	\$36.42	\$15.30	\$16.40	\$0.00	\$68.12
4	70	\$39.22	\$15.30	\$16.40	\$0.00	\$70.92
5	75	\$42.02	\$15.30	\$16.40	\$0.00	\$73.72
6	80	\$44.82	\$15.30	\$16.40	\$0.00	\$76.52
7	85	\$47.63	\$15.30	\$16.40	\$0.00	\$79.33
8	90	\$50.43	\$15.30	\$16.40	\$0.00	\$82.13

Effective Date - 12/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$31.61	\$0.00	\$0.00	\$0.00	\$31.61
2	60	\$34.49	\$15.30	\$16.40	\$0.00	\$66.19
3	65	\$37.36	\$15.30	\$16.40	\$0.00	\$69.06
4	70	\$40.24	\$15.30	\$16.40	\$0.00	\$71.94
5	75	\$43.11	\$15.30	\$16.40	\$0.00	\$74.81
6	80	\$45.98	\$15.30	\$16.40	\$0.00	\$77.68
7	85	\$48.86	\$15.30	\$16.40	\$0.00	\$80.56
8	90	\$51.73	\$15.30	\$16.40	\$0.00	\$83.43

Notes:

Apprentice to Journeyworker Ratio:1:6

HVAC (DUCTWORK) SHEETMETAL WORKERS LOCAL 17 - A	08/01/2024	\$57.94	\$14.75	\$28.12	\$2.98	\$103.79
	02/01/2025	\$59.69	\$14.75	\$28.12	\$2.98	\$105.54
	08/01/2025	\$61.54	\$14.75	\$28.12	\$2.98	\$107.39
	02/01/2026	\$63.49	\$14.75	\$28.12	\$2.98	\$109.34

For apprentice rates see "Apprentice- SHEET METAL WORKER"

HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 103	09/01/2024	\$63.78	\$13.00	\$22.26	\$0.00	\$99.04
	03/01/2025	\$64.98	\$13.00	\$22.30	\$0.00	\$100.28
	09/01/2025	\$66.89	\$13.00	\$22.36	\$0.00	\$102.25
	03/01/2026	\$68.09	\$13.00	\$22.39	\$0.00	\$103.48
	09/01/2026	\$70.00	\$13.00	\$22.45	\$0.00	\$105.45
	03/01/2027	\$71.19	\$13.00	\$22.49	\$0.00	\$106.68
	09/01/2027	\$73.11	\$13.00	\$22.54	\$0.00	\$108.65
	03/01/2028	\$74.31	\$13.00	\$22.58	\$0.00	\$109.89

For apprentice rates see "Apprentice- ELECTRICIAN"

HVAC (TESTING AND BALANCING - AIR) SHEETMETAL WORKERS LOCAL 17 - A	08/01/2024	\$57.94	\$14.75	\$28.12	\$2.98	\$103.79
	02/01/2025	\$59.69	\$14.75	\$28.12	\$2.98	\$105.54
	08/01/2025	\$61.54	\$14.75	\$28.12	\$2.98	\$107.39
	02/01/2026	\$63.49	\$14.75	\$28.12	\$2.98	\$109.34

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- SHEET METAL WORKER"						
HVAC (TESTING AND BALANCING -WATER) <i>PIPEFITTERS LOCAL 537</i>	09/01/2024	\$67.08	\$12.70	\$21.80	\$0.00	\$101.58
	03/01/2025	\$68.88	\$12.70	\$21.80	\$0.00	\$103.38
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HVAC MECHANIC <i>PIPEFITTERS LOCAL 537</i>	09/01/2024	\$67.08	\$12.70	\$21.80	\$0.00	\$101.58
	03/01/2025	\$68.88	\$12.70	\$21.80	\$0.00	\$103.38
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HYDRAULIC DRILLS <i>LABORERS - ZONE 2</i>	06/01/2024	\$39.28	\$9.65	\$18.40	\$0.00	\$67.33
	12/01/2024	\$40.61	\$9.65	\$18.40	\$0.00	\$68.66
	06/01/2025	\$42.00	\$9.65	\$18.40	\$0.00	\$70.05
	12/01/2025	\$43.38	\$9.65	\$18.40	\$0.00	\$71.43
	06/01/2026	\$44.82	\$9.65	\$18.40	\$0.00	\$72.87
	12/01/2026	\$46.26	\$9.65	\$18.40	\$0.00	\$74.31
	06/01/2027	\$47.71	\$9.65	\$18.40	\$0.00	\$75.76
	12/01/2027	\$49.16	\$9.65	\$18.40	\$0.00	\$77.21
	06/01/2028	\$50.66	\$9.65	\$18.40	\$0.00	\$78.71
	12/01/2028	\$52.16	\$9.65	\$18.40	\$0.00	\$80.21
For apprentice rates see "Apprentice- LABORER"						
HYDRAULIC DRILLS (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	06/01/2024	\$39.28	\$9.65	\$17.80	\$0.00	\$66.73
	12/01/2024	\$40.61	\$9.65	\$17.80	\$0.00	\$68.06
	06/01/2025	\$42.00	\$9.65	\$17.80	\$0.00	\$69.45
	12/01/2025	\$43.38	\$9.65	\$17.80	\$0.00	\$70.83
	06/01/2026	\$44.82	\$9.65	\$17.80	\$0.00	\$72.27
	12/01/2026	\$46.26	\$9.65	\$17.80	\$0.00	\$73.71
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
INSULATOR (PIPES & TANKS) <i>HEAT & FROST INSULATORS LOCAL 6 (BOSTON)</i>	09/01/2024	\$56.92	\$14.75	\$19.61	\$0.00	\$91.28
	09/01/2025	\$60.34	\$14.75	\$19.61	\$0.00	\$94.70
	09/01/2026	\$63.76	\$14.75	\$19.61	\$0.00	\$98.12

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

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

Effective Date - 09/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$28.46	\$14.75	\$14.32	\$0.00	\$57.53
2	60	\$34.15	\$14.75	\$15.37	\$0.00	\$64.27
3	70	\$39.84	\$14.75	\$16.43	\$0.00	\$71.02
4	80	\$45.54	\$14.75	\$17.49	\$0.00	\$77.78

Effective Date - 09/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$30.17	\$14.75	\$14.32	\$0.00	\$59.24
2	60	\$36.20	\$14.75	\$15.37	\$0.00	\$66.32
3	70	\$42.24	\$14.75	\$16.43	\$0.00	\$73.42
4	80	\$48.27	\$14.75	\$17.49	\$0.00	\$80.51

Notes:
Steps are 1 year

Apprentice to Journeyworker Ratio:1:4

IRONWORKER/WELDER <i>IRONWORKERS LOCAL 7 (BOSTON AREA)</i>	03/16/2024	\$53.97	\$8.35	\$26.70	\$0.00	\$89.02
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Apprentice - IRONWORKER - Local 7 Boston

Effective Date - 03/16/2024

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

Notes:

Apprentice to Journeyworker Ratio:1:4

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
JACKHAMMER & PAVING BREAKER OPERATOR LABORERS - ZONE 2	06/01/2024	\$38.78	\$9.65	\$18.40	\$0.00	\$66.83
	12/01/2024	\$40.11	\$9.65	\$18.40	\$0.00	\$68.16
	06/01/2025	\$41.50	\$9.65	\$18.40	\$0.00	\$69.55
	12/01/2025	\$42.88	\$9.65	\$18.40	\$0.00	\$70.93
	06/01/2026	\$44.32	\$9.65	\$18.40	\$0.00	\$72.37
	12/01/2026	\$45.76	\$9.65	\$18.40	\$0.00	\$73.81
	06/01/2027	\$47.21	\$9.65	\$18.40	\$0.00	\$75.26
	12/01/2027	\$48.66	\$9.65	\$18.40	\$0.00	\$76.71
	06/01/2028	\$50.16	\$9.65	\$18.40	\$0.00	\$78.21
	12/01/2028	\$51.66	\$9.65	\$18.40	\$0.00	\$79.71

For apprentice rates see "Apprentice- LABORER"

LABORER LABORERS - ZONE 2	06/01/2024	\$38.53	\$9.65	\$18.40	\$0.00	\$66.58
	12/01/2024	\$39.86	\$9.65	\$18.40	\$0.00	\$67.91
	06/01/2025	\$41.25	\$9.65	\$18.40	\$0.00	\$69.30
	12/01/2025	\$42.63	\$9.65	\$18.40	\$0.00	\$70.68
	06/01/2026	\$44.07	\$9.65	\$18.40	\$0.00	\$72.12
	12/01/2026	\$45.51	\$9.65	\$18.40	\$0.00	\$73.56
	06/01/2027	\$46.96	\$9.65	\$18.40	\$0.00	\$75.01
	12/01/2027	\$48.41	\$9.65	\$18.40	\$0.00	\$76.46
	06/01/2028	\$49.91	\$9.65	\$18.40	\$0.00	\$77.96
	12/01/2028	\$51.41	\$9.65	\$18.40	\$0.00	\$79.46

Apprentice - LABORER - Zone 2

Effective Date - 06/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$23.12	\$9.65	\$18.40	\$0.00	\$51.17
2	70	\$26.97	\$9.65	\$18.40	\$0.00	\$55.02
3	80	\$30.82	\$9.65	\$18.40	\$0.00	\$58.87
4	90	\$34.68	\$9.65	\$18.40	\$0.00	\$62.73

Effective Date - 12/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$23.92	\$9.65	\$18.40	\$0.00	\$51.97
2	70	\$27.90	\$9.65	\$18.40	\$0.00	\$55.95
3	80	\$31.89	\$9.65	\$18.40	\$0.00	\$59.94
4	90	\$35.87	\$9.65	\$18.40	\$0.00	\$63.92

Notes:

Apprentice to Journeyworker Ratio:1:5

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER (HEAVY & HIGHWAY) LABORERS - ZONE 2 (HEAVY & HIGHWAY)	06/01/2024	\$38.53	\$9.65	\$17.80	\$0.00	\$65.98
	12/01/2024	\$39.86	\$9.65	\$17.80	\$0.00	\$67.31
	06/01/2025	\$41.25	\$9.65	\$17.80	\$0.00	\$68.70
	12/01/2025	\$42.63	\$9.65	\$17.80	\$0.00	\$70.08
	06/01/2026	\$44.07	\$9.65	\$17.80	\$0.00	\$71.52
	12/01/2026	\$45.51	\$9.65	\$17.80	\$0.00	\$72.96

Apprentice - LABORER (Heavy & Highway) - Zone 2

Effective Date - 06/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$23.12	\$9.65	\$17.80	\$0.00	\$50.57
2	70	\$26.97	\$9.65	\$17.80	\$0.00	\$54.42
3	80	\$30.82	\$9.65	\$17.80	\$0.00	\$58.27
4	90	\$34.68	\$9.65	\$17.80	\$0.00	\$62.13

Effective Date - 12/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$23.92	\$9.65	\$17.80	\$0.00	\$51.37
2	70	\$27.90	\$9.65	\$17.80	\$0.00	\$55.35
3	80	\$31.89	\$9.65	\$17.80	\$0.00	\$59.34
4	90	\$35.87	\$9.65	\$17.80	\$0.00	\$63.32

Notes:

Apprentice to Journeyworker Ratio:1:5

LABORER: CARPENTER TENDER LABORERS - ZONE 2	06/01/2024	\$38.53	\$9.65	\$18.40	\$0.00	\$66.58
	12/01/2024	\$39.86	\$9.65	\$18.40	\$0.00	\$67.91
	06/01/2025	\$41.25	\$9.65	\$18.40	\$0.00	\$69.30
	12/01/2025	\$42.63	\$9.65	\$18.40	\$0.00	\$70.68
	06/01/2026	\$44.07	\$9.65	\$18.40	\$0.00	\$72.12
	12/01/2026	\$45.51	\$9.65	\$18.40	\$0.00	\$73.56
	06/01/2027	\$46.96	\$9.65	\$18.40	\$0.00	\$75.01
	12/01/2027	\$48.41	\$9.65	\$18.40	\$0.00	\$76.46
	06/01/2028	\$49.91	\$9.65	\$18.40	\$0.00	\$77.96
	12/01/2028	\$51.41	\$9.65	\$18.40	\$0.00	\$79.46

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>	06/01/2024	\$38.53	\$9.65	\$18.40	\$0.00	\$66.58
	12/01/2024	\$39.86	\$9.65	\$18.40	\$0.00	\$67.91
	06/01/2025	\$41.25	\$9.65	\$18.40	\$0.00	\$69.30
	12/01/2025	\$42.63	\$9.65	\$18.40	\$0.00	\$70.68
	06/01/2026	\$44.07	\$9.65	\$18.40	\$0.00	\$72.12
	12/01/2026	\$45.51	\$9.65	\$18.40	\$0.00	\$73.56
	06/01/2027	\$46.96	\$9.65	\$18.40	\$0.00	\$75.01
	12/01/2027	\$48.41	\$9.65	\$18.40	\$0.00	\$76.46
	06/01/2028	\$49.91	\$9.65	\$18.40	\$0.00	\$77.96
	12/01/2028	\$51.41	\$9.65	\$18.40	\$0.00	\$79.46
For apprentice rates see "Apprentice- LABORER"						
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER <i>LABORERS - ZONE 2</i>	06/03/2024	\$38.62	\$9.65	\$17.76	\$0.00	\$66.03
	12/02/2024	\$39.95	\$9.65	\$17.76	\$0.00	\$67.36
	06/02/2025	\$41.34	\$9.65	\$17.76	\$0.00	\$68.75
	12/01/2025	\$42.72	\$9.65	\$17.76	\$0.00	\$70.13
	06/01/2026	\$44.16	\$9.65	\$17.76	\$0.00	\$71.57
	12/07/2026	\$45.60	\$9.65	\$17.76	\$0.00	\$73.01
	06/07/2027	\$47.05	\$9.65	\$17.76	\$0.00	\$74.46
	12/06/2027	\$48.50	\$9.65	\$17.76	\$0.00	\$75.91
	06/05/2028	\$50.00	\$9.65	\$17.76	\$0.00	\$77.41
	12/04/2028	\$51.50	\$9.65	\$17.76	\$0.00	\$78.91
For apprentice rates see "Apprentice- LABORER"						
LABORER: MASON TENDER <i>LABORERS - ZONE 2</i>	06/01/2024	\$38.78	\$9.65	\$18.40	\$0.00	\$66.83
	12/01/2024	\$40.11	\$9.65	\$18.40	\$0.00	\$68.16
	06/01/2025	\$41.50	\$9.65	\$18.40	\$0.00	\$69.55
	12/01/2025	\$42.88	\$9.65	\$18.40	\$0.00	\$70.93
	06/01/2026	\$44.32	\$9.65	\$18.40	\$0.00	\$72.37
	12/01/2026	\$45.76	\$9.65	\$18.40	\$0.00	\$73.81
	06/01/2027	\$47.21	\$9.65	\$18.40	\$0.00	\$75.26
	12/01/2027	\$48.66	\$9.65	\$18.40	\$0.00	\$76.71
	06/01/2028	\$50.16	\$9.65	\$18.40	\$0.00	\$78.21
	12/01/2028	\$51.66	\$9.65	\$18.40	\$0.00	\$79.71
For apprentice rates see "Apprentice- LABORER"						
LABORER: MASON TENDER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	06/01/2024	\$38.78	\$9.65	\$17.80	\$0.00	\$66.23
	12/01/2024	\$40.11	\$9.65	\$17.80	\$0.00	\$67.56
	06/01/2025	\$41.50	\$9.65	\$17.80	\$0.00	\$68.95
	12/01/2025	\$42.88	\$9.65	\$17.80	\$0.00	\$70.33
	06/01/2026	\$44.32	\$9.65	\$17.80	\$0.00	\$71.77
	12/01/2026	\$45.76	\$9.65	\$17.80	\$0.00	\$73.21
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER: MULTI-TRADE TENDER <i>LABORERS - ZONE 2</i>	06/01/2024	\$38.53	\$9.65	\$18.40	\$0.00	\$66.58
	12/01/2024	\$39.86	\$9.65	\$18.40	\$0.00	\$67.91
	06/01/2025	\$41.25	\$9.65	\$18.40	\$0.00	\$69.30
	12/01/2025	\$42.63	\$9.65	\$18.40	\$0.00	\$70.68
	06/01/2026	\$44.07	\$9.65	\$18.40	\$0.00	\$72.12
	12/01/2026	\$45.51	\$9.65	\$18.40	\$0.00	\$73.56
	06/01/2027	\$46.96	\$9.65	\$18.40	\$0.00	\$75.01
	12/01/2027	\$48.41	\$9.65	\$18.40	\$0.00	\$76.46
	06/01/2028	\$49.91	\$9.65	\$18.40	\$0.00	\$77.96
	12/01/2028	\$51.41	\$9.65	\$18.40	\$0.00	\$79.46
For apprentice rates see "Apprentice- LABORER"						
LABORER: TREE REMOVER <i>LABORERS - ZONE 2</i>	06/01/2024	\$38.53	\$9.65	\$18.40	\$0.00	\$66.58
	12/01/2024	\$39.86	\$9.65	\$18.40	\$0.00	\$67.91
	06/01/2025	\$41.25	\$9.65	\$18.40	\$0.00	\$69.30
	12/01/2025	\$42.63	\$9.65	\$18.40	\$0.00	\$70.68
	06/01/2026	\$44.07	\$9.65	\$18.40	\$0.00	\$72.12
	12/01/2026	\$45.51	\$9.65	\$18.40	\$0.00	\$73.56
	06/01/2027	\$46.96	\$9.65	\$18.40	\$0.00	\$75.01
	12/01/2027	\$48.41	\$9.65	\$18.40	\$0.00	\$76.46
	06/01/2028	\$49.91	\$9.65	\$18.40	\$0.00	\$77.96
	12/01/2028	\$51.41	\$9.65	\$18.40	\$0.00	\$79.46
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>	06/01/2024	\$38.78	\$9.65	\$18.40	\$0.00	\$66.83
	12/01/2024	\$40.11	\$9.65	\$18.40	\$0.00	\$68.16
	06/01/2025	\$41.50	\$9.65	\$18.40	\$0.00	\$69.55
	12/01/2025	\$42.88	\$9.65	\$18.40	\$0.00	\$70.93
	06/01/2026	\$44.32	\$9.65	\$18.40	\$0.00	\$72.37
	12/01/2026	\$45.76	\$9.65	\$18.40	\$0.00	\$73.81
	06/01/2027	\$47.21	\$9.65	\$18.40	\$0.00	\$75.26
	12/01/2027	\$48.66	\$9.65	\$18.40	\$0.00	\$76.71
	06/01/2028	\$50.16	\$9.65	\$18.40	\$0.00	\$78.21
	12/01/2028	\$51.66	\$9.65	\$18.40	\$0.00	\$79.71
For apprentice rates see "Apprentice- LABORER"						
LASER BEAM OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	06/01/2024	\$38.78	\$9.65	\$17.80	\$0.00	\$66.23
	12/01/2024	\$40.11	\$9.65	\$17.80	\$0.00	\$67.56
	06/01/2025	\$41.50	\$9.65	\$17.80	\$0.00	\$68.95
	12/01/2025	\$42.88	\$9.65	\$17.80	\$0.00	\$70.33
	06/01/2026	\$44.32	\$9.65	\$17.80	\$0.00	\$71.77
	12/01/2026	\$45.76	\$9.65	\$17.80	\$0.00	\$73.21
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
MARBLE & TILE FINISHERS <i>BRICKLAYERS LOCAL 3 - MARBLE & TILE</i>	08/01/2024	\$49.32	\$11.49	\$21.62	\$0.00	\$82.43
	02/01/2025	\$50.36	\$11.49	\$21.62	\$0.00	\$83.47
	08/01/2025	\$52.08	\$11.49	\$21.62	\$0.00	\$85.19
	02/01/2026	\$53.16	\$11.49	\$21.62	\$0.00	\$86.27
	08/01/2026	\$54.92	\$11.49	\$21.62	\$0.00	\$88.03
	02/01/2027	\$56.04	\$11.49	\$21.62	\$0.00	\$89.15

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

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

Effective Date - 08/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.66	\$11.49	\$21.62	\$0.00	\$57.77
2	60	\$29.59	\$11.49	\$21.62	\$0.00	\$62.70
3	70	\$34.52	\$11.49	\$21.62	\$0.00	\$67.63
4	80	\$39.46	\$11.49	\$21.62	\$0.00	\$72.57
5	90	\$44.39	\$11.49	\$21.62	\$0.00	\$77.50

Effective Date - 02/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.18	\$11.49	\$21.62	\$0.00	\$58.29
2	60	\$30.22	\$11.49	\$21.62	\$0.00	\$63.33
3	70	\$35.25	\$11.49	\$21.62	\$0.00	\$68.36
4	80	\$40.29	\$11.49	\$21.62	\$0.00	\$73.40
5	90	\$45.32	\$11.49	\$21.62	\$0.00	\$78.43

Notes:

Apprentice to Journeyworker Ratio:1:3

MARBLE MASONS, TILELAYERS & TERRAZZO MECH	08/01/2024	\$64.52	\$11.49	\$23.56	\$0.00	\$99.57
BRICKLAYERS LOCAL 3 - MARBLE & TILE	02/01/2025	\$65.82	\$11.49	\$23.56	\$0.00	\$100.87
	08/01/2025	\$67.97	\$11.49	\$23.56	\$0.00	\$103.02
	02/01/2026	\$69.32	\$11.49	\$23.56	\$0.00	\$104.37
	08/01/2026	\$71.52	\$11.49	\$23.56	\$0.00	\$106.57
	02/01/2027	\$72.92	\$11.49	\$23.56	\$0.00	\$107.97

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

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

Effective Date - 08/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$32.26	\$11.49	\$23.56	\$0.00	\$67.31
2	60	\$38.71	\$11.49	\$23.56	\$0.00	\$73.76
3	70	\$45.16	\$11.49	\$23.56	\$0.00	\$80.21
4	80	\$51.62	\$11.49	\$23.56	\$0.00	\$86.67
5	90	\$58.07	\$11.49	\$23.56	\$0.00	\$93.12

Effective Date - 02/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$32.91	\$11.49	\$23.56	\$0.00	\$67.96
2	60	\$39.49	\$11.49	\$23.56	\$0.00	\$74.54
3	70	\$46.07	\$11.49	\$23.56	\$0.00	\$81.12
4	80	\$52.66	\$11.49	\$23.56	\$0.00	\$87.71
5	90	\$59.24	\$11.49	\$23.56	\$0.00	\$94.29

Notes:

Apprentice to Journeyworker Ratio:1:5

MECH. SWEEPER OPERATOR (ON CONST. SITES) <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2024	\$55.41	\$15.30	\$16.40	\$0.00	\$87.11
	12/01/2024	\$56.85	\$15.30	\$16.40	\$0.00	\$88.55
	06/01/2025	\$58.13	\$15.30	\$16.40	\$0.00	\$89.83
	12/01/2025	\$59.57	\$15.30	\$16.40	\$0.00	\$91.27
	06/01/2026	\$60.85	\$15.30	\$16.40	\$0.00	\$92.55
	12/01/2026	\$62.29	\$15.30	\$16.40	\$0.00	\$93.99
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
MECHANICS MAINTENANCE <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2024	\$55.41	\$15.30	\$16.40	\$0.00	\$87.11
	12/01/2024	\$56.85	\$15.30	\$16.40	\$0.00	\$88.55
	06/01/2025	\$58.13	\$15.30	\$16.40	\$0.00	\$89.83
	12/01/2025	\$59.57	\$15.30	\$16.40	\$0.00	\$91.27
	06/01/2026	\$60.85	\$15.30	\$16.40	\$0.00	\$92.55
	12/01/2026	\$62.29	\$15.30	\$16.40	\$0.00	\$93.99
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
MILLWRIGHT (Zone 1) <i>MILLWRIGHTS LOCAL 1121 - Zone 1</i>	01/01/2024	\$48.03	\$10.08	\$21.72	\$0.00	\$79.83
	01/06/2025	\$50.53	\$10.08	\$21.72	\$0.00	\$82.33
	01/05/2026	\$53.03	\$10.08	\$21.72	\$0.00	\$84.83

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - MILLWRIGHT - Local 1121 Zone 1

Effective Date - 01/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$26.42	\$10.08	\$5.64	\$0.00	\$42.14
2	65	\$31.22	\$10.08	\$6.66	\$0.00	\$47.96
3	75	\$36.02	\$10.08	\$19.16	\$0.00	\$65.26
4	85	\$40.83	\$10.08	\$20.18	\$0.00	\$71.09

Effective Date - 01/06/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$27.79	\$10.08	\$5.64	\$0.00	\$43.51
2	65	\$32.84	\$10.08	\$6.66	\$0.00	\$49.58
3	75	\$37.90	\$10.08	\$19.16	\$0.00	\$67.14
4	85	\$42.95	\$10.08	\$20.18	\$0.00	\$73.21

Notes: Step 1&2 Appr. indentured after 1/6/2020 receive no pension, but do receive annuity. (Step 1 \$5.72, Step 2 \$6.66)
Steps are 2,000 hours

Apprentice to Journeyworker Ratio:1:4

MORTAR MIXER LABORERS - ZONE 2	06/01/2024	\$38.78	\$9.65	\$18.40	\$0.00	\$66.83
	12/01/2024	\$40.11	\$9.65	\$18.40	\$0.00	\$68.16
	06/01/2025	\$41.50	\$9.65	\$18.40	\$0.00	\$69.55
	12/01/2025	\$42.88	\$9.65	\$18.40	\$0.00	\$70.93
	06/01/2026	\$44.32	\$9.65	\$18.40	\$0.00	\$72.37
	12/01/2026	\$45.76	\$9.65	\$18.40	\$0.00	\$73.81
	06/01/2027	\$47.21	\$9.65	\$18.40	\$0.00	\$75.26
	12/01/2027	\$48.66	\$9.65	\$18.40	\$0.00	\$76.71
	06/01/2028	\$50.16	\$9.65	\$18.40	\$0.00	\$78.21
	12/01/2028	\$51.66	\$9.65	\$18.40	\$0.00	\$79.71

For apprentice rates see "Apprentice- LABORER"

OILER (OTHER THAN TRUCK CRANES,GRADALLS) OPERATING ENGINEERS LOCAL 4	06/01/2024	\$24.71	\$15.30	\$16.40	\$0.00	\$56.41
	12/01/2024	\$25.37	\$15.30	\$16.40	\$0.00	\$57.07
	06/01/2025	\$25.97	\$15.30	\$16.40	\$0.00	\$57.67
	12/01/2025	\$26.63	\$15.30	\$16.40	\$0.00	\$58.33
	06/01/2026	\$27.22	\$15.30	\$16.40	\$0.00	\$58.92
	12/01/2026	\$27.89	\$15.30	\$16.40	\$0.00	\$59.59

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

OILER (TRUCK CRANES, GRADALLS) OPERATING ENGINEERS LOCAL 4	06/01/2024	\$30.28	\$15.30	\$16.40	\$0.00	\$61.98
	12/01/2024	\$31.08	\$15.30	\$16.40	\$0.00	\$62.78
	06/01/2025	\$31.80	\$15.30	\$16.40	\$0.00	\$63.50
	12/01/2025	\$32.60	\$15.30	\$16.40	\$0.00	\$64.30
	06/01/2026	\$33.32	\$15.30	\$16.40	\$0.00	\$65.02
	12/01/2026	\$34.12	\$15.30	\$16.40	\$0.00	\$65.82

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
OTHER POWER DRIVEN EQUIPMENT - CLASS II <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2024	\$55.41	\$15.30	\$16.40	\$0.00	\$87.11
	12/01/2024	\$56.85	\$15.30	\$16.40	\$0.00	\$88.55
	06/01/2025	\$58.13	\$15.30	\$16.40	\$0.00	\$89.83
	12/01/2025	\$59.57	\$15.30	\$16.40	\$0.00	\$91.27
	06/01/2026	\$60.85	\$15.30	\$16.40	\$0.00	\$92.55
	12/01/2026	\$62.29	\$15.30	\$16.40	\$0.00	\$93.99
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PAINTER (BRIDGES/TANKS) <i>PAINTERS LOCAL 35 - ZONE 2</i>	07/01/2024	\$57.26	\$9.95	\$23.95	\$0.00	\$91.16
	01/01/2025	\$58.46	\$9.95	\$23.95	\$0.00	\$92.36

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 07/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$28.63	\$9.95	\$0.00	\$0.00	\$38.58
2	55	\$31.49	\$9.95	\$6.66	\$0.00	\$48.10
3	60	\$34.36	\$9.95	\$7.26	\$0.00	\$51.57
4	65	\$37.22	\$9.95	\$7.87	\$0.00	\$55.04
5	70	\$40.08	\$9.95	\$20.32	\$0.00	\$70.35
6	75	\$42.95	\$9.95	\$20.93	\$0.00	\$73.83
7	80	\$45.81	\$9.95	\$21.53	\$0.00	\$77.29
8	90	\$51.53	\$9.95	\$22.74	\$0.00	\$84.22

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$29.23	\$9.95	\$0.00	\$0.00	\$39.18
2	55	\$32.15	\$9.95	\$6.66	\$0.00	\$48.76
3	60	\$35.08	\$9.95	\$7.26	\$0.00	\$52.29
4	65	\$38.00	\$9.95	\$7.87	\$0.00	\$55.82
5	70	\$40.92	\$9.95	\$20.32	\$0.00	\$71.19
6	75	\$43.85	\$9.95	\$20.93	\$0.00	\$74.73
7	80	\$46.77	\$9.95	\$21.53	\$0.00	\$78.25
8	90	\$52.61	\$9.95	\$22.74	\$0.00	\$85.30

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SPRAY OR SANDBLAST, NEW) *	07/01/2024	\$48.16	\$9.95	\$23.95	\$0.00	\$82.06
* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. <i>PAINTERS LOCAL 35 - ZONE 2</i>	01/01/2025	\$49.36	\$9.95	\$23.95	\$0.00	\$83.26

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

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

Effective Date - 07/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.08	\$9.95	\$0.00	\$0.00	\$34.03
2	55	\$26.49	\$9.95	\$6.66	\$0.00	\$43.10
3	60	\$28.90	\$9.95	\$7.26	\$0.00	\$46.11
4	65	\$31.30	\$9.95	\$7.87	\$0.00	\$49.12
5	70	\$33.71	\$9.95	\$20.32	\$0.00	\$63.98
6	75	\$36.12	\$9.95	\$20.93	\$0.00	\$67.00
7	80	\$38.53	\$9.95	\$21.53	\$0.00	\$70.01
8	90	\$43.34	\$9.95	\$22.74	\$0.00	\$76.03

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.68	\$9.95	\$0.00	\$0.00	\$34.63
2	55	\$27.15	\$9.95	\$6.66	\$0.00	\$43.76
3	60	\$29.62	\$9.95	\$7.26	\$0.00	\$46.83
4	65	\$32.08	\$9.95	\$7.87	\$0.00	\$49.90
5	70	\$34.55	\$9.95	\$20.32	\$0.00	\$64.82
6	75	\$37.02	\$9.95	\$20.93	\$0.00	\$67.90
7	80	\$39.49	\$9.95	\$21.53	\$0.00	\$70.97
8	90	\$44.42	\$9.95	\$22.74	\$0.00	\$77.11

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SPRAY OR SANDBLAST, REPAINT)	07/01/2024	\$46.22	\$9.95	\$23.95	\$0.00	\$80.12
PAINTERS LOCAL 35 - ZONE 2	01/01/2025	\$47.42	\$9.95	\$23.95	\$0.00	\$81.32

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

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

Effective Date - 07/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.11	\$9.95	\$0.00	\$0.00	\$33.06
2	55	\$25.42	\$9.95	\$6.66	\$0.00	\$42.03
3	60	\$27.73	\$9.95	\$7.26	\$0.00	\$44.94
4	65	\$30.04	\$9.95	\$7.87	\$0.00	\$47.86
5	70	\$32.35	\$9.95	\$20.32	\$0.00	\$62.62
6	75	\$34.67	\$9.95	\$20.93	\$0.00	\$65.55
7	80	\$36.98	\$9.95	\$21.53	\$0.00	\$68.46
8	90	\$41.60	\$9.95	\$22.74	\$0.00	\$74.29

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.71	\$9.95	\$0.00	\$0.00	\$33.66
2	55	\$26.08	\$9.95	\$6.66	\$0.00	\$42.69
3	60	\$28.45	\$9.95	\$7.26	\$0.00	\$45.66
4	65	\$30.82	\$9.95	\$7.87	\$0.00	\$48.64
5	70	\$33.19	\$9.95	\$20.32	\$0.00	\$63.46
6	75	\$35.57	\$9.95	\$20.93	\$0.00	\$66.45
7	80	\$37.94	\$9.95	\$21.53	\$0.00	\$69.42
8	90	\$42.68	\$9.95	\$22.74	\$0.00	\$75.37

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER / TAPER (BRUSH, NEW) *	07/01/2024	\$46.76	\$9.95	\$23.95	\$0.00	\$80.66
* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 - ZONE 2	01/01/2025	\$47.96	\$9.95	\$23.95	\$0.00	\$81.86

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER - Local 35 Zone 2 - BRUSH NEW

Effective Date - 07/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.38	\$9.95	\$0.00	\$0.00	\$33.33
2	55	\$25.72	\$9.95	\$6.66	\$0.00	\$42.33
3	60	\$28.06	\$9.95	\$7.26	\$0.00	\$45.27
4	65	\$30.39	\$9.95	\$7.87	\$0.00	\$48.21
5	70	\$32.73	\$9.95	\$20.32	\$0.00	\$63.00
6	75	\$35.07	\$9.95	\$20.93	\$0.00	\$65.95
7	80	\$37.41	\$9.95	\$21.53	\$0.00	\$68.89
8	90	\$42.08	\$9.95	\$22.74	\$0.00	\$74.77

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.98	\$9.95	\$0.00	\$0.00	\$33.93
2	55	\$26.38	\$9.95	\$6.66	\$0.00	\$42.99
3	60	\$28.78	\$9.95	\$7.26	\$0.00	\$45.99
4	65	\$31.17	\$9.95	\$7.87	\$0.00	\$48.99
5	70	\$33.57	\$9.95	\$20.32	\$0.00	\$63.84
6	75	\$35.97	\$9.95	\$20.93	\$0.00	\$66.85
7	80	\$38.37	\$9.95	\$21.53	\$0.00	\$69.85
8	90	\$43.16	\$9.95	\$22.74	\$0.00	\$75.85

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER / TAPER (BRUSH, REPAINT)	07/01/2024	\$44.82	\$9.95	\$23.95	\$0.00	\$78.72
PAINTERS LOCAL 35 - ZONE 2	01/01/2025	\$46.02	\$9.95	\$23.95	\$0.00	\$79.92

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 Zone 2 - BRUSH REPAINT

Effective Date - 07/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.41	\$9.95	\$0.00	\$0.00	\$32.36
2	55	\$24.65	\$9.95	\$6.66	\$0.00	\$41.26
3	60	\$26.89	\$9.95	\$7.26	\$0.00	\$44.10
4	65	\$29.13	\$9.95	\$7.87	\$0.00	\$46.95
5	70	\$31.37	\$9.95	\$20.32	\$0.00	\$61.64
6	75	\$33.62	\$9.95	\$20.93	\$0.00	\$64.50
7	80	\$35.86	\$9.95	\$21.53	\$0.00	\$67.34
8	90	\$40.34	\$9.95	\$22.74	\$0.00	\$73.03

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.01	\$9.95	\$0.00	\$0.00	\$32.96
2	55	\$25.31	\$9.95	\$6.66	\$0.00	\$41.92
3	60	\$27.61	\$9.95	\$7.26	\$0.00	\$44.82
4	65	\$29.91	\$9.95	\$7.87	\$0.00	\$47.73
5	70	\$32.21	\$9.95	\$20.32	\$0.00	\$62.48
6	75	\$34.52	\$9.95	\$20.93	\$0.00	\$65.40
7	80	\$36.82	\$9.95	\$21.53	\$0.00	\$68.30
8	90	\$41.42	\$9.95	\$22.74	\$0.00	\$74.11

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY)	06/01/2024	\$38.53	\$9.65	\$17.80	\$0.00	\$65.98
LABORERS - ZONE 2 (HEAVY & HIGHWAY)	12/01/2024	\$39.86	\$9.65	\$17.80	\$0.00	\$67.31
	06/01/2025	\$41.25	\$9.65	\$17.80	\$0.00	\$68.70
	12/01/2025	\$42.63	\$9.65	\$17.80	\$0.00	\$70.08
	06/01/2026	\$44.07	\$9.65	\$17.80	\$0.00	\$71.52
	12/01/2026	\$45.51	\$9.65	\$17.80	\$0.00	\$72.96

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

PANEL & PICKUP TRUCKS DRIVER	08/01/2024	\$40.88	\$14.91	\$18.67	\$0.00	\$74.46
TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	12/01/2024	\$40.88	\$14.91	\$20.17	\$0.00	\$75.96
	06/01/2025	\$41.88	\$14.91	\$20.17	\$0.00	\$76.96
	08/01/2025	\$41.88	\$15.41	\$20.17	\$0.00	\$77.46
	12/01/2025	\$41.88	\$15.41	\$21.78	\$0.00	\$79.07
	06/01/2026	\$42.88	\$15.41	\$21.78	\$0.00	\$80.07
	08/01/2026	\$42.88	\$15.91	\$21.78	\$0.00	\$80.57
	12/01/2026	\$42.88	\$15.91	\$23.52	\$0.00	\$82.31

PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK)	08/01/2020	\$49.07	\$9.40	\$23.12	\$0.00	\$81.59
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PILE DRIVER LOCAL 56 (ZONE 1)

For apprentice rates see "Apprentice- PILE DRIVER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PILE DRIVER PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2020	\$49.07	\$9.40	\$23.12	\$0.00	\$81.59

Apprentice - PILE DRIVER - Local 56 Zone 1

Effective Date - 08/01/2020

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

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

Apprentice to Journeyworker Ratio:1:5

PIPEFITTER & STEAMFITTER PIPEFITTERS LOCAL 537	09/01/2024	\$67.08	\$12.70	\$21.80	\$0.00	\$101.58
	03/01/2025	\$68.88	\$12.70	\$21.80	\$0.00	\$103.38

Apprentice - PIPEFITTER - Local 537

Effective Date - 09/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$26.83	\$12.70	\$9.05	\$0.00	\$48.58
2	45	\$30.19	\$12.70	\$21.80	\$0.00	\$64.69
3	60	\$40.25	\$12.70	\$21.80	\$0.00	\$74.75
4	70	\$46.96	\$12.70	\$21.80	\$0.00	\$81.46
5	80	\$53.66	\$12.70	\$21.80	\$0.00	\$88.16

Effective Date - 03/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$27.55	\$12.70	\$9.05	\$0.00	\$49.30
2	45	\$31.00	\$12.70	\$21.80	\$0.00	\$65.50
3	60	\$41.33	\$12.70	\$21.80	\$0.00	\$75.83
4	70	\$48.22	\$12.70	\$21.80	\$0.00	\$82.72
5	80	\$55.10	\$12.70	\$21.80	\$0.00	\$89.60

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

Apprentice to Journeyworker Ratio:**

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PIPELAYER LABORERS - ZONE 2	06/01/2024	\$38.78	\$9.65	\$18.40	\$0.00	\$66.83
	12/01/2024	\$40.11	\$9.65	\$18.40	\$0.00	\$68.16
	06/01/2025	\$41.50	\$9.65	\$18.40	\$0.00	\$69.55
	12/01/2025	\$42.88	\$9.65	\$18.40	\$0.00	\$70.93
	06/01/2026	\$44.32	\$9.65	\$18.40	\$0.00	\$72.37
	12/01/2026	\$45.76	\$9.65	\$18.40	\$0.00	\$73.81
	06/01/2027	\$47.21	\$9.65	\$18.40	\$0.00	\$75.26
	12/01/2027	\$48.66	\$9.65	\$18.40	\$0.00	\$76.71
	06/01/2028	\$50.16	\$9.65	\$18.40	\$0.00	\$78.21
	12/01/2028	\$51.66	\$9.65	\$18.40	\$0.00	\$79.71

For apprentice rates see "Apprentice- LABORER"

PIPELAYER (HEAVY & HIGHWAY) LABORERS - ZONE 2 (HEAVY & HIGHWAY)	06/01/2024	\$38.78	\$9.65	\$17.80	\$0.00	\$66.23
	12/01/2024	\$40.11	\$9.65	\$17.80	\$0.00	\$67.56
	06/01/2025	\$41.50	\$9.65	\$17.80	\$0.00	\$68.95
	12/01/2025	\$42.88	\$9.65	\$17.80	\$0.00	\$70.33
	06/01/2026	\$44.32	\$9.65	\$17.80	\$0.00	\$71.77
	12/01/2026	\$45.76	\$9.65	\$17.80	\$0.00	\$73.21

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

PLUMBERS & GASFITTERS PLUMBERS & GASFITTERS LOCAL 12	09/01/2024	\$69.04	\$14.32	\$19.61	\$0.00	\$102.97
	03/02/2025	\$70.84	\$14.32	\$19.61	\$0.00	\$104.77

Apprentice - PLUMBER/GASFITTER - Local 12

Effective Date - 09/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$24.16	\$14.32	\$7.06	\$0.00	\$45.54
2	40	\$27.62	\$14.32	\$8.02	\$0.00	\$49.96
3	55	\$37.97	\$14.32	\$10.93	\$0.00	\$63.22
4	65	\$44.88	\$14.32	\$12.86	\$0.00	\$72.06
5	75	\$51.78	\$14.32	\$14.79	\$0.00	\$80.89

Effective Date - 03/02/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$24.79	\$14.32	\$7.06	\$0.00	\$46.17
2	40	\$28.34	\$14.32	\$8.02	\$0.00	\$50.68
3	55	\$38.96	\$14.32	\$10.93	\$0.00	\$64.21
4	65	\$46.05	\$14.32	\$12.86	\$0.00	\$73.23
5	75	\$53.13	\$14.32	\$14.79	\$0.00	\$82.24

Notes:

** 1:2; 2:6; 3:10; 4:14; 5:19/Steps are 1 yr
Step4 with lic\$76.49 tot.rate, Step5 with lic. \$85.32 tot. rate

Apprentice to Journeyworker Ratio:**

PNEUMATIC CONTROLS (TEMP.) PIPEFITTERS LOCAL 537	09/01/2024	\$67.08	\$12.70	\$21.80	\$0.00	\$101.58
	03/01/2025	\$68.88	\$12.70	\$21.80	\$0.00	\$103.38

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

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PNEUMATIC DRILL/TOOL OPERATOR <i>LABORERS - ZONE 2</i>	06/01/2024	\$39.28	\$9.65	\$18.40	\$0.00	\$67.33
	12/01/2024	\$40.61	\$9.65	\$18.40	\$0.00	\$68.66
	06/01/2025	\$42.00	\$9.65	\$18.40	\$0.00	\$70.05
	12/01/2025	\$43.38	\$9.65	\$18.40	\$0.00	\$71.43
	06/01/2026	\$44.82	\$9.65	\$18.40	\$0.00	\$72.87
	12/01/2026	\$46.26	\$9.65	\$18.40	\$0.00	\$74.31
	06/01/2027	\$47.71	\$9.65	\$18.40	\$0.00	\$75.76
	12/01/2027	\$49.16	\$9.65	\$18.40	\$0.00	\$77.21
	06/01/2028	\$50.66	\$9.65	\$18.40	\$0.00	\$78.71
	12/01/2028	\$52.16	\$9.65	\$18.40	\$0.00	\$80.21
For apprentice rates see "Apprentice- LABORER"						
PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	06/01/2024	\$38.78	\$9.65	\$17.80	\$0.00	\$66.23
	12/01/2024	\$40.11	\$9.65	\$17.80	\$0.00	\$67.56
	06/01/2025	\$41.50	\$9.65	\$17.80	\$0.00	\$68.95
	12/01/2025	\$42.88	\$9.65	\$17.80	\$0.00	\$70.33
	06/01/2026	\$44.32	\$9.65	\$17.80	\$0.00	\$71.77
	12/01/2026	\$45.76	\$9.65	\$17.80	\$0.00	\$73.21
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
POWDERMAN & BLASTER <i>LABORERS - ZONE 2</i>	06/01/2024	\$39.53	\$9.65	\$18.40	\$0.00	\$67.58
	12/01/2024	\$40.86	\$9.65	\$18.40	\$0.00	\$68.91
	06/01/2025	\$42.25	\$9.65	\$18.40	\$0.00	\$70.30
	12/01/2025	\$43.63	\$9.65	\$18.40	\$0.00	\$71.68
	06/01/2026	\$45.07	\$9.65	\$18.40	\$0.00	\$73.12
	12/01/2026	\$46.51	\$9.65	\$18.40	\$0.00	\$74.56
	06/01/2027	\$47.96	\$9.65	\$18.40	\$0.00	\$76.01
	12/01/2027	\$49.41	\$9.65	\$18.40	\$0.00	\$77.46
	06/01/2028	\$50.91	\$9.65	\$18.40	\$0.00	\$78.96
12/01/2028	\$52.41	\$9.65	\$18.40	\$0.00	\$80.46	
For apprentice rates see "Apprentice- LABORER"						
POWDERMAN & BLASTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	06/01/2024	\$39.53	\$9.40	\$17.55	\$0.00	\$66.48
	12/01/2024	\$40.86	\$9.40	\$17.55	\$0.00	\$67.81
	06/01/2025	\$42.25	\$9.40	\$17.55	\$0.00	\$69.20
	12/01/2025	\$43.63	\$9.40	\$17.55	\$0.00	\$70.58
	06/01/2026	\$45.07	\$9.40	\$17.55	\$0.00	\$72.02
	12/01/2026	\$46.51	\$9.40	\$17.55	\$0.00	\$73.46
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
POWER SHOVEL/DERRICK/TRENCHING MACHINE <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2024	\$56.03	\$15.30	\$16.40	\$0.00	\$87.73
	12/01/2024	\$57.48	\$15.30	\$16.40	\$0.00	\$89.18
	06/01/2025	\$58.78	\$15.30	\$16.40	\$0.00	\$90.48
	12/01/2025	\$60.23	\$15.30	\$16.40	\$0.00	\$91.93
	06/01/2026	\$61.53	\$15.30	\$16.40	\$0.00	\$93.23
	12/01/2026	\$62.98	\$15.30	\$16.40	\$0.00	\$94.68
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PUMP OPERATOR (CONCRETE) <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2024	\$55.41	\$15.30	\$16.40	\$0.00	\$87.11
	12/01/2024	\$56.85	\$15.30	\$16.40	\$0.00	\$88.55
	06/01/2025	\$58.13	\$15.30	\$16.40	\$0.00	\$89.83
	12/01/2025	\$59.57	\$15.30	\$16.40	\$0.00	\$91.27
	06/01/2026	\$60.85	\$15.30	\$16.40	\$0.00	\$92.55
	12/01/2026	\$62.29	\$15.30	\$16.40	\$0.00	\$93.99
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (DEWATERING, OTHER) <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2024	\$36.17	\$15.30	\$16.40	\$0.00	\$67.87
	12/01/2024	\$37.12	\$15.30	\$16.40	\$0.00	\$68.82
	06/01/2025	\$37.97	\$15.30	\$16.40	\$0.00	\$69.67
	12/01/2025	\$38.92	\$15.30	\$16.40	\$0.00	\$70.62
	06/01/2026	\$39.78	\$15.30	\$16.40	\$0.00	\$71.48
	12/01/2026	\$40.73	\$15.30	\$16.40	\$0.00	\$72.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
READY-MIX CONCRETE DRIVER <i>TEAMSTERS 170 - Dauphinis (Bellingham)</i>	01/01/2024	\$27.00	\$10.76	\$5.45	\$0.00	\$43.21
	12/01/2024	\$27.60	\$11.26	\$6.15	\$0.00	\$45.01
	01/01/2025	\$27.60	\$11.26	\$6.15	\$0.00	\$45.01
RECLAIMERS <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2024	\$55.41	\$15.30	\$16.40	\$0.00	\$87.11
	12/01/2024	\$56.85	\$15.30	\$16.40	\$0.00	\$88.55
	06/01/2025	\$58.13	\$15.30	\$16.40	\$0.00	\$89.83
	12/01/2025	\$59.57	\$15.30	\$16.40	\$0.00	\$91.27
	06/01/2026	\$60.85	\$15.30	\$16.40	\$0.00	\$92.55
	12/01/2026	\$62.29	\$15.30	\$16.40	\$0.00	\$93.99
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
RIDE-ON MOTORIZED BUGGY OPERATOR <i>LABORERS - ZONE 2</i>	06/01/2024	\$38.78	\$9.65	\$18.40	\$0.00	\$66.83
	12/01/2024	\$40.11	\$9.65	\$18.40	\$0.00	\$68.16
	06/01/2025	\$41.50	\$9.65	\$18.40	\$0.00	\$69.55
	12/01/2025	\$42.88	\$9.65	\$18.40	\$0.00	\$70.93
	06/01/2026	\$44.32	\$9.65	\$18.40	\$0.00	\$72.37
	12/01/2026	\$45.76	\$9.65	\$18.40	\$0.00	\$73.81
	06/01/2027	\$47.21	\$9.65	\$18.40	\$0.00	\$75.26
	12/01/2027	\$48.66	\$9.65	\$18.40	\$0.00	\$76.71
	06/01/2028	\$50.16	\$9.65	\$18.40	\$0.00	\$78.21
	12/01/2028	\$51.66	\$9.65	\$18.40	\$0.00	\$79.71
For apprentice rates see "Apprentice- LABORER"						
ROLLER/SPREADER/MULCHING MACHINE <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2024	\$55.41	\$15.30	\$16.40	\$0.00	\$87.11
	12/01/2024	\$56.85	\$15.30	\$16.40	\$0.00	\$88.55
	06/01/2025	\$58.13	\$15.30	\$16.40	\$0.00	\$89.83
	12/01/2025	\$59.57	\$15.30	\$16.40	\$0.00	\$91.27
	06/01/2026	\$60.85	\$15.30	\$16.40	\$0.00	\$92.55
	12/01/2026	\$62.29	\$15.30	\$16.40	\$0.00	\$93.99
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
ROOFER (Inc.Roofing Waterproofing &Roofing Damproofg) <i>ROOFERS LOCAL 33</i>	08/01/2024	\$51.03	\$13.03	\$21.70	\$0.00	\$85.76
	02/01/2025	\$52.28	\$13.03	\$21.70	\$0.00	\$87.01
	08/01/2025	\$53.78	\$13.03	\$21.70	\$0.00	\$88.51
	02/01/2026	\$55.03	\$13.03	\$21.70	\$0.00	\$89.76

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - ROOFER - Local 33

Effective Date - 08/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.52	\$13.03	\$6.52	\$0.00	\$45.07
2	60	\$30.62	\$13.03	\$21.70	\$0.00	\$65.35
3	65	\$33.17	\$13.03	\$21.70	\$0.00	\$67.90
4	75	\$38.27	\$13.03	\$21.70	\$0.00	\$73.00
5	85	\$43.38	\$13.03	\$21.70	\$0.00	\$78.11

Effective Date - 02/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.14	\$13.03	\$6.52	\$0.00	\$45.69
2	60	\$31.37	\$13.03	\$21.70	\$0.00	\$66.10
3	65	\$33.98	\$13.03	\$21.70	\$0.00	\$68.71
4	75	\$39.21	\$13.03	\$21.70	\$0.00	\$73.94
5	85	\$44.44	\$13.03	\$21.70	\$0.00	\$79.17

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 <i>ROOFERS LOCAL 33</i>	08/01/2024	\$51.28	\$13.03	\$21.70	\$0.00	\$86.01
	02/01/2025	\$52.53	\$13.03	\$21.70	\$0.00	\$87.26
	08/01/2025	\$54.03	\$13.03	\$21.70	\$0.00	\$88.76
	02/01/2026	\$55.28	\$13.03	\$21.70	\$0.00	\$90.01

For apprentice rates see "Apprentice- ROOFER"

SHEETMETAL WORKER <i>SHEETMETAL WORKERS LOCAL 17 - A</i>	08/01/2024	\$57.94	\$14.75	\$28.12	\$2.98	\$103.79
	02/01/2025	\$59.69	\$14.75	\$28.12	\$2.98	\$105.54
	08/01/2025	\$61.54	\$14.75	\$28.12	\$2.98	\$107.39
	02/01/2026	\$63.49	\$14.75	\$28.12	\$2.98	\$109.34

Apprentice - SHEET METAL WORKER - Local 17-A

Effective Date - 08/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	42	\$24.33	\$14.75	\$6.13	\$0.00	\$45.21
2	42	\$24.33	\$14.75	\$6.13	\$0.00	\$45.21
3	47	\$27.23	\$14.75	\$12.11	\$1.63	\$55.72
4	47	\$27.23	\$14.75	\$12.11	\$1.63	\$55.72
5	52	\$30.13	\$14.75	\$13.09	\$1.75	\$59.72
6	52	\$30.13	\$14.75	\$13.34	\$1.76	\$59.98
7	60	\$34.76	\$14.75	\$14.75	\$1.94	\$66.20
8	65	\$37.66	\$14.75	\$15.73	\$2.06	\$70.20
9	75	\$43.46	\$14.75	\$17.69	\$2.30	\$78.20
10	85	\$49.25	\$14.75	\$19.15	\$2.52	\$85.67

Effective Date - 02/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	42	\$25.07	\$14.75	\$6.13	\$0.00	\$45.95
2	42	\$25.07	\$14.75	\$6.13	\$0.00	\$45.95
3	47	\$28.05	\$14.75	\$12.11	\$1.66	\$56.57
4	47	\$28.05	\$14.75	\$12.11	\$1.66	\$56.57
5	52	\$31.04	\$14.75	\$13.09	\$1.78	\$60.66
6	52	\$31.04	\$14.75	\$13.34	\$1.79	\$60.92
7	60	\$35.81	\$14.75	\$14.75	\$1.97	\$67.28
8	65	\$38.80	\$14.75	\$15.73	\$2.09	\$71.37
9	75	\$44.77	\$14.75	\$17.69	\$2.33	\$79.54
10	85	\$50.74	\$14.75	\$19.15	\$2.56	\$87.20

Notes:
Steps are 6 mos.

Apprentice to Journeyworker Ratio:1:4

SPECIALIZED EARTH MOVING EQUIP < 35 TONS	08/01/2024	\$41.34	\$14.91	\$18.67	\$0.00	\$74.92
TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	12/01/2024	\$41.34	\$14.91	\$20.17	\$0.00	\$76.42
	06/01/2025	\$42.34	\$14.91	\$20.17	\$0.00	\$77.42
	08/01/2025	\$42.34	\$15.41	\$20.17	\$0.00	\$77.92
	12/01/2025	\$42.34	\$15.41	\$21.78	\$0.00	\$79.53
	06/01/2026	\$43.34	\$15.41	\$21.78	\$0.00	\$80.53
	08/01/2026	\$43.34	\$15.91	\$21.78	\$0.00	\$81.03
	12/01/2026	\$43.34	\$15.91	\$23.52	\$0.00	\$82.77

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
SPECIALIZED EARTH MOVING EQUIP > 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE A</i>	08/01/2024	\$41.63	\$14.91	\$18.67	\$0.00	\$75.21
	12/01/2024	\$41.63	\$14.91	\$20.17	\$0.00	\$76.71
	06/01/2025	\$42.63	\$14.91	\$20.17	\$0.00	\$77.71
	08/01/2025	\$42.63	\$15.41	\$20.17	\$0.00	\$78.21
	12/01/2025	\$42.63	\$15.41	\$21.78	\$0.00	\$79.82
	06/01/2026	\$43.63	\$15.41	\$21.78	\$0.00	\$80.82
	08/01/2026	\$43.63	\$15.91	\$21.78	\$0.00	\$81.32
	12/01/2026	\$43.63	\$15.91	\$23.52	\$0.00	\$83.06
SPRINKLER FITTER <i>SPRINKLER FITTERS LOCAL 550 - (Section A) Zone 1</i>	10/01/2024	\$70.84	\$11.51	\$23.30	\$0.00	\$105.65
	03/01/2025	\$72.64	\$11.51	\$23.30	\$0.00	\$107.45

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

Effective Date - 10/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$24.79	\$11.51	\$12.90	\$0.00	\$49.20
2	40	\$28.34	\$11.51	\$13.70	\$0.00	\$53.55
3	45	\$31.88	\$11.51	\$14.50	\$0.00	\$57.89
4	50	\$35.42	\$11.51	\$15.30	\$0.00	\$62.23
5	55	\$38.96	\$11.51	\$16.10	\$0.00	\$66.57
6	60	\$42.50	\$11.51	\$16.90	\$0.00	\$70.91
7	65	\$46.05	\$11.51	\$17.70	\$0.00	\$75.26
8	70	\$49.59	\$11.51	\$18.50	\$0.00	\$79.60
9	75	\$53.13	\$11.51	\$19.30	\$0.00	\$83.94
10	80	\$56.67	\$11.51	\$20.10	\$0.00	\$88.28

Effective Date - 03/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$25.42	\$11.51	\$12.90	\$0.00	\$49.83
2	40	\$29.06	\$11.51	\$13.70	\$0.00	\$54.27
3	45	\$32.69	\$11.51	\$14.50	\$0.00	\$58.70
4	50	\$36.32	\$11.51	\$15.30	\$0.00	\$63.13
5	55	\$39.95	\$11.51	\$16.10	\$0.00	\$67.56
6	60	\$43.58	\$11.51	\$16.90	\$0.00	\$71.99
7	65	\$47.22	\$11.51	\$17.70	\$0.00	\$76.43
8	70	\$50.85	\$11.51	\$18.50	\$0.00	\$80.86
9	75	\$54.48	\$11.51	\$19.30	\$0.00	\$85.29
10	80	\$58.11	\$11.51	\$20.10	\$0.00	\$89.72

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

Apprentice to Journeyworker Ratio:1:3

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
STEAM BOILER OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2024	\$55.41	\$15.30	\$16.40	\$0.00	\$87.11
	12/01/2024	\$56.85	\$15.30	\$16.40	\$0.00	\$88.55
	06/01/2025	\$58.13	\$15.30	\$16.40	\$0.00	\$89.83
	12/01/2025	\$59.57	\$15.30	\$16.40	\$0.00	\$91.27
	06/01/2026	\$60.85	\$15.30	\$16.40	\$0.00	\$92.55
	12/01/2026	\$62.29	\$15.30	\$16.40	\$0.00	\$93.99
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TAMPERS, SELF-PROPELLED OR TRACTOR DRAWN <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2024	\$55.41	\$15.30	\$16.40	\$0.00	\$87.11
	12/01/2024	\$56.85	\$15.30	\$16.40	\$0.00	\$88.55
	06/01/2025	\$58.13	\$15.30	\$16.40	\$0.00	\$89.83
	12/01/2025	\$59.57	\$15.30	\$16.40	\$0.00	\$91.27
	06/01/2026	\$60.85	\$15.30	\$16.40	\$0.00	\$92.55
	12/01/2026	\$62.29	\$15.30	\$16.40	\$0.00	\$93.99
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TELECOMMUNICATION TECHNICIAN <i>ELECTRICIANS LOCAL 103</i>	09/01/2024	\$51.02	\$13.00	\$20.24	\$0.00	\$84.26
	03/01/2025	\$51.98	\$13.00	\$20.27	\$0.00	\$85.25
	09/01/2025	\$53.51	\$13.00	\$20.32	\$0.00	\$86.83
	03/01/2026	\$54.47	\$13.00	\$20.34	\$0.00	\$87.81
	09/01/2026	\$56.00	\$13.00	\$20.39	\$0.00	\$89.39
	03/01/2027	\$56.95	\$13.00	\$20.42	\$0.00	\$90.37
	09/01/2027	\$58.49	\$13.00	\$20.46	\$0.00	\$91.95
	03/01/2028	\$59.45	\$13.00	\$20.49	\$0.00	\$92.94

Apprentice - TELECOMMUNICATION TECHNICIAN - Local 103

Effective Date - 09/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$22.96	\$13.00	\$0.69	\$0.00	\$36.65
2	45	\$22.96	\$13.00	\$0.69	\$0.00	\$36.65
3	50	\$25.51	\$13.00	\$16.16	\$0.00	\$54.67
4	50	\$25.51	\$13.00	\$16.16	\$0.00	\$54.67
5	55	\$28.06	\$13.00	\$16.57	\$0.00	\$57.63
6	60	\$30.61	\$13.00	\$16.97	\$0.00	\$60.58
7	65	\$33.16	\$13.00	\$17.38	\$0.00	\$63.54
8	70	\$35.71	\$13.00	\$17.78	\$0.00	\$66.49
9	75	\$38.27	\$13.00	\$18.18	\$0.00	\$69.45
10	80	\$40.82	\$13.00	\$18.58	\$0.00	\$72.40

Effective Date - 03/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$23.39	\$13.00	\$0.70	\$0.00	\$37.09
2	45	\$23.39	\$13.00	\$0.70	\$0.00	\$37.09
3	50	\$25.99	\$13.00	\$16.16	\$0.00	\$55.15
4	50	\$25.99	\$13.00	\$16.16	\$0.00	\$55.15
5	55	\$28.59	\$13.00	\$16.57	\$0.00	\$58.16
6	60	\$31.19	\$13.00	\$16.97	\$0.00	\$61.16
7	65	\$33.79	\$13.00	\$17.38	\$0.00	\$64.17
8	70	\$36.39	\$13.00	\$17.78	\$0.00	\$67.17
9	75	\$38.99	\$13.00	\$18.18	\$0.00	\$70.17
10	80	\$41.58	\$13.00	\$18.58	\$0.00	\$73.16

Notes:

Apprentice to Journeyworker Ratio:1:1

TERRAZZO FINISHERS	08/01/2024	\$63.44	\$11.49	\$23.59	\$0.00	\$98.52
BRICKLAYERS LOCAL 3 - MARBLE & TILE	02/01/2025	\$64.74	\$11.49	\$23.59	\$0.00	\$99.82
	08/01/2025	\$66.89	\$11.49	\$23.59	\$0.00	\$101.97
	02/01/2026	\$68.24	\$11.49	\$23.59	\$0.00	\$103.32
	08/01/2026	\$70.44	\$11.49	\$23.59	\$0.00	\$105.52
	02/01/2027	\$71.84	\$11.49	\$23.59	\$0.00	\$106.92

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - TERRAZZO FINISHER - Local 3 Marble & Tile

Effective Date - 08/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$31.72	\$11.49	\$23.59	\$0.00	\$66.80
2	60	\$38.06	\$11.49	\$23.59	\$0.00	\$73.14
3	70	\$44.41	\$11.49	\$23.59	\$0.00	\$79.49
4	80	\$50.75	\$11.49	\$23.59	\$0.00	\$85.83
5	90	\$57.10	\$11.49	\$23.59	\$0.00	\$92.18

Effective Date - 02/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$32.37	\$11.49	\$23.59	\$0.00	\$67.45
2	60	\$38.84	\$11.49	\$23.59	\$0.00	\$73.92
3	70	\$45.32	\$11.49	\$23.59	\$0.00	\$80.40
4	80	\$51.79	\$11.49	\$23.59	\$0.00	\$86.87
5	90	\$58.27	\$11.49	\$23.59	\$0.00	\$93.35

Notes:

Apprentice to Journeyworker Ratio:1:3

TEST BORING DRILLER <i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2024	\$49.81	\$9.65	\$18.22	\$0.00	\$77.68
	12/01/2024	\$51.28	\$9.65	\$18.22	\$0.00	\$79.15
	06/01/2025	\$52.78	\$9.65	\$18.22	\$0.00	\$80.65
	12/01/2025	\$54.28	\$9.65	\$18.22	\$0.00	\$82.15
	06/01/2026	\$55.83	\$9.65	\$18.22	\$0.00	\$83.70
	12/01/2026	\$57.33	\$9.65	\$18.22	\$0.00	\$85.20

For apprentice rates see "Apprentice- LABORER"

TEST BORING DRILLER HELPER <i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2024	\$45.60	\$9.65	\$18.22	\$0.00	\$73.47
	12/01/2024	\$47.07	\$9.65	\$18.22	\$0.00	\$74.94
	06/01/2025	\$48.57	\$9.65	\$18.22	\$0.00	\$76.44
	12/01/2025	\$50.07	\$9.65	\$18.22	\$0.00	\$77.94
	06/01/2026	\$51.62	\$9.65	\$18.22	\$0.00	\$79.49
	12/01/2026	\$53.12	\$9.65	\$18.22	\$0.00	\$80.99

For apprentice rates see "Apprentice- LABORER"

TEST BORING LABORER <i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2024	\$45.48	\$9.65	\$18.22	\$0.00	\$73.35
	12/01/2024	\$46.95	\$9.65	\$18.22	\$0.00	\$74.82
	06/01/2025	\$48.45	\$9.65	\$18.22	\$0.00	\$76.32
	12/01/2025	\$49.95	\$9.65	\$18.22	\$0.00	\$77.82
	06/01/2026	\$51.50	\$9.65	\$18.22	\$0.00	\$79.37
	12/01/2026	\$53.00	\$9.65	\$18.22	\$0.00	\$80.87

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TRACTORS/PORTABLE STEAM GENERATORS <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2024	\$55.41	\$15.30	\$16.40	\$0.00	\$87.11
	12/01/2024	\$56.85	\$15.30	\$16.40	\$0.00	\$88.55
	06/01/2025	\$58.13	\$15.30	\$16.40	\$0.00	\$89.83
	12/01/2025	\$59.57	\$15.30	\$16.40	\$0.00	\$91.27
	06/01/2026	\$60.85	\$15.30	\$16.40	\$0.00	\$92.55
	12/01/2026	\$62.29	\$15.30	\$16.40	\$0.00	\$93.99
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TRAILERS FOR EARTH MOVING EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE A</i>	08/01/2024	\$41.92	\$14.91	\$18.67	\$0.00	\$75.50
	12/01/2024	\$41.92	\$14.91	\$20.17	\$0.00	\$77.00
	06/01/2025	\$42.92	\$14.91	\$20.17	\$0.00	\$78.00
	08/01/2025	\$42.92	\$15.41	\$20.17	\$0.00	\$78.50
	12/01/2025	\$42.92	\$15.41	\$21.78	\$0.00	\$80.11
	06/01/2026	\$43.92	\$15.41	\$21.78	\$0.00	\$81.11
	08/01/2026	\$43.92	\$15.91	\$21.78	\$0.00	\$81.61
	12/01/2026	\$43.92	\$15.91	\$23.52	\$0.00	\$83.35
TUNNEL WORK - COMPRESSED AIR <i>LABORERS (COMPRESSED AIR)</i>	06/01/2024	\$57.71	\$9.65	\$19.00	\$0.00	\$86.36
	12/01/2024	\$59.18	\$9.65	\$19.00	\$0.00	\$87.83
	06/01/2025	\$60.68	\$9.65	\$19.00	\$0.00	\$89.33
	12/01/2025	\$62.18	\$9.65	\$19.00	\$0.00	\$90.83
	06/01/2026	\$63.73	\$9.65	\$19.00	\$0.00	\$92.38
	12/01/2026	\$65.23	\$9.65	\$19.00	\$0.00	\$93.88
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE) <i>LABORERS (COMPRESSED AIR)</i>	06/01/2024	\$59.71	\$9.65	\$19.00	\$0.00	\$88.36
	12/01/2024	\$61.18	\$9.65	\$19.00	\$0.00	\$89.83
	06/01/2025	\$62.68	\$9.65	\$19.00	\$0.00	\$91.33
	12/01/2025	\$64.18	\$9.65	\$19.00	\$0.00	\$92.83
	06/01/2026	\$65.73	\$9.65	\$19.00	\$0.00	\$94.38
	12/01/2026	\$67.23	\$9.65	\$19.00	\$0.00	\$95.88
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR <i>LABORERS (FREE AIR TUNNEL)</i>	06/01/2024	\$49.78	\$9.65	\$19.00	\$0.00	\$78.43
	12/01/2024	\$51.25	\$9.65	\$19.00	\$0.00	\$79.90
	06/01/2025	\$52.75	\$9.65	\$19.00	\$0.00	\$81.40
	12/01/2025	\$54.25	\$9.65	\$19.00	\$0.00	\$82.90
	06/01/2026	\$55.80	\$9.65	\$19.00	\$0.00	\$84.45
	12/01/2026	\$57.30	\$9.65	\$19.00	\$0.00	\$85.95
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR (HAZ. WASTE) <i>LABORERS (FREE AIR TUNNEL)</i>	06/01/2024	\$51.78	\$9.65	\$19.00	\$0.00	\$80.43
	12/01/2024	\$53.25	\$9.65	\$19.00	\$0.00	\$81.90
	06/01/2025	\$54.75	\$9.65	\$19.00	\$0.00	\$83.40
	12/01/2025	\$56.25	\$9.65	\$19.00	\$0.00	\$84.90
	06/01/2026	\$57.80	\$9.65	\$19.00	\$0.00	\$86.45
	12/01/2026	\$59.30	\$9.65	\$19.00	\$0.00	\$87.95
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
VAC-HAUL <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE A</i>	08/01/2024	\$41.34	\$14.91	\$18.67	\$0.00	\$74.92
	12/01/2024	\$41.34	\$14.91	\$20.17	\$0.00	\$76.42
	06/01/2025	\$42.34	\$14.91	\$20.17	\$0.00	\$77.42
	08/01/2025	\$42.34	\$15.41	\$20.17	\$0.00	\$77.92
	12/01/2025	\$42.34	\$15.41	\$21.78	\$0.00	\$79.53
	06/01/2026	\$43.34	\$15.41	\$21.78	\$0.00	\$80.53
	08/01/2026	\$43.34	\$15.91	\$21.78	\$0.00	\$81.03
	12/01/2026	\$43.34	\$15.91	\$23.52	\$0.00	\$82.77
WAGON DRILL OPERATOR <i>LABORERS - ZONE 2</i>	06/01/2024	\$39.28	\$9.65	\$18.40	\$0.00	\$67.33
	12/01/2024	\$40.61	\$9.65	\$18.40	\$0.00	\$68.66
	06/01/2025	\$42.00	\$9.65	\$18.40	\$0.00	\$70.05
	12/01/2025	\$43.38	\$9.65	\$18.40	\$0.00	\$71.43
	06/01/2026	\$44.82	\$9.65	\$18.40	\$0.00	\$72.87
	12/01/2026	\$46.26	\$9.65	\$18.40	\$0.00	\$74.31
	06/01/2027	\$47.71	\$9.65	\$18.40	\$0.00	\$75.76
	12/01/2027	\$49.16	\$9.65	\$18.40	\$0.00	\$77.21
	06/01/2028	\$50.66	\$9.65	\$18.40	\$0.00	\$78.71
	12/01/2028	\$52.16	\$9.65	\$18.40	\$0.00	\$80.21
For apprentice rates see "Apprentice- LABORER"						
WAGON DRILL OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 2 (HEAVY & HIGHWAY)</i>	06/01/2024	\$38.78	\$9.65	\$17.80	\$0.00	\$66.23
	12/01/2024	\$40.11	\$9.65	\$17.80	\$0.00	\$67.56
	06/01/2025	\$41.50	\$9.65	\$17.80	\$0.00	\$68.95
	12/01/2025	\$42.88	\$9.65	\$17.80	\$0.00	\$70.33
	06/01/2026	\$44.32	\$9.65	\$17.80	\$0.00	\$71.77
	12/01/2026	\$45.76	\$9.65	\$17.80	\$0.00	\$73.21
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
WASTE WATER PUMP OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2024	\$56.03	\$15.30	\$16.40	\$0.00	\$87.73
	12/01/2024	\$57.48	\$15.30	\$16.40	\$0.00	\$89.18
	06/01/2025	\$58.78	\$15.30	\$16.40	\$0.00	\$90.48
	12/01/2025	\$60.23	\$15.30	\$16.40	\$0.00	\$91.93
	06/01/2026	\$61.53	\$15.30	\$16.40	\$0.00	\$93.23
	12/01/2026	\$62.98	\$15.30	\$16.40	\$0.00	\$94.68
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
WATER METER INSTALLER <i>PLUMBERS & GASFITTERS LOCAL 12</i>	09/01/2024	\$69.04	\$14.32	\$19.61	\$0.00	\$102.97
	03/02/2025	\$70.84	\$14.32	\$19.61	\$0.00	\$104.77
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"						

Additional Apprentice Information:

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

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

All steps are six months (1000 hours.)

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.