CS

COMMONWEALTH OF MASSACHUSETTS

CONTRACT DOCUMENTS AND SPECIAL PROVISIONS

PROPOSAL NO.	616282-135581
P.V. =	$1,853,000.00
PLANS	NO

FOR

Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 1)

in the Towns of

ASHFIELD-CHARLEMONT-CONWAY-HAWLEY

In accordance with the STANDARD SPECIFICATIONS
for HIGHWAYS and BRIDGES dated 2026

This Proposal to be opened and read: **TUESDAY, AUGUST 25, 2026 at 2:00 P.M.**

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DOCUMENT 00102

NOTICE TO CONTRACTORS

Electronic proposals for the following project will be received through the internet using www.bidx.com until the date and time stated below and will be posted on www.bidx.com forthwith after the bid submission deadline. No paper copies of bids will be accepted. All Bidders must have a valid vendor code issued by MassDOT in order to bid on projects. Bidders need to apply for a Digital ID at least 14 days prior to a scheduled bid opening date with www.bidx.com.

TUESDAY, AUGUST 25, 2026 at 2:00 P.M. **
ASHFIELD-CHARLEMONT-CONWAY-HAWLEY
Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 1)
****Date Subject to Change**

PROJECT VALUE = $1,853,000.00

Bidders must be pre-qualified by the Department in the BRIDGE - CONSTRUCTION category to bid on the above project. An award will not be made to a Contractor who is not pre-qualified by the Department prior to the opening of Proposals.

All prospective Bidders who intend to bid on this project must obtain "Request Proposal Form (R109)". The blank "Request Proposal Form (R109)" can be obtained at: https://www.mass.gov/prequalification-of-horizontal-construction-firms.

All prospective Bidders must complete and e-mail an electronic copy of "Request Proposal Form (R109)" to the MassDOT Director of Prequalification for approval: prequal.r109@dot.state.ma.us.

Proposal documents for official bidders are posted on www.bidx.com. Other interested parties may receive informational Contract Documents containing the Plans and Special Provisions, free of charge.

Bids will be considered, and the contract awarded in accordance with statutes governing such contracts in accordance with Massachusetts General Laws Chapter 30 § 39M.

The Project Bids File Attachments folder for proposals at www.bidx.com shall be used for submitting at the time of bid required information such as the Bid Bond required document, and other documents that may be requested in the proposal.

NOTICE TO CONTRACTORS (Continued)

All parties who wish to have access to information plans and specification must send a "Request for Informational Documents" to MassDOTBidDocuments@dot.state.ma.us.

A Proposal Guaranty in the amount of 5% of the value of the bid is required.

This project is subject to the schedule of prevailing wage rates as determined by the Commissioner of the Massachusetts Department of Labor and Workforce Development, and the Division of Occupational Safety.

PRICE ADJUSTMENTS

This Contract contains price adjustments for hot mix asphalt and Portland cement mixtures, diesel fuel, and gasoline. For reference the base prices are as follows: liquid asphalt $712.50 per ton, Portland cement $452.13 per ton, diesel fuel $3.911 per gallon, and gasoline $3.136 per gallon, and Steel Base Price Index 370.1. MassDOT posts the **Price Adjustments** on their Highway Division's website at
https://www.mass.gov/massdot-contract-price-adjustments

This Contract contains Price Adjustments for steel. See Document 00813 - PRICE ADJUSTMENT FOR STRUCTURAL STEEL AND REINFORCING STEEL for their application and base prices.

MassDOT projects are subject to the rules and regulations of the Architectural Access Board (521 CMR 1.00 et seq.)

Prospective bidders and interested parties can access this information and more via the internet at WWW.COMMBUYS.COM.

BY: Phillip Eng, Interim MassDOT Secretary
Jonathan L. Gulliver, Undersecretary and Highway Administrator
SATURDAY, JULY 18, 2026

DOCUMENT 00210

REQUIREMENTS OF MASSACHUSETTS GENERAL LAWS
CHAPTER 30, SECTION 39R;
CHAPTER 30, SECTION 39O

July 1, 1981, updated October 2016

M.G.L. c. 30, § 39R. Award of Contracts; Accounting Statements; Annual Financial Statements; Definitions.

(a) The words defined herein shall have the meaning stated below whenever they appear in this section:

(1) “Contractor" means any person, corporation, partnership, joint venture, sole proprietorship, or other entity awarded a contract pursuant to sections thirty-eight A1/2 to thirty-eight O, inclusive, of chapter seven and any contract awarded or executed pursuant to section eleven C of chapter twenty-five A, section thirty-nine M of chapter thirty, or sections forty-four A to forty-four H, inclusive, of chapter one hundred and forty-nine, which is for an amount or estimated amount greater than one hundred thousand dollars.

(2) "Contract" means any contract awarded or executed pursuant to sections thirty-eight A1/2 to thirty-eight O, inclusive, of chapter seven and any contract awarded or executed pursuant to section eleven C of chapter twenty-five A, section thirty-nine M of chapter thirty, or sections forty-four A through forty-four H, inclusive, of chapter one hundred and forty-nine, which is for amount or estimated amount greater than one hundred thousand dollars.

(3) “Records" means books of original entry, accounts, checks, bank statements and all other banking documents, correspondence, memoranda, invoices, computer printouts, tapes, discs, papers and other documents or transcribed information of any type, whether expressed in ordinary or machine language.

(4) “Independent Certified Public Accountant" means a person duly registered in good standing and entitled to practice as a certified public accountant under the laws of the place of his residence or principal office and who is in fact independent. In determining whether an accountant is independent with respect to a particular person, appropriate consideration should be given to all relationships between the accountant and that person or any affiliate thereof. Determination of an accountant's independence shall not be confined to the relationships existing in connection with the filing of reports with the awarding authority.

(5) “Audit", when used in regard to financial statements, means an examination of records by an independent certified public accountant in accordance with generally accepted accounting principles and auditing standards for the purpose of expressing a certified opinion thereon, or, in the alternative, a qualified opinion or a declination to express an opinion for stated reasons.

(6) "Accountant's Report", when used in regard to financial statements, means a document in which an independent certified public accountant indicates the scope of the audit which he has made and sets forth his opinion regarding the financial statements taken as a whole with a listing of noted exceptions and qualifications, or an assertion to the effect that an overall opinion cannot be expressed. When an overall opinion cannot be expressed the reason therefor shall be stated. An accountant's report shall include as a part thereof a signed statement by the responsible corporate officer attesting that management has fully disclosed all material facts to the independent certified public accountant, and that the audited financial statement is a true and complete statement of the financial condition of the contractor.

(7) “Management", when used herein, means the chief executive officers, partners, principals or other person or persons primarily responsible for the financial and operational policies and practices of the contractor.

(8) Accounting terms, unless otherwise defined herein, shall have a meaning in accordance with generally accepted accounting principles and auditing standards.

(b) Subsection (a)(2) hereof notwithstanding, every agreement or contract awarded or executed pursuant to sections thirty-eight A 1/2 to thirty-eight O, inclusive, of chapter seven, or eleven C of chapter twenty-five A, and pursuant to section thirty-nine M of chapter thirty or to section forty-four A through H, inclusive, of chapter one hundred and forty-nine, shall provide that:

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

(2) Until the expiration of six years after final payment, the office of inspector general, and the commissioner of capital asset management and maintenance shall have the right to examine any books, documents, papers or records of the contractor or of his subcontractors that directly pertain to, and involve transactions relating to, the contractor or his subcontractors, and

(3) If the agreement is a contract as defined herein, the contractor shall describe any change in the method of maintaining records or recording transactions which materially affect any statements filed with the awarding authority, including in his description the date of the change and reasons therefor, and shall accompany said description with a letter from the contractor's independent certified public accountant approving or otherwise commenting on the changes, and

(4) If the agreement is a contract as defined herein, the contractor has filed a statement of management on internal accounting controls as set forth in paragraph (c) below prior to the execution of the contract, and

(5) If the agreement is a contract as defined herein, the contractor has filed prior to the execution of the contracts and will continue to file annually, an audited financial statement for the most recent completed fiscal year as set forth in paragraph (d) below.

(c) Every contractor awarded a contract shall file with the awarding authority a statement of management as to whether the system of internal accounting controls of the contractor and its subsidiaries reasonably assures that:

(1) transactions are executed in accordance with management's general and specific authorization;

(2) transactions are recorded as necessary

i. to permit preparation of financial statements in conformity with generally accepted accounting principles, and

ii. to maintain accountability for assets;

(3) access to assets is permitted only in accordance with management's general or specific authorization; and

(4) the recorded accountability for assets is compared with the existing assets at reasonable intervals and appropriate action was taken with respect to any difference.

Every contractor awarded a contract shall also file with the awarding authority a statement prepared and signed by an independent certified public accountant, stating that he has examined the statement of management on internal accounting controls, and expressing an opinion as to:

(1) whether the representations of management in response to this paragraph and paragraph (b) above are consistent with the result of management's evaluation of the system of internal accounting controls; and

(2) whether such representations of management are, in addition, reasonable with respect to transactions and assets in amounts which would be material when measured in relation to the applicant's financial statements.

(d) Every contractor awarded a contract by the commonwealth or by any political subdivision thereof shall annually file with the commissioner of capital asset management and maintenance during the term of the contract a financial statement prepared by an independent certified public accountant on the basis of an audit by such accountant. The final statement filed shall include the date of final payment. All statements shall be accompanied by an accountant's report. Such statements shall be made available to the awarding authority upon request.

(e) The office of inspector general, the commissioner of capital asset management and maintenance and any other awarding authority shall enforce the provisions of this section. The commissioner of capital asset management and maintenance may after providing an opportunity for the inspector general and other interested parties to comment, promulgate pursuant to the provisions of chapter thirty A such rules, regulations and guidelines as are necessary to effectuate the purposes of this section. Such rules, regulations and guidelines may be applicable to all awarding authorities. A contractor's failure to satisfy any of the requirements of this section may be grounds for debarment pursuant to section forty-four C of chapter one hundred and forty-nine.

(f) Records and statements required to be made, kept or filed under the provisions of this section shall not be public records as defined in section seven of chapter four and shall not be open to public inspection; provided, however, that such records and statements shall be made available pursuant to the provisions of clause (2) of paragraph (b).

M.G.L. c. 30, § 39O: Suspension, Delay, or Interruption or Failure to Act by Awarding Authority; Adjustment in Contract Price; Submission of Claims.

Section 39O. Every contract subject to the provisions of section thirty-nine M of this chapter or subject to section forty-four A of chapter one hundred forty-nine shall contain the following provisions (a) and (b) in their entirety and, in the event a suspension, delay, interruption or failure to act of the awarding authority increases the cost of performance to any subcontractor, that subcontractor shall have the same rights against the general contractor for payment for an increase in the cost of his performance as provisions (a) and (b) give the general contractor against the awarding authority, but nothing in provisions (a) and (b) shall in any way change, modify or alter any other rights which the general contractor or the subcontractor may have against each other.

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

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

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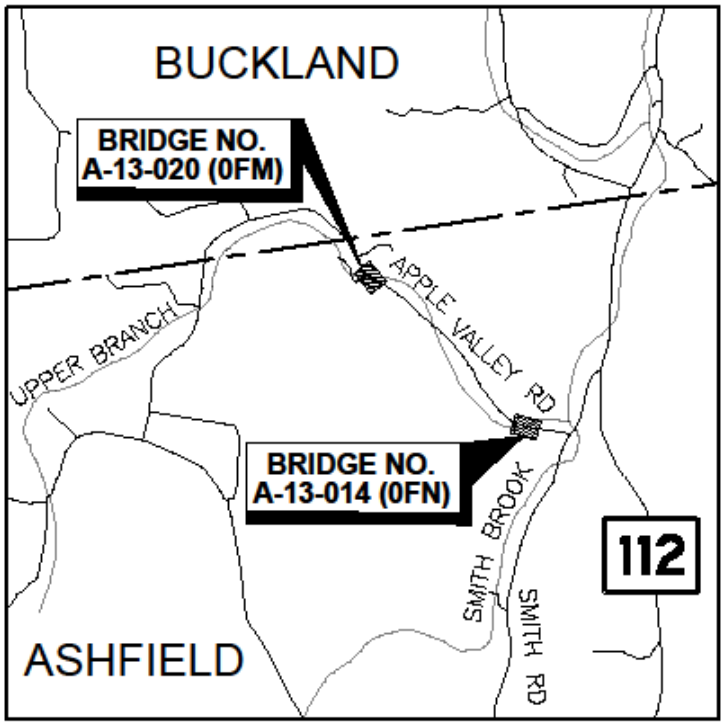
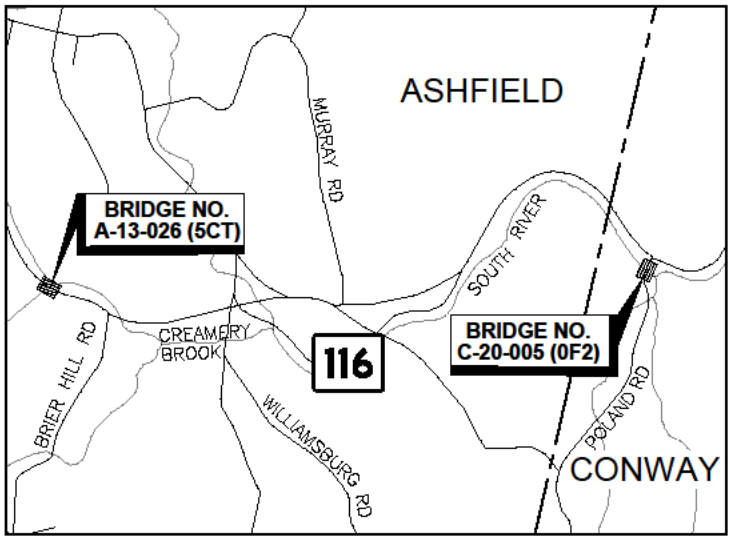
DOCUMENT 00331

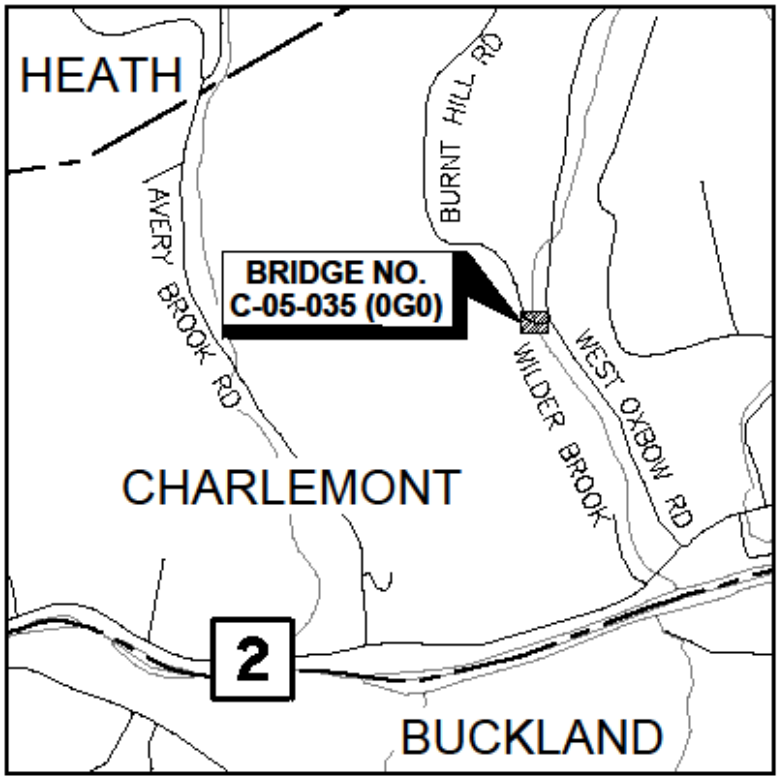
LOCUS MAP

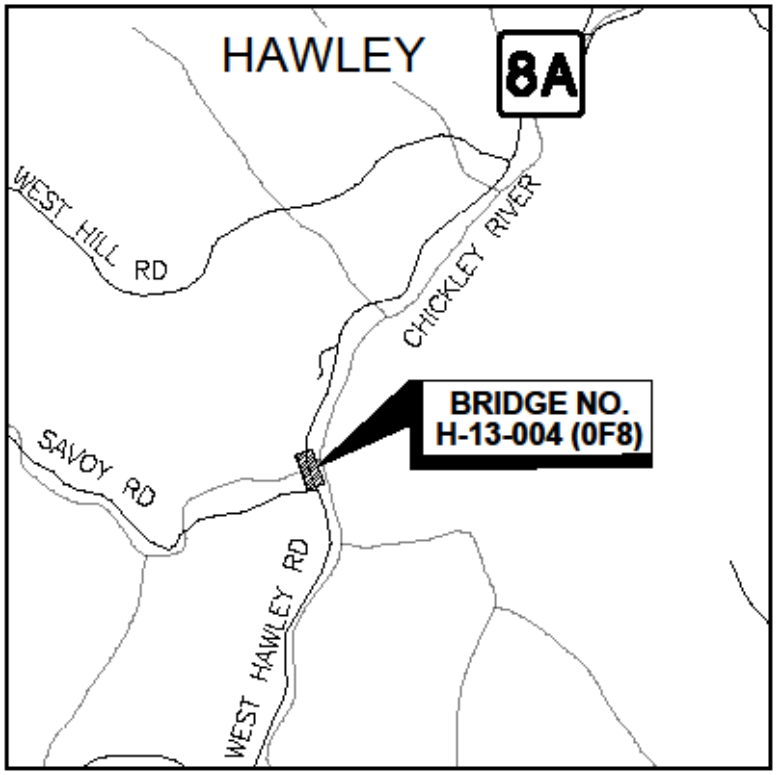
ASHHFIELD-CHARLEMONT-CONWAY-HAWLEY
Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 1)





NOT TO SCALE


HEATH
BURNT HILL RD
AVERY BROOK RD
BRIDGE NO.
C-05-035 (0G0)
WILDER BROOK
WEST OXBOW RD
CHARLEMONT
2
BUCKLAND


HAWLEY
8A
WEST HILL RD
CHICKLEY RIVER
BRIDGE NO.
H-13-004 (0F8)
SAVOY RD
WEST HAWLEY RD

NOT TO SCALE

DOCUMENT 00439

Final Report ☐

Interim Report ☐

CONTRACTOR PROJECT EVALUATION FORM

For instructions on using this form, see Engineering Directive E-10-002, Dated 4/20/2010

Date: _____

City/Town: _____ Contractor: _____

Project: _____ Address: _____

F.A. No. _____ Contract Number: _____

Bid Price: _____ Notice to Proceed: _____

Funds: State: _____ Fed Aid: _____ Current Contract Completion Date: _____

Date Work Started: _____ Date Work Completed*: _____

Contractor's Superintendent: _____

Division: (indicates class of work) Highway: _____ Bridge: _____ Maintenance: _____

*If work was NOT completed within specified time (including extensions) give reasons on following page.

	Excellent 10	Very Good 9	Average 8	7	Fair 6	5	Poor 4	% Rating
1. Workmanship								x 2=
2. Safety								x 2=
3. Schedule								x 1.5=
4. Home Office Support								x 1=
5. Subcontractors Performance								x 1=
6. Field Supervision/ Superintendent								x 1=
7. Contract Compliance								x 0.5=
8. Equipment								x 0.5=
9. Payment of Accounts								x 0.5=
(use back for additional comments)						**Overall Rating:**		

(Give explanation of items 1 through 9 on the following page in numerical order if overall rating is below 80%. Use additional sheets if necessary.)

_____ _____

District Construction Engineer's Signature/Date Resident Engineer's Signature/Date

_____

Contractor's Signature Acknowledging Report/Date

Contractor Requests Meeting with the District: No ☐ Yes ☐ Date Meeting Held: _____

Contractor's Comments/Meeting Notes (extra sheets may be added to this form and noted here if needed): _____

_____

_____

CONTRACTOR PROJECT EVALUATION FORM (Continued)

Date: _____ Contract Number: _____

INFORMATION FOR DISTRICT HIGHWAY DIRECTORS RELATING TO PREQUALIFICATION

A deduction shall be recommended for unsatisfactory performance if computed overall rating is under 80%.
A deduction may be recommended for this project being completed late due to the Contractor's fault.

RECOMMENDATIONS FOR DEDUCTIONS FROM CONTRACTORS' ASSIGNED FACTOR
(*Write Yes or No in space provided*)

I recommend a deduction for Contractor's unsatisfactory performance: _____

I recommend a deduction for project completed late: _____

Signed: _____
District Highway Director

EXPLANATION OF RATINGS 1 – 9: _____

WORK NOT COMPLETED WITHIN SPECIFIED TIME: _____

Revised: 04/28/17

*** END OF DOCUMENT ***

DOCUMENT 00440

Final Report ☐

Interim Report ☐

SUBCONTRACTOR PROJECT EVALUATION FORM

For instructions on using this form, see Engineering Directive E-10-002, Dated 4/20/2010

Date: _____

City/Town: _____ Subcontractor: _____

Project: _____ Address: _____

F.A. No.: _____ Contract Number: _____

Prime Contractor _____ Current Contract Completion Date: _____

Date Work Started: _____ Date Work Completed*: _____

Subcontractor's Superintendent: _____

Type of Work Performed by Subcontractor: _____

*If work was NOT completed within specified time (including extensions) give reasons on following page.

	Excellent 10	Very Good 9	Average 8	7	Fair 6	5	Poor 4	% Rating
1. Workmanship								x 2=
2. Safety								x 2=
3. Schedule								x 1.5=
4. Home Office Support								x 1.5=
5. Field Supervision/ Superintendent								x 1=
6. Contract Compliance								x 1=
7. Equipment								x 0.5=
8. Payment of Accounts								x 0.5=
(use back for additional comments)							**Overall Rating:**	

(Give explanation of items 1 through 8 on the following page in numerical order if overall rating is below 80%. Use additional sheets if necessary.)

_____ _____

District Construction Engineer's Signature/Date Resident Engineer's Signature/Date

_____ _____

Contractor Signature Acknowledging Report/Date Subcontractor Signature Acknowledging Report/Date

Subcontractor Requests Meeting with the District: No ☐ Yes ☐ Date Meeting Held: _____

Subcontractor's Comments / Meeting Notes (extra sheets may be added to this form and noted here if needed):

_____

_____

Contractor's Comments: _____

_____

SUBCONTRACTOR PROJECT EVALUATION FORM (Continued)

Date: _____ Contract Number:_____

INFORMATION FOR DISTRICT HIGHWAY DIRECTORS RELATING TO PREQUALIFICATION

A deduction shall be recommended for unsatisfactory performance if computed overall rating is under 80%.
A deduction may be recommended for this project being completed late due to the Contractor's fault.

RECOMMENDATIONS FOR DEDUCTIONS FROM CONTRACTORS' ASSIGNED FACTOR
(*Write Yes or No in space provided*)

I recommend a deduction for Contractor's unsatisfactory performance: _____

I recommend a deduction for project completed late:_____

Signed: _____
District Highway Director

EXPLANATION OF RATINGS 1 – 8: _____

WORK NOT COMPLETED WITHIN SPECIFIED TIME: _____

Revised: 04/28/17

*** END OF DOCUMENT ***

DOCUMENT 00710
GENERAL CONTRACT PROVISIONS
Revised: 03-31-26

NOTICE OF AVAILABILITY

The STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES dated 2026, the SUPPLEMENTAL SPECIFICATIONS , the 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS; the 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING and the CONSTRUCTION STANDARD DETAILS are available online at https://www.mass.gov/massdot-highway-division-manuals-and-publications

SPECIAL PROVISIONS FOR RIGHT-TO-KNOW ACT REQUIREMENTS

The Contractor's attention is directed to Massachusetts General Laws, Chapter 111F, commonly known as the Right-To-Know Act, and to the regulations promulgated pursuant thereto. Among the provisions of the Right-To-Know Act is a requirement that employers make available to employees Materials Safety Data Sheets (MSDS) for any substance on the Massachusetts Substance List (MSL) to which employees are, have been, or may be exposed.

To ensure prompt compliance with these regulations and legislation, the Contractor shall:

1. Deliver to the Department, prior to the start of any work under this contract, copies of MSDS for all MSL substances to be used, stored, processed or manufactured at the worksite by the Contractor.

2. Train employees of the Department, who may be exposed to MSL substances as a result of the Contractor's work under this contract, with regard to those specific substances in accordance with requirements of the Right-To-Know Act.

3. Observe all safety precautions recommended on the MSDS for any MSL substance to be used, stored, processed, or manufactured at the worksite by the Contractor.

4. Inform the Department in writing regarding specific protective equipment recommended in the MSDS for MSL substances to which employees of the Department may be exposed as a result of the Contractor's work under this contract.

The Department shall not be liable for any delay or suspension of work caused by the refusal of its employees to perform any work due to the Contractor's failure to comply with the Right-To-Know Act. The Contractor agrees to hold the Department or the Commissioner of the Department harmless and fully indemnified for any and all claims, demands, fines, actions, complaints, and causes of action resulting from or arising out of the Contractor's failure to comply with the requirements of the Right-To-Know Act.

ALTERNATIVE DISPUTE RESOLUTION
Forum, Choice of Law and Mediations:

Any actions arising out of a contract shall be governed by the laws of Massachusetts and shall be brought and maintained in a State or federal court in Massachusetts which shall have exclusive jurisdiction thereof. MassDOT and the Contractor may both agree to mediation of any claim and will share the costs of such mediation pro rata based on the number of parties involved.

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DOCUMENT 00715

SUPPLEMENTAL SPECIFICATIONS

JUNE 30, 2026

The 2026 *Standard Specifications for Highways and Bridges* are amended by the following modifications, additions and deletions. These Supplemental Specifications prevail over those published in the Standard Specifications.

The Specifications Committee has issued these Supplemental Specifications for inclusion into each proposal until such time as they are updated or incorporated into the next Standard Specifications.

Contractors are cautioned that these Supplemental Specifications are dated and will change as they are updated.

DIVISION I

GENERAL REQUIREMENTS AND COVENANTS

SECTION 5.00: CONTROL OF WORK

Subsection 5.03: Conformity with Plans and Specifications
Change the MGL reference in the first sentence to Chapter 30, Section 39I (from Section 39L).

DIVISION II

CONSTRUCTION DETAILS

SECTION 200: DRAINAGE

SUBSECTION 227: DRAINAGE SYSTEM SEDIMENT

Subsection 227.30, Method of Measurement
Change the subsection number to 227.80

Subsection 227.31, Basis of Payment
Change the subsection number to 227.81

Subsection 227.31, Payment Items
Change the subsection number to 227.82

SECTION 400: SUB-BASE, BASE COURSE, SHOULDERS, PAVEMENT AND BERMS

SUBSECTION 430: CEMENT CONCRETE BASE COURSE

Subsection 430.40: General
Change Applied Crack Sealer to Hot Applied Crack Sealer.

SUBSECTION 476: CEMENT CONCRETE PAVEMENT

Subsection 476.20: Materials
Delete Preformed Bituminous Joint Filler for Concrete - M3.05.5 and add the following in M number sequence:

Preformed Expansion Joint Filler	M9.14.0

SUBSECTION 477: MILLED RUMBLE STRIPS

Subsection 477: Milled Rumble Strips
Replace this subsection with the following:

DESCRIPTION

477.20: General

The work consists of constructing rumble strips on roadways by milling grooves into finished surfaces. Milled Rumble Strips are categorized as Type A, Type B, Type C, or Type D. Type A are rectangular milled grooves at regular intervals in the paved surface, Type B rumble strips are rectangular grooves at regular intervals with designed gaps between intervals to accommodate bicyclists, and Type C and Type D rumble strips form continuous grooves in the paved surface in the form of a vertical sinusoidal wave pattern.

CONSTRUCTION METHODS

477.61: Equipment

The equipment shall self-align with the slope of the roadway surface and/or any irregularities in the roadway surface.

The Contractor shall demonstrate to the Engineer the ability to achieve the desired groove without tearing or snagging the roadway surface prior to beginning the work.

477.62: Installation of Rumble Strips

Rumble strips shall be installed in accordance with the locations, dimensions, and Type shown on the plans.

Type A and Type B rumble strips shall be installed after the longitudinal pavement markings they supplement (typically edge lines or channelizing lines) are in place. Installation of any diagonal or chevron pavement markings that cross the Type A or Type B rumble strips shall only occur after the rumble strips are in place.

Type C rumble strips shall be installed after the location of the longitudinal pavement markings they supplement (typically center lines) has been laid out, but before the pavement markings are installed. The pavement markings shall only be installed after the Type C rumble strips are in place.

Type D rumble strips shall be installed after the longitudinal pavement markings they supplement (typically center lines) are in place.

477.63: Control of the Work Area

At the end of each working day, all equipment shall be moved to a location where it does not present a hazard to traffic. The pavement shall be cleaned by sweeping and the work area shall be reopened to traffic.

Pavement millings shall become the property of the Contractor and shall be removed and disposed of off-site.

COMPENSATION

477.80: Method of Measurement

Milled Rumble Strip (Type A), Milled Rumble Strip (Type C), and Milled Rumble Strip (Type D) will be measured by the total length of installed rumble strip. Milled Rumble Strip (Type B) will be measured by the total length of installed rumble strip excluding the designed gaps. Breaks at castings, bridge decks, intersections or other breaks will not be measured for payment for all types.

477.81: Basis of Payment

Payment for Milled Rumble Strip (Type A), Milled Rumble Strip (Type B), Milled Rumble Strip (Type C), and Milled Rumble Strip (Type D) will be made at the contract unit price per foot of rumble strips, complete in place. Such payment will be full compensation for furnishing all equipment and labor for satisfactorily performing the work including cleanup and disposal of excess materials.

477.82: Payment Items

Item number	Description	Unit
477.	Milled Rumble Strip (Type A)	Foot
477.1	Milled Rumble Strip (Type B)	Foot
477.2	Milled Rumble Strip (Type C)	Foot
477.3	Milled Rumble Strip (Type D)	Foot

SUBSECTION 482: SAWCUTTING

Subsection 482.80: Method of Measurement
Replace this subsection with the following:

Sawcutting, when included in the Contract as its own bid item, will be measured for payment by the foot along the cut line, regardless of depth.

SECTION 600: HIGHWAY GUARD, FENCES AND WALLS

SUBSECTION 628: IMPACT ATTENUATORS

Subsection 628.82: Payment Items
Replace this subsection with the following:

Item number	Description	Unit
628.302	Permanent Impact Attenuator, Non-Redirective, TL-2	Each
628.303	Permanent Impact Attenuator, Non-Redirective, TL-3	Each
628.304	Temporary Impact Attenuator, Non-Redirective, TL-2	Each
628.305	Temporary Impact Attenuator, Non-Redirective, TL-3	Each
628.312	Permanent Impact Attenuator, Redirective, TL-2	Each
628.313	Permanent Impact Attenuator, Redirective, TL-3	Each
628.314	Temporary Impact Attenuator, Redirective, TL-2	Each
628.315	Temporary Impact Attenuator, Redirective, TL-3	Each
628.322	Permanent Impact Attenuator, Low-Maintenance, TL-2	Each
628.323	Permanent Impact Attenuator, Low-Maintenance, TL-3	Each

SECTION 800: TRAFFIC CONTROL DEVICES

SUBSECTION 813: WIRING, GROUNDING AND SERVICE CONNECTIONS

Subsection 813.20: General
Replace this subsection with the following:

This work shall consist of furnishing and installing wire and cable of the type and size indicated for traffic signals and other traffic control devices, ITS systems, highway lighting and related electrical systems, equipment grounding systems, new ground electrodes or connections to existing ground electrodes, power pedestals, and all materials and equipment necessary to deliver power to such systems.

Service points shown on the plans are approximate only. The Contractor shall determine exact locations for both overhead and underground service access points. The Contractor shall determine riser elevations or connections/routing to manhole facilities from the serving utility, and arrange to complete the service connections.

All work under this Subsection shall comply with the MEC and the National Electrical Safety Code.

Subsection 813.41: Grounding and Bonding Conductions
Replace this subsection with the following:

Grounding and bonding conductors shall conform to M8.16.10: Type 10 Grounding and Bonding Conductors (Solid or Stranded, Insulated or Bare).

Subsection 813.42: Ground Rods
Replace this subsection with the following:

Ground rods shall consist of driven rod(s) conforming to M8.17.0: Ground Rod or other devices approved for the purpose.

Subsection 813.44: Power Pedestal
Add this subsection in numerical order:

A Power Pedestals shall consist of a side-of-post mounted lockable load center enclosure, a load center with circuit breakers, an exterior-mounted electrical meter, signal post and base, equipment bonding, ground rod(s) conforming to 813.42: Ground Rods, and a cement concrete foundation. The enclosure, lock, circuit breakers, signal post and base, and foundation shall all be included in the Shop Drawing submission.

The enclosure shall be rated to meet or exceed NEMA 3R and be suitable for post-mounting and shall be sized appropriately to house the load center. The enclosure shall be capable of being secured with an integrated locking mechanism or by a Contractor-supplied padlock; regardless of locking mechanism, it shall be operated with a #2 key.

The circuit breakers shall be designed for single-phase, 3-wire, 120/240 VAC. Circuit breakers shall provide a means to manually operate a circuit and/or automatically open a circuit that is in overload or short circuit conditions. All circuit breakers shall be UL listed and have CSA certification.

The enclosure shall be furnished with a meter socket installed. The meter socket shall be approved by the servicing electrical utility.

The signal post and base shall conform to M10.05.1: Signal Posts and Bases and the Plans. The Contractor shall supply a square aluminum base with a natural or anodized finish and a Schedule 80 aluminum post with a brushed or spun finish, unless otherwise indicated in the Plans.

The Contractor shall supply mounting equipment recommended by the enclosure manufacturer to side-mount the cabinet to the post.

Bonding for the Power Pedestal shall utilize a #8 AWG or larger ASTM-B3 wire.

The cement concrete foundation shall conform to the Plans and M4.02.0: Concrete Produced by Stationary and Truck Mixers, M4.03.0: Concrete Produced by Volumetric Mixers, M4.06.1: Conventional Concrete, M4.09.0: Precast, Prestressed, and Prefabricated Concrete Products, M4.11.0: Evaporation Reducing Materials, and M4.12.0: Curing Materials, as applicable.

Subsection 813.64: Power Pedestal
Add this subsection in numerical order:

No work shall commence until Shop Drawings have been approved.

The Power Pedestal Cabinet shall be mounted side-of-post to the Signal Post, per the manufacturer's recommendations. The Power Pedestal Cabinet should be installed directly below the meter socket, per the Plans. If dissimilar metals are present, they shall be electrically insulated to prevent galvanic corrosion.

The Contractor shall supply the appropriate type (single pole or double pole) and number of circuit breakers included within the Power Pedestal Cabinet to provide the recommended AC power to each device receiving power from the Cabinet. The circuit breakers shall be clearly labeled as to which device they are powering (e.g. RRFB-1, RRFB-2, Warning Beacon, Speed Feedback Sign, etc.).

The Power Pedestal shall be grounded and bonded per 813.61: Equipment Grounding and Bonding and 813.62: Grounding Electrodes.

Subsection 813.80.E: Power Pedestal
Add this subsection in numerical order:

Power Pedestals will be measured by the number of Power Pedestals each furnished and installed.

Subsection 813.81.E: Power Pedestal
Add this subsection in numerical order:

Power Pedestals will be paid for at the contract unit price for each installed in place. This includes all labor and materials required for a working system.

All costs associated with grounding and bonding of Power Pedestals shall be considered incidental to the item.

All costs associated with providing service connections to Power Pedestals shall be paid for under their respective pay items.

Subsection 813.82: Payment Items
Change the unit of measure for items 813.80 and 813.81 to Each and add the following pay item:

Subsection 815.82: Payment Items
Delete payment items 818.90 to 818.94, 819.39, 819.832, 819.52, 819.53, 819.60 to 819.64, 819.70, 819.71, 819.72, 819.800, 819.801, 819.802, 819.803,:819.810, 819.811, 819.820, 819.821, 819.850, 819.851, 819.852.

Add the following payment item:

813.90	Power Pedestal	Each

SUBSECTION 819: TRAFFIC SIGNAL DETECTION

Subsection 819: Traffic Signal Detection
Add this subsection:

DESCRIPTION

819.20: General

Work under this Subsection consists of furnishing and installing detection devices for vehicles, bicycles, pedestrians, and other road users.

MATERIALS

819.40: General

Materials shall meet the requirements specified in the following Subsections of Division III, Materials:

Material	Section
Vehicle Detection Systems	M10.08.0
Passive Stop Line Detectors	M10.08.1
Passive Advanced Detectors	M10.08.2
Pedestrian Detectors	M10.09.0
Pedestrian Pushbutton Assembly	M10.09.1
APS Pushbutton Assembly	M10.09.2

The Contractor shall furnish Vehicle Detection Systems (VDS) and Pedestrian Detectors that are listed on the QTCE.

Any software, firmware, cables, or adapters required to program, adjust, fine-tune, or monitor VDS or Pedestrian Detectors shall be provided by the Contractor. VDS and Pedestrian Detectors shall have the latest versions of software and/or firmware installed prior to inspection. Manufacturer updates to software and/or firmware shall be included at no cost for the life of the products.

819.40.A: Vehicle Detection Systems

A VDS shall consist of one or more Internet Protocol (IP) -based detector/sensor assemblies and a cabinet interface device that is installed in a Traffic Signal Controller Cabinet or similar device.

Stop Line VDS shall be capable of providing motor vehicle and bicycle detection at all locations shown on the Plans. The Contractor may furnish a VDS that utilizes a single detector/sensor or multiple, as long as all stop line motor vehicle and bicycle detection zones are encompassed and the traffic signal or other device utilizing the detection can operate per the Plans. All Passive Stop Line Detectors required to provide stop line detection at an intersection shall be included in the cost of a single Stop Line Vehicle Detection System.

If the Contractor furnishes a Stop Line VDS that does not utilize an integrated video monitoring system, a separate video monitoring system per 819.41: Video Monitoring System shall be furnished and installed at no additional cost.

Advanced VDS shall be capable of providing motor vehicle detection on a single approach, at the location shown on the Plans. The Contractor Shall furnish Passive Advanced Detectors that utilize, and are compatible with, the same interface device installed in the Traffic Signal Controller Cabinet, or similar device, as the Stop Line VDS.

All VDSs shall be furnished with manufacturer-supplied mounting hardware.

If multiple VDSs over multiple locations are supplied under a single contract, all components furnished by the Contractor shall be of the same make and model.

819.40.B: Pedestrian Detectors

Pedestrian Pushbutton Assembly and Accessible Pedestrian Signal (APS) Pushbutton Assembly shall both include a pushbutton, sign, housing, manufacturer-specified mounting hardware, and wiring. The Contractor shall review the Contract Documents to determine if one or more in-cabinet control units are required to meet the pedestrian detector type and operational requirements. In-cabinet control units shall be considered incidental to the cost of the item.

The Contractor shall provide a pushbutton housing that conforms to the shape of the pole it is mounted to or shall furnish and install a manufacturer-supplied saddle to provide a flush, secure fit, at no additional cost.

An APS Pushbutton Assembly shall include a pedestrian pushbutton sign that conforms to the Plans. If the sign is not integral to the housing, separate mounting equipment shall be furnished and installed by the Contractor. All costs associated with the sign and mounting equipment shall be considered incidental to the cost of the item.

819.41: Video Monitoring System

When required by 819.40.A: Vehicle Detection Systems, the Contractor shall furnish and install a Video Monitoring System. The Video Monitoring System shall consist of one or more IP-based 4K, 1080p, H.264 dome-type CCTV cameras; mounting hardware, including but not limited to: brackets, bands, straps, posts, plates, and pole mount adapters; power distribution and conditioning equipment including surge suppression; and all necessary cabling and wiring.

All equipment provided for the Video Monitoring System shall be commercial, off-the-shelf products. Custom equipment designed specifically for the Contract will not be accepted. All cabling and wiring shall be recommended by the manufacturer and rated for outdoor use. Any special wiring or connectors required by the manufacturer shall be identified in the Shop Drawings.

The Video Monitoring System shall conform to National Electrical Manufactures Association (NEMA) standards, Underwriters' Laboratory (UL), and Military Standards (MIL), as applicable. All components of the Video Monitoring System shall be new and still under production by the manufacturer. Obsolete, no longer produced, and/or no longer supported components will not be accepted.

The Video Monitoring System shall be capable of operating in temperatures ranging from -29°F to +165°F.

The camera shall meet or exceed the requirements found in Table 819.41-1:

Table 819.41-1: Minimum Camera Requirements

Feature	Requirement
Zoom Ratio	The minimum zoom ratio shall be 30x Optical and 12x Digital
Camera Type	The camera shall be an IP-type CCTV camera.
Auto Focus	The camera shall include auto focus with a selection for manual override of auto focus.
Lens Aperture Ratio	Typical: F/1.6 to F/4.7 (wide to telephoto)
On-Screen Direction	The CCTV camera shall display on-screen azimuth indications.
Privacy Zones	The CCTV camera shall be programmable to blank out up to 8, four-sided areas to electronically block portions of the camera's field of view from being

Feature	Requirement
	displayed. These privacy zones shall move and adjust sizing synchronously with camera movements and degree of lens zooming.
On-Screen Labels, Text and Titles	The CCTV camera shall display a minimum of 20 programmable characters for on-screen camera ID, preset position, sector, and alarm titles.
On-Screen Labels, Text and Title Positioning	The position of the on-screen text shall be adjustable to appear at selectable positions on the CCTV camera screen image.
Number of Pixels	The camera shall provide a minimum of 1280H x 720V effective pixels. The camera shall be capable of being configured to operate at all standard lower resolutions down to 320H x 180V effective pixels.
Image Sensor Size	The camera shall include an image sensor of 1/1.8 in., nominal.
Lens Focal Length	The camera shall include a zoom lens of 4.3 mm to 129 mm, minimum focal length.
Color and Black & White Image Selection	The camera shall have Color and Black & White video image display modes incorporating both automatic and manual override image mode selection. The camera shall transition automatically to a Black & White mode (when in automatic mode) when the luminance level reaches a user predefined threshold. At all times the camera shall provide a full motion video output at 30 frames per second.
Image Stabilization	The CCTV camera shall incorporate electronic image stabilization to reduce the effects of vibration and wind gusts on the displayed video image.
Automatic Iris	The camera shall include both automatic iris control and an override for manual iris adjustments.
Wide Dynamic Range	The CCTV camera's wide dynamic range shall be 120 dB.
CCTV Camera Optical Sensitivity	The camera's sensitivity shall be sufficient to provide a clear, usable color video image display with a scene illumination of ≤ 0.1 lux at an aperture of F1.6, nominal.
Power Input	The power input for the CCTV camera and dome shall be PoE+.
Alarms	No alarm contacts shall be wired.

The Contractor shall mount the camera at a location that optimizes line-of-sight for all approaches. The view of each approach shall have a clear line of sight, free from obstructions from trees, overhead wires, buildings, and/or other obstructions. If the Contractor is unable to provide a clear line of sight for all approaches to the satisfaction of the Engineer, a second camera, including mounting hardware, cabling, and wiring, shall be furnished and installed on a different traffic signal structure at no additional cost.

The Contractor shall be responsible for the following items prior to installation:

- Ensure that all components are assembled and factory-tested prior to delivery to the project site.
- Fully configure the camera settings, including but not limited to: camera resolution, camera address, default settings, and pre-set and home positions, per the direction of the Engineer.
- Coordinate with the Engineer to set the camera address number to provide unique identification that is compatible with the CCTV camera addressing schema utilized by the Department.

The Contractor shall deliver the camera(s) fully assembled to the project site.

The Contractor shall provide up to 3 hard copy sets of operating manuals, service manuals, and maintenance instructions for all components of the system. At the request of the Engineer, the number of copies may be reduced if the manuals are provided in .pdf file format.

819.42: Material Warranties

All components of Vehicle Detection Systems, including Video Monitoring Systems, and Pedestrian Detectors shall include a minimum two-year manufacturer's replacement warranty that will commence upon acceptance by the Engineer. The warranty shall cover any manufacturing defects of the products.

Construction Methods

819.60: General

The Contractor shall use discretion in installing the detectors/sensors at locations that optimize the performance of the VDS and to eliminate false calls. The Contractor shall notify the Engineer if the size or location of the detection zones differs from what is shown in the Plans. At the direction of the Engineer, the Contractor will be required to readjust the location of the detection zones and/or modify the detection channels if false calls are observed or the traffic signal system is not operating per the Plans due to the performance of the VDS; this work shall be considered incidental to the cost of the item.

The Contractor shall use manufacturer-specified mounting hardware for all detectors/sensors. If mounted to mast arms or strain poles, any addition weight or wind loading from the detector/sensor shall be accounted for in the structural calculations.

The Contractor shall install the cabinet interface device in the traffic signal controller cabinet. The cabinet interface device shall be connected to the Field Monitoring Unit (FMU) or an ethernet switch in the traffic signal controller cabinet. All communication between devices shall be IP-based. Use of external communications that are not routed through the FMU is prohibited.

The Contractor shall furnish and install low voltage power cabling surge protection equipment required for all data and power lines associated with VDS, Video Monitoring Systems, and/or Pedestrian Detection Systems entering the traffic signal controller cabinet.

The Contractor shall install the manufacturer-specified cable between the detectors/sensors to the cabinet interface device in the traffic signal controller cabinet via traffic signal structures, conduit, and/or pullboxes. This shall include all connectors, sealing tape, and incidental work to complete the connection(s). All equipment installation and wiring shall be installed in a neat and orderly manner and per the manufacturer's specifications.

The VDS shall be powered through one of the power outlets available on the FMU. The VDS shall be capable of being powered down and remotely restarted through remote control of the power outlet on the FMU.

Under the supervision of the Engineer, the Contractor shall install the VDS software that allows visual confirmation of the detection zones on Department computers.

The Contractor shall install Pedestrian Detectors at the location(s) and mounting height shown on the Plans.

The Contractor shall mount and orient the APS Pushbutton Assembly in a manner so that the vibrotactile arrow is aligned parallel to the crosswalk.

Prior to acceptance, the Contractor shall furnish all passwords for Vehicle Detection Systems and Pedestrian Detectors to the Engineer. The use of default passwords is prohibited.

819.61: Programming APS Pushbuttons

Each APS Pushbutton shall have an audible walk indication during the associated walk interval. The duration of the audible walk indication shall match the duration of the walk interval unless the pedestrian signal is programmed to rest in walk. If programmed to rest in walk, the audible walk indication shall be limited to 7 seconds in length but may be recalled by a subsequent button press during the walk interval.

The APS Pushbutton locator tone and audible walk indication shall be programmed to broadcast at volume 5 dBA louder than ambient sound, except when audible beaconing is provided in response to an extended pushbutton press. The broadcast volume shall be programmed to not exceed 100 dBA at 3 ft. from the emitter, regardless of ambient noise conditions.

The locator tone shall have a duration of 0.15 seconds or less and shall repeat at 1-second intervals.

The locator tone shall be active during all signal intervals, except for the following conditions:

- When the audible walk indication is being broadcast.
- If the signal is programmed to rest in walk, the locator tone shall resume 7 seconds after the start of the walk interval.
- The locator tone shall be disabled if the traffic control signal or pedestrian hybrid beacon is operating in an emergency or fault flashing mode.

The locator tone shall be active during the flashing yellow and alternating flashing red intervals of a pedestrian hybrid beacon phasing sequence.

Upon button press, the locator tone at that pushbutton shall be interrupted and a speech message of “Wait” shall be broadcast.

The normal status of the pilot light shall be dark. The pilot light shall illuminate upon button press and stay illuminated until the start of the walk interval, when it shall return to dark. If the associated pedestrian phase is set to pedestrian recall, the pilot light shall stay illuminated for all intervals except for the walk interval.

The audible walk indication shall an audible tone unless a speech message is called for in the Plans. The audible tone shall repeat at 8 to 10 ticks per second, in multiple frequencies, with the dominant component at 880 Hz.

If a speech message is used, the following shall apply:

- For exclusive pedestrian phases, during the walk interval the speech message shall be: “walk sign is on for all crossings.” This message shall be broadcast a single instance.
- *For concurrent pedestrian phases, during the walk interval the speech message shall be: “[STREET NAME]. Walk sign is on for [STREET NAME].” This message shall be broadcast a single instance.
- If the signal is programmed to rest in walk, the concurrent pedestrian speech message shall be repeated upon each subsequent button press.

*Note: See Plans for Street Name information.

The vibrotactile arrow shall vibrate during the walk interval.

The Contractor shall include a fault relay that will default to placing a constant pedestrian call from any pushbutton assembly that fails to communicate back to the in-cabinet control unit.

The Contractor shall connect the in-cabinet control unit to the Field Monitoring Unit (FMU) via an open ethernet port.

819.62: VDS Testing and Evaluation

After the VDS is installed, but prior to acceptance, the Contractor shall conduct an evaluation of the system in the presence of the Engineer. The purpose of the evaluation is to certify the system is operating per the requirements of M10.08.0: Vehicle Detection Systems, M10.08.1: Passive Stop Line Detectors, and M10.08.2: Passive Advanced Detectors, as applicable. The Contractor shall submit their testing and evaluation plan as a part of the Shop Drawing submittal.

The testing and evaluation shall take place for a minimum of 30 minutes under moderate live traffic conditions. Testing shall not be conducted during inclement weather.

If the Engineer determines that the system does not meet the operational requirements, the Contractor will be required to adjust the location, orientation, and/or number of detector/sensors. The Contractor may also adjust the location of the detection zones at this time. Upon completion of this work, the system shall be reevaluated in the presence of the Engineer. This process shall be repeated until the operational requirements are met.

All costs associated with testing and evaluation of the VDS, including the repositioning or addition of new materials, shall be considered incidental to the item.

Compensation

819.80: Method of Measurement

Stop Line Vehicle Detection Systems will be measured as each system furnished and installed.

Advanced Vehicle Detection Systems will be measured as each system furnished and installed.

Pedestrian Pushbuttons and APS Pushbuttons will be measured as each pushbutton furnished and installed.

819.81: Basis of Payment

Stop Line Vehicle Detection Systems will be paid for each system installed at an intersection. For the purposes of this work, an intersection shall be defined as all roadway, path, and/or trail approaches controlled by a single traffic signal controller. Where a Video Monitoring System is required per 819.40: General, it shall be included in the cost of Item 819.840.

Advanced Vehicle Detection System will be paid for each system installed on an intersection approach.

Pedestrian Pushbutton and APS Pushbutton will be paid for each pushbutton assembly installed. The pedestrian sign mounted directly above the pushbutton shall be considered incidental to the item.

The unit cost of each vehicle detection system or pushbutton item shall include all wiring, cabling, mounting hardware, software, firmware, video monitoring system (if required), testing, calibrating, Department Acceptance, training, and all other labor and materials required for the system(s) to operate per the Plans.

819.82: Payment Items

Item number	Description	Unit
819.840	Stop Line Vehicle Detection System	Each
819.845	Advanced Vehicle Detection System	Each
819.850	Pedestrian Pushbutton	Each
819.855	APS Pushbutton	Each

SUBSECTION 850: TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE OPERATIONS

Subsection 850.25: Arrow Board
Subsection 850.45: Arrow Board
Subsection 850.65: Arrow Board
Delete these subsections.

Subsection 850.80: Method of Measurement
Delete the 7th paragraph beginning with "Arrow Board will be measured …"

Subsection 850.81: Basis of Payment
Delete the 7th paragraph beginning with "Arrow Board will be paid for …"

Subsection 850.82: Payment Items
Revise description and unit of item 852. to Safety Signing for Traffic Management / Square Foot.
Delete item number 856.

SUBSECTION 856: CONNECTED WORK ZONE NOTIFICATION SYSTEM AND ASSOCIATED DEVICES

Subsection 856: Connected Work Zone Notification System and Associated Devices
Add this new subsection.

DESCRIPTION

856.20: General

The Connected Work Zone Notification System (CWZNS) is a system of field devices that transmit real-time location-based data about work zones. CWZNS field device data is provided in a Work Zone Data Exchange (WZDx) Device Feed in accordance with the United States Department of Transportation (USDOT) WZDx Specification. The Device Feed is consumed by the MassDOT Work Zone Manager (WZM) application.

The Contractor shall be responsible for furnishing, installing, repositioning, operating, maintaining, and removing these CWZNS devices.

MATERIALS

856.40: General

Materials shall meet the requirements specified in the following Subsections of Division III, Materials:

Material	Section
Connected Work Zone Notification System Devices	M10.18.0
Location Marker	M10.18.1
Connected Arrow Board	M10.18.2

End Location Markers shall conform to M10.18.1: Location Marker and include power and communication status lights and an on/off switch.

856.41: Arrow Board

Arrow Boards shall consist of a matrix of yellow elements that may be illuminated in flashing or sequential patterns, on a non-reflective, black background. The light output from the Arrow Board shall meet the minimum legibility distance, per the MUTCD. The elements shall be capable of at least 50% dimming from full brilliance to avoid nighttime glare. Arrow Boards that are continuously operational in both daylight and nighttime conditions shall automatically adjust the light output based upon ambient light conditions.

The mounting height of the Arrow Board, when in operation, shall be per the Plans.

The minimum dimensions and number of elements for Arrow Boards shall be per Table 856.41-1.

Table 856.41-1: Arrow Board Dimensions and Elements

Item Numbers	MUTCD Type	Minimum Dimensions (width by height)	Minimum Number of Elements
856.060, 856.160	B	60 in. by 30 in.	13
856.096, 856.196	C	96 in. by 48 in.	15

Arrow Boards shall be capable of the following operating modes, per the MUTCD:

- Four Corners Flashing Caution
- Alternating Diamond Caution
- Flashing Arrow (left or right)
- Sequential Chevron (left or right)
- Flashing Double Arrow

Arrow Boards that are categorized as "Connected Arrow Boards" (Items 856.160 and 856.196) shall meet the requirements of M10.18.2: Connected Arrow Board in addition to the requirements of an Arrow Board described in this Subsection.

856.42: Shop Drawings

Within 30 days of the Notice to Proceed, the Contractor shall submit to the Engineer for review and approval cut sheets for each model of CWZNS device to be used. The cut sheets shall document device specifications, including details of how the CWZNS device will communicate. Work that requires the use of CWZNS devices shall not commence until the submission has been approved.

CONSTRUCTION METHODS

856.60: General

At least 15 days prior to deploying CWZNS devices, the Contractor shall visit the site to verify cellular coverage. If the devices the Contractor plans to deploy do not have coverage, the Contractor shall swap out the cellular modem, SIM card, or both to a carrier that provides coverage. If no adequate cellular coverage exists from 4G LTE or 5G providers, the Contractor shall immediately notify the Engineer.

The Contractor shall install CWZNS devices at the locations shown on the Plans.

Per the WZDx Specification Device Feed, an End Location Marker shall have a single MarkedLocation with the "type" property as "work-zone-end".

The Contractor shall install and power on the End Location Marker coinciding with the deployment of the temporary traffic control setup that calls for its use. The Contractor shall power down and remove the Location Marker at the conclusion of the removal of the temporary traffic control setup. If the location of the work moves during a work shift, the Contractor shall power down the Location Marker, relocate it, and then power it back on.

The operating mode for the Arrow Board or Connected Arrow Board shall be per the Plans. When activated, the minimum element on-time shall be 50% for the flashing mode, with equal intervals of 25% for each sequential phase. The flashing rate shall be not less than 25 or more than 40 flashes per minute.

If a Connected Arrow Board is being used to transmit its location without utilizing other arrow board functions, such as operating a Flashing Arrow, the arrow board shall remain dark and removed from the roadway or protected from approaching traffic while the data is being transmitted.

The Contractor shall be responsible for remediating any CWZNS device that is not operating as specified, at no additional cost to the Department.

CWZNS devices that are lost, stolen, vandalized, damaged, destroyed, or deemed unacceptable while their use is required on the project shall be replaced by the Contractor at no additional cost to the Department.

COMPENSATION

856.80: Method of Measurement

Arrow Boards and Connected Arrow Boards will be measured by the Day. Each period of up to 24 hours during which an Arrow Board or Connected Arrow Board is in use will be measured as one day, regardless of the number of times that the unit is positioned, repositioned, removed, or returned to service.

End Location Markers will be measured by the Day. Each period of up to 24 hours during which a End Location Marker is in use will be measured as one day, regardless of the number of times that the unit is positioned, repositioned, removed, or returned to service.

856.81: Basis of Payment

Arrow Boards and Connected Arrow Boards will be paid for at the contract unit price per day which shall include full compensation for labor and materials, positioning, repositioning, and removing or returning to service.

End Location Markers will be paid for at the contract unit price per day which shall include full compensation for labor and materials, positioning, repositioning, and removing or returning to service.

If an End Location Marker is attached to another traffic control device that is not otherwise called for in the Plans or Specifications, that ancillary device shall be considered incidental to the cost of the End Location Marker.

Licenses, fees, communication costs, power costs, and access to real-time and recorded data associated with the Device Feed for CWZNS devices shall be considered incidental to the cost of the item.

The Department will not pay for CWZNS devices that fail to operate as specified.

856.82: Payment Items

Item number	Description	Unit
856.060	Arrow Board (Type B)	Day
856.096	Arrow Board (Type C)	Day
856.160	Connected Arrow Board (Type B)	Day
856.196	Connected Arrow Board (Type C)	Day
856.201	End Location Marker	Day

SECTION 900: STRUCTURES

SUBSECTION 901: CEMENT CONCRETE

Subsection 901.20: Materials

Delete Asphaltic Materials – M3, Preformed Bituminous Fiber Joint Filler – M3.05.3 and add the following in M number sequence:

Preformed Expansion Joint Filler	M9.14.0

SUBSECTION 983: REVETMENT

Subsection 983.40: General
Delete Preformed Bituminous Fiber Joint Filler – M3.05.3 and add the following in M number sequence:

Preformed Expansion Joint Filler	M9.14.0

DIVISION III

MATERIALS SPECIFICATIONS

SECTION M3: ASPHALTIC MATERIALS

Subsection M3.05.5: Preformed Bituminous Joint Filler for Concrete
Delete this subsection.

SECTION M9: MISCELLANEOUS MATERIALS

Subsection M9.14.0: Preformed Expansion Joint Filler
Replace this subsection with the following:

Preformed expansion joint filler for concrete applications and structural construction shall meet the requirements specified herein. The Contractor shall provide certified test data which documents compliance with the required physical properties. The certified test data shall be submitted to the Engineer for approval.

Table M9.14.0-1: Types of Preformed Expansion Joint Filler

Specification	Type and Description
AASHTO M 153	Type I – Sponge Rubber Type II – Cork Type III – Self-Expanding Cork Type IV – Polyurethane-Bonded Recycled Rubber
AASHTO M 213	Type I – Asphalt-Saturated Cellulosic Fiber Type II – Asphalt Binder-Cork with Asphalt-Saturated or Glass Fiber Felt Type III – Polyurethane-Bonded Recycled Rubber
ASTM D1752	Type IV – Recycled PVC
ASTM D7174	Type I – Closed-Cell Polyethylene or Blended Polyethylene Foam
ASTM D8139	Type I – Closed-Cell Polypropylene Foam

Subsection M9.14.2: Closed Cell Foam Joint Filler
Delete this subsection:

M10.03.1: Field Monitoring Unit

All Field Monitoring Units (FMU) shall be compatible with the MassDOT Critical Operations Multi-jurisdictional Modular System (MCOMMS), cloud-based management system.

Subsection M9.14.2: Closed Cell Foam Joint Filler
Delete this subsection:

SECTION M10: TRAFFIC CONTROL DEVICES

Subsection M10.03.1: Field Monitoring Unit
Add these new subsections:

M10.03.1: Field Monitoring Unit

All Field Monitoring Units (FMU) shall be compatible with the MassDOT Critical Operations Multi-jurisdictional Modular System (MCOMMS), cloud-based management system.

FMUs shall be capable of operating independently from the brand of traffic signal controller, vehicle and pedestrian detection systems, battery backup system (BBS), and any other Ethernet-based, web accessible device present in the traffic signal controller cabinet.

M10.03.1.A: Hardware

The FMU shall communicate via an Ethernet port with an RJ45 connector and have an integrated Ethernet switch with a minimum of four ports.

The FMU shall be powered via standard 120 VAC input power. The FMU shall include an integrated battery and battery charging/monitoring circuit that will allow the FMU to fully function even if all other electrical service to the cabinet has been interrupted. The battery shall continue to supply the FMU with power for a minimum of 5 hours on a single charge.

The FMU shall have an integrated GPS that will allow for automated telemetry without additional configuration. The GPS shall be capable of providing a time sync pulse to the internal clock of a connected traffic signal controller. The FMU shall utilize the integrated GPS to geolocate itself on a map via the FMU management software.

M10.03.1.B: Software

The configuration of the FMU shall be accomplished by accessing FMU management software via an internet browser. It shall be possible to configure the FMU without any special software.

The FMU shall operate without requiring a static IP address. The only configuration required at the FMU is to enter the URL to the host of the FMU management software.

The FMU shall utilize HTTPS protocols and XML data structure for communications with the FMU management software. The data shall be scalable for future expansion; proprietary protocols shall not be used.

M10.03.1.C: Wireless Connectivity

The FMU shall be supplied with an internal 4G LTE cellular modem.

The modem shall support future upgrades to 5G service, when available, and shall be compatible with SIM cards from multiple cellular carriers.

M10.03.1.D: Remote Access

Remote access to any traffic signal cabinet component that has a web interface via the FMU shall not require the end user to create a separate Virtual Private Network (VPN) connection.

Subsection M10.08.0: Vehicle Detection Systems
Subsection M10.08.0: Vehicle Detection Systems
Subsection M10.08.0: Vehicle Detection Systems
Add theses new subsections:

M10.08.0: Vehicle Detection Systems

Vehicle Detection Systems (VDS) shall be capable of detecting the presence of all motor vehicle types and bicycles in designated areas and sending corresponding detector outputs to a traffic signal controller.

All in-cabinet components of VDS shall be compatible with the following standards:

- ATCC 5301 v02
- ATC 5201 v06
- NEMA TS2 environmental standards

Through an ethernet-based connection to the detection module and/or cabinet interface device in the field or through the internal network of the traffic signal controller cabinet, the VDS shall support remote management of motor vehicle and bicycle detection configurations and access to data including:

- The number, location, and size of detection zones.
- Configuration of the detector channel and assigned phase for each zone.
- Configuration of detection zones for signal performance measurement data collection.
- The ability to add and remove users.
- Signal performance data:
  - Monitoring and recording the status of the phase and detector channels from the traffic signal controller through the SIU bus at a frequency of no less than 10 times per second.
  - Estimation of the speed of vehicles at defined, user-configurable points, such as entering or exiting a detection zone.
  - Retrieval of the signal performance data through an http-based Application Programming Interface (API), or equivalent process, in .xml, .json, or .csv format.
  - The data shall be available in a per vehicle format, be viewable in real time, and store at least 168 hours of data locally on the device.

VDS shall be capable of supporting user-based restrictions to limit functionality, including:

- The ability to make changes to the VDS settings.
- The ability to view imagery or digital video streams.
- The ability to view and download signal performance data.

VDS shall be capable of automatically determining if the system's ability to accurately detect vehicles and shall default to a constant call state if this system error is detected.

VDS shall be capable of classifying vehicles based upon length and/or number of axles.

VDS shall be capable of performing all detection, classification, and data collection functions in the absence of an internet connection.

VDS shall be capable of providing remote access to the latest images or digital video stream of all IP video units through either an HTTP request or through a Real Time Streaming Protocol compatible with RFC2326 standards. VDS that do not utilize video shall be able to display the current state of the vehicle detection zones and approximate vehicle locations in a digital twin model of the intersection.

M10.08.1: Passive Stop Line Detectors

Passive Stop Line Detectors shall demonstrate a reliability of 99% or greater for vehicle detection functions.

Passive Stop Line Detectors shall be able to track and classify turning movements for all motor vehicle types and bicycles and shall demonstrate an accuracy of 95% or greater for turning movement counts.

M10.08.2: Passive Advanced Detectors

Passive Advanced Detectors shall be capable of detecting all motor vehicle types at a minimum distance of 600 ft upstream of the stop line.

Subsection M10.09.0: Pedestrian Detectors
Subsection M10.09.1: Pedestrian Pushbutton Assembly
Subsection M10.09.2: APS Pushbutton Assembly
Add theses new subsections:

M10.09.0: Pedestrian Detectors

Pedestrian Detectors shall be capable of detecting the presence of pedestrians and placing a corresponding call for a phase in a traffic signal controller or similar device.

Pedestrian Detectors may be pushbuttons or passive detection devices.

Components of Pedestrian Detectors shall meet NEMA TS2 compliance for temperature and humidity, mechanical shock and vibration, transient voltage protection, transient suppression, and electrical reliability.

If Pedestrian Detectors include an in-cabinet control unit, it shall meet the following requirements:

- Operate on a cabinet-supplied 120 VAC power source.
- Include labelled LED indicators for each channel operation.
- Include a 10/100BaseT, RJ45 ethernet connector port.
- Capable of communication with the Pedestrian Detectors to allow for remote programming and firmware updates via the ethernet connection.
- Capable of supporting a minimum of 4 pedestrian detectors per NEMA pedestrian phase and up to 16 pushbuttons.
- Will automatically reset upon loss of internal communication.

M10.09.1: Pedestrian Pushbutton Assembly

A Pedestrian Pushbutton Assembly shall consist of a pushbutton, a sign, and a housing to mount those devices to a post.

The pushbutton shall be a minimum of 2 in. in diameter and the force to activate it shall be no greater than 5 lbs. The pushbutton must be weather-tight and tamper-resistant.

The pushbutton shall meet one of the following criteria:

- A normally open, mechanical phenolic enclosed, positive-acting, spring-loaded, audible (i.e., click) snap-action switch with single pole, single throw contacts; or
- A piezo-driven solid state switch rated for a minimum of 50 V, a minimum of 20 million cycles, and capable of providing an audible indication of actuation.

The pushbutton shall have an operating voltage range of 12 to 36 VDC.

The housing shall be yellow.

Housings that include an integral sign mount for the pedestrian pushbutton sign shall be capable of mounting a 9 in. by 12 in. or 9 in. by 15 in. sign (width by height).

M10.09.2: APS Pushbutton Assembly

An APS Pushbutton Assembly shall meet all of the requirements of M10.09.1: Pedestrian Pushbutton Assembly, and the following.

The pushbutton shall have a vibrotactile arrow. The arrow shall have high visual contrast (light on dark or dark on light).

APS Pushbutton Assembly shall be capable of the following:

- Emitting a locator tone.
- Providing two types of audible walk indications: an audible tone in multiple frequencies and a speech message. The type of audible walk indication will be programmed by Contractor per the Plans.
- Emitting sound via one or more speakers that automatically adjust to ambient noise and shall also be capable of being capped at a preprogrammed level.
- Providing three functions as a result of an extended pushbutton press: increased crossing time, audible beaconing, and speech pushbutton information. The function of the extended pushbutton press will be programmed by the Contractor per the Plans.

APS Pushbutton Assembly shall include a latching red LED pilot light.

Subsection M10.18.: Connected Work Zone Notification System Devices
Add this new subsection.

M10.18.0: Connected Work Zone Notification System Devices

Connected Work Zone Notification System (CWZNS) devices shall include the following:

- An internal 4G LTE or 5G cellular modem. The modem shall be compatible with SIM cards from multiple cellular carriers, or the device shall be capable of using a cellular modem from more than one cellular carrier.
- An integrated GPS that will allow for automated telemetry without additional configuration.
- A self-contained power source that can be recharged without manual intervention. The power source shall enable uninterrupted operation of the CWZNS field device.
- Mounting and supporting hardware and wiring necessary to complete a working system.

CWZNS devices shall be capable of operating in temperatures ranging from -40°F to +122°F with no degradation in operation due to rain, fog, snow, ice, darkness, dust, or road debris.

CWZNS devices shall be physically and digitally secured to prevent unauthorized access.

When powered on, real-time data from CWZNS devices shall be provided in a USDOT Work Zone Data Exchange (WZDx) Specification Device Feed version 4.2. The Device Feed shall then be able to be consumed by the MassDOT Work Zone Manager (WZM) application. The Device Feed shall meet the following requirements:

- Each manufacturer of CWZNS field devices and Smart Work Zone (SWZ) field devices shall provide a single statewide Device Feed (a single URL) that consists of that manufacturer's field devices that are used by or under the direction of the Department.
- The Device Feed shall be made available via an HTTP GET request. The response shall be the WZDx Device Feed JSON object without a wrapper or paging.
- The Device Feed shall be public or use "Basic" HTTP Authentication.
- The Device Feed shall be provided over HTTPS.
- The Device Feed shall reflect changes in CWZNS field device status (e.g., display changed or device moved) no later than 60 seconds after they occur.
- For each CWZNS field device, the "update date" property shall be no older than 60 minutes, except when it has stopped communicating or is otherwise in error.
- The "id" property of each CWZNS field device feature in the Device Feed shall stay the same for the duration of the Contract and shall be a Universally Unique IDentifier (UUID) to guarantee uniqueness between feeds and over time.

M10.18.1: Location Marker

Location Markers shall meet the requirements of M10.18.0: Connected Work Zone Notification System Devices.

Location Markers may be standalone devices or an attachment to a channelizing device. Either type shall be certified to comply with the relevant minimum TL-3 testing requirements of the *Manual on Assessing Safety Hardware*.

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END OF SUPPLEMENTAL SPECIFICATIONS

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DOCUMENT 00718

SPECIAL PROVISION FOR PARTICIPATION BY MINORITY OR WOMEN'S BUSINESS ENTERPRISES AND SERVICE- DISABLED VETERAN- OWNED BUSINESS ENTERPRISES

(Implementing Chapter 102, Section 24 and
Chapter 273, Section 124, of the Acts of 1994 and Chapter 56, Sections 1 to 5 of the Acts of 2010
and subsequent Acts)
Revised: September 27, 2021

I. PARTICIPATION

M/WBE PARTICIPATION GOAL
On this Contract, the Massachusetts Department of Transportation (MassDOT) has established a goal for participation by Minority or Women Business Enterprise(s) (M/WBE). One half of the goal shall be met in the form of contractor activity. This goal shall remain in effect throughout the life of the Contract.

☒ Design-Bid-Build Projects: M/WBE Participation Goal **6 %**
(*One half of this goal shall be met in the form of Subcontractor construction activity*)

☐ Design-Build Projects: M/WBE Design Participation Goal **___%** and M/WBE Construction Participation Goal **___%**
(One half of the Construction Goal shall be met in the form of Subcontractor construction activity)

SDVOBE PARTICIPATION BENCHMARK
On this Contract, the Massachusetts Department of Transportation (MassDOT) has established a goal for participation by Service- Disabled Veteran- Owned Business Enterprise(s) (SDVOBE). This goal shall remain in effect throughout the life of the Contract.

☐ Design-Bid-Build Projects: SDVOBE Participation Goal **____%**

☐ Design-Build Projects: SDVOBE Design Participation Goal **___%** and SDVOBE Construction Participation Goal **___%**

II. POLICY

It is the policy of the MassDOT that Minority, Women Business Enterprises (M/WBEs) and Service- Disabled Veteran- Owned Business Enterprises (SDVOBEs) have equal opportunity to receive and participate in the performance of its state funded Contracts.

III. M/WBE and SDVOBE OBLIGATION

The Contractor agrees to take all necessary and reasonable steps to ensure that MBE, WBE, and SDVOBEs have the maximum opportunity to compete for, and to perform, Department Contracts.

IV. FAILURE TO COMPLY WITH M/WBE OR SDVOBE REQUIREMENTS

All Contractors and Subcontractors are hereby advised that failure to carry out the requirements of these Provisions constitutes a breach of Contract which may result in termination of the Contract, a determination that the Contractor or Subcontractor be barred from bidding on Department Contracts for up to three (3) years, or any other remedy as the Department may impose under Section XIV of these Special Provisions.

V. REQUIRED SUBCONTRACT PROVISIONS

The Prime Contractor shall include the Provisions of Sections II, III, and IV above in every subcontract making those provisions binding on each subcontractor, supplier, manufacturer, consultant or service provider.

VI. DEFINITIONS

For the purpose of these Special Provisions, the terms listed below are defined as follows:

Minority Business Enterprise or MBE means any individual, business organization, or non-profit corporation certified as a MBE by the Supplier Diversity Office (SDO), formerly known as the State Office of Minority and Women Business Assistance (SOMWBA), or by the Department for the purposes of a particular bid or proposal to be submitted to the Department.

Women Business Enterprise or WBE means any individual, business or organization, or non-profit corporation certified as a WBE by SDO, or by the Department for the purposes of a particular bid or proposal to be submitted to the Department.

Service- Disabled Veterans- Owned Businesses or SDVOBE means a business not less than 51 percent of which is owned by one or more service- disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and the management and daily business operations of which are controlled by one or more service- disabled veterans or, in the case of a veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.

"Contractor activity" means any work, including but not limited to, construction, demolition, renovation, survey, test boring services, or maintenance work performed under the Contract.

"Approved Joint Venture" means a joint venture between M/WBEs and non-M/WBEs, or SDVOBEs and non-SDVOBEs, which has been established for the purpose of participation on a particular contract, where:

1. The M/WBE or SDVOBE partner(s) shares in the ownership, control, management responsibilities, risks and profits of the joint venture; and

2. The Joint Venture has been approved by the Department for M/WBE or SDVOBE participation on the particular contract.

"Equipment Rental Firm" means a firm that owns equipment and assumes actual and contractual responsibility to rent said equipment to perform a useful function of the work of the contract consistent with normal industry practice.

"Material Supplier" means a vendor engaged in sales to the highway construction industry from an established place of business or source of supply, which:

(a) Manufactures goods from raw materials or substantially alters them before resale, or

(b) Provides and maintains a storage facility for materials used in the work, consistent with normal industry practice.

“Department” means the Massachusetts Department of Transportation (MassDOT).

"SDO" means the Massachusetts Supplier Diversity Office.

VII. ELIGIBILITY of M/WBEs

Only firms, *OTHER THAN THE PRIME CONTRACTOR*, which have been certified by SDO and/or the Department as eligible to participate on state funded contracts as MBEs or WBEs may be used on this contract for credit toward the toward the M/WBE participation goal.

1. SDO Directory of Certified M/WBEs: The Supplier Diversity Office publishes a Directory of certified MBE and WBEs. This Directory can be obtained from SDO at https://www.sdo.osd.state.ma.us/. This site lists those firms which have been certified as minority owned (MBEs) or women owned (WBEs) in accordance with the criteria of 425 CMR 2.00 et seq to participate as M/WBEs on state funded contracts. It also lists the kinds of work in which each firm engages but does not constitute an endorsement of the quality or performance of any business and does not represent Department subcontractor approval.

2. Application for Certification by the Department for a Particular Project: A firm which has (1) submitted a fully completed M/WBE application to SDO at least 30 days previously, (2) has provided in a timely manner, any additional information which may have been requested by SDO, and (3) can provide evidence, satisfactory to the Department, of a bidder's conditional commitment to subcontract with the firm, if certified, may apply directly to the MassDOT Office of Civil Rights to be certified for participation on the particular contract.

3. Joint Venture Approval: To obtain recognition as an approved joint venture between M/WBEs and non-/M/WBEs, the Joint Venture must provide to the MassDOT Office of Civil Rights, at least 14 business days before the bid opening date, the Joint Venture Affidavit Document B00847, and a copy of the Joint Venture Agreement, which shall include a detailed breakdown of the following:

   (a) Capital participation by the M/WBE,

   (b) Specific equipment to be provided to the Joint Venture by the M/WBE,

   (c) Specific responsibilities of the M/WBE in the management of the Joint Venture,

   (d) Workforce and specific skills to be provided to the Joint Venture by the M/WBE, and

   (e) Percentage distribution to the M/WBE of the projected profit or loss incurred by the Joint Venture.

   (f) The Joint Venture shall provide all such additional information as may be requested by the Department for the purpose of determining joint venture eligibility.

VIII. ELIGIBILITY of SDVOBEs

Only firms, *OTHER THAN THE PRIME CONTRACTOR*, which have demonstrated that they are listed as a service-disabled veteran- owned small businesses within the VetBiz database may be used on this contract for credit toward the SDVOBE participation goal.

1. VetBiz Database: The website, located at www.VetBiz.gov, listing verified service- disabled veteran- owned businesses.

2. Joint Venture Approval: To obtain recognition as an approved joint venture between SDVOBEs and non-/SDVOBEs, the joint venture must provide to the MassDOT Office of Civil Rights, at least 14 business days before the bid opening date, an application for joint venture participation approval, and a copy of the Joint Venture Agreement, which shall include a detailed breakdown of the following:

   (a) Capital participation by the SDVOBE,

   (b) Specific equipment to be provided to the joint venture by the SDVOBE,

   (c) Specific responsibilities of the SDVOBE in the management of the Joint Venture,

   (d) Workforce and specific skills to be provided to the joint venture by the SDVOBE, and

(e) Percentage distribution to the SDVOBE of the projected profit or loss incurred by the Joint Venture.

(f) The Joint Venture shall provide all such additional information as may be requested by the Department for the purpose of determining joint venture eligibility.

IX. COUNTING M/WBE PARTICIPATION AND SDVOBE BENCHMARKS TOWARDS M/WBE AND SDVOBE GOALS

In order for M/WBE participation and SDVOBE benchmarks to count toward the Contract goal, the M/WBE and SDVOBE must have independently managed, supervised and performed the Contract work with its own workforce, equipment and resources. M/WBE and SDVOBE participation which fulfills these requirements shall be counted toward meeting the M/WBE and SDVOBE goals in accordance with the following rules:

1 If a firm has been determined to be an eligible MBE, WBE or SDVOBE, the total dollar value of the contract performed by the M/WBE or SDVOBE is counted toward the applicable goal as follows:

a. Except as provided below, in Section IX (1)(g), work performed by a M/WBE or a SDVOBE Prime Contractor shall not be counted toward the M/WBE or SDVOBE goal, and all Prime Contractors, including M/WBE or SDVOBE Prime Contractors, must comply with the M/WBE and SDVOBE requirements of this Contract.

b. For a M/WBE or SDVOBE material supplier, sixty percent (60%) of the amount to be paid for materials and supplies required under this Contract shall be credited toward the goal.

c. For a M/WBE or SDVOBE who provides a bonafide service such as professional, technical, consultant or managerial services and assistance in the procurement of essential personnel, facilities, equipment, materials, or supplies required for performance of the contract, reasonable fees or commissions charged for the service shall be listed, but the cost of items themselves shall not be credited.

d. For a M/WBE or SDVOBE hauler, trucker, or delivery service, which is not also the manufacturer of or a regular dealer in the materials and supplies, reasonable fees charged for delivery of materials and supplies required on the job site shall be credited; the cost of the materials and supplies themselves shall not be credited.

e. For a M/WBE or SDVOBE who provides any bonds or insurance specifically required for the performance of the contract, reasonable fees or commissions charged for such service shall be listed, but the face amount or actual premium paid for the bond or insurance shall not be credited.

f. The Department shall determine if the fees or commissions listed in accordance with paragraphs (c), (d), and (e) are not excessive as compared with fees or commissions customarily allowed for similar services.

g. That portion of the contract total dollar value equal to the percentage of ownership and control of the M/WBE partner(s) or SDVOBE partner(s) in an approved Joint Venture shall be counted toward the Contract goal, except that credit for M/WBE and SDVOBE participation in an approved Prime Joint Venture shall not exceed one half of the Contract goal.

X. JOINT CHECK POLICY

1. MassDOT recognizes that the use of joint checks may be a business practice required by material suppliers and vendors in the construction industry. A joint check is a two-party check issued by a/the Prime Contractor to a M/WBE or SDVOBE third party such as a regular dealer of material or supplies. The Prime Contractor issues the check as payor to the M/WBE or SDVOBE and the third party jointly as payees to guarantee payment to the third party for materials or supplies obtained or to be used by the M/WBE or SDVOBE. MassDOT has established criteria to ensure that M/WBEs or SDVOBEs are in fact performing a commercially useful function ("CUF") while using a joint check arrangement. Contractors and M/WBEs or SDVOBEs must meet and conform to these conditions and criteria governing the use of joint checks.

2. In the event that a Contractor, M/WBE or SDVOBE Subcontractor desires to a use joint check, MassDOT will require prior notice and will closely monitor the arrangement for compliance. MassDOT may allow a joint check arrangement and give credit to a Contractor for use of the M/WBE or SDVOBE where one or more of the following conditions exist:

   - The use of a joint check is in fact required by this type of vendor or supplier as a standard industry practice that applies to all Contractors (M/WBEs, SDVOBE and non-M/WBEs or non-SDVOBEs); or is required by a specific vendor or supplier;

   - Payment for supplies or materials would be delayed for an unreasonably extended period without the joint check arrangement;

   - The M/WBE or SDVOBE (or any of its Subcontractors) has a pattern or history of not paying a vendor or supplier within a reasonable time or has not established enough of a credit history with the supplier or vendor; and/or

   - The presence of severe adverse economic conditions, where credit resources may be limited and such practices may be necessary or required to effect timely payments.

3. Other factors MassDOT may consider:

   - Whether there is a requirement by the Prime Contractor that a M/WBE or SDVOBE should use a specific vendor or supplier to meet their Subcontractor specifications;

   - Whether there is a requirement that a M/WBE or SDVOBE use the Prime Contractor's negotiated price;

   - The independence of the M/WBE or SDVOBE;

   - Whether approval has been sought prior to use of a joint check arrangement; and

   - Whether any approved joint check arrangement has exceeded a reasonable period of use;

   - The operation of the joint check arrangement; and

   - Whether the M/WBE or SDVOBE has made an effort to establish alternate arrangements for following periods (i.e., the M/WBE or SDVOBE must show it can, or has, or why it has not, established or increased a credit line with the vendor or supplier).

Even with the use of a Joint Check, both the Contractor and M/WBE or SDVOBE remain responsible for compliance with all other elements of the Special Provisions, and must still be able to prove that a commercially useful function is being performed for the Contractor.

XI. JOINT CHECK PROCEDURES

- The M/WBE or SDVOBE advises its General or Prime Contractor that it will have to use a Joint Check and provide proof of such requirement.
- The General or the Prime Contractor submits a request for approval to MassDOT, using MassDOT's approved Joint Check Request form (Document B00846) and by notification on the M/WBE Letter of Intent (Document B00843) or SDVOBE Letter of Intent (Document B00845), and any other relevant documents. Requests that are not initiated during the bid process should be made in writing and comply with the procedure.
- The Contractor and M/WBE or SDVOBE must have:
  (a) a written agreement with the material supplier/vendor;
  (b) applied for credit with the subject material supplier and has supplied the vendor's response;

(c) shown that it will place all orders to the subject material supplier/vendor;
(d) made and retains all decision-making responsibilities concerning the materials; and
(e) provided a Joint Check Agreement that is acceptable to MassDOT;

- The MassDOT Office of Civil Rights will review the request and render a decision as part of the approval process for M/WBE or SDVOBE Schedules and Letters of Intent.
- Review and Approval will be project specific and relevant documents will be made part of the Project Contract file.
- Payments should be made in the name of both the M/WBE or SDVOBE and vendor or supplier. Payments should be issued and signed by the Contractor as only the guarantor for prompt payment of purchases to the vendor or supplier. The payment to the vendor or supplier should be handled by the M/WBE or SDVOBE (i.e. if possible, funds or the joint check should be processed by the M/WBE or SDVOBE and sent by the M/WBE or SDVOBE to the vendor or supplier).
- MassDOT may request copies of cancelled checks (front and back) and transmittal information to verify any payments made to the M/WBE or SDVOBE and vendor or supplier.
- MassDOT may request other information and documents, and may ask questions of the Contractor, Subcontractor and vendor or supplier prior to, during, and after the project performance to ascertain whether the Subcontractor is performing a commercially useful function and all parties are complying with M/WBE or SDVOBE Program policies and procedures as part of the Subcontractor approval process.

XII. AWARD DOCUMENTATION AND PROCEDURES

1. The two lowest bidders/the two bidders with the lowest price per quality score point, including any M/WBE bidder or SDVOBE bidder, shall submit, by the close of business on the third business day after the bid opening, a completed Schedule of M/WBE and SDVOBE participation, in the form attached, which shall list:

   a. The full company name, address and telephone number of each M/WBE or SDVOBE with whom the bidder intends to make a commitment;

   b. The Contract item(s), by number(s) and quantity(ies), if applicable, or specific description of other business activity to be performed by each M/WBE or SDVOBE as set forth in the Letters of Intent. The bidder shall list only firms which have the capacity to perform, manage and supervise the work proposed in accordance with the requirements of Section XII of these Special Provisions.

   c. The total dollar amount to be paid to each M/WBE or SDVOBE. (Bidders are cautioned that at least one half of the participation goal must be met with Contract work.)

   d. The total dollar amount to be paid to each M/WBE or SDVOBE which is eligible for credit toward the M/WBE or SDVOBE goal under the crediting rules set out in Section IX.

   e. The total creditable M/WBE or SDVOBE participation as a percentage of the total bid price.

2. All firms listed on the Schedule must be currently certified.

3. The two lowest bidders/the two bidders with the lowest price per quality score point shall submit with their Schedules of Participation, fully completed, signed Letters of Intent from each of the M/WBEs or SDVOBEs listed on the Schedule. The Letters of Intent shall be in the form attached and shall identify specifically the contract activity the M/WBE or SDVOBE proposes to perform, expressed as contract item number, if applicable, description of the activity, quantity, unit price and total price. In the event of discrepancy between the Schedule and the Letter of Intent, the Letter of Intent shall govern.

4. Evidence of good faith efforts will be evaluated by the Department in the selection of the lowest responsible bidder/best value bidder. All information requested by the Department for the purpose of evaluating the bidder's efforts to achieve the goal must be provided within three calendar days and must be accurate and complete in every detail. The apparent low bidder's/best value bidder's attainment of the M/WBE or SDVOBE goal or a satisfactory demonstration of good faith efforts is a prerequisite for Award of the Contract.

5. Failure to meet, or to demonstrate good faith efforts to meet, the requirements of these Special Provisions shall render a bid non-responsive. Therefore, in order to be eligible for award, the bidder (1) must list on the Schedule of Participation, and provide the required Letters of Intent for, M/WBE or SDVOBE participation which meets or exceeds the Contract goal in accordance with the terms of these Special Provisions or (2) must demonstrate, to the satisfaction of the Department, that good faith efforts were made to achieve the goal.

6. If the Department finds that the percentage of M/WBE or SDVOBE participation submitted by the bidder on its Schedule does not meet the Contract goal, or that the Letters of Intent were not timely filed, and that the bidder has not demonstrated good faith efforts to comply with these requirements, it shall propose that the bidder be declared ineligible for Award. In that case, the bidder may request administrative reconsideration. Such requests must be sent in writing within three calendar days of receiving notice of proposed ineligibility to: The Office of the General Counsel, Massachusetts Department of Transportation, 10 Park Plaza, Boston, MA, 02116.

7. If, after administrative reconsideration, the Department finds that the bidder has not shown that sufficient good faith efforts were made to comply with the requirements of these Special Provisions it shall reject the bidder's proposal and may retain the proposal guaranty.

8. Actions which constitute evidence of good faith efforts to meet the M/WBE or SDVOBE goals include, but are not limited to, all of the following examples:

    a. Efforts made to select portions of the work proposed to be performed by M/WBEs or SDVOBEs in order to increase the likelihood of achieving the stated goal, including, where appropriate, but not limited to, breaking down contracts into economically feasible units to facilitate M/WBE and SDVOBE participation. The value of such work is required to at least equal the M/WBE and SDVOBE goal.

    b. Reasonable written notification prior to the opening of bids soliciting individual M/WBEs or SDVOBEs interested in participation in the contract as subcontractors, regular dealers, manufacturers, consultants, or service providers and identifying the specific items or type of work being solicited.

    c. Written notification to M/WBE or SDVOBE economic development assistance agencies and organizations which provide assistance in recruitment and placement of M/WBEs and SDVOBEs, describing the type of work, supplies or services being considered for M/WBE or SDVOBE subcontracting on this contract.

    d. Efforts made to negotiate with M/WBEs or SDVOBEs for specific items of work including evidence of:
        (1) The names, addresses, telephone numbers of M/WBEs or SDVOBEs who were contacted, the dates of initial contact and whether initial solicitations of interest were followed up by contacts with M/WBEs or SDVOBEs to determine with certainty whether the M/WBEs or SDVOBEs were interested. Personal or phone contacts are expected.

        (2) A description of the information provided by the M/WBEs or SDVOBEs regarding the plans and specifications and estimated quantities for portions of the work to be performed.

        (3) A statement of why additional agreements with M/WBEs or SDVOBEs were not reached.

        (4) Documentation of each M/WBE or SDVOBE contacted but rejected and the reasons for the rejection.

    e. Absence of any agreements between the Contractor and the M/WBE or SDVOBE in which M/WBE or SDVOBE promises not to provide subcontracting quotations to other bidders.

    f. Efforts made to assist the M/WBEs or SDVOBEs that need assistance in obtaining bonding, insurance, or lines of credit required by the Contractor.

g. Documentation that qualified M/WBEs or SDVOBEs are not available, or are not interested.

h. Attendance at any meeting scheduled by the Department to encourage better Contractor-M/WBE or Contractor- SDVOBE relationships and/or to inform M/WBEs or SDVOBEs of forthcoming M/WBE or SDVOBE utilization opportunities.

i. Advertisement, in general circulation media, in trade association publications and in disadvantaged business enterprise-focused media, of interest in utilizing M/WBEs or SDVOBEs and the area of interest.

j. Efforts to effectively use the services of available minority community organizations; women organizations, veteran organizations, minority, women disadvantaged and veteran contractor's groups; local, state and federal disadvantaged business assistance offices; and other organizations that provide assistance in recruitment and placement of M/WBEs or SDVOBEs.

9. The demonstration of good faith efforts must establish that the Contractor has actively and aggressively sought out M/WBEs or SDVOBEs to participate in the project and has taken all actions which could be reasonably expected to achieve the goal. Examples of circumstances or actions not acceptable as reasons for failure to meet the M/WBE or SDVOBE goal, include, but are not limited to:

a. The M/WBE or SDVOBE was unable to provide performance and/or payment bonds.

b. The M/WBEs or SDVOBEs commercially reasonable bid was rejected based on price.

c. The M/WBE or SDVOBE would not agree to perform items of work at the unit bid price.

d The Contractor does not want to subcontract a percentage of the work sufficient to meet the goal.

e. Solicitation by mail or fax only.

XIII. COMPLIANCE

1. All activity performed by a M/WBE or SDVOBE for credit toward the Contract goal must be performed, managed and supervised by the M/WBE or SDVOBE. Prime Contractor shall not enter into, or condone, any other arrangement.

2. The Prime Contractor shall not perform with its own organization, or assign to any other business, any activity designated for the M/WBEs or SDVOBEs named on the Schedule submitted by the Prime Contractor under Section IX, or under Section XII(6), without the approval of the Department in accordance with the requirements of Sections XIII(6) and XIII(10).

3. The Department may suspend payment for any activity which was not performed by the M/WBE or SDVOBE to whom the activity was committed on the approved Schedule of Participation, or which was not performed in accordance with the requirements of Section XIII(1).

4. The Department retains the right to approve or disapprove all subcontractors. Requests by the Prime Contractor for approval of participation by a M/WBE or SDVOBE subcontractor for credit toward the Contract goal must include, in addition to any other requirements for subcontractor approval, the following:

a. A copy of the proposed subcontract. The subcontract must be for at least the dollar amount, and for the work described, in the Prime Contractor's Schedule of Participation.

b. A resume stating the qualifications and experience of the M/WBE or SDVOBE superintendent and/or foreperson who will supervise the on-site work. A new resume will be required for any change in supervisory personnel during the progress of the work.

c. A Schedule of Operations indicating when the M/WBE or SDVOBE is expected to perform the work.

d. A list of (1) equipment owned by the M/WBE or SDVOBE to be used on the Project, and (2) equipment to be leased by the M/WBE or SDVOBE for use on the Project.

e. A list of: (1) all projects (public and private) which the M/WBE or SDVOBE is currently performing, (2) all projects (public and private) to which the M/WBE or SDVOBE is committed, (3) all projects (public and private) to which the M/WBE or SDVOBE intends to make a commitment. For each contract, list the contracting organization, the name and telephone number of a contact person for the contracting organization, the dollar value of the work, a description of the work, and the M/WBEs or SDVOBEs work schedule for each project.

5. If, pursuant to the subcontractor approval process, the Department finds that a M/WBE or SDVOBE subcontractor does not have sufficient experience or resources to perform, manage and supervise work of the kind proposed in accordance with the requirements of Section XIII(1), approval of the M/WBE or SDVOBE subcontractor may be denied. In the event of such denial, the Prime Contractor shall proceed in accordance with the requirements of Sections XIII(6) and XIII(10).

6. If, for reasons beyond its control, the Prime Contractor cannot comply with its M/WBE or SDVOBE commitment in accordance with the Schedule of participation submitted under Section IX and the terms of these Special Provisions, the Prime Contractor shall submit to the Department the reasons for its inability to comply with its obligations under Section I and shall submit, and request approval for, a revised Schedule of Participation. If approved by the Department, the revised Schedule shall govern the Prime Contractor's performance in meeting its obligations under these special provisions.

7. A Prime Contractor's compliance with the participation goal in Section I shall be determined by reference to the required percentage of the total Contract price, including any additions and modifications thereto, provided, however, that no decrease in the dollar amount of a bidder's commitment to any M/WBE or SDVOBE shall be allowed without the approval of the Department.

8. If the Contract amount is increased, the Prime Contractor shall submit a revised Schedule of Participation in accordance with Sections XIII(6) and XIII(10).

9. In the event of the decertification of a M/WBE or SDVOBE participating or scheduled to participate on the contract for credit toward the goal, the Contractor shall proceed in accordance with Sections XIII(6) and XIII(10).

10. The Prime Contractor shall notify the Department immediately of any facts which come to its attention indicating that it may or will be unable to comply with any aspect of its M/WBE or SDVOBE obligation under this Contract.

11. Any notice required by these Special Provisions shall be given in writing to the Resident Engineer and the district designated Compliance Officer with a copy to the Director of Compliance, Office of Diversity and Civil Rights, 10 Park Plaza, Room 3170, Boston MA 02116.

12. The Prime Contractor and its subcontractors shall comply with the Department’s Electronic Reporting System Requirements (Contract Document 00821) and submit all information required by the Department related to the M/WBE Special Provisions and SDVOBE Special Provisions through the Equitable Business Opportunity Solution (EBO). The Department reserves the right to request reports in the format it deems necessary anytime during the performance of the Contract.

13. The Contractor shall pay each M/WBE or SDVOBE for satisfactory performance of its Contract no later than 10 days from receipt of payment for the work from the Department. Any delay or postponement of payment to the M/WBEs or SDVOBEs must be for good cause and only with the prior approval of the Department.

14. The Department may withhold the Contractor's next periodic payment if each M/WBE or SDVOBE is not paid in accordance with Section XIII(13).

15. The Department may require specific performance of the Prime Contractor's commitment under the Contract by requiring the Prime Contractor to subcontract with a M/WBE or SDVOBE for any contract or specialty item.

XIV. SANCTIONS

If the Prime Contractor does not comply with the terms of these Special Provisions and cannot demonstrate to the satisfaction of the Department that good faith efforts were made to achieve such compliance, the Department may, in addition to any other remedy provided for in the Contract, and notwithstanding any other provision in the Contract:

1. Retain, in connection with final acceptance and final payment, an amount determined by multiplying the total contract amount by the percentage in Section I, less the amount paid to approved M/WBEs or SDVOBEs for work performed under the Contract in accordance with the provisions of Section X. The Prime Contractor shall have the right to appeal such retention of funds in accordance with the provisions of M.G.L. c. 30A s.10.

2. Suspend, terminate or cancel this Contract, in whole or in part, and call upon the Prime Contractor's surety to perform all terms and conditions in the Contract.

3. In accordance with 720 CMR 5.05(1)(f), modify or revoke the Prime Contractor's Prequalification status or recommend that the Prime Contractor not receive award of a pending Contract. The Prime Contractor may appeal the determination of the Prequalification Committee in accordance with the provisions of 720 CMR 5.07.

4. Initiate debarment proceedings under M.G.L. c.29 §29F.

XV. FURTHER INFORMATION

Any proposed M/WBE, SDVOBE, bidder, Contractor or subcontractor shall provide such information as is necessary in the judgement of the Department to ascertain its compliance with the terms of this Special Provision.

XVI. LIST OF ADDITIONAL DOCUMENTS

1. The following documents shall be completed and signed by the bidder and designated M/WBEs or SDVOBEs in accordance with Section XII - Award Documentation and Procedures. These documents must be returned by the bidder to MassDOT's Bid Document Distribution Center:

   □ Schedule of M/WBEs (Document B00842) or SDVOBE Participation (Document B00844)
   □ Letter of Intent: M/WBEs (Document B00843) or SDVOBE (Document B00845)
   □ M/WBEs or SDVOBE Joint Check Arrangement Approval Form (Document B00846), if Contractor and M/WBE or SDVOBE plan, or if M/WBE or SDVOBE is required to use a Joint Check (when applicable)

2. The following document shall be signed and returned by Contractor and Subcontractors/M/WBEs or SDVOBEs to the MassDOT District Office overseeing the Project, as applicable:

   □ Contractor/Subcontractor Certification Form (Document No. 00859) (a checklist of other documents to be included with every subcontract (M/WBEs or SDVOBEs and non-M/WBEs or SDVOBEs alike)).

3. The following document shall be provided to MassDOT's Office of Civil Rights and Prequalification Office at least fourteen (14) business days before the bid opening date:

   □ Joint Venture Affidavit of M/WBE or SDVOBE/Non-M/WBE or Non-SDVOBE (Document B00847)

4. The following document shall be provided to MassDOT's District Office of Civil Rights within 30 calendar days after the work of the M/WBE is completed, or no later than 30 calendar days after the work of the M/WBE is on a completed and processed CQE. This document shall be completed and submitted by the Prime Contractor:

   □ Certificate of Completion by a Minority/Women or Disadvantaged Business Enterprise (M/WBE) (Form No. CSD-100)

** END OF DOCUMENT ***

DOCUMENT 00761

SPECIAL PROVISIONS FOR CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

Revised: 02/09/16

I. Instructions for Certification - Primary Covered Transactions:

By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.

1. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the MassDOT's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

2. The certification in this clause is a material representation of fact upon which reliance was placed when the MassDOT determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available, the MassDOT may terminate this transaction for cause of default.

3. The prospective primary participant shall provide immediate written notice to the MassDOT if any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

4. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the MassDOT for assistance in obtaining a copy of those regulations.

5. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the MassDOT.

6. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," provided by the MassDOT, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

7. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the nonprocurement portion of the "Lists of Parties Excluded From Federal Procurement or Nonprocurement Programs" (Nonprocurement List) which is compiled by the General Services Administration and the Debarment Lists compiled by both the Massachusetts Office of the Attorney General and the Department of Capital Asset Management and Maintenance (DCAMM) and published separately in the Central Register.

8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

9. Except for transactions authorized under paragraph 5 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available, the MassDOT may terminate this transaction for cause or default.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion -- Primary Covered Transactions

The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

1. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal, State or local department or agency;

2. Have not within a 3-year period preceding this proposal been convicted of or had a civil judgement rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

3. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 2 of this certification; and

4. Have not within a 3-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

II. Instructions for Certification - Lower Tier Covered Transactions:

By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.

1. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available the MassDOT may pursue available remedies, including suspension and/or debarment.

2. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

3. The terms "covered transaction," "debarred," "suspended," "ineligible," "primary covered transaction," "participant," "person," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the MassDOT for assistance in obtaining a copy of those regulations.

4. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the MassDOT.

5. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

6. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List and the Debarment Lists.

7. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

8. Except for transactions authorized under paragraph 4 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, the MassDOT may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions

The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal, State or local department or agency.

Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

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DOCUMENT 00811

SPECIAL PROVISIONS
MONTHLY PRICE ADJUSTMENT FOR HOT MIX ASPHALT (HMA) MIXTURES
Revised: 02/03/2023

This provision applies to all projects using greater than 100 tons of hot mix asphalt (HMA) mixtures containing liquid asphalt cement as stipulated in the Notice to Contractors section of the bid documents.

Price Adjustments will be based on the variance in price, for the liquid asphalt component only, between the Base Price and the Period Price. They shall not include transportation or other charges. Price Adjustments will occur on a monthly basis.

Base Price
The Base Price of liquid asphalt on a project as listed in the Notice to Contractors section of the bid documents is a fixed price determined by the Department at the time of the bid using the same method as the determination of the Period Price detailed below. The Base Price shall be used in all bids.

Period Price
The Period Price is the price of liquid asphalt for each monthly period as determined by the Department using the average selling price per standard ton of PG64-28 paving grade (primary binder classification) asphalt, FOB manufacturer's terminal, as listed under the "East Coast Market - New England, Boston, Massachusetts area" section of the Poten & Partners, Inc. "Asphalt Weekly Monitor". This average selling price is listed in the issue having a publication date of the second Friday of the month and will be posted as the Period Price for that month. The Department will post this Period Price on its website at https://www.mass.gov/service-details/massdot-current-contract-price-adjustments following its receipt of the relevant issue of the "Asphalt Weekly Monitor". Poten and Partners has granted the Department the right to publish this specific asphalt price information sourced from the Asphalt Weekly Monitor.

Price Adjustment Determination, Calculation and Payment
The Contract Price of the HMA mixture will be paid under the respective item in the Contract. Price Adjustments, as herein provided, either upwards or downwards, will be made after the work has been performed using the monthly period price for the month during which the work was performed.

Price Adjustments will be paid only if the variance from the Base Price is 5% or more for a monthly period. The complete adjustment will be paid in all cases with no deduction of the 5% from either upward or downward adjustments.

The Price Adjustment applies only to the actual virgin liquid asphalt content in the mixture placed on the job in accordance with the approved Job Mix Formula.

Price Adjustments will be separate payment items. The pay item numbers are 999.401 for a positive price adjustment (a payment) and 999.402 for a negative price adjustment (a deduction). Price Adjustments will be calculated using the following equation:

Price Adjustment = Tons of HMA Placed X Liquid Asphalt Content % X RAP Factor X (Period Price - Base Price)

No Price Adjustment will be allowed beyond the Completion Date of this Contract, unless there is a Department-approved extension of time.

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DOCUMENT 00812

SPECIAL PROVISIONS
MONTHLY PRICE ADJUSTMENT FOR DIESEL FUEL AND GASOLINE –
ENGLISH UNITS
Revised: 02/01/2021

This monthly fuel price adjustment is inserted in this contract because the national and worldwide energy situation has made the future cost of fuel unpredictable. This adjustment will provide for either additional compensation to the Contractor or repayment to the Commonwealth, depending on an increase or decrease in the average price of diesel fuel or gasoline.

This adjustment will be based on fuel usage factors for various items of work developed by the Highway Research Board in Circular 158, dated July 1974. These factors will be multiplied by the quantities of work done in each item during each monthly period and further multiplied by the variance in price from the Base Price to the Period Price.

The Base Price of Diesel Fuel and Gasoline will be the price as indicated in the Department's web site https://www.mass.gov/service-details/massdot-current-contract-price-adjustments for the month in which the contract was bid, which includes State Tax.

The Period Price will be the average of prices charged to the State, including State Tax for the bulk purchases made during each month.

This adjustment will be effected only if the variance from the Base Price is 5% or more for a monthly period. The complete adjustment will be paid in all cases with no deduction of the 5% from either upward or downward adjustments.

No adjustment will be paid for work done beyond the extended completion date of any contract.

Any adjustment (increase or decrease) to estimated quantities made to each item at the time of final payment will have the fuel price adjustment figured at the average period price for the entire term of the project for the difference of quantity.

The fuel price adjustment will apply only to the following items of work at the fuel factors shown:

ITEMS COVERED	FUEL FACTORS	
	Diesel	Gasoline
Excavation: and Borrow Work: Items 120, 120.1, 121, 123, 124, 125, 127, 129.3, 140, 140.1, 141, 142, 143, 144, 150, 150.1, 151 and 151.1 (Both Factors used)	0.29 Gallons / CY.	0.15 Gallons / CY
Surfacing Work: All Items containing Hot Mix Asphalt	2.90 Gallons / Ton	Does Not Apply

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DOCUMENT 00813

SPECIAL PROVISIONS

PRICE ADJUSTMENTS FOR STRUCTURAL STEEL AND REINFORCING STEEL

July 15, 2026

This special provision applies to all projects containing the use of structural steel and/or reinforcing steel as specified elsewhere in the Contract work. It applies to all structural steel and all reinforcing steel, as defined below, on the project. Compliance with this provision is mandatory, i.e., there are no "opt-in" or "opt-out" clauses. Price adjustments will be handled as described below and shall only apply to unfabricated reinforcing steel bars and unfabricated structural steel material, consisting of rolled shapes, plate steel, sheet piling, pipe piles, steel castings and steel forgings.

Price adjustments will be variances between Base Prices and Period Prices. Base Prices and Period Prices are defined below.

Price adjustments will only be made if the variances between Base Prices and Period Prices are 5% or more. A variance can result in the Period Price being either higher or lower than the Base Price. Once the 5% threshold has been achieved, the adjustment will apply to the full variance between the Base Price and the Period Price.

Price adjustments will be calculated by multiplying the number of pounds of unfabricated structural steel material or unfabricated reinforcing steel bars on a project by the index factor calculated as shown below under Example of a Period Price Calculation.

Price adjustments will *not* include guardrail panels or the costs of shop drawing preparation, handling, fabrication, coatings, transportation, storage, installation, profit, overhead, fuel costs, fuel surcharges, or other such charges not related to the cost of the unfabricated structural steel and unfabricated reinforcing steel.

The weight of steel subject to a price adjustment shall not exceed the final shipping weight of the fabricated part by more than 10%.

Base Prices and Period Prices are defined as follows:

Base Prices of unfabricated structural steel and unfabricated reinforcing steel on a project are fixed prices determined by the Department and found in the table below. While it is the intention of the Department to make this table comprehensive, some of a project's unfabricated structural steel and/or unfabricated reinforcing steel may be inadvertently omitted. Should this occur, the Contractor shall bring the omission to the Department's attention so that a contract alteration may be processed that adds the missing steel to the table and its price adjustments to the Contract.

The Base Price Date is the month and year of the most recent finalized period price index at the time that MassDOT opened bids for the project. The Base Price Index for this contract is the Steel PPI listed in the Notice to Contractors.

Period Prices of unfabricated structural steel and unfabricated reinforcing steel on a project are variable prices that have been calculated using the Period Price Date and an index of steel prices to adjust the Base Price.

The Period Price Date is the date the steel was delivered to the fabricator as evidenced by an official bill of lading submitted to the Department containing a description of the shipped materials, weights of the shipped materials and the date of shipment. This date is used to select the Period Price Index.

The index used for the calculation of Period Prices is the U.S. Department of Labor Bureau of Labor Statistics Producer Price Index (PPI) Series ID WPU101702 (Not Seasonally Adjusted, Group: Metals and Metal Products, Item: Semi-finished Steel Mill Products.) As this index is subject to revision for a period of up to four (4) months after its original publication, no price adjustments will be made until the index for the period is finalized, i.e., the index is no longer suffixed with a "(P)".

Period Prices are determined as follows:

Period Price = Base Price X Index Factor
Index Factor = Period Price Index / Base Price Index

Example of a Period Price Calculation:

Calculate the Period Price for December 2009 using a Base Price from March 2009 of $0.82/Pound for 1,000 Pounds of ASTM A709 (AASHTO M270) Grade A36 Structural Steel Plate.

The Period Price Date is December 2009. From the PPI website*, the Period Price Index = 218.0.

The Base Price Date is March 2009. From the PPI website*, the Base Price Index = 229.4.

Index Factor = Period Price Index / Base Price Index = 218.0 / 229.4 = 0.950
Period Price = Base Price X Index Factor = $0.82/Pound X 0.950 = $0.78/Pound

Since $0.82 - $0.78 = $0.04 is less than 5% of $0.82, no price adjustment is required.

If the $0.04 difference shown above was greater than 5% of the Base Price, then the price adjustment would be 1,000 Pounds X $0.04/Pound = $40.00. Since the Period Price of $0.78/Pound is less than the Base Price of $0.82/Pound, indicating a drop in the price of steel between the bid and the delivery of material, a credit of $40.00 would be owed to MassDOT. When the Period Price is higher than the Base Price, the price adjustment is owed to the Contractor.

* To access the PPI website and obtain a Base Price Index or a Period Price Index, go to http://data.bls.gov/cgi-bin/srgate

End of example.

The Contractor will be paid for unfabricated structural steel and unfabricated reinforcing steel under the respective contract pay items for all components constructed of either structural steel or reinforced Portland cement concrete under their respective Contract Pay Items.

Price adjustments, as herein provided for, will be paid separately as follows:

Structural Steel
Pay Item Number 999.449 for positive (+) pay adjustments (payments to the Contractor)

Pay Item Number 999.457 for negative (-) pay adjustments (credits to MassDOT Highway Division)

Reinforcing Steel
Pay Item Number 999.466 for positive (+) pay adjustments (payments to the Contractor)

Pay Item Number 999.467 for negative (-) pay adjustments (credits to MassDOT Highway Division)

No price adjustment will be made for price changes after the Contract Completion Date, unless the MassDOT Highway Division has approved an extension of Contract Time for the Contract.

TABLE

Steel Type		Price per Pound
1	ASTM A615/A615M Grade 60 (AASHTO M31 Grade 60 or 420) Reinforcing Steel	$0.57
2	ASTM A27 (AASHTO M103) Steel Castings, H-Pile Points & Pipe Pile Shoes (See Note below.)	$0.80
3	ASTM A668 / A668M (AASHTO M102) Steel Forgings	$0.80
4	ASTM A108 (AASHTO M169) Steel Forgings for Shear Studs	$0.82
5	ASTM A709/A709M Grade 36 / AASHTO M270M/M270 Grade 36 or 250 Structural Steel Plate	$0.86
6	ASTM A709/A709M Grade 36 / AASHTO M270M/M270 Grade 36 or 250 Structural Steel Shapes	$0.81
7	ASTM A709/A709M Grade 50 / AASHTO M270M/M270 Grade 50 or 345 Structural Steel Plate	$0.86
8	ASTM A709/A709M Grade 50 / AASHTO M270M/M270 Grade 50 or 345 Structural Steel Shapes	$0.81
9	ASTM A709/A709M Grade 50WT / AASHTO M270M/M270 Grade 50WT or 345WT Structural Steel Plate	$0.89
10	ASTM A709/A709M Grade 50WT / AASHTO M270M/M270 Grade 50WT or 345WT Structural Steel Shapes	$0.82
11	ASTM A709/A709M Grade 50W / AASHTO M270M/M270 Grade 50W 345W Structural Steel Plate	$0.89
12	ASTM A709/A709M Grade 50W / AASHTO M270M/M270 Grade 50W or 345W Structural Steel Shapes	$0.82
13	ASTM A709/A709M Grade HPS 50W / AASHTO M270M/M270 Grade HPS 50W or 345W Structural Steel Plate	$0.93
14	ASTM A709/A709M Grade HPS 70W / AASHTO M270M/M270 Grade HPS 70W or 485W Structural Steel Plate	$1.00
15	ASTM A514/A514M-05 Grade HPS 100W / AASHTO M270M/M270 Grade HPS 100W or 690W Structural Steel Plate	$1.53
16	ASTM A992/A992M Grade 50S / AASHTO M270M/M270 Grade 50S or 345S Structural Steel Plate	$0.89
17	ASTM A992/A992M Grade 50S / AASHTO M270M/M270 Grade 50S or 345S Structural Steel Shapes	$0.82
18	ASTM A276 Type 316 Stainless Steel	$4.61
19	ASTM A240 Type 316 Stainless Steel	$4.61
20	ASTM A148 Grade 80/50 Steel Castings (See Note below.)	$1.58
21	ASTM A53 Grade B Structural Steel Pipe	$1.00
22	ASTM A500 Grades A, B, 36 & 50 Structural Steel Pipe	$1.00
23	ASTM A252, Grades 240 (36 KSI) & 414 (60 KSI) Pipe Pile	$0.80
24	ASTM 252, Grade 2 Permanent Steel Casing	$0.80
25	ASTM A36 (AASHTO M183) for H-piles, steel supports and sign supports	$0.84
26	ASTM A328 / A328M, Grade 50 (AASHTO M202) Steel Sheetpiling	$1.51
27	ASTM A572 / A572M, Grade 50 Sheetpiling	$1.51
28	ASTM A36/36M, Grade 50	$0.86
29	ASTM A570, Grade 50	$0.84
30	ASTM A572 (AASHTO M223), Grade 50 H-Piles	$0.86
31	ASTM A1085 Grade A (50 KSI) Steel Hollow Structural Sections (HSS), heat-treated per ASTM A1085 Supplement S1	$1.00
32	AREA 140 LB Rail and Track Accessories	$0.52

NOTE: Steel Castings are generally used only on moveable bridges. Cast iron frames, grates and pipe are not "steel" castings and will not be considered for price adjustments.

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DOCUMENT 00814

SPECIAL PROVISIONS
PRICE ADJUSTMENT FOR PORTLAND CEMENT CONCRETE MIXES

January 12, 2009

This provision applies to all projects using greater than 100 Cubic Yards (76 Cubic Meters) of Portland cement concrete containing Portland cement as stipulated in the Notice to Contractors section of the Bid Documents. This Price Adjustment will occur on a monthly basis.

The Price Adjustment will be based on the variance in price for the Portland cement component only from the Base Price to the Period Price. It shall not include transportation or other charges.

The Base Price of Portland cement on a project is a fixed price determined at the time of bid by the Department by using the same method as for the determination of the Period Price (see below) and found in the Notice to Contractors.

The Period Price of Portland cement will be determined by using the latest published price, in dollars per ton (U.S.), for Portland cement (Type I) quoted for Boston, U.S.A. in the **Construction Economics** section of *ENR Engineering News-Record* magazine or at the ENR website http://www.enr.com under **Construction Economics**. The Period Price will be posted on the MassDOT website the Wednesday immediately following the publishing of the monthly price in ENR, which is normally the first week of the month.

The Contract Price of the Portland cement concrete mix will be paid under the respective item in the Contract. The price adjustment, as herein provided, upwards or downwards, will be made after the work has been performed, using the monthly period price for the month during which the work was performed.

The price adjustment applies only to the actual Portland cement content in the mix placed on the job in accordance with the Standard Specifications for Highways and Bridges, Division III, Section M4.02.01. No adjustments will be made for any cement replacement materials such as fly ash or ground granulated blast furnace slag.

The Price Adjustment will be a separate payment item. It will be determined by multiplying the number of cubic yards of Portland cement concrete placed during each monthly period times the Portland cement content percentage times the variance in price between the Base Price and Period Price of Portland cement.

This Price Adjustment will be paid only if the variance from the Base Price is 5% or more for a monthly period. The complete adjustment will be paid in all cases with no deduction of the 5% from either upward or downward adjustments.

No Price Adjustment will be allowed beyond the Completion Date of this Contract, unless there is a Department-approved extension of time.

*** END OF DOCUMENT ***

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DOCUMENT 00820

THE COMMONWEALTH OF MASSACHUSETTS
SUPPLEMENTAL EQUAL EMPLOYMENT OPPORTUNITY, NON-DISCRIMINATION AND AFFIRMATIVE ACTION PROGRAM

I. Definitions

For purposes of this contract,

"Minority" means a person who meets one or more of the following definitions:

(a) American Indian or Native American means: all persons having origins in any of the original peoples of North America and who are recognized as an Indian by a tribe or tribal organization.
(b) Asian means: All persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian sub-continent, or the Pacific Islands, including, but Not limited to China, Japan, Korea, Samoa, India, and the Philippine Islands.
(c) Black means: All persons having origins in any of the Black racial groups of Africa, including, but not limited to, African-Americans, and all persons having origins in any of the original peoples of the Cape Verdean Islands.
(d) Eskimo or Aleut means: All persons having origins in any of the peoples of Northern Canada, Greenland, Alaska, and Eastern Siberia.
(e) Hispanic means: All persons having their origins in any of the Spanish-speaking peoples of Mexico, Puerto Rico, Cuba, Central or South America, or the Caribbean Islands.

"State construction contract" means a contract for the construction, reconstruction, installation, demolition, maintenance or repair of a building or capital facility, or a contract for the construction, reconstruction, alteration, remodeling or repair of a public work undertaken by a department, agency, board, or commission of the commonwealth.

"State assisted construction contract" means a contract for the construction, reconstruction, installation, demolition, maintenance or repair of a building or capital facility undertaken by a political subdivision of the commonwealth, or two or more political subdivisions thereof, an authority, or other instrumentality and whose costs of the contract are paid for, reimbursed, grant funded, or otherwise supported, in whole or in part, by the commonwealth.

II. Equal Opportunity, Non-Discrimination and Affirmative Action

During the performance of this Contract, the Contractor and all subcontractors (hereinafter collectively referred to as "the Contractor") for a state construction contract or a state assisted construction contract, for him/herself, his/her assignees and successors in interest, agree to comply with all applicable equal employment opportunity, non-discrimination and affirmative action requirements, including but not limited to the following:

In connection with the performance of work under this contract, the Contractor shall not discriminate against any employee or applicant for employment because of race, color, religious creed, national origin, sex, sexual orientation, genetic information, military service, age, ancestry or disability, shall not discriminate in the selection or retention of subcontractors, and shall not discriminate in the procurement of materials and rentals of equipment.

The aforesaid provision shall include, but not be limited to, the following: employment upgrading, demotion, or transfer; recruitment advertising, layoff or termination; rates of pay or other forms of compensation; conditions or privileges of employment; and selection for apprenticeship or on-the-job training opportunity. The Contractor shall comply with the provisions of chapter 151B of the Massachusetts General Laws, as amended, and all other applicable anti-discrimination and equal opportunity laws, all of which are herein incorporated by reference and made a part of this Contract.

The Contractor shall post hereafter in conspicuous places, available for employees and applicants for employment, notices to be provided by the Massachusetts Commission Against Discrimination setting forth the provisions of the Fair Employment Practices Law of the Commonwealth (Massachusetts General Laws Chapter l51 B).

In connection with the performance of work under this contract, the Contractor shall undertake, in good faith, affirmative action measures to eliminate any discriminatory barriers in the terms and conditions of employment on the grounds of race, color, religious creed, national origin, sex, sexual orientation, genetic information, military service, age, ancestry or disability. Such affirmative action measures shall entail positive and aggressive measures to ensure nondiscrimination and to promote equal opportunity in the areas of hiring, upgrading, demotion or transfer, recruitment, layoff or termination, rate of compensation, apprenticeship and on-the-job training programs. A list of positive and aggressive measures shall include, but not be limited to, advertising employment opportunities in minority and other community news media; notifying minority, women and other community-based organizations of employment opportunities; validating all job specifications, selection requirements, and tests; maintaining a file of names and addresses of each worker referred to the Contractor and what action was taken concerning such worker; and notifying the administering agency in writing when a union with whom the Contractor has a collective bargaining agreement has failed to refer a minority or woman worker. These and other affirmative action measures shall include all actions required to guarantee equal employment opportunity for all persons, regardless of race, color, religious creed, national origin, sex, sexual orientation, genetic information, military service, age, ancestry or disability. One purpose of this provision is to ensure to the fullest extent possible an adequate supply of skilled tradesmen for this and future Commonwealth public construction projects.

III. Minority and Women Workforce Participation

Pursuant to his/her obligations under the preceding section, the Contractor shall strive to achieve on this project the labor participation goals contained herein. Said participation goals shall apply in each job category on this project including but not limited to bricklayers, carpenters, cement masons, electricians, ironworkers, operating engineers and those classes of work enumerated in Section 44F of Chapter 149 of the Massachusetts General Laws. The participation goals for this project shall be 15.3% for minorities and 6.9% for women. The participation goals, as set forth herein, shall not be construed as quotas or set-asides; rather, such participation goals will be used to measure the progress of the Commonwealth's equal opportunity, non-discrimination and affirmative action program. Additionally, the participation goals contained herein should not be seen or treated as a floor or as a ceiling for the employment of particular individuals or group of individuals.

IV. Liaison Committee

At the discretion of the agency that administers the contract for the construction project there may be established for the life of the contract a body to be known as the Liaison Committee. The Liaison Committee shall be composed of one representative each from the agency or agencies administering the contract for the construction project, hereinafter called the administering agency, a representative from the Office of Affirmative action, and such other representatives as may be designated by the administering agency. The Contractor (or his/her agent, if any, designated by him/her as the on-site equal employment opportunity officer) shall recognize the Liaison Committee as an affirmative action body, and shall establish a continuing working relationship with the Liaison Committee, consulting with the Liaison Committee on all matters related to minority recruitment, referral, employment and training.

V. Reports and Records

The Contractor shall prepare projected workforce tables on a quarterly basis when required by the administering agency. These shall be broken down into projections, by week, of workers required in each trade. Copies shall be furnished one week in advance of the commencement of the period covered, and also, when updated, to the administering agency and the Liaison Committee when required.

The Contractor shall prepare weekly reports in a form approved by the administering agency, unless information required is required to be reported electronically by the administering agency, the number of hours worked in each trade by each employee, identified as woman, minority, or non-minority. Copies of these shall be provided at the end of each such week to the administering agency and the Liaison Committee.

Records of employment referral orders, prepared by the Contractor, shall be made available to the administering agency on request.

The Contractor will provide all information and reports required by the administering agency on instructions issued by the administering agency and will permit access to its facilities and any books, records, accounts and other sources of information which may be determined by the administering agency to effect the employment of personnel. This provision shall apply only to information pertinent to the Commonwealth's supplementary non-discrimination, equal opportunity and access and opportunity contract requirements. Where information required is in the exclusive possession of another who fails or refuses to furnish this information, the Contractor shall so certify to the administering agency and shall set forth what efforts he has made to obtain the information.

VI. Access to Work Site

A designee of the administering agency and a designee of the Liaison Committee shall each have a right to access the work site.

VII. Solicitations for Subcontracts, and for the Procurement of Materials and Equipment

In all solicitations either by competitive bidding or negotiation made by the Contractor either for work to be performed under a subcontract or for the procurement of materials or equipment, each potential subcontractor or supplier shall be notified in writing by the Contractor of the Contractor's obligations under this contract relative to non-discrimination and equal opportunity.

VIII. Sanctions

Whenever the administering agency believes the General or Prime Contractor or any subcontractor may not be operating in compliance with the provisions of the Fair Employment Practices Law of the Commonwealth (Massachusetts General Laws Chapter 151B), the administering agency may refer the matter to the Massachusetts Commission Against Discrimination ("Commission") for investigation.

Following the referral of a matter by the administering agency to the Massachusetts Commission Against Discrimination, and while the matter is pending before the MCAD, the administering agency may withhold payments from contractors and subcontractors when it has documentation that the contractor or subcontractor has violated the Fair Employment Practices Law with respect to its activities on the Project, or if the administering agency determines that the contractor has materially failed to comply with its obligations and the requirements of this Section. The amount withheld shall not exceed a withhold of payment to the General or Prime Contractor of 1/100 or 1% of the contract award price or $5,000, whichever sum is greater, or, if a subcontractor is in non-compliance, a withhold by the administering agency from the General Contractor, to be assessed by the General Contractor as a charge against the subcontractor, of 1/100 or 1% of the subcontractor price, or $1,000 whichever sum is greater, for each violation of the applicable law or contract requirements. The total withheld from anyone General or Prime Contractor or subcontractor on a Project shall not exceed $20,000 overall. No withhold of payments or investigation by the Commission or its agent shall be initiated without the administering agency providing prior notice to the Contractor.

If, after investigation, the Massachusetts Commission Against Discrimination finds that a General or Prime Contractor or subcontractor, in commission of a state construction contract or state-assisted construction contract, violated the provisions of the Fair Employment Practices Law, the administering agency may convert the amount withheld as set forth above into a permanent sanction, as a permanent deduct from payments to the General or Prime Contractor or subcontractor, which sanction will be in addition to any such sanctions, fines or penalties imposed by the Massachusetts Commission Against Discrimination.

No sanction enumerated under this Section shall be imposed by the administering agency except after notice to the General or Prime Contractor or subcontractor and an adjudicatory proceeding, as that term is used, under Massachusetts General Laws Chapter 30A, has been conducted.

IX. Severability

The provisions of this section are severable, and if any of these provisions shall be held unconstitutional by any court of competent jurisdiction, the decision of such court shall not affect or impair any of the remaining provisions.

X. Contractor's Certification

After award and prior to the execution of any contract for a state construction contract or a state assisted construction contract, the Prime or General Contractor shall certify that it will comply with all provisions of this Document 00820 Supplemental Equal Employment Opportunity, Non-Discrimination and Affirmative Action Program, by executing Document 00859 Contractor/Subcontractor Certification Form.

XI. Subcontractor Requirements

Prior to the award of any subcontract for a state construction contract or a state assisted construction contract, the Prime or General Contractor shall provide all prospective subcontractors with a complete copy of this Document 00820 entitled "Supplemental Equal Employment Opportunity, Non-Discrimination and Affirmative Action Program" and will incorporate the provisions of this Document 00820 into any and all contracts or work orders for all subcontractors providing work on the Project. In order to ensure that the said subcontractor's certification becomes a part of all subcontracts under the prime contract, the Prime or General Contractor shall certify in writing to the administering agency that it has complied with the requirements as set forth in the preceeding paragraph by executing Document 00859 Contractor/Subcontractor Certification Form.

Rev'd 03/07/14

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DOCUMENT 00821

ELECTRONIC REPORTING REQUIREMENTS
CIVIL RIGHTS PROGRAMS AND CERTIFIED PAYROLL

Implemented on March 2, 2009 Revised June 04, 2019

The Massachusetts Department Of Transportation (MassDOT) has replaced the CHAMP reporting system with Equitable Business Opportunity Solution (EBO), a new web-based civil rights reporting software system. This system is capable of handling both civil rights reporting requirements and certified payrolls. The program's functions include the administration of Equal Employment Opportunity (EEO) requirements, On-The-Job Training requirements (OJT), Disadvantage Business Enterprise (DBE) and/or Minority / Women's Business Enterprise (M/WBE) subcontracting requirements, and the electronic collection of certified payrolls associated with MassDOT projects. In addition, this system is used to generate various data required as part of the American Recovery and Reinvestment Act (ARRA). Contractors are responsible for all coordination with all sub-contractors to ensure timely and accurate electronic submission of all required data.

Contractor and Sub-Contractor EBO User Certification

All contractors and sub-contractors must use the EBO software system. The software vendor, Internet Government Solutions (IGS), has developed an online EBO Training Module that is available to contractors and sub-contractors. This module is a self-tutorial which allows all users in the company to access the training, complete the tutorial, and become certified as EBO users for a one time fee of $75.00. This is the only cost to contractors and sub-contractors associated with the EBO software system. The online EBO Training Module can be accessed at www.ebotraining.com. Click the "Register My Company" button on the login page to begin your training registration. Questions regarding EBO online training should be directed to Gerry Anguilano, IGS at (440) 238-1684.

MassDOT will track contractors and sub-contractors who have successfully completed the on-line training module. All persons performing civil rights program and/or certified payroll functions should be EBO certified.

Vetting of Firms and Designated Firm Individuals

Contractors must authorize a Primary Log-In ID Holder who has completed EBO on-line training to have access to the EBO system by completing and submitting the "Request For EBO System Log-In/Password Form" located on the MassDOT website at: https://www.mass.gov/how-to/how-to-get-an-ebo-login
Contractors must also agree to comply with the EBO system user agreement located on the MassDOT website.

All subcontracts entered into on a project must include language that identifies the submission and training requirements that the sub-contractor must perform. Sub-contractors will be approved by the respective District Office of MassDOT through the existing approval process. When new sub-contractors, who have not previously worked for MassDOT, are initially selected by a general contractor, the new sub-contractor must be approved by the District before taking the EBO on-line training module.

Interim Reporting Requirements

Until MassDOT is satisfied that the EBO system is fully operational and functioning as designed, contractors and sub-contractors will be required to submit certified payrolls manually. There will be a transition period where dual reporting, through manual and electronic submission, will be required. MassDOT, however, will notify contractors and sub-contractors when they may cease manual submission of certified payrolls.

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DOCUMENT 00859

CONTRACTOR/SUBCONTRACTOR CERTIFICATION FORM ‡

The contractor shall submit this completed document 00859 to MassDOT for each subcontract.

_____ **(Contractor)** **Date:**_____

_____**(Subcontractor)** ☐ District Approved Subcontractor

Contract No: 135581 **Project No.** 616282 **Federal Aid No.:** NFA

Location: ASHFIELD-CHARLEMONT-CONWAY-HAWLEY

Project Description: Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 1)

PART 1 CONTRACTOR CERTIFICATION: I hereby certify, as an authorized official of this company, that to the best of my knowledge, information and belief, the company is in compliance with all applicable federal and state laws, rules, and regulations governing fair labor and employment practices, that the company will not discriminate in their employment practices, that the company will make good faith efforts to comply with the minority employee and women employee workforce participation ratio goals and specific affirmative action steps contained in Contract Document 00820 The Commonwealth of Massachusetts Supplemental Equal Employment Opportunity, Non-Discrimination and Affirmative Action Program, and that the company will comply with the special provisions and documentation indicated below (as checked).

I further hereby certify, as an authorized official of this company, that the special provisions and documentation indicated below (as checked) have been or are included in, and made part of, the Subcontractor Agreement entered into with the firm named above.

☐ **This is not a Federally-aided construction project**

Document #

☐ 00718 –Participation By Minority Or Women's Business Enterprises and SDVOBE†
☐ 00761 –Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion
☐ 00820 – MA Supplemental Equal Employment Opportunity, Non-Discrimination, and Affirmative Action Program
☐ 00821 – Electronic Reporting Requirements, Civil Rights Programs, and Certified Payroll
☐ 00859 – Contractor/Subcontractor Certification Form (this document)
☐ 00860 – MA Employment Laws
☐ 00861 – Applicable State Wage Rates in the Contract Proposal**
☐ B00842 – MA Schedule of Participation By Minority or Women Business Enterprises (M/WBEs)†
☐ B00843 – MA Letter of Intent – M/WBEs†

** Does not apply to Material Suppliers, unless performing work on-site
† Applies only if Subcontractor is a M/WBE; only include these forms for the particular M/WBE Entity

☐ B00844 - Schedule of Participation By SDVOBE
☐ B00845 - Letter of Intent – SDVOBE
☐ B00846 – M/WBE or SDVOBE Joint Check Arrangement Approval Form
☐ B00847 – Joint Venture Affidavit

☐ **This is a Federally-aided construction project (Federal Aid Number is present)**

Document #

☐ 00719 – Special Provisions for Participation by Disadvantaged Business Enterprises†
☐ 00760 - Form FHWA 1273 - Required Contract Provisions for Federal-Aid Construction Contracts
☐ 00820 – MA Supplemental Equal Employment Opportunity, Non-Discrimination and Affirmative Action Program
☐ 00821 – Electronic Reporting Requirements, Civil Rights Programs and Certified Payroll
☐ 00859 – Contractor/Subcontractor Certification Form (this document)
☐ 00860 – MA Employment Laws
☐ 00870 – Standard Federal Equal Employment Opportunity Construction Contract Specifications Executive Order 11246, (41 CFR Parts 60-4.2 and 60-4.3 (Solicitations and Equal Opportunity Clauses)*
☐ 00875 – Federal Trainee Special Provisions

☐ B00853 – Schedule of Participation by Disadvantaged Business Enterprise†
☐ B00854 – Letter of Intent – DBEs†
☐ B00855 – DBE Joint Check Arrangement Approval Form
☐ B00856 – Joint Venture Affidavit
☐ 00861/00880 - Applicable state and federal wage rates from Contract Proposal**

*Applicable only to Contracts or Subcontracts in excess of $10,000
**Does not apply to Material Suppliers, unless performing work on-site
† Applies only if Subcontractor is a DBE; only include these forms for the particular DBE Entity

Signed this _____ Day of _____, 20_____ Under The Pains And Penalties Of Perjury.

_____ _____
(Print Name and Title) (Authorized Signature)

PART 2

PART 2 SUBCONTRACTOR CERTIFICATION: I hereby certify, as an authorized official of this company, that the required documents in Part 1 above were physically incorporated in our Agreement/Subcontract with the Contractor and give assurance that this company will fully comply or make every good faith effort to comply with the same. I further certify that:

1. This company recognizes that if this is a Federal-Aid Project, then this Contract is covered by the equal employment opportunity laws administered and enforced by the United States Department of Labor ("USDOL"), Office of Federal Contract Compliance Programs ('OFCCP"). By signing below, we acknowledge that this company has certain reporting obligations to the OFCCP, as specified by 41 CFR Part 60-4.2.
2. This company further acknowledges that any contractor with fifty (50) or more employees on a Federal-aid Contract with a value of fifty-thousand ($50,000) dollars or more must annually file an EEO-1 Report (SF 100) to the EEOC, Joint Reporting Committee, on or before September 30th, each year, as specified by 41 CFR Part 60-1.7a.
3. For more information regarding the federal reporting requirements, please contact the USDOL, OFCCP Regional Office, at 1-646-264-3170 or EEO-1, Joint Reporting Committee at 1-866-286-6440.
4. This company ☐ has, ☐ has not, participated in a previous contract or subcontract subject to the Equal Opportunity clauses set forth in 41 CFR Part 60-4 and Executive Order 11246, and where required, has filed with the Joint Reporting Committee, the Director of the Office of Federal Contract Compliance Programs or the EEO Commission all reports due under the applicable filing requirements.
5. This company is in full compliance with applicable Federal and Commonwealth of Massachusetts laws, rules, and regulations and is not currently debarred or disqualified from bidding on or participating in construction contracts in any jurisdiction of the United States. See : https://www.mass.gov/service-details/contractors-and-vendors-suspended-or-debarred-by-massdot
6. This company is properly registered and in good standing with the Office of the Secretary of the Commonwealth.

Signed this _____ Day of _____, 20_____, Under The Pains And Penalties Of Perjury.

Firm: _____
Address: _____
_____
_____
Telephone Number: _____
Federal I.D. Number: _____
Estimated Start Date: _____
Estimated Completion Date: _____
Estimated Dollar Amount: _____

_____
(Print Name and Title)

_____
(Authorized Signature)

_____
(Date)

Rev'd 09/02/22

*** END OF DOCUMENT ***

DOCUMENT 00860

COMMONWEALTH OF MASSACHUSETTS PUBLIC EMPLOYMENT LAWS

Revised February 20, 2019

The Contractor's attention is directed to Massachusetts General Laws, Chapter 149, Sections 26 through 27H, and 150A. This contract is considered to fall within the ambit of that law, which provides that in general, the Prevailing Rate or Total Rate must be paid to employees working on projects funded by the Commonwealth of Massachusetts or any political subdivision including Massachusetts Department of Transportation (MassDOT).

A Federal Aid project is also subject to the Federal Minimum Wage Rate law for construction. When comparing a state minimum wage rate, monitored by the Massachusetts Attorney General, versus federal minimum wage rate, monitored by the U.S. Department of Labor Wage and Hour Division, for a particular job classification the higher wage is at all times to be paid to the affected employee.

Every contractor or subcontractor engaged in this contract to which sections twenty-seven and twenty-seven A apply will keep a true and accurate record of all mechanics and apprentices, teamsters, chauffeurs and laborers employed thereon, showing the name, address and occupational classification of each such employee on this contract, and the hours worked by, and the wages paid to, each such employee, and shall furnish to the MassDOT's Resident Engineer, on a weekly basis, a copy of said record, in a form approved by MassDOT and in accordance with M.G.L. c. 149, § 27B, signed by the employer or his/her authorized agent under the penalties of perjury.

Each such contractor or subcontractor shall preserve its payroll records for a period of three years from the date of completion of the contract.

The Prevailing Wage Rate generally includes the following:

> Minimum Hourly Wage + Employer Contributions to Benefit Plans = Prevailing Wage Rate or Total Rate
>
> Any employer who does not make contributions to Benefit Plans must pay the total Prevailing Wage Rate directly to the employee.

Any deduction from the Prevailing Wage Rate or Total Rate for contributions to benefit plans can only be for a Health & Welfare, Pension, or Supplementary Unemployment plan meeting the requirements of the Employee Retirement Income Security Act (ERISA) of 1974. The maximum allowable deduction for these benefits from the prevailing wage rate cannot be greater than the amount allowed by Executive Office of Labor (EOL) for the specified benefits. Any additional expense of providing benefits to the employees is to be borne by the employer and cannot be deducted from the Minimum Hourly Wage. If the employer's benefit expense is less than that so provided by EOL the difference will be paid directly to the employee. The rate established must be paid to all employees who perform work on the project.

When an employer makes deductions from the Minimum Hourly Wage for an employee's contribution to social security, state taxes, federal taxes, and/or other contribution programs, allowed by law, the employer shall furnish each employee a suitable pay slip, check stub or envelope notifying the employee of the amount of the deductions.

No contractor or subcontractor contracting for any part of the contract week shall require or permit any laborer or mechanic to be employed on such work in excess of forty hours in any workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times his basic rate of pay for all hours worked in excess of forty hours in such workweek, whichever is the greater number of overtime hours.

Apprentice Rates are permitted only when there is an Apprentice Agreement registered with the Massachusetts Division of Apprentice Training in accordance with M.G.L. c. 23, § 11E-11L.

The Prevailing Wage Rates issued for each project shall be the rates paid for the entire project. The Prevailing Wage Rates must be posted on the job site at all times and be visible from a public way.

In addition, each such contractor and subcontractor shall furnish to the MassDOT's Resident Engineer, within fifteen days after completion of its portion of the work, a statement, executed by the contractor or subcontractor or by any authorized officer or employee of the contractor or subcontractor who supervises the payment of wages, in the following form:

STATEMENT OF COMPLIANCE

Date: _____

I , _____do hereby state:
(Name of signatory party) (Title)

That I pay or supervise the payment of the persons employed by:

_____
(Contractor or Subcontractor)

on the _____
(MassDOT Project Location and Contract Number)

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

Signature _____

Title _____

The above-mentioned copies of payroll records and statements of compliance shall be available for inspection by any interested party filing a written request to the MassDOT's Resident Engineer for such inspection and copying.

Massachusetts General Laws c. 149, §27, requires annual updates to prevailing wage schedules for all public construction contracts lasting longer than one year. MassDOT will request the required updates and furnish them to the Contractor. The Contractor is required to pay no less than the wage rates indicated on the annual updated wage schedules.

MassDOT will request the updates no later that two week before the anniversary of the Notice to Proceed date of the contract to allow for adequate processing by the Department of Labor Standards (DLS). The effective date for the new rates will be the anniversary date of the contract (i.e. the notice to proceed date), regardless of the date of issuance on the schedule from DLS.

All bidders are cautioned that the aforementioned laws require that employers pay to covered employees no less than the applicable minimum wages. In addition, the same laws require that the applicable prevailing wages become incorporated as part of this contract. The prevailing minimum wage law establishes serious civil and criminal penalties for violations, including imprisonment and exclusion from future public contracts. Bidders are cautioned to carefully read the relevant sections of the Massachusetts General Laws.

*** END OF DOCUMENT ***

DOCUMENT 00861

STATE PREVAILING WAGE RATES

Ashfield – State Prevailing Wage Rates..... 00861-3 through 36

Charlemont – State Prevailing Wage Rates..... 00861-37 through 70

Conway – State Prevailing Wage Rates..... 00861-71 through 104

Hawley – State Prevailing Wage Rates..... 00861-105 through 138

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

MAURA HEALEY
Governor
KIM DRISCOLL
Lt. Governor

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:	Massachusetts Highway	**City/Town:**	ASHFIELD
Contract Number:	135581		
Description of Work:	ASHFIELD-CHARLEMONT-CONWAY-HAWLEY – Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 1)		
Job Location:	Municipal Bridges at Multiple locations		

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 form 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.

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
(2 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$41.95	$16.17	$21.78	$0.00	$0.00	$79.90
	12/1/2026	$41.95	$16.17	$23.52	$0.00	$0.00	$81.64
	1/1/2027	$41.95	$16.77	$23.52	$0.00	$0.00	$82.24
(3 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.02	$16.17	$21.78	$0.00	$0.00	$79.97
	12/1/2026	$42.02	$16.17	$23.52	$0.00	$0.00	$81.71
	1/1/2027	$42.02	$16.77	$23.52	$0.00	$0.00	$82.31
(4 & 5 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.14	$16.17	$21.78	$0.00	$0.00	$80.09
	12/1/2026	$42.14	$16.17	$23.52	$0.00	$0.00	$81.83
	1/1/2027	$42.14	$16.77	$23.52	$0.00	$0.00	$82.43
ADS/SUBMERSIBLE PILOT PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3) For apprentice rates see "Apprentice- PILE DRIVER"	8/1/2024	$117.16	$10.08	$11.62	$12.67	$0.00	$151.53
AIR TRACK OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.97	$10.90	$9.75	$6.60	$0.00	$64.22
	12/1/2026	$39.39	$10.90	$9.75	$6.60	$0.00	$66.64
	6/1/2027	$40.79	$10.90	$9.75	$6.60	$0.00	$68.04
	12/1/2027	$42.19	$10.90	$9.75	$6.60	$0.00	$69.44
	6/1/2028	$43.69	$10.90	$9.75	$6.60	$0.00	$70.94
	12/1/2028	$45.19	$10.90	$9.75	$6.60	$0.00	$72.44
For apprentice rates see "Apprentice- LABORER"							
AIR TRACK OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY) For apprentice rates see "Apprentice- LABORER (Heavy and Highway)	6/1/2026	$37.75	$10.90	$9.75	$6.60	$0.00	$65.00
	12/1/2026	$39.04	$10.90	$9.75	$6.60	$0.00	$66.29
ASBESTOS WORKER (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)	12/1/2025	$40.32	$14.50	$4.30	$6.25	$0.00	$65.37
ASPHALT RAKER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
ASPHALT RAKER (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
AUTOMATIC GRADER-EXCAVATOR (RECLAIMER) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
BACKHOE/FRONT-END LOADER OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
BARCO-TYPE JUMPING TAMPER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
BATCH/CEMENT PLANT - ON SITE OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
BLOCK PAVER, RAMMER / CURB SETTER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.97	$10.90	$9.75	$6.60	$0.00	$64.22
	12/1/2026	$39.39	$10.90	$9.75	$6.60	$0.00	$66.64
	6/1/2027	$40.79	$10.90	$9.75	$6.60	$0.00	$68.04
	12/1/2027	$42.19	$10.90	$9.75	$6.60	$0.00	$69.44
	6/1/2028	$43.69	$10.90	$9.75	$6.60	$0.00	$70.94
	12/1/2028	$45.19	$10.90	$9.75	$6.60	$0.00	$72.44
For apprentice rates see "Apprentice- LABORER"							
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.75	$10.90	$9.75	$6.60	$0.00	$65.00
	12/1/2026	$39.04	$10.90	$9.75	$6.60	$0.00	$66.29
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
BOILER MAKER BOILERMAKERS LOCAL 29 BOILERMAKERS LOCAL 29	1/1/2024	$48.12	$7.07	$14.60	$6.00	$0.00	$75.79

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING) BRICKLAYERS LOCAL 3 BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)	2/1/2026	$56.36	$12.84	$15.57	$5.89	$0.00	$90.66
	8/1/2026	$58.56	$12.84	$15.57	$5.89	$0.00	$92.86
	2/1/2027	$59.96	$12.84	$15.57	$5.89	$0.00	$94.26

Apprentice: BOILER MAKER

Effective Date: 1/1/2024

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	65.00	$31.28	$7.07	$9.32	$3.90	$0.00	$51.57
2	65.00	$31.28	$7.07	$9.32	$3.90	$0.00	$51.57
3	70.00	$33.68	$7.07	$10.03	$4.20	$0.00	$54.98
4	75.00	$36.09	$7.07	$10.74	$4.50	$0.00	$58.40
5	80.00	$38.50	$7.07	$11.45	$4.80	$0.00	$61.82
6	85.00	$40.90	$7.07	$12.18	$5.10	$0.00	$65.25
7	90.00	$43.31	$7.07	$12.88	$5.40	$0.00	$68.66
8	95.00	$45.71	$7.07	$13.62	$5.70	$0.00	$72.10

Apprentice to Journeyworker Ratio: 1:4

Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$28.18	$12.84	$15.57	$5.89	$0.00	$62.48
2	60.00	$33.82	$12.84	$15.57	$5.89	$0.00	$68.12
3	70.00	$39.45	$12.84	$15.57	$5.89	$0.00	$73.75
4	80.00	$45.09	$12.84	$15.57	$5.89	$0.00	$79.39
5	90.00	$50.72	$12.84	$15.57	$5.89	$0.00	$85.02

Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)

Effective Date: 8/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$29.28	$12.84	$15.57	$5.89	$0.00	$63.58
2	60.00	$35.14	$12.84	$15.57	$5.89	$0.00	$69.44
3	70.00	$40.99	$12.84	$15.57	$5.89	$0.00	$75.29
4	80.00	$46.85	$12.84	$15.57	$5.89	$0.00	$81.15
5	90.00	$52.70	$12.84	$15.57	$5.89	$0.00	$87.00

Apprentice to Journeyworker Ratio: 1:5

BULLDOZER/POWER SHOVEL/TREE SHREDDER /CLAM SHELL OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
CAISSON & UNDERPINNING BOTTOM MAN LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$50.40	$10.90	$9.75	$9.80	$0.00	$80.85
	12/1/2026	$51.90	$10.90	$9.75	$9.80	$0.00	$82.35
For apprentice rates see "Apprentice- LABORER"							
CAISSON & UNDERPINNING LABORER LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$49.25	$10.90	$9.75	$9.80	$0.00	$79.70
	12/1/2026	$50.75	$10.90	$9.75	$9.80	$0.00	$81.20
For apprentice rates see "Apprentice- LABORER"							
CAISSON & UNDERPINNING TOP MAN LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$49.58	$10.90	$9.75	$9.80	$0.00	$80.03
	12/1/2026	$51.08	$10.90	$9.75	$9.80	$0.00	$81.53
For apprentice rates see "Apprentice- LABORER"							
CARBIDE CORE DRILL OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
CARPENTER CARPENTERS CARPENTERS LOCAL 336 - HAMPDEN HAMPSHIRE FRANKLIN	3/1/2026	$43.81	$9.19	$11.25	$6.90	$0.00	$71.15
	9/1/2026	$44.76	$9.19	$11.25	$6.90	$0.00	$72.10
	3/1/2027	$45.66	$9.19	$11.25	$6.90	$0.00	$73.00

Apprentice: CARPENTER

Effective Date: 3/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.71	$9.19	$0.00	$1.38	$0.00	$30.28
2	45.00	$19.71	$1.28	$0.00	$1.38	$0.00	$22.37
3	55.00	$24.10	$9.19	$0.00	$2.76	$0.00	$36.05
4	55.00	$24.10	$9.19	$0.00	$2.76	$0.00	$36.05
5	70.00	$30.67	$9.19	$11.25	$4.14	$0.00	$55.25
6	70.00	$30.67	$9.19	$11.25	$4.14	$0.00	$55.25
7	80.00	$35.05	$9.19	$11.25	$5.52	$0.00	$61.01
8	80.00	$35.05	$9.19	$11.25	$5.52	$0.00	$61.01

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
CARPENTER WOOD FRAME	10/1/2025	$27.37	$7.38	$4.47	$1.00	$0.00	$40.22
CARPENTERS	10/1/2026	$28.47	$7.38	$4.47	$1.00	$0.00	$41.32
CARPENTERS-ZONE 3 (Wood Frame)							

All Aspects of New Wood Frame Work

Apprentice: CARPENTER

Effective Date: 9/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$20.14	$9.19	$0.00	$1.38	$0.00	$30.71
2	45.00	$20.14	$9.19	$0.00	$1.38	$0.00	$30.71
3	55.00	$24.62	$9.19	$0.00	$2.76	$0.00	$36.57
4	55.00	$24.62	$9.19	$0.00	$2.76	$0.00	$36.57
5	70.00	$31.33	$9.19	$11.25	$4.14	$0.00	$55.91
6	70.00	$31.33	$9.19	$11.25	$4.14	$0.00	$55.91
7	80.00	$35.81	$9.19	$11.25	$5.52	$0.00	$61.77
8	80.00	$35.81	$9.19	$11.25	$5.52	$0.00	$61.77

Apprentice to Journeyworker Ratio: 1:5

Apprentice: CARPENTER WOOD FRAME

Effective Date: 10/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$16.42	$7.38	$0.00	$0.00	$0.00	$23.80
2	60.00	$16.42	$7.38	$0.00	$0.00	$0.00	$23.80
3	65.00	$17.79	$7.38	$0.00	$1.00	$0.00	$26.17
4	70.00	$19.16	$7.38	$0.00	$1.00	$0.00	$27.54
5	75.00	$20.53	$7.38	$3.80	$1.00	$0.00	$32.71
6	80.00	$21.90	$7.38	$3.80	$1.00	$0.00	$34.08
7	85.00	$23.26	$7.38	$3.80	$1.00	$0.00	$35.44
8	90.00	$24.63	$7.38	$3.80	$1.00	$0.00	$36.81

Apprentice: CARPENTER WOOD FRAME

Effective Date: 10/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$17.08	$7.38	$0.00	$0.00	$0.00	$24.46
2	60.00	$17.08	$7.38	$0.00	$0.00	$0.00	$24.46
3	65.00	$18.51	$7.38	$0.00	$1.00	$0.00	$26.89
4	70.00	$19.93	$7.38	$0.00	$1.00	$0.00	$28.31
5	75.00	$21.35	$7.38	$3.80	$1.00	$0.00	$33.53
6	80.00	$22.78	$7.38	$3.80	$1.00	$0.00	$34.96
7	85.00	$24.20	$7.38	$3.80	$1.00	$0.00	$36.38
8	90.00	$25.62	$7.38	$3.80	$1.00	$0.00	$37.80

Apprentice to Journeyworker Ratio: 1:5

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
CEMENT MASONRY/PLASTERING	7/1/2026	$49.32	$13.20	$16.30	$2.93	$1.69	$83.44
PLASTERERS AND CEMENT MASONS LOCAL 534	1/1/2027	$50.51	$13.20	$16.30	$2.93	$1.69	$84.63
Plasterers and Cement Masons - Zone 2	7/1/2027	$51.70	$13.20	$16.30	$2.93	$1.69	$85.82
	1/1/2028	$52.89	$13.20	$16.30	$2.93	$1.69	$87.01

Apprentice: CEMENT MASONRY/PLASTERING

Effective Date: 7/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$24.66	$13.20	$16.30	$0.00	$0.00	$54.16
2	60.00	$29.59	$13.20	$16.30	$2.93	$1.69	$63.71
3	65.00	$32.06	$13.20	$16.30	$2.93	$1.69	$66.18
4	70.00	$34.52	$13.20	$16.30	$2.93	$1.69	$68.64
5	75.00	$36.99	$13.20	$16.30	$2.93	$1.69	$71.11
6	80.00	$39.46	$13.20	$16.30	$2.93	$1.69	$73.58
7	90.00	$44.39	$13.20	$16.30	$2.93	$0.00	$76.82

Apprentice: CEMENT MASONRY/PLASTERING

Effective Date: 1/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$25.26	$16.30	$16.30	$0.00	$0.00	$57.86
2	60.00	$30.31	$16.30	$16.30	$2.93	$1.69	$67.53
3	65.00	$32.83	$16.30	$16.30	$2.93	$1.69	$70.05
4	70.00	$35.36	$16.30	$16.30	$2.93	$1.69	$72.58
5	75.00	$37.88	$16.30	$16.30	$2.93	$1.69	$75.10
6	80.00	$40.41	$16.30	$16.30	$2.93	$1.69	$77.63
7	90.00	$45.46	$16.30	$16.30	$2.93	$0.00	$80.99

Apprentice to Journeyworker Ratio: 1:5

CHAIN SAW OPERATOR	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
LABORERS	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19

For apprentice rates see "Apprentice- LABORER"

COMPRESSOR OPERATOR	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
CRANE OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$43.06	$13.78	$12.15	$3.00	$0.00	$71.99
DELEADER (BRIDGE) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$59.56	$10.35	$12.00	$12.60	$0.00	$94.51

Apprentice: DELEADER (BRIDGE)

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$29.78	$10.35	$0.00	$0.00	$0.00	$40.13
2	55.00	$32.76	$10.35	$0.00	$6.93	$0.00	$50.04
3	60.00	$35.74	$10.35	$0.00	$7.56	$0.00	$53.65
4	65.00	$38.71	$10.35	$0.00	$8.19	$0.00	$57.25
5	70.00	$41.69	$10.35	$12.00	$8.82	$0.00	$72.86
6	75.00	$44.67	$10.35	$12.00	$9.45	$0.00	$76.47
7	80.00	$47.65	$10.35	$12.00	$10.08	$0.00	$80.08
8	90.00	$53.60	$10.35	$12.00	$11.34	$0.00	$87.29

Apprentice to Journeyworker Ratio: 1:1

DEMO: ADZEMAN LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$49.30	$10.90	$9.75	$9.65	$0.00	$79.60
	12/7/2026	$50.80	$10.90	$9.75	$9.65	$0.00	$81.10
	6/7/2027	$52.40	$10.90	$9.75	$9.65	$0.00	$82.70
	12/6/2027	$54.00	$10.90	$9.75	$9.65	$0.00	$84.30
	6/5/2028	$55.68	$10.90	$9.75	$9.65	$0.00	$85.98
	12/4/2028	$57.35	$10.90	$9.75	$9.65	$0.00	$87.65
DEMO: BACKHOE/LOADER/HAMMER OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$50.30	$10.90	$9.75	$9.65	$0.00	$80.60
	12/7/2026	$51.80	$10.90	$9.75	$9.65	$0.00	$82.10
	6/7/2027	$53.40	$10.90	$9.75	$9.65	$0.00	$83.70
	12/6/2027	$55.00	$10.90	$9.75	$9.65	$0.00	$85.30
	6/5/2028	$56.68	$10.90	$9.75	$9.65	$0.00	$86.98
	12/4/2028	$58.35	$10.90	$9.75	$9.65	$0.00	$88.65
DEMO: BURNERS LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$50.05	$10.90	$9.75	$9.65	$0.00	$80.35
	12/7/2026	$51.55	$10.90	$9.75	$9.65	$0.00	$81.85
	6/7/2027	$53.15	$10.90	$9.75	$9.65	$0.00	$83.45
	12/6/2027	$54.75	$10.90	$9.75	$9.65	$0.00	$85.05
	6/5/2028	$56.43	$10.90	$9.75	$9.65	$0.00	$86.73
	12/4/2028	$58.10	$10.90	$9.75	$9.65	$0.00	$88.40

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LABORER"							
DEMO: CONCRETE CUTTER/SAWYER	6/1/2026	$50.30	$10.90	$9.75	$9.65	$0.00	$80.60
LABORERS	12/7/2026	$51.80	$10.90	$9.75	$9.65	$0.00	$82.10
LABORERS - ZONE 4 (BUILDING & SITE)	6/7/2027	$53.40	$10.90	$9.75	$9.65	$0.00	$83.70
	12/6/2027	$55.00	$10.90	$9.75	$9.65	$0.00	$85.30
	6/5/2028	$56.68	$10.90	$9.75	$9.65	$0.00	$86.98
	12/4/2028	$58.35	$10.90	$9.75	$9.65	$0.00	$88.65
For apprentice rates see "Apprentice- LABORER"							
DEMO: JACKHAMMER OPERATOR	6/1/2026	$50.05	$10.90	$9.75	$9.65	$0.00	$80.35
LABORERS	12/7/2026	$51.55	$10.90	$9.75	$9.65	$0.00	$81.85
LABORERS - ZONE 4 (BUILDING & SITE)	6/7/2027	$53.15	$10.90	$9.75	$9.65	$0.00	$83.45
	12/6/2027	$54.75	$10.90	$9.75	$9.65	$0.00	$85.05
	6/5/2028	$56.43	$10.90	$9.75	$9.65	$0.00	$86.73
	12/4/2028	$58.10	$10.90	$9.75	$9.65	$0.00	$88.40
For apprentice rates see "Apprentice- LABORER"							
DEMO: WRECKING LABORER	6/1/2026	$49.30	$10.90	$9.75	$9.65	$0.00	$79.60
LABORERS	12/7/2026	$50.80	$10.90	$9.75	$9.65	$0.00	$81.10
LABORERS - ZONE 4 (BUILDING & SITE)	6/7/2027	$52.40	$10.90	$9.75	$9.65	$0.00	$82.70
	12/6/2027	$54.00	$10.90	$9.75	$9.65	$0.00	$84.30
	6/5/2028	$55.68	$10.90	$9.75	$9.65	$0.00	$85.98
	12/4/2028	$57.35	$10.90	$9.75	$9.65	$0.00	$87.65
For apprentice rates see "Apprentice- LABORER"							
DIVER	8/1/2024	$78.11	$10.08	$11.62	$12.67	$0.00	$112.48
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Diver wage 70/80/90 2A $69.83, 3A $91.79,4A $102.14 Total Rate							
DIVER TENDER	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Piledriver wage 70/80/90 2A $54.20, 3A $73.93,4A $82.05 Total Rate							
DIVER TENDER (EFFLUENT)	8/1/2024	$83.69	$10.08	$11.62	$12.67	$0.00	$118.06
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
For apprentice rates see "Apprentice- PILE DRIVER"							
DIVER/SLURRY (EFFLUENT)	8/1/2024	$117.16	$10.08	$11.62	$12.67	$0.00	$151.53
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
For apprentice rates see "Apprentice- PILE DRIVER"							
DRAWBRIDGE OPERATOR (Construction)	7/1/2020	$26.77	$6.67	$3.93	$0.00	$0.16	$37.53
DRAWBRIDGE - SEIU LOCAL 888							
DRAWBRIDGE - SEIU LOCAL 888							
ELECTRICIAN (Including Core Drilling)	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
ELECTRICIANS LOCAL 7	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
ELECTRICIANS LOCAL 7							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
ELEVATOR CONSTRUCTOR ELEVATOR CONSTRUCTORS LOCAL 41 ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2026	$69.23	$16.38	$11.06	$10.70	$0.00	$107.37
	1/1/2027	$72.23	$16.48	$11.16	$11.00	$0.00	$110.87

Apprentice: ELECTRICIAN (Including Core Drilling)

Effective Date: 6/28/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	$21.76	$7.80	$0.63	$0.00	$0.00	$30.19
2	45.00	$24.48	$7.80	$0.70	$0.00	$0.00	$32.98
3	50.00	$27.21	$14.00	$7.53	$0.00	$0.00	$48.74
4	55.00	$29.93	$14.00	$7.61	$0.00	$0.00	$51.54
5	65.00	$35.37	$14.00	$9.84	$0.00	$0.00	$59.21
6	70.00	$38.09	$14.00	$11.30	$0.00	$0.00	$63.39

Apprentice: ELECTRICIAN (Including Core Drilling)

Effective Date: 1/3/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	$22.22	$7.95	$0.63	$0.00	$0.00	$30.80
2	45.00	$25.00	$7.95	$0.70	$0.00	$0.00	$33.65
3	50.00	$27.78	$14.25	$7.53	$0.00	$0.00	$49.56
4	55.00	$30.56	$14.25	$7.61	$0.00	$0.00	$52.42
5	65.00	$36.11	$14.25	$9.84	$0.00	$0.00	$60.20
6	70.00	$38.89	$14.25	$11.30	$0.00	$0.00	$64.44

Apprentice to Journeyworker Ratio: 2:3

Apprentice: ELEVATOR CONSTRUCTOR

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$34.62	$16.38	$0.00	$0.00	$0.00	$51.00
2	55.00	$38.08	$16.38	$11.06	$10.70	$0.00	$76.22
3	65.00	$45.00	$16.38	$11.06	$10.70	$0.00	$83.14
4	70.00	$48.46	$16.38	$11.06	$10.70	$0.00	$86.60
5	80.00	$55.38	$16.38	$11.06	$10.70	$0.00	$93.52

Apprentice: ELEVATOR CONSTRUCTOR

Effective Date: 1/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$36.12	$16.48	$0.00	$0.00	$0.00	$52.60
2	55.00	$39.73	$16.48	$11.16	$11.00	$0.00	$78.37
3	65.00	$46.95	$16.48	$11.16	$11.00	$0.00	$85.59

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: ELEVATOR CONSTRUCTOR							
Effective Date: 1/1/2027							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
4 / 70.00		$50.56	$16.48	$11.16	$11.00	$0.00	$89.20
5 / 80.00		$57.78	$16.48	$11.16	$11.00	$0.00	$96.42
Apprentice to Journeyworker Ratio: 1:1							
ELEVATOR CONSTRUCTOR HELPER ELEVATOR CONSTRUCTORS LOCAL 41 ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2026	$48.46	$16.38	$11.06	$10.70	$0.00	$86.60
	1/1/2027	$50.56	$16.48	$11.16	$11.00	$0.00	$89.20
For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"							
FENCE & BEAM RAIL ERECTOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$44.69	$10.90	$9.75	$6.60	$0.00	$71.94
For apprentice rates see "Apprentice- LABORER"							
FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
FIELD ENG.INST/ROD-BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$18.84	$4.80	$4.10	$0.00	$0.00	$27.74
FIELD ENG.PARTY CHIEF:BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$21.33	$4.80	$4.10	$0.00	$0.00	$30.23
FIELD ENG.SURVEY CHIEF-BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$22.33	$4.80	$4.10	$0.00	$0.00	$31.23
FIRE ALARM INSTALLER ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- ELECTRICIAN"							
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"							
FIREMAN OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: FIREMAN

Effective Date: 12/1/2023

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$23.42	$13.78	$12.15	$3.00	$0.00	$52.35
2	70.00	$27.32	$13.78	$12.15	$3.00	$0.00	$56.25
3	80.00	$31.22	$13.78	$12.15	$3.00	$0.00	$60.15
4	90.00	$35.13	$13.78	$12.15	$3.00	$0.00	$64.06

Apprentice to Journeyworker Ratio: 1:6

FLAGGER & SIGNALER (HEAVY & HIGHWAY)	6/1/2026	$29.21	$10.90	$9.75	$6.60	$0.00	$56.46
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$29.21	$10.90	$9.75	$6.60	$0.00	$56.46
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
FLOORCOVERER	3/1/2026	$44.34	$8.56	$11.25	$6.90	$0.00	$71.05
FLOORCOVERERS LOCAL 2168 FLOORCOVERERS LOCAL 2168 ZONE III	9/1/2026	$45.29	$8.56	$11.25	$6.90	$0.00	$72.00
	3/1/2027	$46.19	$8.56	$11.25	$6.90	$0.00	$72.90

Apprentice: FLOORCOVERER

Effective Date: 3/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.95	$8.56	$0.00	$1.38	$0.00	$29.89
2	45.00	$19.95	$8.56	$0.00	$1.38	$0.00	$29.89
3	55.00	$24.39	$8.56	$0.00	$2.76	$0.00	$35.71
4	55.00	$24.39	$8.56	$0.00	$2.76	$0.00	$35.71
5	70.00	$31.04	$8.56	$11.25	$4.14	$0.00	$54.99
6	70.00	$31.04	$8.56	$11.25	$4.14	$0.00	$54.99
7	80.00	$35.47	$8.56	$11.25	$5.52	$0.00	$60.80
8	80.00	$35.47	$8.56	$11.25	$5.52	$0.00	$60.80

Apprentice: FLOORCOVERER

Effective Date: 9/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$20.38	$8.56	$0.00	$1.38	$0.00	$30.32
2	45.00	$20.38	$8.56	$0.00	$1.38	$0.00	$30.32
3	55.00	$24.91	$8.56	$0.00	$2.76	$0.00	$36.23
4	55.00	$24.91	$8.56	$0.00	$2.76	$0.00	$36.23
5	70.00	$31.70	$8.56	$11.25	$4.14	$0.00	$55.65
6	70.00	$31.70	$8.56	$11.25	$4.14	$0.00	$55.65
7	80.00	$36.23	$8.56	$11.25	$5.52	$0.00	$61.56
8	80.00	$36.23	$8.56	$11.25	$5.52	$0.00	$61.56

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice Notes

Steps are 750 hrs.

Apprentice to Journeyworker Ratio: 1:1

FORK LIFT OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.25	$13.78	$12.15	$3.00	$0.00	$68.18
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
GENERATORS/LIGHTING PLANTS OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$35.80	$13.78	$12.15	$3.00	$0.00	$64.73
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) GLAZIERS LOCAL 1333 GLAZIERS LOCAL 1333	6/1/2026	$44.73	$11.20	$8.40	$6.05	$0.00	$70.38
	6/1/2027	$46.73	$11.60	$8.55	$6.60	$0.00	$73.48
	6/1/2028	$48.73	$12.00	$8.70	$7.20	$0.00	$76.63

Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)

Effective Date: 6/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$22.37	$11.20	$8.40	$6.05	$0.00	$48.02
2	56.25	$25.16	$11.20	$8.40	$6.05	$0.00	$50.81
3	62.50	$27.96	$11.20	$8.40	$6.05	$0.00	$53.61
4	68.75	$30.75	$11.20	$8.40	$6.05	$0.00	$56.40
5	75.00	$33.55	$11.20	$8.40	$6.05	$0.00	$59.20
6	81.25	$36.34	$11.20	$8.40	$6.05	$0.00	$61.99
7	87.50	$39.14	$11.20	$8.40	$6.05	$0.00	$64.79
8	93.75	$41.93	$11.20	$8.40	$6.05	$0.00	$67.58

Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)

Effective Date: 6/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$23.37	$11.60	$8.55	$6.60	$0.00	$50.12
2	56.25	$26.29	$11.60	$8.55	$6.60	$0.00	$53.04
3	62.50	$29.21	$11.60	$8.55	$6.60	$0.00	$55.96
4	68.75	$32.13	$11.60	$8.55	$6.60	$0.00	$58.88
5	75.00	$35.05	$11.60	$8.55	$6.60	$0.00	$61.80
6	81.25	$37.97	$11.60	$8.55	$6.60	$0.00	$64.72
7	87.50	$40.89	$11.60	$8.55	$6.60	$0.00	$67.64
8	93.75	$43.81	$11.60	$8.55	$6.60	$0.00	$70.56

Apprentice to Journeyworker Ratio: 3:1

GRADER/TRENCHING MACHINE/DERRICK	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
HVAC (DUCTWORK) SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	$43.48	$13.24	$11.01	$9.92	$2.13	$79.78
	1/1/2027	$43.48	$13.54	$11.01	$11.12	$2.13	$81.28
	7/1/2027	$44.98	$13.54	$11.01	$11.12	$2.13	$82.78
	1/1/2028	$46.48	$13.54	$11.01	$11.12	$2.13	$84.28
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- ELECTRICIAN"							
HVAC (TESTING AND BALANCING - AIR) SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	$43.48	$13.24	$11.01	$9.92	$2.13	$79.78
	1/1/2027	$43.48	$13.54	$11.01	$11.12	$2.13	$81.28
	7/1/2027	$44.98	$13.54	$11.01	$11.12	$2.13	$82.78
	1/1/2028	$46.48	$13.54	$11.01	$11.12	$2.13	$84.28
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (TESTING AND BALANCING -WATER) PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HVAC MECHANIC PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HYDRAULIC DRILLS (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.75	$10.90	$9.75	$6.60	$0.00	$65.00
	12/1/2026	$39.04	$10.90	$9.75	$6.60	$0.00	$66.29
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
INSULATOR (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)	9/1/2025	$48.27	$14.75	$9.52	$10.09	$0.00	$82.63
	9/1/2026	$51.01	$14.75	$9.52	$10.09	$0.00	$85.37

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: INSULATOR (PIPES & TANKS)

Effective Date: 9/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$24.14	$14.75	$9.27	$5.05	$0.00	$53.21
2	60.00	$28.96	$14.75	$9.32	$6.05	$0.00	$59.08
3	70.00	$33.79	$14.75	$9.37	$7.06	$0.00	$64.97
4	80.00	$38.62	$14.75	$9.42	$8.07	$0.00	$70.86

Apprentice: INSULATOR (PIPES & TANKS)

Effective Date: 9/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$25.51	$14.75	$9.27	$5.05	$0.00	$54.58
2	60.00	$30.61	$14.75	$9.32	$6.05	$0.00	$60.73
3	70.00	$35.71	$14.75	$9.37	$7.06	$0.00	$66.89
4	80.00	$40.81	$14.75	$9.42	$8.07	$0.00	$73.05

Apprentice to Journeyworker Ratio: 1:4

IRONWORKER/WELDER IRONWORKERS LOCAL 7 IRONWORKERS LOCAL 7 (SPRINGFIELD AREA)	3/16/2026	$42.46	$9.25	$12.75	$11.25	$0.00	$75.71

Apprentice: IRONWORKER/WELDER

Effective Date: 3/16/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	70.00	$29.72	$9.25	$12.75	$1.25	$0.00	$52.97
2	80.00	$33.97	$9.25	$12.75	$1.25	$0.00	$57.22
3	90.00	$38.21	$9.25	$12.75	$1.25	$0.00	$61.46
4	0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
5	0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
6	0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

Apprentice to Journeyworker Ratio: 1:4

JACKHAMMER & PAVING BREAKER OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19

For apprentice rates see "Apprentice- LABORER"

LABORER	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
LABORERS	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69

Apprentice: LABORER

Effective Date: 6/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$21.73	$10.90	$9.75	$6.60	$0.00	$48.98
2	70.00	$25.35	$10.90	$9.75	$6.60	$0.00	$52.60
3	80.00	$28.98	$10.90	$9.75	$6.60	$0.00	$56.23
4	90.00	$32.60	$10.90	$9.75	$6.60	$0.00	$59.85

Apprentice: LABORER

Effective Date: 12/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$23.18	$10.90	$9.75	$6.60	$0.00	$50.43
2	70.00	$27.05	$10.90	$9.75	$6.60	$0.00	$54.30
3	80.00	$30.91	$10.90	$9.75	$6.60	$0.00	$58.16
4	90.00	$34.78	$10.90	$9.75	$6.60	$0.00	$62.03

Apprentice to Journeyworker Ratio: 1:5

LABORER (HEAVY & HIGHWAY)	6/1/2026	$37.00	$10.90	$9.75	$6.60	$0.00	$64.25
LABORERS	12/1/2026	$38.29	$10.90	$9.75	$6.60	$0.00	$65.54
LABORERS - ZONE 4 (HEAVY & HIGHWAY)							

Apprentice: LABORER (HEAVY & HIGHWAY)

Effective Date: 6/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$22.20	$10.90	$9.75	$6.60	$0.00	$49.45
2	70.00	$25.90	$10.90	$9.75	$6.60	$0.00	$53.15
3	80.00	$29.60	$10.90	$9.75	$6.60	$0.00	$56.85
4	90.00	$33.30	$10.90	$9.75	$6.60	$0.00	$60.55

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: LABORER (HEAVY & HIGHWAY)

Effective Date: 12/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$22.97	$10.90	$9.75	$6.60	$0.00	$50.22
2	70.00	$26.80	$10.90	$9.75	$6.60	$0.00	$54.05
3	80.00	$30.63	$10.90	$9.75	$6.60	$0.00	$57.88
4	90.00	$34.46	$10.90	$9.75	$6.60	$0.00	$61.71

Apprentice to Journeyworker Ratio: 1:5

LABORER: CARPENTER TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: CEMENT FINISHER TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$35.67	$10.90	$9.75	$5.41	$0.00	$61.73
	12/1/2026	$36.96	$10.90	$9.75	$5.41	$0.00	$63.02
	6/1/2027	$38.26	$10.90	$9.75	$5.41	$0.00	$64.32
	12/1/2027	$39.56	$10.90	$9.75	$5.41	$0.00	$65.62
	6/5/2028	$40.91	$10.90	$9.75	$5.41	$0.00	$66.97
	12/4/2028	$42.26	$10.90	$9.75	$5.41	$0.00	$68.32
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$38.22	$10.90	$9.75	$6.60	$0.00	$65.47
	12/1/2026	$40.64	$10.90	$9.75	$6.60	$0.00	$67.89
	6/1/2027	$42.04	$10.90	$9.75	$6.60	$0.00	$69.29
	12/1/2027	$43.44	$10.90	$9.75	$6.60	$0.00	$70.69
	6/1/2028	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
	12/1/2028	$46.44	$10.90	$9.75	$6.60	$0.00	$73.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
LABORER: MULTI-TRADE TENDER	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: TREE REMOVER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
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 LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
LASER BEAM OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
MARBLE & TILE FINISHERS BRICKLAYERS LOCAL 3 BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/1/2026	$45.56	$12.84	$15.10	$5.41	$0.00	$78.91
	8/1/2026	$47.32	$12.84	$15.10	$5.41	$0.00	$80.67
	2/1/2027	$48.44	$12.84	$15.10	$5.41	$0.00	$81.79

Apprentice: MARBLE & TILE FINISHERS

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$22.78	$12.84	$15.10	$5.41	$0.00	$56.13
2	60.00	$27.34	$12.84	$15.10	$5.41	$0.00	$60.69
3	70.00	$31.89	$12.84	$15.10	$5.41	$0.00	$65.24
4	80.00	$36.45	$12.84	$15.10	$5.41	$0.00	$69.80
5	90.00	$41.00	$12.84	$15.10	$5.41	$0.00	$74.35

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: MARBLE & TILE FINISHERS

Effective Date: 8/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$23.66	$12.84	$15.10	$5.41	$0.00	$57.01
2	60.00	$28.39	$12.84	$15.10	$5.41	$0.00	$61.74
3	70.00	$33.12	$12.84	$15.10	$5.41	$0.00	$66.47
4	80.00	$37.86	$12.84	$15.10	$5.41	$0.00	$71.21
5	90.00	$42.59	$12.84	$15.10	$5.41	$0.00	$75.94

Apprentice to Journeyworker Ratio: 1:5

MECH. SWEEPER OPERATOR (ON CONST. SITES) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
MECHANIC/WELDER/BOOM TRUCK OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
MILLWRIGHT (Zone 3) MILLWRIGHTS LOCAL 1121 MILLWRIGHTS LOCAL 1121 - Zone 3	1/5/2026	$45.20	$10.58	$11.47	$9.75	$0.00	$77.00

Apprentice: MILLWRIGHT (Zone 3)

Effective Date: 1/5/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	55.00	$24.86	$10.58	$0.00	$5.36	$0.00	$40.80
2	65.00	$29.38	$10.58	$0.00	$6.34	$0.00	$46.30
3	75.00	$33.90	$10.58	$11.47	$7.31	$0.00	$63.26
4	85.00	$38.42	$10.58	$11.47	$8.29	$0.00	$68.76

Apprentice Notes

Step 1&2 Appr. indentured after 1/6/2020 receive no pension,

Apprentice to Journeyworker Ratio: 1:4

MORTAR MIXER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19

For apprentice rates see "Apprentice- LABORER"

OILER OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$35.02	$13.78	$12.15	$3.00	$0.00	$63.95

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

OTHER POWER DRIVEN EQUIPMENT - CLASS VI OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$32.74	$13.78	$12.15	$3.00	$0.00	$61.67

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

PAINTER (BRIDGES/TANKS) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$59.56	$10.35	$12.00	$12.60	$0.00	$94.51

Apprentice: PAINTER (BRIDGES/TANKS)

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$29.78	$10.35	$0.00	$0.00	$0.00	$40.13
2	55.00	$32.76	$10.35	$0.00	$6.93	$0.00	$50.04
3	60.00	$35.74	$10.35	$0.00	$7.56	$0.00	$53.65
4	65.00	$38.71	$10.35	$0.00	$8.19	$0.00	$57.25
5	70.00	$41.69	$10.35	$12.00	$8.82	$0.00	$72.86
6	75.00	$44.67	$10.35	$12.00	$9.45	$0.00	$76.47
7	80.00	$47.65	$10.35	$12.00	$10.08	$0.00	$80.08
8	90.00	$53.60	$10.35	$12.00	$11.34	$0.00	$87.29

Apprentice to Journeyworker Ratio: 1:1

PAINTER (SPRAY OR SANDBLAST, NEW) * * If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$42.03	$10.35	$12.00	$8.35	$0.00	$72.73

Apprentice: PAINTER (SPRAY OR SANDBLAST, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$21.02	$10.35	$0.00	$0.00	$0.00	$31.37
2	55.00	$23.12	$10.35	$0.00	$4.59	$0.00	$38.06
3	60.00	$25.22	$10.35	$0.00	$5.01	$0.00	$40.58

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: PAINTER (SPRAY OR SANDBLAST, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
4	65.00	$27.32	$10.35	$0.00	$5.43	$0.00	$43.10
5	70.00	$29.42	$10.35	$12.00	$5.85	$0.00	$57.62
6	75.00	$31.52	$10.35	$12.00	$6.26	$0.00	$60.13
7	80.00	$33.62	$10.35	$12.00	$6.68	$0.00	$62.65
8	90.00	$37.83	$10.35	$12.00	$7.52	$0.00	$67.70

Apprentice to Journeyworker Ratio: 1:1

PAINTER (SPRAY OR SANDBLAST, REPAINT) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$39.35	$10.35	$12.00	$8.35	$0.00	$70.05

Apprentice: PAINTER (SPRAY OR SANDBLAST, REPAINT)

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$19.68	$10.35	$0.00	$0.00	$0.00	$30.03
2	55.00	$21.64	$10.35	$0.00	$4.59	$0.00	$36.58
3	60.00	$23.61	$10.35	$0.00	$5.01	$0.00	$38.97
4	65.00	$25.58	$10.35	$0.00	$5.43	$0.00	$41.36
5	70.00	$27.55	$10.35	$12.00	$5.85	$0.00	$55.75
6	75.00	$29.51	$10.35	$12.00	$6.26	$0.00	$58.12
7	80.00	$31.48	$10.35	$12.00	$6.68	$0.00	$60.51
8	90.00	$35.42	$10.35	$12.00	$7.52	$0.00	$65.29

Apprentice to Journeyworker Ratio: 1:1

PAINTER / TAPER (BRUSH, NEW) * * If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$40.63	$10.35	$12.00	$8.35	$0.00	$71.33

Apprentice: PAINTER / TAPER (BRUSH, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$20.32	$10.35	$0.00	$0.00	$0.00	$30.67
2	55.00	$22.35	$10.35	$0.00	$4.59	$0.00	$37.29
3	60.00	$24.38	$10.35	$0.00	$5.01	$0.00	$39.74
4	65.00	$26.41	$10.35	$0.00	$5.43	$0.00	$42.19
5	70.00	$28.44	$10.35	$12.00	$5.85	$0.00	$56.64
6	75.00	$30.47	$10.35	$12.00	$6.26	$0.00	$59.08
7	80.00	$32.50	$10.35	$12.00	$6.68	$0.00	$61.53

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: PAINTER / TAPER (BRUSH, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
8	90.00	$36.57	$10.35	$12.00	$7.52	$0.00	$66.44

Apprentice to Journeyworker Ratio: 1:1

PAINTER / TAPER (BRUSH, REPAINT) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$37.95	$10.35	$12.00	$8.35	$0.00	$68.65

Apprentice: PAINTER / TAPER (BRUSH, REPAINT)

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$18.98	$10.35	$0.00	$0.00	$0.00	$29.33
2	55.00	$20.87	$10.35	$0.00	$4.59	$0.00	$35.81
3	60.00	$22.77	$10.35	$0.00	$5.01	$0.00	$38.13
4	65.00	$24.67	$10.35	$0.00	$5.43	$0.00	$40.45
5	70.00	$26.57	$10.35	$12.00	$5.85	$0.00	$54.77
6	75.00	$28.46	$10.35	$12.00	$6.26	$0.00	$57.07
7	80.00	$30.36	$10.35	$12.00	$6.68	$0.00	$59.39
8	90.00	$34.16	$10.35	$12.00	$7.52	$0.00	$64.03

Apprentice to Journeyworker Ratio: 1:1

PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.00	$10.90	$9.75	$6.60	$0.00	$64.25
	12/1/2026	$38.29	$10.90	$9.75	$6.60	$0.00	$65.54
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
PANEL & PICKUP TRUCKS DRIVER TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$41.78	$16.17	$21.78	$0.00	$0.00	$79.73
	12/1/2026	$41.78	$16.17	$23.52	$0.00	$0.00	$81.47
	1/1/2027	$41.78	$16.77	$23.52	$0.00	$0.00	$82.07
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK) PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
For apprentice rates see "Apprentice- PILE DRIVER"							
PILE DRIVER PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56

Apprentice: PILE DRIVER

Effective Date: 8/1/2024

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: PILE DRIVER							
Effective Date: 8/1/2024							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
1 / 45.00		$22.14	$10.08	$0.00	$2.53	$0.00	$34.75
2 / 55.00		$27.05	$10.08	$0.00	$5.07	$0.00	$42.20
3 / 70.00		$34.43	$10.08	$11.62	$7.60	$0.00	$63.73
4 / 80.00		$39.35	$10.08	$11.62	$10.14	$0.00	$71.19
Apprentice to Journeyworker Ratio: 1:5							
PIPELAYER	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
PIPELAYER (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PLUMBER & PIPEFITTER	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
Apprentice: PLUMBER & PIPEFITTER							
Effective Date: 3/17/2026							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
1 / 45.00		$23.74	$13.50	$10.85	$0.00	$0.00	$48.09
2 / 50.00		$26.38	$13.50	$10.85	$0.00	$0.00	$50.73
3 / 55.00		$29.02	$13.50	$10.85	$0.00	$0.00	$53.37
4 / 60.00		$31.66	$13.50	$10.85	$0.00	$0.00	$56.01

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: PLUMBER & PIPEFITTER

Effective Date: 3/17/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
5	65.00	$34.29	$13.50	$10.85	$0.00	$0.00	$58.64
6	70.00	$36.93	$13.50	$10.85	$0.00	$0.00	$61.28
7	75.00	$39.57	$13.50	$10.85	$0.00	$0.00	$63.92
8	80.00	$42.21	$13.50	$10.85	$0.00	$0.00	$66.56
9	85.00	$44.85	$13.50	$10.85	$7.10	$0.00	$76.30
10	85.00	$44.85	$13.50	$10.85	$7.10	$0.00	$76.30

Apprentice: PLUMBER & PIPEFITTER

Effective Date: 9/17/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$24.64	$13.50	$0.00	$0.00	$0.00	$38.14
2	50.00	$27.38	$13.50	$0.00	$0.00	$0.00	$40.88
3	55.00	$30.12	$13.50	$0.00	$0.00	$0.00	$43.62
4	60.00	$32.86	$13.50	$0.00	$0.00	$0.00	$46.36
5	65.00	$35.59	$13.50	$0.00	$0.00	$0.00	$49.09
6	70.00	$38.33	$13.50	$0.00	$0.00	$0.00	$51.83
7	75.00	$41.07	$13.50	$0.00	$0.00	$0.00	$54.57
8	80.00	$43.81	$13.50	$0.00	$0.00	$0.00	$57.31
9	85.00	$46.55	$13.50	$0.00	$7.10	$0.00	$67.15
10	85.00	$46.55	$13.50	$0.00	$7.10	$0.00	$67.15

Apprentice Notes

**1:1,2:5,3:9,4:12

Apprentice to Journeyworker Ratio: 1:1

PNEUMATIC CONTROLS (TEMP.) PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
POWDERMAN & BLASTER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$37.22	$10.90	$9.75	$6.60	$0.00	$64.47
	12/1/2026	$39.64	$10.90	$9.75	$6.60	$0.00	$66.89
	6/1/2027	$41.04	$10.90	$9.75	$6.60	$0.00	$68.29

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	12/1/2027	$42.44	$10.90	$9.75	$6.60	$0.00	$69.69
	6/1/2028	$43.94	$10.90	$9.75	$6.60	$0.00	$71.19
	12/1/2028	$45.44	$10.90	$9.75	$6.60	$0.00	$72.69
For apprentice rates see "Apprentice- LABORER"							
POWDERMAN & BLASTER (HEAVY & HIGHWAY)	6/1/2026	$38.00	$10.90	$9.75	$6.60	$0.00	$65.25
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$39.29	$10.90	$9.75	$6.60	$0.00	$66.54
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PUMP OPERATOR (CONCRETE) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
PUMP OPERATOR (DEWATERING, OTHER) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
READY-MIX CONCRETE DRIVER TEAMSTERS 404 - Construction Service (Northampton) TEAMSTERS 404 - Construction Service (Northampton)	5/1/2024	$26.14	$11.82	$7.25	$0.00	$0.00	$45.21
RIDE-ON MOTORIZED BUGGY OPERATOR	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
ROLLER OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$38.42	$13.78	$12.15	$3.00	$0.00	$67.35
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
ROOFER (Coal tar pitch) ROOFERS LOCAL 248 ROOFERS LOCAL 248	7/16/2026	$46.73	$10.60	$8.70	$10.00	$0.00	$76.03
For apprentice rates see "Apprentice- ROOFER"							
ROOFER (Inc.Roofer Waterproofng &Roofer Damproofg) ROOFERS LOCAL 248 ROOFERS LOCAL 248	7/16/2026	$46.23	$10.60	$8.70	$10.00	$0.00	$75.53

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
ROOFER SLATE / TILE / PRECAST CONCRETE ROOFERS LOCAL 248 ROOFERS LOCAL 248 For apprentice rates see "Apprentice- ROOFER"	7/16/2026	$46.73	$10.60	$8.70	$10.00	$0.00	$76.03
SCRAPER OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
SELF-POWERED ROLLERS AND COMPACTORS (TAMPERS) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$38.42	$13.78	$12.15	$3.00	$0.00	$67.35
SELF-PROPELLED POWER BROOM OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$35.80	$13.78	$12.15	$3.00	$0.00	$64.73
SHEETMETAL WORKER SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	$43.48	$13.24	$11.01	$9.92	$2.13	$79.78
	1/1/2027	$43.48	$13.54	$11.01	$11.12	$2.13	$81.28
	7/1/2027	$44.98	$13.54	$11.01	$11.12	$2.13	$82.78
	1/1/2028	$46.48	$13.54	$11.01	$11.12	$2.13	$84.28

Apprentice: SHEETMETAL WORKER

Effective Date: 7/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.57	$5.96	$4.95	$0.00	$0.85	$31.33
2	50.00	$21.74	$6.62	$5.51	$0.00	$0.94	$34.81
3	55.00	$23.91	$7.28	$9.91	$0.00	$1.15	$42.25
4	60.00	$26.09	$7.94	$9.91	$0.00	$1.23	$45.17
5	65.00	$28.26	$8.60	$9.91	$0.00	$1.31	$48.08
6	70.00	$30.44	$9.27	$9.91	$0.00	$1.39	$51.01
7	75.00	$32.61	$9.93	$9.91	$0.00	$1.47	$53.92
8	80.00	$34.78	$10.59	$9.91	$9.92	$1.78	$66.98
9	85.00	$36.96	$11.25	$9.91	$9.92	$1.86	$69.90
10	90.00	$39.13	$11.92	$9.91	$9.92	$1.94	$72.82

Apprentice: SHEETMETAL WORKER

Effective Date: 1/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.57	$6.09	$4.95	$0.00	$0.85	$31.46
2	50.00	$21.74	$6.77	$5.51	$0.00	$0.94	$34.96
3	55.00	$23.91	$7.45	$9.91	$0.00	$1.15	$42.42
4	60.00	$26.09	$8.36	$9.91	$0.00	$1.23	$45.59
5	65.00	$28.26	$8.86	$9.91	$0.00	$1.31	$48.34

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: SHEETMETAL WORKER							
Effective Date: 1/1/2027							
Step / Percent		**Apprentice Base Wage**					
6 / 70.00		$30.44	$9.48	$9.91	$0.00	$1.39	$51.22
7 / 75.00		$32.61	$10.15	$9.91	$0.00	$1.47	$54.14
8 / 80.00		$34.78	$10.83	$9.91	$11.12	$1.78	$68.42
9 / 85.00		$36.96	$11.51	$9.91	$11.12	$1.86	$71.36
10 / 90.00		$39.13	$12.18	$9.91	$11.12	$1.94	$74.28
Apprentice to Journeyworker Ratio: 1:3							
SPECIALIZED EARTH MOVING EQUIP < 35 TONS	6/1/2026	$42.24	$16.17	$21.78	$0.00	$0.00	$80.19
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	$42.24	$16.17	$23.52	$0.00	$0.00	$81.93
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	$42.24	$16.77	$23.52	$0.00	$0.00	$82.53
SPECIALIZED EARTH MOVING EQUIP > 35 TONS	6/1/2026	$42.53	$16.17	$21.78	$0.00	$0.00	$80.48
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	$42.53	$16.17	$23.52	$0.00	$0.00	$82.22
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	$42.53	$16.77	$23.52	$0.00	$0.00	$82.82
SPRINKLER FITTER	7/1/2026	$56.54	$13.60	$7.45	$9.41	$0.00	$87.00
SPRINKLER FITTERS LOCAL 669	10/1/2026	$56.54	$13.60	$7.45	$9.41	$0.00	$87.00
SPRINKLER FITTERS LOCAL 669	1/1/2027	$56.54	$14.55	$7.50	$9.41	$0.00	$88.00
	4/1/2027	$59.83	$14.55	$7.50	$9.41	$0.00	$91.29
	7/1/2027	$59.83	$14.55	$7.50	$9.41	$0.00	$91.29
	10/1/2027	$59.83	$14.55	$7.50	$9.41	$0.00	$91.29
	1/1/2028	$59.83	$15.50	$7.55	$9.41	$0.00	$92.29

Apprentice: SPRINKLER FITTER

Effective Date: 7/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	43.00	$28.36	$9.64	$0.00	$0.00	$0.00	$38.00
2	48.00	$31.66	$9.64	$0.00	$0.00	$0.00	$41.30
3	52.00	$34.29	$13.60	$7.45	$1.15	$0.00	$56.49
4	56.00	$36.93	$13.60	$7.45	$1.15	$0.00	$59.13
5	59.00	$38.91	$13.60	$7.45	$1.40	$0.00	$61.36
6	64.00	$42.21	$13.60	$7.45	$1.40	$0.00	$64.66
7	68.00	$44.85	$13.60	$7.45	$1.40	$0.00	$67.30
8	72.00	$47.48	$13.60	$7.45	$1.40	$0.00	$69.93
9	76.00	$50.12	$13.60	$7.45	$1.40	$0.00	$72.57
10	80.00	$52.76	$13.60	$7.45	$1.40	$0.00	$75.21

Apprentice: SPRINKLER FITTER

Effective Date: 10/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: SPRINKLER FITTER

Effective Date: 10/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	43.00	$28.36	$0.00	$0.00	$0.00	$0.00	$28.36
2	48.00	$31.66	$0.00	$0.00	$0.00	$0.00	$31.66
3	52.00	$34.29	$0.00	$0.00	$1.15	$0.00	$35.44
4	56.00	$36.93	$0.00	$0.00	$1.15	$0.00	$38.08
5	59.00	$38.91	$0.00	$0.00	$1.40	$0.00	$40.31
6	64.00	$42.21	$0.00	$0.00	$1.40	$0.00	$43.61
7	68.00	$44.85	$0.00	$0.00	$1.40	$0.00	$46.25
8	72.00	$47.48	$0.00	$0.00	$1.40	$0.00	$48.88
9	76.00	$50.12	$0.00	$0.00	$1.40	$0.00	$51.52
10	80.00	$52.76	$0.00	$0.00	$1.40	$0.00	$54.16

Apprentice to Journeyworker Ratio: 1:1

TELECOMMUNICATION TECHNICIAN ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
TELECOMMUNICATION TECHNICIAN ELECTRICIANS LOCAL 7	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37

For apprentice rates and ratios see "Apprentice- ELECTRICIAN"

Apprentice: TELECOMMUNICATION TECHNICIAN

Effective Date: 6/28/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	$21.76	$7.80	$0.63	$0.00	$0.00	$30.19
2	45.00	$24.48	$7.80	$0.70	$0.00	$0.00	$32.98
3	50.00	$27.21	$14.00	$7.53	$0.00	$0.00	$48.74
4	55.00	$29.93	$14.00	$7.61	$0.00	$0.00	$51.54
5	65.00	$35.37	$14.00	$9.84	$0.00	$0.00	$59.21
6	70.00	$38.09	$14.00	$11.30	$0.00	$0.00	$63.39

Apprentice: TELECOMMUNICATION TECHNICIAN

Effective Date: 1/3/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	$22.22	$7.95	$0.63	$0.00	$0.00	$30.80
2	45.00	$25.00	$7.95	$0.70	$0.00	$0.00	$33.65
3	50.00	$27.78	$14.25	$7.53	$0.00	$0.00	$49.56
4	55.00	$30.56	$14.25	$7.61	$0.00	$0.00	$52.42
5	65.00	$36.11	$14.25	$9.84	$0.00	$0.00	$60.20
6	70.00	$38.89	$14.25	$11.30	$0.00	$0.00	$64.44

Apprentice to Journeyworker Ratio: 1:1

TERRAZZO FINISHERS	2/10/2026	$66.89	$12.84	$15.57	$8.02	$0.00	$103.32

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BRICKLAYERS LOCAL 3	8/1/2026	$69.09	$12.84	$15.57	$8.02	$0.00	$105.52
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/1/2027	$70.49	$12.84	$15.57	$8.02	$0.00	$106.92

Apprentice: TERRAZZO FINISHERS

Effective Date: 2/10/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$33.45	$12.84	$15.57	$8.02	$0.00	$69.88
2	60.00	$40.13	$12.84	$15.57	$8.02	$0.00	$76.56
3	70.00	$46.82	$12.84	$15.57	$8.02	$0.00	$83.25
4	80.00	$53.51	$12.84	$15.57	$8.02	$0.00	$89.94
5	90.00	$60.20	$12.84	$15.57	$8.02	$0.00	$96.63

Apprentice: TERRAZZO FINISHERS

Effective Date: 8/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$34.55	$12.84	$15.57	$8.02	$0.00	$70.98
2	60.00	$41.45	$12.84	$15.57	$8.02	$0.00	$77.88
3	70.00	$48.36	$12.84	$15.57	$8.02	$0.00	$84.79
4	80.00	$55.27	$12.84	$15.57	$8.02	$0.00	$91.70
5	90.00	$62.18	$12.84	$15.57	$8.02	$0.00	$98.61

Apprentice to Journeyworker Ratio: 1:5

TERRAZZO MECHANIC	2/1/2026	$67.97	$12.84	$15.57	$7.99	$0.00	$104.37
BRICKLAYERS LOCAL 3	8/1/2026	$70.17	$12.84	$15.57	$7.99	$0.00	$106.57
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/1/2027	$71.57	$12.84	$15.57	$7.99	$0.00	$107.97

Apprentice: TERRAZZO MECHANIC

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$33.99	$12.84	$15.57	$7.99	$0.00	$70.39
2	60.00	$40.78	$12.84	$15.57	$7.99	$0.00	$77.18
3	70.00	$47.58	$12.84	$15.57	$7.99	$0.00	$83.98
4	80.00	$54.38	$12.84	$15.57	$7.99	$0.00	$90.78
5	90.00	$61.17	$12.84	$15.57	$7.99	$0.00	$97.57

Apprentice: TERRAZZO MECHANIC

Effective Date: 8/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$35.09	$12.84	$15.57	$7.99	$0.00	$71.49
2	60.00	$42.10	$12.84	$15.57	$7.99	$0.00	$78.50

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: TERRAZZO MECHANIC							
Effective Date: 8/1/2026							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
3 / 70.00		$49.12	$12.84	$15.57	$7.99	$0.00	$85.52
4 / 80.00		$56.14	$12.84	$15.57	$7.99	$0.00	$92.54
5 / 90.00		$63.15	$12.84	$15.57	$7.99	$0.00	$99.55
Apprentice to Journeyworker Ratio: 1:5							
TEST BORING DRILLER	6/1/2026	$53.25	$10.90	$9.75	$9.80	$0.00	$83.70
LABORERS LABORERS - FOUNDATION AND MARINE	12/1/2026	$54.75	$10.90	$9.75	$9.80	$0.00	$85.20
For apprentice rates see "Apprentice- LABORER"							
TEST BORING DRILLER HELPER	6/1/2026	$49.37	$10.90	$9.75	$9.80	$0.00	$79.82
LABORERS LABORERS - FOUNDATION AND MARINE	12/1/2026	$50.87	$10.90	$9.75	$9.80	$0.00	$81.32
For apprentice rates see "Apprentice- LABORER"							
TEST BORING LABORER	6/1/2026	$49.25	$10.90	$9.75	$9.80	$0.00	$79.70
LABORERS LABORERS - FOUNDATION AND MARINE	12/1/2026	$50.75	$10.90	$9.75	$9.80	$0.00	$81.20
For apprentice rates see "Apprentice- LABORER"							
TRACTORS	12/1/2023	$38.42	$13.78	$12.15	$3.00	$0.00	$67.35
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
TRAILERS FOR EARTH MOVING EQUIPMENT	6/1/2026	$42.82	$16.17	$21.78	$0.00	$0.00	$80.77
TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	12/1/2026	$42.82	$16.17	$23.52	$0.00	$0.00	$82.51
	1/1/2027	$42.82	$16.77	$23.52	$0.00	$0.00	$83.11
TUNNEL WORK - COMPRESSED AIR	6/1/2026	$61.48	$10.90	$9.75	$10.25	$0.00	$92.38
LABORERS LABORERS (COMPRESSED AIR)	12/1/2026	$62.98	$10.90	$9.75	$10.25	$0.00	$93.88
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE)	6/1/2026	$63.48	$10.90	$9.75	$10.25	$0.00	$94.38
LABORERS LABORERS (COMPRESSED AIR)	12/1/2026	$64.98	$10.90	$9.75	$10.25	$0.00	$95.88
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - FREE AIR	6/1/2026	$53.55	$10.90	$9.75	$10.25	$0.00	$84.45
LABORERS LABORERS (FREE AIR TUNNEL)	12/1/2026	$55.05	$10.90	$9.75	$10.25	$0.00	$85.95
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - FREE AIR (HAZ. WASTE)	6/1/2026	$55.55	$10.90	$9.75	$10.25	$0.00	$86.45
LABORERS LABORERS (FREE AIR TUNNEL)	12/1/2026	$57.05	$10.90	$9.75	$10.25	$0.00	$87.95
For apprentice rates see "Apprentice- LABORER"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
VAC-HAUL TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.24	$16.17	$21.78	$0.00	$0.00	$80.19
	12/1/2026	$42.24	$16.17	$23.52	$0.00	$0.00	$81.93
	1/1/2027	$42.24	$16.77	$23.52	$0.00	$0.00	$82.53
WAGON DRILL OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
WATER METER INSTALLER PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$56.26	$12.00	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"							

Marine Drilling

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BLASTER MARINE DRILLING MARINE DRILLING	1/1/2018	$41.82	$7.63	$2.35	$1.25	$0.00	$53.05
BOAT CAPTAIN MARINE DRILLING MARINE DRILLING	1/1/2018	$33.87	$7.63	$2.35	$0.95	$0.00	$44.80
BOAT CAPTAIN / Over 1,000 hp MARINE DRILLING MARINE DRILLING	1/1/2018	$38.06	$7.63	$2.35	$1.25	$0.00	$49.29
CORE DRILLER MARINE DRILLING MARINE DRILLING	1/1/2018	$31.43	$7.63	$2.25	$0.65	$0.00	$41.96
CORE DRILLER HELPER MARINE DRILLING MARINE DRILLING	1/1/2018	$28.47	$7.63	$2.35	$0.65	$0.00	$39.10
DRILLER MARINE DRILLING MARINE DRILLING	1/1/2018	$39.70	$7.63	$2.35	$1.25	$0.00	$50.93
ENGINEER MARINE DRILLING MARINE DRILLING	1/1/2018	$39.69	$7.63	$2.25	$1.25	$0.00	$50.82
HELPER MARINE DRILLING MARINE DRILLING	1/1/2018	$34.24	$7.63	$2.35	$0.65	$0.00	$44.87
MACHINIST MARINE DRILLING MARINE DRILLING	1/1/2018	$38.88	$7.63	$2.35	$0.95	$0.00	$49.81
OILER - MARINE DRILLING MARINE DRILLING MARINE DRILLING	1/1/2018	$34.24	$7.63	$2.35	$0.65	$0.00	$44.87
TUG DECKHAND MARINE DRILLING MARINE DRILLING	1/1/2018	$27.61	$7.63	$2.35	$0.65	$0.00	$38.24
WELDER MARINE DRILLING MARINE DRILLING	1/1/2018	$38.88	$7.63	$2.35	$0.95	$0.00	$49.81

Op Eng Marine (Dredging Work)

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BOAT OPERATOR OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$29.26	$7.63	$2.35	$0.95	$0.00	$40.19
CERTIFIED WELDER OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$31.09	$7.63	$2.35	$1.25	$0.00	$42.32
CHIEF WELDER/ CHIEF MATE OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$33.02	$7.63	$2.35	$1.25	$0.00	$44.25
DERRICK / SPIDER / SPILLBARGE OPERATOR OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$33.02	$7.63	$2.35	$1.25	$0.00	$44.25
DRAG BARGE OPERATOR / WELDER / MATE OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$30.24	$7.63	$2.35	$0.95	$0.00	$41.17
ENGINEER / ELECTRICIAN OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$33.02	$7.63	$2.35	$1.25	$0.00	$44.25
LICENSED BOAT OPERATOR OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$33.02	$7.63	$2.35	$1.25	$0.00	$44.25
LICENSED TUG OPERATOR OVER 1000HP OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$38.18	$7.63	$2.35	$1.25	$0.00	$49.41
MAINTENANCE ENGINEER OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$33.03	$7.63	$2.35	$1.25	$0.00	$44.26
OILER - MARINE DIVISION OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$24.30	$7.63	$2.35	$0.65	$0.00	$34.93
OPERATOR / LEVERMAN OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$38.18	$7.63	$2.35	$1.25	$0.00	$49.41
RODMAN / SCOWMAN OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$24.30	$7.63	$2.35	$0.65	$0.00	$34.93
SHOREMAN / DECKHAND OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$24.30	$7.63	$2.35	$0.65	$0.00	$34.93

Additional Apprentice Information

All apprentices must be registered with the Division of Apprenticeship Training(DAS) in accordance with M.G.L.c. 23, §§ 11E-11L. Minimum wage rates for apprentices employed on public works projects are listed above as a percentage of the hourly prevailing wage rate established by the Commissioner under the provisions of M.G.L.c. 149, §§ 26-27D.

Apprentice ratios are established by DAS pursuant to M.G.L.c. 23, §§ 11E-11L. Ratios are expressed as the allowable number of apprentices to journeymen or fraction thereof, unless otherwise specified. The ratios listed herein have been taken from relevant private collective bargaining agreements(CBAs) and are provided for illustrative purposes only. They have not been independently verified as being accurate or continuing to be accurate.

Parties having questions regarding what ratio to use should contact DAS.

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

MAURA HEALEY
Governor
KIM DRISCOLL
Lt. Governor

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:	Massachusetts Highway	**City/Town:**	CHARLEMONT
Contract Number:	135581		
Description of Work:	ASHFIELD-CHARLEMONT-CONWAY-HAWLEY – Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 1)		
Job Location:	Municipal Bridges at Multiple locations		

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 form 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.

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
(2 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$41.95	$16.17	$21.78	$0.00	$0.00	$79.90
	12/1/2026	$41.95	$16.17	$23.52	$0.00	$0.00	$81.64
	1/1/2027	$41.95	$16.77	$23.52	$0.00	$0.00	$82.24
(3 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.02	$16.17	$21.78	$0.00	$0.00	$79.97
	12/1/2026	$42.02	$16.17	$23.52	$0.00	$0.00	$81.71
	1/1/2027	$42.02	$16.77	$23.52	$0.00	$0.00	$82.31
(4 & 5 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.14	$16.17	$21.78	$0.00	$0.00	$80.09
	12/1/2026	$42.14	$16.17	$23.52	$0.00	$0.00	$81.83
	1/1/2027	$42.14	$16.77	$23.52	$0.00	$0.00	$82.43
ADS/SUBMERSIBLE PILOT PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3) For apprentice rates see "Apprentice- PILE DRIVER"	8/1/2024	$117.16	$10.08	$11.62	$12.67	$0.00	$151.53
AIR TRACK OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$36.97	$10.90	$9.75	$6.60	$0.00	$64.22
	12/1/2026	$39.39	$10.90	$9.75	$6.60	$0.00	$66.64
	6/1/2027	$40.79	$10.90	$9.75	$6.60	$0.00	$68.04
	12/1/2027	$42.19	$10.90	$9.75	$6.60	$0.00	$69.44
	6/1/2028	$43.69	$10.90	$9.75	$6.60	$0.00	$70.94
	12/1/2028	$45.19	$10.90	$9.75	$6.60	$0.00	$72.44
AIR TRACK OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY) For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"	6/1/2026	$37.75	$10.90	$9.75	$6.60	$0.00	$65.00
	12/1/2026	$39.04	$10.90	$9.75	$6.60	$0.00	$66.29
ASBESTOS WORKER (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)	12/1/2025	$40.32	$14.50	$4.30	$6.25	$0.00	$65.37
ASPHALT RAKER LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
ASPHALT RAKER (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY) For apprentice rates see "Apprentice- LABORER (Heavy and Highway)	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
AUTOMATIC GRADER-EXCAVATOR (RECLAIMER) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
BACKHOE/FRONT-END LOADER OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
BARCO-TYPE JUMPING TAMPER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
BATCH/CEMENT PLANT - ON SITE OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
BLOCK PAVER, RAMMER / CURB SETTER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.97	$10.90	$9.75	$6.60	$0.00	$64.22
	12/1/2026	$39.39	$10.90	$9.75	$6.60	$0.00	$66.64
	6/1/2027	$40.79	$10.90	$9.75	$6.60	$0.00	$68.04
	12/1/2027	$42.19	$10.90	$9.75	$6.60	$0.00	$69.44
	6/1/2028	$43.69	$10.90	$9.75	$6.60	$0.00	$70.94
	12/1/2028	$45.19	$10.90	$9.75	$6.60	$0.00	$72.44
For apprentice rates see "Apprentice- LABORER"							
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY) For apprentice rates see "Apprentice- LABORER (Heavy and Highway)	6/1/2026	$37.75	$10.90	$9.75	$6.60	$0.00	$65.00
	12/1/2026	$39.04	$10.90	$9.75	$6.60	$0.00	$66.29
BOILER MAKER BOILERMAKERS LOCAL 29 BOILERMAKERS LOCAL 29	1/1/2024	$48.12	$7.07	$14.60	$6.00	$0.00	$75.79

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING) BRICKLAYERS LOCAL 3 BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)	2/1/2026	$56.36	$12.84	$15.57	$5.89	$0.00	$90.66
	8/1/2026	$58.56	$12.84	$15.57	$5.89	$0.00	$92.86
	2/1/2027	$59.96	$12.84	$15.57	$5.89	$0.00	$94.26

Apprentice: BOILER MAKER

Effective Date: 1/1/2024

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	65.00	$31.28	$7.07	$9.32	$3.90	$0.00	$51.57
2	65.00	$31.28	$7.07	$9.32	$3.90	$0.00	$51.57
3	70.00	$33.68	$7.07	$10.03	$4.20	$0.00	$54.98
4	75.00	$36.09	$7.07	$10.74	$4.50	$0.00	$58.40
5	80.00	$38.50	$7.07	$11.45	$4.80	$0.00	$61.82
6	85.00	$40.90	$7.07	$12.18	$5.10	$0.00	$65.25
7	90.00	$43.31	$7.07	$12.88	$5.40	$0.00	$68.66
8	95.00	$45.71	$7.07	$13.62	$5.70	$0.00	$72.10

Apprentice to Journeyworker Ratio: 1:4

Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$28.18	$12.84	$15.57	$5.89	$0.00	$62.48
2	60.00	$33.82	$12.84	$15.57	$5.89	$0.00	$68.12
3	70.00	$39.45	$12.84	$15.57	$5.89	$0.00	$73.75
4	80.00	$45.09	$12.84	$15.57	$5.89	$0.00	$79.39
5	90.00	$50.72	$12.84	$15.57	$5.89	$0.00	$85.02

Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)

Effective Date: 8/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$29.28	$12.84	$15.57	$5.89	$0.00	$63.58
2	60.00	$35.14	$12.84	$15.57	$5.89	$0.00	$69.44
3	70.00	$40.99	$12.84	$15.57	$5.89	$0.00	$75.29
4	80.00	$46.85	$12.84	$15.57	$5.89	$0.00	$81.15
5	90.00	$52.70	$12.84	$15.57	$5.89	$0.00	$87.00

Apprentice to Journeyworker Ratio: 1:5

BULLDOZER/POWER SHOVEL/TREE SHREDDER /CLAM SHELL OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
CAISSON & UNDERPINNING BOTTOM MAN LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$50.40	$10.90	$9.75	$9.80	$0.00	$80.85
	12/1/2026	$51.90	$10.90	$9.75	$9.80	$0.00	$82.35
For apprentice rates see "Apprentice- LABORER"							
CAISSON & UNDERPINNING LABORER LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$49.25	$10.90	$9.75	$9.80	$0.00	$79.70
	12/1/2026	$50.75	$10.90	$9.75	$9.80	$0.00	$81.20
For apprentice rates see "Apprentice- LABORER"							
CAISSON & UNDERPINNING TOP MAN LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$49.58	$10.90	$9.75	$9.80	$0.00	$80.03
	12/1/2026	$51.08	$10.90	$9.75	$9.80	$0.00	$81.53
For apprentice rates see "Apprentice- LABORER"							
CARBIDE CORE DRILL OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
CARPENTER CARPENTERS CARPENTERS LOCAL 336 - HAMPDEN HAMPSHIRE FRANKLIN	3/1/2026	$43.81	$9.19	$11.25	$6.90	$0.00	$71.15
	9/1/2026	$44.76	$9.19	$11.25	$6.90	$0.00	$72.10
	3/1/2027	$45.66	$9.19	$11.25	$6.90	$0.00	$73.00

Apprentice: CARPENTER

Effective Date: 3/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.71	$9.19	$0.00	$1.38	$0.00	$30.28
2	45.00	$19.71	$1.28	$0.00	$1.38	$0.00	$22.37
3	55.00	$24.10	$9.19	$0.00	$2.76	$0.00	$36.05
4	55.00	$24.10	$9.19	$0.00	$2.76	$0.00	$36.05
5	70.00	$30.67	$9.19	$11.25	$4.14	$0.00	$55.25
6	70.00	$30.67	$9.19	$11.25	$4.14	$0.00	$55.25
7	80.00	$35.05	$9.19	$11.25	$5.52	$0.00	$61.01
8	80.00	$35.05	$9.19	$11.25	$5.52	$0.00	$61.01

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: CARPENTER							
Effective Date: 9/1/2026							

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$20.14	$9.19	$0.00	$1.38	$0.00	$30.71
2	45.00	$20.14	$9.19	$0.00	$1.38	$0.00	$30.71
3	55.00	$24.62	$9.19	$0.00	$2.76	$0.00	$36.57
4	55.00	$24.62	$9.19	$0.00	$2.76	$0.00	$36.57
5	70.00	$31.33	$9.19	$11.25	$4.14	$0.00	$55.91
6	70.00	$31.33	$9.19	$11.25	$4.14	$0.00	$55.91
7	80.00	$35.81	$9.19	$11.25	$5.52	$0.00	$61.77
8	80.00	$35.81	$9.19	$11.25	$5.52	$0.00	$61.77

Apprentice to Journeyworker Ratio: 1:5

CARPENTER WOOD FRAME CARPENTERS CARPENTERS-ZONE 3 (Wood Frame)	10/1/2025	$27.37	$7.38	$4.47	$1.00	$0.00	$40.22
	10/1/2026	$28.47	$7.38	$4.47	$1.00	$0.00	$41.32

All Aspects of New Wood Frame Work

Apprentice: CARPENTER WOOD FRAME

Effective Date: 10/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$16.42	$7.38	$0.00	$0.00	$0.00	$23.80
2	60.00	$16.42	$7.38	$0.00	$0.00	$0.00	$23.80
3	65.00	$17.79	$7.38	$0.00	$1.00	$0.00	$26.17
4	70.00	$19.16	$7.38	$0.00	$1.00	$0.00	$27.54
5	75.00	$20.53	$7.38	$3.80	$1.00	$0.00	$32.71
6	80.00	$21.90	$7.38	$3.80	$1.00	$0.00	$34.08
7	85.00	$23.26	$7.38	$3.80	$1.00	$0.00	$35.44
8	90.00	$24.63	$7.38	$3.80	$1.00	$0.00	$36.81

Apprentice: CARPENTER WOOD FRAME

Effective Date: 10/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$17.08	$7.38	$0.00	$0.00	$0.00	$24.46
2	60.00	$17.08	$7.38	$0.00	$0.00	$0.00	$24.46
3	65.00	$18.51	$7.38	$0.00	$1.00	$0.00	$26.89
4	70.00	$19.93	$7.38	$0.00	$1.00	$0.00	$28.31
5	75.00	$21.35	$7.38	$3.80	$1.00	$0.00	$33.53
6	80.00	$22.78	$7.38	$3.80	$1.00	$0.00	$34.96
7	85.00	$24.20	$7.38	$3.80	$1.00	$0.00	$36.38
8	90.00	$25.62	$7.38	$3.80	$1.00	$0.00	$37.80

Apprentice to Journeyworker Ratio: 1:5

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
CEMENT MASONRY/PLASTERING	7/1/2026	$49.32	$13.20	$16.30	$2.93	$1.69	$83.44
PLASTERERS AND CEMENT MASONS LOCAL 534	1/1/2027	$50.51	$13.20	$16.30	$2.93	$1.69	$84.63
Plasterers and Cement Masons - Zone 2	7/1/2027	$51.70	$13.20	$16.30	$2.93	$1.69	$85.82
	1/1/2028	$52.89	$13.20	$16.30	$2.93	$1.69	$87.01

Apprentice: CEMENT MASONRY/PLASTERING

Effective Date: 7/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$24.66	$13.20	$16.30	$0.00	$0.00	$54.16
2	60.00	$29.59	$13.20	$16.30	$2.93	$1.69	$63.71
3	65.00	$32.06	$13.20	$16.30	$2.93	$1.69	$66.18
4	70.00	$34.52	$13.20	$16.30	$2.93	$1.69	$68.64
5	75.00	$36.99	$13.20	$16.30	$2.93	$1.69	$71.11
6	80.00	$39.46	$13.20	$16.30	$2.93	$1.69	$73.58
7	90.00	$44.39	$13.20	$16.30	$2.93	$0.00	$76.82

Apprentice: CEMENT MASONRY/PLASTERING

Effective Date: 1/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$25.26	$16.30	$16.30	$0.00	$0.00	$57.86
2	60.00	$30.31	$16.30	$16.30	$2.93	$1.69	$67.53
3	65.00	$32.83	$16.30	$16.30	$2.93	$1.69	$70.05
4	70.00	$35.36	$16.30	$16.30	$2.93	$1.69	$72.58
5	75.00	$37.88	$16.30	$16.30	$2.93	$1.69	$75.10
6	80.00	$40.41	$16.30	$16.30	$2.93	$1.69	$77.63
7	90.00	$45.46	$16.30	$16.30	$2.93	$0.00	$80.99

Apprentice to Journeyworker Ratio: 1:5

CHAIN SAW OPERATOR	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
LABORERS	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19

For apprentice rates see "Apprentice- LABORER"

COMPRESSOR OPERATOR	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
CRANE OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$43.06	$13.78	$12.15	$3.00	$0.00	$71.99
DELEADER (BRIDGE) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$59.56	$10.35	$12.00	$12.60	$0.00	$94.51

Apprentice: DELEADER (BRIDGE)

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$29.78	$10.35	$0.00	$0.00	$0.00	$40.13
2	55.00	$32.76	$10.35	$0.00	$6.93	$0.00	$50.04
3	60.00	$35.74	$10.35	$0.00	$7.56	$0.00	$53.65
4	65.00	$38.71	$10.35	$0.00	$8.19	$0.00	$57.25
5	70.00	$41.69	$10.35	$12.00	$8.82	$0.00	$72.86
6	75.00	$44.67	$10.35	$12.00	$9.45	$0.00	$76.47
7	80.00	$47.65	$10.35	$12.00	$10.08	$0.00	$80.08
8	90.00	$53.60	$10.35	$12.00	$11.34	$0.00	$87.29

Apprentice to Journeyworker Ratio: 1:1

DEMO: ADZEMAN LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$49.30	$10.90	$9.75	$9.65	$0.00	$79.60
	12/7/2026	$50.80	$10.90	$9.75	$9.65	$0.00	$81.10
	6/7/2027	$52.40	$10.90	$9.75	$9.65	$0.00	$82.70
	12/6/2027	$54.00	$10.90	$9.75	$9.65	$0.00	$84.30
	6/5/2028	$55.68	$10.90	$9.75	$9.65	$0.00	$85.98
	12/4/2028	$57.35	$10.90	$9.75	$9.65	$0.00	$87.65
DEMO: BACKHOE/LOADER/HAMMER OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$50.30	$10.90	$9.75	$9.65	$0.00	$80.60
	12/7/2026	$51.80	$10.90	$9.75	$9.65	$0.00	$82.10
	6/7/2027	$53.40	$10.90	$9.75	$9.65	$0.00	$83.70
	12/6/2027	$55.00	$10.90	$9.75	$9.65	$0.00	$85.30
	6/5/2028	$56.68	$10.90	$9.75	$9.65	$0.00	$86.98
	12/4/2028	$58.35	$10.90	$9.75	$9.65	$0.00	$88.65
DEMO: BURNERS LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$50.05	$10.90	$9.75	$9.65	$0.00	$80.35
	12/7/2026	$51.55	$10.90	$9.75	$9.65	$0.00	$81.85
	6/7/2027	$53.15	$10.90	$9.75	$9.65	$0.00	$83.45
	12/6/2027	$54.75	$10.90	$9.75	$9.65	$0.00	$85.05
	6/5/2028	$56.43	$10.90	$9.75	$9.65	$0.00	$86.73
	12/4/2028	$58.10	$10.90	$9.75	$9.65	$0.00	$88.40

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LABORER"							
DEMO: CONCRETE CUTTER/SAWYER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$50.30	$10.90	$9.75	$9.65	$0.00	$80.60
	12/7/2026	$51.80	$10.90	$9.75	$9.65	$0.00	$82.10
	6/7/2027	$53.40	$10.90	$9.75	$9.65	$0.00	$83.70
	12/6/2027	$55.00	$10.90	$9.75	$9.65	$0.00	$85.30
	6/5/2028	$56.68	$10.90	$9.75	$9.65	$0.00	$86.98
	12/4/2028	$58.35	$10.90	$9.75	$9.65	$0.00	$88.65
For apprentice rates see "Apprentice- LABORER"							
DEMO: JACKHAMMER OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$50.05	$10.90	$9.75	$9.65	$0.00	$80.35
	12/7/2026	$51.55	$10.90	$9.75	$9.65	$0.00	$81.85
	6/7/2027	$53.15	$10.90	$9.75	$9.65	$0.00	$83.45
	12/6/2027	$54.75	$10.90	$9.75	$9.65	$0.00	$85.05
	6/5/2028	$56.43	$10.90	$9.75	$9.65	$0.00	$86.73
	12/4/2028	$58.10	$10.90	$9.75	$9.65	$0.00	$88.40
For apprentice rates see "Apprentice- LABORER"							
DEMO: WRECKING LABORER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$49.30	$10.90	$9.75	$9.65	$0.00	$79.60
	12/7/2026	$50.80	$10.90	$9.75	$9.65	$0.00	$81.10
	6/7/2027	$52.40	$10.90	$9.75	$9.65	$0.00	$82.70
	12/6/2027	$54.00	$10.90	$9.75	$9.65	$0.00	$84.30
	6/5/2028	$55.68	$10.90	$9.75	$9.65	$0.00	$85.98
	12/4/2028	$57.35	$10.90	$9.75	$9.65	$0.00	$87.65
For apprentice rates see "Apprentice- LABORER"							
DIVER PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$78.11	$10.08	$11.62	$12.67	$0.00	$112.48
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Diver wage 70/80/90 2A $69.83, 3A $91.79,4A $102.14 Total Rate							
DIVER TENDER PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Piledriver wage 70/80/90 2A $54.20, 3A $73.93,4A $82.05 Total Rate							
DIVER TENDER (EFFLUENT) PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$83.69	$10.08	$11.62	$12.67	$0.00	$118.06
For apprentice rates see "Apprentice- PILE DRIVER"							
DIVER/SLURRY (EFFLUENT) PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$117.16	$10.08	$11.62	$12.67	$0.00	$151.53
For apprentice rates see "Apprentice- PILE DRIVER"							
DRAWBRIDGE OPERATOR (Construction) DRAWBRIDGE - SEIU LOCAL 888 DRAWBRIDGE - SEIU LOCAL 888	7/1/2020	$26.77	$6.67	$3.93	$0.00	$0.16	$37.53
ELECTRICIAN (Including Core Drilling) ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: ELECTRICIAN (Including Core Drilling)

Effective Date: 6/28/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	$21.76	$7.80	$0.63	$0.00	$0.00	$30.19
2	45.00	$24.48	$7.80	$0.70	$0.00	$0.00	$32.98
3	50.00	$27.21	$14.00	$7.53	$0.00	$0.00	$48.74
4	55.00	$29.93	$14.00	$7.61	$0.00	$0.00	$51.54
5	65.00	$35.37	$14.00	$9.84	$0.00	$0.00	$59.21
6	70.00	$38.09	$14.00	$11.30	$0.00	$0.00	$63.39

Apprentice: ELECTRICIAN (Including Core Drilling)

Effective Date: 1/3/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	$22.22	$7.95	$0.63	$0.00	$0.00	$30.80
2	45.00	$25.00	$7.95	$0.70	$0.00	$0.00	$33.65
3	50.00	$27.78	$14.25	$7.53	$0.00	$0.00	$49.56
4	55.00	$30.56	$14.25	$7.61	$0.00	$0.00	$52.42
5	65.00	$36.11	$14.25	$9.84	$0.00	$0.00	$60.20
6	70.00	$38.89	$14.25	$11.30	$0.00	$0.00	$64.44

Apprentice to Journeyworker Ratio: 2:3

ELEVATOR CONSTRUCTOR	1/1/2026	$69.23	$16.38	$11.06	$10.70	$0.00	$107.37
ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2027	$72.23	$16.48	$11.16	$11.00	$0.00	$110.87
ELEVATOR CONSTRUCTORS LOCAL 41							

Apprentice: ELEVATOR CONSTRUCTOR

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$34.62	$16.38	$0.00	$0.00	$0.00	$51.00
2	55.00	$38.08	$16.38	$11.06	$10.70	$0.00	$76.22
3	65.00	$45.00	$16.38	$11.06	$10.70	$0.00	$83.14
4	70.00	$48.46	$16.38	$11.06	$10.70	$0.00	$86.60
5	80.00	$55.38	$16.38	$11.06	$10.70	$0.00	$93.52

Apprentice: ELEVATOR CONSTRUCTOR

Effective Date: 1/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$36.12	$16.48	$0.00	$0.00	$0.00	$52.60
2	55.00	$39.73	$16.48	$11.16	$11.00	$0.00	$78.37
3	65.00	$46.95	$16.48	$11.16	$11.00	$0.00	$85.59

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: ELEVATOR CONSTRUCTOR							
Effective Date: 1/1/2027							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
4 / 70.00		$50.56	$16.48	$11.16	$11.00	$0.00	$89.20
5 / 80.00		$57.78	$16.48	$11.16	$11.00	$0.00	$96.42
Apprentice to Journeyworker Ratio: 1:1							
ELEVATOR CONSTRUCTOR HELPER ELEVATOR CONSTRUCTORS LOCAL 41 ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2026	$48.46	$16.38	$11.06	$10.70	$0.00	$86.60
	1/1/2027	$50.56	$16.48	$11.16	$11.00	$0.00	$89.20
For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"							
FENCE & BEAM RAIL ERECTOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$44.69	$10.90	$9.75	$6.60	$0.00	$71.94
For apprentice rates see "Apprentice- LABORER"							
FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
FIELD ENG.INST/ROD-BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$18.84	$4.80	$4.10	$0.00	$0.00	$27.74
FIELD ENG.PARTY CHIEF:BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$21.33	$4.80	$4.10	$0.00	$0.00	$30.23
FIELD ENG.SURVEY CHIEF-BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$22.33	$4.80	$4.10	$0.00	$0.00	$31.23
FIRE ALARM INSTALLER ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- ELECTRICIAN"							
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"							
FIREMAN OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: FIREMAN

Effective Date: 12/1/2023

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$23.42	$13.78	$12.15	$3.00	$0.00	$52.35
2	70.00	$27.32	$13.78	$12.15	$3.00	$0.00	$56.25
3	80.00	$31.22	$13.78	$12.15	$3.00	$0.00	$60.15
4	90.00	$35.13	$13.78	$12.15	$3.00	$0.00	$64.06

Apprentice to Journeyworker Ratio: 1:6

FLAGGER & SIGNALER (HEAVY & HIGHWAY)	6/1/2026	$29.21	$10.90	$9.75	$6.60	$0.00	$56.46
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$29.21	$10.90	$9.75	$6.60	$0.00	$56.46
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
FLOORCOVERER	3/1/2026	$44.34	$8.56	$11.25	$6.90	$0.00	$71.05
FLOORCOVERERS LOCAL 2168 FLOORCOVERERS LOCAL 2168 ZONE III	9/1/2026	$45.29	$8.56	$11.25	$6.90	$0.00	$72.00
	3/1/2027	$46.19	$8.56	$11.25	$6.90	$0.00	$72.90

Apprentice: FLOORCOVERER

Effective Date: 3/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.95	$8.56	$0.00	$1.38	$0.00	$29.89
2	45.00	$19.95	$8.56	$0.00	$1.38	$0.00	$29.89
3	55.00	$24.39	$8.56	$0.00	$2.76	$0.00	$35.71
4	55.00	$24.39	$8.56	$0.00	$2.76	$0.00	$35.71
5	70.00	$31.04	$8.56	$11.25	$4.14	$0.00	$54.99
6	70.00	$31.04	$8.56	$11.25	$4.14	$0.00	$54.99
7	80.00	$35.47	$8.56	$11.25	$5.52	$0.00	$60.80
8	80.00	$35.47	$8.56	$11.25	$5.52	$0.00	$60.80

Apprentice: FLOORCOVERER

Effective Date: 9/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$20.38	$8.56	$0.00	$1.38	$0.00	$30.32
2	45.00	$20.38	$8.56	$0.00	$1.38	$0.00	$30.32
3	55.00	$24.91	$8.56	$0.00	$2.76	$0.00	$36.23
4	55.00	$24.91	$8.56	$0.00	$2.76	$0.00	$36.23
5	70.00	$31.70	$8.56	$11.25	$4.14	$0.00	$55.65
6	70.00	$31.70	$8.56	$11.25	$4.14	$0.00	$55.65
7	80.00	$36.23	$8.56	$11.25	$5.52	$0.00	$61.56
8	80.00	$36.23	$8.56	$11.25	$5.52	$0.00	$61.56

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice Notes Steps are 750 hrs.							
Apprentice to Journeyworker Ratio: 1:1							
FORK LIFT OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.25	$13.78	$12.15	$3.00	$0.00	$68.18
GENERATORS/LIGHTING PLANTS OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$35.80	$13.78	$12.15	$3.00	$0.00	$64.73
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) GLAZIERS LOCAL 1333 GLAZIERS LOCAL 1333	6/1/2026	$44.73	$11.20	$8.40	$6.05	$0.00	$70.38
	6/1/2027	$46.73	$11.60	$8.55	$6.60	$0.00	$73.48
	6/1/2028	$48.73	$12.00	$8.70	$7.20	$0.00	$76.63

Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)

Effective Date: 6/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$22.37	$11.20	$8.40	$6.05	$0.00	$48.02
2	56.25	$25.16	$11.20	$8.40	$6.05	$0.00	$50.81
3	62.50	$27.96	$11.20	$8.40	$6.05	$0.00	$53.61
4	68.75	$30.75	$11.20	$8.40	$6.05	$0.00	$56.40
5	75.00	$33.55	$11.20	$8.40	$6.05	$0.00	$59.20
6	81.25	$36.34	$11.20	$8.40	$6.05	$0.00	$61.99
7	87.50	$39.14	$11.20	$8.40	$6.05	$0.00	$64.79
8	93.75	$41.93	$11.20	$8.40	$6.05	$0.00	$67.58

Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)

Effective Date: 6/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$23.37	$11.60	$8.55	$6.60	$0.00	$50.12
2	56.25	$26.29	$11.60	$8.55	$6.60	$0.00	$53.04
3	62.50	$29.21	$11.60	$8.55	$6.60	$0.00	$55.96
4	68.75	$32.13	$11.60	$8.55	$6.60	$0.00	$58.88
5	75.00	$35.05	$11.60	$8.55	$6.60	$0.00	$61.80
6	81.25	$37.97	$11.60	$8.55	$6.60	$0.00	$64.72
7	87.50	$40.89	$11.60	$8.55	$6.60	$0.00	$67.64
8	93.75	$43.81	$11.60	$8.55	$6.60	$0.00	$70.56

Apprentice to Journeyworker Ratio: 3:1							
GRADER/TRENCHING MACHINE/DERRICK	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
HVAC (DUCTWORK) SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	$43.48	$13.24	$11.01	$9.92	$2.13	$79.78
	1/1/2027	$43.48	$13.54	$11.01	$11.12	$2.13	$81.28
	7/1/2027	$44.98	$13.54	$11.01	$11.12	$2.13	$82.78
	1/1/2028	$46.48	$13.54	$11.01	$11.12	$2.13	$84.28
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- ELECTRICIAN"							
HVAC (TESTING AND BALANCING - AIR) SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	$43.48	$13.24	$11.01	$9.92	$2.13	$79.78
	1/1/2027	$43.48	$13.54	$11.01	$11.12	$2.13	$81.28
	7/1/2027	$44.98	$13.54	$11.01	$11.12	$2.13	$82.78
	1/1/2028	$46.48	$13.54	$11.01	$11.12	$2.13	$84.28
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (TESTING AND BALANCING -WATER) PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HVAC MECHANIC PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HYDRAULIC DRILLS (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.75	$10.90	$9.75	$6.60	$0.00	$65.00
	12/1/2026	$39.04	$10.90	$9.75	$6.60	$0.00	$66.29
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
INSULATOR (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)	9/1/2025	$48.27	$14.75	$9.52	$10.09	$0.00	$82.63
	9/1/2026	$51.01	$14.75	$9.52	$10.09	$0.00	$85.37

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: INSULATOR (PIPES & TANKS)

Effective Date: 9/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$24.14	$14.75	$9.27	$5.05	$0.00	$53.21
2	60.00	$28.96	$14.75	$9.32	$6.05	$0.00	$59.08
3	70.00	$33.79	$14.75	$9.37	$7.06	$0.00	$64.97
4	80.00	$38.62	$14.75	$9.42	$8.07	$0.00	$70.86

Apprentice: INSULATOR (PIPES & TANKS)

Effective Date: 9/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$25.51	$14.75	$9.27	$5.05	$0.00	$54.58
2	60.00	$30.61	$14.75	$9.32	$6.05	$0.00	$60.73
3	70.00	$35.71	$14.75	$9.37	$7.06	$0.00	$66.89
4	80.00	$40.81	$14.75	$9.42	$8.07	$0.00	$73.05

Apprentice to Journeyworker Ratio: 1:4

IRONWORKER/WELDER IRONWORKERS LOCAL 7 IRONWORKERS LOCAL 7 (SPRINGFIELD AREA)	3/16/2026	$42.46	$9.25	$12.75	$11.25	$0.00	$75.71

Apprentice: IRONWORKER/WELDER

Effective Date: 3/16/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	70.00	$29.72	$9.25	$12.75	$1.25	$0.00	$52.97
2	80.00	$33.97	$9.25	$12.75	$1.25	$0.00	$57.22
3	90.00	$38.21	$9.25	$12.75	$1.25	$0.00	$61.46
4	0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
5	0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
6	0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

Apprentice to Journeyworker Ratio: 1:4

JACKHAMMER & PAVING BREAKER OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19

For apprentice rates see "Apprentice- LABORER"

LABORER	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
LABORERS	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69

Apprentice: LABORER

Effective Date: 6/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$21.73	$10.90	$9.75	$6.60	$0.00	$48.98
2	70.00	$25.35	$10.90	$9.75	$6.60	$0.00	$52.60
3	80.00	$28.98	$10.90	$9.75	$6.60	$0.00	$56.23
4	90.00	$32.60	$10.90	$9.75	$6.60	$0.00	$59.85

Apprentice: LABORER

Effective Date: 12/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$23.18	$10.90	$9.75	$6.60	$0.00	$50.43
2	70.00	$27.05	$10.90	$9.75	$6.60	$0.00	$54.30
3	80.00	$30.91	$10.90	$9.75	$6.60	$0.00	$58.16
4	90.00	$34.78	$10.90	$9.75	$6.60	$0.00	$62.03

Apprentice to Journeyworker Ratio: 1:5

LABORER (HEAVY & HIGHWAY)	6/1/2026	$37.00	$10.90	$9.75	$6.60	$0.00	$64.25
LABORERS	12/1/2026	$38.29	$10.90	$9.75	$6.60	$0.00	$65.54
LABORERS - ZONE 4 (HEAVY & HIGHWAY)							

Apprentice: LABORER (HEAVY & HIGHWAY)

Effective Date: 6/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$22.20	$10.90	$9.75	$6.60	$0.00	$49.45
2	70.00	$25.90	$10.90	$9.75	$6.60	$0.00	$53.15
3	80.00	$29.60	$10.90	$9.75	$6.60	$0.00	$56.85
4	90.00	$33.30	$10.90	$9.75	$6.60	$0.00	$60.55

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: LABORER (HEAVY & HIGHWAY)

Effective Date: 12/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$22.97	$10.90	$9.75	$6.60	$0.00	$50.22
2	70.00	$26.80	$10.90	$9.75	$6.60	$0.00	$54.05
3	80.00	$30.63	$10.90	$9.75	$6.60	$0.00	$57.88
4	90.00	$34.46	$10.90	$9.75	$6.60	$0.00	$61.71

Apprentice to Journeyworker Ratio: 1:5

LABORER: CARPENTER TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: CEMENT FINISHER TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$35.67	$10.90	$9.75	$5.41	$0.00	$61.73
	12/1/2026	$36.96	$10.90	$9.75	$5.41	$0.00	$63.02
	6/1/2027	$38.26	$10.90	$9.75	$5.41	$0.00	$64.32
	12/1/2027	$39.56	$10.90	$9.75	$5.41	$0.00	$65.62
	6/5/2028	$40.91	$10.90	$9.75	$5.41	$0.00	$66.97
	12/4/2028	$42.26	$10.90	$9.75	$5.41	$0.00	$68.32
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$38.22	$10.90	$9.75	$6.60	$0.00	$65.47
	12/1/2026	$40.64	$10.90	$9.75	$6.60	$0.00	$67.89
	6/1/2027	$42.04	$10.90	$9.75	$6.60	$0.00	$69.29
	12/1/2027	$43.44	$10.90	$9.75	$6.60	$0.00	$70.69
	6/1/2028	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
	12/1/2028	$46.44	$10.90	$9.75	$6.60	$0.00	$73.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
LABORER: MULTI-TRADE TENDER	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: TREE REMOVER	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
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	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
LASER BEAM OPERATOR (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
MARBLE & TILE FINISHERS	2/1/2026	$45.56	$12.84	$15.10	$5.41	$0.00	$78.91
BRICKLAYERS LOCAL 3 BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	8/1/2026	$47.32	$12.84	$15.10	$5.41	$0.00	$80.67
	2/1/2027	$48.44	$12.84	$15.10	$5.41	$0.00	$81.79

Apprentice: MARBLE & TILE FINISHERS

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$22.78	$12.84	$15.10	$5.41	$0.00	$56.13
2	60.00	$27.34	$12.84	$15.10	$5.41	$0.00	$60.69
3	70.00	$31.89	$12.84	$15.10	$5.41	$0.00	$65.24
4	80.00	$36.45	$12.84	$15.10	$5.41	$0.00	$69.80
5	90.00	$41.00	$12.84	$15.10	$5.41	$0.00	$74.35

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: MARBLE & TILE FINISHERS							
Effective Date: 8/1/2026							
Step / Percent		**Apprentice Base Wage**					
1 / 50.00		$23.66	$12.84	$15.10	$5.41	$0.00	$57.01
2 / 60.00		$28.39	$12.84	$15.10	$5.41	$0.00	$61.74
3 / 70.00		$33.12	$12.84	$15.10	$5.41	$0.00	$66.47
4 / 80.00		$37.86	$12.84	$15.10	$5.41	$0.00	$71.21
5 / 90.00		$42.59	$12.84	$15.10	$5.41	$0.00	$75.94
Apprentice to Journeyworker Ratio: 1:5							
MECH. SWEEPER OPERATOR (ON CONST. SITES) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
MECHANIC/WELDER/BOOM TRUCK OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
MILLWRIGHT (Zone 3) MILLWRIGHTS LOCAL 1121 MILLWRIGHTS LOCAL 1121 - Zone 3	1/5/2026	$45.20	$10.58	$11.47	$9.75	$0.00	$77.00
Apprentice: MILLWRIGHT (Zone 3)							
Effective Date: 1/5/2026							
Step / Percent		**Apprentice Base Wage**					
1 / 55.00		$24.86	$10.58	$0.00	$5.36	$0.00	$40.80
2 / 65.00		$29.38	$10.58	$0.00	$6.34	$0.00	$46.30
3 / 75.00		$33.90	$10.58	$11.47	$7.31	$0.00	$63.26
4 / 85.00		$38.42	$10.58	$11.47	$8.29	$0.00	$68.76
Apprentice Notes							
Step 1&2 Appr. indentured after 1/6/2020 receive no pension,							
Apprentice to Journeyworker Ratio: 1:4							
MORTAR MIXER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19

For apprentice rates see "Apprentice- LABORER"

OILER OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$35.02	$13.78	$12.15	$3.00	$0.00	$63.95

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

OTHER POWER DRIVEN EQUIPMENT - CLASS VI OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$32.74	$13.78	$12.15	$3.00	$0.00	$61.67

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

PAINTER (BRIDGES/TANKS) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$59.56	$10.35	$12.00	$12.60	$0.00	$94.51

Apprentice: PAINTER (BRIDGES/TANKS)

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$29.78	$10.35	$0.00	$0.00	$0.00	$40.13
2	55.00	$32.76	$10.35	$0.00	$6.93	$0.00	$50.04
3	60.00	$35.74	$10.35	$0.00	$7.56	$0.00	$53.65
4	65.00	$38.71	$10.35	$0.00	$8.19	$0.00	$57.25
5	70.00	$41.69	$10.35	$12.00	$8.82	$0.00	$72.86
6	75.00	$44.67	$10.35	$12.00	$9.45	$0.00	$76.47
7	80.00	$47.65	$10.35	$12.00	$10.08	$0.00	$80.08
8	90.00	$53.60	$10.35	$12.00	$11.34	$0.00	$87.29

Apprentice to Journeyworker Ratio: 1:1

PAINTER (SPRAY OR SANDBLAST, NEW) * * If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$42.03	$10.35	$12.00	$8.35	$0.00	$72.73

Apprentice: PAINTER (SPRAY OR SANDBLAST, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$21.02	$10.35	$0.00	$0.00	$0.00	$31.37
2	55.00	$23.12	$10.35	$0.00	$4.59	$0.00	$38.06
3	60.00	$25.22	$10.35	$0.00	$5.01	$0.00	$40.58

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: PAINTER (SPRAY OR SANDBLAST, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
4	65.00	$27.32	$10.35	$0.00	$5.43	$0.00	$43.10
5	70.00	$29.42	$10.35	$12.00	$5.85	$0.00	$57.62
6	75.00	$31.52	$10.35	$12.00	$6.26	$0.00	$60.13
7	80.00	$33.62	$10.35	$12.00	$6.68	$0.00	$62.65
8	90.00	$37.83	$10.35	$12.00	$7.52	$0.00	$67.70

Apprentice to Journeyworker Ratio: 1:1

PAINTER (SPRAY OR SANDBLAST, REPAINT) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$39.35	$10.35	$12.00	$8.35	$0.00	$70.05

Apprentice: PAINTER (SPRAY OR SANDBLAST, REPAINT)

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$19.68	$10.35	$0.00	$0.00	$0.00	$30.03
2	55.00	$21.64	$10.35	$0.00	$4.59	$0.00	$36.58
3	60.00	$23.61	$10.35	$0.00	$5.01	$0.00	$38.97
4	65.00	$25.58	$10.35	$0.00	$5.43	$0.00	$41.36
5	70.00	$27.55	$10.35	$12.00	$5.85	$0.00	$55.75
6	75.00	$29.51	$10.35	$12.00	$6.26	$0.00	$58.12
7	80.00	$31.48	$10.35	$12.00	$6.68	$0.00	$60.51
8	90.00	$35.42	$10.35	$12.00	$7.52	$0.00	$65.29

Apprentice to Journeyworker Ratio: 1:1

PAINTER / TAPER (BRUSH, NEW) * * If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$40.63	$10.35	$12.00	$8.35	$0.00	$71.33

Apprentice: PAINTER / TAPER (BRUSH, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$20.32	$10.35	$0.00	$0.00	$0.00	$30.67
2	55.00	$22.35	$10.35	$0.00	$4.59	$0.00	$37.29
3	60.00	$24.38	$10.35	$0.00	$5.01	$0.00	$39.74
4	65.00	$26.41	$10.35	$0.00	$5.43	$0.00	$42.19
5	70.00	$28.44	$10.35	$12.00	$5.85	$0.00	$56.64
6	75.00	$30.47	$10.35	$12.00	$6.26	$0.00	$59.08
7	80.00	$32.50	$10.35	$12.00	$6.68	$0.00	$61.53

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: PAINTER / TAPER (BRUSH, NEW) *							
Effective Date: 1/1/2026							
Step / Percent		**Apprentice Base Wage**					
8 / 90.00		$36.57	$10.35	$12.00	$7.52	$0.00	$66.44
Apprentice to Journeyworker Ratio: 1:1							
PAINTER / TAPER (BRUSH, REPAINT) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$37.95	$10.35	$12.00	$8.35	$0.00	$68.65
Apprentice: PAINTER / TAPER (BRUSH, REPAINT)							
Effective Date: 1/1/2026							
Step / Percent		**Apprentice Base Wage**					
1 / 50.00		$18.98	$10.35	$0.00	$0.00	$0.00	$29.33
2 / 55.00		$20.87	$10.35	$0.00	$4.59	$0.00	$35.81
3 / 60.00		$22.77	$10.35	$0.00	$5.01	$0.00	$38.13
4 / 65.00		$24.67	$10.35	$0.00	$5.43	$0.00	$40.45
5 / 70.00		$26.57	$10.35	$12.00	$5.85	$0.00	$54.77
6 / 75.00		$28.46	$10.35	$12.00	$6.26	$0.00	$57.07
7 / 80.00		$30.36	$10.35	$12.00	$6.68	$0.00	$59.39
8 / 90.00		$34.16	$10.35	$12.00	$7.52	$0.00	$64.03
Apprentice to Journeyworker Ratio: 1:1							
PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.00	$10.90	$9.75	$6.60	$0.00	$64.25
	12/1/2026	$38.29	$10.90	$9.75	$6.60	$0.00	$65.54
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
PANEL & PICKUP TRUCKS DRIVER TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$41.78	$16.17	$21.78	$0.00	$0.00	$79.73
	12/1/2026	$41.78	$16.17	$23.52	$0.00	$0.00	$81.47
	1/1/2027	$41.78	$16.77	$23.52	$0.00	$0.00	$82.07
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK) PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
For apprentice rates see "Apprentice- PILE DRIVER"							
PILE DRIVER PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
Apprentice: PILE DRIVER							
Effective Date: 8/1/2024							
Step / Percent		**Apprentice Base Wage**					

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: PILE DRIVER							
Effective Date: 8/1/2024							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
1 / 45.00		$22.14	$10.08	$0.00	$2.53	$0.00	$34.75
2 / 55.00		$27.05	$10.08	$0.00	$5.07	$0.00	$42.20
3 / 70.00		$34.43	$10.08	$11.62	$7.60	$0.00	$63.73
4 / 80.00		$39.35	$10.08	$11.62	$10.14	$0.00	$71.19
Apprentice to Journeyworker Ratio: 1:5							
PIPELAYER	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
PIPELAYER (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PLUMBER & PIPEFITTER	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
Apprentice: PLUMBER & PIPEFITTER							
Effective Date: 3/17/2026							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
1 / 45.00		$23.74	$13.50	$10.85	$0.00	$0.00	$48.09
2 / 50.00		$26.38	$13.50	$10.85	$0.00	$0.00	$50.73
3 / 55.00		$29.02	$13.50	$10.85	$0.00	$0.00	$53.37
4 / 60.00		$31.66	$13.50	$10.85	$0.00	$0.00	$56.01

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: PLUMBER & PIPEFITTER

Effective Date: 3/17/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
5	65.00	$34.29	$13.50	$10.85	$0.00	$0.00	$58.64
6	70.00	$36.93	$13.50	$10.85	$0.00	$0.00	$61.28
7	75.00	$39.57	$13.50	$10.85	$0.00	$0.00	$63.92
8	80.00	$42.21	$13.50	$10.85	$0.00	$0.00	$66.56
9	85.00	$44.85	$13.50	$10.85	$7.10	$0.00	$76.30
10	85.00	$44.85	$13.50	$10.85	$7.10	$0.00	$76.30

Apprentice: PLUMBER & PIPEFITTER

Effective Date: 9/17/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$24.64	$13.50	$0.00	$0.00	$0.00	$38.14
2	50.00	$27.38	$13.50	$0.00	$0.00	$0.00	$40.88
3	55.00	$30.12	$13.50	$0.00	$0.00	$0.00	$43.62
4	60.00	$32.86	$13.50	$0.00	$0.00	$0.00	$46.36
5	65.00	$35.59	$13.50	$0.00	$0.00	$0.00	$49.09
6	70.00	$38.33	$13.50	$0.00	$0.00	$0.00	$51.83
7	75.00	$41.07	$13.50	$0.00	$0.00	$0.00	$54.57
8	80.00	$43.81	$13.50	$0.00	$0.00	$0.00	$57.31
9	85.00	$46.55	$13.50	$0.00	$7.10	$0.00	$67.15
10	85.00	$46.55	$13.50	$0.00	$7.10	$0.00	$67.15

Apprentice Notes

**1:1,2:5,3:9,4:12

Apprentice to Journeyworker Ratio: 1:1

PNEUMATIC CONTROLS (TEMP.) PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
POWDERMAN & BLASTER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$37.22	$10.90	$9.75	$6.60	$0.00	$64.47
	12/1/2026	$39.64	$10.90	$9.75	$6.60	$0.00	$66.89
	6/1/2027	$41.04	$10.90	$9.75	$6.60	$0.00	$68.29

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	12/1/2027	$42.44	$10.90	$9.75	$6.60	$0.00	$69.69
	6/1/2028	$43.94	$10.90	$9.75	$6.60	$0.00	$71.19
	12/1/2028	$45.44	$10.90	$9.75	$6.60	$0.00	$72.69
For apprentice rates see "Apprentice- LABORER"							
POWDERMAN & BLASTER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$38.00	$10.90	$9.75	$6.60	$0.00	$65.25
	12/1/2026	$39.29	$10.90	$9.75	$6.60	$0.00	$66.54
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PUMP OPERATOR (CONCRETE) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
PUMP OPERATOR (DEWATERING, OTHER) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
READY-MIX CONCRETE DRIVER TEAMSTERS 404 - Construction Service (Northampton) TEAMSTERS 404 - Construction Service (Northampton)	5/1/2024	$26.14	$11.82	$7.25	$0.00	$0.00	$45.21
RIDE-ON MOTORIZED BUGGY OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
ROLLER OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$38.42	$13.78	$12.15	$3.00	$0.00	$67.35
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
ROOFER (Coal tar pitch) ROOFERS LOCAL 248 ROOFERS LOCAL 248	7/16/2026	$46.73	$10.60	$8.70	$10.00	$0.00	$76.03
For apprentice rates see "Apprentice- ROOFER"							
ROOFER (Inc.Roofer Waterproofng &Roofer Damproofg) ROOFERS LOCAL 248 ROOFERS LOCAL 248	7/16/2026	$46.23	$10.60	$8.70	$10.00	$0.00	$75.53

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
ROOFER SLATE / TILE / PRECAST CONCRETE ROOFERS LOCAL 248 ROOFERS LOCAL 248 For apprentice rates see "Apprentice- ROOFER"	7/16/2026	$46.73	$10.60	$8.70	$10.00	$0.00	$76.03
SCRAPER OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
SELF-POWERED ROLLERS AND COMPACTORS (TAMPERS) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$38.42	$13.78	$12.15	$3.00	$0.00	$67.35
SELF-PROPELLED POWER BROOM OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$35.80	$13.78	$12.15	$3.00	$0.00	$64.73
SHEETMETAL WORKER SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	$43.48	$13.24	$11.01	$9.92	$2.13	$79.78
	1/1/2027	$43.48	$13.54	$11.01	$11.12	$2.13	$81.28
	7/1/2027	$44.98	$13.54	$11.01	$11.12	$2.13	$82.78
	1/1/2028	$46.48	$13.54	$11.01	$11.12	$2.13	$84.28

Apprentice: SHEETMETAL WORKER

Effective Date: 7/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.57	$5.96	$4.95	$0.00	$0.85	$31.33
2	50.00	$21.74	$6.62	$5.51	$0.00	$0.94	$34.81
3	55.00	$23.91	$7.28	$9.91	$0.00	$1.15	$42.25
4	60.00	$26.09	$7.94	$9.91	$0.00	$1.23	$45.17
5	65.00	$28.26	$8.60	$9.91	$0.00	$1.31	$48.08
6	70.00	$30.44	$9.27	$9.91	$0.00	$1.39	$51.01
7	75.00	$32.61	$9.93	$9.91	$0.00	$1.47	$53.92
8	80.00	$34.78	$10.59	$9.91	$9.92	$1.78	$66.98
9	85.00	$36.96	$11.25	$9.91	$9.92	$1.86	$69.90
10	90.00	$39.13	$11.92	$9.91	$9.92	$1.94	$72.82

Apprentice: SHEETMETAL WORKER

Effective Date: 1/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.57	$6.09	$4.95	$0.00	$0.85	$31.46
2	50.00	$21.74	$6.77	$5.51	$0.00	$0.94	$34.96
3	55.00	$23.91	$7.45	$9.91	$0.00	$1.15	$42.42
4	60.00	$26.09	$8.36	$9.91	$0.00	$1.23	$45.59
5	65.00	$28.26	$8.86	$9.91	$0.00	$1.31	$48.34

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: SHEETMETAL WORKER							
Effective Date: 1/1/2027							
Step / Percent		**Apprentice Base Wage**					
6 / 70.00		$30.44	$9.48	$9.91	$0.00	$1.39	$51.22
7 / 75.00		$32.61	$10.15	$9.91	$0.00	$1.47	$54.14
8 / 80.00		$34.78	$10.83	$9.91	$11.12	$1.78	$68.42
9 / 85.00		$36.96	$11.51	$9.91	$11.12	$1.86	$71.36
10 / 90.00		$39.13	$12.18	$9.91	$11.12	$1.94	$74.28
Apprentice to Journeyworker Ratio: 1:3							
SPECIALIZED EARTH MOVING EQUIP < 35 TONS	6/1/2026	$42.24	$16.17	$21.78	$0.00	$0.00	$80.19
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	$42.24	$16.17	$23.52	$0.00	$0.00	$81.93
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	$42.24	$16.77	$23.52	$0.00	$0.00	$82.53
SPECIALIZED EARTH MOVING EQUIP > 35 TONS	6/1/2026	$42.53	$16.17	$21.78	$0.00	$0.00	$80.48
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	$42.53	$16.17	$23.52	$0.00	$0.00	$82.22
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	$42.53	$16.77	$23.52	$0.00	$0.00	$82.82
SPRINKLER FITTER	7/1/2026	$56.54	$13.60	$7.45	$9.41	$0.00	$87.00
SPRINKLER FITTERS LOCAL 669	10/1/2026	$56.54	$13.60	$7.45	$9.41	$0.00	$87.00
SPRINKLER FITTERS LOCAL 669	1/1/2027	$56.54	$14.55	$7.50	$9.41	$0.00	$88.00
	4/1/2027	$59.83	$14.55	$7.50	$9.41	$0.00	$91.29
	7/1/2027	$59.83	$14.55	$7.50	$9.41	$0.00	$91.29
	10/1/2027	$59.83	$14.55	$7.50	$9.41	$0.00	$91.29
	1/1/2028	$59.83	$15.50	$7.55	$9.41	$0.00	$92.29

Apprentice: SPRINKLER FITTER

Effective Date: 7/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	43.00	$28.36	$9.64	$0.00	$0.00	$0.00	$38.00
2	48.00	$31.66	$9.64	$0.00	$0.00	$0.00	$41.30
3	52.00	$34.29	$13.60	$7.45	$1.15	$0.00	$56.49
4	56.00	$36.93	$13.60	$7.45	$1.15	$0.00	$59.13
5	59.00	$38.91	$13.60	$7.45	$1.40	$0.00	$61.36
6	64.00	$42.21	$13.60	$7.45	$1.40	$0.00	$64.66
7	68.00	$44.85	$13.60	$7.45	$1.40	$0.00	$67.30
8	72.00	$47.48	$13.60	$7.45	$1.40	$0.00	$69.93
9	76.00	$50.12	$13.60	$7.45	$1.40	$0.00	$72.57
10	80.00	$52.76	$13.60	$7.45	$1.40	$0.00	$75.21

Apprentice: SPRINKLER FITTER

Effective Date: 10/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: SPRINKLER FITTER

Effective Date: 10/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	43.00	$28.36	$0.00	$0.00	$0.00	$0.00	$28.36
2	48.00	$31.66	$0.00	$0.00	$0.00	$0.00	$31.66
3	52.00	$34.29	$0.00	$0.00	$1.15	$0.00	$35.44
4	56.00	$36.93	$0.00	$0.00	$1.15	$0.00	$38.08
5	59.00	$38.91	$0.00	$0.00	$1.40	$0.00	$40.31
6	64.00	$42.21	$0.00	$0.00	$1.40	$0.00	$43.61
7	68.00	$44.85	$0.00	$0.00	$1.40	$0.00	$46.25
8	72.00	$47.48	$0.00	$0.00	$1.40	$0.00	$48.88
9	76.00	$50.12	$0.00	$0.00	$1.40	$0.00	$51.52
10	80.00	$52.76	$0.00	$0.00	$1.40	$0.00	$54.16

Apprentice to Journeyworker Ratio: 1:1

TELECOMMUNICATION TECHNICIAN ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
TELECOMMUNICATION TECHNICIAN ELECTRICIANS LOCAL 7	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37

For apprentice rates and ratios see "Apprentice- ELECTRICIAN"

Apprentice: TELECOMMUNICATION TECHNICIAN

Effective Date: 6/28/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	$21.76	$7.80	$0.63	$0.00	$0.00	$30.19
2	45.00	$24.48	$7.80	$0.70	$0.00	$0.00	$32.98
3	50.00	$27.21	$14.00	$7.53	$0.00	$0.00	$48.74
4	55.00	$29.93	$14.00	$7.61	$0.00	$0.00	$51.54
5	65.00	$35.37	$14.00	$9.84	$0.00	$0.00	$59.21
6	70.00	$38.09	$14.00	$11.30	$0.00	$0.00	$63.39

Apprentice: TELECOMMUNICATION TECHNICIAN

Effective Date: 1/3/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	$22.22	$7.95	$0.63	$0.00	$0.00	$30.80
2	45.00	$25.00	$7.95	$0.70	$0.00	$0.00	$33.65
3	50.00	$27.78	$14.25	$7.53	$0.00	$0.00	$49.56
4	55.00	$30.56	$14.25	$7.61	$0.00	$0.00	$52.42
5	65.00	$36.11	$14.25	$9.84	$0.00	$0.00	$60.20
6	70.00	$38.89	$14.25	$11.30	$0.00	$0.00	$64.44

Apprentice to Journeyworker Ratio: 1:1

TERRAZZO FINISHERS	2/10/2026	$66.89	$12.84	$15.57	$8.02	$0.00	$103.32

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BRICKLAYERS LOCAL 3	8/1/2026	$69.09	$12.84	$15.57	$8.02	$0.00	$105.52
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/1/2027	$70.49	$12.84	$15.57	$8.02	$0.00	$106.92

Apprentice: TERRAZZO FINISHERS

Effective Date: 2/10/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$33.45	$12.84	$15.57	$8.02	$0.00	$69.88
2	60.00	$40.13	$12.84	$15.57	$8.02	$0.00	$76.56
3	70.00	$46.82	$12.84	$15.57	$8.02	$0.00	$83.25
4	80.00	$53.51	$12.84	$15.57	$8.02	$0.00	$89.94
5	90.00	$60.20	$12.84	$15.57	$8.02	$0.00	$96.63

Apprentice: TERRAZZO FINISHERS

Effective Date: 8/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$34.55	$12.84	$15.57	$8.02	$0.00	$70.98
2	60.00	$41.45	$12.84	$15.57	$8.02	$0.00	$77.88
3	70.00	$48.36	$12.84	$15.57	$8.02	$0.00	$84.79
4	80.00	$55.27	$12.84	$15.57	$8.02	$0.00	$91.70
5	90.00	$62.18	$12.84	$15.57	$8.02	$0.00	$98.61

Apprentice to Journeyworker Ratio: 1:5

TERRAZZO MECHANIC	2/1/2026	$67.97	$12.84	$15.57	$7.99	$0.00	$104.37
BRICKLAYERS LOCAL 3	8/1/2026	$70.17	$12.84	$15.57	$7.99	$0.00	$106.57
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/1/2027	$71.57	$12.84	$15.57	$7.99	$0.00	$107.97

Apprentice: TERRAZZO MECHANIC

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$33.99	$12.84	$15.57	$7.99	$0.00	$70.39
2	60.00	$40.78	$12.84	$15.57	$7.99	$0.00	$77.18
3	70.00	$47.58	$12.84	$15.57	$7.99	$0.00	$83.98
4	80.00	$54.38	$12.84	$15.57	$7.99	$0.00	$90.78
5	90.00	$61.17	$12.84	$15.57	$7.99	$0.00	$97.57

Apprentice: TERRAZZO MECHANIC

Effective Date: 8/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$35.09	$12.84	$15.57	$7.99	$0.00	$71.49
2	60.00	$42.10	$12.84	$15.57	$7.99	$0.00	$78.50

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: TERRAZZO MECHANIC							
Effective Date: 8/1/2026							
Step / Percent		**Apprentice Base Wage**					
3 / 70.00		$49.12	$12.84	$15.57	$7.99	$0.00	$85.52
4 / 80.00		$56.14	$12.84	$15.57	$7.99	$0.00	$92.54
5 / 90.00		$63.15	$12.84	$15.57	$7.99	$0.00	$99.55
Apprentice to Journeyworker Ratio: 1:5							
TEST BORING DRILLER	6/1/2026	$53.25	$10.90	$9.75	$9.80	$0.00	$83.70
LABORERS LABORERS - FOUNDATION AND MARINE	12/1/2026	$54.75	$10.90	$9.75	$9.80	$0.00	$85.20
For apprentice rates see "Apprentice- LABORER"							
TEST BORING DRILLER HELPER	6/1/2026	$49.37	$10.90	$9.75	$9.80	$0.00	$79.82
LABORERS LABORERS - FOUNDATION AND MARINE	12/1/2026	$50.87	$10.90	$9.75	$9.80	$0.00	$81.32
For apprentice rates see "Apprentice- LABORER"							
TEST BORING LABORER	6/1/2026	$49.25	$10.90	$9.75	$9.80	$0.00	$79.70
LABORERS LABORERS - FOUNDATION AND MARINE	12/1/2026	$50.75	$10.90	$9.75	$9.80	$0.00	$81.20
For apprentice rates see "Apprentice- LABORER"							
TRACTORS	12/1/2023	$38.42	$13.78	$12.15	$3.00	$0.00	$67.35
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
TRAILERS FOR EARTH MOVING EQUIPMENT	6/1/2026	$42.82	$16.17	$21.78	$0.00	$0.00	$80.77
TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	12/1/2026	$42.82	$16.17	$23.52	$0.00	$0.00	$82.51
	1/1/2027	$42.82	$16.77	$23.52	$0.00	$0.00	$83.11
TUNNEL WORK - COMPRESSED AIR	6/1/2026	$61.48	$10.90	$9.75	$10.25	$0.00	$92.38
LABORERS LABORERS (COMPRESSED AIR)	12/1/2026	$62.98	$10.90	$9.75	$10.25	$0.00	$93.88
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE)	6/1/2026	$63.48	$10.90	$9.75	$10.25	$0.00	$94.38
LABORERS LABORERS (COMPRESSED AIR)	12/1/2026	$64.98	$10.90	$9.75	$10.25	$0.00	$95.88
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - FREE AIR	6/1/2026	$53.55	$10.90	$9.75	$10.25	$0.00	$84.45
LABORERS LABORERS (FREE AIR TUNNEL)	12/1/2026	$55.05	$10.90	$9.75	$10.25	$0.00	$85.95
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - FREE AIR (HAZ. WASTE)	6/1/2026	$55.55	$10.90	$9.75	$10.25	$0.00	$86.45
LABORERS LABORERS (FREE AIR TUNNEL)	12/1/2026	$57.05	$10.90	$9.75	$10.25	$0.00	$87.95
For apprentice rates see "Apprentice- LABORER"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
VAC-HAUL	6/1/2026	$42.24	$16.17	$21.78	$0.00	$0.00	$80.19
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	$42.24	$16.17	$23.52	$0.00	$0.00	$81.93
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	$42.24	$16.77	$23.52	$0.00	$0.00	$82.53
WAGON DRILL OPERATOR (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
LABORERS	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
LABORERS - ZONE 4 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
WATER METER INSTALLER	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
PLUMBERS & PIPEFITTERS LOCAL 104	9/17/2026	$56.26	$12.00	$10.85	$7.10	$0.00	$86.21
PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"							

Marine Drilling

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BLASTER MARINE DRILLING MARINE DRILLING	1/1/2018	$41.82	$7.63	$2.35	$1.25	$0.00	$53.05
BOAT CAPTAIN MARINE DRILLING MARINE DRILLING	1/1/2018	$33.87	$7.63	$2.35	$0.95	$0.00	$44.80
BOAT CAPTAIN / Over 1,000 hp MARINE DRILLING MARINE DRILLING	1/1/2018	$38.06	$7.63	$2.35	$1.25	$0.00	$49.29
CORE DRILLER MARINE DRILLING MARINE DRILLING	1/1/2018	$31.43	$7.63	$2.25	$0.65	$0.00	$41.96
CORE DRILLER HELPER MARINE DRILLING MARINE DRILLING	1/1/2018	$28.47	$7.63	$2.35	$0.65	$0.00	$39.10
DRILLER MARINE DRILLING MARINE DRILLING	1/1/2018	$39.70	$7.63	$2.35	$1.25	$0.00	$50.93
ENGINEER MARINE DRILLING MARINE DRILLING	1/1/2018	$39.69	$7.63	$2.25	$1.25	$0.00	$50.82
HELPER MARINE DRILLING MARINE DRILLING	1/1/2018	$34.24	$7.63	$2.35	$0.65	$0.00	$44.87
MACHINIST MARINE DRILLING MARINE DRILLING	1/1/2018	$38.88	$7.63	$2.35	$0.95	$0.00	$49.81
OILER - MARINE DRILLING MARINE DRILLING MARINE DRILLING	1/1/2018	$34.24	$7.63	$2.35	$0.65	$0.00	$44.87
TUG DECKHAND MARINE DRILLING MARINE DRILLING	1/1/2018	$27.61	$7.63	$2.35	$0.65	$0.00	$38.24
WELDER MARINE DRILLING MARINE DRILLING	1/1/2018	$38.88	$7.63	$2.35	$0.95	$0.00	$49.81

Op Eng Marine (Dredging Work)

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BOAT OPERATOR OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$29.26	$7.63	$2.35	$0.95	$0.00	$40.19
CERTIFIED WELDER OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$31.09	$7.63	$2.35	$1.25	$0.00	$42.32
CHIEF WELDER/ CHIEF MATE OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$33.02	$7.63	$2.35	$1.25	$0.00	$44.25
DERRICK / SPIDER / SPILLBARGE OPERATOR OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$33.02	$7.63	$2.35	$1.25	$0.00	$44.25
DRAG BARGE OPERATOR / WELDER / MATE OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$30.24	$7.63	$2.35	$0.95	$0.00	$41.17
ENGINEER / ELECTRICIAN OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$33.02	$7.63	$2.35	$1.25	$0.00	$44.25
LICENSED BOAT OPERATOR OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$33.02	$7.63	$2.35	$1.25	$0.00	$44.25
LICENSED TUG OPERATOR OVER 1000HP OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$38.18	$7.63	$2.35	$1.25	$0.00	$49.41
MAINTENANCE ENGINEER OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$33.03	$7.63	$2.35	$1.25	$0.00	$44.26
OILER - MARINE DIVISION OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$24.30	$7.63	$2.35	$0.65	$0.00	$34.93
OPERATOR / LEVERMAN OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$38.18	$7.63	$2.35	$1.25	$0.00	$49.41
RODMAN / SCOWMAN OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$24.30	$7.63	$2.35	$0.65	$0.00	$34.93
SHOREMAN / DECKHAND OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$24.30	$7.63	$2.35	$0.65	$0.00	$34.93

Additional Apprentice Information

All apprentices must be registered with the Division of Apprenticeship Training(DAS) in accordance with M.G.L.c. 23, §§ 11E-11L. Minimum wage rates for apprentices employed on public works projects are listed above as a percentage of the hourly prevailing wage rate established by the Commissioner under the provisions of M.G.L.c. 149, §§ 26-27D.

Apprentice ratios are established by DAS pursuant to M.G.L.c. 23, §§ 11E-11L. Ratios are expressed as the allowable number of apprentices to journeymen or fraction thereof, unless otherwise specified. The ratios listed herein have been taken from relevant private collective bargaining agreements(CBAs) and are provided for illustrative purposes only. They have not been independently verified as being accurate or continuing to be accurate.

Parties having questions regarding what ratio to use should contact DAS.

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

MAURA HEALEY
Governor
KIM DRISCOLL
Lt. Governor

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:	Massachusetts Highway	**City/Town:**	CONWAY
Contract Number:	135581		
Description of Work:	ASHFIELD-CHARLEMONT-CONWAY-HAWLEY – Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 1)		
Job Location:	Municipal Bridges at Multiple locations		

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 form 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.

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
(2 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$41.95	$16.17	$21.78	$0.00	$0.00	$79.90
	12/1/2026	$41.95	$16.17	$23.52	$0.00	$0.00	$81.64
	1/1/2027	$41.95	$16.77	$23.52	$0.00	$0.00	$82.24
(3 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.02	$16.17	$21.78	$0.00	$0.00	$79.97
	12/1/2026	$42.02	$16.17	$23.52	$0.00	$0.00	$81.71
	1/1/2027	$42.02	$16.77	$23.52	$0.00	$0.00	$82.31
(4 & 5 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.14	$16.17	$21.78	$0.00	$0.00	$80.09
	12/1/2026	$42.14	$16.17	$23.52	$0.00	$0.00	$81.83
	1/1/2027	$42.14	$16.77	$23.52	$0.00	$0.00	$82.43
ADS/SUBMERSIBLE PILOT PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3) For apprentice rates see "Apprentice- PILE DRIVER"	8/1/2024	$117.16	$10.08	$11.62	$12.67	$0.00	$151.53
AIR TRACK OPERATOR LABORERS LABORERS - ZONE 3 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$37.75	$10.90	$9.75	$8.62	$0.00	$67.02
	12/7/2026	$39.05	$10.90	$9.75	$8.62	$0.00	$68.32
	6/7/2027	$40.45	$10.90	$9.75	$8.62	$0.00	$69.72
	12/6/2027	$41.85	$10.90	$9.75	$8.62	$0.00	$71.12
	6/5/2028	$43.35	$10.90	$9.75	$8.62	$0.00	$72.62
	12/4/2028	$44.85	$10.90	$9.75	$8.62	$0.00	$74.12
AIR TRACK OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 3 (HEAVY & HIGHWAY) For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"	6/1/2026	$37.74	$10.90	$9.75	$6.60	$0.00	$64.99
	12/1/2026	$39.03	$10.90	$9.75	$6.60	$0.00	$66.28
ASBESTOS WORKER (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)	12/1/2025	$40.32	$14.50	$4.30	$6.25	$0.00	$65.37
ASPHALT RAKER LABORERS LABORERS - ZONE 3 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$37.25	$10.90	$9.75	$8.62	$0.00	$66.52
	12/7/2026	$38.55	$10.90	$9.75	$8.62	$0.00	$67.82
	6/7/2027	$39.95	$10.90	$9.75	$8.62	$0.00	$69.22
	12/6/2027	$41.35	$10.90	$9.75	$8.62	$0.00	$70.62
	6/5/2028	$42.85	$10.90	$9.75	$8.62	$0.00	$72.12
	12/4/2028	$44.35	$10.90	$9.75	$8.62	$0.00	$73.62
ASPHALT RAKER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 3 (HEAVY & HIGHWAY) For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"	6/1/2026	$37.24	$10.90	$9.75	$6.60	$0.00	$64.49
	12/1/2026	$38.53	$10.90	$9.75	$6.60	$0.00	$65.78
AUTOMATIC GRADER-EXCAVATOR (RECLAIMER) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BACKHOE/FRONT-END LOADER OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
BARCO-TYPE JUMPING TAMPER LABORERS LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	$37.25	$10.90	$9.75	$8.62	$0.00	$66.52
	12/7/2026	$38.55	$10.90	$9.75	$8.62	$0.00	$67.82
	6/7/2027	$39.95	$10.90	$9.75	$8.62	$0.00	$69.22
	12/6/2027	$41.35	$10.90	$9.75	$8.62	$0.00	$70.62
	6/5/2028	$42.85	$10.90	$9.75	$8.62	$0.00	$72.12
	12/4/2028	$44.35	$10.90	$9.75	$8.62	$0.00	$73.62
For apprentice rates see "Apprentice- LABORER"							
BATCH/CEMENT PLANT - ON SITE OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
BLOCK PAVER, RAMMER / CURB SETTER LABORERS LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	$37.75	$10.90	$9.75	$8.62	$0.00	$67.02
	12/7/2026	$39.05	$10.90	$9.75	$8.62	$0.00	$68.32
	6/7/2027	$40.45	$10.90	$9.75	$8.62	$0.00	$69.72
	12/6/2027	$41.85	$10.90	$9.75	$8.62	$0.00	$71.12
	6/5/2028	$43.35	$10.90	$9.75	$8.62	$0.00	$72.62
	12/4/2028	$44.85	$10.90	$9.75	$8.62	$0.00	$74.12
For apprentice rates see "Apprentice- LABORER"							
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	$37.74	$10.90	$9.75	$6.60	$0.00	$64.99
	12/1/2026	$39.03	$10.90	$9.75	$6.60	$0.00	$66.28
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
BOILER MAKER BOILERMAKERS LOCAL 29 BOILERMAKERS LOCAL 29	1/1/2024	$48.12	$7.07	$14.60	$6.00	$0.00	$75.79

Apprentice: BOILER MAKER

Effective Date: 1/1/2024

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	65.00	$31.28	$7.07	$9.32	$3.90	$0.00	$51.57
2	65.00	$31.28	$7.07	$9.32	$3.90	$0.00	$51.57
3	70.00	$33.68	$7.07	$10.03	$4.20	$0.00	$54.98
4	75.00	$36.09	$7.07	$10.74	$4.50	$0.00	$58.40
5	80.00	$38.50	$7.07	$11.45	$4.80	$0.00	$61.82
6	85.00	$40.90	$7.07	$12.18	$5.10	$0.00	$65.25
7	90.00	$43.31	$7.07	$12.88	$5.40	$0.00	$68.66
8	95.00	$45.71	$7.07	$13.62	$5.70	$0.00	$72.10

Apprentice to Journeyworker Ratio: 1:4

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING) BRICKLAYERS LOCAL 3 BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)	2/1/2026	$56.36	$12.84	$15.57	$5.89	$0.00	$90.66
	8/1/2026	$58.56	$12.84	$15.57	$5.89	$0.00	$92.86
	2/1/2027	$59.96	$12.84	$15.57	$5.89	$0.00	$94.26

Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$28.18	$12.84	$15.57	$5.89	$0.00	$62.48
2	60.00	$33.82	$12.84	$15.57	$5.89	$0.00	$68.12
3	70.00	$39.45	$12.84	$15.57	$5.89	$0.00	$73.75
4	80.00	$45.09	$12.84	$15.57	$5.89	$0.00	$79.39
5	90.00	$50.72	$12.84	$15.57	$5.89	$0.00	$85.02

Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)

Effective Date: 8/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$29.28	$12.84	$15.57	$5.89	$0.00	$63.58
2	60.00	$35.14	$12.84	$15.57	$5.89	$0.00	$69.44
3	70.00	$40.99	$12.84	$15.57	$5.89	$0.00	$75.29
4	80.00	$46.85	$12.84	$15.57	$5.89	$0.00	$81.15
5	90.00	$52.70	$12.84	$15.57	$5.89	$0.00	$87.00

Apprentice to Journeyworker Ratio: 1:5

BULLDOZER/POWER SHOVEL/TREE SHREDDER /CLAM SHELL OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

CAISSON & UNDERPINNING BOTTOM MAN LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$50.40	$10.90	$9.75	$9.80	$0.00	$80.85
	12/1/2026	$51.90	$10.90	$9.75	$9.80	$0.00	$82.35

For apprentice rates see "Apprentice- LABORER"

CAISSON & UNDERPINNING LABORER LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$49.25	$10.90	$9.75	$9.80	$0.00	$79.70
	12/1/2026	$50.75	$10.90	$9.75	$9.80	$0.00	$81.20

For apprentice rates see "Apprentice- LABORER"

CAISSON & UNDERPINNING TOP MAN LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$49.58	$10.90	$9.75	$9.80	$0.00	$80.03
	12/1/2026	$51.08	$10.90	$9.75	$9.80	$0.00	$81.53

For apprentice rates see "Apprentice- LABORER"

CARBIDE CORE DRILL OPERATOR LABORERS LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	$37.25	$10.90	$9.75	$8.62	$0.00	$66.52
	12/7/2026	$38.55	$10.90	$9.75	$8.62	$0.00	$67.82
	6/7/2027	$39.95	$10.90	$9.75	$8.62	$0.00	$69.22

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	12/6/2027	$41.35	$10.90	$9.75	$8.62	$0.00	$70.62
	6/5/2028	$42.85	$10.90	$9.75	$8.62	$0.00	$72.12
	12/4/2028	$44.35	$10.90	$9.75	$8.62	$0.00	$73.62

For apprentice rates see "Apprentice- LABORER"

CARPENTER	3/1/2026	$43.81	$9.19	$11.25	$6.90	$0.00	$71.15
CARPENTERS	9/1/2026	$44.76	$9.19	$11.25	$6.90	$0.00	$72.10
CARPENTERS LOCAL 336 - HAMPDEN HAMPSHIRE FRANKLIN	3/1/2027	$45.66	$9.19	$11.25	$6.90	$0.00	$73.00

Apprentice: CARPENTER

Effective Date: 3/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.71	$9.19	$0.00	$1.38	$0.00	$30.28
2	45.00	$19.71	$1.28	$0.00	$1.38	$0.00	$22.37
3	55.00	$24.10	$9.19	$0.00	$2.76	$0.00	$36.05
4	55.00	$24.10	$9.19	$0.00	$2.76	$0.00	$36.05
5	70.00	$30.67	$9.19	$11.25	$4.14	$0.00	$55.25
6	70.00	$30.67	$9.19	$11.25	$4.14	$0.00	$55.25
7	80.00	$35.05	$9.19	$11.25	$5.52	$0.00	$61.01
8	80.00	$35.05	$9.19	$11.25	$5.52	$0.00	$61.01

Apprentice: CARPENTER

Effective Date: 9/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$20.14	$9.19	$0.00	$1.38	$0.00	$30.71
2	45.00	$20.14	$9.19	$0.00	$1.38	$0.00	$30.71
3	55.00	$24.62	$9.19	$0.00	$2.76	$0.00	$36.57
4	55.00	$24.62	$9.19	$0.00	$2.76	$0.00	$36.57
5	70.00	$31.33	$9.19	$11.25	$4.14	$0.00	$55.91
6	70.00	$31.33	$9.19	$11.25	$4.14	$0.00	$55.91
7	80.00	$35.81	$9.19	$11.25	$5.52	$0.00	$61.77
8	80.00	$35.81	$9.19	$11.25	$5.52	$0.00	$61.77

Apprentice to Journeyworker Ratio: 1:5

CARPENTER WOOD FRAME	10/1/2025	$27.37	$7.38	$4.47	$1.00	$0.00	$40.22
CARPENTERS	10/1/2026	$28.47	$7.38	$4.47	$1.00	$0.00	$41.32
CARPENTERS-ZONE 3 (Wood Frame)							

All Aspects of New Wood Frame Work

Apprentice: CARPENTER WOOD FRAME

Effective Date: 10/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$16.42	$7.38	$0.00	$0.00	$0.00	$23.80

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: CARPENTER WOOD FRAME

Effective Date: 10/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
2	60.00	$16.42	$7.38	$0.00	$0.00	$0.00	$23.80
3	65.00	$17.79	$7.38	$0.00	$1.00	$0.00	$26.17
4	70.00	$19.16	$7.38	$0.00	$1.00	$0.00	$27.54
5	75.00	$20.53	$7.38	$3.80	$1.00	$0.00	$32.71
6	80.00	$21.90	$7.38	$3.80	$1.00	$0.00	$34.08
7	85.00	$23.26	$7.38	$3.80	$1.00	$0.00	$35.44
8	90.00	$24.63	$7.38	$3.80	$1.00	$0.00	$36.81

Apprentice: CARPENTER WOOD FRAME

Effective Date: 10/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$17.08	$7.38	$0.00	$0.00	$0.00	$24.46
2	60.00	$17.08	$7.38	$0.00	$0.00	$0.00	$24.46
3	65.00	$18.51	$7.38	$0.00	$1.00	$0.00	$26.89
4	70.00	$19.93	$7.38	$0.00	$1.00	$0.00	$28.31
5	75.00	$21.35	$7.38	$3.80	$1.00	$0.00	$33.53
6	80.00	$22.78	$7.38	$3.80	$1.00	$0.00	$34.96
7	85.00	$24.20	$7.38	$3.80	$1.00	$0.00	$36.38
8	90.00	$25.62	$7.38	$3.80	$1.00	$0.00	$37.80

Apprentice to Journeyworker Ratio: 1:5

CEMENT MASONRY/PLASTERING	7/1/2026	$49.32	$13.20	$16.30	$2.93	$1.69	$83.44
PLASTERERS AND CEMENT MASONS LOCAL 534	1/1/2027	$50.51	$13.20	$16.30	$2.93	$1.69	$84.63
Plasterers and Cement Masons - Zone 2	7/1/2027	$51.70	$13.20	$16.30	$2.93	$1.69	$85.82
	1/1/2028	$52.89	$13.20	$16.30	$2.93	$1.69	$87.01

Apprentice: CEMENT MASONRY/PLASTERING

Effective Date: 7/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$24.66	$13.20	$16.30	$0.00	$0.00	$54.16
2	60.00	$29.59	$13.20	$16.30	$2.93	$1.69	$63.71
3	65.00	$32.06	$13.20	$16.30	$2.93	$1.69	$66.18
4	70.00	$34.52	$13.20	$16.30	$2.93	$1.69	$68.64
5	75.00	$36.99	$13.20	$16.30	$2.93	$1.69	$71.11
6	80.00	$39.46	$13.20	$16.30	$2.93	$1.69	$73.58
7	90.00	$44.39	$13.20	$16.30	$2.93	$0.00	$76.82

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: CEMENT MASONRY/PLASTERING							
Effective Date: 1/1/2027							

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$25.26	$16.30	$16.30	$0.00	$0.00	$57.86
2	60.00	$30.31	$16.30	$16.30	$2.93	$1.69	$67.53
3	65.00	$32.83	$16.30	$16.30	$2.93	$1.69	$70.05
4	70.00	$35.36	$16.30	$16.30	$2.93	$1.69	$72.58
5	75.00	$37.88	$16.30	$16.30	$2.93	$1.69	$75.10
6	80.00	$40.41	$16.30	$16.30	$2.93	$1.69	$77.63
7	90.00	$45.46	$16.30	$16.30	$2.93	$0.00	$80.99

Apprentice to Journeyworker Ratio: 1:5

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
CHAIN SAW OPERATOR LABORERS LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	$37.25	$10.90	$9.75	$8.62	$0.00	$66.52
	12/7/2026	$38.55	$10.90	$9.75	$8.62	$0.00	$67.82
	6/7/2027	$39.95	$10.90	$9.75	$8.62	$0.00	$69.22
	12/6/2027	$41.35	$10.90	$9.75	$8.62	$0.00	$70.62
	6/5/2028	$42.85	$10.90	$9.75	$8.62	$0.00	$72.12
	12/4/2028	$44.35	$10.90	$9.75	$8.62	$0.00	$73.62
For apprentice rates see "Apprentice- LABORER"							
COMPRESSOR OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
CRANE OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$43.06	$13.78	$12.15	$3.00	$0.00	$71.99
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
DELEADER (BRIDGE) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$59.56	$10.35	$12.00	$12.60	$0.00	$94.51

Apprentice: DELEADER (BRIDGE)

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$29.78	$10.35	$0.00	$0.00	$0.00	$40.13
2	55.00	$32.76	$10.35	$0.00	$6.93	$0.00	$50.04
3	60.00	$35.74	$10.35	$0.00	$7.56	$0.00	$53.65
4	65.00	$38.71	$10.35	$0.00	$8.19	$0.00	$57.25
5	70.00	$41.69	$10.35	$12.00	$8.82	$0.00	$72.86
6	75.00	$44.67	$10.35	$12.00	$9.45	$0.00	$76.47
7	80.00	$47.65	$10.35	$12.00	$10.08	$0.00	$80.08
8	90.00	$53.60	$10.35	$12.00	$11.34	$0.00	$87.29

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice to Journeyworker Ratio: 1:1							
DEMO: ADZEMAN LABORERS LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	$49.30	$10.90	$9.75	$9.65	$0.00	$79.60
	12/7/2026	$50.80	$10.90	$9.75	$9.65	$0.00	$81.10
	6/7/2027	$52.40	$10.90	$9.75	$9.65	$0.00	$82.70
	12/6/2027	$54.00	$10.90	$9.75	$9.65	$0.00	$84.30
	6/5/2028	$55.68	$10.90	$9.75	$9.65	$0.00	$85.98
	12/4/2028	$57.35	$10.90	$9.75	$9.65	$0.00	$87.65
For apprentice rates see "Apprentice- LABORER"							
DEMO: BACKHOE/LOADER/HAMMER OPERATOR LABORERS LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	$50.30	$10.90	$9.75	$9.65	$0.00	$80.60
	12/7/2026	$51.80	$10.90	$9.75	$9.65	$0.00	$82.10
	6/7/2027	$53.40	$10.90	$9.75	$9.65	$0.00	$83.70
	12/6/2027	$55.00	$10.90	$9.75	$9.65	$0.00	$85.30
	6/5/2028	$56.68	$10.90	$9.75	$9.65	$0.00	$86.98
	12/4/2028	$58.35	$10.90	$9.75	$9.65	$0.00	$88.65
For apprentice rates see "Apprentice- LABORER"							
DEMO: BURNERS LABORERS LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	$50.05	$10.90	$9.75	$9.65	$0.00	$80.35
	12/7/2026	$51.55	$10.90	$9.75	$9.65	$0.00	$81.85
	6/7/2027	$53.15	$10.90	$9.75	$9.65	$0.00	$83.45
	12/6/2027	$54.75	$10.90	$9.75	$9.65	$0.00	$85.05
	6/5/2028	$56.43	$10.90	$9.75	$9.65	$0.00	$86.73
	12/4/2028	$58.10	$10.90	$9.75	$9.65	$0.00	$88.40
For apprentice rates see "Apprentice- LABORER"							
DEMO: CONCRETE CUTTER/SAWYER LABORERS LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	$50.30	$10.90	$9.75	$9.65	$0.00	$80.60
	12/7/2026	$51.80	$10.90	$9.75	$9.65	$0.00	$82.10
	6/7/2027	$53.40	$10.90	$9.75	$9.65	$0.00	$83.70
	12/6/2027	$55.00	$10.90	$9.75	$9.65	$0.00	$85.30
	6/5/2028	$56.68	$10.90	$9.75	$9.65	$0.00	$86.98
	12/4/2028	$58.35	$10.90	$9.75	$9.65	$0.00	$88.65
For apprentice rates see "Apprentice- LABORER"							
DEMO: JACKHAMMER OPERATOR LABORERS LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	$50.05	$10.90	$9.75	$9.65	$0.00	$80.35
	12/7/2026	$51.55	$10.90	$9.75	$9.65	$0.00	$81.85
	6/7/2027	$53.15	$10.90	$9.75	$9.65	$0.00	$83.45
	12/6/2027	$54.75	$10.90	$9.75	$9.65	$0.00	$85.05
	6/5/2028	$56.43	$10.90	$9.75	$9.65	$0.00	$86.73
	12/4/2028	$58.10	$10.90	$9.75	$9.65	$0.00	$88.40
For apprentice rates see "Apprentice- LABORER"							
DEMO: WRECKING LABORER LABORERS LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	$49.30	$10.90	$9.75	$9.65	$0.00	$79.60
	12/7/2026	$50.80	$10.90	$9.75	$9.65	$0.00	$81.10
	6/7/2027	$52.40	$10.90	$9.75	$9.65	$0.00	$82.70
	12/6/2027	$54.00	$10.90	$9.75	$9.65	$0.00	$84.30
	6/5/2028	$55.68	$10.90	$9.75	$9.65	$0.00	$85.98
	12/4/2028	$57.35	$10.90	$9.75	$9.65	$0.00	$87.65
For apprentice rates see "Apprentice- LABORER"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
DIVER PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$78.11	$10.08	$11.62	$12.67	$0.00	$112.48
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Diver wage 70/80/90 2A $69.83, 3A $91.79,4A $102.14 Total Rate							
DIVER TENDER PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Piledriver wage 70/80/90 2A $54.20, 3A $73.93,4A $82.05 Total Rate							
DIVER TENDER (EFFLUENT) PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$83.69	$10.08	$11.62	$12.67	$0.00	$118.06
For apprentice rates see "Apprentice- PILE DRIVER"							
DIVER/SLURRY (EFFLUENT) PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$117.16	$10.08	$11.62	$12.67	$0.00	$151.53
For apprentice rates see "Apprentice- PILE DRIVER"							
DRAWBRIDGE OPERATOR (Construction) DRAWBRIDGE - SEIU LOCAL 888 DRAWBRIDGE - SEIU LOCAL 888	7/1/2020	$26.77	$6.67	$3.93	$0.00	$0.16	$37.53
ELECTRICIAN (Including Core Drilling) ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37

Apprentice: ELECTRICIAN (Including Core Drilling)

Effective Date: 6/28/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	$21.76	$7.80	$0.63	$0.00	$0.00	$30.19
2	45.00	$24.48	$7.80	$0.70	$0.00	$0.00	$32.98
3	50.00	$27.21	$14.00	$7.53	$0.00	$0.00	$48.74
4	55.00	$29.93	$14.00	$7.61	$0.00	$0.00	$51.54
5	65.00	$35.37	$14.00	$9.84	$0.00	$0.00	$59.21
6	70.00	$38.09	$14.00	$11.30	$0.00	$0.00	$63.39

Apprentice: ELECTRICIAN (Including Core Drilling)

Effective Date: 1/3/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	$22.22	$7.95	$0.63	$0.00	$0.00	$30.80
2	45.00	$25.00	$7.95	$0.70	$0.00	$0.00	$33.65
3	50.00	$27.78	$14.25	$7.53	$0.00	$0.00	$49.56
4	55.00	$30.56	$14.25	$7.61	$0.00	$0.00	$52.42
5	65.00	$36.11	$14.25	$9.84	$0.00	$0.00	$60.20
6	70.00	$38.89	$14.25	$11.30	$0.00	$0.00	$64.44

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice to Journeyworker Ratio: 2:3							
ELEVATOR CONSTRUCTOR ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2026	$69.23	$16.38	$11.06	$10.70	$0.00	$107.37
ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2027	$72.23	$16.48	$11.16	$11.00	$0.00	$110.87

Apprentice: ELEVATOR CONSTRUCTOR

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$34.62	$16.38	$0.00	$0.00	$0.00	$51.00
2	55.00	$38.08	$16.38	$11.06	$10.70	$0.00	$76.22
3	65.00	$45.00	$16.38	$11.06	$10.70	$0.00	$83.14
4	70.00	$48.46	$16.38	$11.06	$10.70	$0.00	$86.60
5	80.00	$55.38	$16.38	$11.06	$10.70	$0.00	$93.52

Apprentice: ELEVATOR CONSTRUCTOR

Effective Date: 1/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$36.12	$16.48	$0.00	$0.00	$0.00	$52.60
2	55.00	$39.73	$16.48	$11.16	$11.00	$0.00	$78.37
3	65.00	$46.95	$16.48	$11.16	$11.00	$0.00	$85.59
4	70.00	$50.56	$16.48	$11.16	$11.00	$0.00	$89.20
5	80.00	$57.78	$16.48	$11.16	$11.00	$0.00	$96.42

Apprentice to Journeyworker Ratio: 1:1							
ELEVATOR CONSTRUCTOR HELPER ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2026	$48.46	$16.38	$11.06	$10.70	$0.00	$86.60
ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2027	$50.56	$16.48	$11.16	$11.00	$0.00	$89.20
For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"							
FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY) LABORERS	6/1/2026	$37.24	$10.90	$9.75	$6.60	$0.00	$64.49
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	12/1/2026	$38.53	$10.90	$9.75	$6.60	$0.00	$65.78
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
FIELD ENG.INST/ROD-BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$18.84	$4.80	$4.10	$0.00	$0.00	$27.74
FIELD ENG.PARTY CHIEF:BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$21.33	$4.80	$4.10	$0.00	$0.00	$30.23
FIELD ENG.SURVEY CHIEF-BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$22.33	$4.80	$4.10	$0.00	$0.00	$31.23

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
FIRE ALARM INSTALLER	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37

For apprentice rates see "Apprentice- ELECTRICIAN"

FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37

For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"

FIREMAN OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96

Apprentice: FIREMAN

Effective Date: 12/1/2023

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$23.42	$13.78	$12.15	$3.00	$0.00	$52.35
2	70.00	$27.32	$13.78	$12.15	$3.00	$0.00	$56.25
3	80.00	$31.22	$13.78	$12.15	$3.00	$0.00	$60.15
4	90.00	$35.13	$13.78	$12.15	$3.00	$0.00	$64.06

Apprentice to Journeyworker Ratio: 1:6

FLAGGER & SIGNALER (HEAVY & HIGHWAY)	6/1/2026	$29.21	$10.90	$9.75	$6.60	$0.00	$56.46
LABORERS LABORERS - ZONE 3 (HEAVY & HIGHWAY)	12/1/2026	$29.21	$10.90	$9.75	$6.60	$0.00	$56.46

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

FLOORCOVERER	3/1/2026	$44.34	$8.56	$11.25	$6.90	$0.00	$71.05
FLOORCOVERERS LOCAL 2168 FLOORCOVERERS LOCAL 2168 ZONE III	9/1/2026	$45.29	$8.56	$11.25	$6.90	$0.00	$72.00
	3/1/2027	$46.19	$8.56	$11.25	$6.90	$0.00	$72.90

Apprentice: FLOORCOVERER

Effective Date: 3/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.95	$8.56	$0.00	$1.38	$0.00	$29.89
2	45.00	$19.95	$8.56	$0.00	$1.38	$0.00	$29.89
3	55.00	$24.39	$8.56	$0.00	$2.76	$0.00	$35.71
4	55.00	$24.39	$8.56	$0.00	$2.76	$0.00	$35.71
5	70.00	$31.04	$8.56	$11.25	$4.14	$0.00	$54.99
6	70.00	$31.04	$8.56	$11.25	$4.14	$0.00	$54.99
7	80.00	$35.47	$8.56	$11.25	$5.52	$0.00	$60.80
8	80.00	$35.47	$8.56	$11.25	$5.52	$0.00	$60.80

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: FLOORCOVERER

Effective Date: 9/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$20.38	$8.56	$0.00	$1.38	$0.00	$30.32
2	45.00	$20.38	$8.56	$0.00	$1.38	$0.00	$30.32
3	55.00	$24.91	$8.56	$0.00	$2.76	$0.00	$36.23
4	55.00	$24.91	$8.56	$0.00	$2.76	$0.00	$36.23
5	70.00	$31.70	$8.56	$11.25	$4.14	$0.00	$55.65
6	70.00	$31.70	$8.56	$11.25	$4.14	$0.00	$55.65
7	80.00	$36.23	$8.56	$11.25	$5.52	$0.00	$61.56
8	80.00	$36.23	$8.56	$11.25	$5.52	$0.00	$61.56

Apprentice Notes

Steps are 750 hrs.

Apprentice to Journeyworker Ratio: 1:1

FORK LIFT OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.25	$13.78	$12.15	$3.00	$0.00	$68.18

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

GENERATORS/LIGHTING PLANTS OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$35.80	$13.78	$12.15	$3.00	$0.00	$64.73

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) GLAZIERS LOCAL 1333 GLAZIERS LOCAL 1333	6/1/2026	$44.73	$11.20	$8.40	$6.05	$0.00	$70.38
	6/1/2027	$46.73	$11.60	$8.55	$6.60	$0.00	$73.48
	6/1/2028	$48.73	$12.00	$8.70	$7.20	$0.00	$76.63

Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)

Effective Date: 6/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$22.37	$11.20	$8.40	$6.05	$0.00	$48.02
2	56.25	$25.16	$11.20	$8.40	$6.05	$0.00	$50.81
3	62.50	$27.96	$11.20	$8.40	$6.05	$0.00	$53.61
4	68.75	$30.75	$11.20	$8.40	$6.05	$0.00	$56.40
5	75.00	$33.55	$11.20	$8.40	$6.05	$0.00	$59.20
6	81.25	$36.34	$11.20	$8.40	$6.05	$0.00	$61.99
7	87.50	$39.14	$11.20	$8.40	$6.05	$0.00	$64.79
8	93.75	$41.93	$11.20	$8.40	$6.05	$0.00	$67.58

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)

Effective Date: 6/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$23.37	$11.60	$8.55	$6.60	$0.00	$50.12
2	56.25	$26.29	$11.60	$8.55	$6.60	$0.00	$53.04
3	62.50	$29.21	$11.60	$8.55	$6.60	$0.00	$55.96
4	68.75	$32.13	$11.60	$8.55	$6.60	$0.00	$58.88
5	75.00	$35.05	$11.60	$8.55	$6.60	$0.00	$61.80
6	81.25	$37.97	$11.60	$8.55	$6.60	$0.00	$64.72
7	87.50	$40.89	$11.60	$8.55	$6.60	$0.00	$67.64
8	93.75	$43.81	$11.60	$8.55	$6.60	$0.00	$70.56

Apprentice to Journeyworker Ratio: 3:1

GRADER/TRENCHING MACHINE/DERRICK OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
HVAC (DUCTWORK) SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	$43.48	$13.24	$11.01	$9.92	$2.13	$79.78
	1/1/2027	$43.48	$13.54	$11.01	$11.12	$2.13	$81.28
	7/1/2027	$44.98	$13.54	$11.01	$11.12	$2.13	$82.78
	1/1/2028	$46.48	$13.54	$11.01	$11.12	$2.13	$84.28
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- ELECTRICIAN"							
HVAC (TESTING AND BALANCING - AIR) SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	$43.48	$13.24	$11.01	$9.92	$2.13	$79.78
	1/1/2027	$43.48	$13.54	$11.01	$11.12	$2.13	$81.28
	7/1/2027	$44.98	$13.54	$11.01	$11.12	$2.13	$82.78
	1/1/2028	$46.48	$13.54	$11.01	$11.12	$2.13	$84.28
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (TESTING AND BALANCING -WATER) PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HVAC MECHANIC PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HYDRAULIC DRILLS (HEAVY & HIGHWAY)	6/1/2026	$37.74	$10.90	$9.75	$6.60	$0.00	$64.99
LABORERS LABORERS - ZONE 3 (HEAVY & HIGHWAY)	12/1/2026	$39.03	$10.90	$9.75	$6.60	$0.00	$66.28
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
INSULATOR (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)	9/1/2025	$48.27	$14.75	$9.52	$10.09	$0.00	$82.63
	9/1/2026	$51.01	$14.75	$9.52	$10.09	$0.00	$85.37

Apprentice: INSULATOR (PIPES & TANKS)

Effective Date: 9/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$24.14	$14.75	$9.27	$5.05	$0.00	$53.21
2	60.00	$28.96	$14.75	$9.32	$6.05	$0.00	$59.08
3	70.00	$33.79	$14.75	$9.37	$7.06	$0.00	$64.97
4	80.00	$38.62	$14.75	$9.42	$8.07	$0.00	$70.86

Apprentice: INSULATOR (PIPES & TANKS)

Effective Date: 9/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$25.51	$14.75	$9.27	$5.05	$0.00	$54.58
2	60.00	$30.61	$14.75	$9.32	$6.05	$0.00	$60.73
3	70.00	$35.71	$14.75	$9.37	$7.06	$0.00	$66.89
4	80.00	$40.81	$14.75	$9.42	$8.07	$0.00	$73.05

Apprentice to Journeyworker Ratio: 1:4

IRONWORKER/WELDER IRONWORKERS LOCAL 7 IRONWORKERS LOCAL 7 (SPRINGFIELD AREA)	3/16/2026	$42.46	$9.25	$12.75	$11.25	$0.00	$75.71

Apprentice: IRONWORKER/WELDER

Effective Date: 3/16/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	70.00	$29.72	$9.25	$12.75	$1.25	$0.00	$52.97
2	80.00	$33.97	$9.25	$12.75	$1.25	$0.00	$57.22
3	90.00	$38.21	$9.25	$12.75	$1.25	$0.00	$61.46
4	0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
5	0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: IRONWORKER/WELDER							
Effective Date: 3/16/2026							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
6 / 0.00		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Apprentice to Journeyworker Ratio: 1:4							
JACKHAMMER & PAVING BREAKER OPERATOR LABORERS LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	$37.25	$10.90	$9.75	$8.62	$0.00	$66.52
	12/7/2026	$38.55	$10.90	$9.75	$8.62	$0.00	$67.82
	6/7/2027	$39.95	$10.90	$9.75	$8.62	$0.00	$69.22
	12/6/2027	$41.35	$10.90	$9.75	$8.62	$0.00	$70.62
	6/5/2028	$42.85	$10.90	$9.75	$8.62	$0.00	$72.12
	12/4/2028	$44.35	$10.90	$9.75	$8.62	$0.00	$73.62
For apprentice rates see "Apprentice- LABORER"							
LABORER LABORERS LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	$37.00	$10.90	$9.75	$8.62	$0.00	$66.27
	12/7/2026	$38.30	$10.90	$9.75	$8.62	$0.00	$67.57
	6/7/2027	$39.70	$10.90	$9.75	$8.62	$0.00	$68.97
	12/6/2027	$41.10	$10.90	$9.75	$8.62	$0.00	$70.37
	6/5/2028	$42.60	$10.90	$9.75	$8.62	$0.00	$71.87
	12/4/2028	$44.10	$10.90	$9.75	$8.62	$0.00	$73.37
Apprentice: LABORER							
Effective Date: 6/1/2026							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
1 / 60.00		$22.20	$10.90	$9.75	$8.62	$0.00	$51.47
2 / 70.00		$25.90	$10.90	$9.75	$8.62	$0.00	$55.17
3 / 80.00		$29.60	$10.90	$9.75	$8.62	$0.00	$58.87
4 / 90.00		$33.30	$10.90	$9.75	$8.62	$0.00	$62.57
Apprentice: LABORER							
Effective Date: 12/7/2026							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
1 / 60.00		$22.98	$10.90	$9.75	$8.62	$0.00	$52.25
2 / 70.00		$26.81	$10.90	$9.75	$8.62	$0.00	$56.08
3 / 80.00		$30.64	$10.90	$9.75	$8.62	$0.00	$59.91
4 / 90.00		$34.47	$10.90	$9.75	$8.62	$0.00	$63.74
Apprentice to Journeyworker Ratio: 1:5							
LABORER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	$36.99	$10.90	$9.75	$6.60	$0.00	$64.24
	12/1/2026	$38.28	$10.90	$9.75	$6.60	$0.00	$65.53

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: LABORER (HEAVY & HIGHWAY)

Effective Date: 6/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$22.19	$10.90	$9.75	$6.60	$0.00	$49.44
2	70.00	$25.89	$10.90	$9.75	$6.60	$0.00	$53.14
3	80.00	$29.59	$10.90	$9.75	$6.60	$0.00	$56.84
4	90.00	$33.29	$10.90	$9.75	$6.60	$0.00	$60.54

Apprentice: LABORER (HEAVY & HIGHWAY)

Effective Date: 12/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$22.97	$10.90	$9.75	$6.60	$0.00	$50.22
2	70.00	$26.80	$10.90	$9.75	$6.60	$0.00	$54.05
3	80.00	$30.62	$10.90	$9.75	$6.60	$0.00	$57.87
4	90.00	$34.45	$10.90	$9.75	$6.60	$0.00	$61.70

Apprentice to Journeyworker Ratio: 1:5

LABORER: CARPENTER TENDER LABORERS LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	$37.00	$10.90	$9.75	$8.62	$0.00	$66.27
	12/7/2026	$38.30	$10.90	$9.75	$8.62	$0.00	$67.57
	6/7/2027	$39.70	$10.90	$9.75	$8.62	$0.00	$68.97
	12/6/2027	$41.10	$10.90	$9.75	$8.62	$0.00	$70.37
	6/5/2028	$42.60	$10.90	$9.75	$8.62	$0.00	$71.87
	12/4/2028	$44.10	$10.90	$9.75	$8.62	$0.00	$73.37
For apprentice rates see "Apprentice- LABORER"							
LABORER: CEMENT FINISHER TENDER LABORERS LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	$37.00	$10.90	$9.75	$8.62	$0.00	$66.27
	12/7/2026	$38.30	$10.90	$9.75	$8.62	$0.00	$67.57
	6/7/2027	$39.70	$10.90	$9.75	$8.62	$0.00	$68.97
	12/6/2027	$41.10	$10.90	$9.75	$8.62	$0.00	$70.37
	6/5/2028	$42.60	$10.90	$9.75	$8.62	$0.00	$71.87
	12/4/2028	$44.10	$10.90	$9.75	$8.62	$0.00	$73.37
For apprentice rates see "Apprentice- LABORER"							
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER LABORERS LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	$36.92	$10.90	$9.75	$8.75	$0.00	$66.32
	12/7/2026	$38.22	$10.90	$9.75	$8.75	$0.00	$67.62
	6/7/2027	$39.62	$10.90	$9.75	$8.75	$0.00	$69.02
	12/6/2027	$41.02	$10.90	$9.75	$8.75	$0.00	$70.42
	6/5/2028	$42.52	$10.90	$9.75	$8.75	$0.00	$71.92
	12/4/2028	$44.02	$10.90	$9.75	$8.75	$0.00	$73.42
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER LABORERS LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	$40.00	$10.90	$9.75	$8.62	$0.00	$69.27
	12/7/2026	$41.30	$10.90	$9.75	$8.62	$0.00	$70.57
	6/7/2027	$42.70	$10.90	$9.75	$8.62	$0.00	$71.97

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	12/6/2027	$44.10	$10.90	$9.75	$8.62	$0.00	$73.37
	6/5/2028	$45.60	$10.90	$9.75	$8.62	$0.00	$74.87
	12/4/2028	$47.10	$10.90	$9.75	$8.62	$0.00	$76.37
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	$37.24	$10.90	$9.75	$6.60	$0.00	$64.49
	12/1/2026	$38.53	$10.90	$9.75	$6.60	$0.00	$65.78
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
LABORER: MULTI-TRADE TENDER LABORERS LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	$37.00	$10.90	$9.75	$8.62	$0.00	$66.27
	12/7/2026	$38.30	$10.90	$9.75	$8.62	$0.00	$67.57
	6/7/2027	$39.70	$10.90	$9.75	$8.62	$0.00	$68.97
	12/6/2027	$41.10	$10.90	$9.75	$8.62	$0.00	$70.37
	6/5/2028	$42.60	$10.90	$9.75	$8.62	$0.00	$71.87
	12/4/2028	$44.10	$10.90	$9.75	$8.62	$0.00	$73.37
For apprentice rates see "Apprentice- LABORER"							
LABORER: TREE REMOVER LABORERS LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	$37.00	$10.90	$9.75	$8.62	$0.00	$66.27
	12/7/2026	$38.30	$10.90	$9.75	$8.62	$0.00	$67.57
	6/7/2027	$39.70	$10.90	$9.75	$8.62	$0.00	$68.97
	12/6/2027	$41.10	$10.90	$9.75	$8.62	$0.00	$70.37
	6/5/2028	$42.60	$10.90	$9.75	$8.62	$0.00	$71.87
	12/4/2028	$44.10	$10.90	$9.75	$8.62	$0.00	$73.37
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 LABORERS LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	$37.25	$10.90	$9.75	$8.62	$0.00	$66.52
	12/7/2026	$38.55	$10.90	$9.75	$8.62	$0.00	$67.82
	6/7/2027	$39.95	$10.90	$9.75	$8.62	$0.00	$69.22
	12/6/2027	$41.35	$10.90	$9.75	$8.62	$0.00	$70.62
	6/5/2028	$42.85	$10.90	$9.75	$8.62	$0.00	$72.12
	12/4/2028	$44.35	$10.90	$9.75	$8.62	$0.00	$73.62
For apprentice rates see "Apprentice- LABORER"							
LASER BEAM OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	$37.24	$10.90	$9.75	$6.60	$0.00	$64.49
	12/1/2026	$38.53	$10.90	$9.75	$6.60	$0.00	$65.78
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
MARBLE & TILE FINISHERS BRICKLAYERS LOCAL 3 BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/1/2026	$45.56	$12.84	$15.10	$5.41	$0.00	$78.91
	8/1/2026	$47.32	$12.84	$15.10	$5.41	$0.00	$80.67
	2/1/2027	$48.44	$12.84	$15.10	$5.41	$0.00	$81.79

Apprentice: MARBLE & TILE FINISHERS

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$22.78	$12.84	$15.10	$5.41	$0.00	$56.13
2	60.00	$27.34	$12.84	$15.10	$5.41	$0.00	$60.69

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: MARBLE & TILE FINISHERS

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
3	70.00	$31.89	$12.84	$15.10	$5.41	$0.00	$65.24
4	80.00	$36.45	$12.84	$15.10	$5.41	$0.00	$69.80
5	90.00	$41.00	$12.84	$15.10	$5.41	$0.00	$74.35

Apprentice: MARBLE & TILE FINISHERS

Effective Date: 8/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$23.66	$12.84	$15.10	$5.41	$0.00	$57.01
2	60.00	$28.39	$12.84	$15.10	$5.41	$0.00	$61.74
3	70.00	$33.12	$12.84	$15.10	$5.41	$0.00	$66.47
4	80.00	$37.86	$12.84	$15.10	$5.41	$0.00	$71.21
5	90.00	$42.59	$12.84	$15.10	$5.41	$0.00	$75.94

Apprentice to Journeyworker Ratio: 1:5

MECH. SWEEPER OPERATOR (ON CONST. SITES) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MECHANIC/WELDER/BOOM TRUCK OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MILLWRIGHT (Zone 3) MILLWRIGHTS LOCAL 1121 MILLWRIGHTS LOCAL 1121 - Zone 3	1/5/2026	$45.20	$10.58	$11.47	$9.75	$0.00	$77.00

Apprentice: MILLWRIGHT (Zone 3)

Effective Date: 1/5/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	55.00	$24.86	$10.58	$0.00	$5.36	$0.00	$40.80
2	65.00	$29.38	$10.58	$0.00	$6.34	$0.00	$46.30
3	75.00	$33.90	$10.58	$11.47	$7.31	$0.00	$63.26
4	85.00	$38.42	$10.58	$11.47	$8.29	$0.00	$68.76

Apprentice Notes

Step 1&2 Appr. indentured after 1/6/2020 receive no pension,

Apprentice to Journeyworker Ratio: 1:4

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
MORTAR MIXER	6/1/2026	$37.25	$10.90	$9.75	$8.62	$0.00	$66.52
LABORERS LABORERS - ZONE 3 (BUILDING & SITE)	12/7/2026	$38.55	$10.90	$9.75	$8.62	$0.00	$67.82
	6/7/2027	$39.95	$10.90	$9.75	$8.62	$0.00	$69.22
	12/6/2027	$41.35	$10.90	$9.75	$8.62	$0.00	$70.62
	6/5/2028	$42.85	$10.90	$9.75	$8.62	$0.00	$72.12
	12/4/2028	$44.35	$10.90	$9.75	$8.62	$0.00	$73.62
For apprentice rates see "Apprentice- LABORER"							
OILER	12/1/2023	$35.02	$13.78	$12.15	$3.00	$0.00	$63.95
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
OTHER POWER DRIVEN EQUIPMENT - CLASS VI	12/1/2023	$32.74	$13.78	$12.15	$3.00	$0.00	$61.67
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
PAINTER (BRIDGES/TANKS)	1/1/2026	$59.56	$10.35	$12.00	$12.60	$0.00	$94.51
PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3							

Apprentice: PAINTER (BRIDGES/TANKS)

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$29.78	$10.35	$0.00	$0.00	$0.00	$40.13
2	55.00	$32.76	$10.35	$0.00	$6.93	$0.00	$50.04
3	60.00	$35.74	$10.35	$0.00	$7.56	$0.00	$53.65
4	65.00	$38.71	$10.35	$0.00	$8.19	$0.00	$57.25
5	70.00	$41.69	$10.35	$12.00	$8.82	$0.00	$72.86
6	75.00	$44.67	$10.35	$12.00	$9.45	$0.00	$76.47
7	80.00	$47.65	$10.35	$12.00	$10.08	$0.00	$80.08
8	90.00	$53.60	$10.35	$12.00	$11.34	$0.00	$87.29

Apprentice to Journeyworker Ratio: 1:1

PAINTER (SPRAY OR SANDBLAST, NEW) *	1/1/2026	$42.03	$10.35	$12.00	$8.35	$0.00	$72.73
* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3							

Apprentice: PAINTER (SPRAY OR SANDBLAST, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$21.02	$10.35	$0.00	$0.00	$0.00	$31.37
2	55.00	$23.12	$10.35	$0.00	$4.59	$0.00	$38.06
3	60.00	$25.22	$10.35	$0.00	$5.01	$0.00	$40.58

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: PAINTER (SPRAY OR SANDBLAST, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
4	65.00	$27.32	$10.35	$0.00	$5.43	$0.00	$43.10
5	70.00	$29.42	$10.35	$12.00	$5.85	$0.00	$57.62
6	75.00	$31.52	$10.35	$12.00	$6.26	$0.00	$60.13
7	80.00	$33.62	$10.35	$12.00	$6.68	$0.00	$62.65
8	90.00	$37.83	$10.35	$12.00	$7.52	$0.00	$67.70

Apprentice to Journeyworker Ratio: 1:1

PAINTER (SPRAY OR SANDBLAST, REPAINT) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$39.35	$10.35	$12.00	$8.35	$0.00	$70.05

Apprentice: PAINTER (SPRAY OR SANDBLAST, REPAINT)

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$19.68	$10.35	$0.00	$0.00	$0.00	$30.03
2	55.00	$21.64	$10.35	$0.00	$4.59	$0.00	$36.58
3	60.00	$23.61	$10.35	$0.00	$5.01	$0.00	$38.97
4	65.00	$25.58	$10.35	$0.00	$5.43	$0.00	$41.36
5	70.00	$27.55	$10.35	$12.00	$5.85	$0.00	$55.75
6	75.00	$29.51	$10.35	$12.00	$6.26	$0.00	$58.12
7	80.00	$31.48	$10.35	$12.00	$6.68	$0.00	$60.51
8	90.00	$35.42	$10.35	$12.00	$7.52	$0.00	$65.29

Apprentice to Journeyworker Ratio: 1:1

PAINTER / TAPER (BRUSH, NEW) * * If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$40.63	$10.35	$12.00	$8.35	$0.00	$71.33

Apprentice: PAINTER / TAPER (BRUSH, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$20.32	$10.35	$0.00	$0.00	$0.00	$30.67
2	55.00	$22.35	$10.35	$0.00	$4.59	$0.00	$37.29
3	60.00	$24.38	$10.35	$0.00	$5.01	$0.00	$39.74
4	65.00	$26.41	$10.35	$0.00	$5.43	$0.00	$42.19
5	70.00	$28.44	$10.35	$12.00	$5.85	$0.00	$56.64
6	75.00	$30.47	$10.35	$12.00	$6.26	$0.00	$59.08
7	80.00	$32.50	$10.35	$12.00	$6.68	$0.00	$61.53

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: PAINTER / TAPER (BRUSH, NEW) *							
Effective Date: 1/1/2026							
Step / Percent		**Apprentice Base Wage**					
8 / 90.00		$36.57	$10.35	$12.00	$7.52	$0.00	$66.44
Apprentice to Journeyworker Ratio: 1:1							
PAINTER / TAPER (BRUSH, REPAINT) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$37.95	$10.35	$12.00	$8.35	$0.00	$68.65
Apprentice: PAINTER / TAPER (BRUSH, REPAINT)							
Effective Date: 1/1/2026							
Step / Percent		**Apprentice Base Wage**					
1 / 50.00		$18.98	$10.35	$0.00	$0.00	$0.00	$29.33
2 / 55.00		$20.87	$10.35	$0.00	$4.59	$0.00	$35.81
3 / 60.00		$22.77	$10.35	$0.00	$5.01	$0.00	$38.13
4 / 65.00		$24.67	$10.35	$0.00	$5.43	$0.00	$40.45
5 / 70.00		$26.57	$10.35	$12.00	$5.85	$0.00	$54.77
6 / 75.00		$28.46	$10.35	$12.00	$6.26	$0.00	$57.07
7 / 80.00		$30.36	$10.35	$12.00	$6.68	$0.00	$59.39
8 / 90.00		$34.16	$10.35	$12.00	$7.52	$0.00	$64.03
Apprentice to Journeyworker Ratio: 1:1							
PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY) LABORERS LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	$36.99	$10.90	$9.75	$6.60	$0.00	$64.24
	12/1/2026	$38.28	$10.90	$9.75	$6.60	$0.00	$65.53
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PANEL & PICKUP TRUCKS DRIVER TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$41.78	$16.17	$21.78	$0.00	$0.00	$79.73
	12/1/2026	$41.78	$16.17	$23.52	$0.00	$0.00	$81.47
	1/1/2027	$41.78	$16.77	$23.52	$0.00	$0.00	$82.07
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK) PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
For apprentice rates see "Apprentice- PILE DRIVER"							
PILE DRIVER PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
Apprentice: PILE DRIVER							
Effective Date: 8/1/2024							
Step / Percent		**Apprentice Base Wage**					

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: PILE DRIVER							
Effective Date: 8/1/2024							
Step / Percent		**Apprentice Base Wage**					
1 / 45.00		$22.14	$10.08	$0.00	$2.53	$0.00	$34.75
2 / 55.00		$27.05	$10.08	$0.00	$5.07	$0.00	$42.20
3 / 70.00		$34.43	$10.08	$11.62	$7.60	$0.00	$63.73
4 / 80.00		$39.35	$10.08	$11.62	$10.14	$0.00	$71.19
Apprentice to Journeyworker Ratio: 1:5							
PIPELAYER	6/1/2026	$37.25	$10.90	$9.75	$8.62	$0.00	$66.52
LABORERS LABORERS - ZONE 3 (BUILDING & SITE)	12/7/2026	$38.55	$10.90	$9.75	$8.62	$0.00	$67.82
	6/7/2027	$39.95	$10.90	$9.75	$8.62	$0.00	$69.22
	12/6/2027	$41.35	$10.90	$9.75	$8.62	$0.00	$70.62
	6/5/2028	$42.85	$10.90	$9.75	$8.62	$0.00	$72.12
	12/4/2028	$44.35	$10.90	$9.75	$8.62	$0.00	$73.62
For apprentice rates see "Apprentice- LABORER"							
PIPELAYER (HEAVY & HIGHWAY)	6/1/2026	$37.24	$10.90	$9.75	$6.60	$0.00	$64.49
LABORERS LABORERS - ZONE 3 (HEAVY & HIGHWAY)	12/1/2026	$38.53	$10.90	$9.75	$6.60	$0.00	$65.78
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PLUMBER & PIPEFITTER	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
Apprentice: PLUMBER & PIPEFITTER							
Effective Date: 3/17/2026							
Step / Percent		**Apprentice Base Wage**					
1 / 45.00		$23.74	$13.50	$10.85	$0.00	$0.00	$48.09
2 / 50.00		$26.38	$13.50	$10.85	$0.00	$0.00	$50.73
3 / 55.00		$29.02	$13.50	$10.85	$0.00	$0.00	$53.37
4 / 60.00		$31.66	$13.50	$10.85	$0.00	$0.00	$56.01
5 / 65.00		$34.29	$13.50	$10.85	$0.00	$0.00	$58.64
6 / 70.00		$36.93	$13.50	$10.85	$0.00	$0.00	$61.28
7 / 75.00		$39.57	$13.50	$10.85	$0.00	$0.00	$63.92
8 / 80.00		$42.21	$13.50	$10.85	$0.00	$0.00	$66.56
9 / 85.00		$44.85	$13.50	$10.85	$7.10	$0.00	$76.30
10 / 85.00		$44.85	$13.50	$10.85	$7.10	$0.00	$76.30

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: PLUMBER & PIPEFITTER

Effective Date: 9/17/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$24.64	$13.50	$0.00	$0.00	$0.00	$38.14
2	50.00	$27.38	$13.50	$0.00	$0.00	$0.00	$40.88
3	55.00	$30.12	$13.50	$0.00	$0.00	$0.00	$43.62
4	60.00	$32.86	$13.50	$0.00	$0.00	$0.00	$46.36
5	65.00	$35.59	$13.50	$0.00	$0.00	$0.00	$49.09
6	70.00	$38.33	$13.50	$0.00	$0.00	$0.00	$51.83
7	75.00	$41.07	$13.50	$0.00	$0.00	$0.00	$54.57
8	80.00	$43.81	$13.50	$0.00	$0.00	$0.00	$57.31
9	85.00	$46.55	$13.50	$0.00	$7.10	$0.00	$67.15
10	85.00	$46.55	$13.50	$0.00	$7.10	$0.00	$67.15

Apprentice Notes

**1:1,2:5,3:9,4:12

Apprentice to Journeyworker Ratio: 1:1

PNEUMATIC CONTROLS (TEMP.) PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	$37.24	$10.90	$9.75	$6.60	$0.00	$64.49
	12/1/2026	$38.53	$10.90	$9.75	$6.60	$0.00	$65.78
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
POWDERMAN & BLASTER LABORERS LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	$38.00	$10.90	$9.75	$8.62	$0.00	$67.27
	12/7/2026	$39.30	$10.90	$9.75	$8.62	$0.00	$68.57
	6/7/2027	$40.70	$10.90	$9.75	$8.62	$0.00	$69.97
	12/6/2027	$42.10	$10.90	$9.75	$8.62	$0.00	$71.37
	6/5/2028	$43.60	$10.90	$9.75	$8.62	$0.00	$72.87
	12/4/2028	$45.10	$10.90	$9.75	$8.62	$0.00	$74.37
For apprentice rates see "Apprentice- LABORER"							
POWDERMAN & BLASTER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	$37.99	$10.90	$9.75	$6.60	$0.00	$65.24
	12/1/2026	$39.28	$10.90	$9.75	$6.60	$0.00	$66.53
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PUMP OPERATOR (CONCRETE) OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
PUMP OPERATOR (DEWATERING, OTHER) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
READY-MIX CONCRETE DRIVER TEAMSTERS 404 - Construction Service (Northampton) TEAMSTERS 404 - Construction Service (Northampton)	5/1/2024	$26.14	$11.82	$7.25	$0.00	$0.00	$45.21
RIDE-ON MOTORIZED BUGGY OPERATOR LABORERS LABORERS - ZONE 3 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$37.25	$10.90	$9.75	$8.62	$0.00	$66.52
	12/7/2026	$38.55	$10.90	$9.75	$8.62	$0.00	$67.82
	6/7/2027	$39.95	$10.90	$9.75	$8.62	$0.00	$69.22
	12/6/2027	$41.35	$10.90	$9.75	$8.62	$0.00	$70.62
	6/5/2028	$42.85	$10.90	$9.75	$8.62	$0.00	$72.12
	12/4/2028	$44.35	$10.90	$9.75	$8.62	$0.00	$73.62
ROLLER OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$38.42	$13.78	$12.15	$3.00	$0.00	$67.35
ROOFER (Coal tar pitch) ROOFERS LOCAL 248 ROOFERS LOCAL 248 For apprentice rates see "Apprentice- ROOFER"	7/16/2026	$46.73	$10.60	$8.70	$10.00	$0.00	$76.03
ROOFER (Inc.Roofer Waterproofng &Roofer Damproofg) ROOFERS LOCAL 248 ROOFERS LOCAL 248	7/16/2026	$46.23	$10.60	$8.70	$10.00	$0.00	$75.53
ROOFER SLATE / TILE / PRECAST CONCRETE ROOFERS LOCAL 248 ROOFERS LOCAL 248 For apprentice rates see "Apprentice- ROOFER"	7/16/2026	$46.73	$10.60	$8.70	$10.00	$0.00	$76.03
SCRAPER OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
SELF-POWERED ROLLERS AND COMPACTORS (TAMPERS) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$38.42	$13.78	$12.15	$3.00	$0.00	$67.35
SELF-PROPELLED POWER BROOM OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$35.80	$13.78	$12.15	$3.00	$0.00	$64.73

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
SHEETMETAL WORKER SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	$43.48	$13.24	$11.01	$9.92	$2.13	$79.78
	1/1/2027	$43.48	$13.54	$11.01	$11.12	$2.13	$81.28
	7/1/2027	$44.98	$13.54	$11.01	$11.12	$2.13	$82.78
	1/1/2028	$46.48	$13.54	$11.01	$11.12	$2.13	$84.28

Apprentice: SHEETMETAL WORKER

Effective Date: 7/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.57	$5.96	$4.95	$0.00	$0.85	$31.33
2	50.00	$21.74	$6.62	$5.51	$0.00	$0.94	$34.81
3	55.00	$23.91	$7.28	$9.91	$0.00	$1.15	$42.25
4	60.00	$26.09	$7.94	$9.91	$0.00	$1.23	$45.17
5	65.00	$28.26	$8.60	$9.91	$0.00	$1.31	$48.08
6	70.00	$30.44	$9.27	$9.91	$0.00	$1.39	$51.01
7	75.00	$32.61	$9.93	$9.91	$0.00	$1.47	$53.92
8	80.00	$34.78	$10.59	$9.91	$9.92	$1.78	$66.98
9	85.00	$36.96	$11.25	$9.91	$9.92	$1.86	$69.90
10	90.00	$39.13	$11.92	$9.91	$9.92	$1.94	$72.82

Apprentice: SHEETMETAL WORKER

Effective Date: 1/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.57	$6.09	$4.95	$0.00	$0.85	$31.46
2	50.00	$21.74	$6.77	$5.51	$0.00	$0.94	$34.96
3	55.00	$23.91	$7.45	$9.91	$0.00	$1.15	$42.42
4	60.00	$26.09	$8.36	$9.91	$0.00	$1.23	$45.59
5	65.00	$28.26	$8.86	$9.91	$0.00	$1.31	$48.34
6	70.00	$30.44	$9.48	$9.91	$0.00	$1.39	$51.22
7	75.00	$32.61	$10.15	$9.91	$0.00	$1.47	$54.14
8	80.00	$34.78	$10.83	$9.91	$11.12	$1.78	$68.42
9	85.00	$36.96	$11.51	$9.91	$11.12	$1.86	$71.36
10	90.00	$39.13	$12.18	$9.91	$11.12	$1.94	$74.28

Apprentice to Journeyworker Ratio: 1:3

SPECIALIZED EARTH MOVING EQUIP < 35 TONS TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.24	$16.17	$21.78	$0.00	$0.00	$80.19
	12/1/2026	$42.24	$16.17	$23.52	$0.00	$0.00	$81.93
	1/1/2027	$42.24	$16.77	$23.52	$0.00	$0.00	$82.53
SPECIALIZED EARTH MOVING EQUIP > 35 TONS TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.53	$16.17	$21.78	$0.00	$0.00	$80.48
	12/1/2026	$42.53	$16.17	$23.52	$0.00	$0.00	$82.22
	1/1/2027	$42.53	$16.77	$23.52	$0.00	$0.00	$82.82
SPRINKLER FITTER SPRINKLER FITTERS LOCAL 669 SPRINKLER FITTERS LOCAL 669	7/1/2026	$56.54	$13.60	$7.45	$9.41	$0.00	$87.00
	10/1/2026	$56.54	$13.60	$7.45	$9.41	$0.00	$87.00
	1/1/2027	$56.54	$14.55	$7.50	$9.41	$0.00	$88.00

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	4/1/2027	$59.83	$14.55	$7.50	$9.41	$0.00	$91.29
	7/1/2027	$59.83	$14.55	$7.50	$9.41	$0.00	$91.29
	10/1/2027	$59.83	$14.55	$7.50	$9.41	$0.00	$91.29
	1/1/2028	$59.83	$15.50	$7.55	$9.41	$0.00	$92.29

Apprentice: SPRINKLER FITTER

Effective Date: 7/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	43.00	$28.36	$9.64	$0.00	$0.00	$0.00	$38.00
2	48.00	$31.66	$9.64	$0.00	$0.00	$0.00	$41.30
3	52.00	$34.29	$13.60	$7.45	$1.15	$0.00	$56.49
4	56.00	$36.93	$13.60	$7.45	$1.15	$0.00	$59.13
5	59.00	$38.91	$13.60	$7.45	$1.40	$0.00	$61.36
6	64.00	$42.21	$13.60	$7.45	$1.40	$0.00	$64.66
7	68.00	$44.85	$13.60	$7.45	$1.40	$0.00	$67.30
8	72.00	$47.48	$13.60	$7.45	$1.40	$0.00	$69.93
9	76.00	$50.12	$13.60	$7.45	$1.40	$0.00	$72.57
10	80.00	$52.76	$13.60	$7.45	$1.40	$0.00	$75.21

Apprentice: SPRINKLER FITTER

Effective Date: 10/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	43.00	$28.36	$0.00	$0.00	$0.00	$0.00	$28.36
2	48.00	$31.66	$0.00	$0.00	$0.00	$0.00	$31.66
3	52.00	$34.29	$0.00	$0.00	$1.15	$0.00	$35.44
4	56.00	$36.93	$0.00	$0.00	$1.15	$0.00	$38.08
5	59.00	$38.91	$0.00	$0.00	$1.40	$0.00	$40.31
6	64.00	$42.21	$0.00	$0.00	$1.40	$0.00	$43.61
7	68.00	$44.85	$0.00	$0.00	$1.40	$0.00	$46.25
8	72.00	$47.48	$0.00	$0.00	$1.40	$0.00	$48.88
9	76.00	$50.12	$0.00	$0.00	$1.40	$0.00	$51.52
10	80.00	$52.76	$0.00	$0.00	$1.40	$0.00	$54.16

Apprentice to Journeyworker Ratio: 1:1

TELECOMMUNICATION TECHNICIAN	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
TELECOMMUNICATION TECHNICIAN ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37

For apprentice rates and ratios see "Apprentice- ELECTRICIAN"

Apprentice: TELECOMMUNICATION TECHNICIAN

Effective Date: 6/28/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: TELECOMMUNICATION TECHNICIAN

Effective Date: 6/28/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	$21.76	$7.80	$0.63	$0.00	$0.00	$30.19
2	45.00	$24.48	$7.80	$0.70	$0.00	$0.00	$32.98
3	50.00	$27.21	$14.00	$7.53	$0.00	$0.00	$48.74
4	55.00	$29.93	$14.00	$7.61	$0.00	$0.00	$51.54
5	65.00	$35.37	$14.00	$9.84	$0.00	$0.00	$59.21
6	70.00	$38.09	$14.00	$11.30	$0.00	$0.00	$63.39

Apprentice: TELECOMMUNICATION TECHNICIAN

Effective Date: 1/3/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	$22.22	$7.95	$0.63	$0.00	$0.00	$30.80
2	45.00	$25.00	$7.95	$0.70	$0.00	$0.00	$33.65
3	50.00	$27.78	$14.25	$7.53	$0.00	$0.00	$49.56
4	55.00	$30.56	$14.25	$7.61	$0.00	$0.00	$52.42
5	65.00	$36.11	$14.25	$9.84	$0.00	$0.00	$60.20
6	70.00	$38.89	$14.25	$11.30	$0.00	$0.00	$64.44

Apprentice to Journeyworker Ratio: 1:1

TERRAZZO FINISHERS	2/10/2026	$66.89	$12.84	$15.57	$8.02	$0.00	$103.32
BRICKLAYERS LOCAL 3	8/1/2026	$69.09	$12.84	$15.57	$8.02	$0.00	$105.52
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/1/2027	$70.49	$12.84	$15.57	$8.02	$0.00	$106.92

Apprentice: TERRAZZO FINISHERS

Effective Date: 2/10/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$33.45	$12.84	$15.57	$8.02	$0.00	$69.88
2	60.00	$40.13	$12.84	$15.57	$8.02	$0.00	$76.56
3	70.00	$46.82	$12.84	$15.57	$8.02	$0.00	$83.25
4	80.00	$53.51	$12.84	$15.57	$8.02	$0.00	$89.94
5	90.00	$60.20	$12.84	$15.57	$8.02	$0.00	$96.63

Apprentice: TERRAZZO FINISHERS

Effective Date: 8/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$34.55	$12.84	$15.57	$8.02	$0.00	$70.98
2	60.00	$41.45	$12.84	$15.57	$8.02	$0.00	$77.88
3	70.00	$48.36	$12.84	$15.57	$8.02	$0.00	$84.79

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: TERRAZZO FINISHERS							
Effective Date: 8/1/2026							
Step / Percent		**Apprentice Base Wage**					
4 / 80.00		$55.27	$12.84	$15.57	$8.02	$0.00	$91.70
5 / 90.00		$62.18	$12.84	$15.57	$8.02	$0.00	$98.61
Apprentice to Journeyworker Ratio: 1:5							
TERRAZZO MECHANIC	2/1/2026	$67.97	$12.84	$15.57	$7.99	$0.00	$104.37
BRICKLAYERS LOCAL 3	8/1/2026	$70.17	$12.84	$15.57	$7.99	$0.00	$106.57
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/1/2027	$71.57	$12.84	$15.57	$7.99	$0.00	$107.97
Apprentice: TERRAZZO MECHANIC							
Effective Date: 2/1/2026							
Step / Percent		**Apprentice Base Wage**					
1 / 50.00		$33.99	$12.84	$15.57	$7.99	$0.00	$70.39
2 / 60.00		$40.78	$12.84	$15.57	$7.99	$0.00	$77.18
3 / 70.00		$47.58	$12.84	$15.57	$7.99	$0.00	$83.98
4 / 80.00		$54.38	$12.84	$15.57	$7.99	$0.00	$90.78
5 / 90.00		$61.17	$12.84	$15.57	$7.99	$0.00	$97.57
Apprentice: TERRAZZO MECHANIC							
Effective Date: 8/1/2026							
Step / Percent		**Apprentice Base Wage**					
1 / 50.00		$35.09	$12.84	$15.57	$7.99	$0.00	$71.49
2 / 60.00		$42.10	$12.84	$15.57	$7.99	$0.00	$78.50
3 / 70.00		$49.12	$12.84	$15.57	$7.99	$0.00	$85.52
4 / 80.00		$56.14	$12.84	$15.57	$7.99	$0.00	$92.54
5 / 90.00		$63.15	$12.84	$15.57	$7.99	$0.00	$99.55
Apprentice to Journeyworker Ratio: 1:5							
TEST BORING DRILLER	6/1/2026	$53.25	$10.90	$9.75	$9.80	$0.00	$83.70
LABORERS	12/1/2026	$54.75	$10.90	$9.75	$9.80	$0.00	$85.20
LABORERS - FOUNDATION AND MARINE							
For apprentice rates see "Apprentice- LABORER"							
TEST BORING DRILLER HELPER	6/1/2026	$49.37	$10.90	$9.75	$9.80	$0.00	$79.82
LABORERS	12/1/2026	$50.87	$10.90	$9.75	$9.80	$0.00	$81.32
LABORERS - FOUNDATION AND MARINE							
For apprentice rates see "Apprentice- LABORER"							
TEST BORING LABORER	6/1/2026	$49.25	$10.90	$9.75	$9.80	$0.00	$79.70
LABORERS	12/1/2026	$50.75	$10.90	$9.75	$9.80	$0.00	$81.20
LABORERS - FOUNDATION AND MARINE							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LABORER"							
TRACTORS	12/1/2023	$38.42	$13.78	$12.15	$3.00	$0.00	$67.35
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
TRAILERS FOR EARTH MOVING EQUIPMENT	6/1/2026	$42.82	$16.17	$21.78	$0.00	$0.00	$80.77
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	$42.82	$16.17	$23.52	$0.00	$0.00	$82.51
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	$42.82	$16.77	$23.52	$0.00	$0.00	$83.11
TUNNEL WORK - COMPRESSED AIR	6/1/2026	$61.48	$10.90	$9.75	$10.25	$0.00	$92.38
LABORERS	12/1/2026	$62.98	$10.90	$9.75	$10.25	$0.00	$93.88
LABORERS (COMPRESSED AIR)							
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE)	6/1/2026	$63.48	$10.90	$9.75	$10.25	$0.00	$94.38
LABORERS	12/1/2026	$64.98	$10.90	$9.75	$10.25	$0.00	$95.88
LABORERS (COMPRESSED AIR)							
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - FREE AIR	6/1/2026	$53.55	$10.90	$9.75	$10.25	$0.00	$84.45
LABORERS	12/1/2026	$55.05	$10.90	$9.75	$10.25	$0.00	$85.95
LABORERS (FREE AIR TUNNEL)							
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - FREE AIR (HAZ. WASTE)	6/1/2026	$55.55	$10.90	$9.75	$10.25	$0.00	$86.45
LABORERS	12/1/2026	$57.05	$10.90	$9.75	$10.25	$0.00	$87.95
LABORERS (FREE AIR TUNNEL)							
For apprentice rates see "Apprentice- LABORER"							
VAC-HAUL	6/1/2026	$42.24	$16.17	$21.78	$0.00	$0.00	$80.19
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	$42.24	$16.17	$23.52	$0.00	$0.00	$81.93
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	$42.24	$16.77	$23.52	$0.00	$0.00	$82.53
WAGON DRILL OPERATOR	6/1/2026	$37.25	$10.90	$9.75	$8.62	$0.00	$66.52
LABORERS	12/7/2026	$38.55	$10.90	$9.75	$8.62	$0.00	$67.82
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	$39.95	$10.90	$9.75	$8.62	$0.00	$69.22
	12/6/2027	$41.35	$10.90	$9.75	$8.62	$0.00	$70.62
	6/5/2028	$42.85	$10.90	$9.75	$8.62	$0.00	$72.12
	12/4/2028	$44.35	$10.90	$9.75	$8.62	$0.00	$73.62
For apprentice rates see "Apprentice- LABORER"							
WAGON DRILL OPERATOR (HEAVY & HIGHWAY)	6/1/2026	$37.24	$10.90	$9.75	$6.60	$0.00	$64.49
LABORERS	12/1/2026	$38.53	$10.90	$9.75	$6.60	$0.00	$65.78
LABORERS - ZONE 3 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
WATER METER INSTALLER	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
PLUMBERS & PIPEFITTERS LOCAL 104	9/17/2026	$56.26	$12.00	$10.85	$7.10	$0.00	$86.21
PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21

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

Marine Drilling

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BLASTER MARINE DRILLING MARINE DRILLING	1/1/2018	$41.82	$7.63	$2.35	$1.25	$0.00	$53.05
BOAT CAPTAIN MARINE DRILLING MARINE DRILLING	1/1/2018	$33.87	$7.63	$2.35	$0.95	$0.00	$44.80
BOAT CAPTAIN / Over 1,000 hp MARINE DRILLING MARINE DRILLING	1/1/2018	$38.06	$7.63	$2.35	$1.25	$0.00	$49.29
CORE DRILLER MARINE DRILLING MARINE DRILLING	1/1/2018	$31.43	$7.63	$2.25	$0.65	$0.00	$41.96
CORE DRILLER HELPER MARINE DRILLING MARINE DRILLING	1/1/2018	$28.47	$7.63	$2.35	$0.65	$0.00	$39.10
DRILLER MARINE DRILLING MARINE DRILLING	1/1/2018	$39.70	$7.63	$2.35	$1.25	$0.00	$50.93
ENGINEER MARINE DRILLING MARINE DRILLING	1/1/2018	$39.69	$7.63	$2.25	$1.25	$0.00	$50.82
HELPER MARINE DRILLING MARINE DRILLING	1/1/2018	$34.24	$7.63	$2.35	$0.65	$0.00	$44.87
MACHINIST MARINE DRILLING MARINE DRILLING	1/1/2018	$38.88	$7.63	$2.35	$0.95	$0.00	$49.81
OILER - MARINE DRILLING MARINE DRILLING MARINE DRILLING	1/1/2018	$34.24	$7.63	$2.35	$0.65	$0.00	$44.87
TUG DECKHAND MARINE DRILLING MARINE DRILLING	1/1/2018	$27.61	$7.63	$2.35	$0.65	$0.00	$38.24
WELDER MARINE DRILLING MARINE DRILLING	1/1/2018	$38.88	$7.63	$2.35	$0.95	$0.00	$49.81

Op Eng Marine (Dredging Work)

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BOAT OPERATOR OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$29.26	$7.63	$2.35	$0.95	$0.00	$40.19
CERTIFIED WELDER OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$31.09	$7.63	$2.35	$1.25	$0.00	$42.32
CHIEF WELDER/ CHIEF MATE OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$33.02	$7.63	$2.35	$1.25	$0.00	$44.25
DERRICK / SPIDER / SPILLBARGE OPERATOR OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$33.02	$7.63	$2.35	$1.25	$0.00	$44.25
DRAG BARGE OPERATOR / WELDER / MATE OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$30.24	$7.63	$2.35	$0.95	$0.00	$41.17
ENGINEER / ELECTRICIAN OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$33.02	$7.63	$2.35	$1.25	$0.00	$44.25
LICENSED BOAT OPERATOR OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$33.02	$7.63	$2.35	$1.25	$0.00	$44.25
LICENSED TUG OPERATOR OVER 1000HP OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$38.18	$7.63	$2.35	$1.25	$0.00	$49.41
MAINTENANCE ENGINEER OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$33.03	$7.63	$2.35	$1.25	$0.00	$44.26
OILER - MARINE DIVISION OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$24.30	$7.63	$2.35	$0.65	$0.00	$34.93
OPERATOR / LEVERMAN OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$38.18	$7.63	$2.35	$1.25	$0.00	$49.41
RODMAN / SCOWMAN OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$24.30	$7.63	$2.35	$0.65	$0.00	$34.93
SHOREMAN / DECKHAND OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$24.30	$7.63	$2.35	$0.65	$0.00	$34.93

Additional Apprentice Information

All apprentices must be registered with the Division of Apprenticeship Training(DAS) in accordance with M.G.L.c. 23, §§ 11E-11L. Minimum wage rates for apprentices employed on public works projects are listed above as a percentage of the hourly prevailing wage rate established by the Commissioner under the provisions of M.G.L.c. 149, §§ 26-27D.

Apprentice ratios are established by DAS pursuant to M.G.L.c. 23, §§ 11E-11L. Ratios are expressed as the allowable number of apprentices to journeymen or fraction thereof, unless otherwise specified. The ratios listed herein have been taken from relevant private collective bargaining agreements(CBAs) and are provided for illustrative purposes only. They have not been independently verified as being accurate or continuing to be accurate.

Parties having questions regarding what ratio to use should contact DAS.

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

MAURA HEALEY
Governor
KIM DRISCOLL
Lt. Governor

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:	Massachusetts Highway	**City/Town:**	HAWLEY
Contract Number:	135581		
Description of Work:	ASHFIELD-CHARLEMONT-CONWAY-HAWLEY – Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 1)		
Job Location:	Municipal Bridges at Multiple locations		

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 form 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.

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
(2 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$41.95	$16.17	$21.78	$0.00	$0.00	$79.90
	12/1/2026	$41.95	$16.17	$23.52	$0.00	$0.00	$81.64
	1/1/2027	$41.95	$16.77	$23.52	$0.00	$0.00	$82.24
(3 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.02	$16.17	$21.78	$0.00	$0.00	$79.97
	12/1/2026	$42.02	$16.17	$23.52	$0.00	$0.00	$81.71
	1/1/2027	$42.02	$16.77	$23.52	$0.00	$0.00	$82.31
(4 & 5 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.14	$16.17	$21.78	$0.00	$0.00	$80.09
	12/1/2026	$42.14	$16.17	$23.52	$0.00	$0.00	$81.83
	1/1/2027	$42.14	$16.77	$23.52	$0.00	$0.00	$82.43
ADS/SUBMERSIBLE PILOT PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3) For apprentice rates see "Apprentice- PILE DRIVER"	8/1/2024	$117.16	$10.08	$11.62	$12.67	$0.00	$151.53
AIR TRACK OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.97	$10.90	$9.75	$6.60	$0.00	$64.22
	12/1/2026	$39.39	$10.90	$9.75	$6.60	$0.00	$66.64
	6/1/2027	$40.79	$10.90	$9.75	$6.60	$0.00	$68.04
	12/1/2027	$42.19	$10.90	$9.75	$6.60	$0.00	$69.44
	6/1/2028	$43.69	$10.90	$9.75	$6.60	$0.00	$70.94
	12/1/2028	$45.19	$10.90	$9.75	$6.60	$0.00	$72.44
For apprentice rates see "Apprentice- LABORER"							
AIR TRACK OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY) For apprentice rates see "Apprentice- LABORER (Heavy and Highway)	6/1/2026	$37.75	$10.90	$9.75	$6.60	$0.00	$65.00
	12/1/2026	$39.04	$10.90	$9.75	$6.60	$0.00	$66.29
ASBESTOS WORKER (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)	12/1/2025	$40.32	$14.50	$4.30	$6.25	$0.00	$65.37
ASPHALT RAKER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
ASPHALT RAKER (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
AUTOMATIC GRADER-EXCAVATOR (RECLAIMER) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
BACKHOE/FRONT-END LOADER OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
BARCO-TYPE JUMPING TAMPER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
BATCH/CEMENT PLANT - ON SITE OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
BLOCK PAVER, RAMMER / CURB SETTER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.97	$10.90	$9.75	$6.60	$0.00	$64.22
	12/1/2026	$39.39	$10.90	$9.75	$6.60	$0.00	$66.64
	6/1/2027	$40.79	$10.90	$9.75	$6.60	$0.00	$68.04
	12/1/2027	$42.19	$10.90	$9.75	$6.60	$0.00	$69.44
	6/1/2028	$43.69	$10.90	$9.75	$6.60	$0.00	$70.94
	12/1/2028	$45.19	$10.90	$9.75	$6.60	$0.00	$72.44
For apprentice rates see "Apprentice- LABORER"							
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.75	$10.90	$9.75	$6.60	$0.00	$65.00
	12/1/2026	$39.04	$10.90	$9.75	$6.60	$0.00	$66.29
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
BOILER MAKER BOILERMAKERS LOCAL 29 BOILERMAKERS LOCAL 29	1/1/2024	$48.12	$7.07	$14.60	$6.00	$0.00	$75.79

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)	2/1/2026	$56.36	$12.84	$15.57	$5.89	$0.00	$90.66
BRICKLAYERS LOCAL 3	8/1/2026	$58.56	$12.84	$15.57	$5.89	$0.00	$92.86
BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)	2/1/2027	$59.96	$12.84	$15.57	$5.89	$0.00	$94.26

Apprentice: BOILER MAKER

Effective Date: 1/1/2024

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	65.00	$31.28	$7.07	$9.32	$3.90	$0.00	$51.57
2	65.00	$31.28	$7.07	$9.32	$3.90	$0.00	$51.57
3	70.00	$33.68	$7.07	$10.03	$4.20	$0.00	$54.98
4	75.00	$36.09	$7.07	$10.74	$4.50	$0.00	$58.40
5	80.00	$38.50	$7.07	$11.45	$4.80	$0.00	$61.82
6	85.00	$40.90	$7.07	$12.18	$5.10	$0.00	$65.25
7	90.00	$43.31	$7.07	$12.88	$5.40	$0.00	$68.66
8	95.00	$45.71	$7.07	$13.62	$5.70	$0.00	$72.10

Apprentice to Journeyworker Ratio: 1:4

Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$28.18	$12.84	$15.57	$5.89	$0.00	$62.48
2	60.00	$33.82	$12.84	$15.57	$5.89	$0.00	$68.12
3	70.00	$39.45	$12.84	$15.57	$5.89	$0.00	$73.75
4	80.00	$45.09	$12.84	$15.57	$5.89	$0.00	$79.39
5	90.00	$50.72	$12.84	$15.57	$5.89	$0.00	$85.02

Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)

Effective Date: 8/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$29.28	$12.84	$15.57	$5.89	$0.00	$63.58
2	60.00	$35.14	$12.84	$15.57	$5.89	$0.00	$69.44
3	70.00	$40.99	$12.84	$15.57	$5.89	$0.00	$75.29
4	80.00	$46.85	$12.84	$15.57	$5.89	$0.00	$81.15
5	90.00	$52.70	$12.84	$15.57	$5.89	$0.00	$87.00

Apprentice to Journeyworker Ratio: 1:5

BULLDOZER/POWER SHOVEL/TREE SHREDDER /CLAM SHELL OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
CAISSON & UNDERPINNING BOTTOM MAN LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$50.40	$10.90	$9.75	$9.80	$0.00	$80.85
	12/1/2026	$51.90	$10.90	$9.75	$9.80	$0.00	$82.35
For apprentice rates see "Apprentice- LABORER"							
CAISSON & UNDERPINNING LABORER LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$49.25	$10.90	$9.75	$9.80	$0.00	$79.70
	12/1/2026	$50.75	$10.90	$9.75	$9.80	$0.00	$81.20
For apprentice rates see "Apprentice- LABORER"							
CAISSON & UNDERPINNING TOP MAN LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$49.58	$10.90	$9.75	$9.80	$0.00	$80.03
	12/1/2026	$51.08	$10.90	$9.75	$9.80	$0.00	$81.53
For apprentice rates see "Apprentice- LABORER"							
CARBIDE CORE DRILL OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
CARPENTER CARPENTERS CARPENTERS LOCAL 336 - HAMPDEN HAMPSHIRE FRANKLIN	3/1/2026	$43.81	$9.19	$11.25	$6.90	$0.00	$71.15
	9/1/2026	$44.76	$9.19	$11.25	$6.90	$0.00	$72.10
	3/1/2027	$45.66	$9.19	$11.25	$6.90	$0.00	$73.00

Apprentice: CARPENTER

Effective Date: 3/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.71	$9.19	$0.00	$1.38	$0.00	$30.28
2	45.00	$19.71	$1.28	$0.00	$1.38	$0.00	$22.37
3	55.00	$24.10	$9.19	$0.00	$2.76	$0.00	$36.05
4	55.00	$24.10	$9.19	$0.00	$2.76	$0.00	$36.05
5	70.00	$30.67	$9.19	$11.25	$4.14	$0.00	$55.25
6	70.00	$30.67	$9.19	$11.25	$4.14	$0.00	$55.25
7	80.00	$35.05	$9.19	$11.25	$5.52	$0.00	$61.01
8	80.00	$35.05	$9.19	$11.25	$5.52	$0.00	$61.01

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
CARPENTER WOOD FRAME CARPENTERS CARPENTERS-ZONE 3 (Wood Frame)	10/1/2025	$27.37	$7.38	$4.47	$1.00	$0.00	$40.22
	10/1/2026	$28.47	$7.38	$4.47	$1.00	$0.00	$41.32

All Aspects of New Wood Frame Work

Apprentice: CARPENTER

Effective Date: 9/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$20.14	$9.19	$0.00	$1.38	$0.00	$30.71
2	45.00	$20.14	$9.19	$0.00	$1.38	$0.00	$30.71
3	55.00	$24.62	$9.19	$0.00	$2.76	$0.00	$36.57
4	55.00	$24.62	$9.19	$0.00	$2.76	$0.00	$36.57
5	70.00	$31.33	$9.19	$11.25	$4.14	$0.00	$55.91
6	70.00	$31.33	$9.19	$11.25	$4.14	$0.00	$55.91
7	80.00	$35.81	$9.19	$11.25	$5.52	$0.00	$61.77
8	80.00	$35.81	$9.19	$11.25	$5.52	$0.00	$61.77

Apprentice to Journeyworker Ratio: 1:5

Apprentice: CARPENTER WOOD FRAME

Effective Date: 10/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$16.42	$7.38	$0.00	$0.00	$0.00	$23.80
2	60.00	$16.42	$7.38	$0.00	$0.00	$0.00	$23.80
3	65.00	$17.79	$7.38	$0.00	$1.00	$0.00	$26.17
4	70.00	$19.16	$7.38	$0.00	$1.00	$0.00	$27.54
5	75.00	$20.53	$7.38	$3.80	$1.00	$0.00	$32.71
6	80.00	$21.90	$7.38	$3.80	$1.00	$0.00	$34.08
7	85.00	$23.26	$7.38	$3.80	$1.00	$0.00	$35.44
8	90.00	$24.63	$7.38	$3.80	$1.00	$0.00	$36.81

Apprentice: CARPENTER WOOD FRAME

Effective Date: 10/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$17.08	$7.38	$0.00	$0.00	$0.00	$24.46
2	60.00	$17.08	$7.38	$0.00	$0.00	$0.00	$24.46
3	65.00	$18.51	$7.38	$0.00	$1.00	$0.00	$26.89
4	70.00	$19.93	$7.38	$0.00	$1.00	$0.00	$28.31
5	75.00	$21.35	$7.38	$3.80	$1.00	$0.00	$33.53
6	80.00	$22.78	$7.38	$3.80	$1.00	$0.00	$34.96
7	85.00	$24.20	$7.38	$3.80	$1.00	$0.00	$36.38
8	90.00	$25.62	$7.38	$3.80	$1.00	$0.00	$37.80

Apprentice to Journeyworker Ratio: 1:5

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
CEMENT MASONRY/PLASTERING	7/1/2026	$49.32	$13.20	$16.30	$2.93	$1.69	$83.44
PLASTERERS AND CEMENT MASONS LOCAL 534	1/1/2027	$50.51	$13.20	$16.30	$2.93	$1.69	$84.63
Plasterers and Cement Masons - Zone 2	7/1/2027	$51.70	$13.20	$16.30	$2.93	$1.69	$85.82
	1/1/2028	$52.89	$13.20	$16.30	$2.93	$1.69	$87.01

Apprentice: CEMENT MASONRY/PLASTERING

Effective Date: 7/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$24.66	$13.20	$16.30	$0.00	$0.00	$54.16
2	60.00	$29.59	$13.20	$16.30	$2.93	$1.69	$63.71
3	65.00	$32.06	$13.20	$16.30	$2.93	$1.69	$66.18
4	70.00	$34.52	$13.20	$16.30	$2.93	$1.69	$68.64
5	75.00	$36.99	$13.20	$16.30	$2.93	$1.69	$71.11
6	80.00	$39.46	$13.20	$16.30	$2.93	$1.69	$73.58
7	90.00	$44.39	$13.20	$16.30	$2.93	$0.00	$76.82

Apprentice: CEMENT MASONRY/PLASTERING

Effective Date: 1/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$25.26	$16.30	$16.30	$0.00	$0.00	$57.86
2	60.00	$30.31	$16.30	$16.30	$2.93	$1.69	$67.53
3	65.00	$32.83	$16.30	$16.30	$2.93	$1.69	$70.05
4	70.00	$35.36	$16.30	$16.30	$2.93	$1.69	$72.58
5	75.00	$37.88	$16.30	$16.30	$2.93	$1.69	$75.10
6	80.00	$40.41	$16.30	$16.30	$2.93	$1.69	$77.63
7	90.00	$45.46	$16.30	$16.30	$2.93	$0.00	$80.99

Apprentice to Journeyworker Ratio: 1:5

CHAIN SAW OPERATOR	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
LABORERS	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19

For apprentice rates see "Apprentice- LABORER"

COMPRESSOR OPERATOR	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
CRANE OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$43.06	$13.78	$12.15	$3.00	$0.00	$71.99
DELEADER (BRIDGE) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$59.56	$10.35	$12.00	$12.60	$0.00	$94.51

Apprentice: DELEADER (BRIDGE)

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$29.78	$10.35	$0.00	$0.00	$0.00	$40.13
2	55.00	$32.76	$10.35	$0.00	$6.93	$0.00	$50.04
3	60.00	$35.74	$10.35	$0.00	$7.56	$0.00	$53.65
4	65.00	$38.71	$10.35	$0.00	$8.19	$0.00	$57.25
5	70.00	$41.69	$10.35	$12.00	$8.82	$0.00	$72.86
6	75.00	$44.67	$10.35	$12.00	$9.45	$0.00	$76.47
7	80.00	$47.65	$10.35	$12.00	$10.08	$0.00	$80.08
8	90.00	$53.60	$10.35	$12.00	$11.34	$0.00	$87.29

Apprentice to Journeyworker Ratio: 1:1

DEMO: ADZEMAN LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$49.30	$10.90	$9.75	$9.65	$0.00	$79.60
	12/7/2026	$50.80	$10.90	$9.75	$9.65	$0.00	$81.10
	6/7/2027	$52.40	$10.90	$9.75	$9.65	$0.00	$82.70
	12/6/2027	$54.00	$10.90	$9.75	$9.65	$0.00	$84.30
	6/5/2028	$55.68	$10.90	$9.75	$9.65	$0.00	$85.98
	12/4/2028	$57.35	$10.90	$9.75	$9.65	$0.00	$87.65
DEMO: BACKHOE/LOADER/HAMMER OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$50.30	$10.90	$9.75	$9.65	$0.00	$80.60
	12/7/2026	$51.80	$10.90	$9.75	$9.65	$0.00	$82.10
	6/7/2027	$53.40	$10.90	$9.75	$9.65	$0.00	$83.70
	12/6/2027	$55.00	$10.90	$9.75	$9.65	$0.00	$85.30
	6/5/2028	$56.68	$10.90	$9.75	$9.65	$0.00	$86.98
	12/4/2028	$58.35	$10.90	$9.75	$9.65	$0.00	$88.65
DEMO: BURNERS LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$50.05	$10.90	$9.75	$9.65	$0.00	$80.35
	12/7/2026	$51.55	$10.90	$9.75	$9.65	$0.00	$81.85
	6/7/2027	$53.15	$10.90	$9.75	$9.65	$0.00	$83.45
	12/6/2027	$54.75	$10.90	$9.75	$9.65	$0.00	$85.05
	6/5/2028	$56.43	$10.90	$9.75	$9.65	$0.00	$86.73
	12/4/2028	$58.10	$10.90	$9.75	$9.65	$0.00	$88.40

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LABORER"							
DEMO: CONCRETE CUTTER/SAWYER	6/1/2026	$50.30	$10.90	$9.75	$9.65	$0.00	$80.60
LABORERS	12/7/2026	$51.80	$10.90	$9.75	$9.65	$0.00	$82.10
LABORERS - ZONE 4 (BUILDING & SITE)	6/7/2027	$53.40	$10.90	$9.75	$9.65	$0.00	$83.70
	12/6/2027	$55.00	$10.90	$9.75	$9.65	$0.00	$85.30
	6/5/2028	$56.68	$10.90	$9.75	$9.65	$0.00	$86.98
	12/4/2028	$58.35	$10.90	$9.75	$9.65	$0.00	$88.65
For apprentice rates see "Apprentice- LABORER"							
DEMO: JACKHAMMER OPERATOR	6/1/2026	$50.05	$10.90	$9.75	$9.65	$0.00	$80.35
LABORERS	12/7/2026	$51.55	$10.90	$9.75	$9.65	$0.00	$81.85
LABORERS - ZONE 4 (BUILDING & SITE)	6/7/2027	$53.15	$10.90	$9.75	$9.65	$0.00	$83.45
	12/6/2027	$54.75	$10.90	$9.75	$9.65	$0.00	$85.05
	6/5/2028	$56.43	$10.90	$9.75	$9.65	$0.00	$86.73
	12/4/2028	$58.10	$10.90	$9.75	$9.65	$0.00	$88.40
For apprentice rates see "Apprentice- LABORER"							
DEMO: WRECKING LABORER	6/1/2026	$49.30	$10.90	$9.75	$9.65	$0.00	$79.60
LABORERS	12/7/2026	$50.80	$10.90	$9.75	$9.65	$0.00	$81.10
LABORERS - ZONE 4 (BUILDING & SITE)	6/7/2027	$52.40	$10.90	$9.75	$9.65	$0.00	$82.70
	12/6/2027	$54.00	$10.90	$9.75	$9.65	$0.00	$84.30
	6/5/2028	$55.68	$10.90	$9.75	$9.65	$0.00	$85.98
	12/4/2028	$57.35	$10.90	$9.75	$9.65	$0.00	$87.65
For apprentice rates see "Apprentice- LABORER"							
DIVER	8/1/2024	$78.11	$10.08	$11.62	$12.67	$0.00	$112.48
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Diver wage 70/80/90 2A $69.83, 3A $91.79,4A $102.14 Total Rate							
DIVER TENDER	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Piledriver wage 70/80/90 2A $54.20, 3A $73.93,4A $82.05 Total Rate							
DIVER TENDER (EFFLUENT)	8/1/2024	$83.69	$10.08	$11.62	$12.67	$0.00	$118.06
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
For apprentice rates see "Apprentice- PILE DRIVER"							
DIVER/SLURRY (EFFLUENT)	8/1/2024	$117.16	$10.08	$11.62	$12.67	$0.00	$151.53
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
For apprentice rates see "Apprentice- PILE DRIVER"							
DRAWBRIDGE OPERATOR (Construction)	7/1/2020	$26.77	$6.67	$3.93	$0.00	$0.16	$37.53
DRAWBRIDGE - SEIU LOCAL 888							
DRAWBRIDGE - SEIU LOCAL 888							
ELECTRICIAN (Including Core Drilling)	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
ELECTRICIANS LOCAL 7	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
ELECTRICIANS LOCAL 7							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
ELEVATOR CONSTRUCTOR ELEVATOR CONSTRUCTORS LOCAL 41 ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2026	$69.23	$16.38	$11.06	$10.70	$0.00	$107.37
	1/1/2027	$72.23	$16.48	$11.16	$11.00	$0.00	$110.87

Apprentice: ELECTRICIAN (Including Core Drilling)

Effective Date: 6/28/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	$21.76	$7.80	$0.63	$0.00	$0.00	$30.19
2	45.00	$24.48	$7.80	$0.70	$0.00	$0.00	$32.98
3	50.00	$27.21	$14.00	$7.53	$0.00	$0.00	$48.74
4	55.00	$29.93	$14.00	$7.61	$0.00	$0.00	$51.54
5	65.00	$35.37	$14.00	$9.84	$0.00	$0.00	$59.21
6	70.00	$38.09	$14.00	$11.30	$0.00	$0.00	$63.39

Apprentice: ELECTRICIAN (Including Core Drilling)

Effective Date: 1/3/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	$22.22	$7.95	$0.63	$0.00	$0.00	$30.80
2	45.00	$25.00	$7.95	$0.70	$0.00	$0.00	$33.65
3	50.00	$27.78	$14.25	$7.53	$0.00	$0.00	$49.56
4	55.00	$30.56	$14.25	$7.61	$0.00	$0.00	$52.42
5	65.00	$36.11	$14.25	$9.84	$0.00	$0.00	$60.20
6	70.00	$38.89	$14.25	$11.30	$0.00	$0.00	$64.44

Apprentice to Journeyworker Ratio: 2:3

Apprentice: ELEVATOR CONSTRUCTOR

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$34.62	$16.38	$0.00	$0.00	$0.00	$51.00
2	55.00	$38.08	$16.38	$11.06	$10.70	$0.00	$76.22
3	65.00	$45.00	$16.38	$11.06	$10.70	$0.00	$83.14
4	70.00	$48.46	$16.38	$11.06	$10.70	$0.00	$86.60
5	80.00	$55.38	$16.38	$11.06	$10.70	$0.00	$93.52

Apprentice: ELEVATOR CONSTRUCTOR

Effective Date: 1/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$36.12	$16.48	$0.00	$0.00	$0.00	$52.60
2	55.00	$39.73	$16.48	$11.16	$11.00	$0.00	$78.37
3	65.00	$46.95	$16.48	$11.16	$11.00	$0.00	$85.59

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: ELEVATOR CONSTRUCTOR							
Effective Date: 1/1/2027							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
4 / 70.00		$50.56	$16.48	$11.16	$11.00	$0.00	$89.20
5 / 80.00		$57.78	$16.48	$11.16	$11.00	$0.00	$96.42
Apprentice to Journeyworker Ratio: 1:1							
ELEVATOR CONSTRUCTOR HELPER ELEVATOR CONSTRUCTORS LOCAL 41 ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2026	$48.46	$16.38	$11.06	$10.70	$0.00	$86.60
	1/1/2027	$50.56	$16.48	$11.16	$11.00	$0.00	$89.20
For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"							
FENCE & BEAM RAIL ERECTOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$44.69	$10.90	$9.75	$6.60	$0.00	$71.94
For apprentice rates see "Apprentice- LABORER"							
FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
FIELD ENG.INST/ROD-BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$18.84	$4.80	$4.10	$0.00	$0.00	$27.74
FIELD ENG.PARTY CHIEF:BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$21.33	$4.80	$4.10	$0.00	$0.00	$30.23
FIELD ENG.SURVEY CHIEF-BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$22.33	$4.80	$4.10	$0.00	$0.00	$31.23
FIRE ALARM INSTALLER ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- ELECTRICIAN"							
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"							
FIREMAN OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: FIREMAN

Effective Date: 12/1/2023

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$23.42	$13.78	$12.15	$3.00	$0.00	$52.35
2	70.00	$27.32	$13.78	$12.15	$3.00	$0.00	$56.25
3	80.00	$31.22	$13.78	$12.15	$3.00	$0.00	$60.15
4	90.00	$35.13	$13.78	$12.15	$3.00	$0.00	$64.06

Apprentice to Journeyworker Ratio: 1:6

FLAGGER & SIGNALER (HEAVY & HIGHWAY)	6/1/2026	$29.21	$10.90	$9.75	$6.60	$0.00	$56.46
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$29.21	$10.90	$9.75	$6.60	$0.00	$56.46
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
FLOORCOVERER	3/1/2026	$44.34	$8.56	$11.25	$6.90	$0.00	$71.05
FLOORCOVERERS LOCAL 2168 FLOORCOVERERS LOCAL 2168 ZONE III	9/1/2026	$45.29	$8.56	$11.25	$6.90	$0.00	$72.00
	3/1/2027	$46.19	$8.56	$11.25	$6.90	$0.00	$72.90

Apprentice: FLOORCOVERER

Effective Date: 3/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.95	$8.56	$0.00	$1.38	$0.00	$29.89
2	45.00	$19.95	$8.56	$0.00	$1.38	$0.00	$29.89
3	55.00	$24.39	$8.56	$0.00	$2.76	$0.00	$35.71
4	55.00	$24.39	$8.56	$0.00	$2.76	$0.00	$35.71
5	70.00	$31.04	$8.56	$11.25	$4.14	$0.00	$54.99
6	70.00	$31.04	$8.56	$11.25	$4.14	$0.00	$54.99
7	80.00	$35.47	$8.56	$11.25	$5.52	$0.00	$60.80
8	80.00	$35.47	$8.56	$11.25	$5.52	$0.00	$60.80

Apprentice: FLOORCOVERER

Effective Date: 9/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$20.38	$8.56	$0.00	$1.38	$0.00	$30.32
2	45.00	$20.38	$8.56	$0.00	$1.38	$0.00	$30.32
3	55.00	$24.91	$8.56	$0.00	$2.76	$0.00	$36.23
4	55.00	$24.91	$8.56	$0.00	$2.76	$0.00	$36.23
5	70.00	$31.70	$8.56	$11.25	$4.14	$0.00	$55.65
6	70.00	$31.70	$8.56	$11.25	$4.14	$0.00	$55.65
7	80.00	$36.23	$8.56	$11.25	$5.52	$0.00	$61.56
8	80.00	$36.23	$8.56	$11.25	$5.52	$0.00	$61.56

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice Notes Steps are 750 hrs.							
Apprentice to Journeyworker Ratio: 1:1							
FORK LIFT OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.25	$13.78	$12.15	$3.00	$0.00	$68.18
GENERATORS/LIGHTING PLANTS OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$35.80	$13.78	$12.15	$3.00	$0.00	$64.73
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) GLAZIERS LOCAL 1333 GLAZIERS LOCAL 1333	6/1/2026	$44.73	$11.20	$8.40	$6.05	$0.00	$70.38
	6/1/2027	$46.73	$11.60	$8.55	$6.60	$0.00	$73.48
	6/1/2028	$48.73	$12.00	$8.70	$7.20	$0.00	$76.63

Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)

Effective Date: 6/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$22.37	$11.20	$8.40	$6.05	$0.00	$48.02
2	56.25	$25.16	$11.20	$8.40	$6.05	$0.00	$50.81
3	62.50	$27.96	$11.20	$8.40	$6.05	$0.00	$53.61
4	68.75	$30.75	$11.20	$8.40	$6.05	$0.00	$56.40
5	75.00	$33.55	$11.20	$8.40	$6.05	$0.00	$59.20
6	81.25	$36.34	$11.20	$8.40	$6.05	$0.00	$61.99
7	87.50	$39.14	$11.20	$8.40	$6.05	$0.00	$64.79
8	93.75	$41.93	$11.20	$8.40	$6.05	$0.00	$67.58

Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)

Effective Date: 6/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$23.37	$11.60	$8.55	$6.60	$0.00	$50.12
2	56.25	$26.29	$11.60	$8.55	$6.60	$0.00	$53.04
3	62.50	$29.21	$11.60	$8.55	$6.60	$0.00	$55.96
4	68.75	$32.13	$11.60	$8.55	$6.60	$0.00	$58.88
5	75.00	$35.05	$11.60	$8.55	$6.60	$0.00	$61.80
6	81.25	$37.97	$11.60	$8.55	$6.60	$0.00	$64.72
7	87.50	$40.89	$11.60	$8.55	$6.60	$0.00	$67.64
8	93.75	$43.81	$11.60	$8.55	$6.60	$0.00	$70.56

Apprentice to Journeyworker Ratio: 3:1

GRADER/TRENCHING MACHINE/DERRICK	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
HVAC (DUCTWORK) SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	$43.48	$13.24	$11.01	$9.92	$2.13	$79.78
	1/1/2027	$43.48	$13.54	$11.01	$11.12	$2.13	$81.28
	7/1/2027	$44.98	$13.54	$11.01	$11.12	$2.13	$82.78
	1/1/2028	$46.48	$13.54	$11.01	$11.12	$2.13	$84.28
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- ELECTRICIAN"							
HVAC (TESTING AND BALANCING - AIR) SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	$43.48	$13.24	$11.01	$9.92	$2.13	$79.78
	1/1/2027	$43.48	$13.54	$11.01	$11.12	$2.13	$81.28
	7/1/2027	$44.98	$13.54	$11.01	$11.12	$2.13	$82.78
	1/1/2028	$46.48	$13.54	$11.01	$11.12	$2.13	$84.28
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (TESTING AND BALANCING -WATER) PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HVAC MECHANIC PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HYDRAULIC DRILLS (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.75	$10.90	$9.75	$6.60	$0.00	$65.00
	12/1/2026	$39.04	$10.90	$9.75	$6.60	$0.00	$66.29
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
INSULATOR (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)	9/1/2025	$48.27	$14.75	$9.52	$10.09	$0.00	$82.63
	9/1/2026	$51.01	$14.75	$9.52	$10.09	$0.00	$85.37

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: INSULATOR (PIPES & TANKS)

Effective Date: 9/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$24.14	$14.75	$9.27	$5.05	$0.00	$53.21
2	60.00	$28.96	$14.75	$9.32	$6.05	$0.00	$59.08
3	70.00	$33.79	$14.75	$9.37	$7.06	$0.00	$64.97
4	80.00	$38.62	$14.75	$9.42	$8.07	$0.00	$70.86

Apprentice: INSULATOR (PIPES & TANKS)

Effective Date: 9/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$25.51	$14.75	$9.27	$5.05	$0.00	$54.58
2	60.00	$30.61	$14.75	$9.32	$6.05	$0.00	$60.73
3	70.00	$35.71	$14.75	$9.37	$7.06	$0.00	$66.89
4	80.00	$40.81	$14.75	$9.42	$8.07	$0.00	$73.05

Apprentice to Journeyworker Ratio: 1:4

IRONWORKER/WELDER IRONWORKERS LOCAL 7 IRONWORKERS LOCAL 7 (SPRINGFIELD AREA)	3/16/2026	$42.46	$9.25	$12.75	$11.25	$0.00	$75.71

Apprentice: IRONWORKER/WELDER

Effective Date: 3/16/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	70.00	$29.72	$9.25	$12.75	$1.25	$0.00	$52.97
2	80.00	$33.97	$9.25	$12.75	$1.25	$0.00	$57.22
3	90.00	$38.21	$9.25	$12.75	$1.25	$0.00	$61.46
4	0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
5	0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
6	0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

Apprentice to Journeyworker Ratio: 1:4

JACKHAMMER & PAVING BREAKER OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19

For apprentice rates see "Apprentice- LABORER"

LABORER	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
LABORERS	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69

Apprentice: LABORER

Effective Date: 6/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$21.73	$10.90	$9.75	$6.60	$0.00	$48.98
2	70.00	$25.35	$10.90	$9.75	$6.60	$0.00	$52.60
3	80.00	$28.98	$10.90	$9.75	$6.60	$0.00	$56.23
4	90.00	$32.60	$10.90	$9.75	$6.60	$0.00	$59.85

Apprentice: LABORER

Effective Date: 12/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$23.18	$10.90	$9.75	$6.60	$0.00	$50.43
2	70.00	$27.05	$10.90	$9.75	$6.60	$0.00	$54.30
3	80.00	$30.91	$10.90	$9.75	$6.60	$0.00	$58.16
4	90.00	$34.78	$10.90	$9.75	$6.60	$0.00	$62.03

Apprentice to Journeyworker Ratio: 1:5

LABORER (HEAVY & HIGHWAY)	6/1/2026	$37.00	$10.90	$9.75	$6.60	$0.00	$64.25
LABORERS	12/1/2026	$38.29	$10.90	$9.75	$6.60	$0.00	$65.54
LABORERS - ZONE 4 (HEAVY & HIGHWAY)							

Apprentice: LABORER (HEAVY & HIGHWAY)

Effective Date: 6/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$22.20	$10.90	$9.75	$6.60	$0.00	$49.45
2	70.00	$25.90	$10.90	$9.75	$6.60	$0.00	$53.15
3	80.00	$29.60	$10.90	$9.75	$6.60	$0.00	$56.85
4	90.00	$33.30	$10.90	$9.75	$6.60	$0.00	$60.55

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: LABORER (HEAVY & HIGHWAY)

Effective Date: 12/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$22.97	$10.90	$9.75	$6.60	$0.00	$50.22
2	70.00	$26.80	$10.90	$9.75	$6.60	$0.00	$54.05
3	80.00	$30.63	$10.90	$9.75	$6.60	$0.00	$57.88
4	90.00	$34.46	$10.90	$9.75	$6.60	$0.00	$61.71

Apprentice to Journeyworker Ratio: 1:5

LABORER: CARPENTER TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: CEMENT FINISHER TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$35.67	$10.90	$9.75	$5.41	$0.00	$61.73
	12/1/2026	$36.96	$10.90	$9.75	$5.41	$0.00	$63.02
	6/1/2027	$38.26	$10.90	$9.75	$5.41	$0.00	$64.32
	12/1/2027	$39.56	$10.90	$9.75	$5.41	$0.00	$65.62
	6/5/2028	$40.91	$10.90	$9.75	$5.41	$0.00	$66.97
	12/4/2028	$42.26	$10.90	$9.75	$5.41	$0.00	$68.32
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$38.22	$10.90	$9.75	$6.60	$0.00	$65.47
	12/1/2026	$40.64	$10.90	$9.75	$6.60	$0.00	$67.89
	6/1/2027	$42.04	$10.90	$9.75	$6.60	$0.00	$69.29
	12/1/2027	$43.44	$10.90	$9.75	$6.60	$0.00	$70.69
	6/1/2028	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
	12/1/2028	$46.44	$10.90	$9.75	$6.60	$0.00	$73.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
LABORER: MULTI-TRADE TENDER	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: TREE REMOVER	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
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	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
LASER BEAM OPERATOR (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
MARBLE & TILE FINISHERS	2/1/2026	$45.56	$12.84	$15.10	$5.41	$0.00	$78.91
BRICKLAYERS LOCAL 3 BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	8/1/2026	$47.32	$12.84	$15.10	$5.41	$0.00	$80.67
	2/1/2027	$48.44	$12.84	$15.10	$5.41	$0.00	$81.79

Apprentice: MARBLE & TILE FINISHERS

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$22.78	$12.84	$15.10	$5.41	$0.00	$56.13
2	60.00	$27.34	$12.84	$15.10	$5.41	$0.00	$60.69
3	70.00	$31.89	$12.84	$15.10	$5.41	$0.00	$65.24
4	80.00	$36.45	$12.84	$15.10	$5.41	$0.00	$69.80
5	90.00	$41.00	$12.84	$15.10	$5.41	$0.00	$74.35

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: MARBLE & TILE FINISHERS

Effective Date: 8/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$23.66	$12.84	$15.10	$5.41	$0.00	$57.01
2	60.00	$28.39	$12.84	$15.10	$5.41	$0.00	$61.74
3	70.00	$33.12	$12.84	$15.10	$5.41	$0.00	$66.47
4	80.00	$37.86	$12.84	$15.10	$5.41	$0.00	$71.21
5	90.00	$42.59	$12.84	$15.10	$5.41	$0.00	$75.94

Apprentice to Journeyworker Ratio: 1:5

MECH. SWEEPER OPERATOR (ON CONST. SITES) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
MECHANIC/WELDER/BOOM TRUCK OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
MILLWRIGHT (Zone 3) MILLWRIGHTS LOCAL 1121 MILLWRIGHTS LOCAL 1121 - Zone 3	1/5/2026	$45.20	$10.58	$11.47	$9.75	$0.00	$77.00

Apprentice: MILLWRIGHT (Zone 3)

Effective Date: 1/5/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	55.00	$24.86	$10.58	$0.00	$5.36	$0.00	$40.80
2	65.00	$29.38	$10.58	$0.00	$6.34	$0.00	$46.30
3	75.00	$33.90	$10.58	$11.47	$7.31	$0.00	$63.26
4	85.00	$38.42	$10.58	$11.47	$8.29	$0.00	$68.76

Apprentice Notes

Step 1&2 Appr. indentured after 1/6/2020 receive no pension,

Apprentice to Journeyworker Ratio: 1:4

MORTAR MIXER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19

For apprentice rates see "Apprentice- LABORER"

OILER OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$35.02	$13.78	$12.15	$3.00	$0.00	$63.95

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

OTHER POWER DRIVEN EQUIPMENT - CLASS VI OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$32.74	$13.78	$12.15	$3.00	$0.00	$61.67

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

PAINTER (BRIDGES/TANKS) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$59.56	$10.35	$12.00	$12.60	$0.00	$94.51

Apprentice: PAINTER (BRIDGES/TANKS)

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$29.78	$10.35	$0.00	$0.00	$0.00	$40.13
2	55.00	$32.76	$10.35	$0.00	$6.93	$0.00	$50.04
3	60.00	$35.74	$10.35	$0.00	$7.56	$0.00	$53.65
4	65.00	$38.71	$10.35	$0.00	$8.19	$0.00	$57.25
5	70.00	$41.69	$10.35	$12.00	$8.82	$0.00	$72.86
6	75.00	$44.67	$10.35	$12.00	$9.45	$0.00	$76.47
7	80.00	$47.65	$10.35	$12.00	$10.08	$0.00	$80.08
8	90.00	$53.60	$10.35	$12.00	$11.34	$0.00	$87.29

Apprentice to Journeyworker Ratio: 1:1

PAINTER (SPRAY OR SANDBLAST, NEW) * * If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$42.03	$10.35	$12.00	$8.35	$0.00	$72.73

Apprentice: PAINTER (SPRAY OR SANDBLAST, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$21.02	$10.35	$0.00	$0.00	$0.00	$31.37
2	55.00	$23.12	$10.35	$0.00	$4.59	$0.00	$38.06
3	60.00	$25.22	$10.35	$0.00	$5.01	$0.00	$40.58

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: PAINTER (SPRAY OR SANDBLAST, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
4	65.00	$27.32	$10.35	$0.00	$5.43	$0.00	$43.10
5	70.00	$29.42	$10.35	$12.00	$5.85	$0.00	$57.62
6	75.00	$31.52	$10.35	$12.00	$6.26	$0.00	$60.13
7	80.00	$33.62	$10.35	$12.00	$6.68	$0.00	$62.65
8	90.00	$37.83	$10.35	$12.00	$7.52	$0.00	$67.70

Apprentice to Journeyworker Ratio: 1:1

PAINTER (SPRAY OR SANDBLAST, REPAINT) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$39.35	$10.35	$12.00	$8.35	$0.00	$70.05

Apprentice: PAINTER (SPRAY OR SANDBLAST, REPAINT)

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$19.68	$10.35	$0.00	$0.00	$0.00	$30.03
2	55.00	$21.64	$10.35	$0.00	$4.59	$0.00	$36.58
3	60.00	$23.61	$10.35	$0.00	$5.01	$0.00	$38.97
4	65.00	$25.58	$10.35	$0.00	$5.43	$0.00	$41.36
5	70.00	$27.55	$10.35	$12.00	$5.85	$0.00	$55.75
6	75.00	$29.51	$10.35	$12.00	$6.26	$0.00	$58.12
7	80.00	$31.48	$10.35	$12.00	$6.68	$0.00	$60.51
8	90.00	$35.42	$10.35	$12.00	$7.52	$0.00	$65.29

Apprentice to Journeyworker Ratio: 1:1

PAINTER / TAPER (BRUSH, NEW) * * If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$40.63	$10.35	$12.00	$8.35	$0.00	$71.33

Apprentice: PAINTER / TAPER (BRUSH, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$20.32	$10.35	$0.00	$0.00	$0.00	$30.67
2	55.00	$22.35	$10.35	$0.00	$4.59	$0.00	$37.29
3	60.00	$24.38	$10.35	$0.00	$5.01	$0.00	$39.74
4	65.00	$26.41	$10.35	$0.00	$5.43	$0.00	$42.19
5	70.00	$28.44	$10.35	$12.00	$5.85	$0.00	$56.64
6	75.00	$30.47	$10.35	$12.00	$6.26	$0.00	$59.08
7	80.00	$32.50	$10.35	$12.00	$6.68	$0.00	$61.53

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: PAINTER / TAPER (BRUSH, NEW) *							
Effective Date: 1/1/2026							
Step / Percent		**Apprentice Base Wage**					
8 / 90.00		$36.57	$10.35	$12.00	$7.52	$0.00	$66.44
Apprentice to Journeyworker Ratio: 1:1							
PAINTER / TAPER (BRUSH, REPAINT) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$37.95	$10.35	$12.00	$8.35	$0.00	$68.65
Apprentice: PAINTER / TAPER (BRUSH, REPAINT)							
Effective Date: 1/1/2026							
Step / Percent		**Apprentice Base Wage**					
1 / 50.00		$18.98	$10.35	$0.00	$0.00	$0.00	$29.33
2 / 55.00		$20.87	$10.35	$0.00	$4.59	$0.00	$35.81
3 / 60.00		$22.77	$10.35	$0.00	$5.01	$0.00	$38.13
4 / 65.00		$24.67	$10.35	$0.00	$5.43	$0.00	$40.45
5 / 70.00		$26.57	$10.35	$12.00	$5.85	$0.00	$54.77
6 / 75.00		$28.46	$10.35	$12.00	$6.26	$0.00	$57.07
7 / 80.00		$30.36	$10.35	$12.00	$6.68	$0.00	$59.39
8 / 90.00		$34.16	$10.35	$12.00	$7.52	$0.00	$64.03
Apprentice to Journeyworker Ratio: 1:1							
PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.00	$10.90	$9.75	$6.60	$0.00	$64.25
	12/1/2026	$38.29	$10.90	$9.75	$6.60	$0.00	$65.54
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PANEL & PICKUP TRUCKS DRIVER TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$41.78	$16.17	$21.78	$0.00	$0.00	$79.73
	12/1/2026	$41.78	$16.17	$23.52	$0.00	$0.00	$81.47
	1/1/2027	$41.78	$16.77	$23.52	$0.00	$0.00	$82.07
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK) PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
For apprentice rates see "Apprentice- PILE DRIVER"							
PILE DRIVER PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
Apprentice: PILE DRIVER							
Effective Date: 8/1/2024							
Step / Percent		**Apprentice Base Wage**					

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: PILE DRIVER							
Effective Date: 8/1/2024							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
1 / 45.00		$22.14	$10.08	$0.00	$2.53	$0.00	$34.75
2 / 55.00		$27.05	$10.08	$0.00	$5.07	$0.00	$42.20
3 / 70.00		$34.43	$10.08	$11.62	$7.60	$0.00	$63.73
4 / 80.00		$39.35	$10.08	$11.62	$10.14	$0.00	$71.19
Apprentice to Journeyworker Ratio: 1:5							
PIPELAYER	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
PIPELAYER (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PLUMBER & PIPEFITTER	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
Apprentice: PLUMBER & PIPEFITTER							
Effective Date: 3/17/2026							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
1 / 45.00		$23.74	$13.50	$10.85	$0.00	$0.00	$48.09
2 / 50.00		$26.38	$13.50	$10.85	$0.00	$0.00	$50.73
3 / 55.00		$29.02	$13.50	$10.85	$0.00	$0.00	$53.37
4 / 60.00		$31.66	$13.50	$10.85	$0.00	$0.00	$56.01

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: PLUMBER & PIPEFITTER

Effective Date: 3/17/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
5	65.00	$34.29	$13.50	$10.85	$0.00	$0.00	$58.64
6	70.00	$36.93	$13.50	$10.85	$0.00	$0.00	$61.28
7	75.00	$39.57	$13.50	$10.85	$0.00	$0.00	$63.92
8	80.00	$42.21	$13.50	$10.85	$0.00	$0.00	$66.56
9	85.00	$44.85	$13.50	$10.85	$7.10	$0.00	$76.30
10	85.00	$44.85	$13.50	$10.85	$7.10	$0.00	$76.30

Apprentice: PLUMBER & PIPEFITTER

Effective Date: 9/17/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$24.64	$13.50	$0.00	$0.00	$0.00	$38.14
2	50.00	$27.38	$13.50	$0.00	$0.00	$0.00	$40.88
3	55.00	$30.12	$13.50	$0.00	$0.00	$0.00	$43.62
4	60.00	$32.86	$13.50	$0.00	$0.00	$0.00	$46.36
5	65.00	$35.59	$13.50	$0.00	$0.00	$0.00	$49.09
6	70.00	$38.33	$13.50	$0.00	$0.00	$0.00	$51.83
7	75.00	$41.07	$13.50	$0.00	$0.00	$0.00	$54.57
8	80.00	$43.81	$13.50	$0.00	$0.00	$0.00	$57.31
9	85.00	$46.55	$13.50	$0.00	$7.10	$0.00	$67.15
10	85.00	$46.55	$13.50	$0.00	$7.10	$0.00	$67.15

Apprentice Notes

**1:1,2:5,3:9,4:12

Apprentice to Journeyworker Ratio: 1:1

PNEUMATIC CONTROLS (TEMP.) PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21

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

PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79

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

POWDERMAN & BLASTER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$37.22	$10.90	$9.75	$6.60	$0.00	$64.47
	12/1/2026	$39.64	$10.90	$9.75	$6.60	$0.00	$66.89
	6/1/2027	$41.04	$10.90	$9.75	$6.60	$0.00	$68.29

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	12/1/2027	$42.44	$10.90	$9.75	$6.60	$0.00	$69.69
	6/1/2028	$43.94	$10.90	$9.75	$6.60	$0.00	$71.19
	12/1/2028	$45.44	$10.90	$9.75	$6.60	$0.00	$72.69
For apprentice rates see "Apprentice- LABORER"							
POWDERMAN & BLASTER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$38.00	$10.90	$9.75	$6.60	$0.00	$65.25
	12/1/2026	$39.29	$10.90	$9.75	$6.60	$0.00	$66.54
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PUMP OPERATOR (CONCRETE) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
PUMP OPERATOR (DEWATERING, OTHER) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
READY-MIX CONCRETE DRIVER TEAMSTERS 404 - Construction Service (Northampton) TEAMSTERS 404 - Construction Service (Northampton)	5/1/2024	$26.14	$11.82	$7.25	$0.00	$0.00	$45.21
RIDE-ON MOTORIZED BUGGY OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
ROLLER OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$38.42	$13.78	$12.15	$3.00	$0.00	$67.35
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
ROOFER (Coal tar pitch) ROOFERS LOCAL 248 ROOFERS LOCAL 248	7/16/2026	$46.73	$10.60	$8.70	$10.00	$0.00	$76.03
For apprentice rates see "Apprentice- ROOFER"							
ROOFER (Inc.Roofer Waterproofng &Roofer Damproofg) ROOFERS LOCAL 248 ROOFERS LOCAL 248	7/16/2026	$46.23	$10.60	$8.70	$10.00	$0.00	$75.53

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
ROOFER SLATE / TILE / PRECAST CONCRETE ROOFERS LOCAL 248 ROOFERS LOCAL 248 For apprentice rates see "Apprentice- ROOFER"	7/16/2026	$46.73	$10.60	$8.70	$10.00	$0.00	$76.03
SCRAPER OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
SELF-POWERED ROLLERS AND COMPACTORS (TAMPERS) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$38.42	$13.78	$12.15	$3.00	$0.00	$67.35
SELF-PROPELLED POWER BROOM OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$35.80	$13.78	$12.15	$3.00	$0.00	$64.73
SHEETMETAL WORKER SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	$43.48	$13.24	$11.01	$9.92	$2.13	$79.78
	1/1/2027	$43.48	$13.54	$11.01	$11.12	$2.13	$81.28
	7/1/2027	$44.98	$13.54	$11.01	$11.12	$2.13	$82.78
	1/1/2028	$46.48	$13.54	$11.01	$11.12	$2.13	$84.28

Apprentice: SHEETMETAL WORKER

Effective Date: 7/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.57	$5.96	$4.95	$0.00	$0.85	$31.33
2	50.00	$21.74	$6.62	$5.51	$0.00	$0.94	$34.81
3	55.00	$23.91	$7.28	$9.91	$0.00	$1.15	$42.25
4	60.00	$26.09	$7.94	$9.91	$0.00	$1.23	$45.17
5	65.00	$28.26	$8.60	$9.91	$0.00	$1.31	$48.08
6	70.00	$30.44	$9.27	$9.91	$0.00	$1.39	$51.01
7	75.00	$32.61	$9.93	$9.91	$0.00	$1.47	$53.92
8	80.00	$34.78	$10.59	$9.91	$9.92	$1.78	$66.98
9	85.00	$36.96	$11.25	$9.91	$9.92	$1.86	$69.90
10	90.00	$39.13	$11.92	$9.91	$9.92	$1.94	$72.82

Apprentice: SHEETMETAL WORKER

Effective Date: 1/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.57	$6.09	$4.95	$0.00	$0.85	$31.46
2	50.00	$21.74	$6.77	$5.51	$0.00	$0.94	$34.96
3	55.00	$23.91	$7.45	$9.91	$0.00	$1.15	$42.42
4	60.00	$26.09	$8.36	$9.91	$0.00	$1.23	$45.59
5	65.00	$28.26	$8.86	$9.91	$0.00	$1.31	$48.34

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: SHEETMETAL WORKER							
Effective Date: 1/1/2027							
Step / Percent		**Apprentice Base Wage**					
6 / 70.00		$30.44	$9.48	$9.91	$0.00	$1.39	$51.22
7 / 75.00		$32.61	$10.15	$9.91	$0.00	$1.47	$54.14
8 / 80.00		$34.78	$10.83	$9.91	$11.12	$1.78	$68.42
9 / 85.00		$36.96	$11.51	$9.91	$11.12	$1.86	$71.36
10 / 90.00		$39.13	$12.18	$9.91	$11.12	$1.94	$74.28
Apprentice to Journeyworker Ratio: 1:3							
SPECIALIZED EARTH MOVING EQUIP < 35 TONS	6/1/2026	$42.24	$16.17	$21.78	$0.00	$0.00	$80.19
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	$42.24	$16.17	$23.52	$0.00	$0.00	$81.93
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	$42.24	$16.77	$23.52	$0.00	$0.00	$82.53
SPECIALIZED EARTH MOVING EQUIP > 35 TONS	6/1/2026	$42.53	$16.17	$21.78	$0.00	$0.00	$80.48
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	$42.53	$16.17	$23.52	$0.00	$0.00	$82.22
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	$42.53	$16.77	$23.52	$0.00	$0.00	$82.82
SPRINKLER FITTER	7/1/2026	$56.54	$13.60	$7.45	$9.41	$0.00	$87.00
SPRINKLER FITTERS LOCAL 669	10/1/2026	$56.54	$13.60	$7.45	$9.41	$0.00	$87.00
SPRINKLER FITTERS LOCAL 669	1/1/2027	$56.54	$14.55	$7.50	$9.41	$0.00	$88.00
	4/1/2027	$59.83	$14.55	$7.50	$9.41	$0.00	$91.29
	7/1/2027	$59.83	$14.55	$7.50	$9.41	$0.00	$91.29
	10/1/2027	$59.83	$14.55	$7.50	$9.41	$0.00	$91.29
	1/1/2028	$59.83	$15.50	$7.55	$9.41	$0.00	$92.29

Apprentice: SPRINKLER FITTER

Effective Date: 7/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	43.00	$28.36	$9.64	$0.00	$0.00	$0.00	$38.00
2	48.00	$31.66	$9.64	$0.00	$0.00	$0.00	$41.30
3	52.00	$34.29	$13.60	$7.45	$1.15	$0.00	$56.49
4	56.00	$36.93	$13.60	$7.45	$1.15	$0.00	$59.13
5	59.00	$38.91	$13.60	$7.45	$1.40	$0.00	$61.36
6	64.00	$42.21	$13.60	$7.45	$1.40	$0.00	$64.66
7	68.00	$44.85	$13.60	$7.45	$1.40	$0.00	$67.30
8	72.00	$47.48	$13.60	$7.45	$1.40	$0.00	$69.93
9	76.00	$50.12	$13.60	$7.45	$1.40	$0.00	$72.57
10	80.00	$52.76	$13.60	$7.45	$1.40	$0.00	$75.21

Apprentice: SPRINKLER FITTER

Effective Date: 10/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
TELECOMMUNICATION TECHNICIAN ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
TELECOMMUNICATION TECHNICIAN ELECTRICIANS LOCAL 7	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37

For apprentice rates and ratios see "Apprentice- ELECTRICIAN"

Apprentice: SPRINKLER FITTER

Effective Date: 10/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	43.00	$28.36	$0.00	$0.00	$0.00	$0.00	$28.36
2	48.00	$31.66	$0.00	$0.00	$0.00	$0.00	$31.66
3	52.00	$34.29	$0.00	$0.00	$1.15	$0.00	$35.44
4	56.00	$36.93	$0.00	$0.00	$1.15	$0.00	$38.08
5	59.00	$38.91	$0.00	$0.00	$1.40	$0.00	$40.31
6	64.00	$42.21	$0.00	$0.00	$1.40	$0.00	$43.61
7	68.00	$44.85	$0.00	$0.00	$1.40	$0.00	$46.25
8	72.00	$47.48	$0.00	$0.00	$1.40	$0.00	$48.88
9	76.00	$50.12	$0.00	$0.00	$1.40	$0.00	$51.52
10	80.00	$52.76	$0.00	$0.00	$1.40	$0.00	$54.16

Apprentice to Journeyworker Ratio: 1:1

Apprentice: TELECOMMUNICATION TECHNICIAN

Effective Date: 6/28/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	$21.76	$7.80	$0.63	$0.00	$0.00	$30.19
2	45.00	$24.48	$7.80	$0.70	$0.00	$0.00	$32.98
3	50.00	$27.21	$14.00	$7.53	$0.00	$0.00	$48.74
4	55.00	$29.93	$14.00	$7.61	$0.00	$0.00	$51.54
5	65.00	$35.37	$14.00	$9.84	$0.00	$0.00	$59.21
6	70.00	$38.09	$14.00	$11.30	$0.00	$0.00	$63.39

Apprentice: TELECOMMUNICATION TECHNICIAN

Effective Date: 1/3/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	$22.22	$7.95	$0.63	$0.00	$0.00	$30.80
2	45.00	$25.00	$7.95	$0.70	$0.00	$0.00	$33.65
3	50.00	$27.78	$14.25	$7.53	$0.00	$0.00	$49.56
4	55.00	$30.56	$14.25	$7.61	$0.00	$0.00	$52.42
5	65.00	$36.11	$14.25	$9.84	$0.00	$0.00	$60.20
6	70.00	$38.89	$14.25	$11.30	$0.00	$0.00	$64.44

Apprentice to Journeyworker Ratio: 1:1

TERRAZZO FINISHERS	2/10/2026	$66.89	$12.84	$15.57	$8.02	$0.00	$103.32

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BRICKLAYERS LOCAL 3	8/1/2026	$69.09	$12.84	$15.57	$8.02	$0.00	$105.52
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/1/2027	$70.49	$12.84	$15.57	$8.02	$0.00	$106.92

Apprentice: TERRAZZO FINISHERS

Effective Date: 2/10/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$33.45	$12.84	$15.57	$8.02	$0.00	$69.88
2	60.00	$40.13	$12.84	$15.57	$8.02	$0.00	$76.56
3	70.00	$46.82	$12.84	$15.57	$8.02	$0.00	$83.25
4	80.00	$53.51	$12.84	$15.57	$8.02	$0.00	$89.94
5	90.00	$60.20	$12.84	$15.57	$8.02	$0.00	$96.63

Apprentice: TERRAZZO FINISHERS

Effective Date: 8/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$34.55	$12.84	$15.57	$8.02	$0.00	$70.98
2	60.00	$41.45	$12.84	$15.57	$8.02	$0.00	$77.88
3	70.00	$48.36	$12.84	$15.57	$8.02	$0.00	$84.79
4	80.00	$55.27	$12.84	$15.57	$8.02	$0.00	$91.70
5	90.00	$62.18	$12.84	$15.57	$8.02	$0.00	$98.61

Apprentice to Journeyworker Ratio: 1:5

TERRAZZO MECHANIC	2/1/2026	$67.97	$12.84	$15.57	$7.99	$0.00	$104.37
BRICKLAYERS LOCAL 3	8/1/2026	$70.17	$12.84	$15.57	$7.99	$0.00	$106.57
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/1/2027	$71.57	$12.84	$15.57	$7.99	$0.00	$107.97

Apprentice: TERRAZZO MECHANIC

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$33.99	$12.84	$15.57	$7.99	$0.00	$70.39
2	60.00	$40.78	$12.84	$15.57	$7.99	$0.00	$77.18
3	70.00	$47.58	$12.84	$15.57	$7.99	$0.00	$83.98
4	80.00	$54.38	$12.84	$15.57	$7.99	$0.00	$90.78
5	90.00	$61.17	$12.84	$15.57	$7.99	$0.00	$97.57

Apprentice: TERRAZZO MECHANIC

Effective Date: 8/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$35.09	$12.84	$15.57	$7.99	$0.00	$71.49
2	60.00	$42.10	$12.84	$15.57	$7.99	$0.00	$78.50

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: TERRAZZO MECHANIC							
Effective Date: 8/1/2026							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
3 / 70.00		$49.12	$12.84	$15.57	$7.99	$0.00	$85.52
4 / 80.00		$56.14	$12.84	$15.57	$7.99	$0.00	$92.54
5 / 90.00		$63.15	$12.84	$15.57	$7.99	$0.00	$99.55
Apprentice to Journeyworker Ratio: 1:5							
TEST BORING DRILLER	6/1/2026	$53.25	$10.90	$9.75	$9.80	$0.00	$83.70
LABORERS LABORERS - FOUNDATION AND MARINE	12/1/2026	$54.75	$10.90	$9.75	$9.80	$0.00	$85.20
For apprentice rates see "Apprentice- LABORER"							
TEST BORING DRILLER HELPER	6/1/2026	$49.37	$10.90	$9.75	$9.80	$0.00	$79.82
LABORERS LABORERS - FOUNDATION AND MARINE	12/1/2026	$50.87	$10.90	$9.75	$9.80	$0.00	$81.32
For apprentice rates see "Apprentice- LABORER"							
TEST BORING LABORER	6/1/2026	$49.25	$10.90	$9.75	$9.80	$0.00	$79.70
LABORERS LABORERS - FOUNDATION AND MARINE	12/1/2026	$50.75	$10.90	$9.75	$9.80	$0.00	$81.20
For apprentice rates see "Apprentice- LABORER"							
TRACTORS	12/1/2023	$38.42	$13.78	$12.15	$3.00	$0.00	$67.35
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
TRAILERS FOR EARTH MOVING EQUIPMENT	6/1/2026	$42.82	$16.17	$21.78	$0.00	$0.00	$80.77
TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	12/1/2026	$42.82	$16.17	$23.52	$0.00	$0.00	$82.51
	1/1/2027	$42.82	$16.77	$23.52	$0.00	$0.00	$83.11
TUNNEL WORK - COMPRESSED AIR	6/1/2026	$61.48	$10.90	$9.75	$10.25	$0.00	$92.38
LABORERS LABORERS (COMPRESSED AIR)	12/1/2026	$62.98	$10.90	$9.75	$10.25	$0.00	$93.88
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE)	6/1/2026	$63.48	$10.90	$9.75	$10.25	$0.00	$94.38
LABORERS LABORERS (COMPRESSED AIR)	12/1/2026	$64.98	$10.90	$9.75	$10.25	$0.00	$95.88
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - FREE AIR	6/1/2026	$53.55	$10.90	$9.75	$10.25	$0.00	$84.45
LABORERS LABORERS (FREE AIR TUNNEL)	12/1/2026	$55.05	$10.90	$9.75	$10.25	$0.00	$85.95
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - FREE AIR (HAZ. WASTE)	6/1/2026	$55.55	$10.90	$9.75	$10.25	$0.00	$86.45
LABORERS LABORERS (FREE AIR TUNNEL)	12/1/2026	$57.05	$10.90	$9.75	$10.25	$0.00	$87.95
For apprentice rates see "Apprentice- LABORER"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
VAC-HAUL TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.24	$16.17	$21.78	$0.00	$0.00	$80.19
	12/1/2026	$42.24	$16.17	$23.52	$0.00	$0.00	$81.93
	1/1/2027	$42.24	$16.77	$23.52	$0.00	$0.00	$82.53
WAGON DRILL OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
WATER METER INSTALLER PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$56.26	$12.00	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"							

Marine Drilling

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BLASTER MARINE DRILLING MARINE DRILLING	1/1/2018	$41.82	$7.63	$2.35	$1.25	$0.00	$53.05
BOAT CAPTAIN MARINE DRILLING MARINE DRILLING	1/1/2018	$33.87	$7.63	$2.35	$0.95	$0.00	$44.80
BOAT CAPTAIN / Over 1,000 hp MARINE DRILLING MARINE DRILLING	1/1/2018	$38.06	$7.63	$2.35	$1.25	$0.00	$49.29
CORE DRILLER MARINE DRILLING MARINE DRILLING	1/1/2018	$31.43	$7.63	$2.25	$0.65	$0.00	$41.96
CORE DRILLER HELPER MARINE DRILLING MARINE DRILLING	1/1/2018	$28.47	$7.63	$2.35	$0.65	$0.00	$39.10
DRILLER MARINE DRILLING MARINE DRILLING	1/1/2018	$39.70	$7.63	$2.35	$1.25	$0.00	$50.93
ENGINEER MARINE DRILLING MARINE DRILLING	1/1/2018	$39.69	$7.63	$2.25	$1.25	$0.00	$50.82
HELPER MARINE DRILLING MARINE DRILLING	1/1/2018	$34.24	$7.63	$2.35	$0.65	$0.00	$44.87
MACHINIST MARINE DRILLING MARINE DRILLING	1/1/2018	$38.88	$7.63	$2.35	$0.95	$0.00	$49.81
OILER - MARINE DRILLING MARINE DRILLING MARINE DRILLING	1/1/2018	$34.24	$7.63	$2.35	$0.65	$0.00	$44.87
TUG DECKHAND MARINE DRILLING MARINE DRILLING	1/1/2018	$27.61	$7.63	$2.35	$0.65	$0.00	$38.24
WELDER MARINE DRILLING MARINE DRILLING	1/1/2018	$38.88	$7.63	$2.35	$0.95	$0.00	$49.81

Op Eng Marine (Dredging Work)

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BOAT OPERATOR OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$29.26	$7.63	$2.35	$0.95	$0.00	$40.19
CERTIFIED WELDER OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$31.09	$7.63	$2.35	$1.25	$0.00	$42.32
CHIEF WELDER/ CHIEF MATE OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$33.02	$7.63	$2.35	$1.25	$0.00	$44.25
DERRICK / SPIDER / SPILLBARGE OPERATOR OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$33.02	$7.63	$2.35	$1.25	$0.00	$44.25
DRAG BARGE OPERATOR / WELDER / MATE OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$30.24	$7.63	$2.35	$0.95	$0.00	$41.17
ENGINEER / ELECTRICIAN OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$33.02	$7.63	$2.35	$1.25	$0.00	$44.25
LICENSED BOAT OPERATOR OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$33.02	$7.63	$2.35	$1.25	$0.00	$44.25
LICENSED TUG OPERATOR OVER 1000HP OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$38.18	$7.63	$2.35	$1.25	$0.00	$49.41
MAINTENANCE ENGINEER OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$33.03	$7.63	$2.35	$1.25	$0.00	$44.26
OILER - MARINE DIVISION OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$24.30	$7.63	$2.35	$0.65	$0.00	$34.93
OPERATOR / LEVERMAN OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$38.18	$7.63	$2.35	$1.25	$0.00	$49.41
RODMAN / SCOWMAN OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$24.30	$7.63	$2.35	$0.65	$0.00	$34.93
SHOREMAN / DECKHAND OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	$24.30	$7.63	$2.35	$0.65	$0.00	$34.93

Additional Apprentice Information

All apprentices must be registered with the Division of Apprenticeship Training(DAS) in accordance with M.G.L.c. 23, §§ 11E-11L. Minimum wage rates for apprentices employed on public works projects are listed above as a percentage of the hourly prevailing wage rate established by the Commissioner under the provisions of M.G.L.c. 149, §§ 26-27D.

Apprentice ratios are established by DAS pursuant to M.G.L.c. 23, §§ 11E-11L. Ratios are expressed as the allowable number of apprentices to journeymen or fraction thereof, unless otherwise specified. The ratios listed herein have been taken from relevant private collective bargaining agreements(CBAs) and are provided for illustrative purposes only. They have not been independently verified as being accurate or continuing to be accurate.

Parties having questions regarding what ratio to use should contact DAS.

DOCUMENT A00801

SPECIAL PROVISIONS

ASHFIELD-CHARLEMONT-CONWAY-HAWLEY

Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 1)

Labor participation goals for this Project shall be 15.3% for minorities and 6.9% for women for each job category. The goals are applicable to both Contractor's and Subcontractor's on-site construction workforce. Refer to Document 00820 for details.

SCOPE OF WORK

All work under this Contract shall be done in conformance with the *2026 Standard Specifications for Highways and Bridges, the Supplemental Specifications* contained in this book, the *Construction Standard Details* in effect as of May 2026, the *1990 Standard Drawings for Signs and Supports*, the 2015 *Overhead Signal Structure and Foundation Standard Drawings*, the *11th Edition of the Manual on Uniform Traffic Control Devices (MUTCD)* and the *January 2026 Massachusetts Amendments to the MUTCD*, *the 1968 Standard Drawings for Traffic Signals and Highway Lighting*, the latest edition of The *American Standard for Nursery Stock*, the Plans and these Special Provisions.

The work to be done at six (6) bridges under this Contract consists of:

1) Bridge A-13-014 (0FN) Apple Valley Road over Upper Branch Clesson Brook:
The Apple Valley Road over Upper Branch Clesson Brook Bridge Preservation Project is located on a rural local road located approximately 350 feet west of the Smith Branch Road intersection in the Town of Ashfield. The bridge currently has a posted weight restriction of 15 tons for two axles, 17 tons for three axles, and 25 tons for five axles. The superstructure condition is poor and the substructure and bridge deck condition is generally satisfactory. The work includes the encasement of four deteriorated steel beam ends in a steel reinforced and concrete encased jacket. The details that have been reviewed and approved by MassDOT and the traffic management plans required to perform the construction are included in the Drawings and Sketches (see **Document A00803**).

2) Bridge A-13-020 (0FM) Apple Valley Road over Upper Branch Clesson Brook:
The Apple Valley Road over Upper Branch Clesson Brook Bridge Preservation Project is located on a rural local road located approximately 350 feet west of the Smith Branch Road intersection in the Town of Ashfield. The bridge currently has a posted weight restriction of 19 tons for two axles, 22 tons for three axles, and 36 tons for five axles. The superstructure and substructure condition is poor and the bridge deck condition is generally good. The work includes the encasement of one deteriorated steel beam end in a steel reinforced and concrete encased jacket. The details that have been reviewed and approved by MassDOT and the traffic management plans required to perform the construction are included in the Drawings and Sketches (see **Document A00803**).

SCOPE OF WORK (Continued)

3) Bridge A-13-026 (5CT) Creamery Road over Creamery Brook:
The Creamery Road over Creamery Brook Bridge Preservation Project is located on a rural local road located approximately one quarter mile west of Brier Hill Road in the Town of Ashfield. The bridge currently has no posted weight limits. The superstructure condition is serious, the substructure condition is fair and the bridge deck condition is generally satisfactory. The work includes the encasement of one deteriorated steel beam end in a steel reinforced and concrete encased jacket. The details that have been reviewed and approved by MassDOT and the traffic management plans required to perform the construction are included in the Drawings and Sketches (see **Document A00803**).

4) Bridge C-05-035 (0G0) Burnt Hill Road over Wilder Brook:
The Burnt Hill Road over Wilder Brook Preservation Project is located on a local rural road located approximately 0.7 miles from ST 2 in the Town of Charlemont. The bridge currently has no posted weight limits. The superstructure and substructure conditions are poor, and the deck condition is fair. The work includes three beam end steel repairs, four bottom flange repairs, concrete repairs to areas of scaling and spalling along the copings, and undermining repairs at each abutment. The details that have been reviewed and approved by MassDOT and the traffic management plans required to perform the construction are included in the Drawings and Sketches (see **Document A00803**).

5) Bridge C-20-005 (0F2) Poland Road over South River:
The Poland Road over South River Bridge Preservation Project is located on a rural local road located approximately 150 feet west of the Ashfield Road intersection in the Town of Conway. The bridge currently has no posted weight limits. The superstructure is in poor condition while the deck and substructure are in generally good condition. The work includes UHPC encasement at the beam ends around the existing bearings. The details that have been reviewed and approved by MassDOT and the traffic management plans required to perform the construction are included in the Drawings and Sketches (see **Document A00803**).

6) Bridge H-13-004 (0F8) W Hawley Road/ State Route 8A over Chickley River:
The W Hawley Road/ State Route 8A over Chickley River Bridge Preservation Project is located on a major collector road located at the Savory Road intersection in the Town of Hawley. The bridge currently has no posted weight limits. The superstructure and substructure are in poor condition, and the bridge deck condition is generally satisfactory. The work includes two midspan beam repairs, three beam end repairs, the replacement of two end diaphragms, concrete repairs to areas of scaling and spalling along the curbs and copings, two deck drain retrofits, three bearing adjustments, the removal and replacement of two bearing anchor bolts, and concrete substructure repairs. The details that have been reviewed and approved by MassDOT and the traffic management plans required to complete construction will be included in the Drawings and Sketches (see **Document A00803**).

Additionally, the following work is to be done at all six (6) bridges:

Field verify repair details provided in the Drawings and Sketches (see **Document A00803**) and notify the Engineer of any discrepancies found based on the field verification. No work shall be performed under this contract until specifically authorized and directed by the Engineer.

SCOPE OF WORK (Continued)

Provide and install temporary containment system/protective shielding as required to perform paint removal and concrete excavation in accordance with the respective special provisions.

Maintenance of traffic during all operations according to the Temporary Traffic Control Plans shown on the Drawings and Sketches (see **Document A00803**).

CONTRACTOR QUESTIONS AND ADDENDUM ACKNOWLEDGEMENTS

Prospective bidders are required to submit all questions to the Construction Contracts Engineer by 3:00 P.M. on the Tuesday of the previous week before the scheduled bid opening date. Any questions received after this time will not be considered for review by the Department.

Contractors should email questions and addendum acknowledgements to the following email address massdotspecifications@dot.state.ma.us The MassDOT proposal number and municipality is to be placed in the subject line.

CONTRACTOR ACCESS

Contractors shall be aware that there are multi-span bridges with abutments located away from the road. No compensation will be made for access roads to get equipment or personnel to the work site. In addition, no compensation will be made for staging to access repair areas, etc.

SCHEDULE OF WORK

All proposed work hours shall conform to Subsection 7.09 and be subject to the written approval of the Engineer.

Daytime operations shall be done Monday through Friday, between the hours of 7:00 AM and 3:30 PM. Work may not proceed beyond the normal 8-hour day unless prior approval is obtained from the Engineer for that day. Approval to work beyond the scheduled work will only be given when special conditions exist that warrant working beyond the scheduled work as determined by the Engineer.

Contractor shall schedule work to expedite bridge work with a minimum disruption to road users and minimal impact to environmental resources while providing work zone safety. As a result, the Contractor is encouraged to perform concurrent work to facilitate on-time, on-budget project completion.

These time periods include the "set-up" and "breakdown" of the traffic pattern employed. No operations, personnel, or equipment will be allowed on the roadways except during working hours.

SCHEDULE OF WORK (Continued)

All work shall be performed within, and accessed by, existing State, City or Town roadway layouts. No rights to enter on, or occupy, private property or waterways have been acquired for this project.

The work may be performed on a maximum of two (2) of the bridges under this Contract at the same time. All detours and lane closures shall be in place for a maximum of six (6) weeks. The detour for bridge C-20-005 (0F2) shall only be in place between July 1st to August 31st. Lane closures and detours shall not be in place simultaneously for Bridges A-13-014 (0FN), A-13-020 (0FM), and A-13-026 (5CT).

The Contractor shall coordinate all construction operations with the municipalities of Ashfield, Charlemont, Conway, and Hawley, including traffic control, lane closures, detours, staging, and work hours. A minimum of 14 calendar days written notice shall be provided to the municipalities and the Engineer prior to any traffic control setup, lane closure, detour, or staging change. A minimum of 72 hours notice shall be provided for short-duration or temporary changes unless otherwise approved by the Engineer. No night work shall be permitted unless approved by the Engineer.

The Contractor shall coordinate with local police, fire, and emergency services to maintain emergency access at all times and shall maintain access to residences, businesses, and abutting properties at all times unless otherwise approved by the Engineer. The Contractor shall coordinate all operations with the adjacent property owner to maintain access and operational needs and shall maintain steel plates on-site or readily available to provide temporary access during deck repair operations as directed by the Engineer. The Contractor shall designate a single point of contact for coordination and provide contact information to the Engineer and municipalities prior to commencement of work.

No separate payment will be made for required coordination work with the municipalities.

The project involves bridge preservation at multiple locations. The Contractor shall be permitted to incorporate the Temporary Traffic Control Plans (TTCP) shown on the Drawings and Sketches (see **Document A00803**). at each bridge to allow work to be performed concurrently across all bridges.

The Contractor shall schedule work to ensure the final coat of paint is not damaged by other operations. Any damage to coatings due to other Contractor's operations shall be repaired at the Contractor's expense.

The Contractor shall schedule the work with consideration that zinc primer alone left exposed may deteriorate over a season. If the zinc primer is left exposed the contractor will be responsible for any surface preparation or rework needed prior to the application of the intermediate and final coats. Consideration should be given to applying the full three-coat system in a single season in all areas that do not require steel repairs, to limit rework as much as practical.

The Contractor shall pursue all reasonable means to minimize road closures by ensuring that all required work is being performed simultaneously.

SUBSECTION 8.06 LIMITATIONS OF OPERATIONS

Add/amend the following at the end of the Section:

Access Restraints:

An Access Restraint is a restriction of physical work, of a specific area or operation in the Contract, to allow all bidders to evaluate anticipated work restrictions, equally, during the pre-bid planning stages.

This Contract contains the following Access Restraints that shall be included in the Contractor's Baseline Schedule submission, in accordance with the terms and conditions of the contract that identifies the Access Restraints noted below:

- **AR#1 – Access Restraint #01**: The Contractor shall use one lane alternating staged construction for Bridge Structure Number A-13-026 (5CT), Creamery Road in Ashfield.
- **AR#2 – Access Restraint #02:** The Contractor shall use one lane alternating staged construction for Bridge Structure Number H-13-004 (0F8), West Hawley Road in Hawley.
- **AR#3 – Access Restraint #03:** The Contractor shall use one lane alternating staged construction for Bridge Structure Number C-05-035 (0G0), Burnt Hill Road in Charlemont.

Work Restrictions:

Additionally, this contract contains the following work restrictions:

- Bridge Structure Numbers A-13-014 (0FN), A-13-020 (0FM), and C-20-005 (0F2) shall be closed to traffic, to accomplish the work described to repair and reopen the bridge to traffic.
- No temporary traffic control other than daily traffic set ups are to be in place during winter shutdowns.
- All work must be scheduled and coordinated with the respective municipalities. The municipalities must be notified a minimum of 30 days prior to the work commencing.
- Each long term temporary traffic control shall be in place no longer than 6 weeks.

HOLIDAY WORK RESTRICTIONS

(Supplementing Subsection 7.09)

The District Highway Director (DHD) may authorize work to continue during these specified time periods if it is determined by the District that the work will not negatively impact the traveling public. DHD may allow work in those areas on a case by case basis and where work is behind barrier and will not impact traffic

Below are the holiday work restrictions:

New Years Day (Federal Holiday)
No work on major arterial roadways from 5:00 AM on the day before until the normal start of business on the next subsequent business day. No work on local roadways on the holiday without permission by the DHD and the local police chief.

HOLIDAY WORK RESTRICTIONS (Continued)

Martin Luther King's Birthday (Federal Holiday)
No work restrictions due to traffic concerns, however work on local roadways requires permission by the DHD and local police chief.

President's Day (Federal Holiday)
No work restrictions due to traffic concerns, however work on local roadways requires permission by the DHD and local police chief.

Evacuation Day (Suffolk County State Holiday)
No work restrictions due to traffic concerns.

Patriot's Day (State Holiday)
Work restrictions will be in place for Districts 3 and 6 along the entire Boston Marathon route and any other locations that the DHD in those districts determine are warranted so as to not to impact the marathon. All other districts work restrictions will be as per DHD.

Mother's Day
No work on Western Turnpike and Metropolitan Highway System from 5:00 AM on the Friday before, until the normal start of business on the following day.

Memorial Day (Federal Holiday)
No work on major arterial roadways from 5:00 AM on the Friday before, until the normal start of business on the following day.

Bunker Hill Day (Suffolk County State Holiday)
No work restrictions due to traffic concerns.

Juneteenth
No work restrictions due to traffic concerns, however work on local roadways requires permission by the DHD and local police chief.

Independence Day (Federal Holiday)
No work on major arterial roadways from 5:00 AM on the day before until the normal start of business on the next subsequent business day. No work on local roadways on the holiday without permission by the DHD and the local police chief.

Labor Day (Federal Holiday)
No work on major arterial roadways from 5:00 AM on the Friday before, until the normal start of business on the following day.

Columbus Day (Federal Holiday)
No work on major arterials from 5:00 AM on the Friday before, until the normal start of business on the following day

Veterans' Day (Federal Holiday)
No work restrictions due to traffic concerns.

HOLIDAY WORK RESTRICTIONS (Continued)

Thanksgiving Day (Federal Holiday)
No work on major arterials from 5:00 AM two days before until the normal start of business on the following Monday.

Christmas Day (Federal Holiday)
No work on major arterial roadways from 5:00 AM on the day before until the normal start of business on the next subsequent business day.

SUBSECTION 8.02 SCHEDULE OF OPERATIONS
Replace this subsection with the following:

An integrated cost and schedule controls program shall be implemented by the Contractor to track and document the progress of the Work from Notice to Proceed (NTP) through the Contractor Field Completion (CFC) Milestone. The Contractor's schedules will be used by the Engineer to monitor project progress, plan the level-of-effort required by the Department's work force and consultants and as a critical decision-making tool. Accordingly, the Contractor shall ensure that it complies fully with the requirements specified herein and that its schedules are both accurate and updated as required by the specification throughout the life of the project. Detailed requirements are provided in Division II, Section 722 Construction Scheduling.

EQUIVALENT SINGLE AXLE LOADS (ESALS)

The estimated traffic level to be used for SUPERPAVE HMA mixture designs for this contract, expressed in Equivalent Single Axle Loads (ESALs) for the design travel lane over a 20-year period, is 0.70 Million 18-kip (80-kn) ESALs.

NONCONFORMING COMPRESSIVE STRENGTH OF CEMENT CONCRETE

Concrete with compressive strength test results failing to attain the limits specified in Table 901.64-3 of 901.64.B: Acceptance Testing shall be evaluated for structural adequacy and serviceability at the Contractors' expense. The Department will review all production records, the concrete test records, petrographic analysis report, field notes, and the placement records for the concrete in question. If the Engineer determines the material is found to be adequate to remain in place, payment shall be adjusted in accordance with the following formula:

$$P = \frac{2(fc - f'c)(UP)(Q)}{f'c}$$

Where:

P = pay adjustment for substandard concrete
$f'c$ = specified minimum compressive strength at 28 days
fc = substandard concrete cylinder compressive strength at 56 days
Q = quantity of concrete represented by the acceptance cylinders tested
UP = unit contract price or the lump sum breakdown price per cubic yard for the class of concrete involved complete in place

SUBSECTION 8.14 UTILITY COORDINATION, DOCUMENTATION, AND MONITORING RESPONSIBILITIES

A. GENERAL

In accordance with the provisions of Section 8.00 Prosecution and Progress, utility coordination is a critical aspect to this Contract. This section defines the responsibility of the Contractor and MassDOT, with regard to the initial utility relocation plan and changes that occur as the prosecution of the Work progresses. The Engineer, with assistance from the Contractor shall coordinate with Utility companies that are impacted by the Contractor's operations. To support this effort, the Contractor shall provide routine and accurate schedule updates, provide notification of delays, and provide documentation of the steps taken to resolve any conflicts for the temporary and/or permanent relocations of the impacted utilities. The Contractor shall provide copies to the Engineer of the Contractor communication with the Utility companies, including but not limited to:

- Providing advanced notice, for all utility-related meetings initiated by the Contractor.
- Providing meeting minutes for all utility-related meetings that the Contractor attends.
- Providing all test pit records.
- Request for Early Utility work requirements of this section (see below).
- Notification letters for any proposed changes to Utility start dates and/or sequencing.
- Written notification to the Engineer of all apparent utility delays within seven (7) Calendar Days after a recognized delay to actual work in the field – either caused by a Utility or the Contractor.
- Any communication, initiated by the Contractor, associated with additional Right-of-Way needs in support of utility work.
- Submission of completed Utility Completion Forms.

B. PROJECT UTILITY COORDINATION (PUC) FORM

The utility schedule and sequence information provided in the Project Utility Coordination Form (if applicable) is the best available information at the time of the bid and has been considered in setting the contract duration. The Contractor shall use all of this information in developing the bid price and the Baseline Schedule Submission, inclusive of the individual utility durations sequencing requirements, and any work that has been noted as potentially concurrent utility installations.

C. INITIATION OF UTILITY WORK

The Engineer will issue all initial notice-to-proceed dates to each Utility company based on either the:

1) Contractor's accepted Baseline Schedule
2) An approved Early Utility Request in the form of an Early Utility sub-net schedule (in accordance with the requirements of this Subsection)
3) An approved Proposal Schedule

SUBSECTION 8.14 (Continued)

C.1 - BASELINE SCHEDULE – UTILITY BASIS
The Contractor shall provide a Baseline Schedule submission in accordance with the requirements of Subsection 8.02 and inclusive of all of the information provided in the PUC Form that has been issued in the Contract documents.

This is to include the utility durations, sequencing of work, allowable concurrent work, and all applicable considerations that have been depicted on the PUC Form.

C.2 – EARLY UTILITY REQUEST – (aka SUBNET SCHEDULE) PRIOR TO THE BASELINE
All early utility work is defined as any anticipated/required utility relocations that need to occur prior to the Baseline Schedule acceptance. In all cases of proposed early utility relocation, the Contractor shall present all known information at the pre-construction conference in the form of a 'sub-net' schedule showing when each early utility activity needs to be issued a notice-to-proceed. The Contractor shall provide advance notification of this intent to request early utility work in writing at or prior to the Pre-Construction meeting. Prior to officially requesting approval for early utility work, the Contractor shall also coordinate with MassDOT and all utility companies (private, state or municipal) which may be impacted by the Contract. If this request is acceptable to the Utilities and to MassDOT, the Engineer will issue a notice-to-proceed to the affected Utilities, based on these accepted dates.

C.3 – PROPOSAL SCHEDULE - CHANGES TO THE PUC FORM
If the Contractor intends to submit a schedule (in accordance with MassDOT Standard Specifications, Division I, Subsection 8.02) that contains durations or sequencing that vary from those provided in the Project Utility Coordination (PUC) Form, the Contactor must submit this as an intended change, in the form of a Proposal Schedule and in accordance with MassDOT Standard Specifications, Division I, Subsection 8.02. These proposed changes are subject to the approval of the Engineer and the impacted utilities, in the form of this Proposal Schedule and a proposed revision to the PUC form. The Contractor shall not proceed with any changes of this type without written authorization from the Engineer, that references the approved Proposal Schedule and PUC form changes. The submission of the Baseline Schedule should not include any of these types of proposed utility changes and should not delay the submission of the Baseline Schedule. As a prerequisite to the Proposal Schedule submission, and in advance of the utility notification(s) period, the Contractor shall coordinate the proposed utility changes with the Engineer and the utility companies, to develop a mutually agreed upon schedule, prior to the start of construction.

D. UTILITY DELAYS
The Contractor shall notify the Engineer upon becoming aware that a Utility owner is not advancing the work in accordance with the approved utility schedule. Such notice shall be provided to the Engineer no later than seven (7) calendar days after the occurrence of the event that the Contractor believes to be a utility delay. After such notice, the Engineer and the Contractor shall continue to diligently seek the Utility Owner's cooperation in performing their scope of Work.

In order to demonstrate that a critical path delay has been caused by a third-party Utility, the Contractor must demonstrate, through the requirements of the monthly Progress Schedule submissions and the supporting contract records associated with Subsection 8.02, 8.10 and 8.14, that the delays were beyond the control of the Contractor.

SUBSECTION 8.14 (Continued)

All documentation provided in this section is subject to the review and verification of the Engineer and, if required, the Utility Owner. In accordance with MassDOT Specifications, Division I, Subsection 8.10, a Time Extension will be granted for a delay caused by a Utility, only if the actual duration of the utility work is in excess of that shown on the Project Utility Coordination Form, and only if;

1) proper Notification of Delay was provided to MassDOT in accordance with the time requirements that are specified in this Section
2) the utility delay is a critical path impact to the Baseline Schedule (or most recently approved Progress Schedule)

E. LOCATION OF UTILITIES

The locations of existing utilities are shown on the Contract drawings as an approximation only. The Contractor shall perform a pre-construction utility survey, including any required test pits, to determine the location of all known utilities no later than thirty (30) calendar days before commencing physical site work in the affected area.

F. POST UTILITY SURVEY – NOTIFICATION

Following completion of a utility survey of existing locations, the Contractor will be responsible to notify the Engineer of any known conflicts associated with the actual location of utilities prior to the start of the work. The Engineer and the Contractor will coordinate with any utility whose assets are to be affected by the Work of this Contract. A partial list of utility contact information is provided in the Project Utility Coordination Form.

G. MEETINGS AND COOPERATION WITH UTILITY OWNERS

The Contractor shall notify the Engineer in advance of any meeting they initiate with a Utility Owner's representative to allow MassDOT to participate in the meeting if needed.

Prior to the Pre-Construction Meeting, the Contractor should meet with all Utility Owners who will be required to perform utility relocations within the first 6 months of the project, to update the affected utilities of the Project Utility Coordination Form and all other applicable Contract requirements that impact the Utilities. The Contractor shall copy the Engineer on any correspondence between the Utility Owner and the Contractor.

H. FORCE ACCOUNT / UTILITY MONITORING REQUIREMENTS

The Engineer will be responsible for recording daily Utility work force reports. The start, suspension, re-start, and completion dates of each of the Utilities, within each phase of the utility relocation work, will be monitored and agreed to by the Engineer and the Contractor as the work progresses.

I. ACCESS AND INSPECTION

The Contractor shall be responsible for allowing Utility owners access to their own utilities to perform the relocations and/or inspections. The Contractor shall schedule their work accordingly so as not to delay or prevent each utility from maintaining their relocation schedule.

COMPLIANCE WITH THE NATIONAL DEFENSE AUTHORIZATION ACT

(Supplementing Subsection 7.01)

On all projects, the "Prohibition on Certain Telecommunications and Video Surveillance Services or Equipment" Regulation (2 CFR 200.216) prohibits the Contractor from using or furnishing the following telecommunications equipment or services:

- Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).
- For the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities).
- Telecommunications or video surveillance services provided by such entities or using such equipment.
- Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of the National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

This prohibition applies to all products manufactured by the aforementioned companies, including any individual components or parts.

By submitting a bid on a project, the Contractor certifies that all work will be in compliance with the terms of 2 CFR 200.216. The Contractor shall submit a COC indicating compliance with the above provisions for all telecommunications equipment or services included in the Contract.

Payment for the item in which the materials are incorporated may be withheld until these COCs are received. Any cost involved in furnishing the certificate(s) shall be borne by the Contractor.

PROPRIETARY PRODUCTS

A letter discussing the HILTI HIT RE-500V3 EPOXY ANCHOR as a proprietary specification pursuant to M.G.L. c. 30, sec. 39M(b) has been placed in the Project file. The HILTI HIT RE-500V3 EPOXY ANCHOR shall be manufactured by HILTI CORPORATION or approved equal.

SOIL STOCKPILING DIRECTIVE P-22-001

Any stockpiling of soil must be performed in compliance with Policy Directive P-22-001, Off-Site Stockpiling of Soil from MassDOT Construction Projects. This directive limits the allowable locations for off-site stockpiling of soil generated during MassDOT projects and includes various requirements that must be satisfied by the contractor prior to off-site stockpiling. The Contractor is responsible for identifying a suitable stockpile location.

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 many of the sites are in environmentally sensitive areas. 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.

CONTAMINATED SOIL

Soil to be removed from the project area shall not be assumed to be uncontaminated and must be evaluated prior to off-site management for potential contamination with hazardous materials. No soil may be disposed of off-site without proper assessment by the contractor and approval from the Resident Engineer (RE), District Environmental Engineer (DEE), or the project designee.

ENVIRONMENTAL PERMITTING

Negative Determinations have been obtained from the Ashfield Conservation Commission under the Wetlands Protection Act for locations A-13-014, A-13-020, and A-13-026. The proposed work does not occur in jurisdictional wetland resources subject to section 401 or section 404 of the Clean Water Act; therefore, the project does not require a Water Quality Certification from the Massachusetts Department of Environmental Protection or authorization from the US Army Corps of Engineers. The proposed work qualifies for the bridge exemption authorized in the Transportation Bond Bill and is otherwise not subject to the Massachusetts Wetlands Protection Act, the Massachusetts Public Waterfront Act (Chapter 91), or the Massachusetts Environmental Policy Act.

If field conditions and/or Contractor-proposed erection, demolition, staging, or other procedures require work to occur in or otherwise impact water or wetland resource areas, the Contractor is advised that no associated work can occur until all required environmental permits have been obtained allowing such work. The Contractor must notify the District Highway Director and Resident Engineer in writing at least 60 days prior to desire commencement of the proposed activity. All environmental submittals, including any Contract with Local, State, or Federal environmental agencies, must be coordinated with the District Environmental Engineer. The Contractor is expected to fully cooperate with requests for information and provide same in a timely manner. The Contractor is further advised that the Department will not entertain a delay claim due to the time required to obtain the environmental permits.

TRUCK SAFETY DEVICES

(Supplementing Subsection 7.04: Motor Vehicles)

All motor vehicles subject to Section 7 of Chapter 90 to be operated under this Contract shall be equipped with safety devices as provided therein and in 540 CMR 4.00.

The Contractor shall certify to the Registry of Motor Vehicles, in a manner prescribed by the Registrar, that all applicable vehicles are equipped with Lateral Protective Devices, Convex Mirrors, Cross Over Mirror(s) and Back Up Cameras in accordance with the requirements of 540 CMR 4.00.

The Contractor shall provide evidence satisfactory to the Department to demonstrate compliance with the above certification requirement for all applicable vehicles operated under this Contract by the Contractor and its subcontractors and vendors in a manner set forth by the Department. Thereafter, the Contractor shall have an affirmative obligation to continue to provide such evidence of compliance on an ongoing basis and no later than 7 days after certification with the Registry of Motor Vehicles of any additional vehicles operated under this Contract by the Contractor and its subcontractors and vendors.

Non-compliance with respect to a vehicle that is subject to 540 CMR 4.00 may subject the Contractor to statutory fines as established in M.G.L. c. 90, § 7 and/or contractual remedies up to and including termination of the Contract.

PREPARATION OF CONCRETE SURFACES

All concrete surfaces to be patched shall be roughened, cleaned of all laitance, dirt, grease, oil, other contaminants, and all standing water. All reinforcing steel encountered in the excavation shall be thoroughly cleaned by abrasive blasting before being covered with new concrete.

With approval of the Engineer, the Contractor may choose one of the following surface preparation methods. In bonding new concrete to already set concrete the surface of the concrete shall be thoroughly cleaned and roughened then:

A) Wetted with clean water and then flushed with a mortar composed of equal parts of the cement and sand specified for the new concrete, before new concrete is placed adjacent thereto. New concrete shall be placed before mortar has taken initial set.

B) Wetted with clean water, and then an epoxy adhesive suitable for bonding fresh concrete to hardened concrete for load bearing applications may be used. The epoxy adhesive shall conform to AASHTO M 235M/M 235 Type V and shall be applied in accordance with the manufacturer’s recommendations.

C) Ponded with clean water to achieve Saturated Surface Dry (SSD) condition then it shall be blown off with oil free compressed air.

GENERAL REQUIREMENTS FOR DEMOLITION AND WORK INVOLVING PAINTED STEEL

(02/06/2020)

Demolition and work involving painted steel shall conform to the requirements of Subsection 961 of the Standard Specifications.

Work Involving Painted Steel

Hazardous materials shall be removed in the immediate area of any intended welding, heating, saw cutting or burning of steel. Hazardous material removal is required to allow the demolition of structural steel, railings, drainage systems, utility supports, steel lamp posts, etc.

The contractor shall assume that the coatings on the steel contain lead (Pb), unless otherwise determined by testing. The contractor shall certify in writing to the Engineer the results of all testing, and shall also certify that any lead (Pb) coated steel removed from the project was not reused or buried, but was sent to a scrap metal recycling facility.

Implement and maintain programs and procedures, which comply with the requirements of this specification and all applicable standards and regulations. Comply with all applicable regulations even if the regulation is not specifically referenced herein. If a state or local regulation is more restrictive than the regulation of this specification, follow the more restrictive requirements.

This requirement is intended only for the demolition and preparation prior to repair and does not include provisions for recoating of steel.

Environmental

All applicable portions of Subsections 961.65 “Worker Protection” and 961.66 “Environmental Protection and Monitoring” shall be followed when performing this work.

During chemical stripping a hand washing facility may be used in lieu of a decontamination/changing facility.

Hazardous material shall be collected during the disassembly and disposed of as outlined in Subsection 961.68 “Handling of Hazardous Waste and Reporting Release Programs”.

The applicable submittals shall be according to Subsection 961.69 “Submittals”.

Cleaning/Removal

Cutting Or Burning Of Steel

All surfaces to be welded, heated, saw cut or burned shall be cleaned so as to remove all contaminants and/or hazardous materials, which could be discharged to the environment as a function of the subsequent operations.

GENERAL REQUIREMENTS FOR DEMOLITION AND WORK INVOLVING PAINTED STEEL (Continued)

Lead paint shall be removed in its entirety in an area prescribed by a 6 inch (15 cm) minimum offset from the required work. The paint removal operation may be dry abrasive blasting, wet abrasive blasting or chemical stripping.

Proper level of containment shall be used when performing this work in accordance with Subsection 961.67 "Containment". Full containment is not required during chemical stripping operation however; the Contractor shall install proper shielding and/or tarpaulins under the chemical stripping operations in order to catch all debris generated during this procedure. A cleaned area must be inspected and approved before the demolition operations are started.

During cleaning operations the Contractor shall be required to furnish and erect temporary floodlights illuminating the steel surface at a minimum of 30-foot candles. This lighting shall be used in areas where there is insufficient lighting for proper cleaning operations and inspection. The Contractor shall supply electrical power.

The Contractor shall provide support for interim and final inspection of the bridge during cleaning operations. This support shall include the necessary traffic controls and safe access to the work.

Mechanical Disassembly Of Steel

All surfaces to be mechanically disassembled by shear cutting or removing bolts or rivets shall not require deleading. When shear cutting or removing bolts or rivets, the Contractor shall not use any method that will cause dust and/or particles to be emitted and/or dispersed into the environment to an extent that would expose the workers above the Action Levels of 30µg/m3.

For purposes of limiting the lead (Pb) dust, the Contractor will be required to dampen the lead paint work areas.

The contractor shall install a proper shielding and/or tarpaulins under all lead-paint-coated surfaces to be shear cut or bolts or rivets ordered removed in order to catch any loose lead paint chips, dust or particles.

PIGEON WASTE

The Contractor shall remove and dispose of the pigeon waste and any other debris accumulated on the steel members and bridge seats in areas where work is being performed. Pigeon waste and debris material contaminates will require special handling and disposal in accordance with all Federal, state, and local requirements. No separate payment will be made for removal and disposal of pigeon waste. Cost shall be incidental to the contract pay items.

NORTHERN LONG-EARED BAT AND TRICOLORED BAT PROTECTION

The northern long-eared bat (*Myotis septentrionalis*; NLEB) and tricolored bat (*Perimyotis subflavus*; TCB) are listed as federally endangered or proposed endangered, respectfully, under the Endangered Species Act (ESA). The U.S. Fish and Wildlife Service (USFWS) developed this guidance to address ESA compliance and promote conservation of NLEB and TCB. As there is no Federal nexus (Federal funding or permits) for this project, Section 7 consultation was not required or conducted. However, Section 9 of the ESA prohibits anyone from "taking" or harming an endangered species, and the below language shall be adhered to in order to maintain compliance with the ESA.

If any of the project locations require work within U.S. Army Corps of Engineers (ACOE) jurisdictional wetlands, the ACOE will be the lead federal agency for ESA consultation with the U.S. Fish & Wildlife Service (USFWS). Most consultations for the NLEB take 30 days.

The following Avoidance and Minimization Measures (AMMs) must be strictly adhered to in order to protect NLEB and TCB and to be in compliance with the ESA. Contact MassDOT Environmental Services - Wildlife & Endangered Species Unit Supervisor (David Paulson, david.j.paulson@dot.state.ma.us, 857-262-3378) for questions about project limits, restrictions, or conservation measures.

The Resident Engineer can check on the status of AMM applicability by sending a locus map of the proposed work to MassDOT Highway Division's Environmental Services Section - Wildlife & Endangered Species Unit Supervisor for review and a determination if some of the AMMs and TOY restriction can be waived.

Required AMM for all projects:

- The Contractor shall ensure all personnel working in on the project site are aware of all environmental commitments related to NLEB and TCB, including all applicable AMMs. NLEB Bat information (https://www.fws.gov/midwest/endangered/mammals/nleb/ and https://www.fws.gov/species/tricolored-bat-perimyotis-subflavus) shall be made available to all personnel.

If temporary lighting is proposed within the project scope, the following AMM is applicable:
Lighting AMM:

- Direct temporary lighting away from suitable habitat during the active season: **April 15 to October 31.**

If the Removal of Trees and/or Woody Vegetation >3-inch in diameter is proposed within the project scope, the following AMMs are applicable:
Tree AMMs:

- If additional cutting is proposed by the Contractor that is outside the scope of this contract, additional review is required by the MassDOT Highway Division's Environmental Services Section, and additional review and restrictions may be required by the USFWS.
- Ensure tree removal is limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits).

NORTHERN LONG-EARED BAT AND TRICOLORED BAT PROTECTION (Continued)

- In order to protect northern long-eared bats and their young during their active season, **no tree cutting shall be conducted during the Time of Year (TOY) restriction of April 15 to October 31**.
- Do not remove **documented** or NLEB roosts that are still suitable for roosting, or trees within 0.25 miles of roosts, or **documented** foraging habitat any time of year (http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/species-information-and-conservation/rare-mammals/northern-long-eared-bat.html).
- The Contractor shall ensure all personnel working in on the project site are aware of all environmental commitments related to NLEB and TCB, including the **TOY** restriction.

If the Bridge Work is proposed within the project scope, the following AMMs are applicable:
Bridge AMMs:

- **Bridge AMM 1** - To completely avoid direct effects to roosting bats, perform any bridge removal, replacement, and/or maintenance work during the winter hibernation period unless a hibernating colony of bats is present (contact your local USFWS Field Office for exact dates). Also, follow Bridge AMM 4.

    a. **Note**: Bridge AMM 1 is an avoidance measure for direct effects; the full implementation of which may not always be practicable. **If bridge removal, replacement, and/or maintenance work must be performed outside of the winter hibernation period, then follow Bridge AMMs 2-4.**

- **Bridge AMM 2 - Colony or Assuming Presence of Bats**

    a. If assuming presence of bats or if bridge assessment or P/A surveys suggest presence of a colony of bats, and work is conducted during the active season, ensure activity will not disturb bats. The following types of bridge work can generally be conducted with the presence of bats:
        i. above deck work where construction equipment or materials do not extend to the underside of deck where bats may be located (e.g., materials that may drip down to underside of deck), or does not include percussives (vibration) or noise levels above general traffic (e.g., road line painting, wing-wall work).
        ii. below deck work that is conducted away from roosting bats and does not involve percussives or noise level above general traffic (e.g., wing-wall work, some abutment, beam end, scour, or pier repair).

- **Bridge AMM 3 - Small Number of Bats**
    a. If bridge assessment or P/A surveys suggest presence of a small number of bats (<5 – not a colony), and work is conducted during the active season, the following types of bridge work can generally be conducted with the presence of bats:
        i. above deck work where construction equipment or materials do not extend to the underside of deck where bats may be located (e.g., materials that may drip down to underside of deck), or does not include percussives (vibration) or noise levels above general traffic (e.g., road line painting, wing-wall work).

NORTHERN LONG-EARED BAT AND TRICOLORED BAT PROTECTION (Continued)

ii. below deck work that is conducted away from roosting bats and does not involve percussives or noise level above general traffic (e.g., wing-wall work, some abutment, beam end, scour, or pier repair).

iii. any other bridge removal, replacement, and/or maintenance work (which may include activities with percussives) conducted in the evening while the bats are feeding, starting one hour after sunset, and ending one hour before daylight excluding the hours between 10 p.m. and midnight and keep the light localized.

- **Bridge AMM 4** - If assuming presence of bats, or if bridge assessment or P/A surveys suggest presence of bats, ensure suitable roosting habitat is maintained. Suitable roosting sites may be incorporated into the design of a new bridge.

NOTICE TO OWNERS OF UTILITIES

District 1 Utility/Constructability Engineer
Mark Page (857) 368-1033
Mark.Page@dot.state.ma.us

The existing bridge plans indicate the location of the existing known utilities in the vicinity of the work. No survey was performed for this contract and as such, the accuracy and completeness of the plans are not guaranteed in any manner, it is the Contractor's responsibility to make an own investigation in order to assure that no damage to existing structures, drainage lines, traffic signal conduits, and other structures or work will occur.

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

Before the Contractor begins any work or operations that may cause damage to any subsurface structures, he/she shall carefully locate all such structures and conduct his operations so as to avoid any damage to them.

A list of public and private utilities can be found on the MassDOT website. The following website lists the names and addresses of the utilities that may be affected, but the completeness of the list is not guaranteed:
https://www.mass.gov/info-details/utility-contacts-by-district-and-municipality

Select District 1

Select the City/Town, and then locate the utility

The utility contact list is for guidance only and is not guaranteed to be complete or up to date.

NOTIFICATION OF PUBLIC OFFICIALS

Town officials are shown at website https://www.mass.gov/lists/massachusetts-cities-and-towns and select the required City/Town website.

State Police are shown at website https://www.mass.gov/info-details/massachusetts-state-police-troop-boundaries. Select the area of jurisdiction to find the local station.

The Contractor shall be responsible for informing the following officials in each area that he is assigned to work in:

Superintendent, Department of Public Works, or Town Engineer. Superintendent, Water Department, Superintendent, Sewer Departments. Police Department, Fire Department, Electric Company, Railroads.

NATIONAL GRID EMERGENCY TELEPHONE NUMBERS

GAS:
Emergency: 1-800-233-5325
New Service: 1- 877-696-4743
Customer Support: 1-800-732-3400

ELECTRIC:
Outage/ Emergency: 1-800-465-1212
New Service: 1-800-375-7405
Customer Support: 1-800-322-3223

EVERSOURCE EMERGENCY TELEPHONE NUMBERS

GAS:
Outage/ Emergency: 800-592-2000
New Service: 866-678-2744
Customer Support: 800-592-2000

ELECTRIC:
Outage/ Emergency: 800-592-2000 or 844-726-7562
New Service: 1-888-633-3797 (1-888-need pwr)
Customer Support: 1-800-340-9822

BERKSHIRE GAS EMERGENCY TELEPHONE NUMBERS

GAS:
Outage/Emergency: 1-800-292-5012 or 413-499-1680
New Service: 1- 800-297-7144
Customer Support: 1-800-292-5012

TOWN HIGHWAY DEPARTMENT

Bryan Clark
Town of Ashfield Highway Superintendent
896 Cape Street
Ashfield, MA 01330
413-339-5588

Ron Sweet
Town of Conway Highway Superintendent
26 Fournier Road
Conway, MA 01341
413-369-4696

Scott Sullivan
Town of Charlemont Highway Super.
157 Main Street
Charlemont, MA 01339
413-339-5707 *51

Gary Mitchell
Town of Hawley Highway Superintendent
8 Pudding Hollow Road
Hawley, MA
413-339-5509

NON-BID ITEMS

For work not covered by the various bid items in this Contract, it is the intent to pay for such related work on a time and materials basis, as directed by the Engineer. The payment for such work is outlined in the following sections: Payment for Specialty Services/Additional Artisans.

PAYMENT FOR SPECIALTY SERVICES/ ADDITIONAL ARTISANS

The Contractor will be paid for any artisans required to repair or maintain the bridges or any work that has not been included as incidental to any Contract Bid Item plus ten (10) percent. However, no artisans shall be hired until approved by the Engineer and competitive prices may be required if the Engineer so directs. The Contractor will not bid this item. If the Engineer has knowledge of source of additional artisans, which are competitive with the Contractor's choice, then the Contractor may be required to investigate and use an alternative choice.

COST ESTIMATES

Where the scope of a repair task can be adequately determined and described, the Contractor, when directed by the Engineer, shall be required to submit a Cost Estimate for the repair task.

NON-BID ITEMS (Continued)

Each Cost Estimate, submitted in writing, shall include an itemized scope of work, a working schedule (including the number of working days and hours worked each day by each category of artisan), work procedures and a NOT-TO-EXCEED cost breakdown itemized by the following: the number and type of workers, the number and type of equipment, barges, materials, specialty contractors, engineering services, traffic controls and police, etc. The Cost Estimate submittal must also state if roadway closures and waterway and/or bridge closures will be required.

The Engineer will approve each Cost Estimate submittal in writing. A submittal does not guarantee the Contractor will be assigned the work. Payment will be based on actual hours worked at the contractual rates for various items as previously described up to the maximum task amount. Completion of the task is the sole responsibility of the Contractor once the not-to- exceed amount has been reached. Should unforeseen problems develop during the course of the task completion, the Contractor will submit to the Engineer a revised scope of work with a comparison to the original scope of work along with a breakdown of the additional costs for approval by the Engineer. Approval for any increases to the agreed upon not-to-exceed cost will be dependent upon the justification of the additional work.

If the Contractor performs work which is not provided for in this Contract, or which was not authorized in writing by the Engineer, said Contractor shall receive no compensation for such work.

The management of the project and generating Cost Estimates, including such items as the planning of repair details, hiring of subcontractors, meetings with affected parties, scheduling of required artisans, purchasing of the necessary materials and the arrangement of equipment rentals, etc., will be considered incidental to the work and, as such, no additional compensation will be provided.

RATES OF PAYMENT

Payment for Non-Bid Items will be made for time spent on the project doing actual work on the Department's bridges and shall NOT include travel time to and from the Contractor's place of business and it shall also not include time for investigative field trips to find out how much material, equipment, tools, etc., may be needed for the work.

All equipment, materials, engineering costs and artisans' compensation which are necessary to prosecute the work under the various contract bid items shall be incidental to those bid Items at no additional compensation.

This contract will only have non-bid for police and specialty services to cover asbestos.

Note: For work covered by bid items in this contract and those not covered, there may be situations where the Department has pertinent materials or equipment stockpiled. The Department reserves the right to utilize these materials or equipment as seen fit in the prosecution of the work.

NON-BID ITEMS (Continued)

The Contractor will be reimbursed for the total actual cost (plus a percentage markup as indicated) for materials, equipment rental, additional artisans and engineering services required for related work directed by the Engineer. Artisans will be compensated per the applicable category of work from the State Wage Rates document. The Contractor will not bid the materials, equipment rental, additional artisan, and engineering services Items.

Payment for Non-Bid Items will be based on bills submitted, covering all charges for labor, materials, and equipment according to the respective terms of the contract. Bills covering the total charges incurred in any given month are to be submitted by the fifteenth of the following month for processing.

The Contractor is encouraged to submit bills/invoices of all charges to the Engineer by the 15th of the following month. It shall be required that the Contractor furnish certified copies of any or all payrolls for the Contract, showing the name, address, and occupational classification of each employee on said works, the hours worked by, and the wages paid to such employee.

SUPPLEMENTAL REQUIREMENTS FOR NON-BID ITEMS
(Supplementing Subsection 3.04)

The Contractor will be paid for additional artisans, equipment rental, materials, engineering services and specialty services required to perform the work plus (10%) percent, plus actual increased bond premium.

The Contractor shall be required to furnish certified paid receipts for additional artisans, equipment rental, materials, engineering services and specialty services that are required to perform the work prior to payment by the Department. Increased bond premium for additional artisans, equipment rental, materials, engineering services and specialty services will be paid after a certified paid receipt is submitted showing payment of the increased bond.

ITEM 106.88 JACKING AND SHORING EACH

The work under this item consists of jacking and shoring existing beams/girders as required by the Drawings and Sketches (see **Document A00803**) or the Engineer. The work shall also include removal and resetting of jacking and shoring from installed locations to support other existing beams/girders as directed by the Engineer.

Shoring materials may be new or second hand. The Contractor shall submit a plan of the proposed work showing the details and indicating the materials to be used. The submittal shall include shoring design computations based on information given in the Drawings and Sketches (see **Document A00803**), the bridge configurations and the working stresses of the materials used, sequence of operations, and all details incidental thereto. Unless otherwise directed by the Engineer, the proposed jacking and shoring system shall be designed to apply force in increments to the existing beam/girder to relieve load from the existing substructure/bearing. The jack(s) shall have a locking mechanism preventing the beam/girder from lowering in the event of loss of hydraulic pressure. All components of the system shall have load capacity greater than the total load carried by the existing beam/girder during normal traffic operation, which includes but is not limited to, dead load, live load, and impact load.

The Contractor shall design, furnish, and install all jacking and shoring systems such that they are anchored to the front face of the abutment. Temporary supports shall not be located within or bear on the stream bed. In-water work is not permitted under the project permits; therefore, systems requiring placement within the channel will not be allowed, unless the contractor acquires the required environmental permits with no compensation from the owner, including for schedule delays.

Bridge Loads: The Contractor shall be responsible for calculating loads (live and impact loads, dead loads...etc.) necessary to design shoring paid under this Item. Soil bearing values shall be determined per section 2.5.2 of the AASHTO Guide Design Specifications for Bridge Temporary Works. All materials (except jacks) shall be designed by working stress design (ASD). Type of jacks used, and factor of safety shall be per industry standards.

Approval of this submission shall be obtained prior to the commencement of any work under this Item. The above plan and computations shall bear the seal and signature of a Professional Engineer of the appropriate discipline registered in Massachusetts.

Materials shall meet the following:

Wood Products:	M9.05.1
Fastenings:	M8.01.5
Bridge Related Structural Steel:	M8.05.0

The Contractor shall remove and retain ownership of all materials and items furnished for the jacking and shoring and are not part of the permanent structure unless other prior arrangements are made with the Engineer for MassDOT to purchase all or some of the shoring elements.

When in the opinion of the Engineer extensive repairs require temporarily supporting some of the beams/girders on one or both abutment(s), those beams/girders shall be jacked/shored all at once as one unit for the length of time required.

ITEM 106.88 (Continued)

All treated wood supplied by the Contractor shall meet the requirements of M9.05.1 for Wood Products, including the most recent versions of AWPA U1 and M4 which are incorporated by reference. No new wood shall be treated with inorganic arsenic (including chromated copper arsenate (CCA), ammoniacal copper arsenate (ACA), and ammoniacal copper zinc arsenate (ACZA)), creosote or pentachlorophenol in all project construction.

The required prosecution, safety, and completion of the work in an acceptable manner is the responsibility of the Contractor. In the event of any damage to the structure due to inadequate supports, or Contractor's operation, the Contractor shall repair or replace any such damaged components at no cost to the department. The support of the beams/girders shall remain in place until repair is completed to the satisfaction of the Engineer.

The work shall be performed as follows:

Erect supports under each beam/girder as directed by the Engineer. When possible, all supports shall be located on the beam seat in front of the bearing and aligned with the bearing centerline. In some cases, inadequate space or existing beam seat deterioration will prevent jacking in front of the bearing. At these locations, the Contractor shall install a steel bracket to the face of the abutment as shown in the Drawings and Sketches (see **Document A00803**). The Contractor shall clarify their intended method of jacking and shoring (i.e. in front of bearing or from a steel bracket) in the jacking and shoring submittal. Under no circumstances shall the jacking and shoring system be located within the waterway.

In the event of any damage to the structure by the Contractor's operations, the Contractor shall repair or replace any such damaged components at no cost to the department.

In the case that both concrete beam seat repairs and bearing reset are required at the same beam end, the Contractor shall perform the work such that all work is completed under one jacking and shoring effort. No extra payment shall be made to re-install a temporary support at a beam end location that has already been removed. The Contractor is responsible for phasing the proposed work appropriately.

The support of beams/girders shall remain in place until all the requirements of Item 127.12 Reinforced Concrete Substructure Excavation, Item 960.91 Bearing Adjustment, and Item 909.5 Rapid Hardening Cementitious Products for Concrete Repairs are completed and accepted by the Engineer.

METHOD OF MEASUREMENT

Item 106.88 will be measured for payment by the Each steel beam/girder end jacked and shored temporarily and jacking and shoring removed as required by the Engineer, complete in place. Multiple jacking of the same end for the same repair will not be measured separately.

ITEM 106.88 (Continued)

BASIS OF PAYMENT

Item 106.88 will be paid for at the Contract unit price by the Each, which price shall include all labor, materials, tools, equipment, engineering services and all other incidentals required to complete the work.

Contractor will only be compensated once per jacking and shoring location and shall sequence the work accordingly.

The Contractor shall schedule operations such that any beam requiring temporary support or jacking shall be performed efficiently and will be paid once per location. This will require concurrent substructure and superstructure repairs. No extra payment shall be made to re-install jacking and shoring at a beam end location that has already been removed.

Any jacking and shoring reused at the same bridge crossing shall be considered a remove and reset. Jacking and shoring removed and reset is not anticipated for this project, and no additional compensation will be made in the case where it is required. Jacking and shoring transported to a new location will be considered a new payment of the jacking and shoring Item.

ITEM 107.855 PRESSURE INJECTION OF CRACKS FOOT

The work under this Item shall conform to the relevant provisions of Section 901 of the Standard Specifications and the following:

The work under this Item involves the repair of cracks, as may be required, in the existing concrete substructure at locations designated by the Engineer.

The Engineer shall verify in the field which cracks shall be repaired by the pressure injection. The Contractor shall provide the Engineer clear access in order to facilitate the inspection. Generally, anticipated locations for this type of repair include various locations throughout concrete abutments and concrete backwalls. Cracks designated for repair by pressure injection shall be bonded by penetration with an epoxy adhesive in accordance with the epoxy manufacturer's recommendations and the following:

The Contractor shall submit for review and approval, all the manufacturer's literature completely describing products. The materials shall be delivered clearly marked with legible and intact labels containing the manufacturer's name, brand name and identification of the contents of containers. The materials shall be stored in areas where temperatures conform to manufacturer's recommendations and instructions.

The Contractor shall comply with the manufacturer's instructions and recommendations regarding safety, mixing, surface preparation, application, etc. The epoxy adhesive shall be pumped into the cracks through injection ports. The surrounding work, vehicles, planting materials and items of similar nature, shall be protected from damage by epoxy injection materials and operations.

Work under this item shall not be performed when the ambient or concrete temperature is expected to fall below 50° F during the work or for 24 hours following the completion of the work.

MATERIALS

The pressure injection of crack products and manufacturers shall be listed on the MassDOT Qualified Construction Materials List for the pressure injection of cracks application.

EQUIPMENT FOR METERING, MIXING, AND INJECTING

A. Type: The equipment used to meter and mix the two injection adhesive components and inject the mixed adhesive into the crack shall be portable, positive displacement type pumps with interlock to provide positive ratio control of exact proportions of the two components at the nozzle. The pumps shall be electric or air powered and shall provide in-line mixing and metering system, and shall contain drain-back plugs.

B. Discharge Pressure: The injection equipment shall have the capability of discharging the mixed adhesive at pressures up to 200 psi and maintaining that pressure.

ITEM 107.855 (Continued)

C. Ratio Tolerance: The equipment shall have the capability of maintaining the mix ratio for the injection adhesive prescribed by the manufacturer of the adhesive within a tolerance of plus or minus five percent by volume at any discharge pressure up to 200 psi.

D. The Contractor shall verify that cracks and adjacent surfaces are dry or damp, and free of standing water, dirt, dust, paint, grease, oil, rust, efflorescence, or other foreign matter which would interfere with adhesion of epoxy materials, or would otherwise be detrimental to the application of epoxy injection surface seal system.

APPLICATION

A. Application of Surface Seal
   1. Seal cracks to be injected with surface sealer material in such a manner that minimal defacing or discoloration of concrete surfaces shall result.
   2. Provide entry ports in surface seals spaced at intervals not less than the concrete thickness at that location, but provide additional entry ports spaced as required to accomplish travel of injected material between ports and fill cracks completely with epoxy.

B. Epoxy Injection
   1. Inject epoxy under constant pressure in accordance with procedures as recommended by manufacturer or as required to obtain 100 percent penetration of cracks without inclusion of air pockets or voids in epoxy and as required to achieve structural bonding.
   2. Begin injection of epoxy at lower entry port and continue until there is an appearance of epoxy at entry port directly adjacent to or above entry port being pumped, thus indicating epoxy travel.
   3. When epoxy travel is indicated, discontinue injection on entry port being pumped, seal it, and transfer epoxy injection to next adjacent port. The ports shall be sealed by filling the void with epoxy and covering with tape or surface sealant, after removing the fitting.
   4. Perform epoxy injection continuously until cracks are completely filled.
   5. Finishing Requirements:
      (a) When cracks are completely filled, cure epoxy for sufficient time to allow removal of surface seal without any draining or runback of epoxy material from cracks.
      (b) Remove surface seals and clean concrete surfaces as required to produce a workmanlike finish.
   6. Filling of Field Control Testing Core Holes. This procedure consists of using two-component bonding agent applied to surfaces of cored holes followed by application of grout mix placed by hand trowel, thoroughly rodded and tamped in place, and finished to match finish and texture of existing concrete to the satisfaction of the Engineer. Submit materials and procedures required to the Engineer for acceptance before proceeding with the work.

ITEM 107.855 (Continued)

FIELD QUALITY CONTROL

The Contractor shall provide at least one 4 inch diameter core at a location designated by the Engineer. The Engineer shall reserve the right to order two additional cores at locations he/she designates. The cores shall penetrate the full crack depth of the area being restored. The cores shall be submitted to the Engineer for testing. The tests shall be considered acceptable if, upon visual examination, the injection has achieved 90 percent penetration of the crack, and the bond strength has conformed to the following:

Concrete failure before adhesive failure, or 6500 psi with no failure of either concrete or adhesive.

If a test fails, an evaluation of the methods and materials used must be made before the area represented by the failed test is reinjected and retested. The Contractor will not be permitted to continue injecting cracks until the cause of the failure is determined and the Engineer is satisfied that corrective measures have been taken to prevent additional failures. The Contractor shall make such additional cores as necessary until the work is considered acceptable.

The Contractor shall furnish notarized certification that all materials conform to the above requirements.

The Contractor shall furnish to the Engineer samples of materials proposed for use at least six weeks prior to scheduled use. The Contractor shall arrange with the materials manufacturer or distributor to have the services of a competent field representative at the work site prior to any mixing of components to instruct the work crews in the proper mixing and application procedures. The field representative shall remain at the job site after work commences and continue to instruct until the Engineer is satisfied that the crew has mastered the technique of installing the system successfully. The representative shall make periodic visits to the project as the work progresses and shall confer on each visit with the Contractor and the Engineer. The manufacturer's field representative must be fully qualified to perform the work and shall be subject to the approval of the Engineer.

METHOD OF MEASUREMENT

Item 107.855 will be measured for payment by the Foot of crack repairs, complete in place.

BASIS OF PAYMENT

Item 107.855 will be paid at the Contract unit price per Foot, which price shall include all labor, materials, equipment, and all other incidentals required to complete the work.

The Contractor shall be completely responsible for the expense of the services of the required field representative.

ITEM 107.97 STRUCTURAL STEEL REPAIRS POUND

The work under this Item shall conform to the relevant provisions of Subsections 960 and 961 of the Standard Specifications and the following:

The work under this Item shall include repair of steel beam ends and midspan flange repairs with section loss as directed by the Engineer. Additional steel repairs may be required following completion of the cleaning and priming of the steel. An inspection shall be performed by the Engineer following cleaning and priming of the steel and all limits confirmed at the time of inspection. The final limits for each of the repairs and additional in-kind replacement will be provided by the Engineer, after cleaning and priming of the steel. Live loads and construction loads shall be removed from the bridge during installation of the flange repair plates.

The Contractor shall note that certain repair locations are known to have obstacles that are in conflict with the work that is to be performed. Work required to move, remove, replace, work around, or modify any obstacles interfering with the structural steel repair work, such as diaphragms, connection plates, and cross frames shall be included in this Item and be performed with no additional compensation, and shall be deemed incidental to the unit price bid for this Item.

The Contractor shall retain existing diaphragms and cross frames and incorporate new connection plates as required unless otherwise specified on the Drawings and Sketches (see **Document A00803**). Diaphragms that are called out to be replaced shall be as specified on the Drawings and Sketches (see **Document A00803**) or by the Engineer. Diaphragms to be replaced-in-kind do not require cleaning and priming or inspection prior to removal.

Structural steel components damaged by the Contractor's operation shall be repaired in conformance with these specifications. The costs of such repairs shall be borne by the Contractor. Structural steel repairs will include repairing deteriorated beam ends, midspan flanges, and diaphragms at locations as directed by the Engineer; also, the in-kind replacement of deteriorated bracing when deemed required by the Engineer.

The Contractor shall be required to clean and prime repair areas prior to any structural steel repairs required by the Engineer, which will be considered incidental to this item. Repair areas shall be cleaned and painted two feet beyond repair limits.

After cleaning and priming of the steel, the proposed repair areas shall be made available to the District Bridge Section. The final limits of each repair and additional in-kind replacement are subject to the approval of the District Bridge Engineer.

The Contractor shall submit to the Engineer a plan of the proposed repairs, showing the methods of procedures, materials, and equipment they intend to use. The submittal shall include design computations based on all applicable loads (i.e. dead load, live load + impact, etc.), working stresses of the materials used, sequence of operations, and all details incidental thereto. All loads shall be calculated by the Contractor. Approval of this submission shall be obtained prior to the commencement of any work under this Item. The above plan and computations shall bear the seal and signature of a Professional Engineer of the appropriate discipline registered in Massachusetts.

ITEM 107.97 (Continued)

The design calculations should include an evaluation of the rating for the design vehicle at areas of section loss to inform the Engineer's decision as to whether the section loss warrants a repair.

All work shall be done per the Drawings and Sketches (see **Document A00803**) and as directed by and to the satisfaction of the Engineer and in accordance with the details and sequence of construction supplied by the Contractor and approved by the Engineer.

MATERIALS

All new structural steel and new high strength bolts shall conform to the requirements of Sections M8.05.0 and M8.04.3 of the Specifications, respectively.

All structural steel shall be AASHTO M270, Grade 36 or Grade 50 steel.

The repair steel shall be considered main member and conform to the Charpy V - notch impact test requirements for AASHTO Temperature Zone T2.

All high strength bolts for bolted connections shall be slip critical and conform to the requirements of ASTM F3125 and installed in accordance with the Standard Specifications. All proposed nuts shall conform to ASTM A563. Washers shall conform to AASHTO F436 specifications for hardened steel washers. All bolts, nuts and washers shall be mechanically galvanized in accordance with requirements of ASTM B695, Class 50. Galvanized bolts shall be retested after galvanizing as required by ASTM F3125.

Prior to installing steel repair components, an epoxy-based metal filler compound shall be applied to existing deteriorated steel web surfaces and flanges in a manner which restores deteriorated sections to their original thicknesses to prevent voids between the filler surface and proposed repair plates. Filler material shall be applied as shown in the Drawings and Sketches (see **Document A00803**) and as directed by the Engineer. Epoxy filler compound shall be "ITW Philadelphia Resin Repair Compound (RRC)" (web site: http://chockfast.com/products/repair-and-accessory-products/itw-repair-compound/), or Sikadur 31, Hi-Mod Gel (web site: http://usa.sika.com), or Adhesives Technology Ultrabond 2100, Class C (web site: http://atcepoxy.com/medium-viscosity-bonding-agent-ultrabond-2100/), or an approved equal. The filler compound shall be applied in strict accordance with the manufacturer's specifications.

The Contractor is alerted that the existing paint is likely lead-based. Any removal and disposal of paint for the operations described herein shall be performed in strict conformance with all State and Federal health and environmental regulations, as stipulated in these specifications.

CONSTRUCTION METHODS

The Contractor shall submit for review an engineering submittal for each repair location. The submittal shall include, but is not limited to, a repair procedure and drawings detailing the repairs. The engineering submittal shall bear the seal and signature of a Professional Engineer of the appropriate discipline registered in Massachusetts.

ITEM 107.97 (Continued)

The methods of procedures, materials, equipment, or anchorage proposed by the Contractor shall be submitted on a standard shop drawing for approval by the Engineer prior to beginning work for each location. Approval shall not relieve the Contractor of responsibility for the successful completion of the work.

All steel repair dimensions shall be field verified by the Contractor prior to developing shop drawings and fabrication of steel repair components. The limits of steel repairs shall be verified via non-destructive testing (PT, MT, UT) at locations as required by the Engineer. Testing shall be performed by a certified testing agency and shall meet the requirements of Subsection 960.61, Inspection paragraphs of the Standard Specifications. The cost associated with the non-destructive testing will be compensated under the Non-Bid Items provisions of this Contract. The Contractor shall submit shop drawings using field measurements. The Engineer will verify the proposed repair limits shown on the shop drawings. Fabrication of repair components shall not start prior to acceptance of shop drawings by the Engineer.

All work shall be done as directed by and to the satisfaction of the Engineer and in accordance with the details approved by the Engineer.

Gouges in the steel shall be ground smooth on a slope of 1:10. All grinding shall be in direction of stress (along the length of the beam). Gouges greater than 1/4 inch deep in edges of beams or plates shall be repaired by welding. Gouges greater than 1/16 inch on surfaces of the steel shall be repaired by welding. The filler metal shall extend 1/16 inch above the surface and shall then be ground smooth.

All steel superstructure members shall be cleaned to meet the requirements of SSPC SP-10, Near-White Blast Cleaning and receive a prime coat prior to beginning steel repairs, in accordance with Subsection 961, “Maintenance Painting of Steel Bridges”. The Engineer shall verify the deterioration extents prior to fabrication of repair components. Subsequent to successful steel repairs at each span and primer touch up of repair areas, the superstructure steel shall be painted with the intermediate and final coats. All costs of cleaning, prime coating, and painting shall be paid for under Items 961.301 and 961.202.

WELDING

All welding shall conform to the latest edition of the Bridge Welding Code AASHTO/AWS D1.5 and shall meet the following requirements unless specified otherwise:

All welding required to complete the repairs will be considered incidental to the repair and no separate compensation will be allowed. All welders shall be certified. Welders' qualifications certificates must be submitted to the Engineer for approval. Electroslag and electro gas welding will not be permitted. Welding will not be permitted when the air temperature is below 35° F or when the surfaces to be welded are wet from condensation, rain, snow, or ice. When the temperature is between 35° F and 45° F, the surface within 3” of the point where the weld is to be started shall be heated to a temperature of approximately 100° F, and this temperature shall be maintained as a minimum within this distance until the bead is completed.

ITEM 107.97 (Continued)

The Contractor shall submit for approval by the Engineer a welding procedure for each of the repair areas that will require welding.

INSPECTION AND NON-DESTRUCTIVE WELD TESTING

All welds are to be inspected and tested (non-destructively) in accordance with latest addition of AASHTO/AWS D1.5 and the applicable provisions of the Standard Specifications Subsection 960, and the specifications stipulated in these special provisions.

Inspection shall consist of checking the type, location, size, length, returns and profile of field welds and shop welds. Welds will be evaluated by their surface appearance, completeness for penetration and fusion, avoidance of undercutting, freedom from slag, inclusions, porosity, cracks and general appearance.

All welds that are found to be defective shall be corrected in accordance with the AWS procedures and to the satisfaction of the Engineer and shall then be re-inspected as outlined above. The expense of such corrective work shall be borne by the Contractor.

The Contractor shall be responsible for Quality Control Inspection and Non-Destructive Weld Testing of all shop welding and field welding of non-fracture-critical members in accordance with the requirements herein specified. These costs shall be considered incidental to the various steel repair pay items.

CUTTING OF STEEL

Existing steel components that are directed for replacement by the Engineer shall be carefully removed by dismantling existing connections. Cutting of existing steel shall be performed with care to avoid undercutting, overheating, notching or other damage of material which is to remain. The Contractor shall use temperature-indicating crayons which meet the approval of the Engineer for 275º F and 300º F. These indicator crayons shall be used on surfaces of the web and beam adjacent to an area undergoing a process of cutting or grinding as ordered by the Engineer.

Cutting or grinding shall be discontinued temporarily, to allow cooling, if the temperature of the base steel in the girder web or flange exceeds 275º F.

If the Contractor damages materials to remain during cutting operations, he shall replace, repair, or reinforce the damaged area as may be needed to restore the materials to existing condition prior to damage. This work shall be performed by the Contractor as ordered by the Engineer at no additional cost to MassDOT, and to the acceptance of the Engineer.

ENVIRONMENTAL

All applicable portions of Sections 961.65 "Worker Protection" and 961.66 "Environmental Protection and Monitoring" shall be followed when performing this work.

ITEM 107.97 (Continued)

During chemical stripping, a hand washing facility may be used in lieu of a decontamination/changing facility. Hazardous material shall be collected during the disassembly and disposed of as outlined in Section 961.68 "Handling of Hazardous Waste and Reporting Release Programs". Submittals shall be according to Section 961.69 "Submittals".

ADDITIONAL REQUIREMENTS

The edges of the existing steel to be repaired, as well as the faces that will meet the new steel, shall be ground smooth and primed prior to the installation of the new plates or shapes. Any Holes in steel shall be drilled, not punched or burned. Rust holes +/- 3" in diameters shall be drilled through prior to installation of repair plates. Isolated rust holes in the girder web panel shall be drilled through or coped to a consistent web thickness of 1/8". Edges of the holes or copes are to be ground smooth to the satisfaction of the Engineer. Filler plates cut to fit shall be installed in places of severe rust holes and drilled through prior to installation of repair plates. Filler plates are incidental to this Item with no additional compensation.

The Contractor is fully responsible for the accuracy and fit of the work and thus shall determine what measurements are required and shall allow adequate time and resources for obtaining field measurements in developing the fabrication and construction.

The Contractor shall submit shop drawings utilizing the field measurements of the replacement/repair areas to verify fit of bridge components and all other repair dimensions. Fabrication shall not start prior to acceptance of shop drawings.

The Contractor shall provide support for interim and final inspection of the bridge during cleaning operations. This support shall include the necessary traffic controls (if required) and safe access to the work.

Adequate measures shall be taken by the Contractor to prevent work generated debris, tools, and/or materials from entering adjacent roadway lanes or dropping to the ground or waterway below the structure. All debris and any materials which accidentally fall into such areas shall be removed immediately at the Contractor's expense. Any damage from falling debris shall be repaired by the Contractor to the satisfaction of the Engineer, at the Contractor's own expense.

Except as otherwise specified, all removed steel and appurtenances shall become the property of the Contractor who shall remove and dispose of this material.

The Contractor shall take the necessary precautions such as flaggers, warning signs and/or temporary protective structures for the safety of vehicles or pedestrians using any area adjacent to or under the work areas. Any such structure shall be adequate for the purpose and shall be approved by the Engineer.

ITEM 107.97 (Continued)

METHOD OF MEASUREMENT

Item 107.97 will be measured for payment by the actual net weight of new steel in Pounds, including nuts, bolt heads and permanent washers installed in the structure, complete in place.

BASIS OF PAYMENT

Item 107.97 will be paid for at the Contract unit price per Pound, which price shall include all materials, labor, submittal preparation, engineering services, equipment, scaffolding, welding, tools, field inspection, submittal preparation, utility support, diaphragm and cross frame support, localized cleaning and paint removal required to perform repair, lead-based paint removal and disposal, epoxy-based metal filler compound, and all other incidentals required to complete the work.

ITEM 127.1 REINFORCED CONCRETE EXCAVATION CUBIC YARD

ITEM 127.13 REINFORCED CONCRETE COPING EXCAVATION CUBIC YARD

ITEM 127.4 REINFORCED CONCRETE DECK EXCAVATION (FULL DEPTH) SQUARE YARD

The work under these Items shall conform to the relevant provisions of Subsection 120 and 482 of the Standard Specifications and the following:

Concrete surfaces will be inspected via visual and, where practicable, hammer sounding to determine limits of excavation. Costs associated for providing apparatus and personnel for sounding to determine limits of reinforced concrete excavation are incidental to these Items with no additional compensation. The Contractor shall provide personnel, as directed by the Engineer, to assist the Engineer with sounding. The Engineer will determine and mark the limits of reinforced concrete excavation at each of the locations.

The work under these items consists of the removal of reinforced concrete for work associated with curbs.

The work to be done under Item 127.13 involves the removal of reinforced concrete on the topside, fascia and underside (herein referred to as horizontal, vertical and overhead repairs respectively) of the bridge deck overhang (herein referred to as the coping). Excavation depth shall not exceed 50% of the existing concrete deck slab thickness for overhead repairs, and 6" for horizontal and vertical repairs on the coping.

The work under item 127.4 consists of full depth removal and disposal of reinforced concrete from the bridge deck at locations indicated on the Drawings and Sketches (see **Document A00803**) and around proposed scuppers and downspouts.

Prior to excavation, the Contractor shall cover all drainage structures and install silt sacks within catch basins that may be affected by the work. The structures shall remain covered until the new concrete has set and the area has been cleaned.

The Contractor shall take all precautions necessary not to damage that portion of the deck, including reinforcing steel, which is to remain. This includes determining the concrete cover to the steel bars at the edge of each patch prior to excavating concrete.

The edges of all areas where concrete is removed under these Items shall be cut to neat lines by saw cutting or by methods approved by the Engineer, to a depth of ¾ inch, and all costs in connection with such work shall be incidental to the pertinent Item. Patch areas shall be made rectangular in shape [as much as possible], with horizontal and vertical edges and square corners.

In case the reinforcing bars are exposed, the minimum depth of all cement concrete areas to be excavated shall be one (1) inch below the bottom of the top layer of longitudinal reinforcing steel throughout the entire excavated area. No concrete shall be placed until approval of the Engineer is given.

ITEMS 127.1, 127.13, and 127.4 (Continued)

The cost for the removal of hot mix asphalt and any membrane waterproofing above the area of reinforced concrete deck excavation shall be paid for under Item 415.4 Bridge Pavement Milling.

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

Pneumatic and Power-Driven Chipping Hammers: In no event shall any pneumatic or power hammer weighing in excess of twenty-five (25) pounds be used for the removal of concrete.

Abrasive Blasting Equipment: Abrasive blasting equipment shall be capable of removing rust and old concrete from exposed reinforcing steel when deemed necessary by the Engineer.

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 an oil free compressed air after first being wetted with water to control airborne particulates.

Also, included under these Items are all costs in connection with the cleaning, cutting, and bending of the existing reinforcing steel designated to be retained in the proposed construction. Any existing reinforcing steel damaged or otherwise made unsatisfactory for continued use as a result of the Contractor's operations shall be replaced at the Contractor's expense. All reinforcing steel with active rusting encountered in the excavation shall be thoroughly cleaned by abrasive blasting and coated with a zinc-rich primer conforming to MassDOT Spec. No. M7.04.11 or as directed by the Engineer. Any reinforcing steel that is unsuitable for further use through no fault of the Contractor shall be replaced under Item 910.1. Reinforcing steel shall be considered unsuitable if it exhibits section loss, corrosion, deformation, or other deterioration such that the bar cannot meet the required strength or bond or cannot be properly incorporated into the Work. Conditions indicating unsuitability include, but are not limited to, significant pitting, scaling, cracking, kinking, misalignment, or insufficient embedment. The determination of suitability shall be made by the Engineer. All reinforcing steel that is loose shall be tied tightly together using wire ties. Ties are required at every other intersection of transverse and longitudinal reinforcing.

The Contractor shall exercise caution when excavating near existing guardrail anchor bolts that are to remain. Any existing anchor bolts damaged or otherwise made unsatisfactory for continued use as a result of the Contractor's operations shall be replaced at the Contractor's expense.

Temporary Protective Shielding must be used on bridges over the waterway during excavation and when, in the opinion of the Engineer, there is the possibility of dislodging concrete from the bottom of the deck. All temporary shielding shall be installed prior to beginning any concrete excavation.

Before placing new concrete, the existing surface must be cleaned with oil-free compressed air. After the surface preparation has been accepted, every effort should be made to thoroughly wet the concrete surface and all porous surfaces to be in contact with new concrete for 24 hours. This may be accomplished by continuous wetting with soaker hoses or the use of burlap/burlene, etc., where moisture can be maintained.

ITEMS 127.1, 127.13, and 127.4 (Continued)

If, in the opinion of the Engineer, conditions or the situation prohibits this, then the surfaces should be wetted for as long as possible. Surfaces must be wetted by means acceptable to the Engineer using potable water. Preparation of concrete surfaces is to be paid for by the appropriate concrete item.

The Contractor shall remove any puddles of free-standing water with oil-free compressed air, and protect the surfaces from drying, so the existing concrete remains in a clean, saturated surface dry (SSD) condition until placement of the new concrete.

Immediately before placement of new concrete, the exposed area to be patched shall be free of foreign materials. These materials shall be removed by abrasive blasting and by use of oil free compressed air. No grease, dust, rust, or laitance will be allowed to remain on reinforcing steel and exposed concrete surfaces.

The Contractor shall take all measures necessary to protect the waterway from the construction operations. No debris, tools or incidental equipment of any kind will be permitted to fall into the waterway below. Any material that accidentally falls into the waterway shall be removed immediately.

All excavated materials shall become the property of the Contractor and shall be removed from the job site.

METHOD OF MEASUREMENT

Items 127.1 and 127.13 will be measured for payment respectively by the Cubic Yard of reinforced concrete excavated and properly disposed of. Item 127.4 will be measured for payment by the Square Yard of reinforced concrete excavated and properly disposed of.

BASIS OF PAYMENT

Items 127.1 and 127.13 will be paid for at the respective Contract unit price per Cubic Yard. Item 127.4 will be paid for at the respective Contract unit price per Square Yard. The Contract unit price shall include all labor, tools and equipment, including the incidental removal of any HMA pavement, waterproof membrane, sawcutting necessary to complete the deck work around the scuppers as required by the Engineer, and all incidentals required to complete the work. The quantity paid for these Items shall be the actual area or volume excavated to be removed and properly disposed according to all city, town, State and Federal rules, regulations, and requirements and as required by the Engineer.

The Contractor will be compensated under either Item 127.1, 127.13, and 127.4 for excavated concrete. In no case will the Contractor be compensated under more than one Item for the same excavated material.

Temporary protective shielding will be paid under Items 994.1 and 994.12.

New reinforcing steel will be paid under Item 910.1.

ITEM 127.12 REINFORCED CONCRETE SUBSTRUCTURE EXCAVATION CUBIC YARD

The Work under this Item shall conform to the relevant provisions of Subsection 120 and 482 of the Standard Specifications and the following:

The work under this Item consists of the removal and disposal of all deteriorated, spalled, and scaled concrete as required to repair the existing concrete substructure elements to the general lines identified on the Drawings and Sketches (see **Document A00803**) and as directed by the Engineer.

During the prosecution of the 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. Pneumatic hammers heavier than the nominal 25 pounds mass shall not be used unless approved by the Engineer.

Excavation shall extend to sound concrete. If reinforcing bars are exposed or become exposed during excavation, the excavation shall not be less than one inch (1") behind the inner most layer of reinforcing steel, or less than four inches (4") from the original surface. The Contractor shall stop excavating deteriorated concrete when the depth of excavation reaches six inches (6") and shall notify the Engineer immediately. The edges of the patch shall be cut to neat lines by saw cutting or by methods approved by the Engineer, and the patch areas shall be made rectangular in shape, if possible, with horizontal and vertical edges and avoid over cutting square corners.

The Contractor shall take all precautions necessary so as not to damage those portions of the bridge including reinforcing steel that are to remain. This includes determining the concrete cover to the steel bars at the edge of each patch prior to excavating concrete. Any steel that is unsuitable for further use through no fault of the Contractor shall be replaced under Item 910.1 Steel Reinforcement for Structures – Epoxy Coated. All reinforcing steel that his loose shall be tied tightly together using epoxy coated wire ties.

Also, included under this Item are all costs in connection with the cleaning, cutting, and bending of the existing reinforcing steel designated to be retained in the proposed repair. Immediately before preparation for placement of new concrete, the exposed reinforcing steel and concrete area to be patched shall be free of all oil, grease, rust, or other foreign materials. These materials shall be removed by abrasive blasting or other methods approved by the Engineer.

No debris, tools or incidental equipment of any kind will be permitted to fall into the waterway below. Any material that accidentally falls into such areas shall be removed immediately.

DISPOSAL OF EXCAVATED MATERIALS AND SITE CLEANING

Surplus materials obtained from reinforced concrete excavation and not needed for further use, as determined by the Engineer, shall become the property of the Contactor, and shall be properly disposed of by the Contractor outside the location at no additional compensation.

ITEM 127.12 (Continued)

The Contractor is required to broom clean all work site areas after the removal of excavated debris regardless of preexisting conditions. This includes areas under the excavated repair area. Removal of debris, site cleaning, and disposal of debris are incidental to the Contract, and no additional payment will be made.

METHOD OF MEASUREMENT

Item 127.12 will be measured for payment by the Cubic Yard of substructure concrete excavated, removed, and properly disposed of.

BASIS OF PAYMENT

Item 127.12 will be paid for at the Contract unit price per Cubic Yard, which price shall include all labor, tools, equipment, sawcutting, incidental costs required to complete the work, and final disposal of the excavated material to the satisfaction of the Engineer.

New reinforcing steel will be paid under Item 910.1.

ITEM 482.31 SAWING AND SEALING JOINTS IN ASPHALT PAVEMENT AT BRIDGES FOOT

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 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 saw cut 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.

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

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.

BASIS OF PAYMENT

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

ITEM 740. ENGINEER'S FIELD OFFICE AND EQUIPMENT (TYPE A) MONTH

The work under this Item shall conform to the relevant provisions of Subsection 740 of the Standard Specifications and the following:

Two computers and printer system meeting minimum requirements set forth below including installation, maintenance, power, paper, disks, and other supplies shall be provided at the Resident Engineer's Office:

All equipment shall be UL approved and Energy Star compliant.

THE COMPUTER SYSTEM SHALL MEET THE FOLLOWING MINIMUM CRITERIA OR BETTER:

Processor:	Intel, 3.5 GHz
System Memory (RAM):	12 GB
Hard Drive:	500 GB
Optical Drive:	DVD-RW/DVD+RW/CD-RW/CD+RW
Graphics Card:	8 GB
Network Adapter:	10/100 Mbit/s
USB Ports:	6 USB 3.0 ports
Keyboard:	Generic
Mouse:	Optical mouse with scroll, MS-Mouse compliant
Video/Audio	the computer system shall be capable of allow video calling and recording:
Video camera	shall be High Definition 1080p widescreen capable video calling and recording with built in microphone. The microphone system shall capture natural audio while filtering out background noise.
Audio	shall be stereo multimedia speaker system delivering premium sound.
OS:	Latest Windows Professional with all security updates
Web Browser:	Latest Internet Explorer with all security updates
Applications:	Latest MS Office Professional with all security updates Latest Adobe Acrobat Professional with all security updates Latest Autodesk AutoCAD LT Antivirus software with all current security updates maintained through the life of the contract.
Monitors:	Two 27" LED with Full HD resolution. Max. resolution 1920 x 1080
Flash drives:	2 (two) - 128GB USB 3.0
Internet access:	High Speed (min. 24 mbps) internet access with wireless router.

ITEM 740. (Continued)

THE MULTIFUNCTION PRINTER SYSTEM SHALL MEET THE FOLLOWING MINIMUM CRITERIA OR BETTER:

Color laser printer, fax, scanner, email and copier all in one with the following minimum capabilities:

- Estimated volume 8,000 pages per month
- LCD touch panel display
- 50 page reversing automatic document feeder (RADF)
- Reduction/enlargement capability
- Ability to copy and print 11" x 17" paper size
- email and network pc connectivity
- Microsoft and Apple compatibility
- ability to overwrite latent images on hard drive
- 600 x 600 dpi capability
- 30 pages per minute print speed (color),
- 4 Paper Trays Standard (not including the bypass tray)
- Automatic duplexing
- Finisher with staple functions
- Standard Ethernet. Print Controller
- Scan documents to PDF, PC and USB
- ability to print with authenticated access protection

The Contractor shall supply a maintenance contract for next day service, and all supplies (toner, staples, paper) necessary to meet estimated monthly usage.

The Engineer's Field Office and the equipment included herein including the computer system, and printer shall remain the property of the Contractor at the completion of the project. Disks, flash drives, and card readers with cards shall become the property of the Department.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Compensation for this work will be made at the contract unit price per month which price includes full compensation for all services and equipment, and incidentals necessary to provide equipment, maintenance, insurance as specified and as directed by the Engineer.

ITEM 859.1 REFLECTORIZED DRUMS WITH SEQUENTIAL FLASHING WARNING LIGHTS DAY

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

Work under this item consists of furnishing, installing, maintaining in 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:

1. Empco-Lite LWCSD.
2. pi-Lit® Sequential Barricade-Style Lamp; or
3. 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 905.001 **OVERHEAD REPAIR MORTAR FOR PATCHING** **SQUARE FOOT**

The work under this Item shall conform to the relevant provisions of Subsection 901 of the Standard Specifications, Drawings and Sketches (see **Document A00803**) and the following:

The work under this item shall consist of 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 concrete repairs to the underside of the bridge coping (herein referred to as overhead repairs) at locations shown on the Drawings and Sketches (see **Document A00803**) and as directed by the Engineer.

Under no circumstance shall this Item be used for horizontal or vertical applications on concrete substructure or coping repairs unless otherwise specified by the Engineer.

The Contractor shall remove all deteriorated or spalled concrete in the areas as shown on the Drawings and Sketches (see **Document A00803**) or as designated by the Engineer. Removal of all deteriorated and spalled concrete designated to be removed shall be compensated under Item 127.13.

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 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

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 in the forms. The repair mortar shall provide the following physical properties based on Independent Test Results performed within the last three (3) years.

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 7 Days Slant Shear Bond Strength at 28 Days	1750 PSI 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

ITEM 905.001 (Continued)

[1] No Bonding Agent
[2] Relative Dynamic Modulus

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.

CONSTRUCTION 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 appropriate 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 Standards. Hot weather protection shall be provided in accordance with Subsection 901.64 A of the Standards.

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. 03730 "Guide for Surface Preparation for the Repair of Deteriorated Concrete Resulting from Reinforcing Steel Corrosion"

The Contractor shall have the approval of the Engineer certifying that all spalled and deteriorated concrete has been removed prior to repairing the deteriorated areas; all reinforcing steel is satisfactorily cleaned.

ITEM 905.001 (Continued)

FORMING AND PLACEMENT OF REPAIR MORTAR

1. All formwork shall be rigid and tight to prevent loss of material. All forming shall be designed by a Professional Engineer that is registered in Massachusetts. All elements of the formwork and anchorages shall be designed for a pressure of 12 PSI. All submittals shall be reviewed and approved by the District Bridge Engineer.
2. The forms shall be watertight with perimeters lined with foam gasket material.
3. Form ports for pumping the mortar shall be placed no greater than 4 feet on center. Venting ports shall be placed no more than 2 feet on center.
4. The formwork shall include drainage outlets for presoaking of the substrate.
5. Form detailing shall allow for a minimum of 1-1/2" cover over all steel.
6. A suitable form release agent shall be used to facilitate the removal of forms from the cast material.
7. The forms shall be filled with clean water 24 hours prior to the mortar placement.
8. Immediately before placing, the water shall be drained and the drainage outlets sealed, leaving the substrate saturated surface dry (SSD) with no ponded water remaining.
9. 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.
10. 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.
11. Prior to pumping mortar, all hoses must be pre-wetted with clean water to ensure that initial flow properties are maintained.
12. The pumping distance must be kept to a minimum. The pumping hoses shall be a minimum diameter of 3 times to size of the largest aggregate and the minimum size permitted shall be 1" diameter.
13. The pump pressure shall be limited to the minimum necessary to completely fill the cavity with repair mortar.
14. Immediately after mixing, pump the repair mortar into the formed area.
15. District personnel shall cast (6) 2-inch by 2-inch cubes to determine that 1 and 7 day compressive strength results meet the requirements of the performance criteria.

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.

ITEM 905.001 (Continued)

MANUFACTURER'S FIELD REPRESENTATIVE

1. The Contractor shall arrange with the mortar manufacturer to have the services of a competent field representative at the work site prior to any mixing of components to instruct the work crews in the proper mixing and application procedures. The field representative shall remain at the job site after work commences to instruct until she/he and the Engineer are satisfied that the crew has mastered the technique of installing the system successfully. The representative shall make periodic visits to the project as the work progresses and shall confer on each visit with the Engineer.
2. The Manufacturer's Field Representative must be fully qualified to perform the work and shall be subject to the approval of the Engineer.
3. The Contractor shall be completely responsible for the expense of the services of the required field representative and the bid contract price shall be full compensation for all costs in connection therewith.

METHOD OF MEASUREMENT

Item 905.001 will be measured for payment by the Square Foot of repair area, complete in place. Forming of the repair areas and pre-wetting of the substrate shall be considered incidental to the work and shall not be measured for payment.

BASIS OF PAYMENT

Item 905.001 will be paid for at the Contract unit price per Square Foot, which price shall include all labor, materials, equipment, forming, placement of concrete, curing, manufacturer representative, and all incidental costs required to complete the work.

No separate payment will be made for surface preparation, but all costs in connection therewith shall be included in the Contract unit price bid.

The removal of deteriorated concrete will be paid for separately under Item 127.13.

ITEM 905.21 5000 PSI, 3/8 INCH, 710 HP CEMENT CONCRETE FOR BEAM END REPAIRS **CUBIC YARD**

The work under this Item shall conform to the relevant provisions of Subsection 901 of the Standard Specifications, and the following:

The work under this item shall consist of forming, providing, placing, and consolidating 5000 PSI, 3/8 Inch, 710 HP Cement Concrete to perform beam end encasements, as directed by the Engineer.

The Contractor shall obtain the approval of the Engineer that all surface preparations of the beam ends, installation of threaded rods and steel reinforcing has been installed and accepted by the Engineer prior to placing repair concrete.

The concrete shall be properly consolidated by inserting 1" nominal head diameter pencil vibrators in openings at the tops of the forms at a maximum spacing of 1½ times the radius of action of the vibrator used. The slump of the concrete at discharge shall be increased to 6" to 7" in order to facilitate proper consolidation. Increasing the slump by addition of mixing water in excess of the amount contained in the MassDOT approved mix design shall not be permitted. The mix shall contain superplasticizer conforming to AASHTO M 194 Type F or G, which shall be added in accordance with the concrete technician's recommendations. The amount of superplasticizer added to the cement concrete shall be recorded on the delivery slip. The delivery slip shall be signed by the concrete technician. The concrete technician shall be either an ACI Certified Concrete Technician (minimum Grade I - Field) or a New England Transportation Technician Certification Program - Certified Concrete Technician.

The work shall also include drilling holes in the webs of beam ends and the installation of threaded rod reinforcement prior to encasement of the webs in concrete. Material properties and construction procedures shall conform to the requirements shown on the Drawings and Sketches (see **Document A00803**).

METHOD OF MEASUREMENT

Item 905.21 will be measured for payment by the Cubic Yard of 5000 PSI, 3/8 Inch, 710 HP Cement Concrete placed, complete in place.

BASIS OF PAYMENT

Item 905.21 will be paid for at the Contract unit price per Cubic Yard, which price shall include all labor, tools, equipment, formwork, materials and all incidental items of work necessary to satisfactorily complete the repairs. This shall include the required drilling of holes in web and installation of threaded rods, as required in the Drawings and Sketches (see **Document A00803**).

ITEM 909.5 RAPID HARDENING CEMENTITIOUS PRODUCTS FOR CONCRETE REPAIRS CUBIC YARD

The work under this Item shall conform to the relevant provisions of Subsection 901 of the Standard Specifications and the following:

The work under this Item shall consist of the supplying, mixing, placing, and curing of rapid hardening cementitious products for concrete repairs. This item shall be used for patching after all deteriorated and/or unsound concrete is removed from the bridge deck and substructure.

MATERIALS

Materials shall meet the requirements specified in the following Subsections of Division III:

M4.04.2 Rapid Hardening Cementitious Products for Concrete Repairs

The product must be listed on the Department Qualified Construction Materials List (QCML) for the appropriate application. All the manufacturer's recommendations shall be met.

Materials shall be delivered to jobsite in original, unopened, undamaged containers that clearly show the manufacturer's name, product name, and batch number. Material shall be stored in a dry area off the ground, protected from rain, snow, and other sources of moisture. Material shall be protected from temperature extremes.

If the product is extended with aggregate not include in original product packaging, shall also meet the requirements specified in the following Subsections of Division III:

M4.01.2 Aggregate

Products that are extended with aggregate not included in the original product packaging shall be formulated per the product's technical data sheet and evaluated through Department mix design evaluation and verification testing.

Aggregate specified, labeled and furnished by the rapid set patching material manufacturer may be used with approval of the Engineer. The mixing process for expanding the rapid setting patching material shall be performed per the Manufacturer's recommendations.

The nominal maximum aggregate size shall be 3/8 inch.

CONSTRUCTION METHODS

All cement concrete materials, concrete handling, placement, protection, curing, and finishing requirements of Subsection 901 shall apply.

MIXING, PLACEMENT AND FINISHING

The Contractor's attention is directed towards the Repair Procedure as noted in Drawings and Sketches (see **Document A00803**).

ITEM 909.5 (Continued)

Surfaces that are adjacent to the placement shall be protected with drop cloths, waterproof paper, or other means to maintain them free of material splashes, water, and debris.

The Contractor shall be required to mix and place the cement by using an eight (8) cubic foot minimum rubber-blade portable mixer. Two (2) mixers will be required to be on site, of which one mixer can be used as a back-up. Sufficient mixing and placing equipment shall be provided on the construction site by the Contractor to ensure that a breakdown of equipment will not cause significant delays in completing the scheduled work in the shift.

All concrete surfaces shall be prepared in accordance with PREPARATION OF CONCRETE SURFACES.

The deck repair concrete shall be placed immediately after mixing and shall be worked firmly into sides and bottom of repair area to achieve good bond. The concrete placement shall start at one edge of the excavation and shall continue full depth with temporary vertical bulkheads, if needed, to ensure that horizontal cold joints do not occur between successive concrete placements.

Curing method shall be in accordance with Subsection 901.38.D.1: Liquid membrane-Forming Compounds for Curing.

Final finishing shall be performed as soon as possible after placement as there will be little or no bleed water.

The Engineer may require the Contractor to vibrate and/or power screed the patched area. Payment for such equipment shall be considered incidental to this Item.

For cold conditions the requirements of 901.33B shall apply.

Approval by the Engineer for all formwork shall be required prior to placement of any concrete. Formwork shall be maintained and remain in place a minimum of seventy-two (72) hours after placement.

BRIDGE DECK VIBRATION

At the direction of the Engineer, in order to minimize the effects of vibrations from vehicular traffic passing in adjacent lanes next to each placement, traffic should be slowed along the adjacent travel lanes and the placement of concrete should be executed in the hours described in the Schedule of Work.

ITEM 909.5 (Continued)

OPEN TO TRAFFIC

Compressive strength of 2000 psi shall be attained prior to opening the area to traffic.

DEPARTMENT ACCEPTANCE

Quality Control and Department Acceptance shall meet the requirements specified in the following Subsections of Division III:

M4.03.2 Producer Quality Control

M4.03.3 Department acceptance

METHOD OF MEASUREMENT

Item 909.5 will be measured for payment by the Cubic Yard of Rapid Hardening Cementitious Products for Concrete Repairs installed, complete in place.

BASIS OF PAYMENT

Item 909.5 will be paid for at the Contract unit price per Cubic Yard, which price shall include all labor, materials, equipment, surface preparation, and all incidentals required to complete the work.

No separate payment will be made for the installation and subsequent removal of any formwork, coating/patching of the steel reinforcing, but all costs in connection therewith shall be included in the Contract unit price bid.

ITEM 910.1 STEEL REINFORCEMENT FOR STRUCTURES - EPOXY COATED POUND

The work under this Item shall conform to the relevant provisions of Subsection 901 of the Standard Specifications and the following:

All requirements of Subsection 901.35 Reinforcement shall be adhered to, including but not limited to lapping at splices and ties at every other intersection.

The Contractor may be required to submit for approval, detail plans and schedule of bar reinforcement. The Contractor will replace reinforcing bars as directed by the Engineer. Any reinforcing steel damaged by the Contractor's operations will be replaced by the Contractor at their own expense.

METHOD OF MEASUREMENT

Item 910.1 will be measured for payment by the Pound of steel reinforcement bars installed, complete in place.

BASIS OF PAYMENT

Item 910.1 will be paid for at the Contract unit price per Pound, which price shall include all labor, materials, tools, equipment, and all incidentals required to complete the work.

ITEM 910.5 STEEL REINFORCEMENT FOR BEAM END REPAIRS POUND

The work under this Item shall conform to the relevant provisions of Subsection 901 of the Standard Specifications and the following:

The work under this item consists of procuring and installing reinforcing steel bars and threaded rod reinforcing steel as shown on the Drawings and Sketches (see **Document A00803**) for the beam encasement repairs. Work shall include the supply and installation of supplemental steel reinforcement and threaded rods. The threaded rods shall be attached to the beam webs in holes that shall be drilled through the webs and secured using nuts and washers as shown on the Drawings and Sketches (see **Document A00803**). Reinforcing steel bars shall be securely tied to the threaded rods.

All reinforcement shall be epoxy coated and conform to the requirements of M8.01.7.

METHOD OF MEASUREMENT

Item 910.5 will be measured for payment by the Pound of reinforcing steel bars installed, complete in place.

BASIS OF PAYMENT

Item 910.5 will be paid for at the Contract unit price per Pound, which price shall include all labor, materials, equipment, and all incidentals required to complete the work.

ITEM 912. DRILLING AND GROUTING DOWELS EACH

The work under this Item shall conform to the relevant provisions of Subsection 901 of the Standard Specifications and the following:

The work under this Item shall consist of drilling holes, furnishing, installing, and grouting of steel dowel reinforcement at the locations shown on the Drawings and Sketches (see **Document A00803**) or as required by the Engineer.

The dowel embedment must be adequate to fully develop 125% of the yield strength of the bar. The embedment length, the method and equipment used to drill the dowel holes, and the diameter of the drilled hole shall at a minimum conform to the recommendations of the manufacturer and be submitted to the Engineer for approval.

MATERIALS

The grout to be used for these dowels shall be selected from the MassDOT Qualified Construction Materials List for its specific application. Reinforcing steel dowels shall meet the requirements of M8.01.7. Reinforcing steel dowels shall be incidental to the work under this Item.

CONSTRUCTION METHODS

All dowel holes shall be air drilled provided that the minimum edge distance of 6 inches is observed. Should, in the Engineer's opinion, air drilling be inappropriate due to questionable strength of the existing /concrete or insufficient edge distance, the dowel holes shall be diamond core drilled. The inner surfaces of the diamond core drilled dowel hole's inner surfaces shall be subject to the approval of the Engineer. The diameter of the drilled dowel holes shall be in accordance with the recommendations of the grout manufacturer. The holes shall be blown clear of any debris and shall have the approval of the Engineer prior to the placement of any grout material. The drilling operation shall be performed without damage to any portion of the existing structure that is to remain in place. Any damage to any portion of the existing structure that is to remain in place shall be repaired to a condition equal to or better than that existing prior to the beginning of the Contractor's operations and shall be repaired at the Contractor's expense.

The Contractor shall strictly follow the recommendations of the manufacturer for mixing and placing the grout material prior to the placement of the dowel. The Contractor shall adhere to the recommendations of the manufacturer regarding minimum and maximum temperatures while placing the grout. Any excessive grout around the hole after placement of the dowel shall be struck off smooth while the grout is still fresh.

The Contractor shall perform on site a minimum of one (1) tests of the dowels for capacity in tension in each location and component. The test shall be performed in the presence of and to the acceptance of the Engineer. The testing, including the necessary material and equipment to perform the test, is incidental to the work under this Item. The pullout force shall correspond to 90% of the yield strength of the bar. If the test bar pulls out or if the concrete utilized in the test shows signs of fracture, the Contractor shall adjust the hole diameter, embedment length, and/or grout material to meet this requirement.

ITEM 912. (Continued)

The method of applying the tension load to the dowels shall conform to ASTM E488. Details of the test procedure, materials, and equipment shall be submitted to the Engineer for review and approval prior to commencement of the test. Dowels shall not be ordered until the embedment lengths have been approved by the Engineer.

The Contractor shall arrange with the material's manufacturer or distributor to have the services of a competent field representative at the work site prior to any drilling of the proposed dowel holes to instruct the work crews in proper dowel installation procedures. The field representative shall remain at the job site after work commences and continue to instruct until the representative, the Contractor, and Engineer are satisfied that the crew has mastered the technique of installing the dowels successfully. The representative shall make periodic visits to the project as the work progresses and shall confer on each visit with the Contractor, Inspector and/or Engineer. The manufacture's field representative must be fully qualified to perform the work and shall be subject to the approval of the Engineer.

METHOD OF MEASUREMENT

Item 912. will be measured for payment by the Each dowel installed, complete in place.

BASIS OF PAYMENT

Item 912. will be paid for at the Contract unit price per Each, which price shall include all labor, materials, equipment, furnishing dowels, drilling holes, grouting the dowels regardless of the diameter or depth of the hole, and all incidentals required to complete the work.

The Contractor shall be completely responsible for the expense of the service of the required field representative and the contract unit price shall be considered full compensation for all costs in connection therewith.

ITEM 960.2 DRILL WEB HOLE AND INSTALL THREADED ROD EACH

The work under this Item shall conform to the relevant provisions of Subsection 960 of the Standard Specifications and the following:

The work under this Item shall include drilling holes in the webs of beam ends and the installation of threaded rod reinforcement prior to encasement of the webs in Ultra High-Performance Concrete for Bridge C-20-005, Poland Road over South River in Conway. Material properties and construction procedures shall conform to the requirements shown on the Drawings and Sketches (see **Document A00803**).

MATERIALS

Threaded rod shall be fully threaded and conform to ASTM F1554 Grade 55. Nuts and washers shall conform to ASTM 563 and ASTM F436, respectively. Threaded rod, nuts, and washers shall be galvanized in accordance with Section M8.04.3 of the MassDOT Standard Specifications.

Portions of the threaded rod that will be embedded within the UHPC shall be solvent cleaned prior to UHPC placement.

METHOD OF MEASUREMENT

Item 960.2 will be measured for payment by the Each rod installed, complete in place.

BASIS OF PAYMENT

Item 960.2 will be paid at the Contract unit price per Each, which price shall be full compensation for all labor, materials, tools, equipment, and all incidentals required to complete the work.

ITEM 960.91 BEARING ADJUSTMENT EACH

The work under this Item shall conform to relevant provisions of Subsections 960 and 961 of the Standard Specifications and the following:

The work under this Item shall consist of resetting steel bearings at locations identified on the Drawings and Sketches (see **Document A00803**) or as required by the Engineer. The work shall include removing the sole plate, cleaning of the steel masonry plate and steel sole plate, and resetting the bearing assembly.

The bridge will be kept open to traffic while the beams are supported. Jacking and temporary shoring of the superstructure will be required to perform this work, and will be compensated separately under Item 106.88, Jacking and Shoring.

CONSTRUCTION

Bearing adjustment repair locations shall be as identified on the framing plans shown on the Drawings and Sketches (see **Document A00803**) or as required by the Engineer. Work specific to the adjustment of each bearing assembly shall be performed as shown on the Drawings and Sketches (see **Document A00803**) and in accordance with the following:

- Install jacks and temporary shoring as required.
- Remove welded connection of sole plate to flange by grinding, and slide the sole plate off the bearing assembly. Bearing masonry plate and anchor bolts shall be kept in-place.
- Install blocking as required.
- Clean all bearing components.
- Weld sole plate back to its original location on the bottom flange.
- Reset bearing assembly to its centered position, preferably during ambient temperatures between 30 and 90^{o} F. If bearing assembly is reset at other ambient temperatures, they shall be jacked and recentered when the temperature returns to that range at no additional compensation.
- Release jack load and remove jack and shoring materials.

The methods of procedures, materials, equipment, or anchorage proposed by the Contractor shall be submitted on a standard shop drawing for approval by the Engineer prior to beginning of work. Approval shall not relieve the Contractor of responsibility for the successful completion of the work.

The Contractor shall notify the Engineer upon completion of cleaning the bearings, prior to resetting. The Engineer shall inspect existing bearing assemblies to confirm anchor bolts and masonry plates are adequate for reuse and do not exhibit excessive section loss.

The work under this Item shall be done by methods not likely to produce fracture or other injury to the steel members remaining in the structure. If, in the opinion of the Engineer, the Contractor's operations damage other members of the structure being repaired, he shall be required to change his methods of operations and make all necessary repairs as ordered by the Engineer at no extra cost to MassDOT.

ITEM 960.91 (Continued)

During the course of the work, it may be necessary to disconnect, support, or adjust steel which is to remain in the structure. For these situations, the Contractor shall submit his proposals for disconnecting, supporting, or adjusting the steel, as necessary, to the Engineer for approval. The Contractor's proposals shall be approved prior to the actual commencement of any disconnecting, supporting, or adjusting of steel.

All welding, including field welding, shall conform to the latest edition of the Bridge Welding Code AASHTO/AWS D1.5.

The Contractor's submittals shall address all issues that relate to the work of this Item in order to maintain the stability and integrity of the bridge during the work.

METHOD OF MEASUREMENT

Item 960.91 will be measured for payment by the Each bearing adjusted, complete in place.

BASIS OF PAYMENT

Item 960.91 will be paid for at the Contract Unit Price per the Each, which price shall include the cost of all materials, labor, equipment, field measurements, field adjustments, repairs, cleaning, shop drawings, disposal of materials, and all incidentals required to complete the work.

The cleaning and painting of steel to be repaired shall be included in the work of Items 961.301 and 961.202.

ITEM 960.92 BEAM END ANCHORAGE REPAIR EACH

The work under this Item shall conform to the relevant provisions of Subsections 901, 960, and 961 of the Standard Specifications and the following:

The work under this item consists of furnishing and installing z-plates and installing new anchor bolts at existing beam end locations, as shown on the Drawings and Sketches (see **Document A00803**) or as otherwise noted by the Engineer.

Work includes but is not limited to:

- Cleaning all bearing components.
- Fabrication and installation of steel z-plates.
- Removal of existing anchor bolt to the top of the bottom flange and grouting of the annular space between the remnant anchor bolt and the surface of the hole at the top of the bottom flange.
- Welding to existing structural steel.
- Drilling and grouting of anchor bolts into existing concrete.

All work to reset the bearings, should it be required as indicated on the Drawings and Sketches (see **Document A00803**) or at the direction of the Engineer, shall be completed prior to the installation of the beam end anchorage repair. All work associated with the bearing reset shall be compensated under Item 960.91.

MATERIALS

All structural steel shall be AASHTO M270, Grade 36 or Grade 50 steel and shall conform to the requirements of M8.05.0 of the Standard Specifications.

All welding shall conform to the latest edition of the Bridge Welding Code AASHTO/AWS D1.5.

All new anchor bolts and hardware to be installed under this Item shall conform to the requirements of ASTM F1554 Grade 105, and shall be 1" diameter bolts unless otherwise directed by the Engineer. All anchor bolts, nuts, and washers shall be in conformance with Section M8.01.5 of the Standard Specifications.

The grout to be used for this work shall be a non-shrink cementitious mortar. Materials used to perform this work shall be listed on the MassDOT Qualified Construction Materials List. The Contractor shall submit proposed materials to the Engineer for review and approval.

CONSTRUCTION REQUIREMENTS

Removal operations shall be performed without causing damage to the portions of the existing structure that are to remain in place. Any damage to any existing portions of the structure that are to remain in place shall be repaired to a condition equal to or better than existing condition prior to the beginning of the Contractor's operations and shall be repaired at the Contractor's expense. All existing hardware removed as part of the work shall be properly discarded.

ITEM 960.92 (Continued)

The Contractor shall field verify the dimensions of the z-plates to ensure proper fit and clearance to the existing bearing assembly. The Contractor is fully responsible for the accuracy and fit of the work and thus shall determine what measurements are required and shall allow adequate time and resources for obtaining field measurements in developing the fabrication and construction.

New z-plates shall be painted with the intermediate and final coats after successful installation. All costs of cleaning, prime coating, and painting the existing steel and painting the new z-plates shall be paid for under Items 961.301 and 961.202.

The Contractor shall ensure z-plates sit level on the concrete bridge seat. Surface preparation to ensure level bearing, including but not limited to, grinding and cleaning shall be considered incidental to this Item.

All welding required to complete the work will be considered incidental and no separate compensation will be allowed. All welders shall be certified. Welders' qualifications certificates must be submitted to the Engineer for approval. Electroslag and electro gas welding will not be permitted. Welding will not be permitted when the air temperature is below 35° F or when the surfaces to be welded are wet from condensation, rain, snow, or ice. When the temperature is between 35° F and 45° F, the surface within 3" of the point where the weld is to be started shall be heated to a temperature of approximately 100° F, and this temperature shall be maintained as a minimum within this distance until the bead is completed.

Anchor bolt holes shall be cleaned of all dust and debris prior to installation of anchor bolts. Bolts shall be set plumb and aligned to allow proper fit-up of the steel without forcing. Nuts shall be tightened to achieve firm bearing with no gaps. Misaligned or oversized drilled holes shall be subject to Engineer review and direction.

The Contractor shall follow the recommendations of the manufacturer for mixing and placing the grout material prior to the placement of the anchor bolts. The Contractor shall, at a minimum, adhere to the ACI code requirements regarding minimum and maximum temperatures while placing the grout. Any excessive grout around the hole after placement of the bolt shall be struck off smooth while the grout is still fresh to maintain a level surface.

SUBMITTALS AND DOCUMENTATION

The Contractor shall submit to the Engineer a plan of the proposed repairs, showing the methods of procedures, materials, and equipment they intend to use. These repairs shall utilize the field measurements of the repair areas to verify fit of bridge components and all other repair dimensions. This submittal shall include shop drawings for the z-plates and anchor bolt layout, welding procedures and welder certifications, product data for grout materials, and a proposed installation procedure for drilling and anchor installation. Approval of this submission shall be obtained prior to the commencement of any work under this Item.

ITEM 960.92 (Continued)

Product data for the grout materials shall completely describe the products to be utilized. The materials shall be delivered clearly marked with legible and intact labels containing the manufacturer's name, brand name, and storage requirements that conform to manufacturer's recommendations.

LIMITATIONS

- Removal and replacement of the full bearing is not permitted under this Item.
- Field welding shall not be performed without proper surface preparation.
- Work that does not conform to the Contract Documents or is performed without Engineer approval, where required, will not be accepted.

METHOD OF MEASUREMENT

Item 960.92 will be measured for payment by the Each Beam End where z-plates and anchor bolts are installed, complete in place.

BASIS OF PAYMENT

Item 960.92 will be paid for at the Contract unit price per the Each, which price shall include all labor, materials, equipment, field welding, field measurements, field adjustments, cleaning, shop drawings, disposal of materials, and all incidentals required to complete the work.

The cleaning and painting of steel to be repaired shall be included in the work of Items 961.301 and 961.202.

Any work associated with resetting the bearings shall be compensated under Item 960.91.

ITEM 961.202 **CLEAN (FULL REMOVAL) AND PAINT STEEL BRIDGE NO. H-13-004** **LUMP SUM**

The work under this item shall conform to the relevant requirements of Subsection 961of the Standard Specifications, and the following:

The work under this item shall consist of cleaning and painting exposed structural steel, which shall include but is not limited to stringers, diaphragms, bearings, and connection plates.

The work under this item shall include the cleaning (full removal) and painting of all exposed steel at bridge H-13-004.

Steel repairs, directed by the Engineer, shall be completed before steel surfaces receive the intermediate and topcoat applications. The Contractor shall be required to clean and prime beam ends prior to any structural steel repairs directed by the Engineer, which will be paid under Item 107.97.

The work shall include cleaning the horizontal surfaces of the abutments and pier caps (herein referred to as bridge seats) of all debris. Debris may include, but is not limited to, sand, gravel, lead paint chips, loose rust and mill scale, existing construction debris, and bird guano. The Contractor shall take all precautions necessary to not have any guano or other debris fall into the water below.

CONSTRUCTION METHODS

STRUCTURAL STEEL INSPECTION

The Contractor shall notify the Engineer if significant amounts of section loss are found on the structural steel 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. This work shall be completed prior to the fabrication of steel beam end repair plate.

CLEANING BRIDGE SEATS

Cleaning operations shall be accomplished by hand scrapers and pressure washing in accordance with these special provisions.

All dirt, oil, grease, tar, road salt, guano or other foreign material which has accumulated on surfaces shall be removed with a pressure washing equipment, which shall be the final phase of cleaning. Containment during pressure washing operations shall also include use of a micro-net type filter to screen all debris which is washed from the structure.

The Contractor shall use non phosphate, non-polluting detergent, acceptable to the Department, that will clean the surfaces in a satisfactory manner. It is estimated that 0.5% by weight of cleaning compound at the nozzle is sufficient. Concentrations above 0.75% could possibly remove sound paint, which, if utilized, shall require remedial work to be accomplished at the expense of the Contractor.

Once pressure washing work is underway, the Contractor shall change or adjust the compound or percentage of each to attain a clean surface properly prepared, without damage to any sound paint.

ITEM 961.202 (Continued)

The Contractor shall be responsible for proper cleaning procedures, with the following serving only as a guideline to consider:

The operator should hold the face of the nozzle within six (6) inches of all surfaces and tilt it slightly in the direction of travel. The surface should first be wetted to allow the cleaning compound to loosen foreign matter which is later removed by a cleaning pass. The time interval between wetting and cleaning should be regulated according to the degree of dirt accumulations, but usually it is sufficient to go twice over an area that is conveniently reached from one position. The speed of pass over an area is comparable to that used in spray painting.

A properly cleaned surface will feel firm and somewhat tacky, but it should not be slick or grimy to the touch. In 90% of the cases, the areas that are properly cleaned can be verified by sight.

Excessive deposits of cleaning liquids remaining on surfaces that will not drain shall be flushed off with clean, fresh water without detergent. In as much as a certain amount of liquid will remain on horizontal surfaces after cleaning, the cleaning program should be followed through from top to bottom systematically. The last pass on any surface should be made with clean fresh water without detergent to remove surplus solution.

BASIS OF PAYMENT

Item 961.202 will be paid for at the Contract unit price per Lump Sum, which shall include all labor, materials, equipment, and all incidentals required to complete the work. Partial payments of the lump sum will be made in accordance with Section 961.80 of the Standard Specifications.

No separate payment will be made for bridge seat cleaning, but all costs in connection therewith shall be included in the Contract unit price bid.

Incidental to this Item is 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 961.301 CLEAN (FULL REMOVAL) AND PAINT STEEL BEAM ENDS C-05-035 SQUARE FOOT

The work under this Item shall conform to the relevant provisions of Subsection 961 of the Standard Specifications, and the following:

The work under this item shall consist of cleaning and painting structural at steel repair locations and/or in areas requiring corrosion arresting measures as directed by the Engineer. Work may include but is not limited to stringers, girders, cross girders, diaphragms, seismic restraints, connection plates and bearings.

The work under Item 961.301 shall include the cleaning and painting of all exposed steel within the limits approved by the Engineer. The Engineer and Contractor shall agree on a square foot area to be paid prior to the start of the work. Limits of full removal shall extend to six (6) inches outside of a designated repair area, or as directed by the Engineer.

The work under Item 961.301 shall consist of cleaning and painting the following exposed structural steel at bridge C-05-035:

- Beams to a limit of 1' beyond the area designated for repair as depicted in the Drawings and Sketches (see **Document A00803**).
- All exposed surfaces of the bearings of beam ends designated for repair as noted above.
- Any diaphragm connection plates that fall within the repair area of beams designated for repair as noted above.
- The first 1' of any diaphragm that connects to the beams within the repair area of beams designated for repair as noted above.

Steel repairs, if any, required by the Engineer, shall be completed before steel surfaces receive the intermediate and topcoat applications. The Contractor shall clean and prime the steel prior to any structural steel repairs required by the Engineer, which will be paid under Item 107.97.

CONSTRUCTION METHODS

PIGEON WASTE/DEBRIS REMOVAL AND CLEANING

The Contractor shall first remove all accumulation of sediment, debris, and pigeon waste from the areas where work is being performed as directed by the Engineer which may include but is not limited to tops of abutment bridge seats (including drainage troughs), pier caps, steel members.

The Contractor shall clean all exposed surfaces of abutment seats and pier caps by power washing with water pressure not less than 2200 psi, at nozzle, and flow rate not less than 2.0 gallons of water per minute to the acceptance of the Engineer. All costs of cleaning abutment seats and pier caps, including debris collection and removal, disposal and pressure washing, shall be considered incidental to this Item.

STRUCTURAL STEEL INSPECTION

The Contractor shall notify the Engineer if significant amount of section loss is found on the structural steel 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.

ITEM 961.301 (Continued)

OVERCOAT

The Contractor shall over-coat by six (6) inches beyond the limits established with the final coat of the three-coat system. The over-coated surfaces must be surface prepared in accordance with the manufacturer's specifications to ensure a proper bond of the new paint to the existing paint. The Contractor should note that some areas may have been painted with previously approved paint systems or with just shop primer on them. The removal of debris, cleaning and overcoating in this area shall be incidental to this Item.

METHOD OF MEASUREMENT

Item 961.301 will be measured for payment by the Square Foot of structural steel cleaned and painted, complete in place.

BASIS OF PAYMENT

Item 961.301 will be paid for at the Contract unit price per Square Foot of structural steel cleaned and painted, which price shall include all labor, materials, equipment, design and installation of the required containment system/work platform, removal and disposal of accumulated pigeon waste and other contaminants, temporary removal and resetting the anti-missile fencing to access the steel for painting, and all incidentals required to complete the work.

Item 961.301 covers cleaning and painting of structural steel that is not otherwise covered under any lump sum cleaning and painting items. In no case will the Contractor be paid under more than one Item for the same area of cleaning and painting. The Contractor is responsible to sequence and steel repair work and painting, payment will not be made to paint the same area multiple times due to the Contractor's sequence of work.

The cleaning and removal of any accumulated materials in the areas to be cleaned and painted will be incidental to this Item.

Payment areas considered incidental shall include new vertical projections from additional steel thickness of repair plates, bolts and nuts.

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 968.1 SCUPPER AND DOWNSPOUT EACH

The work under this item shall conform to the relevant provisions of Subsections 901 and 960 of the Standard Specifications and the following:

The work shall include furnishing and installing steel bridge scuppers with steel grates and downspouts, as shown on the Drawings and Sketches (see **Document A00803**) and as described herein below. The work also includes furnishing and installing all of the associated fittings and hardware necessary to complete the installation of the scuppers and downspouts.

MATERIALS

- Scupper grates shall be fabricated from steel plate conforming to AASHTO M 270 Grade 50.
- Downspouts shall be fabricated from either steel plate conforming to AASHTO M 270 Grade 36 or square tube conforming to ASTM A 500 Grade A or B (scuppers may be fabricated from Grade 50 steel at the Contractor's option).
- Downspout pipe shall conform to ASTM A53 seamless pipe.
- All steel components shall be hot-dip galvanized in accordance with AASHTO M 111.
- Square downspout pipe shall be galvanized and painted to match the color of the adjacent steel beams.
- All bolts and nuts for the scuppers shall be stainless steel.

All steel shall be hot-dip galvanized in accordance with AASHTO M111. The scupper downspouts shall be galvanized.

All welding shall comply with the AASHTO/AWS bridge welding code (ANSI/AASHTO/AWS D1.5). All welds shall be continuous. All joints shall be welded using two-sided ¼" fillet welds or ¼" PJP welds with a backing seal weld, as applicable.

CONSTRUCTION METHODS

The Contractor shall submit shop drawings to include details of the scuppers, downspouts, drain pipes, and assortment of fittings for the Engineer's approval. The Contractor shall include the temporary support design and any additional deck reinforcing for the scupper installation as part of the scupper shop drawing submission.

The Contractor shall form the concrete bridge deck adjacent to the scupper in accordance with Subsection 901. The scupper shall be temporarily supported and incorporated into the deck form. The scupper shall be cast in place, integral with the concrete bridge deck.

METHOD OF MEASUREMENT

Item 968.1 will be measured for payment by the EACH scupper installed, complete in place.

ITEM 968.1 (Continued)

BASIS OF PAYMENT

Item 968.1 will be paid for at the Contract unit price per EACH, which price shall include all labor, materials, equipment, and all incidentals required to complete the work.

Concrete excavation will be paid for under Item 127.4, concrete will be paid for under Item 905.2, and steel reinforcement will be paid for under Item 910.1.

No separate payment will be made for shop drawings, temporary support, and support design. All costs in connection therewith shall be considered incidental to installing the scupper and included in the Contract unit price bid.

ITEM 974.3 METAL BRIDGE RAILING REMOVED FOOT

The work under this item shall conform to the relevant provisions of Subsection 975 of the Standard Specifications, and the following:

This work shall consist of removing existing steel bridge railings at Bridge No. H-13-004 (0F8).

METHOD OF MEASUREMENT

Item 974.3 will be measured for payment by the Foot of bridge rail removed.

BASIS OF PAYMENT

Item 974.3 will be paid for at the Contract unit price per Foot, which price shall include all costs for labor and materials required for removal of the existing railing, and all other incidentals required to complete the work.

ITEM 975.8 THRIE BEAM BRIDGE RAIL WITH HANDRAIL FOOT

The Work shall conform to the relevant provisions of Subsection 975 and Subsection 601 of the Standard Specifications and the following. The work under this item shall consist of the fabrication and installation of a Thrie Beam Bridge Rail system including Handrail.

Thrie beam panels shall be 10-gauge panels unless noted otherwise on the Drawings and Sketches (see **Document A00803**) and shall conform to AASHTO M 180 Class B and shall meet the other requirements of M8.07.0 and M8.07.1. Offset blocks shall be in accordance with M8.07.0.B.

The posts and base plates shall be in accordance with M8.05.9, except that components need not be painted, finish will be the galvanizing only.

Handrail pipes shall be ASTM A 500 Grade B, Galvanized in accordance with M7.10.0.

The bridge rail posts shall be installed into the existing bridge curbs with the use of the HILTI HIT RE-500V3 adhesive anchor system. The installation of anchors shall be in accordance with all manufacturer recommendations.

METHOD OF MEASUREMENT

Item 975.8 will be measured for payment by the Foot of Thrie Beam Bridge Rail system including Handrail installed, complete in place. The measurement shall be made along the face of the thrie beam between the center of the first and last post installed on and anchored to the curbs on each side of the bridge.

BASIS OF PAYMENT

Item 975.8 will be paid for at the Contract Unit Price per Foot, which price shall include all labor, materials, tools, equipment disposal of all materials, and all incidentals required to complete the work. Separate measurement and payment shall be made for each element of all Highway Guardrail at each of the four quadrants leading into or out of the bridge.

Cost for the handrail shall be considered incidental to this Item.

ITEM 994.1 TEMPORARY PROTECTIVE SHIELDING SQUARE FOOT

The work under this Item consists of designing, furnishing, installing, maintaining, removing and disposing of existing shielding system on and under bridges, in locations required by the Engineer.

The work under this Item shall provide for the protection of the waterways beneath the bridges from falling debris during the removal of the concrete from bridge decks, curbs, parapets, and copings. This shall be accomplished by the utilization of adequate shielding methods.

No portion of the bridge deck or coping shall be removed until the protective shielding is in place and complete.

Any existing formwork on the bridge shall also be removed and disposed by the Contractor away from the job area, at no additional expense.

All shielding shall meet the following requirements:

1. Temporary Protective Shielding must be used on bridges during concrete excavation and when, in the opinion of the Engineer, there is the possibility of dislodging concrete from the bottom of the deck, parapets or coping. In some cases, the Contractor may be able to utilize the bottom flanges of existing steel beams as supports for the protective shielding. However, the Contractor will not be permitted to weld onto, drill into, or cut any existing structural steel beams.

2. The Contractor shall submit drawings and calculations stamped by a Professional Engineer of the appropriate discipline registered in Massachusetts of the proposed temporary shielding to the Engineer for approval prior to its installation. The drawings shall include details of all connections, brackets, and fasteners. However, when the spacing between existing steel beams is 70 inches or less, the Contractor may utilize a wood plank shielding scheme.

3. Shielding shall be designed to safely withstand all loads that it will be subjected to. The allowable design stresses shall be in accordance with AASHTO Standard Specifications for Highway Bridges, 17th Edition. The design shall also include a description of the equipment and construction methods proposed for the deck, parapet, or coping excavation and the maximum size of the area being excavated. The shielding shall also be designed to withstand the maximum size of the excavated area should it fall during excavation or removal. No debris shall be swung over traffic on the bridge.

4. Shielding shall be designed such that impact on traffic during installation and removal shall be minimal. The Contractor shall submit the traffic plan to the Engineer for approval.

5. The shielding shall extend a sufficient distance above and beyond the deck overhang at the fascia where concrete excavation is required outside the fascia beams. The shielding shall extend the length of the damaged or distressed portion of the deck a length of sufficient distance to do the required deck demolition. Also, the width of shielding shall completely extend over the river below and shall extend a minimum of one beam width in the transverse direction beyond the limits of the excavation.

ITEM 994.1 (Continued)

6. The area for shielding shall be approved by the Engineer prior to any installation of any shielding. All spaces along the perimeter of the shielding and at the seams shall be sealed to prevent dust, water, and debris from escaping and falling into the waterway below the bridge.

7. The Engineer may request that the shielding be designed so that it may also serve as false work (forms) for all areas of full-depth concrete replacement/repair.

8. The shielding shall be maintained and remain in place until the strength of the concrete used to repair the deck and coping has cured and reached the design strength requirement, except where shielding needs to be removed and reset to install forming for the areas of full depth repair. The shielding shall remain the property of the Contractor and shall be removed by the Contractor from the site when no longer needed.

If the Contractor's operations damage any existing portions of the bridge that are to remain, such damage shall be repaired at the Contractor's own expense.

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

METHOD OF MEASUREMENT

Item 994.1 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 will be paid for at the Contract unit price per Square Foot, which price shall include all labor, materials, equipment, engineering services, removal and disposal all debris, shielding installation, maintenance, final removal upon completion of repair work, and all incidentals required to complete the work.

ITEM 994.12 TEMPORARY PROTECTIVE SHIELDING REMOVED AND RESET SQUARE FOOT

The work under this Item consists of removing and resetting protective shielding used for performing reinforced concrete repairs to the bridge copings.

The Contractor shall phase the work where possible such that concrete excavation is performed on one bridge coping at a time. Temporary protective shielding shall not be removed and reset to the opposite bridge coping until all proposed concrete excavation is complete.

Prior to commencing work, the Contractor shall submit to the Engineer for approval, proposed construction methods for removing and resetting the protective shielding.

Any debris that falls on the shielding shall be completely cleaned off from the protective shielding and disposed of offsite by the Contractor. Removal and disposal of materials will be subject to the regulations and requirements of local authorities governing the disposal of such materials. The disposal shall be done at no additional charge.

Any shielding damaged by the Contractor shall be replaced at the Contractor's expense. Any existing locations where protective netting has become damaged beyond the control of the Contractor, (in the opinion of the Engineer), may be replaced at the Engineer's discretion.

METHOD OF MEASUREMENT

Item 994.12 will be measured for payment by the Square Foot of protective shielding removed and reset, complete in place.

BASIS OF PAYMENT

Item 994.12 will be paid for at the Contract unit price per Square Foot of protective shielding actually removed and reset. The Contract Price shall include all labor, materials, tools, equipment, and all incidentals required to complete the work.

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DOCUMENT A00803

DRAWINGS AND SKETCHES

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GENERAL NOTES:

DESIGN:

ORIGINAL DESIGN LOADING OF BRIDGES C–05–035 AND H–13–004 IS H–15. REPAIRS FOR THESE BRIDGES ARE DESIGNED IN ACCORDANCE WITH THE 17TH EDITION OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES WITH INTERIM SPECIFICATIONS THROUGH 2002 FOR H20 LOADING. FOR ORIGINAL AND REPAIR DESIGN LOADING OF BRIDGES A–13–014, A–13–020, A–13–026, AND C–20–005, SEE THE CORRESPONDING REPAIR PLANS PREPARED BY GILL ENGINEERING.

EXISTING CONDITIONS:

THE CONTRACTOR SHALL DETERMINE AND ESTABLISH ALL DIMENSIONS AND EXISTING DETAILS NECESSARY FOR THE COMPLETION OF WORK BY FIELD MEASUREMENT AND SURVEY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY AND ACCURACY THEREOF AND SHALL NOT ORDER ANY MATERIALS OR COMMENCE ANY FABRICATION UNTIL THE REQUIRED MEASUREMENTS HAVE BEEN MADE ON THE ACTUAL STRUCTURE AND THE ELEMENT OF PROPOSED WORK HAS BEEN APPROVED BY THE ENGINEER.

EXISTING BRIDGE PLANS:

PLANS FOR THE EXISTING BRIDGES ARE AVAILABLE AND MAY BE REQUESTED ELECTRONICALLY FROM PLANS AND RECORDS.

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).

CONCRETE REPAIR NOTES:

THE DETERIORATED AREAS INDICATED HEREIN ARE BASED ON AVAILABLE INFORMATION AND ARE NOT INTENDED TO BE ALL INCLUSIVE, RATHER A SIGNIFICANT REPRESENTATION OF THE REPAIRS TO BE PERFORMED. THE CONTRACTOR SHALL SOUND ALL CONCRETE SURFACES OF THE SUBSTRUCTURE, WINGWALLS, FASCIAS, DECK CURBS, AND BEAM SEATS IN THE FIELD AND MARK OUT SPALLED, DETERIORATED AND DELAMINATED CONCRETE AREAS TO BE APPROVED BY THE ENGINEER FOR REPAIR BEFORE THE CONTRACTOR COMMENCES ANY REPAIRS. NO REPAIRS SHALL BE DONE ON ANY BRIDGE COMPONENTS THAT ARE OUTSIDE THE EXISTING RIGHT OF WAY.

CONCRETE MIXES:

5000 PSI $\frac{3}{8}$", 710 HP CEMENT CONCRETE: BRIDGE CURB & COPING REPAIRS

RAPID HARDENING CEMENTITIOUS PRODUCT FOR REPAIR: DECK REPAIRS AND SUBSTRUCTURE REPAIRS

STRUCTURAL STEEL:

THE CONTRACTOR SHALL FIELD MEASURE EXISTING CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS TO ENSURE PROPER FIT UP OF THE REPAIR PLATES AND ANGLES. PROPOSED STRUCTURAL STEEL SHALL BE SHOP–PRIMED AND CONFORM TO AASHTO M270 GRADE 36 OR GRADE 50 UNLESS OTHERWISE NOTED. PERIMETER OF ALL REPAIR PLATES AND ANGLES SHALL BE SEALED USING SILICONE CAULK UPON COMPLETION OF THE REPAIRS.

ALL CONNECTIONS SHALL BE MADE WITH ASTM F3125 GRADE A325 TYPE 1 H.S. $\frac{7}{8}$"ø BOLTS IN STANDARD HOLES UNLESS OTHERWISE NOTED. FAYING SURFACES SHALL BE CLEANED AND PREPARED TO CLASS A SURFACE CONDITIONS. SEE SPECIAL PROVISIONS.

REINFORCEMENT:

REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 31 GRADE 60. 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"	17"	21"
2. 12" OF CONCRETE BELOW BAR	18"	22"	27"
3. EPOXY COATED BARS, COVER <3db, OR CLEAR SPACING <6db	21"	26"	31"
4. COATED BARS, ALL OTHER CASES	17"	21"	25"
5. CONDITION 2. AND 3.	23"	29"	35"
6. CONDITION 2. AND 4.	21"	27"	32"

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

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

UTILITIES:

THE CONTRACTOR SHALL LOCATE AND PROTECT FROM DAMAGE ALL EXISTING UTILITIES.

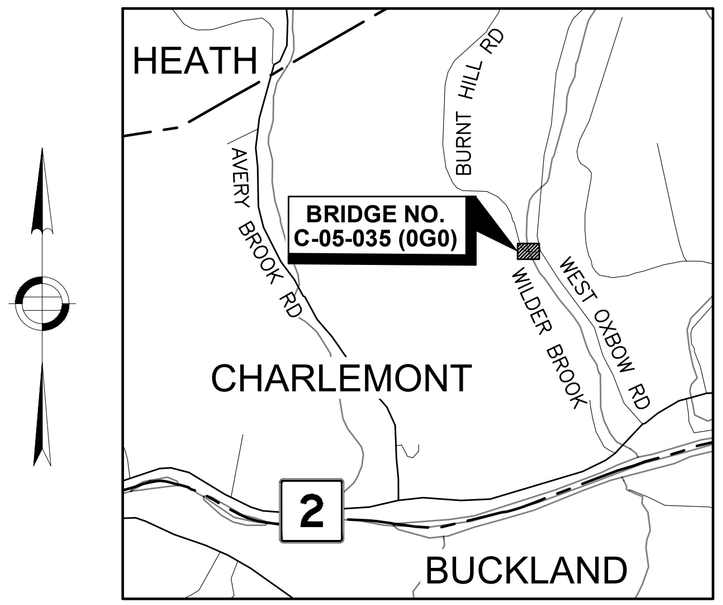
SHOP DRAWINGS:

THE CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS AS REQUIRED BY THE STANDARD SPECIFICATIONS AND THE LATEST MASSDOT BRIDGE MANUAL. PROPOSED COMPONENTS REQUIRING FIELD MEASUREMENTS SHALL BE DESIGNED, DETAILED, AND SUBMITTED TO THE ENGINEER FOR APPROVAL.

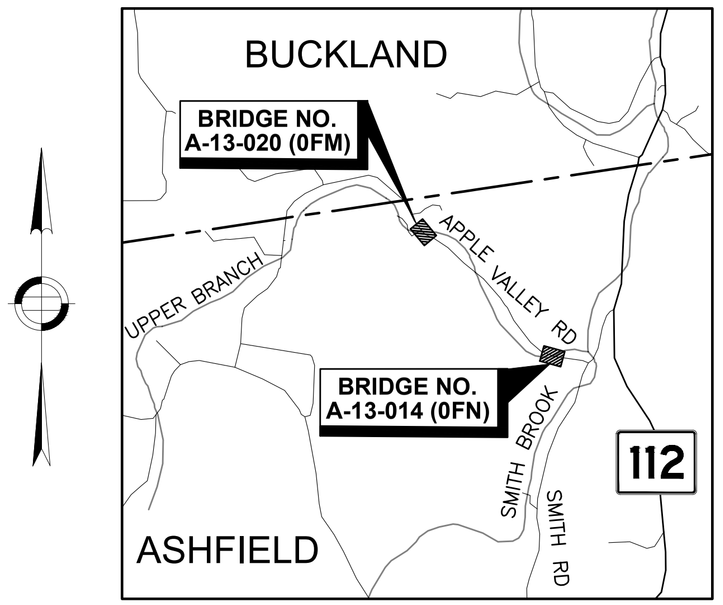
GENERAL REPAIR NOTES:

ALL MATERIALS AND WORK METHODS SHALL CONFORM TO THE RELEVANT PROVISIONS OF THE 2026 MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.

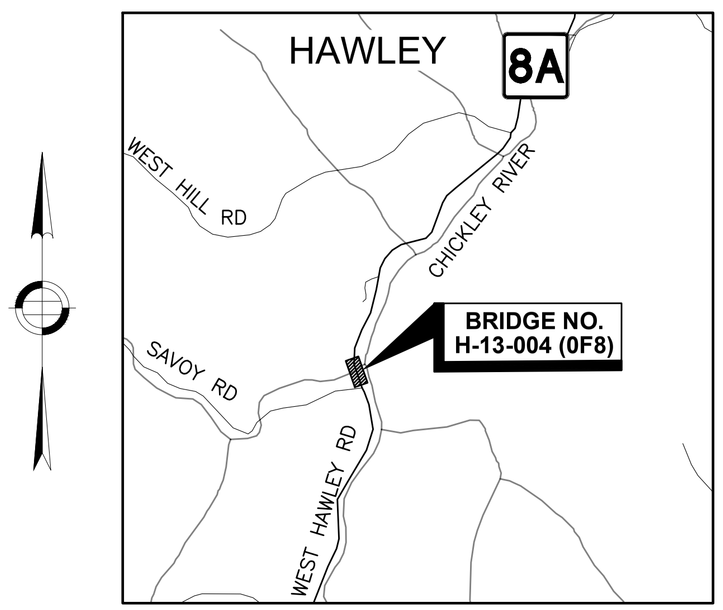
ALL REPAIR LIMITS SHOWN ARE INDICATIVE OF CONDITIONS ENCOUNTERED AT THE TIME OF INSPECTION (JANUARY & FEBRUARY 2026) AND ARE NOT NECESSARILY REPRESENTATIVE OF THE LIMITS THAT WILL BE ENCOUNTERED AT THE TIME OF CONSTRUCTION. ANY REPAIR SUMMARY TABLES OR LIMITS OF WORK NOTED ARE ESTIMATED FOR REFERENCE ONLY. CONTRACTOR SHALL COMPLETE INSPECTIONS AS REQUIRED FOR VARIOUS REPAIR TYPES TO DETERMINE THE FINAL LIMITS OF REPAIR PRIOR TO INITIATING FABRICATION OF REPAIR MATERIALS.



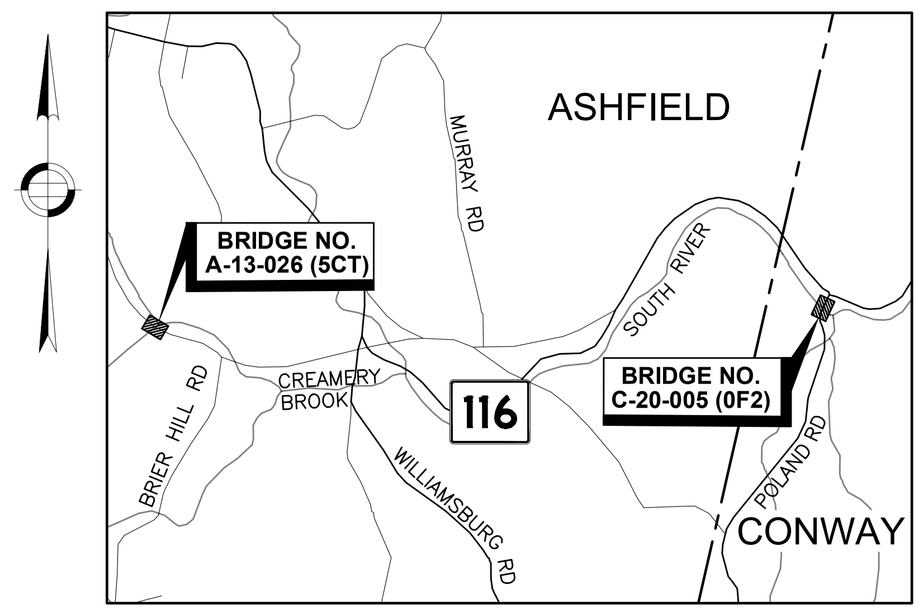
LOCUS
BRIDGE C–05–035
SCALE: 1" = 2000'



LOCUS
BRIDGE A–13–014 & BRIDGE A–13–020
SCALE: 1" = 2000'



LOCUS
BRIDGE H–13–004
SCALE: 1" = 2000'

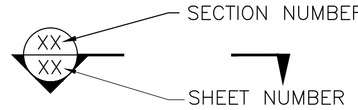


LOCUS
BRIDGE A–13–026 & BRIDGE C–20–005
SCALE: 1" = 2000'

BRIDGE LOCATIONS:

A–13–014 (0FN), APPLE VALLEY ROAD OVER UPPER BRANCH CLESSEN BROOK
A–13–020 (0FM), APPLE VALLEY ROAD OVER UPPER BRANCH CLESSEN BROOK
A–13–026 (5CT), CREAMERY ROAD OVER CREAMERY BROOK
C–05–035 (0G0), BURNT HILL ROAD OVER WILDER BROOK
C–20–005 (0F2), POLAND ROAD OVER SOUTH RIVER
H–13–004 (0F8), ST. 8A/W. HAWLEY ROAD OVER CHICKLEY RIVER

SECTION MARK:



DISTRICT 1 - MULTIPLE LOCATIONS
MULTIPLE LOCATIONS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	1	34
	PROJECT FILE NO. 616282		

GENERAL NOTES, LOCUS, AND DRAWING LIST

DRAWING LIST	
SHEET NO.	SHEET TITLE
1	GENERAL NOTES, LOCUS, AND DRAWING LIST
C–05–035 (0G0) BURNT HILL RD OVER WILDER BROOK	
2	SUPERSTRUCTURE REPAIR SCHEDULE
3	DECK REPAIR SCHEDULE
H–13–004 (0F8) ST 8A OVER CHICKLEY RIVER	
4	ABUTMENT REPAIR SCHEDULE (1 OF 2)
5	ABUTMENT REPAIR SCHEDULE (2 OF 2)
6	SUPERSTRUCTURE REPAIR SCHEDULE
7	DECK REPAIR SCHEDULE (1 OF 2)
8	DECK REPAIR SCHEDULE (2 OF 2)
TYPICAL CONSTRUCTION DETAILS	
9	SUBSTRUCTURE REPAIR DETAILS (1 OF 2)
10	SUBSTRUCTURE REPAIR DETAILS (2 OF 2)
11	FULL DEPTH DECK REPAIR DETAILS
12	CURB AND COPING DETAILS
13	SCUPPER DETAILS
14	BRIDGE RAIL RETROFIT (1 OF 2)
15	BRIDGE RAIL RETROFIT (2 OF 2)
16	MISCELLANEOUS DETAILS (1 OF 2)
17	MISCELLANEOUS DETAILS (2 OF 2)
18	SUPERSTRUCTURE REPAIR DETAILS (1 OF 2)
19	SUPERSTRUCTURE REPAIR DETAILS (2 OF 2)
TEMPORARY TRAFFIC CONTROL PLANS	
20	TTCP GENERAL NOTES
21	A–13–014 (0FN)
22	A–13–020 (0FM)
23	A–13–026 (5CT) (1 OF 2)
24	A–13–026 (5CT) (2 OF 2)
25	H–13–004 (0F8) (1 OF 2)
26	H–13–004 (0F8) (2 OF 2)
27	C–05–035 (0G0) (1 OF 2)
28	C–05–035 (0G0) (2 OF 2)
29	C–20–005 (0F2)
ADDITIONAL REPAIR PLANS	
30	A–13–014 (0FN) (1 OF 2)
31	A–13–014 (0FN) (2 OF 2)
32	A–13–020 (0FM)
33	A–13–026 (5CT)
34	C–20–005 (0F2)

JULY 18, 2026	PS&E R2 SUBMISSION

MassDOT Massachusetts Department of Transportation Highway Division

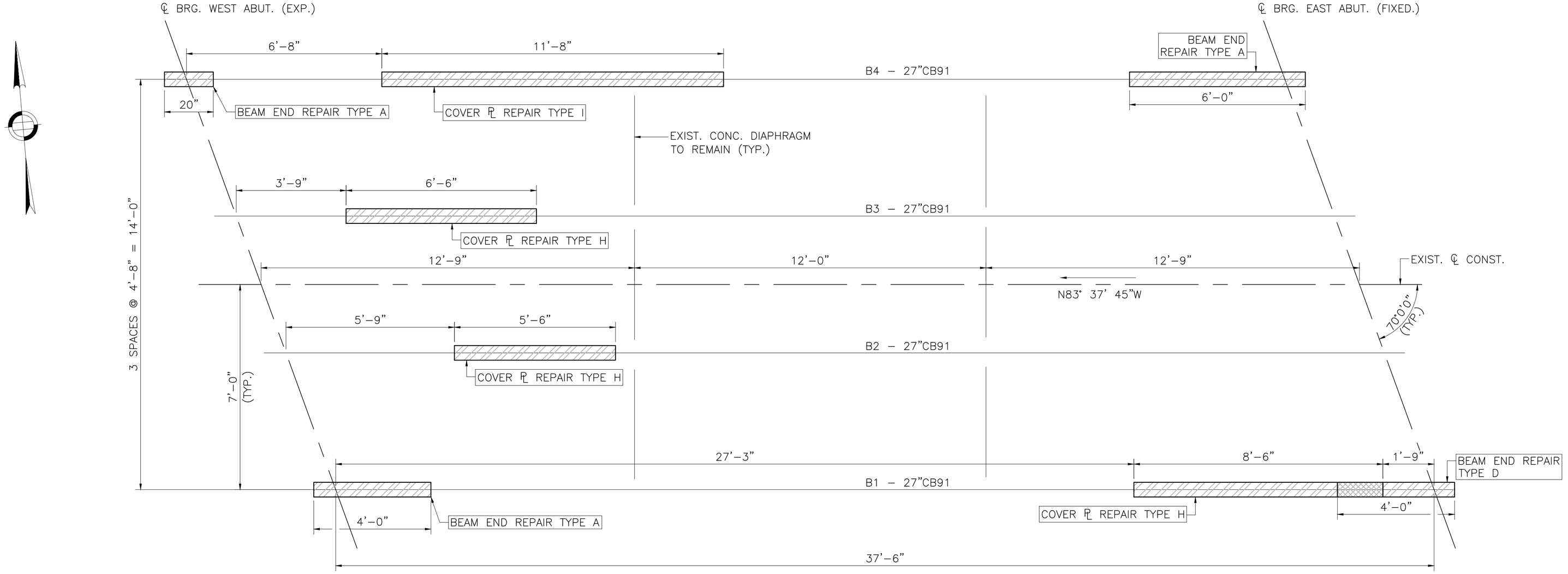
PROPOSED BRIDGE PRESERVATION
DISTRICT 1 – MULTIPLE LOCATIONS
A–13–014 (0FN), A–13–020 (0FM), A–13–026 (5CT), C–05–035 (0G0), C–20–005 (0F2), H–13–004 (0F8)

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION
10 PARK PLAZA BOSTON, MASS

TEC The Engineering Corp
282 Merrimack Street,
2nd Floor
Lawrence, MA 01843

BRT_GENERAL NOTES, LOCUS, AND DRAWING LIST.DWG Plotted on 30-Jun-2026 10:17 AM
Proposal No. 616282-135581
PS&E R2 Submission 30-June-2026

C-05-035 (0G0) BURNT HILL RD OVER WILDER BROOK
SUPERSTRUCTURE REPAIR SCHEDULE



FRAMING PLAN
SCALE: $\frac{1}{2}$" = 1'–0"

LEGEND

LIMITS OF STEEL REPAIRS

COVER PLATE OVERLAP

NOTES:

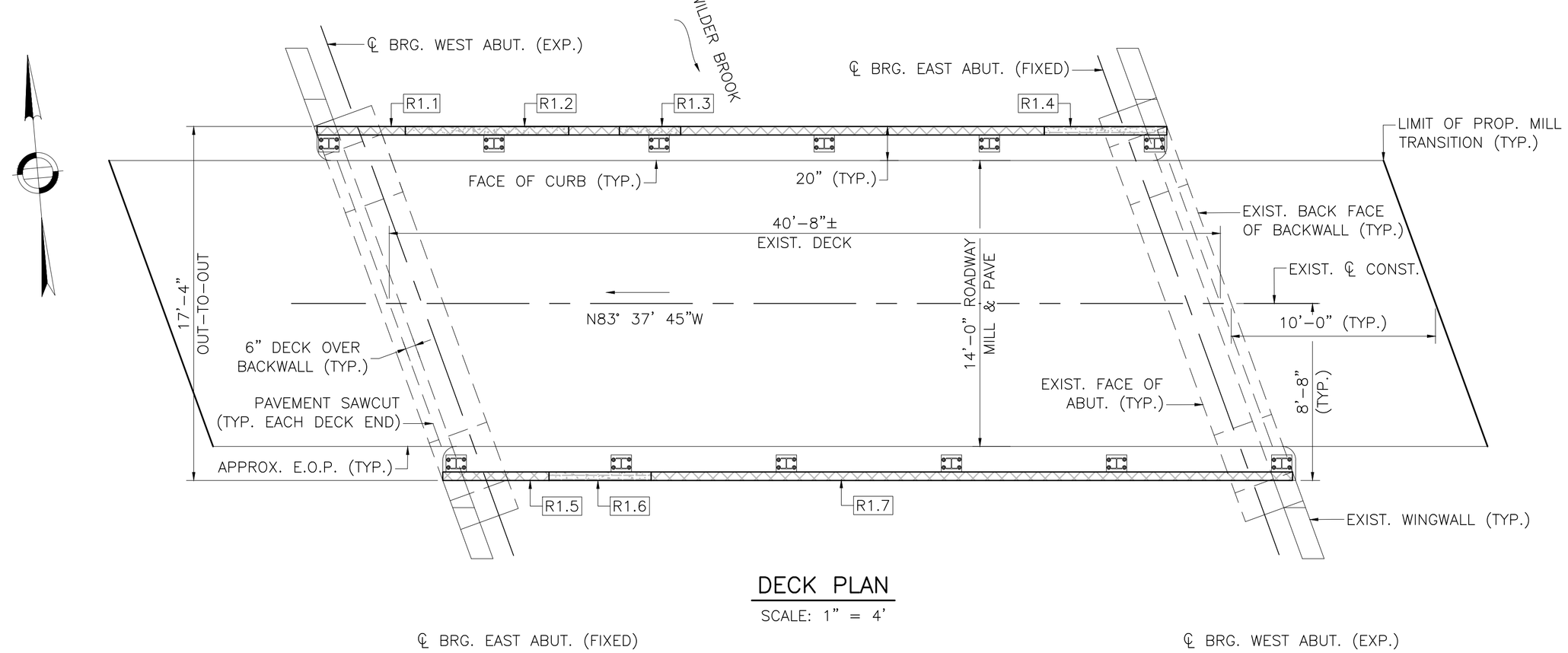
1. THE CONTRACTOR SHALL FIELD MEASURE EXISTING CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS TO ENSURE PROPER FIT OF THE REPAIR PLATES AND ANGLES.
2. ENTIRE LENGTH OF BRIDGE SEATS SHALL BE CLEANED AND ALL DEBRIS SHALL BE REMOVED FROM THE AREA. BRIDGE SEAT CLEANING SHALL BE INCIDENTAL TO ITEM NO. 961.301.
3. AREAS DESIGNATED FOR REPAIR BY THE ENGINEER SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH ITEM NO. 961.301 TO AN EXTENT 1'–0" PAST THE EXTENT OF THE REPAIR ALONG THE LENGTH OF THE DESIGNATED BEAM UNLESS OTHERWISE NOTED. SEE SPECIAL PROVISIONS.
4. SEE SHEET 18 AND 19 FOR BEAM END REPAIR AND COVER PLATE REPAIR DETAILS AND NOTES.

ESTIMATED SUPERSTRUCTURE REPAIR SUMMARY		
REPAIR TYPE	QUANTITY	REFERENCE
BEAM END REPAIRS	2502 LB	SHEET 18 – TYPE A & D
COVER PLATES	617 LB	SHEET 19 – TYPE H & I

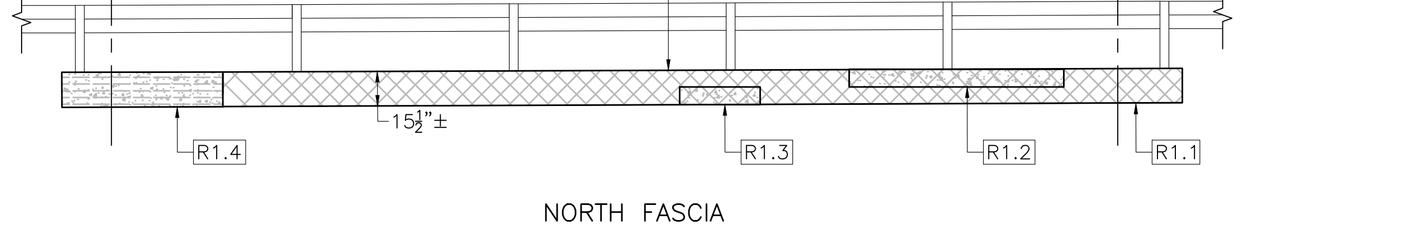
JULY 18, 2026	PS&E R2 SUBMISSION
USE ONLY PRINTS OF LATEST DATE	

A00803 - 4
Proposal No. 616282-135581
BR4_C-05-035_SUPERSTRUCTURE REPAIR SCHEDULE.DWG Plotted on 30-Jun-2026 10:23 AM
PS&E R2 Submission 30-June-2026

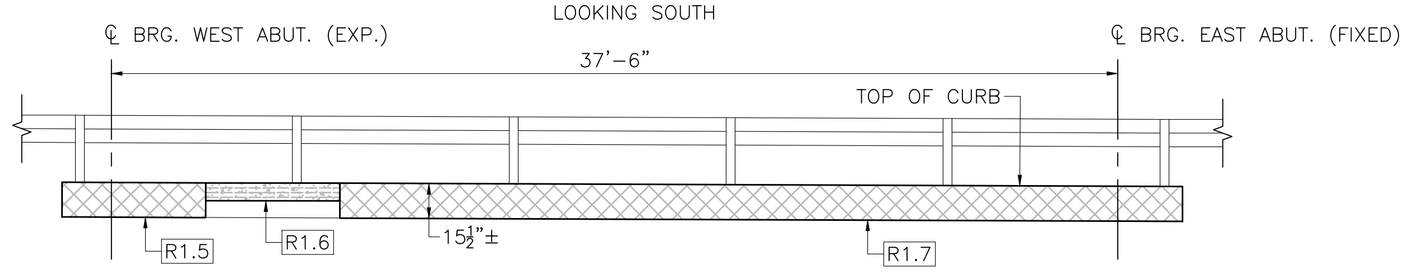
C-05-035 (0G0) BURNT HILL RD OVER WILDER BROOK
DECK REPAIR SCHEDULE



DECK PLAN
SCALE: 1" = 4'



NORTH FASCIA
LOOKING SOUTH



SOUTH FASCIA
LOOKING NORTH

FASCIA ELEVATIONS
NOT TO SCALE

DEFICIENCY LEGEND

- SCALING
- SPALLING
- SPALLING W/ EXPOSED REBAR

NOTES:

1. RAIL POST LAYOUT AND GEOMETRY IS APPROXIMATE.
2. REFER TO SHEET 12 FOR CURB REPAIR DETAILS.
3. MILL AND PAVE FULL BRIDGE ROADWAY FOOTPRINT AND TRANSITION SECTIONS ON APPROACHES. SEE DETAILS SHEET 17.
4. INSTALL PAVEMENT SAW AND SEAL JOINT ALONG DECK EDGES. SEE DETAIL SHEET 17.
5. REFER TO GENERAL NOTES FOR ADDITIONAL NOTES ON EXISTING CONDITIONS, CONCRETE REPAIRS, AND CONCRETE MIXES TO BE USED IN REPAIRS.

COPING REPAIR SCHEDULE

REPAIR NUMBER	DEFICIENCY	LENGTH (FT)	HEIGHT/WIDTH (IN)	DEPTH (IN)	REPAIR TYPE
R1.1	SCALING & SPALLING	35.9	17.5	5.0	CONCRETE COPING REPAIR (SEE SHEET 12)
R1.2	SPALLING	8.2	10.0	6.0	
R1.3	SPALLING	3.2	10.0	5.0	
R1.4	SPALLING W/ EXPOSED REBAR	6.2	17.5	5.0	
R1.5	SCALING & SPALLING	5.5	17.5	5.0	
R1.6	SPALLING W/ EXPOSED REBAR	5.2	10.0	5.0	
R1.7	SCALING & SPALLING	31.6	17.5	5.0	

ESTIMATED REPAIR SUMMARY

REPAIR TYPE	QUANTITY	
REINFORCED CONCRETE COPING EXCAVATION	2.0	CY
CONCRETE REPAIR	2.0	CY
MILL & OVERLAY	96	SY
PAVEMENT SAWCUT	30	FT

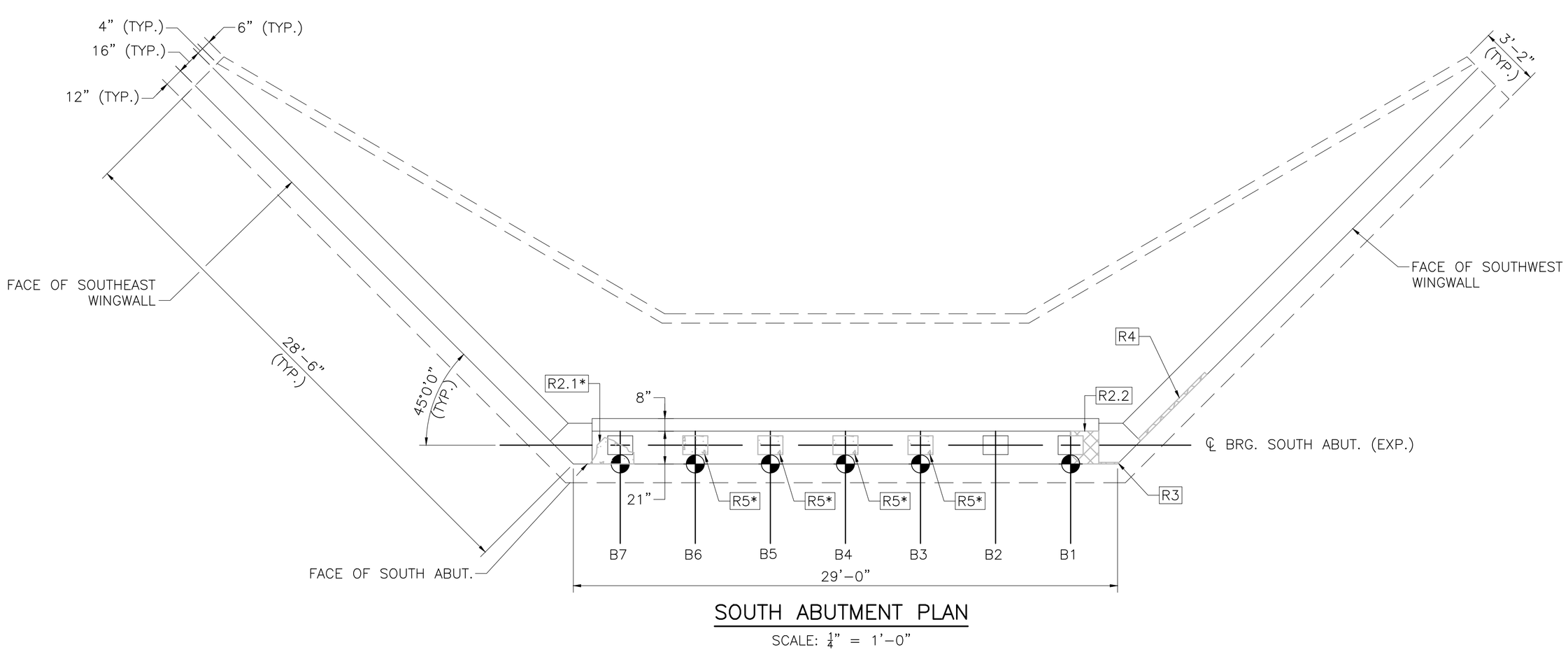
JULY 18, 2026	PS&E R2 SUBMISSION
USE ONLY PRINTS OF LATEST DATE	

A00803 - 5
Proposal No. 616282-135581
BR5_C-05-035_DECK REPAIR SCHEDULE.DWG Plotted on 30-Jun-2026 10:17 AM
PS&E R2 Submission 30-June-2026

DISTRICT 1 - MULTIPLE LOCATIONS
MULTIPLE LOCATIONS

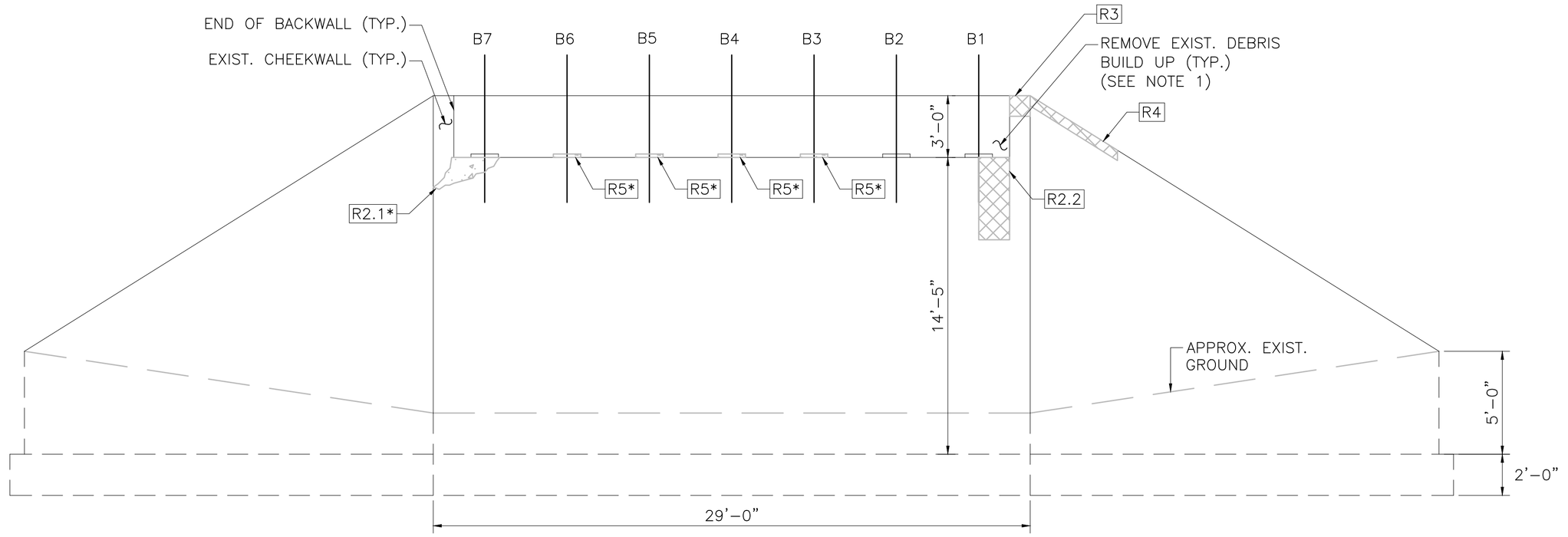
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	4	34
PROJECT FILE NO.	616282		

H-13-004 (0F8) ST 8A OVER CHICKLEY RIVER
ABUTMENT REPAIR SCHEDULE (1 OF 2)



SOUTH ABUTMENT PLAN

SCALE: $\frac{1}{4}$" = 1'-0"



SOUTH ABUTMENT ELEVATION

SCALE: $\frac{1}{4}$" = 1'-0"

DEFICIENCY LEGEND

- SPALL
- SCALING
- PROP. JACKING & SHORING LOCATION

NOTES:

1. ENTIRE LENGTH OF BRIDGE SEATS SHALL BE CLEANED AND ALL DEBRIS SHALL BE REMOVED FROM THE AREA. BRIDGE SEAT CLEANING SHALL BE INCIDENTAL TO ITEM NO. 961.202.
2. REFER TO SHEETS 9 AND 10 FOR CONCRETE REPAIR DETAILS.
3. ALL JACKING AND SHORING SYSTEMS SHALL BE CONTRACTOR DESIGNED. CONTRACTOR SHALL NOTE THAT THIS SHEET ONLY IDENTIFIES JACK AND SHORE LOCATIONS ANTICIPATED FOR BEAM SEAT AND PEDESTAL REPAIRS. SEE SHEET 6 FOR ADDITIONAL JACK AND SHORE LOCATIONS ANTICIPATED FOR SUPERSTRUCTURE REPAIR LOCATIONS. CONTRACTOR SHALL ONLY BE COMPENSATED FOR ONE JACKING AND SHORING SYSTEM PER BEAM UNDER ITEM 106.81. SEE SHEET 17 FOR JACKING AND SHORING DETAILS.
4. THE CONTRACTOR SHALL SUBMIT A JACKING PROCEDURE AND SEQUENCE FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO JACKING. ANY UNDERMINED OR DETERIORATED BEARING CONDITIONS SHALL BE STABILIZED AND REPAIRED PRIOR TO ANY SUBSTRUCTURE REPAIRS.
5. REFER TO GENERAL NOTES FOR ADDITIONAL NOTES ON EXISTING CONDITIONS, CONCRETE REPAIRS, AND CONCRETE MIXES TO BE USED IN REPAIRS.

SOUTH ABUTMENT REPAIR SCHEDULE					
REPAIR NUMBER	DEFICIENCY	WIDTH (IN)	LENGTH (IN)	DEPTH (IN)	REPAIR TYPE
R2.1*	SPALL	28.0	15.0	VARIES/TRIANGULAR	BEAM SEAT REPAIR
R2.2	SCALING	18.0	48.0	VARIES/TRIANGULAR	BEAM SEAT REPAIR
R3	SCALING	12.0	12.0	1.0	CONCRETE REPAIR
R4	SCALING	6.0	60.0	2.0	CONCRETE REPAIR
R5*	SPALL	16.0	12.0	2.0	PEDESTAL RECONSTRUCTION

*JACKING AND SHORING OF BEAM END REQUIRED BEFORE REPAIR DUE TO PROXIMITY TO BEARING. TIMING OF REPAIR SHALL BE COORDINATED WITH JACKING AND SHORING FOR BEARING RESET.

ESTIMATED REPAIR SUMMARY		
REPAIR TYPE	QUANTITY	
REINFORCED CONCRETE SUBSTRUCTURE EXCAVATION	0.30	CY
PEDESTAL RECONSTRUCTION	0.03	CY
CONCRETE REPAIR	0.04	CY
BEAM SEAT REPAIR	0.23	CY

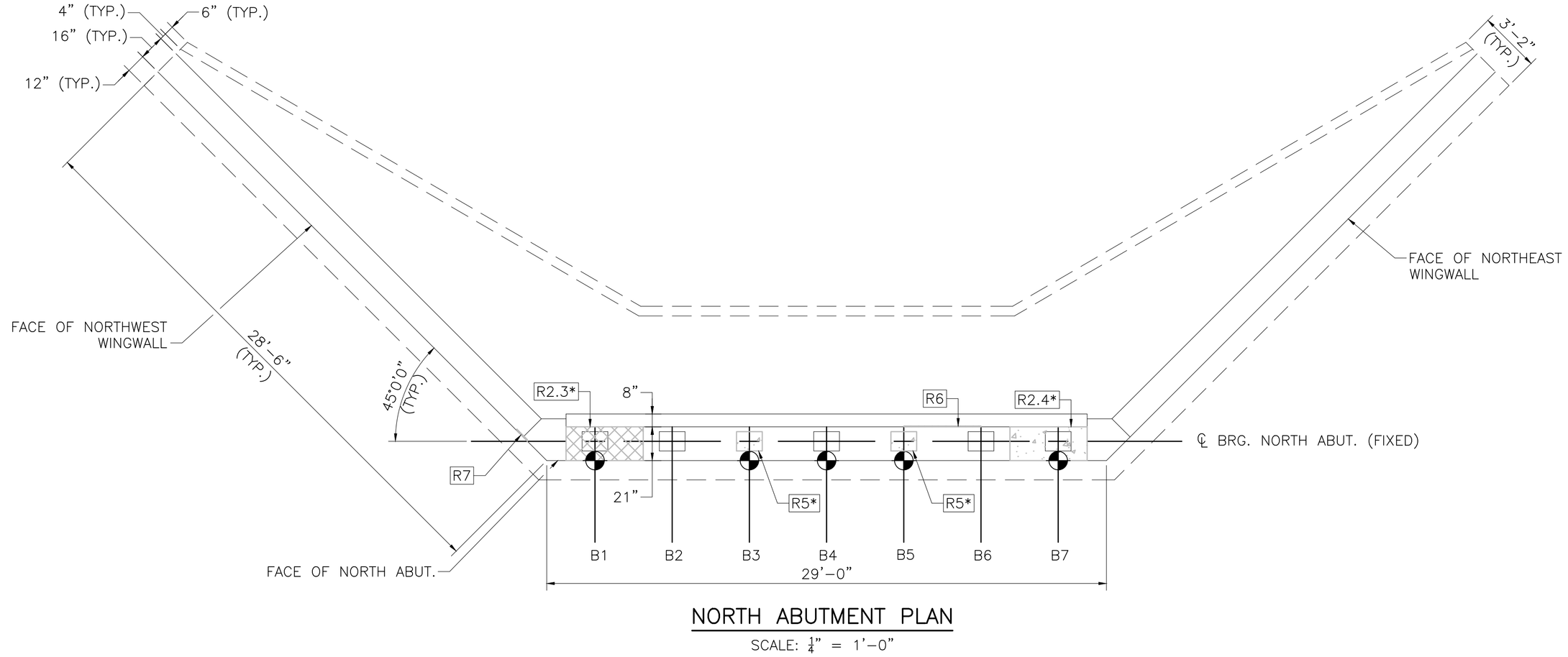
JULY 18, 2026	PS&E R2 SUBMISSION
USE ONLY PRINTS OF LATEST DATE	

BRG_H-13-004_ABUTMENT REPAIR SCHEDULE (1 OF 2).DWG Plotted on 30-Jun-2026 10:19 AM
PS&E R2 Submission 30-June-2026
Proposal No. 616282-135581

DISTRICT 1 - MULTIPLE LOCATIONS
MULTIPLE LOCATIONS

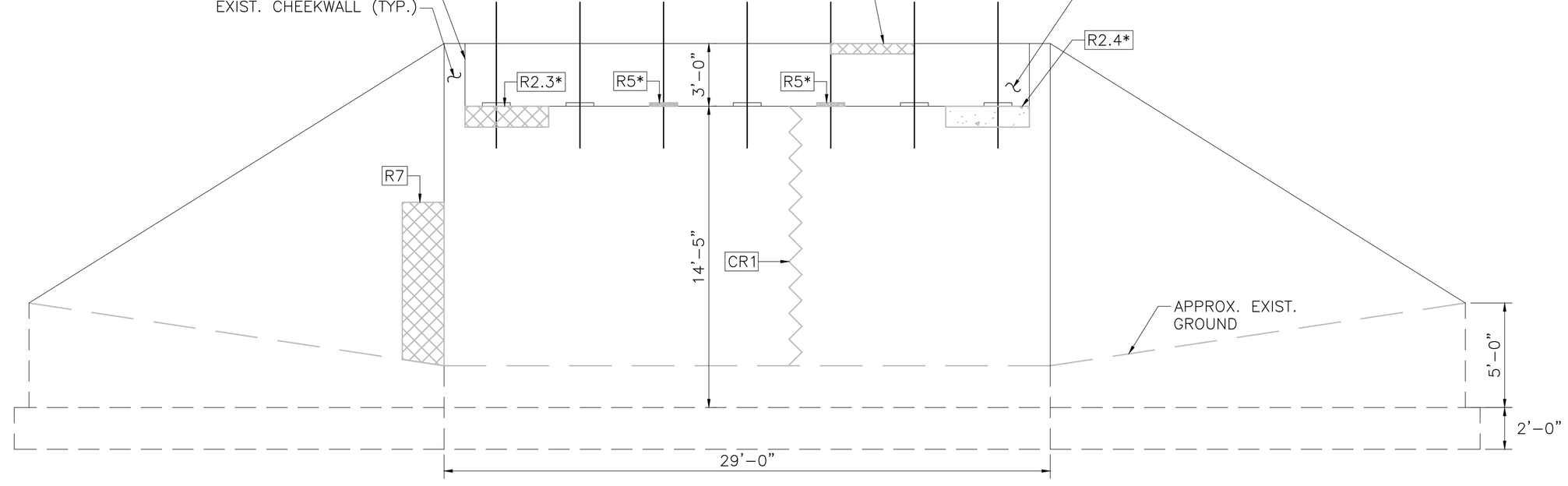
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	5	34
PROJECT FILE NO.	616282		

H-13-004 (0F8) ST 8A OVER CHICKLEY RIVER
ABUTMENT REPAIR SCHEDULE (2 OF 2)



NORTH ABUTMENT PLAN

SCALE: $\frac{1}{4}$" = 1'-0"



NORTH ABUTMENT ELEVATION

SCALE: $\frac{1}{4}$" = 1'-0"

DEFICIENCY LEGEND

- SPALL
- CRACK/MAP CRACKING
- SCALING
- PROP. JACKING & SHORING LOCATION

NOTES:

1. ENTIRE LENGTH OF BRIDGE SEATS SHALL BE CLEANED AND ALL DEBRIS SHALL BE REMOVED FROM THE AREA. BRIDGE SEAT CLEANING SHALL BE INCIDENTAL TO ITEM NO. 961.202.
2. REFER TO SHEETS 9 AND 10 FOR CONCRETE REPAIR DETAILS.
3. ALL JACKING AND SHORING SYSTEMS SHALL BE CONTRACTOR DESIGNED. CONTRACTOR SHALL NOTE THAT THIS SHEET ONLY IDENTIFIES JACK AND SHORE LOCATIONS ANTICIPATED FOR BEAM SEAT REPAIRS. CONTRACTOR SHALL ONLY BE COMPENSATED FOR ONE JACKING AND SHORING SYSTEM PER BEAM UNDER ITEM 106.88. SEE SHEET 17 FOR JACKING AND SHORING DETAILS.
4. CRACK REPAIRS SHALL BE IN ACCORDANCE WITH ITEM 107.855. SEE SPECIAL PROVISIONS FOR DIRECTION.
5. THE CONTRACTOR SHALL SUBMIT A JACKING PROCEDURE AND SEQUENCE FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO JACKING. ANY UNDERMINED OR DETERIORATED BEARING CONDITIONS SHALL BE STABILIZED AND REPAIRED PRIOR TO ANY SUBSTRUCTURE REPAIRS.
6. REFER TO GENERAL NOTES FOR ADDITIONAL NOTES ON EXISTING CONDITIONS, CONCRETE REPAIRS, AND CONCRETE MIXES TO BE USED IN REPAIRS.

NORTH ABUTMENT REPAIR SCHEDULE

REPAIR NUMBER	DEFICIENCY	WIDTH (IN)	HEIGHT/LENGTH (IN)	DEPTH (IN)	REPAIR TYPE
CR1	CRACK	0.4	149.0	–	CRACK REPAIR
R2.3*	SCALING	48.0	SEAT WIDTH L	12 (TRIANGULAR)	BEAM SEAT REPAIR
R2.4*	SPALL	48.0	SEAT WIDTH L	12 (TRIANGULAR)	BEAM SEAT REPAIR
R5*	SPALL	16.0	12.0	2.0	PEDESTAL RECONSTRUCTION
R6	SCALING	48.0	6.0	6.0	CONCRETE REPAIR
R7	SCALING	24.0	64.0	1.0	CONCRETE REPAIR

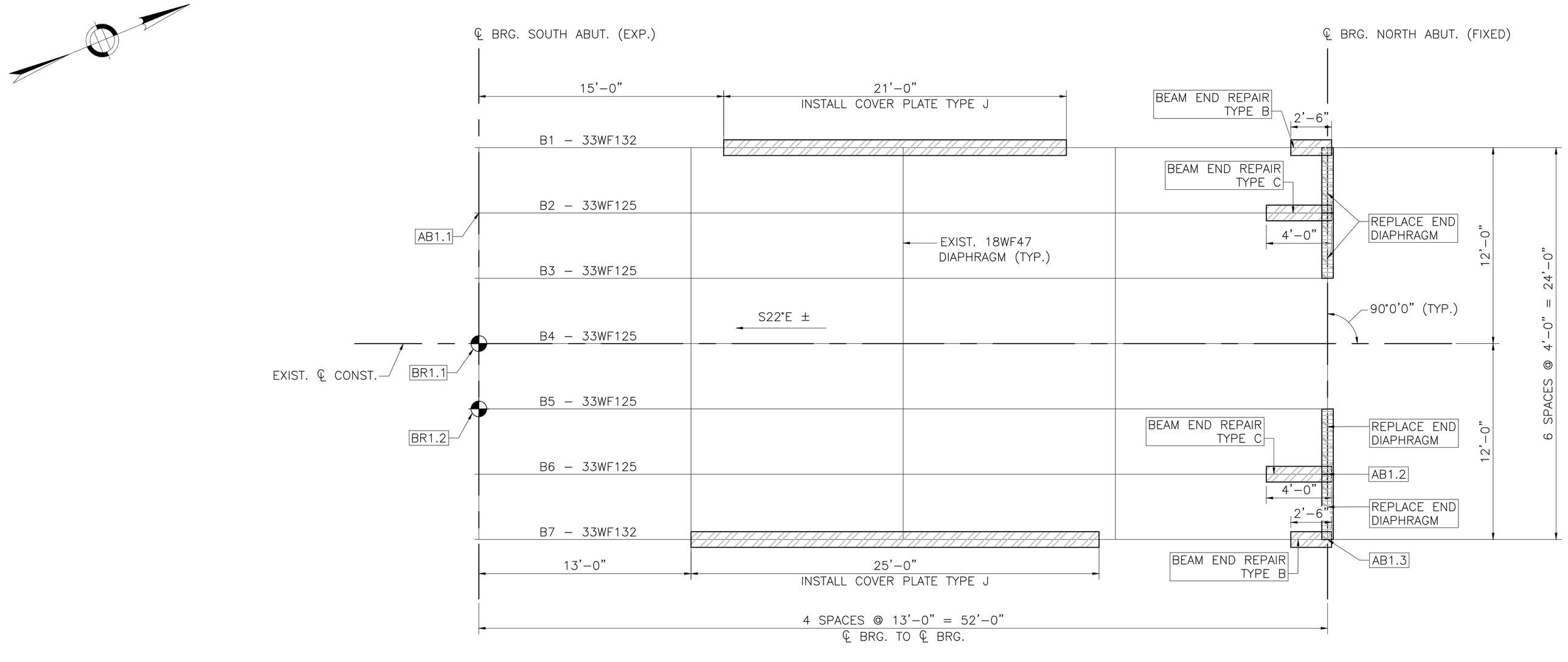
*JACKING AND SHORING OF BEAM END REQUIRED BEFORE REPAIR DUE TO PROXIMITY TO BEARING.

ESTIMATED REPAIR SUMMARY

TYPE	QUANTITY	
REINFORCED CONCRETE SUBSTRUCTURE EXCAVATION	0.43	CY
PEDESTAL RECONSTRUCTION	0.02	CY
CONCRETE REPAIR	0.12	CY
CRACK REPAIR	12.4	FT
BEAM SEAT REPAIR	0.29	CY

JULY 18, 2026	PS&E R2 SUBMISSION
USE ONLY PRINTS OF LATEST DATE	

BR7_H-13-004_ABUTMENT REPAIR SCHEDULE (2 OF 2).DWG Plotted on 30-Jun-2026 10:19 AM
Proposal No. 616282-135581
PS&E R2 Submission 30-June-2026



FRAMING PLAN

SCALE: ¼" = 1'–0"

LEGEND

- LIMITS OF STEEL REPAIRS
- DIAPHRAGM REPLACEMENT
- PROP. JACKING AND SHORING FOR BEARING RESET AND PEDESTAL/BRIDGE SEAT REPAIRS

NOTES:

1. THE ENTIRE SUPERSTRUCTURE SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH ITEM NO. 961.202. SEE SPECIAL PROVISIONS.
2. CONTRACTOR SHALL REMOVE ALL EXISTING FORMWORK AND ANY OTHER CONSTRUCTION DEBRIS FROM PREVIOUS REPAIRS.
3. THE CONTRACTOR SHALL FIELD MEASURE EXISTING CONDITIONS (DIAPHRAGMS, CONNECTION PLATES, ETC.) PRIOR TO SUBMITTING SHOP DRAWINGS TO ENSURE PROPER FIT OF THE REPAIR PLATES AND ANGLES.
4. ALL JACKING AND SHORING SYSTEMS SHALL BE CONTRACTOR DESIGNED. CONTRACTOR SHALL NOTE THAT THIS SHEET ONLY IDENTIFIES JACKING AND SHORING LOCATIONS ANTICIPATED FOR BEARING RESETS. ADDITIONAL JACKING AND SHORING LOCATIONS ANTICIPATED FOR SUBSTRUCTURE REPAIRS SHOWN ON SHEETS 4 AND 5. CONTRACTOR SHALL ONLY BE COMPENSATED FOR ONE JACKING AND SHORING SYSTEM PER LOCATION UNDER ITEM 106.88. SEE SHEET 17 FOR JACKING AND SHORING DETAILS.
5. END DIAPHRAGMS SCHEDULED FOR REPLACEMENT ARE WF18x47 HISTORIC SHAPES AND SHALL BE REPLACED WITH W18x46'S. NO INFORMATION IS AVAILABLE IN THE EXISTING PLANS REGARDING CONNECTION PLATES, BOLT SIZES, OR BOLT ARRANGEMENTS. CONTRACTOR SHALL PROCURE ALL INFORMATION NECESSARY VIA FIELD INSPECTIONS TO COMPLETE THE FABRICATION OF THESE COMPONENTS UTILIZING THE PROPOSED CONNECTION ANGLES DETAILED ON SHEET 18.

SUPERSTRUCTURE REPAIR SCHEDULE					
REPAIR NO.	BEAM NO.	LOCATION	REPAIR	ORIGINAL CONDITIONS	REPAIR DETAIL
AB1.1	2	SOUTH ABUT.	BOTH ANCHOR BOLTS	1"ø BOLT, 2'–4" LONG WITH 4" HOOK	BEAM END ANCHORAGE REPAIR (SEE SHEET 16)
AB1.2	6	NORTH ABUT.	WEST ANCHOR BOLT	1"ø BOLT, 2'–4" LONG WITH 4" HOOK	
AB1.3	7	NORTH ABUT.	BOTH ANCHOR BOLTS	1"ø BOLT, 2'–4" LONG WITH 4" HOOK	
BR1.1	4	SOUTH ABUT.	BEARING DEVICE	–	
BR1.2	5	SOUTH ABUT.	BEARING DEVICE	–	

ESTIMATED SUPERSTRUCTURE REPAIR SUMMARY		
REPAIR TYPE	QUANTITY	REFERENCE
BEAM END REPAIRS	2014 LB	SHEET 18 – TYPE B & C
DIAPHRAGM REPLACEMENT	992 LB	SHEET 18
BEAM END ANCHORAGE RETROFIT	5 EA	SHEET 16
COVER PLATES	861 LB	SHEET 19 – TYPE J

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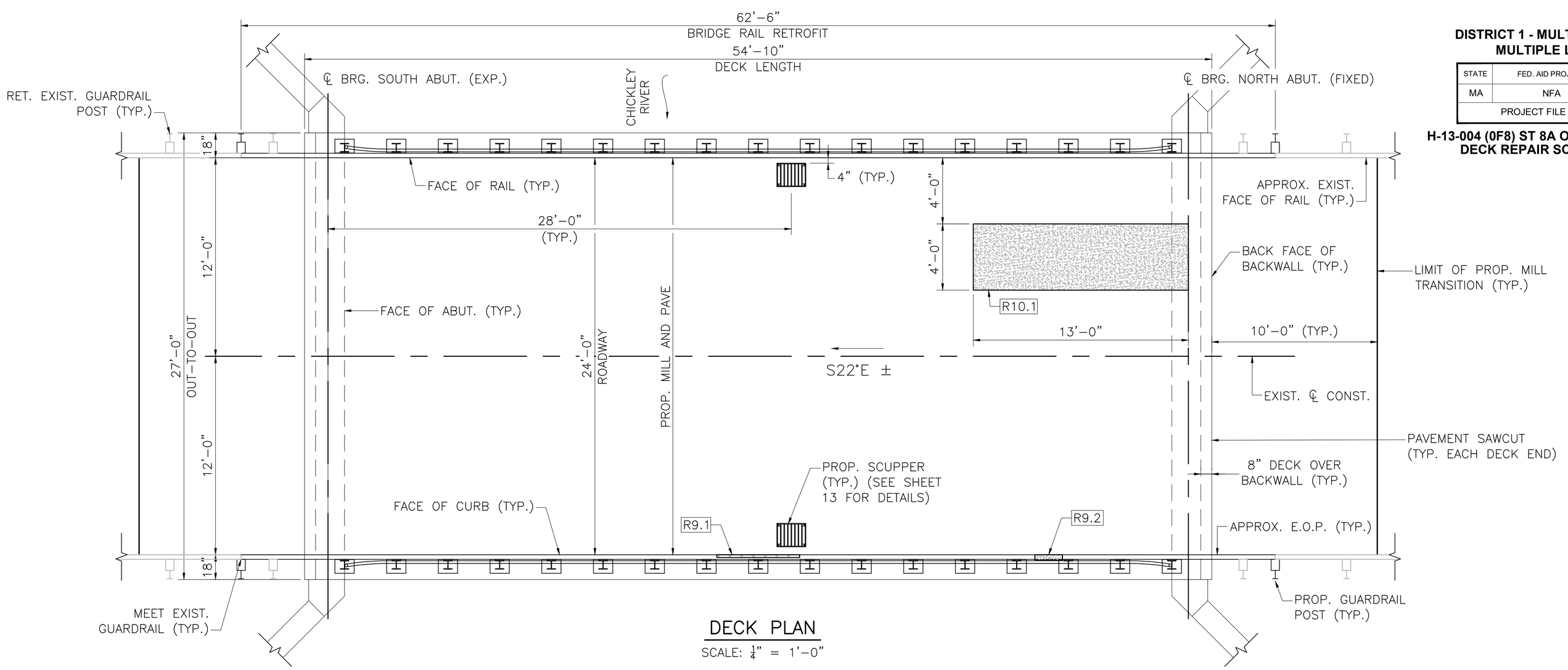
A00803 - 8
BR8_H-13-004_SUPERSTRUCTURE REPAIR SCHEDULE.DWG Plotted on 30-Jun-2026 10:22 AM
Proposal No. 616282-135581
PS&E R2 Submission 30-June-2026

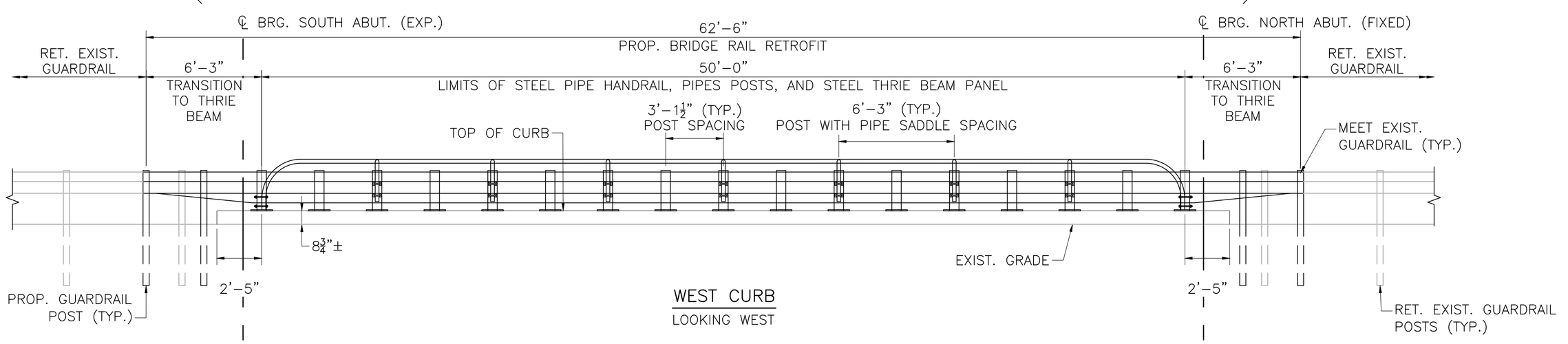
DISTRICT 1 - MULTIPLE LOCATIONS
MULTIPLE LOCATIONS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	7	34
PROJECT FILE NO.	616282		

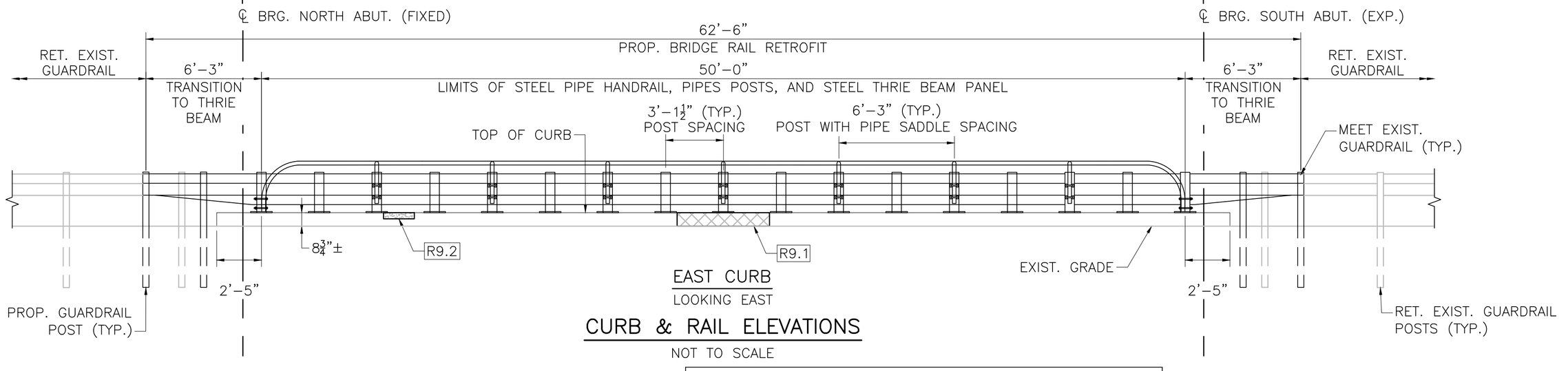
H-13-004 (0F8) ST 8A OVER CHICKLEY RIVER
DECK REPAIR SCHEDULE (1 OF 2)



DECK PLAN
SCALE: ¼" = 1'–0"



WEST CURB
LOOKING WEST



EAST CURB
LOOKING EAST

CURB & RAIL ELEVATIONS
NOT TO SCALE

DEFICIENCY LEGEND

SCALING

SPALL

NOTES:

1. THE EASTERN SIDE OF THE BRIDGE IS CURRENTLY CLOSED TO TRAFFIC VIA A CONCRETE BARRIER, CREATING A 15'–2"± WESTERLY TRAVEL LANE. COORDINATE TRAFFIC CONTROL AND REPAIR SEQUENCE WITH BARRIER REMOVAL. BEAM 6 AND 7 REPAIRS, INCLUDING CONCRETE REPAIRS OF THE SUBSTRUCTURE AT THE BEARINGS, AND THE EASTERLY CURB AND RAIL REPAIRS SHALL BE COMPLETED PRIOR TO ALLOWING TRAFFIC ON THE EASTERLY SIDE OF THE BRIDGE. SEE TRAFFIC CONTROL PLANS FOR MORE INFORMATION.
2. REFER TO SHEET 12 FOR CURB AND COPING REPAIR DETAILS.
3. REFER TO SHEET 14 FOR BRIDGE RAIL RETROFIT DETAILS. ALL EXISTING GUARDRAIL POSTS AND FACE OF RAIL LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY IN FIELD. NEW POST PLACEMENT SHALL BE A MINIMUM OF 6" AWAY FROM EXISTING POSTS. THE ENGINEER SHALL BE NOTIFIED IF THESE CONDITIONS CANNOT BE MET.
4. SCUPPER LOCATION SHOWN IS INTENDED TO RESULT IN A 2'–0" DISTANCE FROM CL OF SCUPPER TO THE CL OF THE NEAR DIAPHRAGM. ADJUST LOCATION OF SCUPPER IF FIELD LOCATED DIAPHRAGM INTERFERES WITH PLACEMENT. 6" FROM THE EDGE OF SCUPPER TO EDGE OF DIAPHRAGM FLANGE SHALL BE ACHIEVED.
5. SCUPPER LOCATIONS ARE SPECIFIED AT THE LOCATION OF EXISTING 8" DIAMETER HOLES IN THE BRIDGE DECK AND PAVEMENT.
6. MILL AND PAVE FULL BRIDGE ROADWAY FOOTPRINT AND TRANSITION SECTIONS ON APPROACHES. SEE DETAIL SHEET 17.
7. INSTALL PAVEMENT SAW AND SEAL JOINT ALONG DECK EDGES. SEE DETAIL SHEET 17.
8. CURB REPAIRS SHALL BE FULLY COMPLETE PRIOR TO INSTALLATION OF BRIDGE RAIL RETROFIT. SEE DETAILS ON SHEET 12.
9. REFER TO GENERAL NOTES FOR ADDITIONAL NOTES ON EXISTING CONDITIONS, CONCRETE REPAIRS, AND CONCRETE MIXES TO BE USED IN REPAIRS.

DECK AND CURB REPAIR SCHEDULE					
REPAIR NUMBER	DEFICIENCY	LENGTH (IN)	HEIGHT/WIDTH (IN)	DEPTH (IN)	REPAIR TYPE
R9.1	SCALING	60.0	7.0	1.0	CONCRETE CURB REPAIR
R9.2	SPALL	20.0	4.0	4.0	
R10.1	SPALL	156.0	48.0	7.0	FULL DEPTH DECK REPAIR

ESTIMATED REPAIR SUMMARY		
REPAIR TYPE	QUANTITY	
REINFORCED CONCRETE CURB EXCAVATION	0.03	CY
REINFORCED CONCRETE DECK EXCAVATION	5.78	SY
CONCRETE CURB REPAIR	0.03	CY
CONCRETE DECK REPAIR	1.12	CY
BRIDGE RAIL RETROFIT	125.0	FT
MILL & OVERLAY	199.6	SY
PAVEMENT SAWCUT	48.0	FT

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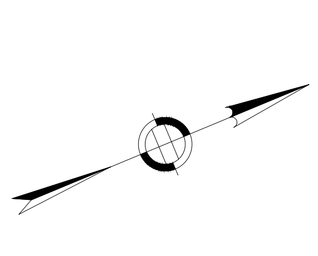
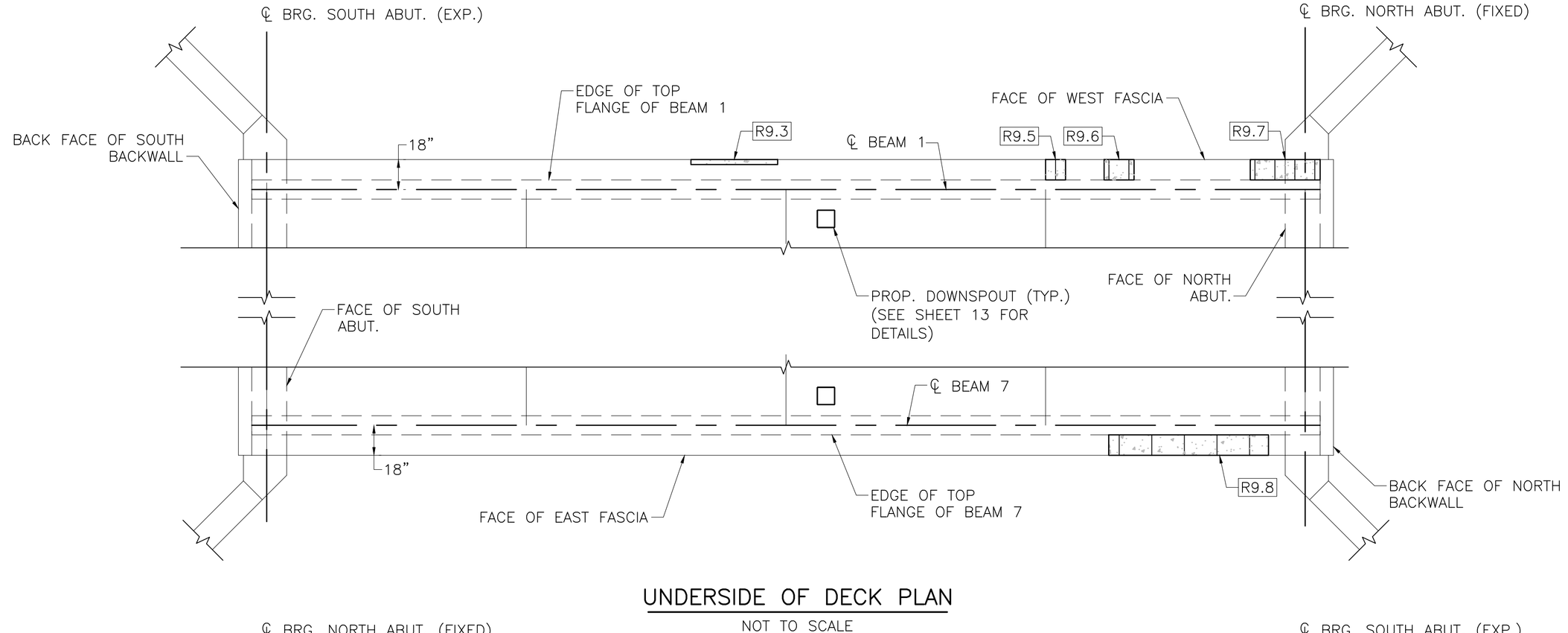
Proposal No. 616282-135581

DISTRICT 1 - MULTIPLE LOCATIONS
MULTIPLE LOCATIONS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	8	34
PROJECT FILE NO.	616282		

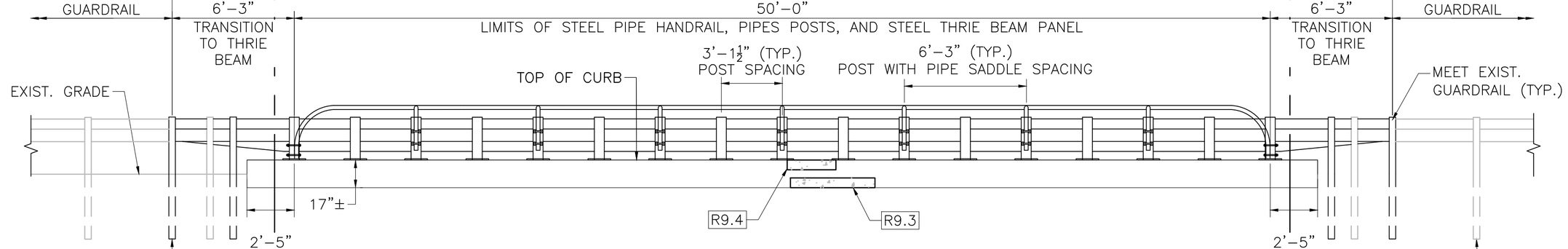
H-13-004 (0F8) ST 8A OVER CHICKLEY RIVER
DECK REPAIR SCHEDULE (2 OF 2)



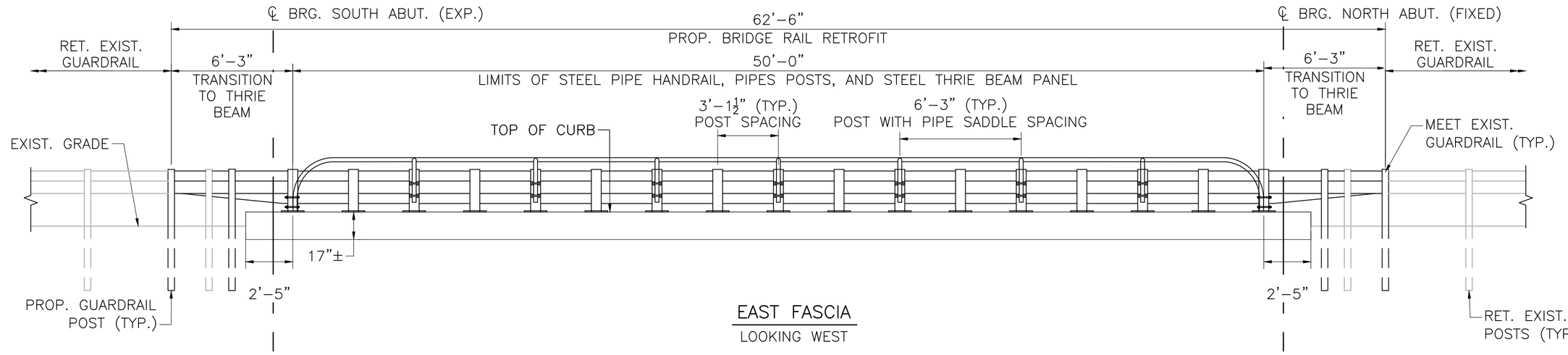


UNDERSIDE OF DECK PLAN

NOT TO SCALE



WEST FASCIA
LOOKING EAST



EAST FASCIA
LOOKING WEST

FASCIA ELEVATIONS

NOT TO SCALE

DEFICIENCY LEGEND

SPALL

SPALL W/ EXPOSED REBAR

NOTES:

1. REFER TO SHEET 12 FOR CURB AND COPING REPAIR DETAILS.

COPING REPAIR SCHEDULE					
REPAIR NUMBER	DEFICIENCY	LENGTH (IN)	HEIGHT/WIDTH (IN)	DEPTH (IN)	REPAIR TYPE
R9.3	SPALL	52.0	6.0	2.0	CONCRETE COPING REPAIR (SEE SHEET 12)
R9.4	SPALL	30.0	6.0	4.0	
R9.5	SPALL W/ EXPOSED REBAR	9.0	12.0	3.0	
R9.6	SPALL W/ EXPOSED REBAR	18.0	12.0	3.0	
R9.7	SPALL W/ EXPOSED REBAR	42.0	12.0	3.0	
R9.8	SPALL W/ EXPOSED REBAR	96.0	12.0	3.0	

ESTIMATED REPAIR SUMMARY		
DEFICIENCY	QUANTITY	
REINFORCED CONCRETE COPING EXCAVATION	0.24	CY
CONCRETE REPAIR	0.24	CY

JULY 18, 2026	PS&E R2 SUBMISSION
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Proposal No. 616282-135581
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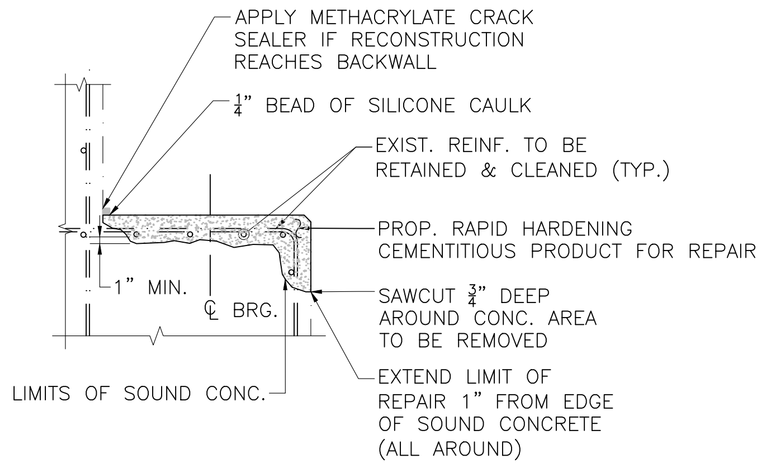


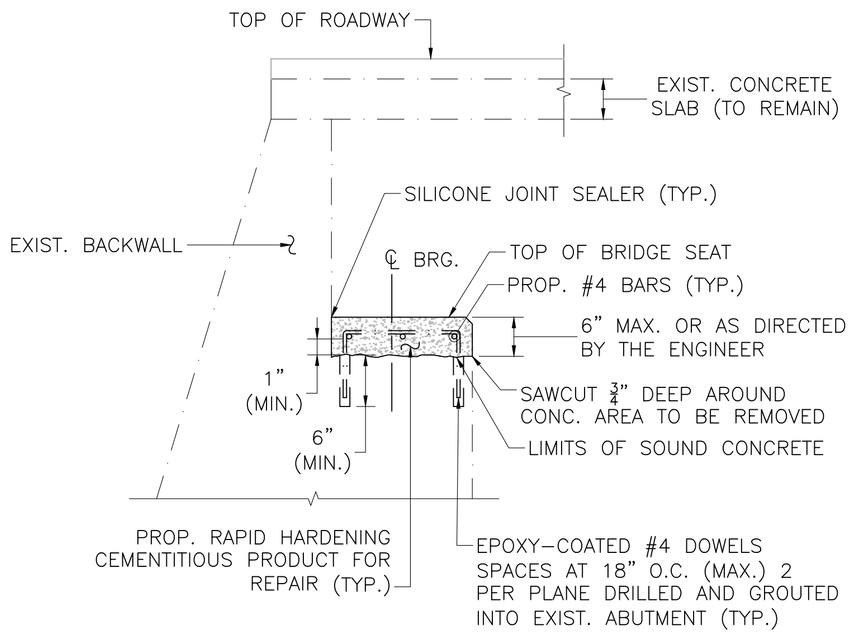
NOTE:
THIS DETAIL IS PROVIDED IN THE EVENT DETERIORATION IS IDENTIFIED AWAY FROM THE BEARING LOCATIONS UPON CLEANING OF BRIDGE SEATS FOR BRIDGE C–05–035. ALL TYPICAL EXCAVATION AND SURFACE PREP. NOTES APPLY.

C–05–035 BEAM SEAT REPAIR DETAIL

SCALE: ¾" = 1'–0"

GENERAL SUBSTRUCTURE REPAIR NOTES:

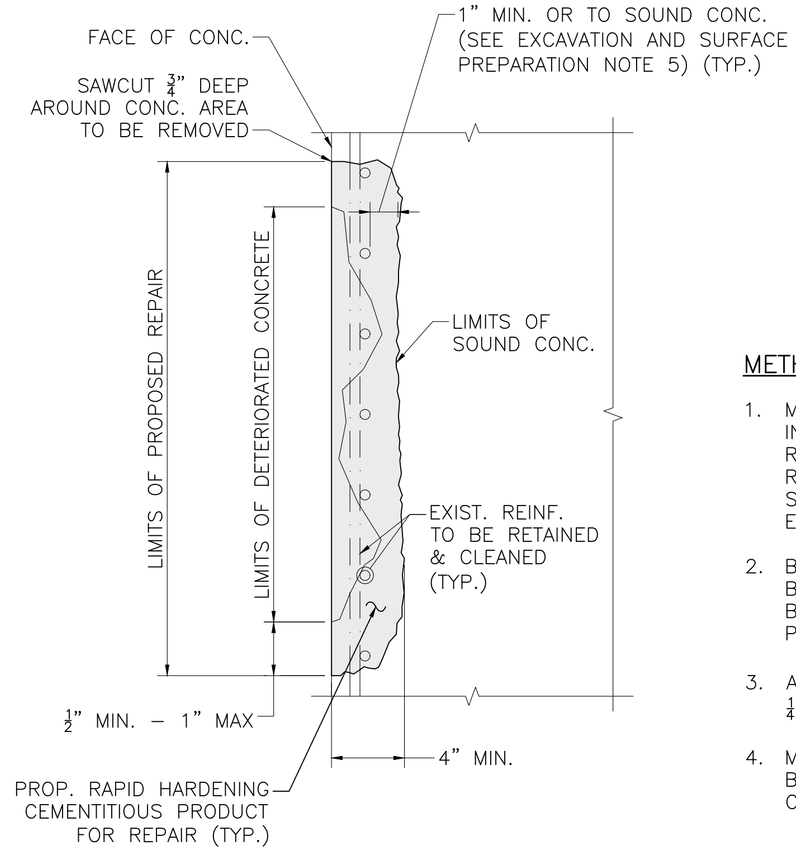
1. THE CONTRACTOR SHALL STAGE THE WORK SO THAT SUBSTRUCTURE SECTIONS IN POOREST CONDITION ARE REPAIRED FIRST, AS APPROVED BY THE ENGINEER.
2. THE CONTRACTOR SHALL PROVIDE A TEMPORARY SHORING SYSTEM TO FULLY SUPPORT BEAM ENDS DURING ANY CONCRETE REPAIRS WITHIN THE BEARING ZONE OR BEARING RESETS WHERE CALLED FOR ON THE PLANS AND AS DIRECTED BY THE ENGINEER. ALL TEMPORARY SHORING SYSTEMS SHALL BE DESIGNED BY THE CONTRACTOR. THE TEMPORARY SHORING SYSTEM SHALL BE INSTALLED PRIOR TO PERFORMING REPAIRS.
3. CONTRACTOR SHALL IMMEDIATELY HALT CONCRETE EXCAVATION IN THE VICINITY OF AN ENGAGED BEARING IF THE LENGTH OF UNDERMINING BELOW THE MASONRY PLATE EXCEEDS 2 INCHES IN EITHER DIRECTION (WITH EXCEPTION OF THE AREAS ALREADY NOTED AS UNDERMINED IN THESE PLANS). THE ENGINEER SHALL BE NOTIFIED TO EVALUATE THE NEED FOR TEMPORARY SHORING OF THE BEAM END BEFORE EXCAVATION IS RESUMED.



NOTE:
THIS DETAIL IS PROVIDED IN THE EVENT DETERIORATION IS IDENTIFIED AWAY FROM THE BEARING LOCATIONS UPON CLEANING OF BRIDGE SEATS FOR BRIDGE H–13–004. ALL TYPICAL EXCAVATION AND SURFACE NOTES APPLY.

H–13–004 BEAM SEAT REPAIR DETAIL

SCALE: ¾" = 1'–0"



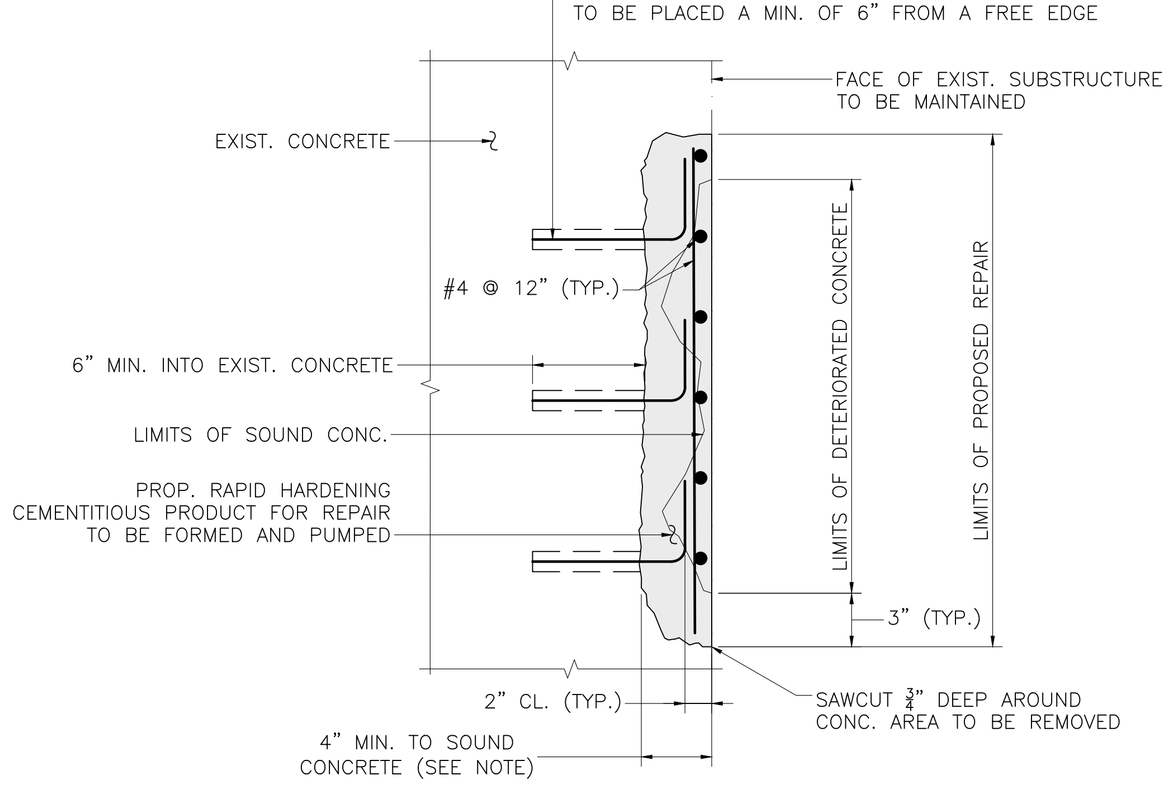
NOTE:
IF THERE IS LESS THAN 1½" CONCRETE COVER, THEN THE CONTRACTOR SHALL BUILD OUT THE FORM TO ENSURE A MINIMUM OF 1½" COVER.

PARTIAL DEPTH SUBSTRUCTURE REPAIR

SCALE: 1½" = 1'–0"

METHACRYLATE SEALING NOTES:

1. METHACRYLATE CRACK SEALER SHALL BE APPLIED TO THE INTERFACE OF THE BACKWALL AND BEAM SEAT AFTER THE REPAIR CURING PERIOD IS COMPLETE AND IN ACCORDANCE WITH REQUIREMENTS OF MANUFACTURER AND THE STANDARD SPECIFICATIONS IN ALL INSTANCES WERE CONCRETE REMOVAL EXTENDS TO THE FRONT FACE OF BACKWALL.
2. BEFORE SEALING, THE CONCRETE AT THE INTERFACE OF THE BACKWALL AND BEAM SEAT SHALL BE BRUSHED CLEAN AND BLOWN OFF USING OIL FREE COMPRESSED AIR IMMEDIATELY PRIOR TO APPLYING THE SEALER.
3. APPLY ¼" HIGH BEAD OF SILICONE CAULKING COMPOUND ABOUT ¼" FROM THE FACE OF THE BACKWALL.
4. METHACRYLATE SHALL THEN BE POURED INTO THE ¼" WIDE GAP BETWEEN THE FACE OF THE BACKWALL AND THE BEAD OF CAULK.



UNREINFORCED CONCRETE REPAIR DETAIL

SCALE: 1" = 1'–0"

NOTE:
MAXIMUM CONCRETE REMOVAL DEPTH SHALL BE 4" WITHIN THE TOP 6" OF THE BACKWALL. DOWEL EMBEDMENT SHALL BE LIMITED TO 3" IN THE TOP 6" OF THE BACKWALL TO PREVENT DOWELS FROM PUNCHING THROUGH. NOTIFY ENGINEER IF ADDITIONAL REMOVAL IS REQUIRED.

EXCAVATION AND SURFACE PREPARATION NOTES:

1. THE CONTRACTOR SHALL EXERCISE CARE WHEN REMOVING CONCRETE AROUND REINFORCEMENT TO ONLY REMOVE DETERIORATED CONCRETE AND TO LIMIT THE SOUND CONCRETE REMOVED TO THE MINIMUM NECESSARY TO EFFECT A GOOD REPAIR.
2. THE CONTRACTOR SHALL ESTABLISH LIMITS OF VARIOUS REPAIRS AS SHOWN ON THE PLANS AND AT THE DIRECTION OF THE ENGINEER. THE LOCATIONS SHOWN ON THE PLANS ARE BASED UPON RECORDS OF BRIDGE INSPECTIONS AND FIELD INSPECTIONS AND ARE NOT GUARANTEED. THE LOCATION AND EXTENT OF ALL CONCRETE REPAIRS ARE TO BE FIELD VERIFIED AND APPROVED BY THE ENGINEER AFTER THE CONTRACTOR HAS SOUNDED AND MARKED OUT REPAIR AREAS. REPAIR CONFIGURATIONS SHOULD BE KEPT AS SIMPLE AS POSSIBLE, PREFERABLY WITH SQUARE CORNERS.
3. THE LIMITS OF THE REPAIRS SHALL BE SAWCUT ALONG NEAT LINES TO A DEPTH OF ¾" TO PRODUCE A CLEAN EDGE.
4. THE CONTRACTOR SHALL EXCAVATE A MINIMUM ½" AND MAXIMUM 1" OF SOUND CONCRETE IN EACH LATERAL DIRECTION BEYOND THE LIMITS OF DETERIORATED CONCRETE UNLESS APPROVED BY THE ENGINEER.
5. MINIMUM DEPTH OF EXCAVATION TO SOUND CONCRETE SHALL BE 1" BEYOND THE INNER MOST LAYER OF REINFORCING STEEL. THE CONTRACTOR SHALL STOP REMOVING DETERIORATED CONCRETE WHEN A MAXIMUM DEPTH OF 6 IN. IS REACHED. THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED IF SOUND CONCRETE IS NOT ENCOUNTERED AT THIS LIMIT.
6. EXPOSED REINFORCEMENT IS TO BE CLEANED BY MECHANICAL CLEANING AND HIGH PRESSURE WASHING WITH WATER THAT CONTAINS NO DETERGENTS OR BOND INHIBITING CHEMICALS. WHERE ACTIVE CORROSION HAS OCCURRED (THAT WHICH WOULD INHIBIT BONDING), STEEL SHALL BE SANDBLASTED TO SSPC–SP5.
7. MISSING OR DETERIORATED REINFORCING STEEL SHALL BE REPLACED AS DIRECTED BY THE ENGINEER FOLLOWING THE TYPICAL DETERIORATED REINFORCING STEEL DETAIL ON SHEET 11. MATCH BAR SIZE AND PLACE ALONGSIDE EXISTING SPLICED REINFORCEMENT.
8. AFTER REMOVAL AND EDGE PREPARATION ARE COMPLETE, REMOVE BOND INHIBITING MATERIALS (DIRT, GREASE, LOOSELY BONDED AGGREGATE) BY ABRASION BLASTING OR HIGH PRESSURE WATER BLASTING WITH WATER THAT CONTAINS NO DETERGENTS OR BOND INHIBITING CHEMICALS. CHECK THE CONCRETE SURFACES AFTER CLEANING TO ENSURE THAT THE SURFACE IS FREE FROM ADDITIONAL LOOSE AGGREGATE OR THAT ADDITIONAL DELAMINATIONS ARE NOT PRESENT.
9. IF, DURING REMOVAL OF DETERIORATED CONCRETE, THE CONTRACTOR DAMAGES EXISTING REINFORCEMENT TO THE EXTENT REQUIRING REPLACEMENT, ANY ADDITIONAL CONCRETE REMOVAL, PATCHING MATERIAL, CLEARING OF EXISTING REINFORCING STEEL, AND FURNISHING AND INSTALLING REPLACEMENT STEEL AT THAT LOCATION SHALL BE AT THE CONTRACTOR'S EXPENSE.
10. PRESOAK CONCRETE SUBSTRATE WITH POTABLE WATER FOR A MINIMUM OF 24 HOURS. AT TIME OF REPAIR CONCRETE PLACEMENT, SUBSTRATE SHALL BE SATURATED SURFACE DRY WITH NO STANDING WATER.
11. ALL SURFACES SHALL BE RUBBED TO PRODUCE A SMOOTH FINISH TO MATCH EXISTING ADJACENT SURFACES.

DISTRICT 1 - MULTIPLE LOCATIONS
MULTIPLE LOCATIONS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	9	34
PROJECT FILE NO.	616282		

CONSTRUCTION DETAILS
SUBSTRUCTURE REPAIR DETAILS (1 OF 2)

JULY 18, 2026	PS&E R2 SUBMISSION
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BR15-19_SUBSTRUCTURE REPAIR DETAILS.DWG Plotted on 30-Jun-2026 10:19 AM
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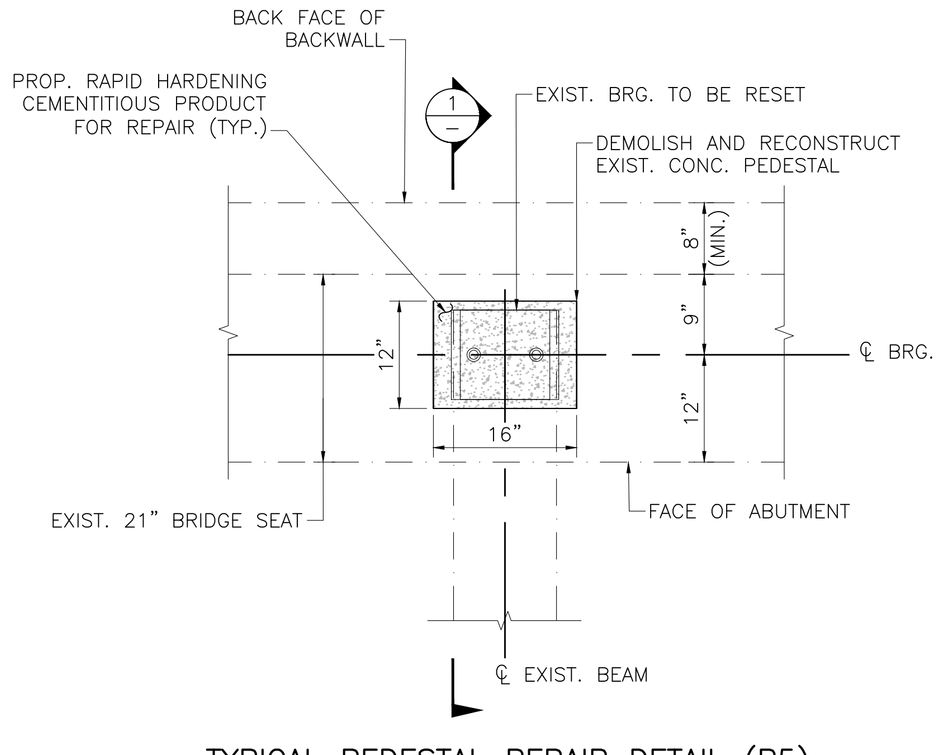
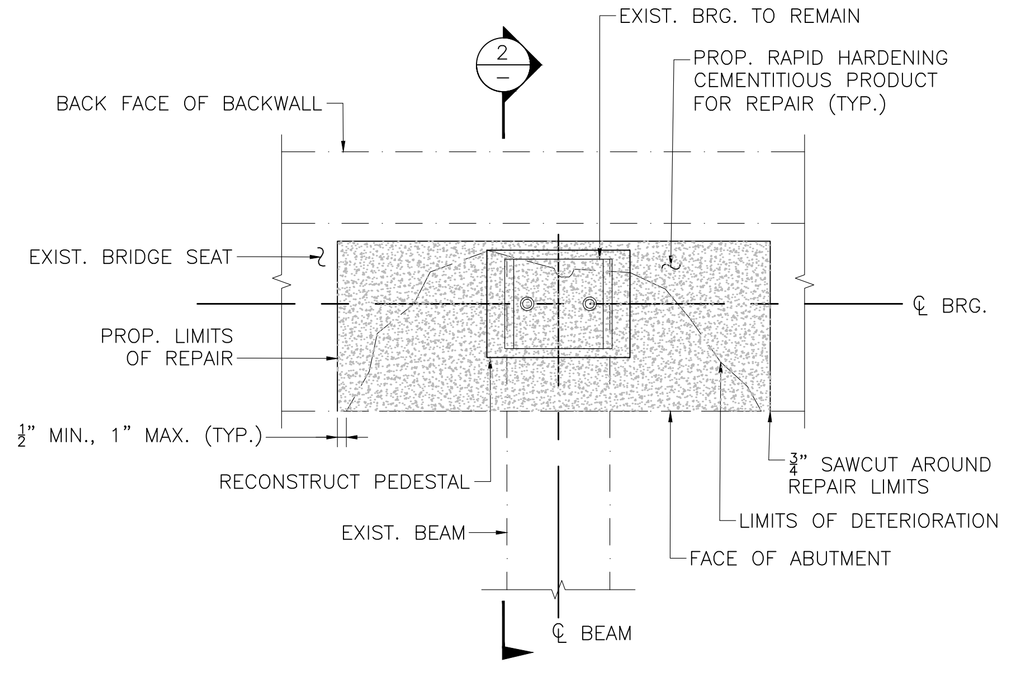


TYPICAL PEDESTAL REPAIR DETAIL (R5)
BRIDGE H–13–004

SCALE: 1" = 1'–0"



R2.1 – R2.4 UNDERMINING REPAIR DETAIL
BRIDGE H–13–004

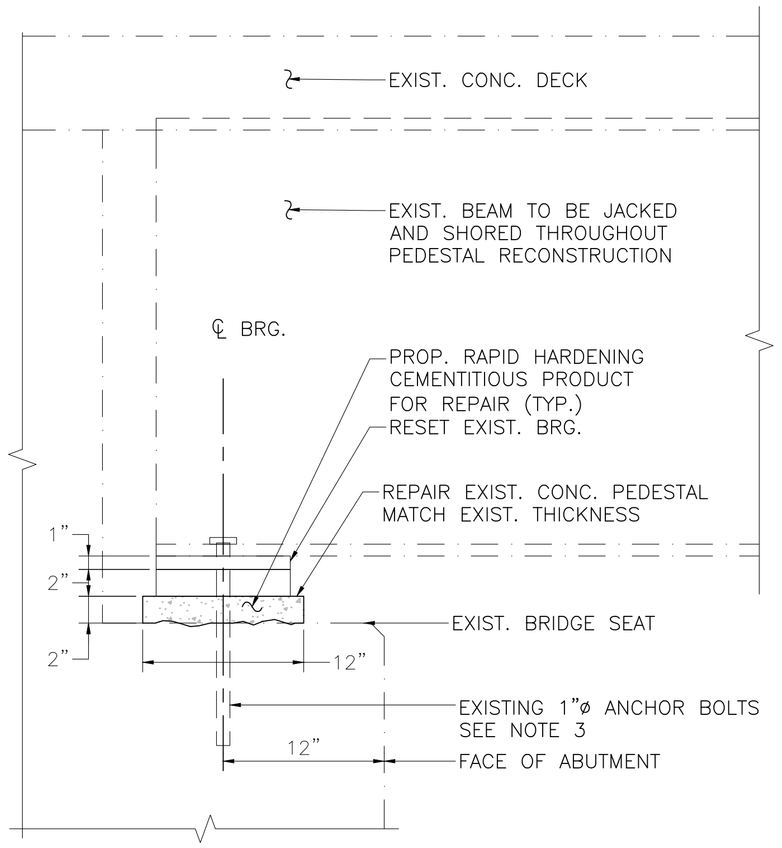
SCALE: 1" = 1'–0"

PEDESTAL REPAIR SEQUENCE NOTES:

1. THE CONTRACTOR SHALL SUBMIT A PROPOSED JACKING AND SHORING PLAN FOR APPROVAL. THE CONTRACTOR SHALL NOT WORK ON THE CONCRETE PEDESTALS UNTIL THE PROPOSED PLAN IS APPROVED AND COMPLETED IN PLACE.
2. CONTRACTOR SHALL STAGE THE WORK SO THAT ALL PEDESTALS ON AN INDIVIDUAL ABUTMENT ARE REPLACED AT ONCE.
3. CONTRACTOR SHALL STOP CONCRETE REMOVAL IF DETERIORATED CONCRETE EXTENDS MORE THAN 1" INTO THE BEAM SEAT FOR PEDESTAL REPAIRS (DOES NOT INCLUDE DESIGNATED UNDERMINED BEARING REPAIR AREAS) AND CONTACT THE ENGINEER FOR DIRECTION.

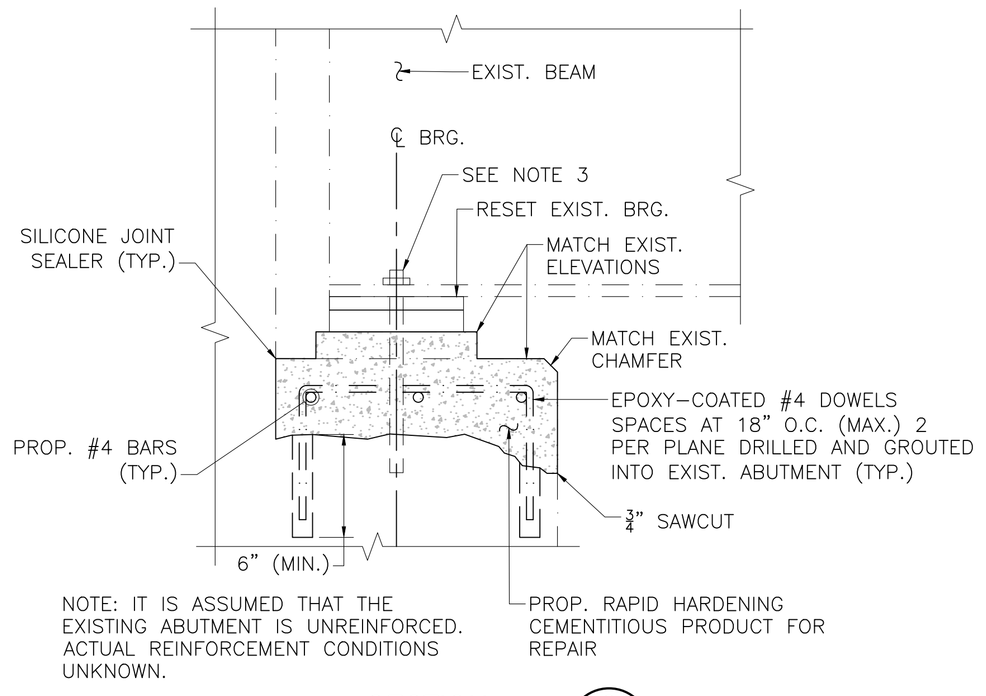
PEDESTAL AND BEAM SEAT REPAIR NOTES:

1. TOP OF PEDESTAL ELEVATIONS SHALL MATCH EXISTING. CONTRACTOR SHALL CONFIRM EXISTING CONDITIONS.
2. PEDESTAL AND BEAM SEAT REPAIRS SHALL BE PERFORMED ONCE THE APPROVED JACKING AND SHORING SYSTEM IS INSTALLED AT THE BEAM ENDS.
3. EXISTING BEARING ANCHOR BOLTS SHALL BE RETAINED AND CLEANED IF ENCOUNTERED DURING CONCRETE REMOVAL. CONTRACTOR SHALL REPLACE BEARING ANCHOR BOLTS EXHIBITING SECTION LOSS AT THE DIRECTION OF THE ENGINEER. CONTRACTOR SHALL BE COMPENSATED UNDER ITEM 960.92 FOR EACH BEAM END AND ANCHORAGE REPAIR.
4. ALL EXCAVATION AND SURFACE PREPARATION NOTES PROVIDED ON SHEET 9 SHALL APPLY.



NOTE: EXIST. REINF. NOT SHOWN FOR CLARITY. PEDESTAL IS ASSUMED TO BE UNREINFORCED.

SECTION 1 – (1½" = 1'–0")



NOTE: IT IS ASSUMED THAT THE EXISTING ABUTMENT IS UNREINFORCED. ACTUAL REINFORCEMENT CONDITIONS UNKNOWN.

SECTION 2 – (1½" = 1'–0")

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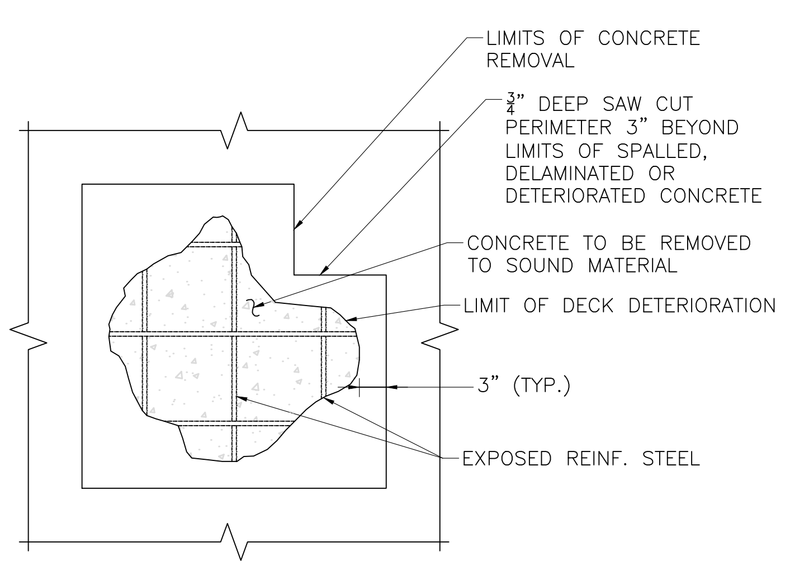
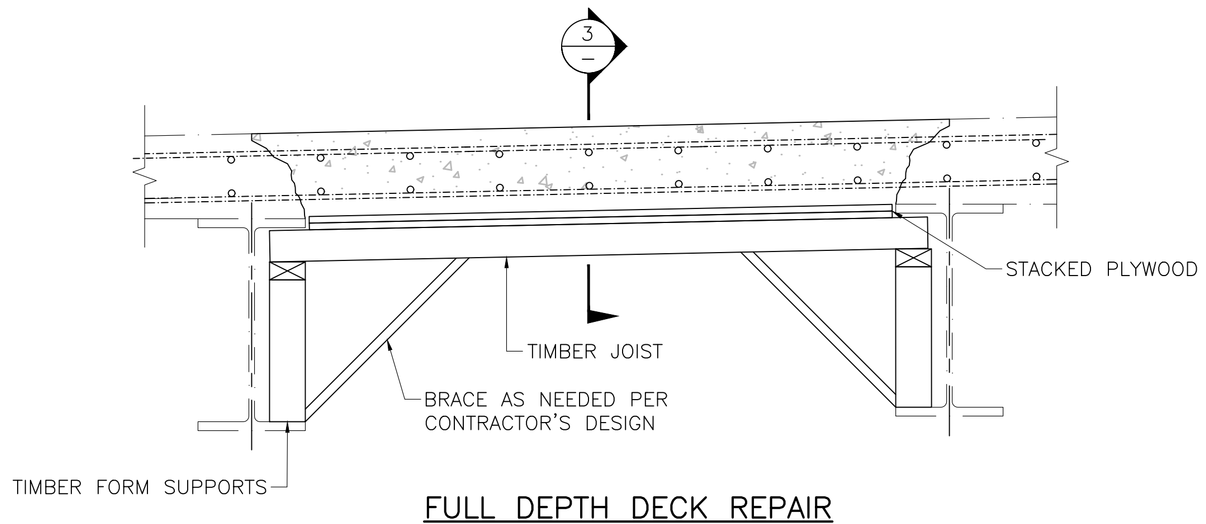


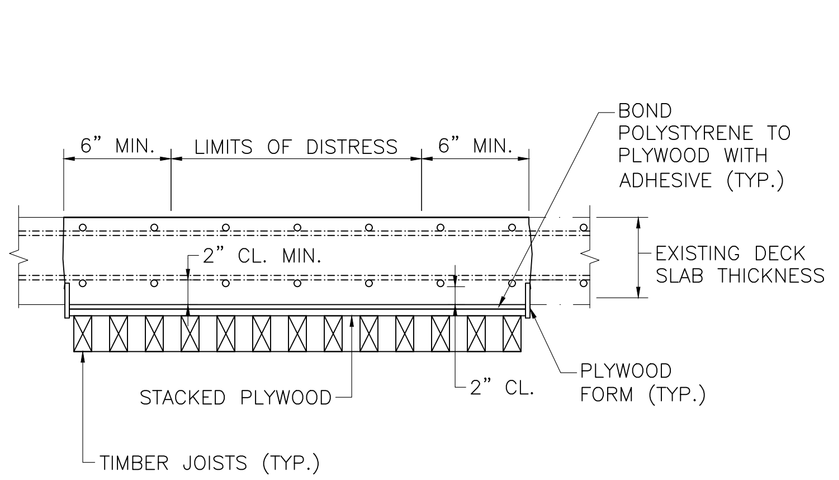
LIMITS OF DECK REPAIR AREA
SCALE: 1" = 1'-0"



FULL DEPTH DECK REPAIR
SCALE: 1" = 1'-0"

FULL DEPTH DECK REPAIR SEQUENCE NOTES:

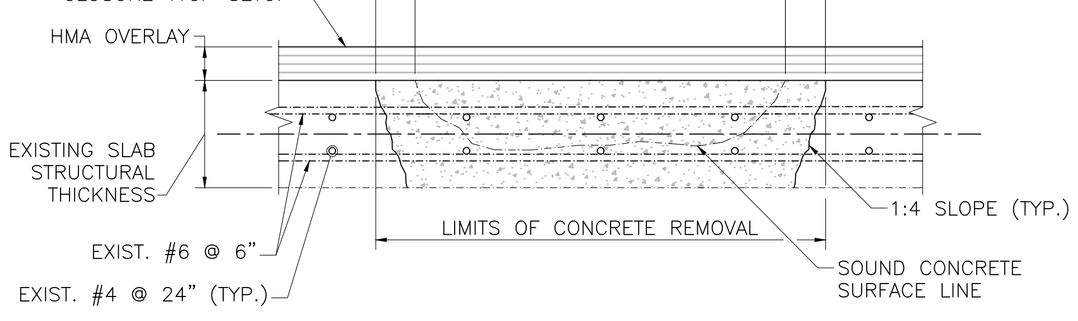
1. FULL DEPTH DECK REPAIRS SHALL BE CONSTRUCTED DURING THE ASSOCIATED LANE CLOSURE SETUP DETAILED IN THE TEMPORARY TRAFFIC CONTROL PLANS. ALL EXISTING HOT MIX ASPHALT WEARING SURFACE AND MEMBRANE WATERPROOFING MATERIAL SHALL BE REMOVED PRIOR TO PERFORMING DECK REPAIRS. THE EXPOSED DECK SURFACE SHALL BE INSPECTED BY THE ENGINEER TO DETERMINE APPROXIMATE LIMITS OF REPAIR. IN ADDITION AREAS OF THE UNDERSIDE WITH EVIDENCE OF DETERIORATION SHALL BE SOUNDED IN THE PRESENCE OF THE CONTRACTOR AND THE ENGINEER TO IDENTIFY AREAS IN NEED OF FULL DEPTH REPAIRS.
2. THE TOP SURFACE OF THE DECK REPAIRS SHALL BE FINISHED FLUSH WITH THE ADJACENT TOP OF DECK SLAB AND SHALL MAINTAIN THE EXISTING GRADES AND CROSS SLOPES.
3. UPON COMPLETION OF EACH STAGE OF DECK REPAIRS, THE DECK SHALL BE ABRASIVELY BLAST CLEANED AND MEMBRANE WATERPROOFING SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIAL PROVISIONS, FOLLOWED BY PLACEMENT OF THE HOT MIX ASPHALT WEARING SURFACE.



SECTION 3 / –
SCALE: 1" = 1'-0"

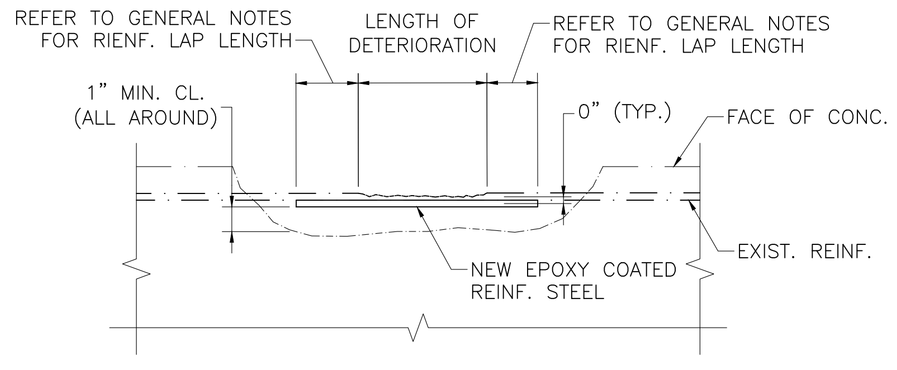
BRIDGE DECK REPAIR NOTES:

1. SPALLED, DELAMINATED, AND DETERIORATED CONCRETE DECK AREAS SHALL BE REPAIRED USING AN APPROVED RAPID HARDENING CEMENTITIOUS PRODUCT FOR REPAIR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING REINFORCING STEEL AND CONCRETE SURFACES THAT ARE TO BE IN CONTACT WITH REPAIR CONCRETE SHALL BE ABRASIVELY BLAST CLEANED IN ORDER TO REMOVE ALL RUST, OIL, AND DEBRIS THAT IS NOT TIGHTLY ADHERED, FOLLOWED BY APPLICATION OF COMPRESSED AIR TO REMOVE ALL DUST. EXISTING CONCRETE REPAIR SURFACES THAT WILL BE IN CONTACT WITH REPAIR CONCRETE SHALL BE PRE-WETTED FOR A MINIMUM OF 24 HOURS USING POTABLE WATER IN ORDER TO ACHIEVE A SATURATED SURFACE DRY CONDITION IMMEDIATELY PRIOR TO PLACEMENT OF REPAIR CONCRETE
3. NEW EPOXY COATED STEEL REINFORCEMENT SHALL BE PLACED TO SUPPLEMENT EXISTING REINFORCEMENT THAT HAS A SECTION LOSS OF 25% OR MORE OF THE ORIGINAL CROSS SECTION AREA OR HAS BROKEN, AS DETERMINED BY THE ENGINEER. NEW REINFORCEMENT SHALL EXTEND 30 BAR DIAMETERS IN EACH DIRECTION FROM WHERE THE SECTION LOSS OR BREAK ENDS. THE LIMITS OF THE REPAIR SHALL BE MODIFIED TO MEET THE REINFORCEMENT STEEL LAP SPLICE REQUIREMENTS. NEW REINFORCING STEEL SHALL BE PLACED AT THE SAME LEVEL ALONGSIDE THE EXISTING DETERIORATED OR BROKEN REINFORCING STEEL.



FULL DEPTH DECK REPAIR DETAIL
SCALE: 1½" = 1'-0"

NOTES:
1. DECK FORMS SHALL BE FLUSH WITH EXISTING DECK UNDERSIDE AND SHALL BE REMOVED AFTER CURING IS COMPLETE.



NOTE:
TRANSVERSE BARS NOT SHOWN FOR CLARITY.

TYPICAL DETERIORATED REINFORCEMENT STEEL REPAIR
SCALE: 1½" = 1'-0"

JULY 18, 2026	PS&E R2 SUBMISSION
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A00803 - 13
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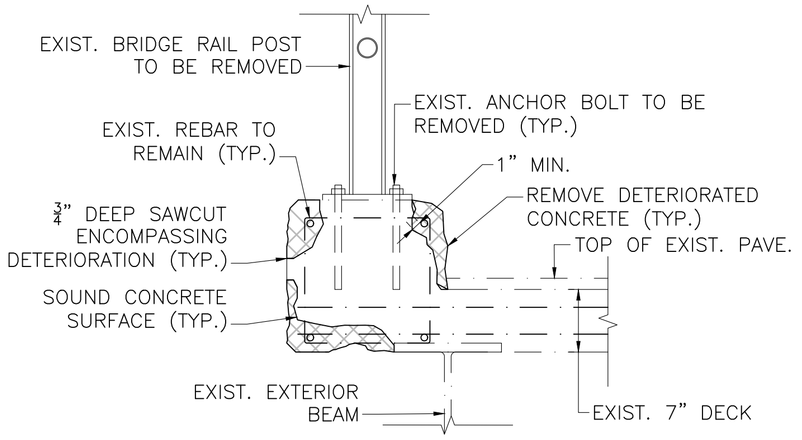
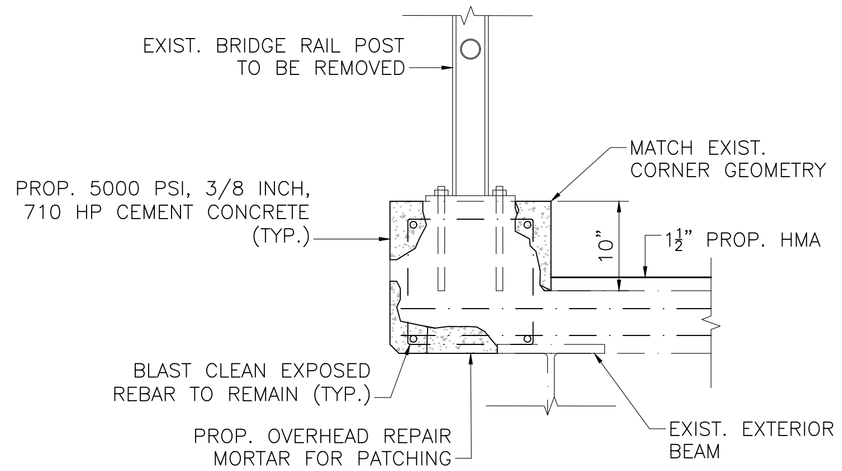
Proposal No. 616282-135581
PS&E R2 Submission 30-June-2026



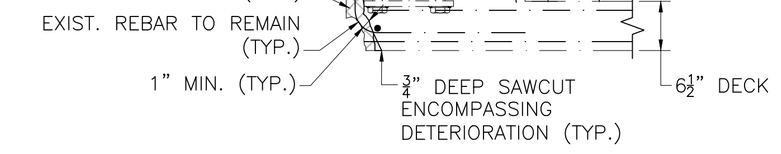
R9.1–R9.8 EXCAVATION SECTION
BRIDGE H–13–004

SCALE: 1" = 1'–0"



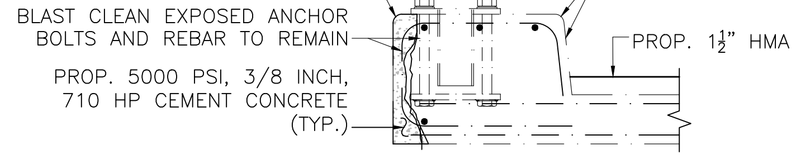
R9.1–R9.8 REPAIR DETAIL
BRIDGE H–13–004

SCALE: 1" = 1'–0"



R1.1–R1.7 EXCAVATION DETAIL
BRIDGE C–05–035

SCALE: 1" = 1'–0"



R1.1–R1.7 REPAIR DETAIL
BRIDGE C–05–035

SCALE: 1" = 1'–0"

BRIDGE CURB & COPING REPAIR NOTES:

1. TEMPORARY SHIELDING SHALL BE INSTALLED UNDERNEATH REPAIR AREAS PRIOR TO BEGINNING ANY DEMOLITION AND SHALL REMAIN FOR THE DURATION OF THE REPAIR.
2. A MAXIMUM 1" PERIMETER OF SOUND CONCRETE SHALL BE REMOVED BEYOND THE EXISTING DETERIORATION LIMITS.
3. CONTRACTOR SHALL HALT CONCRETE EXCAVATION AND NOTIFY THE ENGINEER IF BRIDGE RAIL ANCHOR BOLTS WITH SEVERE DETERIORATION ARE ENCOUNTERED. ANCHOR BOLTS SHALL BE REPLACED AT THE DIRECTION OF THE ENGINEER.
4. THE SURFACE OF COPING REPAIRS SHALL BE FINISHED FLUSH WITH ADJACENT CONCRETE SURFACE, INCLUDING ANY CHAMFERS WHICH SHALL MATCH EXISTING.
5. THE CONTRACTOR SHALL STOP REMOVING DETERIORATED CONCRETE WHEN A MAXIMUM DEPTH OF 6 IN. IS REACHED FOR VERTICAL AND HORIZONTAL REPAIRS AND 4 IN. FOR OVERHEAD REPAIRS. THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED IF UNSOUND CONCRETE IS NOT ENCOUNTERED AT THESE LIMITS.
6. 5000 PSI, 3/8 INCH, 710 HP CEMENT CONCRETE SHALL BE USED FOR VERTICAL AND HORIZONTAL REPAIRS. OVERHEAD REPAIR MORTAR FOR PATCHING SHALL BE USED FOR OVERHEAD REPAIRS.
7. ALL EXISTING REINFORCING STEEL, ANCHOR BOLTS, AND CONCRETE SURFACES THAT ARE TO BE IN CONTACT WITH REPAIR CONCRETE SHALL BE ABRASIVELY BLAST CLEANED IN ORDER TO REMOVE ALL RUST, OIL, AND DEBRIS THAT IS NOT TIGHTLY ADHERED, FOLLOWED BY APPLICATION OF COMPRESSED AIR TO REMOVE ALL DUST. EXISTING CONCRETE SURFACES THAT WILL BE IN CONTACT WITH REPAIR CONCRETE SHALL BE PRE–WETTED FOR A MINIMUM OF 24 HOURS USING POTABLE WATER IN ORDER TO ACHIEVE A SATURATED SURFACE DRY CONDITION IMMEDIATELY PRIOR TO PLACEMENT OF REPAIR CONCRETE.
8. NEW EPOXY COATED STEEL REINFORCEMENT SHALL BE PLACED TO SUPPLEMENT EXISTING REINFORCING THAT HAS A SECTION LOSS OF 25% OR MORE OF THE ORIGINAL CROSS SECTION AREA OR HAS BROKEN, AS DETERMINED BY THE ENGINEER. NEW REINFORCEMENT SHALL EXTEND 30 DIAMETERS IN EACH DIRECTION FROM WHERE THE SECTION LOSS OR BREAK ENDS. THE LIMITS OF REPAIR SHALL BE MODIFIED TO MEET THE REINFORCEMENT STEEL LAP SPLICE REQUIREMENTS. NEW REINFORCING STEEL SHALL BE PLACED AT THE SAME LEVEL ALONGSIDE THE EXISTING DETERIORATED OR BROKEN REINFORCING STEEL.
9. SEE SHEET 11 FOR DETERIORATED REINFORCEMENT REPAIR DETAIL.

DISTRICT 1 - MULTIPLE LOCATIONS
MULTIPLE LOCATIONS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	12	34
PROJECT FILE NO.	616282		

CONSTRUCTION DETAILS
CURB AND COPING DETAILS

JULY 18, 2026	PS&E R2 SUBMISSION
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BR15-19_SUBSTRUCTURE REPAIR DETAILS.DWG Plotted on 30-Jun-2026 10:18 AM
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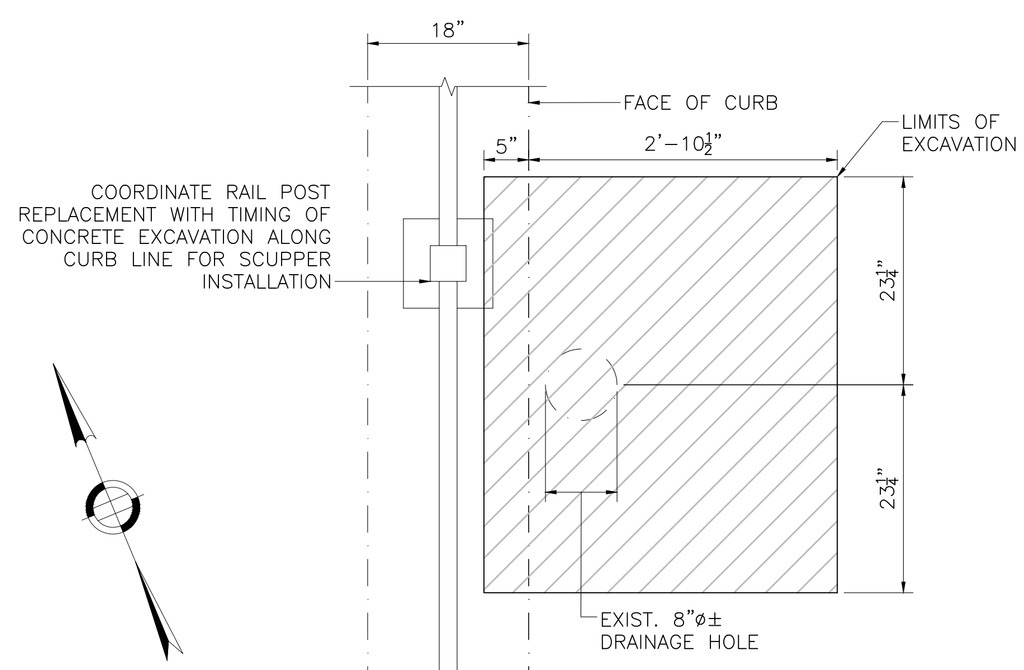
DISTRICT 1 - MULTIPLE LOCATIONS
MULTIPLE LOCATIONS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	13	34
PROJECT FILE NO.	616282		

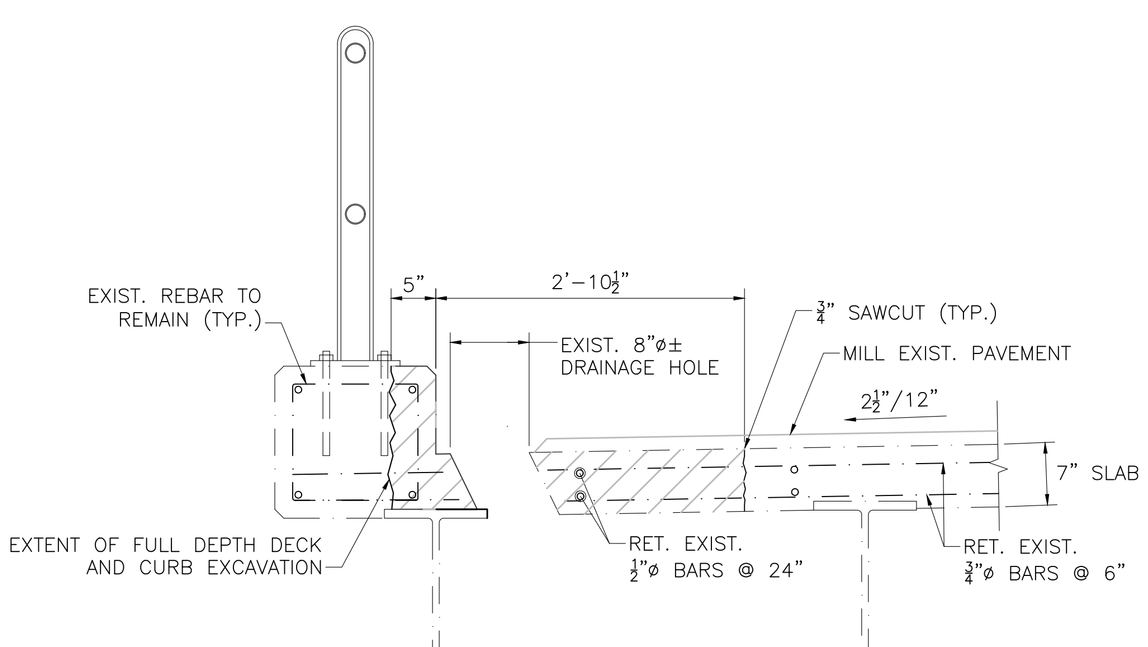
CONSTRUCTION DETAILS
SCUPPER DETAILS



NOTE: WEST CURB SHOWN. EAST CURB SIMILAR. SEE SHEET 12.

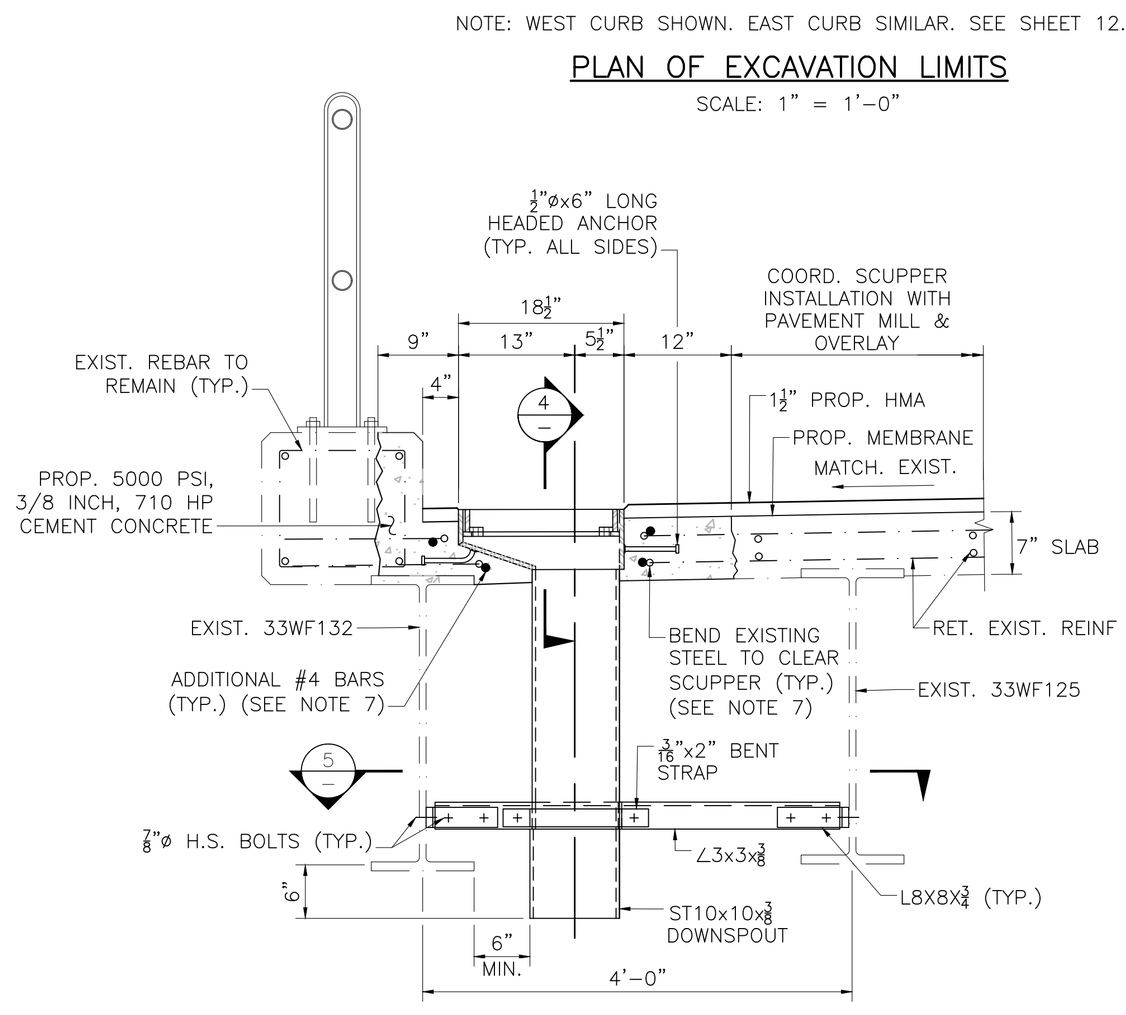
PLAN OF EXCAVATION LIMITS

SCALE: 1" = 1'–0"



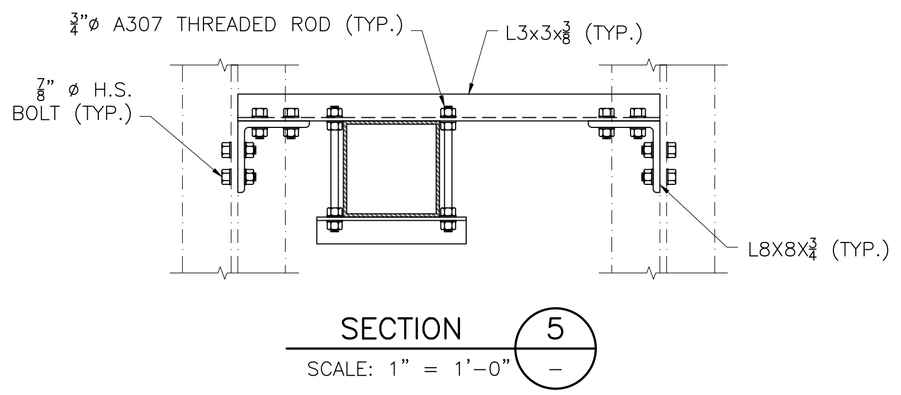
EXISTING DECK EXCAVATION

SCALE: 1" = 1'–0"



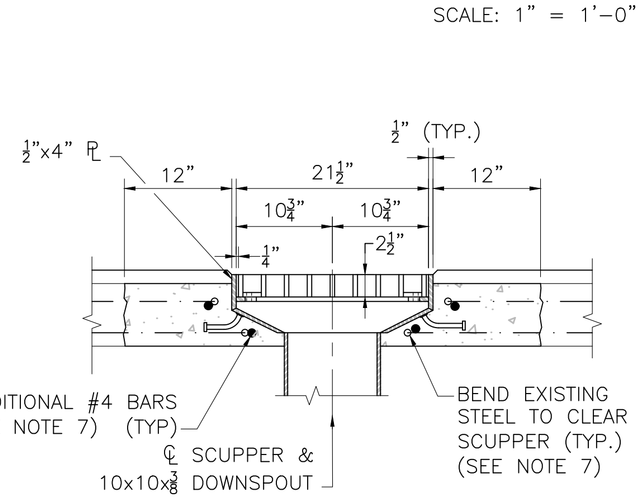
PROPOSED DECK WITH SCUPPER

SCALE: 1" = 1'–0"



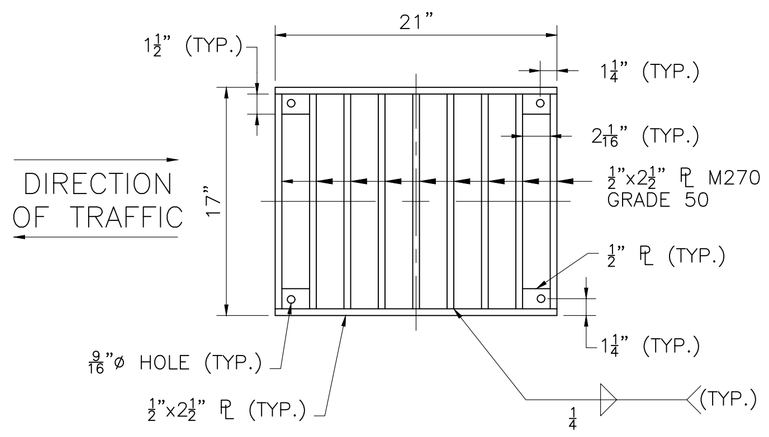
SECTION 5

SCALE: 1" = 1'–0"

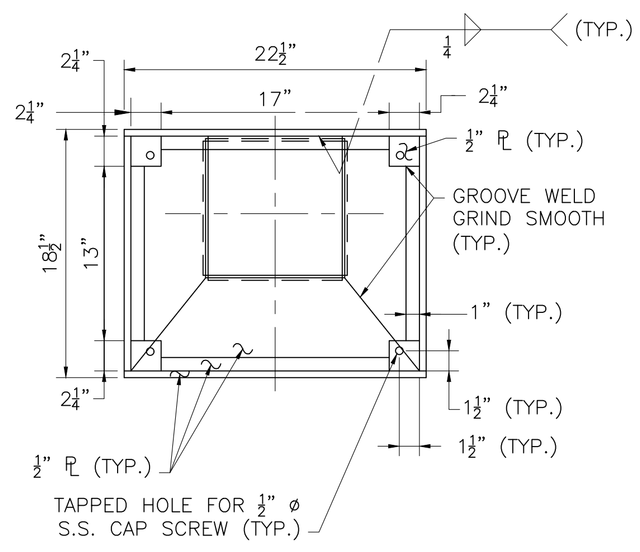


SECTION 4

SCALE: 1" = 1'–0"



PLAN OF GRATING



(GRATING REMOVED)

PLAN OF SCUPPER

GRATIING DETAILS

SCALE: 1½" = 1'–0"

SCUPPER NOTES:

1. ALL STEEL PLATES SHALL BE AASHTO M270 GRADE 50 AND SQUARE DOWNSPOUT TUBE SHALL BE ASTM A 500 GRADE A OR B.
2. ALL WELDS SHALL BE CONTINUOUS. ALL JOINTS SHALL BE WELDED USING TWO–SIDED ¼" FILLET WELDS OR ½" PJP WELDS WITH A BACKING SEAL WELD, AS APPLICABLE.
3. ALL STEEL TO BE HOT–DIP GALVANIZED. 10" SQUARE DOWNSPOUT TUBE TO BE GALVANIZED AND PAINTED TO MATCH COLOR OF THE STEEL GIRDERS.
4. TEMPORARY SUPPORT IS REQUIRED. SUPPORT DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

SCUPPER INSTALLATION NOTES:

1. TEMPORARY SHIELDING AND FORMWORK SHALL BE INSTALLED ENCOMPASSING LIMITS OF EXCAVATION PRIOR TO BEGINNING ANY DEMOLITION AND SHALL REMAIN FOR THE DURATION OF THE PROPOSED SCUPPER INSTALLATION AND CONCRETE POUR.
2. REPAIR SURFACES SHALL BE FINISHED FLUSH WITH ADJACENT CONCRETE SURFACES, INCLUDING ANY CHAMFERS ON THE CURB.
3. CONTRACTOR SHALL NOTIFY THE ENGINEER IF BRIDGE RAIL ANCHOR BOLTS WITH SEVERE DETERIORATION ARE ENCOUNTERED. ANCHOR BOLTS SHALL BE REPLACED AT THE DIRECTION OF THE ENGINEER.
4. ALL EXISTING REINFORCING STEEL, ANCHOR BOLTS, AND CONCRETE SURFACES THAT ARE TO BE IN CONTACT WITH NEW CONCRETE SHALL BE ABRASIVELY BLAST CLEANED IN ORDER TO REMOVE ALL RUST, OIL, AND DEBRIS THAT IS NOT TIGHTLY ADHERED, FOLLOWED BY APPLICATION OF COMPRESSED AIR TO REMOVE ALL DUST.
5. EXISTING CONCRETE SURFACES THAT WILL BE IN CONTACT WITH NEW CONCRETE SHALL BE PRE–WETTED FOR A MINIMUM OF 24 HOURS USING POTABLE WATER IN ORDER TO ACHIEVE A SATURATED SURFACE DRY CONDITION IMMEDIATELY PRIOR TO PLACEMENT OF REPAIR CONCRETE.
6. ALL DECK AND CURB STEEL IN THE SCUPPER RECONSTRUCTION AREA SHALL REMAIN. REPLACE BARS ONLY AS DIRECTED BY THE ENGINEER.
7. NEW EPOXY COATED STEEL REINFORCEMENT SHALL BE PLACED TO SUPPLEMENT EXISTING REINFORCING THAT HAS A SECTION LOSS OF 25% OR MORE OF THE ORIGINAL CROSS SECTION AREA OR HAS BROKEN, AS DETERMINED BY THE ENGINEER. NEW REINFORCEMENT SHALL EXTEND 30 DIAMETERS IN EACH DIRECTION FROM WHERE THE SECTION LOSS OR BREAK ENDS. THE LIMITS OF REPAIR SHALL BE MODIFIED TO MEET THE REINFORCEMENT STEEL LAP SPLICE REQUIREMENTS. NEW REINFORCING STEEL SHALL BE PLACED AT THE SAME LEVEL ALONGSIDE THE EXISTING DETERIORATED OR BROKEN REINFORCING STEEL. THE CONTRACTOR SHALL BE PERMITTED TO USE COUPLERS WHERE THE LAP LENGTH REQUIREMENT EXTENDS BEYOND THE REPAIR AREA UPON APPROVAL FROM THE ENGINEER. COUPLER SHALL BE INCIDENTAL TO ITEM 910.1, STEEL REINFORCEMENT FOR STRUCTURES – EPOXY COATED.
8. IF EXISTING REINFORCEMENT CANNOT BE BENT AROUND PERIMETER OF SCUPPER, INSTALL NEW #4 U BARS TOP AND BOTTOM AROUND SCUPPER, OR AS DIRECTED BY THE ENGINEER.
9. EXISTING PAINT AND ALL DUST, DIRT, OIL, AND DEBRIS SHALL BE REMOVED FROM THE SURFACE OF THE EXISTING WEBS TO THE SATISFACTION OF THE ENGINEER AND SURFACE SHALL BE PREPPED FOR COMPLETION OF THE WELDS. REPAINT AREAS UPON COMPLETION OF INSTALLATION.

JULY 18, 2026	PS&E R2 SUBMISSION
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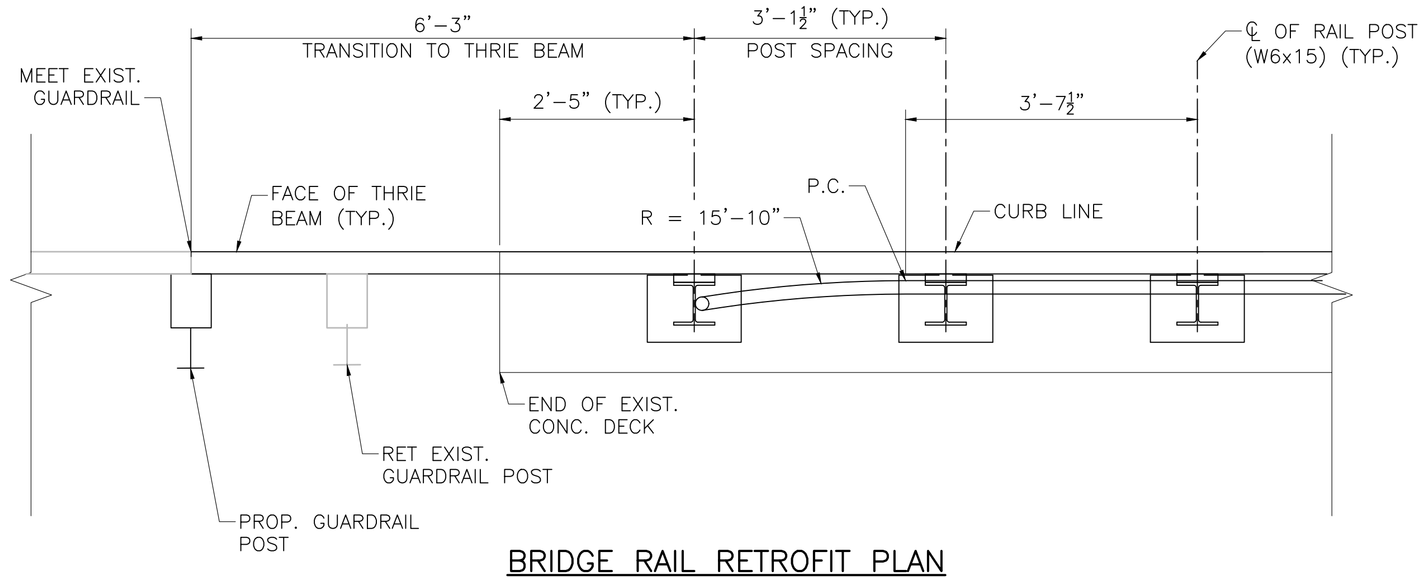
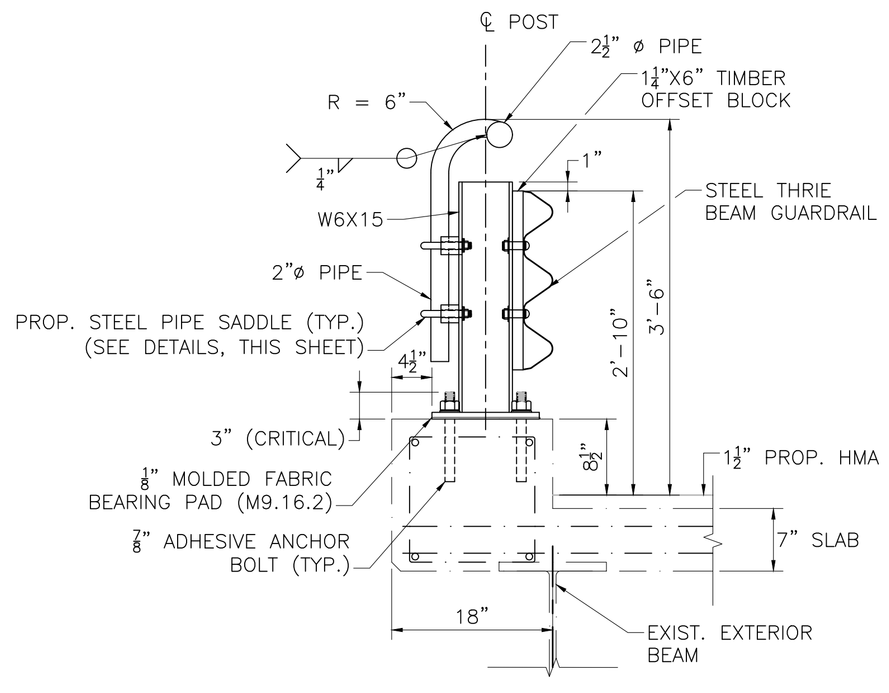
PS&E R2 Submission 30-June-2026
Proposal No. 616282-135581



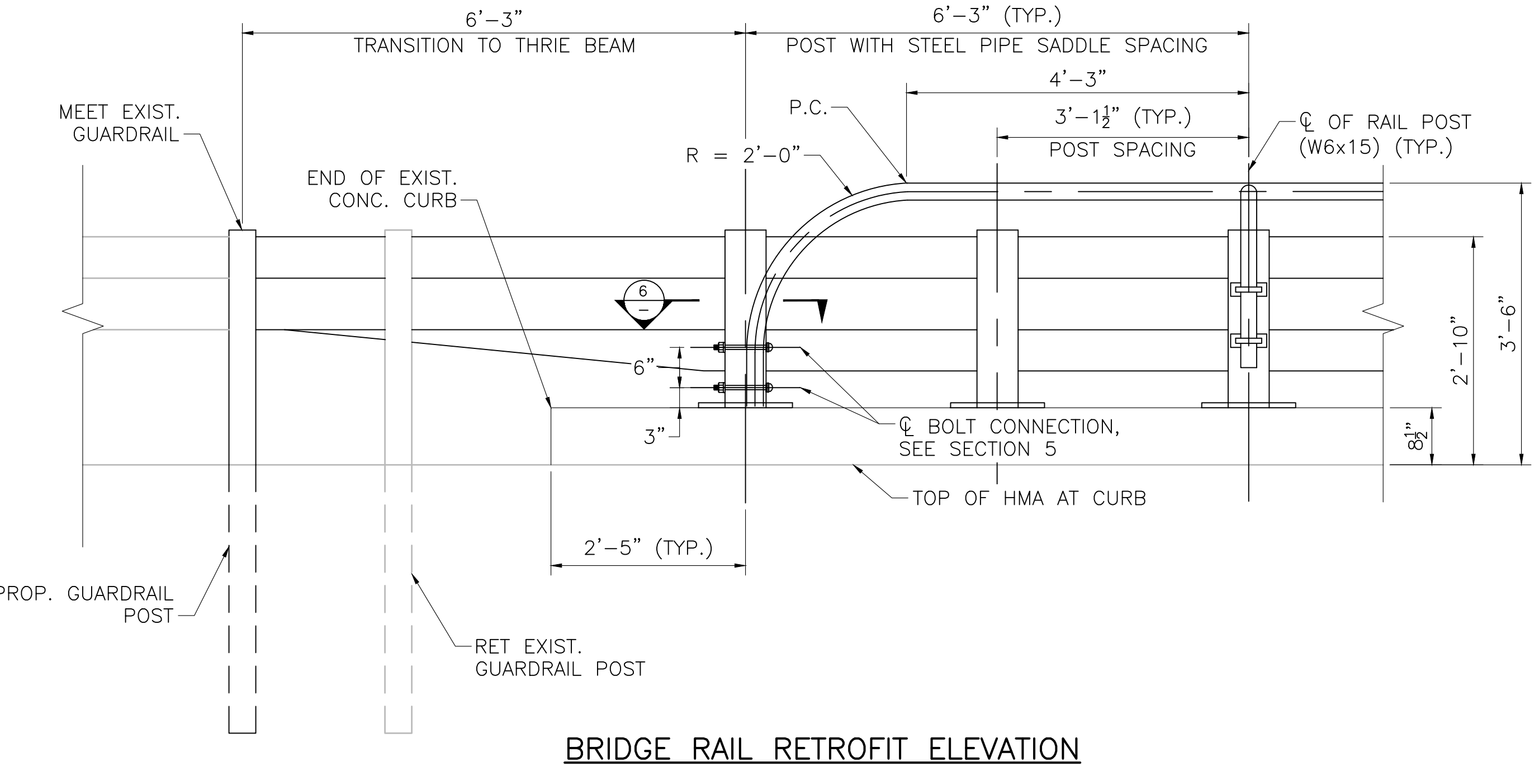
BRIDGE RAIL RETROFIT PLAN

SCALE: ¾" = 1'–0"



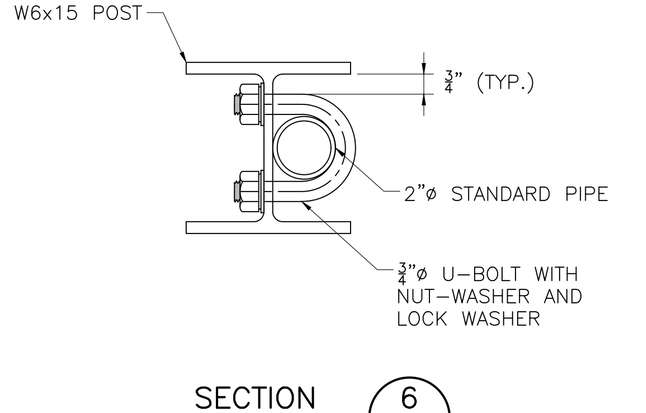
BRIDGE RAIL RETROFIT SECTION

SCALE: 1" = 1'–0"



BRIDGE RAIL RETROFIT ELEVATION

SCALE: ¾" = 1'–0"

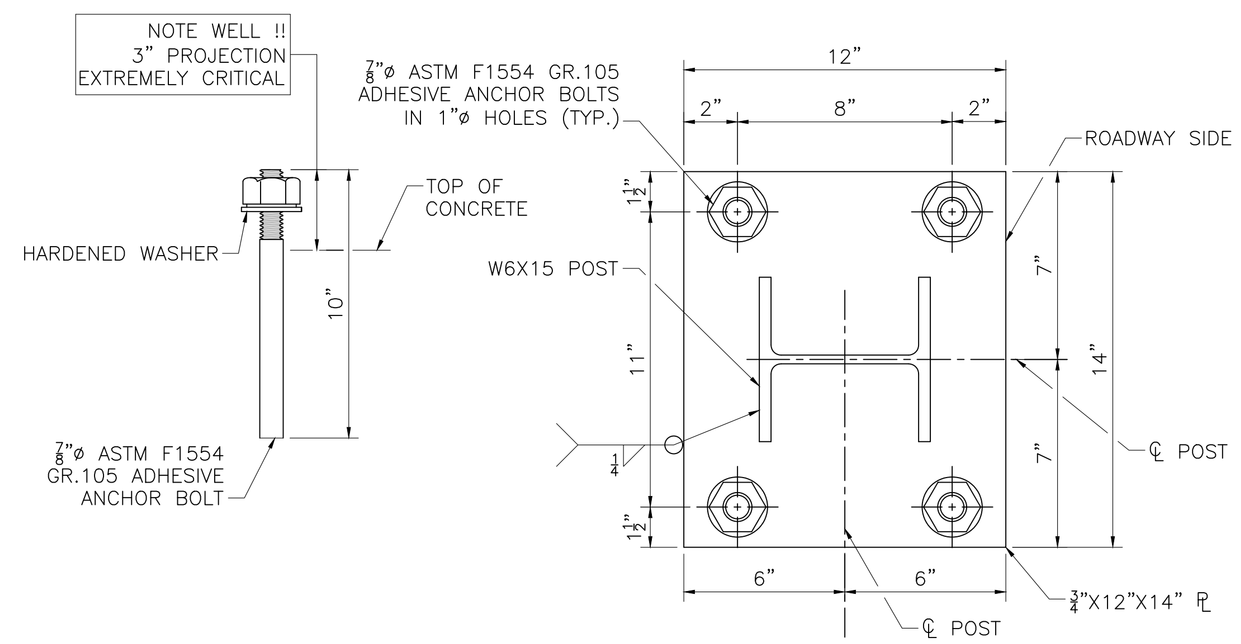


SECTION 6 / –

SCALE: 3" = 1'–0"

HANDRAIL AND GUARDRAIL NOTES:

1. REFER TO MASSDOT CONSTRUCTION STANDARD DETAILS FOR ADDITIONAL INFORMATION REGARDING THE THRIE BEAM GUARDRAIL AND HARDWARE DETAILS.
2. ALL GUARDRAIL POSTS WITH THE STEEL HANDRAIL MOUNTED TO THE COPING SHALL BE W6X15. ALL OTHER GUARDRAIL POST AND INSTALLATION DETAILS SHALL BE IN ACCORDANCE WITH THE RELEVANT MASSDOT STANDARD DETAILS, AS REFERENCED.
3. ALL GUARDRAIL POSTS BOLTED INTO THE TOP OF THE CONCRETE COPINGS SHALL BE IN ACCORDANCE WITH THE DETAILS IN THESE PLANS.
4. SEE BASE PLATE AND ANCHOR BOLT DETAILS ON THIS SHEET FOR ADDITIONAL INFORMATION.
5. ADHESIVE ANCHOR BOLTS SHALL BE A HILTI HIT–RE V3 ADHESIVE ANCHORING SYSTEM OR APPROVED EQUAL THAT IS LISTED ON THE MASSDOT QUALIFIED CONSTRUCTION MATERIALS LIST.
6. ANCHOR BOLTS SHALL BE SET WITH TEMPLATES. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8 TURN AFTER STEEL IS IN PLACE.
7. ALL STEEL CONNECTING BOLTS AND FASTENERS FOR POSTS SHALL CONFORM TO ASTM A325 TYPE III GALVANIZED. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 105.
8. RAIL POSTS AND BASE PLATES SHALL BE SEATED ON MOLDED FABRIC BEARING PADS OR HALF PADS MAY BE USED IN SHIMMING FOR ALIGNMENT.
9. RAIL POSTS SHALL BE SET PERPENDICULAR TO ROADWAY PROFILE GRADE AND VERTICALLY IN CROSS SECTION, EXCEPT THAT THE RAIL POSTS SHALL BE ALIGNED BY THE USE OF SHIMS SO THAT IN THE FINAL ADJUSTMENT NO PART SHALL DEVIATE MORE THAN ONE HALF INCH FROM TRUE HORIZONTAL ALIGNMENT. THE SHIMS SHALL BE 3"x1¼" AND PLACED BETWEEN THE POST AND THE THRIE BEAM RAIL. THE THICKNESS OF THE SHIMS SHALL BE DETERMINED BY THE CONTRACTOR AND SHOWN IN THE SHOP DRAWINGS FOR APPROVAL BY THE ENGINEER BEFORE ORDERING MATERIAL FOR THIS WORK.
10. THRIE BEAM SHALL BE CONTINUOUS OVER A MINIMUM OF FOUR POSTS.
11. THRIE BEAM GUARDRAIL STEEL SHALL BE GALVANIZED AND CONFORM TO THE AASHTO M180, CLASS B, TYPE IV AND SHALL BE 10 GAGE THICK. USE OF 12 GAGE THICK THRIE BEAM IS EXPRESSLY FORBIDDEN.
12. POSTS, HAND RAIL STEEL, ANCHOR PLATES AND BASE PLATES SHALL BE FABRICATED FROM STEEL CONFORMING TO AASHTO M270 GRADE 50 STEEL. ALL STEEL TO BE GALVANIZED.
13. SPECIAL DRILLING OF THE THRIE BEAM MAY BE REQUIRED AT THE SPLICES. ALL DRILLING DETAILS ARE TO BE SHOWN ON THE SHOP DRAWINGS.
14. DETAILS ARE SHOWN FOR THE STEEL THRIE BEAM HIGHWAY GUARD TO BE INSTALLED ALONG TOP OF CONCRETE COPINGS.

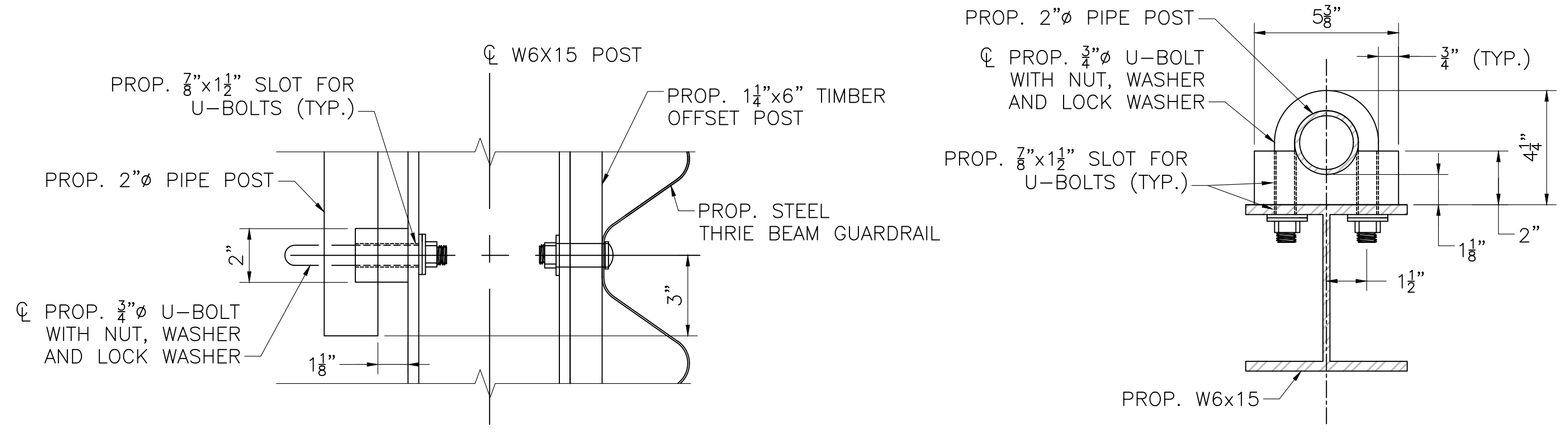


ANCHOR BOLT

SCALE: 3" = 1'–0"

BASE PLATE

SCALE: 3" = 1'–0"



ELEVATION

PLAN VIEW

STEEL PIPE SADDLE DETAILS

SCALE: 3" = 1'–0"

DISTRICT 1 - MULTIPLE LOCATIONS
MULTIPLE LOCATIONS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	14	34
PROJECT FILE NO.	616282		

CONSTRUCTION DETAILS
BRIDGE RAIL RETROFIT (1 OF 2)

JULY 18, 2026	PS&E R2 SUBMISSION
USE ONLY PRINTS OF LATEST DATE	

SHEET 14 OF 34 SHEETS BRIDGE NO. H–13–004 (0F8)

BR15-19_SUBSTRUCTURE REPAIR DETAILS.DWG Plotted on 30-Jun-2026 10:19 AM
Proposal No. 616282-135581
PS&E R2 Submission 30-June-2026
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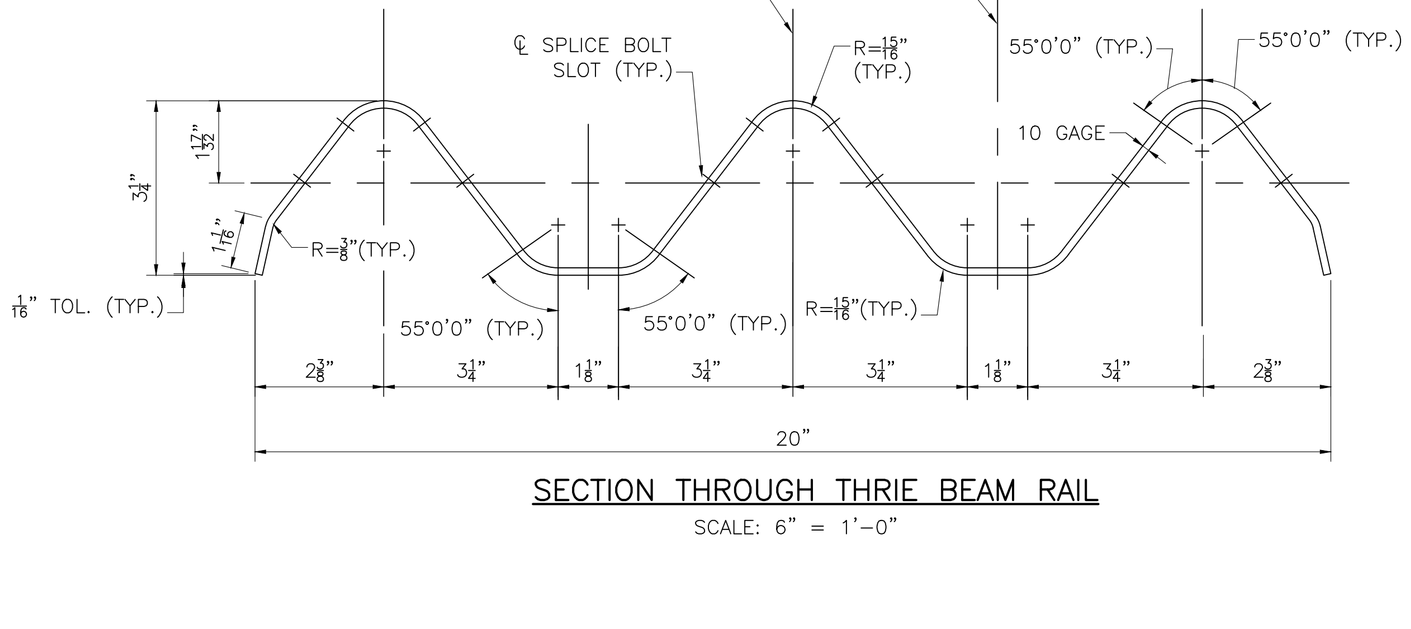
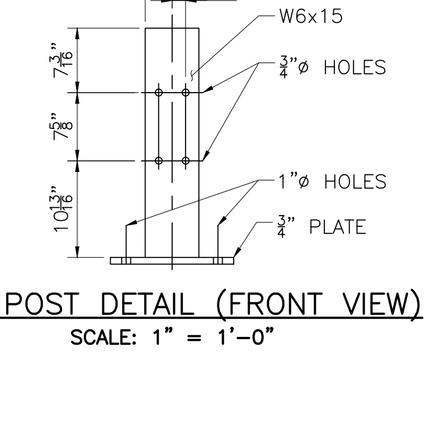
DISTRICT 1 - MULTIPLE LOCATIONS
MULTIPLE LOCATIONS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	15	34
PROJECT FILE NO.	616282		

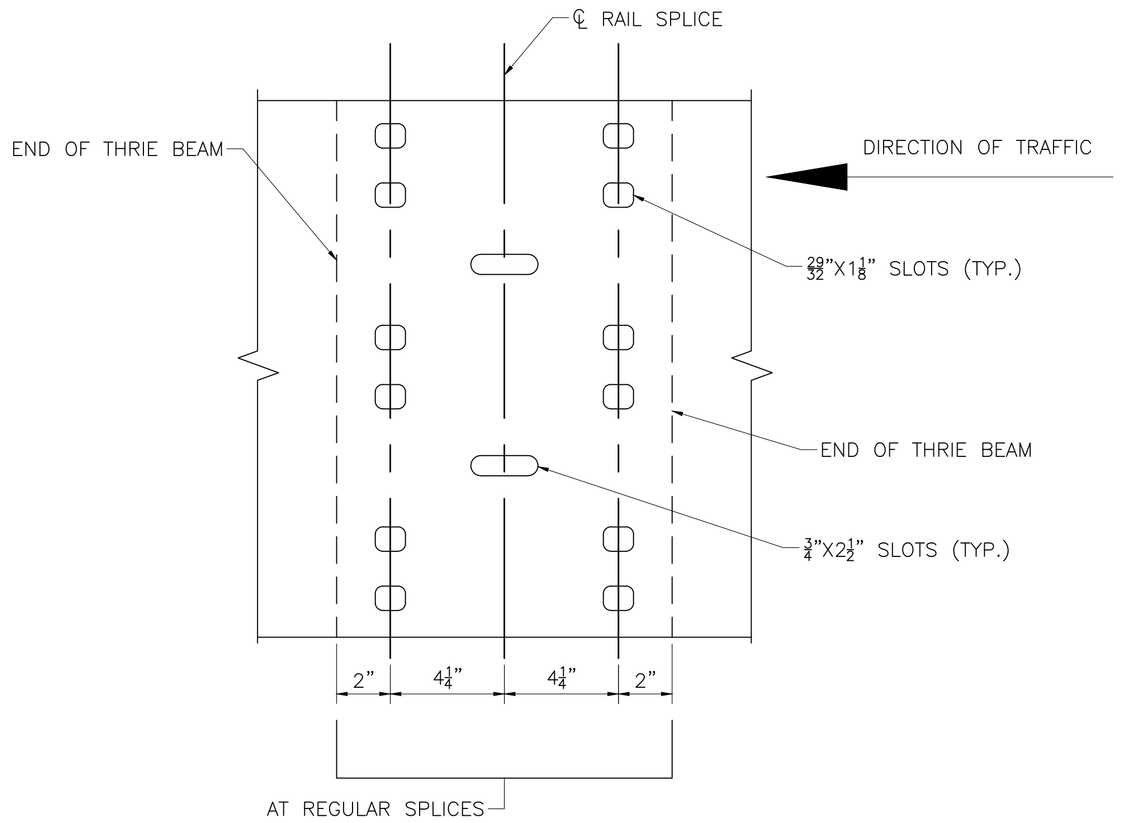
CONSTRUCTION DETAILS
BRIDGE RAIL RETROFIT (2 OF 2)



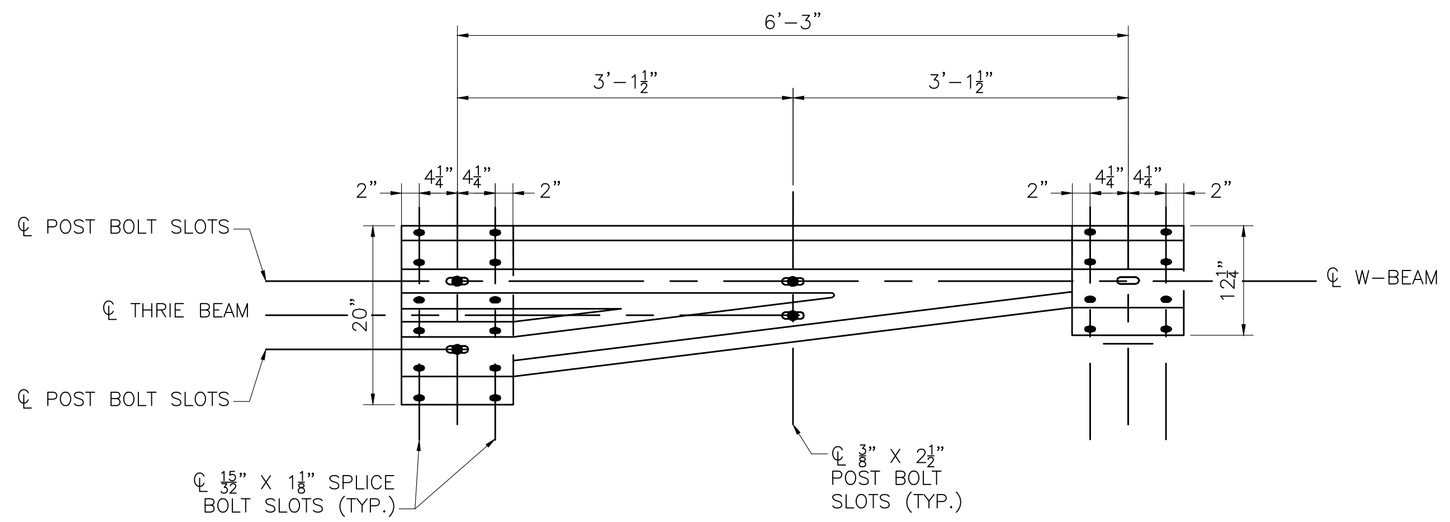
SECTION THROUGH THRIE BEAM RAIL
SCALE: 6" = 1'-0"



RAIL POST DETAIL (FRONT VIEW)
SCALE: 1" = 1'-0"



THRIE BEAM RAIL SPLICE DETAILS
SCALE: 3" = 1'-0"



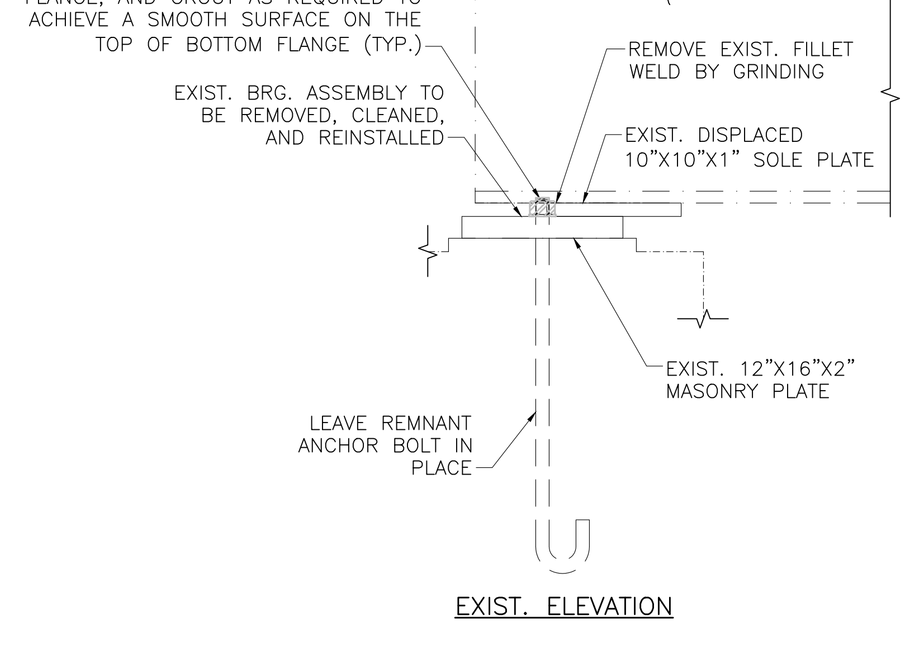
THRIE BEAM TRANSITION PANEL ELEVATION
SCALE: 1" = 1'-0"

NOTE:

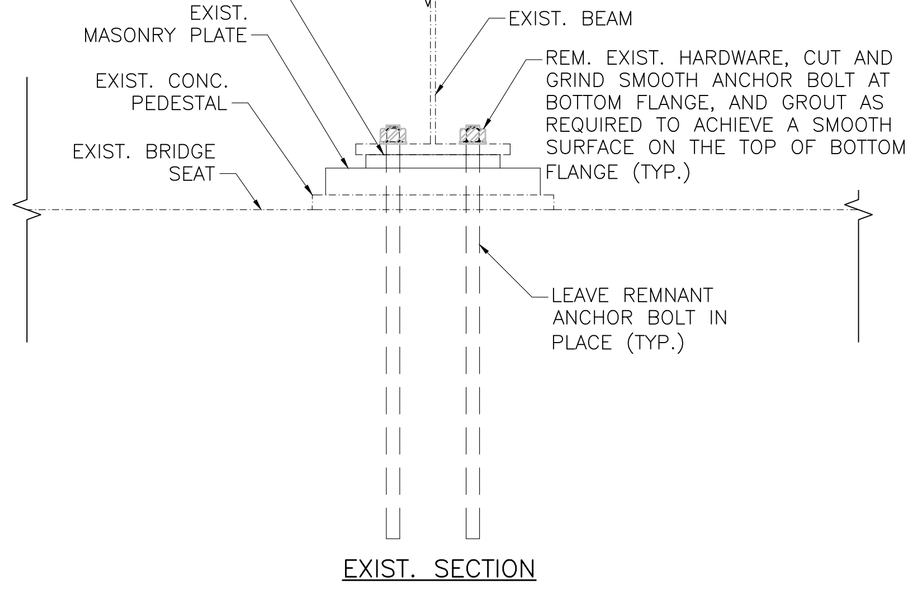
1. CONTRACTOR TO FIELD VERIFY TRANSITION PANEL WILL FIT WITH THE EXISTING W-BEAM RAILING PRIOR TO ORDERING THE PIECE OR CLOSING THE ROAD. ENGINEER TO BE CONTACTED IF GEOMETRY DOES NOT MATCH THIS PROPOSED DETAIL.

JULY 18, 2026	PS&E R2 SUBMISSION
USE ONLY PRINTS OF LATEST DATE	

A00803 - 17
BR15-19_SUBSTRUCTURE REPAIR DETAILS.DWG Plotted on 30-Jun-2026 10:20 AM
Proposal No. 616282-135581
PS&E R2 Submission 30-June-2026



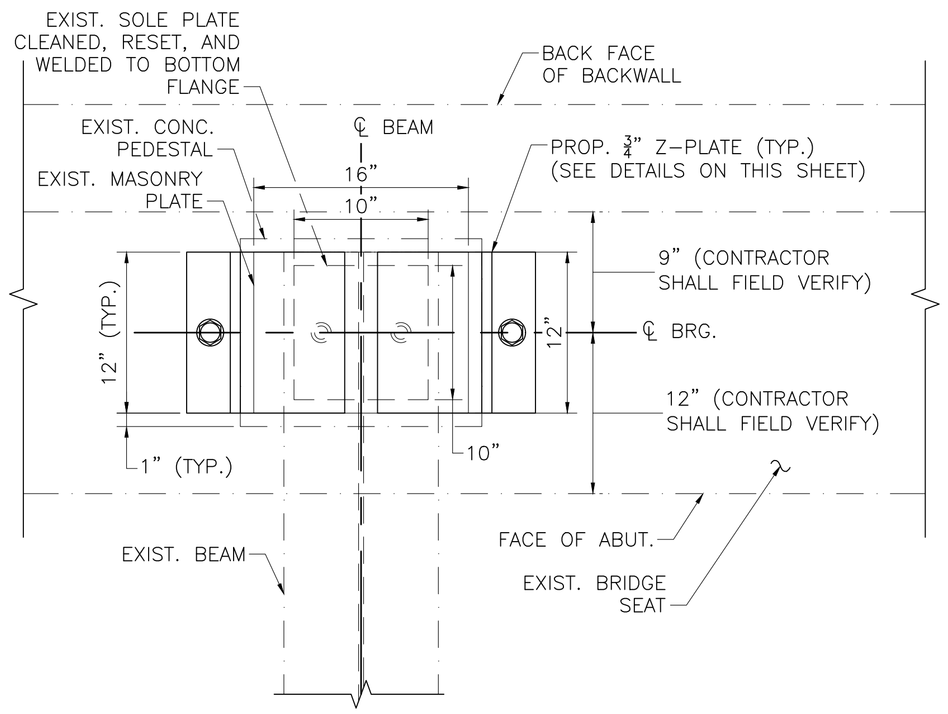
EXIST. ELEVATION



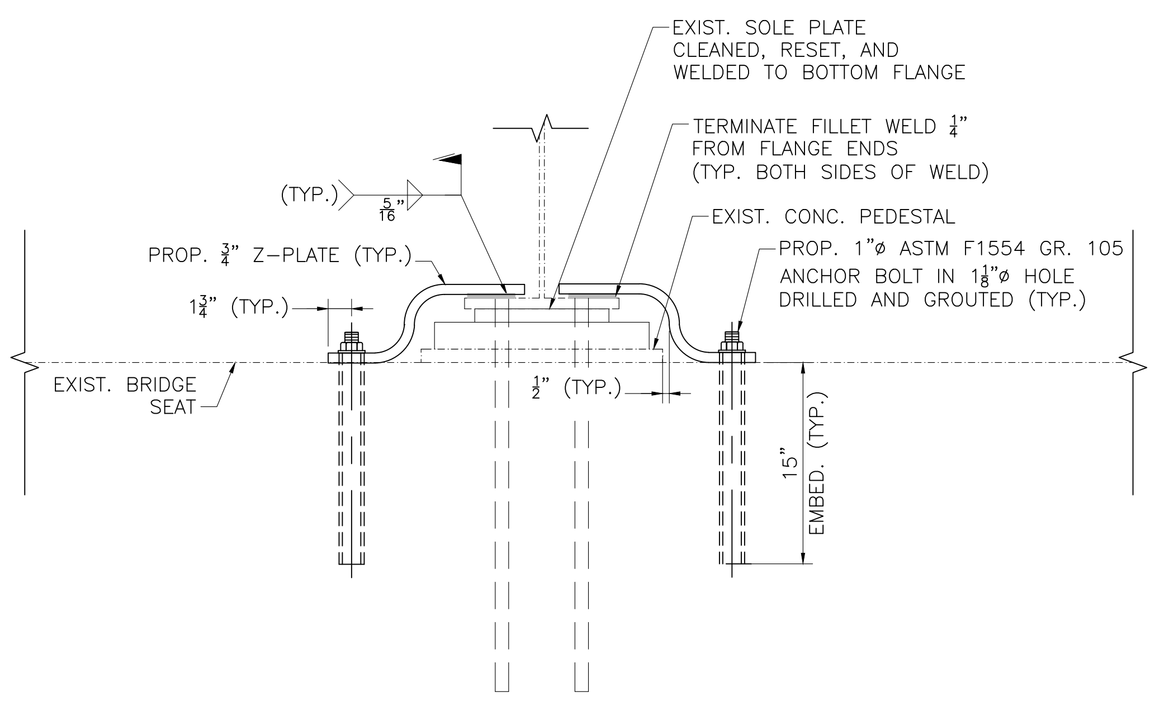
EXIST. SECTION

BEARING RESET NOTES:

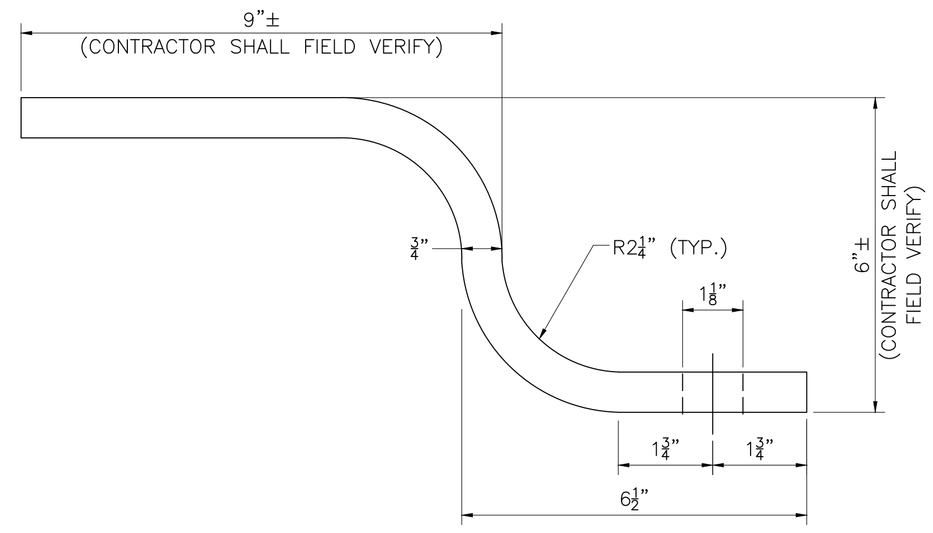
1. BEARING RESET SHALL ONLY BE PERFORMED AT LOCATIONS DESIGNATED AS BEARING DEVICE REPAIR ON SHEET 6 AND AT THE DIRECTION OF THE ENGINEER. AT OTHER LOCATIONS REQUIRING A BEAM END ANCHORAGE REPAIR, THE REPAIR SHALL BE PERFORMED AS DETAILED ON THIS SHEET WITHOUT RESETTING THE EXISTING BEARING.
2. THE CONTRACTOR SHALL SUBMIT A TEMPORARY JACKING AND SHORING PLAN TO THE ENGINEER FOR APPROVAL. SEE SHEET 17 FOR CONCEPTUAL JACKING AND SHORING DETAILS.
3. WELDED CONNECTION OF SOLE PLATE TO FLANGE SHALL BE REMOVED BY GRINDING TO ALLOW FOR BEARING DISASSEMBLY.
4. DURING THE BEARING RESET, THE CONTRACTOR SHALL ENSURE THAT THE BEARING IS NOT FROZEN AND THAT IT CAN SLIDE/ROTATE FREELY.
5. REMOVE PACK RUST AND DEBRIS FROM THE BEARING AND BEARING SURFACE INTERFACES. REPAINT AS REQUIRED. SOLE PLATE SHALL BE REPLACED IF FRACTURED OR HEAVILY DEFORMED.
6. RESET BEARING SO THAT IT IS CENTERED AT AMBIENT TEMPERATURE BETWEEN 50° AND 70°F. IF WORK CANNOT BE CARRIED OUT WITHIN THIS TEMPERATURE RANGE, THE ENGINEER MUST PROVIDE THE RESET DISTANCE TO CORRECT FOR THERMAL MOVEMENT.
7. RE-WELD SOLE PLATE TO BOTTOM FLANGE PRIOR TO INSTALLING Z-PLATE AND LOADING BEARING.
8. LIVE LOAD SHALL BE REMOVED FROM THE ROADWAY ABOVE THE REPAIR LOCATIONS UNTIL JACKING IS COMPLETED AND HYDRAULIC JACKS ARE LOCKED.
9. CONTRACTOR SHALL PAINT EXISTING BEARING ASSEMBLY SIMULTANEOUSLY WITH ALL BEAM PAINTING OPERATIONS AND IN ACCORDANCE WITH THE PROVISIONS IN ITEM 961.201.



PROP. PLAN



PROP. SECTION



Z-PLATE DETAIL
SCALE: 6" = 1'-0"

NOTE:

1. CONTRACTOR SHALL PAINT Z-PLATE ASSEMBLY SIMULTANEOUSLY WITH ALL BEAM PAINTING OPERATIONS AND IN ACCORDANCE WITH THE PROVISIONS IN ITEM 961.201.

BEAM END ANCHORAGE REPAIR DETAILS

SCALE: 1½" = 1'-0"

JULY 18, 2026	PS&E R2 SUBMISSION
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BR20-21_BEARING DETAILS.DWG Plotted on 30-Jun-2026 10:23 AM
Proposal No. 616282-135581
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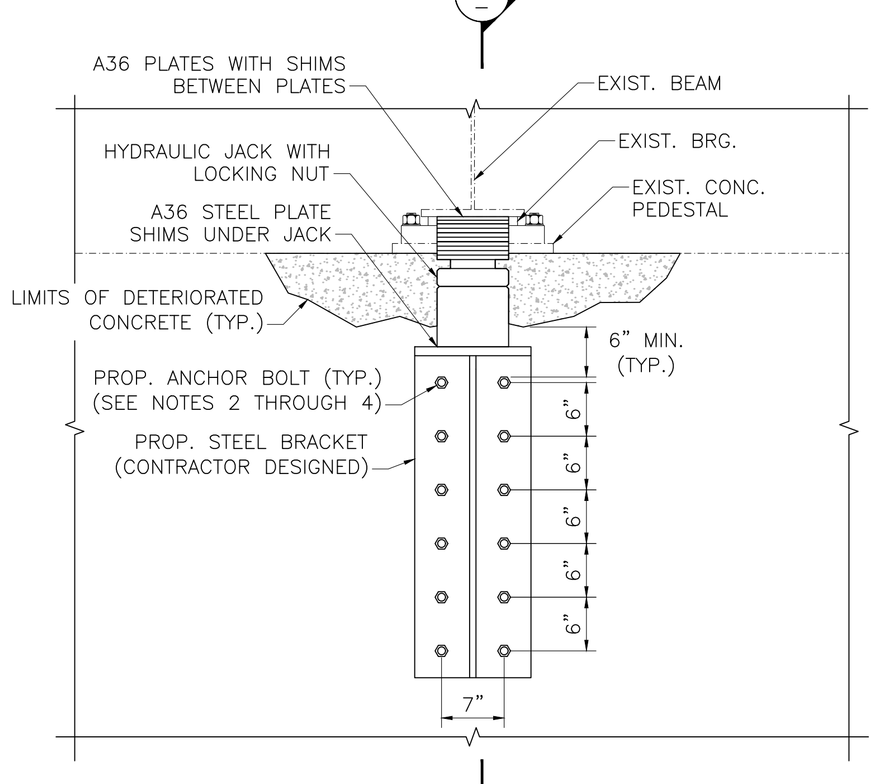
A00803 - 18

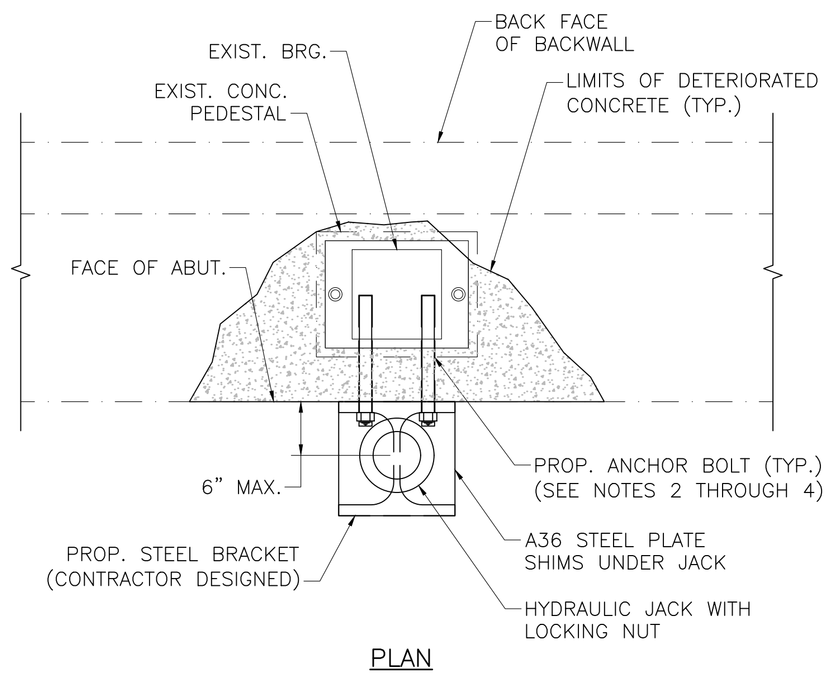
BR20-21_BEARING DETAILS.DWG Plotted on 30-Jun-2026 10:21 AM

Proposal No. 616282-135581

A00803 - 19



ELEVATION



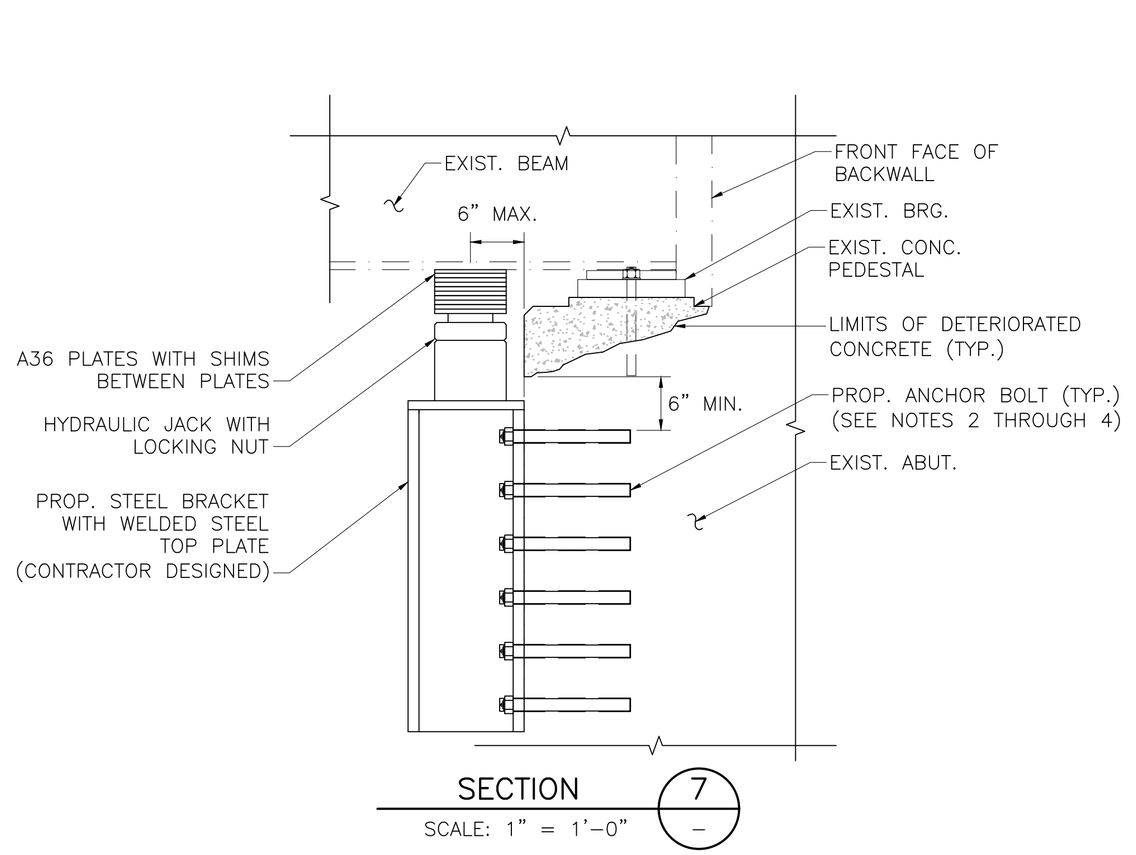
PLAN

JACKING AND SHORING SYSTEM DETAIL

NOT TO SCALE

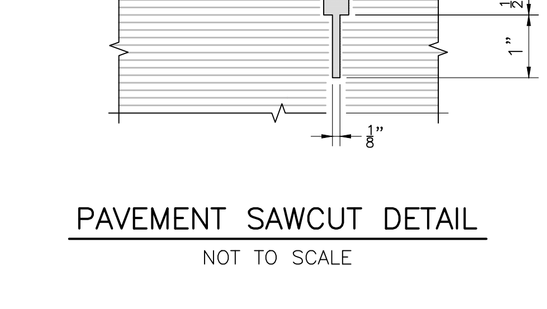
JACKING NOTES:

1. THE PLATE BENEATH OF THE STEEL GIRDER SHALL BE ATTACHED TO THE BOTTOM FLANGE OF THE GIRDER USING C–CLAMPS.
2. ANCHOR BOLTS SHALL BE INSTALLED INTO THE EXISTING FACE OF THE ABUTMENT IN THE CONFIGURATION SHOWN ON THIS SHEET AT THE LOCATIONS SHOW ON SHEETS 4 THROUGH 6 OF THIS PLAN SET.
3. DESIGN LOADING SHALL BE AN UNFACTORED DEAD LOAD OF 16 KIPS, AN UNFACTORED LIVE LOAD OF 30 KIPS, AND AN IMPACT FACTOR OF 1.30. JACKING AND SHORING SYSTEM SHALL BE DESIGNED BY CONTRACTOR USING WORKING STRESS DESIGN (ASD).
4. THE ANCHOR BOLTS FOR THE STEEL BRACKET THAT SHALL PROVIDE A MINIMUM SHEAR CAPACITY OF 4.41 KIPS AND MINIMUM TENSION CAPACITY OF 3.78 KIPS. SHEAR AND TENSION DEMANDS SPECIFIED ARE BASED ON WORKING STRESS DESIGN AND THE SPECIFIC ANCHOR LAYOUT SHOWN ON THESE PLANS. CHANGES TO THE ANCHOR LAYOUT WILL REQUIRE REVISED ANCHOR LOADS TO BE CALCULATED AND INCLUDED IN THE CONTRACTOR'S SUBMITTAL.
5. THE CONTRACTOR SHALL SIZE THE ANCHOR BOLTS, INCLUDING DIAMETER, MINIMUM LENGTH, AND EMBEDMENT BASED ON THE MANUFACTURER'S RECOMMENDATIONS TO PROVIDE THE MINIMUM SHEAR AND TENSILE CAPACITY VALUES REQUIRED IN NOTE 3.
6. CONTRACTOR SHALL TAKE CARE TO INSTALL THE BRACKET SO THAT THE CENTER OF THE BRACKET IS LOCATED UNDER THE BEAM IN FRONT OF THE ABUTMENT AND THE JACK WILL BE CENTERED DIRECTLY UNDER THE BEAMS WEB.
7. CONTRACTOR SHALL BE COMPENSATED FOR JACKING AND SHORING IN ACCORDANCE WITH THE LOCATIONS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. TEMPORARY SHORING INSTALLED FOR THE CONTRACTOR'S CONVENIENCE SHALL BE INCIDENTAL AND NO ADDITIONAL COMPENSATION WILL BE MADE.
8. LIVE LOAD SHALL BE REMOVED FROM THE ROADWAY ABOVE THE REPAIR LOCATION UNTIL JACKING OPERATIONS ARE COMPLETED AND HYDRAULIC JACKS ARE LOCKED.



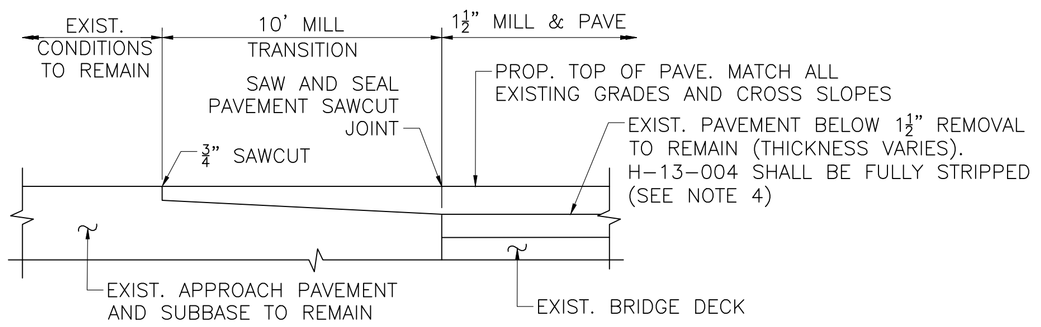
SECTION 7 –

SCALE: 1" = 1'–0"



PAVEMENT SAWCUT DETAIL

NOT TO SCALE



PAVEMENT TRANSITION DETAIL

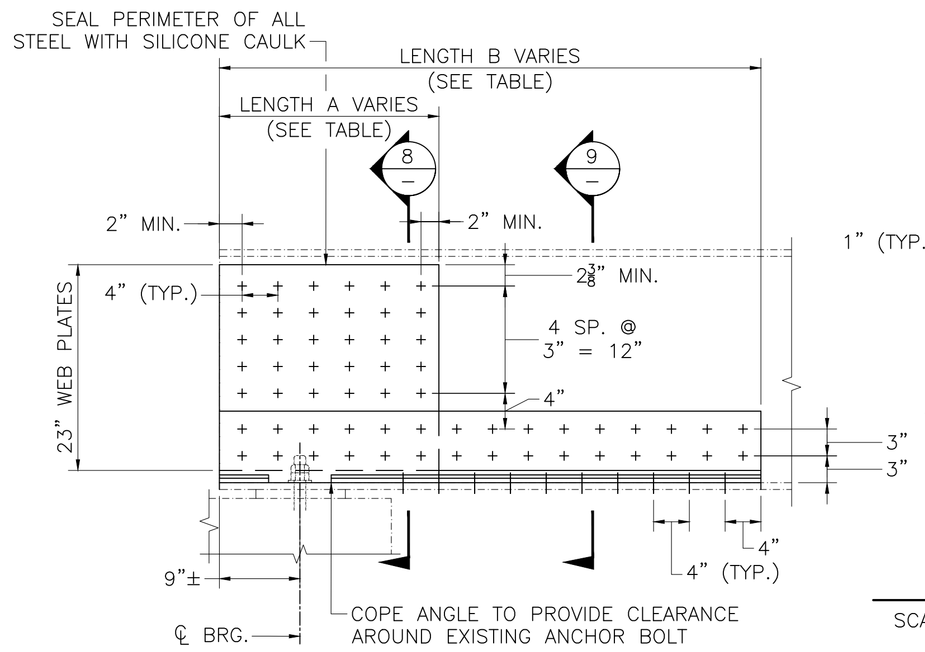
NOT TO SCALE

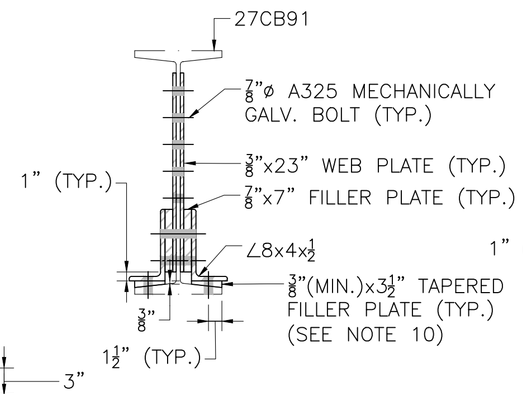
PAVEMENT NOTES:

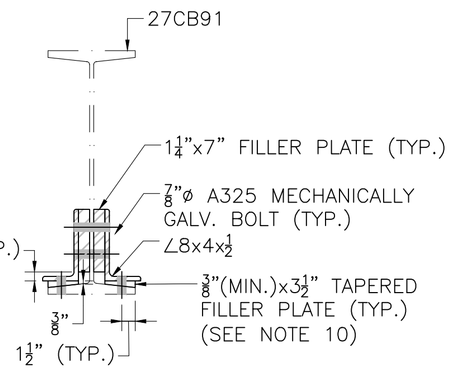
1. ALL BRIDGES SHALL HAVE THE TOP 1½" OF PAVEMENT MILLED IN ADDITION TO THE 10' TRANSITION ZONE ON EACH END OF THE BRIDGE AS NOTED IN THE PAVEMENT TRANSITION DETAIL ABOVE.
2. ALL BRIDGES SHALL HAVE A PAVEMENT SAW AND SEAL JOINT ALONG THE END OF DECK LOCATIONS ON EACH END, AS SHOWN IN THE PAVEMENT SAWCUT DETAIL ON THIS SHEET.
3. ALL PAVEMENT SHALL BE 1½" SUPERPAVE BRIDGE SURFACE COURSE – 9.5 POLYMER (SSC–B – 9.5 – P).
4. THE EXISTING PAVEMENT DEPTHS ARE UNCERTAIN, HOWEVER THE CURRENT REVEAL INDICATES THAT THE DEPTH OF PAVEMENT ON BRIDGE H–13–004 IS APPROXIMATELY 1¼ – 1½" IN THICKNESS AT THE CURB LINE. THE EXISTING PAVEMENT ON BRIDGE H–13–004 SHALL BE FULLY STRIPPED. THE CONTRACTOR SHALL EXERCISE CARE DURING MILL OPERATIONS TO NOT DAMAGE THE TOP SURFACE OF THE CONCRETE DECK. IN ALL INSTANCES WHERE THE CONCRETE DECK IS EXPOSED, IT SHALL BE CLEANED AND MEMBRANE WATERPROOFING (ITEM 965) SHALL BE APPLIED PRIOR TO PROPOSED PAVING OPERATIONS.

JULY 18, 2026	PS&E R2 SUBMISSION
USE ONLY PRINTS OF LATEST DATE	

PS&E R2 Submission 30-June-2026







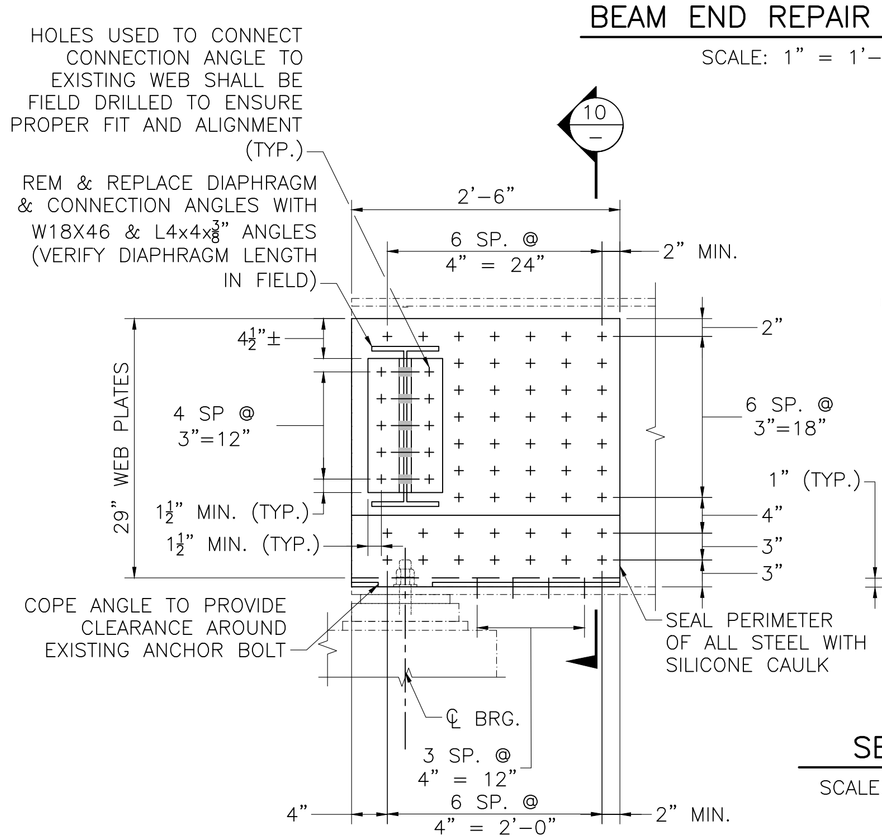
SECTION 8 — SCALE: 1" = 1'–0"

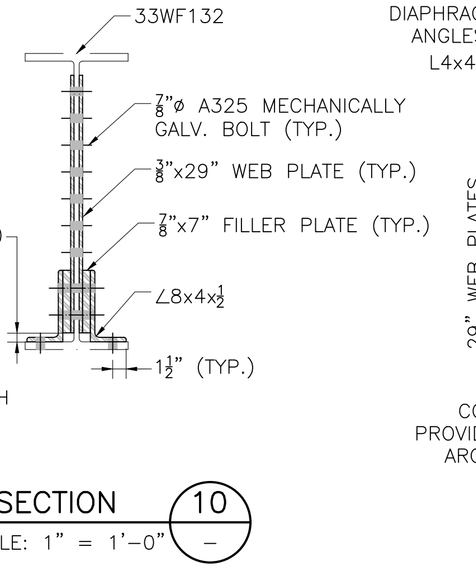
SECTION 9 — SCALE: 1" = 1'–0"

BEAM END REPAIR TYPE A

SCALE: 1" = 1'–0"

BEAM END REPAIR TYPE A C–05–035 (060)			
BEAM NO.	LOCATION	LENGTH A (IN)	LENGTH B (IN)
1	W. ABUT.	24	48
4	W. ABUT.	20	20
4	E. ABUT.	24	72

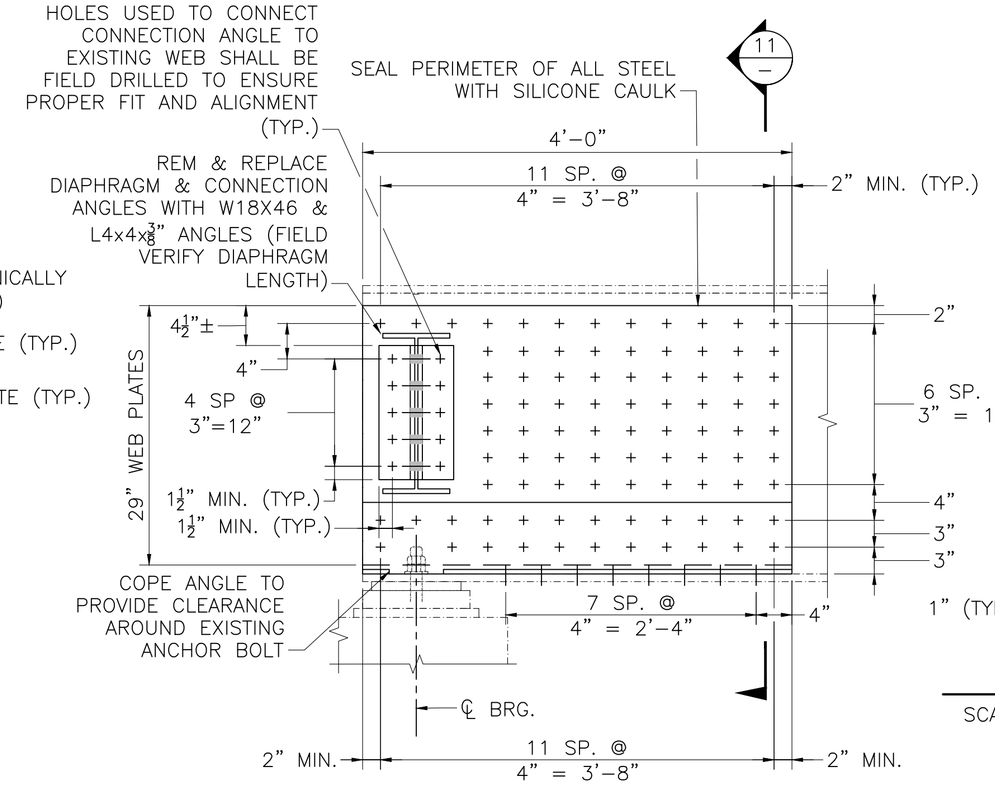


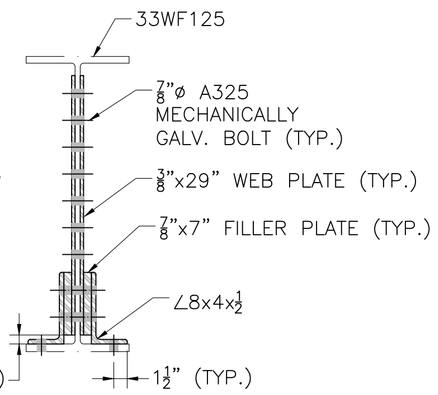


SECTION 10 — SCALE: 1" = 1'–0"

BEAM END REPAIR TYPE B

SCALE: 1" = 1'–0"

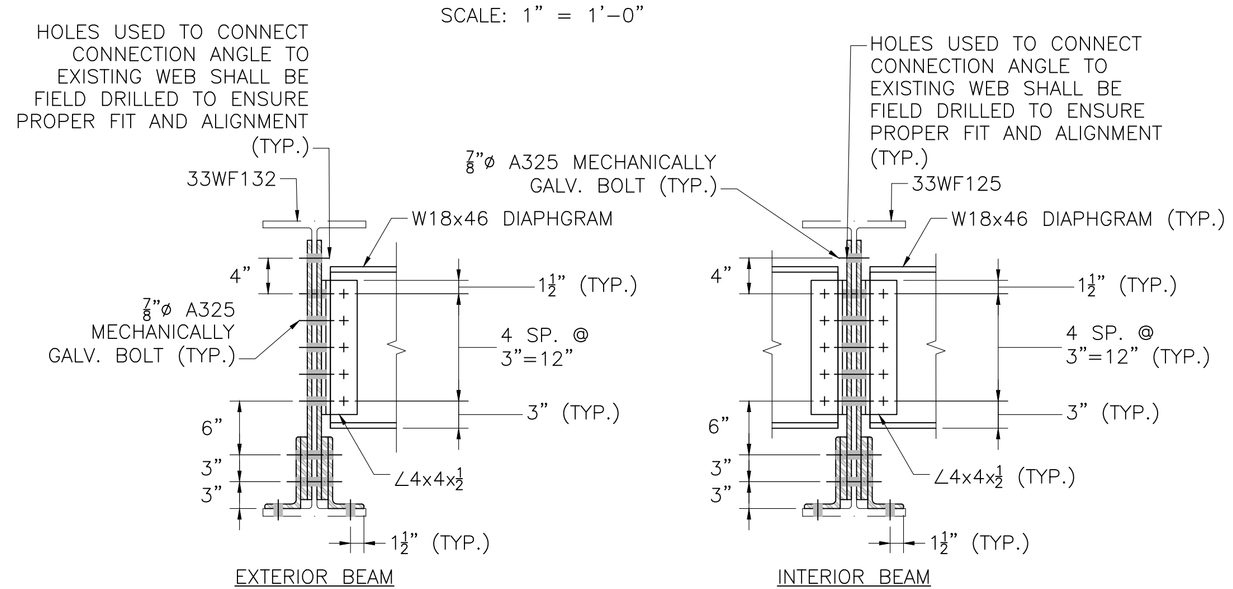




SECTION 11 — SCALE: 1" = 1'–0"

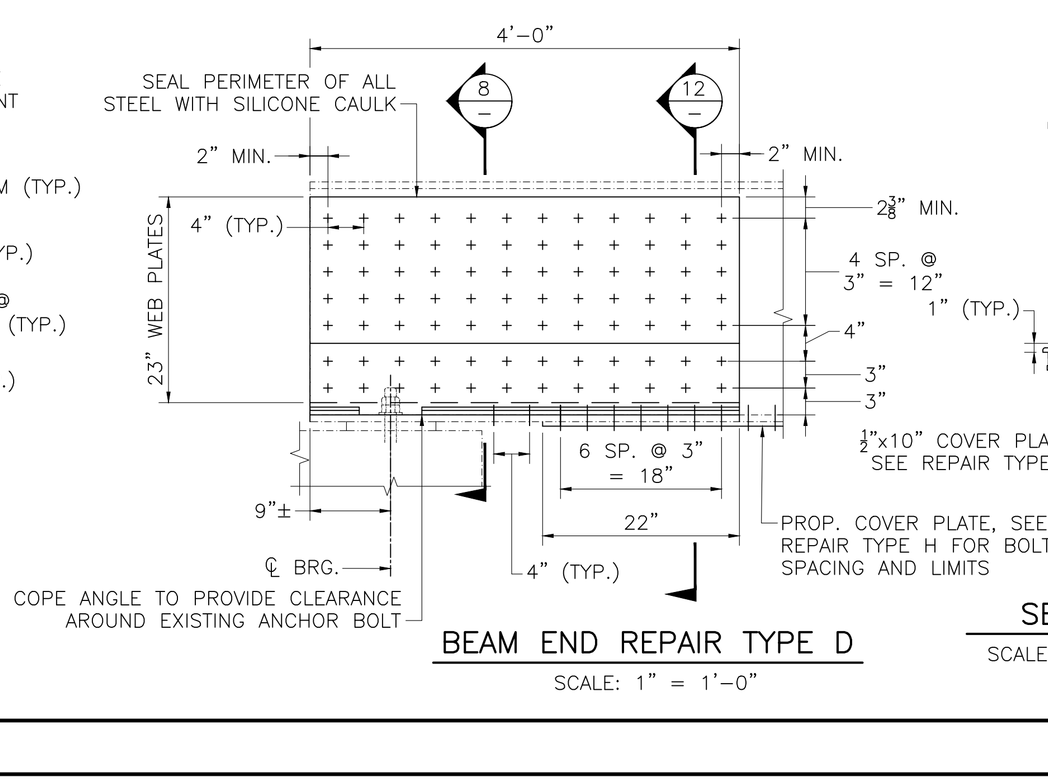
BEAM END REPAIR TYPE C

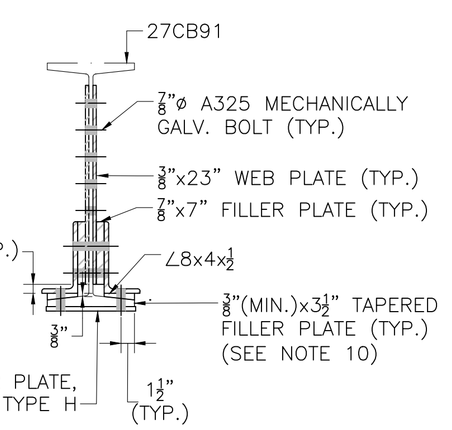
SCALE: 1" = 1'–0"



DIAPHRAGM CONNECTION DETAILS

SCALE: 1" = 1'–0"





SECTION 12 — SCALE: 1" = 1'–0"

BEAM END REPAIR TYPE D

SCALE: 1" = 1'–0"

DISTRICT 1 - MULTIPLE LOCATIONS
MULTIPLE LOCATIONS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	18	34
	PROJECT FILE NO. 616282		

CONSTRUCTION DETAILS
SUPERSTRUCTURE REPAIR DETAILS (1 OF 2)

NOTES:

1. CLEAN THE CONTACT SURFACES OF EXISTING STEEL IN ACCORDANCE WITH SPECIAL PROVISIONS. THE CONTACT SURFACES SHALL BE FREE OF PAINT, OIL, AND GREASE, AND SHALL PROVIDE THE NECESSARY SLIP RESISTANCE FOR CLASS A SLIP CRITICAL CONNECTIONS.
2. ENGINEER TO INSPECT CLEANED REPAIR AREA AND VERIFY REPAIR LIMITS BASED ON CONDITIONS EXPOSED BY CLEANING.
3. THE BEAM SHALL BE INSPECTED FOR DAMAGE DUE TO CONTRACTOR OPERATIONS. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTORS' EXPENSE.
4. IN LOCATIONS WHERE HEAVY DETERIORATION HAS OCCURRED OR AS DIRECTED BY THE ENGINEER, EPOXY REPAIR FAIRING COMPOUND SHALL BE APPLIED OVER THE PRIME COAT AS FOLLOWS:
   A. THE EPOXY REPAIR COMPOUND SHALL BE APPLIED TO THE DETERIORATED AREAS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL THE METHODS, PROCEDURES, AND MATERIALS TO BE USED FOR THE WORK.
   B. THE REPAIR COMPOUND SHALL ONLY BE APPLIED TO THOSE OF THE EXISTING STEEL THAT EXHIBIT SEVERE SECTION LOSS TO COMPLETELY FILL THE IRREGULARITIES IN THE EXISTING STEEL SURFACES SUCH THAT NO VOIDS REMAIN BETWEEN THE PLIES OF THE EXISTING STEEL AND THE PROPOSED STRENGTHENING STEEL IN THE FINAL REPAIRED CONDITION.
   C. THE PROPOSED REPAIR STEEL SHALL BE PROPERLY POSITIONED AND BROUGHT INTO FIRM CONTACT WITHIN THE WORKING TIME LIMITS OF THE EPOXY REPAIR COMPOUND. THE REPAIR STEEL SHALL BE SECURED IN PLACE USING POSITIONING BOLTS TENSIONED TO A SNUG TIGHT CONDITION AND CLAMPS OR OTHER MECHANICAL MEANS TO BRING THE PLIES OF THE EXISTING STEEL AND NEW STEEL INTO FIRM CONTACT. WELDING IS NOT ALLOWED.
   D. ONCE THE PROPOSED STEEL HAS BEEN SECURED INTO POSITION WITH THE POSITIONING BOLTS, AND THE EPOXY COMPOUND HAS CURED, THE REMAINING H.S BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH ITEM 107.97 STRUCTURAL STEEL REPAIRS OF THE SPECIAL PROVISIONS.
   E. EPOXY COMPOUND FOR STRUCTURAL STEEL REPAIRS SHALL BE A SOLVENT FREE, MOISTURE TOLERANT, EPOXY PASTE ADHESIVE SYSTEM. THE EPOXY PASTE SHALL BE DEVELOPED SPECIFICALLY FOR FILLING, SMOOTHING, SEALING, OR FAIRING APPLICATIONS ON METALS. THE PASTE SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S LATEST WRITTEN INSTRUCTIONS. AN ACCEPTABLE PRODUCT SHALL BE ONE OF THE FOLLOWING OR AN APPROVED EQUAL: ITW PHILADELPHIA RESINS REPAIR COMPOUND MANUFACTURED BY: ITW PHILADELPHIA RESINS, SIKADUR 31, HI–MOD GEL MANUFACTURED BY: SIKA CORPORATION, DEVCON PLASTIC STEEL PUTTY (A) MANUFACTURED BY: ITW DEVCON, FX–738 METAL FILLED EPOXY MANUFACTURED BY: SIMPSON STRONG–TIE.
5. STEEL ELEMENTS FOR REPAIR SHALL BE BOLTED TO EXISTING STEEL SURFACES.
6. STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M270 GRADE 36 OR GRADE 50. IT SHALL BE CONSIDERED A MAIN MEMBER AND CONFORM TO THE CHARPY V–NOTCH REQUIREMENTS OF AASHTO M270 ZONE T2.
7. IN THE CASE THAT ANY STEEL REPAIR ANGLE INTERFERES WITH THE EXISTING ANCHOR BOLT, A LEG OF THE ANGLE CAN BE COPED TO PROVIDE CLEARANCE AROUND THE EXISTING ANCHOR BOLT.
8. CLEAN AND PAINT REPAIRED AREA PER SPECIAL PROVISIONS.
9. SEAL PERIMETER OF ALL STEEL WITH SILICONE CAULK.
10. CONTRACTOR SHALL FIELD VERIFY THE DETERIORATION AND SLOPE OF THE EXISTING BOTTOM FLANGE. THE TOP SURFACE OF THE PLATE SHALL BE LEVEL AND THE FILLER PLATE THICKNESS SHALL BE ADJUSTED TO ENSURE THE HEIGHT OF THE PLATE EXTENDS A DISTANCE OF ⅜" ABOVE THE ORIGINAL BOTTOM FLANGE SECTION.

JULY 18, 2026	PS&E R2 SUBMISSION
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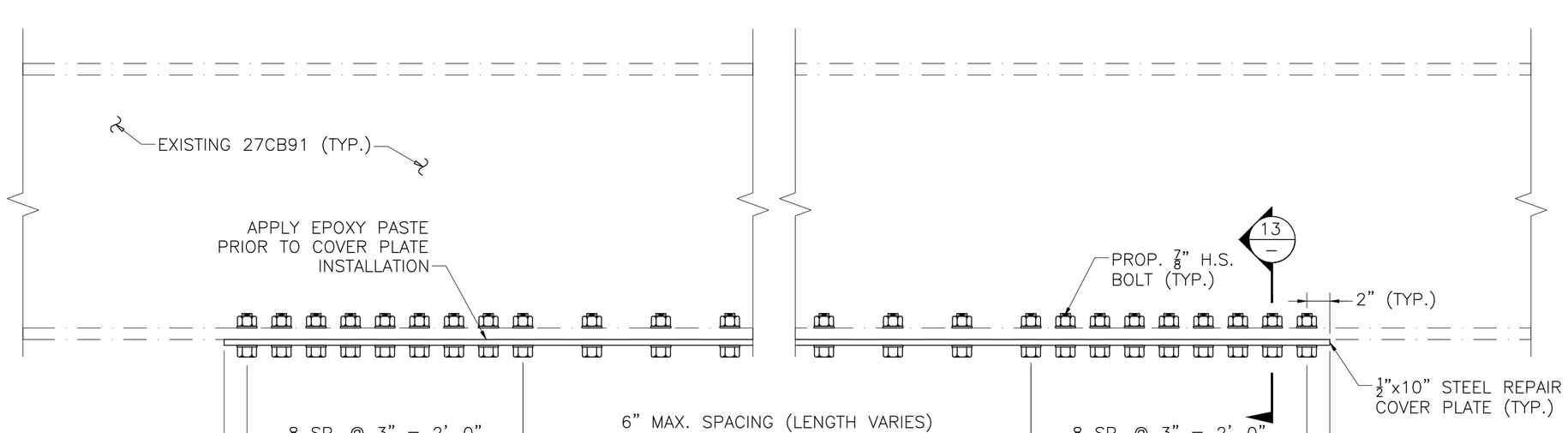
A00803 - 20
Proposal No. 616282-135581
BR22-23_SUPERSTRUCTURE REPAIR DETAILS.DWG Plotted on 30-Jun-2026 10:19 AM
PS&E R2 Submission 30-June-2026

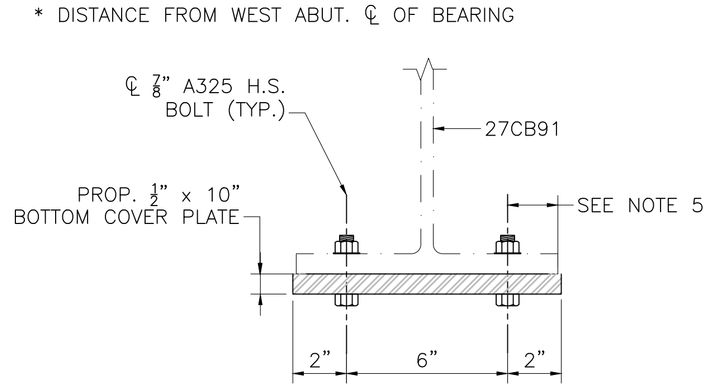
BR22-23_SUPERSTRUCTURE REPAIR DETAILS.DWG Plotted on 30-Jun-2026 10:23 AM



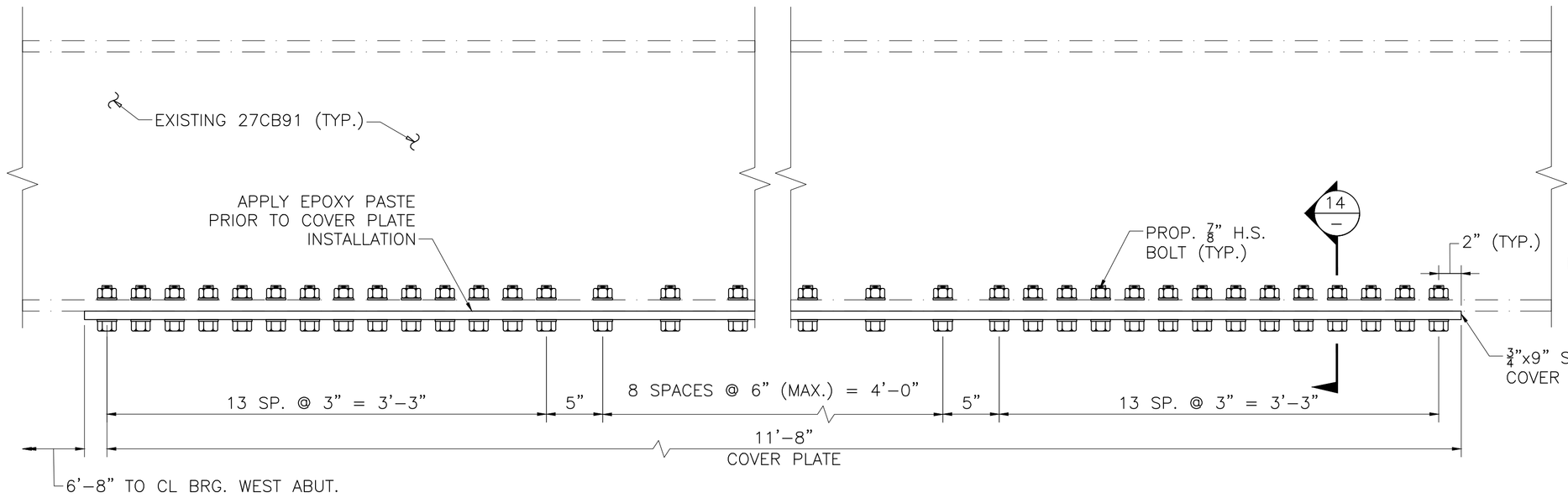
REPAIR TYPE H
SCALE: 1½" = 1'-0"

MIDSPAN REPAIR TYPE H			
C-05-035 (060)			
BEAM NO.	START*	END*	LENGTH (FT)
1	27'-3"	35'-9"	8.5
2	5'-9"	11'-3"	5.5
3	3'-9"	10'-3"	6.5

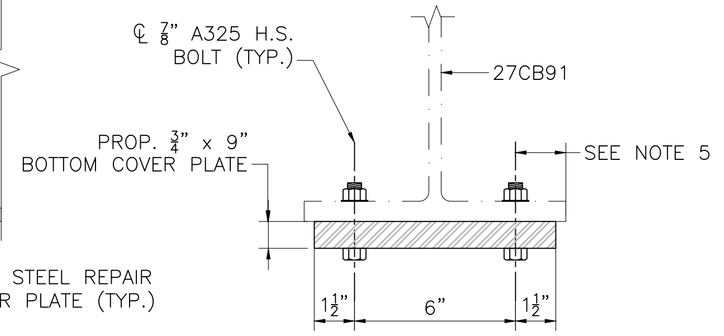
* DISTANCE FROM WEST ABUT. ℄ OF BEARING



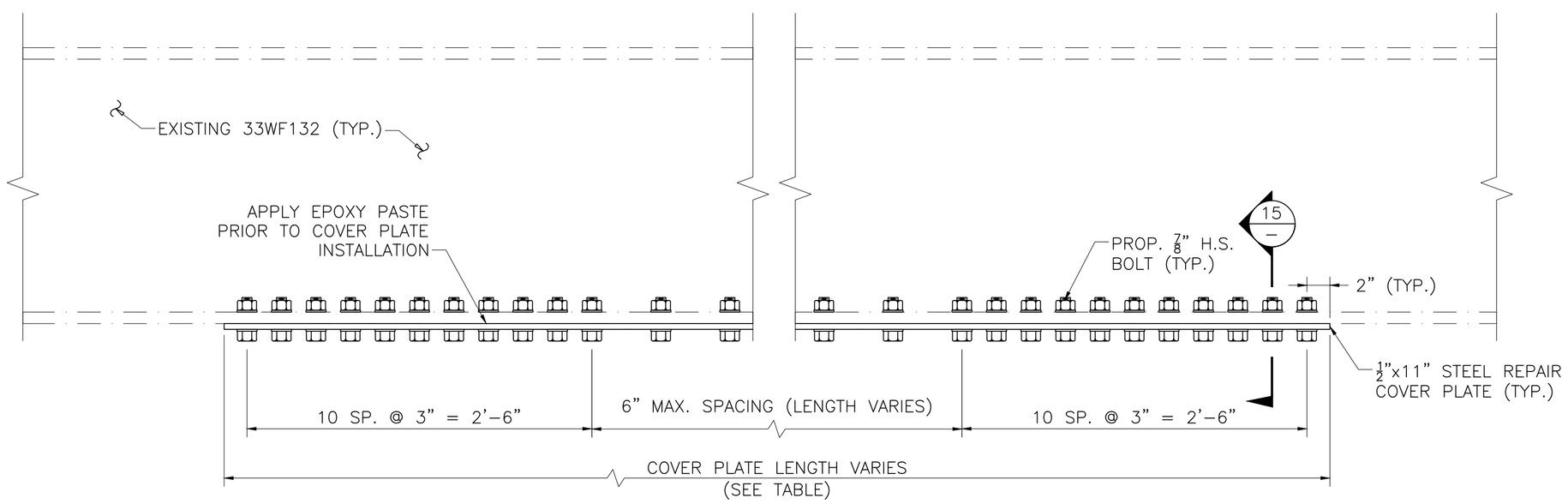
SECTION 13
SCALE: 3" = 1'-0"



REPAIR TYPE I
SCALE: 1½" = 1'-0"



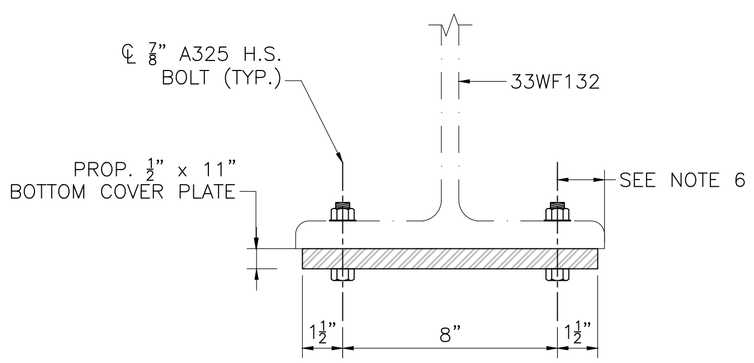
SECTION 14
SCALE: 3" = 1'-0"



REPAIR TYPE J
SCALE: 1½" = 1'-0"

MIDSPAN REPAIR TYPE J			
BEAM NO.	START*	END*	LENGTH (FT)
1	15'-0"	36'-0"	21
7	13'-0"	38'-0"	25

* DISTANCE FROM SOUTH ABUT. ℄ OF BEARING



SECTION 15
SCALE: 3" = 1'-0"

SUGGESTED CONSTRUCTION SEQUENCE:

1. CLEAN EXISTING STEEL AS DESCRIBED IN THE SPECIAL PROVISIONS.
2. ENGINEER TO INSPECT CLEANED REPAIR AREA AND ADJUST REPAIR LIMITS IF NECESSARY.
3. PLACE TRAFFIC CONTROL MEASURES, CLOSING THE LANE ABOVE THE REPAIR TO TRAFFIC.
4. FIELD DRILL HOLES IN THE BOTTOM FLANGE OF THE EXISTING BEAM USING THE PREDRILLED REPAIR COVER PLATE.
5. APPLY EPOXY PASTE TO UNDERSIDE OF BOTTOM FLANGE FILLING IN PITTED AREA THAT IS TO RECEIVE THE REPAIR COVER PLATE.
6. INSTALL THE PROPOSED REPAIR COVER PLATE. TIGHTEN THE BOLTS SNUG TIGHT BEFORE THE EPOXY HAS SET, THEN COMPLETE FINAL TIGHTENING OF BOLTS.
7. PAINT REPAIRED AREA PER SPECIAL PROVISIONS.

NOTES:

1. ACTUAL LIMITS OF SECTION LOSS SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD. REPAIR LIMITS SHALL BE ADJUSTED ACCORDINGLY AS NEEDED.
2. THE CONTRACTOR SHALL APPLY EPOXY PASTE TO THE MATING SURFACES BETWEEN THE EXISTING STRINGER FLANGE AND REPAIR COVER PLATES TO FILL IN PITS AND VOIDS. THE REPAIR COVER PLATE SHALL BE FIT FLUSH AND TIGHT AGAINST THE EXISTING FLANGE AND BOLTS SHALL BE SNUG TIGHTENED IN PLACE PRIOR TO SETTING OF THE EPOXY PASTE.
3. BOLTED CONNECTIONS SHALL BE CONSIDERED SLIP-CRITICAL WITH CLASS A FAYING SURFACES.
4. FOR LOADING RESTRICTION SEE SPECIAL PROVISIONS.
5. FLANGE WIDTHS OF 27CB91 HISTORIC SHAPES VARY FROM 9.75" TO 10". CENTER REPAIR PLATE BELOW BOTTOM FLANGE.
6. FLANGE WIDTHS OF 33WF132 HISTORIC SHAPES ARE APPROXIMATELY 11.51". CENTER REPAIR PLATE BELOW BOTTOM FLANGE.

JULY 18, 2026	PS&E R2 SUBMISSION
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PS&E R2 Submission 30-June-2026
Proposal No. 616282-135581
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Proposal No. 616282-135581

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GENERAL NOTES:

1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.
2. ALL WORK ZONES AND DETOURS ARE ESTABLISHED FOR 24-HOURS A DAY. TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
3. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
4. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
5. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS 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).
6. THE CONTRACTOR SHALL MAINTAIN SAFE AND REASONABLE ACCESS TO AND FROM ABUTTING PROPERTIES AT ALL TIMES. THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 48 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE TEMPORARY CLOSURE OF ACCESS TO THE ABUTTER'S PROPERTY, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT, AND SIMILAR OPERATIONS.
7. THE FIRST TEN PLASTIC DRUMS OF ANY MERGING TAPER SHALL BE MOUNTED WITH SEQUENTIAL FLASHING LIGHTS.
8. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
9. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
10. MINIMUM LANE WIDTH IS TO BE 10 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
11. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.

TEMPORARY TRAFFIC CONTROL PLAN SETUP TABLE OF CONTENTS:

BRIDGE	TOWN	ROADWAY	SHEETS	CASE	TIMING	DETAIL
A-13-014 (0FN)	ASHFIELD	APPLE VALLEY ROAD	SEE SHEET 21	DETOUR	DAY 7 AM - 3:30 PM	MODIFIED MUTCD FIGURE 6P-8.
A-13-020 (0FM)	ASHFIELD	APPLE VALLEY ROAD	SEE SHEET 22	DETOUR	DAY 7 AM - 3:30 PM	MODIFIED MUTCD FIGURE 6P-8.
A-13-026 (5CT)	ASHFIELD	CREAMERY ROAD	SEE SHEET 23 & 24	LANE CLOSURE ON TWO LANE ROAD	DAY 7 AM - 3:30 PM	MODIFIED MUTCD FIGURE 6P-11.
H-13-004 (0F8)	HAWLEY	WEST HAWLEY ROAD	SEE SHEET 25 & 26	LANE CLOSURE ON TWO LANE ROAD	DAY 7 AM - 3:30 PM	MODIFIED MUTCD FIGURE 6P-11.
C-05-035 (0G0)	CHARLEMONT	BURNT HILL ROAD	SEE SHEET 27 & 28	ROAD CLOSURE AND LANE CLOSURE ON TWO LANE ROAD	DAY 7 AM - 3:30 PM	MODIFIED MUTCD FIGURE 6P-11.
C-15-002 (041)	CLARKSBURG	MIDDLE ROAD	SEE SHEET ## & ##	LANE CLOSURE ON TWO LANE ROAD	DAY 7 AM - 3:30 PM	MODIFIED MUTCD FIGURE 6P-11.
C-20-005 (0F2)	CONWAY	NORTH POLAND ROAD	SEE SHEET 29	DETOUR	DAY 7 AM - 3:30 PM	MODIFIED MUTCD FIGURE 6P-8.

DETAIL NOTES:

1. MODIFIED MUTCD 11TH EDITION FIGURE 6P-8. ROAD CLOSURE WITH AN OFF-SITE DETOUR (TA-8) FOR LOCAL ROADS. SEE MANUAL FOR EXAMPLE.
2. MODIFIED MUTCD 11TH EDITION FIGURE 6P-11. LANE CLOSURE ON A TWO-LANE ROAD WITH LOW TRAFFIC VOLUMES (TA-11) WITH STOP CONTROL. SEE MANUAL FOR EXAMPLE.

TEMPORARY TRAFFIC CONTROL LEGEND

- WORK ZONE
- SIGN
- DIRECTION OF TRAFFIC
- CONSTRUCTION BARRIER W/ REFLECTORS OR WARNING LIGHTS
- REFLECTORIZED PLASTIC DRUM OR 36" CONE
- PORTABLE CHANGEABLE MESSAGE SIGN
- DETOUR ROUTE

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

TAPER TYPE	TAPER LENGTH
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5L
SHOULDER TAPER	AT LEAST 0.33L
ONE-LANE, TWO-WAY TRAFFIC TAPER	50 FEET MIN, 100 FEET MAX
DOWNSTREAM TAPER	50 FEET MIN., 100 FEET MAX (PER LANE)
TANGENT LENGTH	AT LEAST 2L

SPEED LIMIT	TAPER LENGTH (L) FEET
40 MPH OR LESS	$L = WS^2/60$
45 MPH OR GREATER	$L = WS$

WHERE: L = TAPER LENGTH IN FEET

W = WIDTH OF OFFSET IN FEET

S = POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN MPH

SUGGESTED WORK ZONE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS**		
	A	B	C
URBAN (30MPH OR LESS)*	100 FEET	100 FEET	100 FEET
URBAN (35MPH OR GREATER)*	350 FEET	350 FEET	350 FEET
RURAL	500 FEET	500 FEET	500 FEET
EXPRESSWAY/FREEWAY	1,000 FEET	1,500 FEET	2,640 FEET

* ROAD TYPE TO BE DETERMINED BY MASSDOT OFFICE OF TRANSPORTATION PLANNING.

** DISTANCES ARE SHOWN IN FEET. THE COLUMN HEADINGS A, B, AND C ARE THE DIMENSIONS SHOWN IN THE DETAIL/ TYPICAL SETUP FIGURES. THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS. (THE "THIRD" SIGN IS THE FIRST ONE TYPICALLY ENCOUNTERED BY A DRIVER APPROACHING A TEMPORARY TRAFFIC CONTROL (TTC) ZONE.)

THE "THIRD" SIGN ABOVE IS TYPICALLY REFERRED TO AS AN "ADVANCE WARNING" SIGN ON THE TTCP SETUPS. THESE ADVANCE WARNING SIGNS ARE LOCATED PRIOR TO THE PROJECT LIMITS ON ALL APPROACHES (i.e. THE W20-1 SERIES (ROAD WORK XX FT) SIGNS), AND USUALLY REMAIN FOR THE DURATION OF THE PROJECT.

THE FIRST AND SECOND WARNING SIGNS ABOVE ARE REFERRED TO AS THE OPERATIONAL (DAY-TO-DAY) WORK ZONE SIGNS AND MAY BE MOVED DEPENDING ON WHERE THE SPECIFIC ROADWAY WORK FOR THAT DAY IS LOCATED.

MA-R2-10a SIGNS SHALL BE PLACED BETWEEN THE SECOND AND THIRD SIGNS AS DESCRIBED ABOVE.

MA-R2-10a, MA-R2-10e, AND W20-1 SERIES SIGNS ARE TO BE INCLUDED ON ALL DETAILS/TYPICAL SETUPS.

BUFFER SPACING

SPEED (MPH)	DISTANCE (FEET)
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730
75	820

BUFFER SPACING NOTES:

1. SPEED NOTED EQUALED TO POSTED SPEED, OFF-PEAK 85TH PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED.

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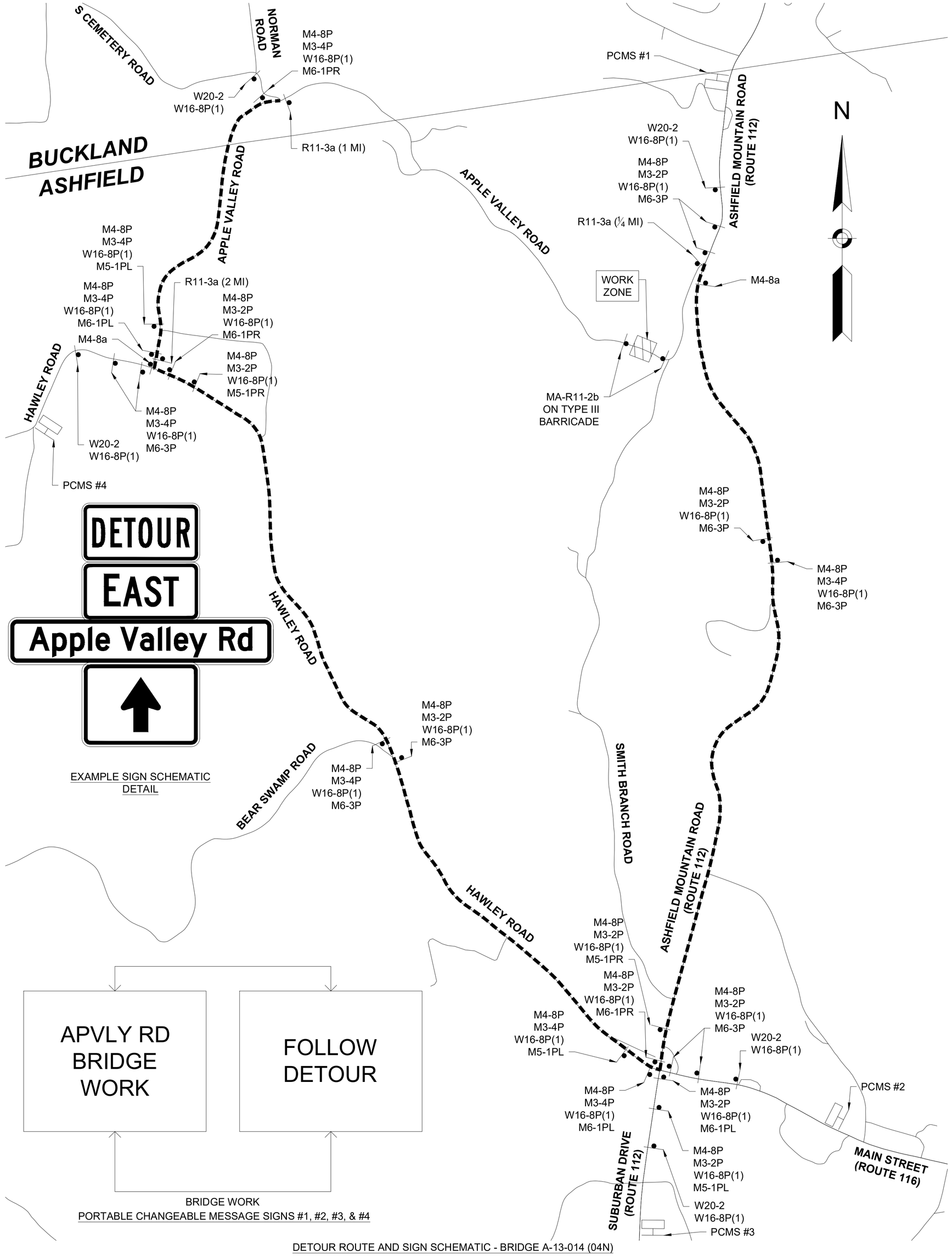

DETOUR ROUTE AND SIGN SCHEMATIC - BRIDGE A-13-014 (04N)
SCALE: 1"=750'

TEMPORARY TRAFFIC CONTROL LEGEND

- WORK ZONE
- SIGN
- DETOUR ROUTE
- PORTABLE CHANGEABLE MESSAGE SIGN

DISTRICT 1 - MULTIPLE LOCATIONS
MULTIPLE LOCATIONS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	21	34
PROJECT FILE NO.	616282		

TEMPORARY TRAFFIC CONTROL PLANS
A-13-014 (0FN)

TRAFFIC SIGN SUMMARY - BRIDGE A-13-014 (0FN)

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.		BACKGROUND	LEGEND	BORDER			
MA-R11-2b	48	30	BRIDGE CLOSED		(1.)		4	WHITE	BLACK	BLACK	0 ON TYPE III BARRICADE	10.00	40.00
R11-3a (1/4 MILE)	60	30	BRIDGE CLOSED ¼ MILE AHEAD LOCAL TRAFFIC ONLY		(2.)		1	WHITE	BLACK	BLACK	1	12.50	12.50
R11-3a (1 MILE)	60	30	BRIDGE CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY				1	WHITE	BLACK	BLACK	1	12.50	12.50
R11-3a (2 MILES)	60	30	BRIDGE CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY				1	WHITE	BLACK	BLACK	1	12.50	12.50
W16-8P(1)	68	12	Apple Valley Rd	6D	3.0 3.0	N/A	26	WHITE	BLACK	BLACK	26	5.67	147.33
W20-2	36	36	DETOUR AHEAD		(2.)		5	FL. ORANGE	BLACK	BLACK	0 5 W/ W16-8P(1)	9.00	45.00
M3-2P	24	12	EAST				12	WHITE	BLACK	BLACK	0 12 W/ W16-8P(1)	2.00	24.00
M3-4P	24	12	WEST				9	WHITE	BLACK	BLACK	0 9 W/ W16-8P(1)	2.00	18.00
M4-8P	24	12	DETOUR				21	FL. ORANGE	BLACK	BLACK	0 21 W/ W16-8P(1)	2.00	42.00
M4-8a	24	18	END DETOUR				2	FL. ORANGE	BLACK	BLACK	2	3.00	6.00
M5-1PL	21	15					3	FL. ORANGE	BLACK	BLACK	0 3 W/ W16-8P(1)	2.19	6.56
M5-1PR	21	15					2	FL. ORANGE	BLACK	BLACK	0 2 W/ W16-8P(1)	2.19	4.38
M6-1PL	21	15					3	FL. ORANGE	BLACK	BLACK	0 3 W/ W16-8P(1)	2.19	6.56
M6-1PR	21	15					3	FL. ORANGE	BLACK	BLACK	0 3 W/ W16-8P(1)	2.19	6.56
M6-3P	21	15					10	FL. ORANGE	BLACK	BLACK	0 10 W/ W16-8P(1)	2.19	21.88

SIGN SUMMARY NOTES:

(1.) MASSDOT STANDARD SIGNS.

(2.) CONTRACTOR TO FURNISH SIGNS CONSISTENT WITH 2023 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (11TH EDITION). SEE MANUAL FOR TEXT AND LEGEND DIMENSIONS.

JULY 18, 2026	PS&E R2 SUBMISSION
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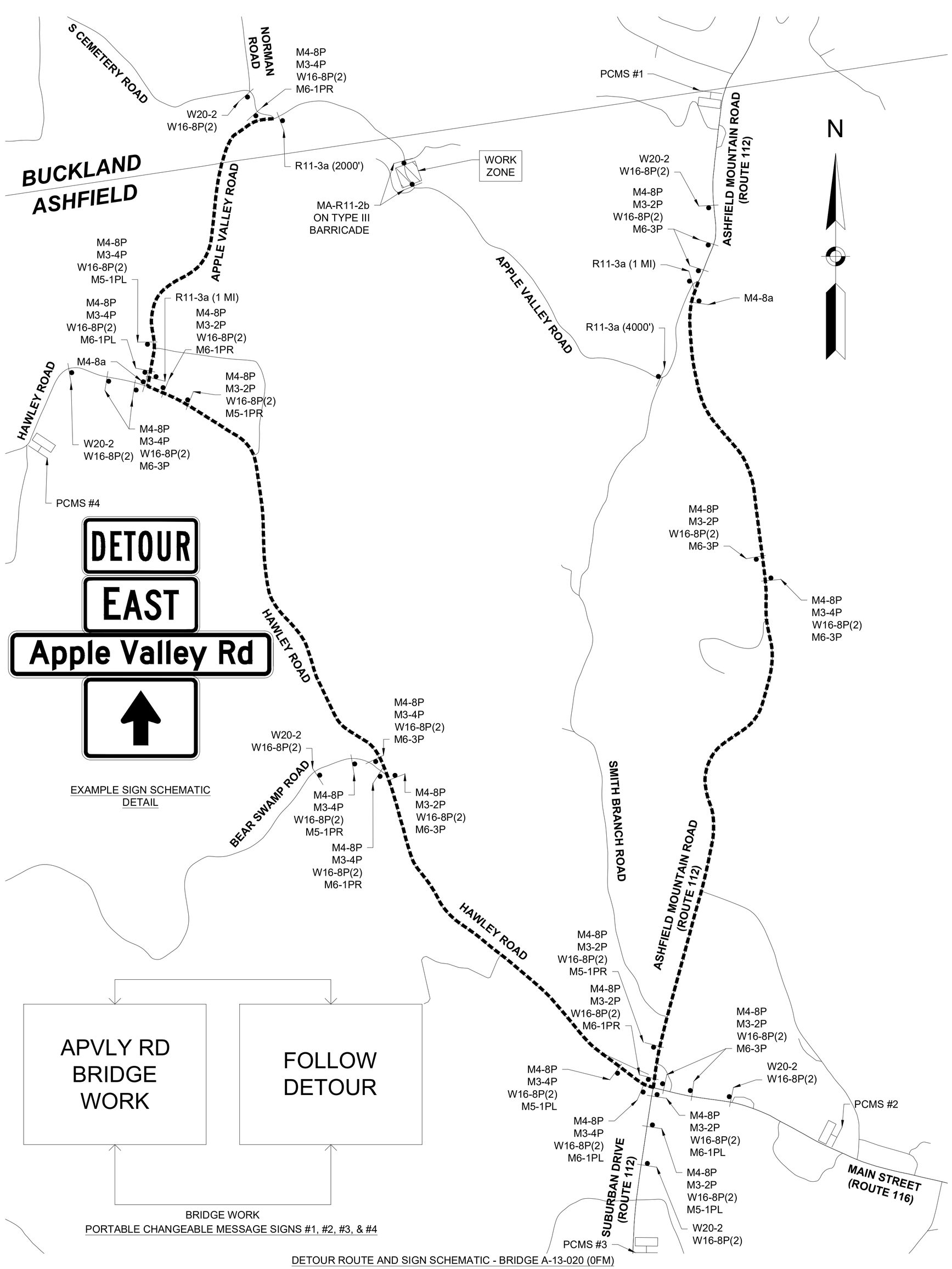
Proposal No. 616282-135581



EXAMPLE SIGN SCHEMATIC DETAIL

BRIDGE WORK
PORTABLE CHANGEABLE MESSAGE SIGNS #1, #2, #3, & #4

DETOUR ROUTE AND SIGN SCHEMATIC - BRIDGE A-13-020 (0FM)
SCALE: 1"=750'

TEMPORARY TRAFFIC CONTROL LEGEND

- WORK ZONE
- SIGN
- DETOUR ROUTE
- PORTABLE CHANGEABLE MESSAGE SIGN

DISTRICT 1 - MULTIPLE LOCATIONS
MULTIPLE LOCATIONS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	22	34
PROJECT FILE NO.	616282		

TEMPORARY TRAFFIC CONTROL PLANS
A-13-020 (0FM)

TRAFFIC SIGN SUMMARY - BRIDGE A-13-020 (0FM)

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.		BACKGROUND	LEGEND	BORDER			
MA-R11-2b	48	30	BRIDGE CLOSED		(1.)		4	WHITE	BLACK	BLACK	0 ON TYPE III BARRICADE	10.00	40.00
R11-3a (2000 FEET)	60	30	BRIDGE CLOSED 2000 FT AHEAD LOCAL TRAFFIC ONLY		(2.)		1	WHITE	BLACK	BLACK	1	12.50	12.50
R11-3a (4000 FEET)	60	30	BRIDGE CLOSED 4000 FT AHEAD LOCAL TRAFFIC ONLY				1	WHITE	BLACK	BLACK	1	12.50	12.50
R11-3a (1 MILE)	60	30	BRIDGE CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY				2	WHITE	BLACK	BLACK	2	12.50	25.00
W16-8P(2)	68	12	Apple Valley Rd	6D	3.0 3.0	N/A	29	FL. ORANGE	BLACK	BLACK	29	5.67	164.33
W20-2	36	36	DETOUR AHEAD		(2.)		6	FL. ORANGE	BLACK	BLACK	0 6 W/ W16-8P(2)	9.00	54.00
M3-2P	24	12	EAST				12	WHITE	BLACK	BLACK	0 12 W/ W16-8P(1)	2.00	24.00
M3-4P	24	12	WEST				11	WHITE	BLACK	BLACK	0 11 W/ W16-8P(1)	2.00	22.00
M4-8P	24	12	DETOUR				23	FL. ORANGE	BLACK	BLACK	0 23 W/ W16-8P(2)	2.00	46.00
M4-8a	24	18	END DETOUR				2	FL. ORANGE	BLACK	BLACK	2	3.00	6.00
M5-1PL	21	15					3	FL. ORANGE	BLACK	BLACK	0 3 W/ W16-8P(2)	2.19	6.56
M5-1PR	21	15					3	FL. ORANGE	BLACK	BLACK	0 3 W/ W16-8P(2)	2.19	6.56
M6-1PL	21	15					3	FL. ORANGE	BLACK	BLACK	0 3 W/ W16-8P(2)	2.19	6.56
M6-1PR	21	15					4	FL. ORANGE	BLACK	BLACK	0 4 W/ W16-8P(2)	2.19	8.75
M6-3P	21	15					10	FL. ORANGE	BLACK	BLACK	0 10 W/ W16-8P(2)	2.19	21.88

SIGN SUMMARY NOTES:

1. MASSDOT STANDARD SIGNS.
2. CONTRACTOR TO FURNISH SIGNS CONSISTENT WITH 2023 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (11TH EDITION). SEE MANUAL FOR TEXT AND LEGEND DIMENSIONS.

JULY 18, 2026	PS&E R2 SUBMISSION
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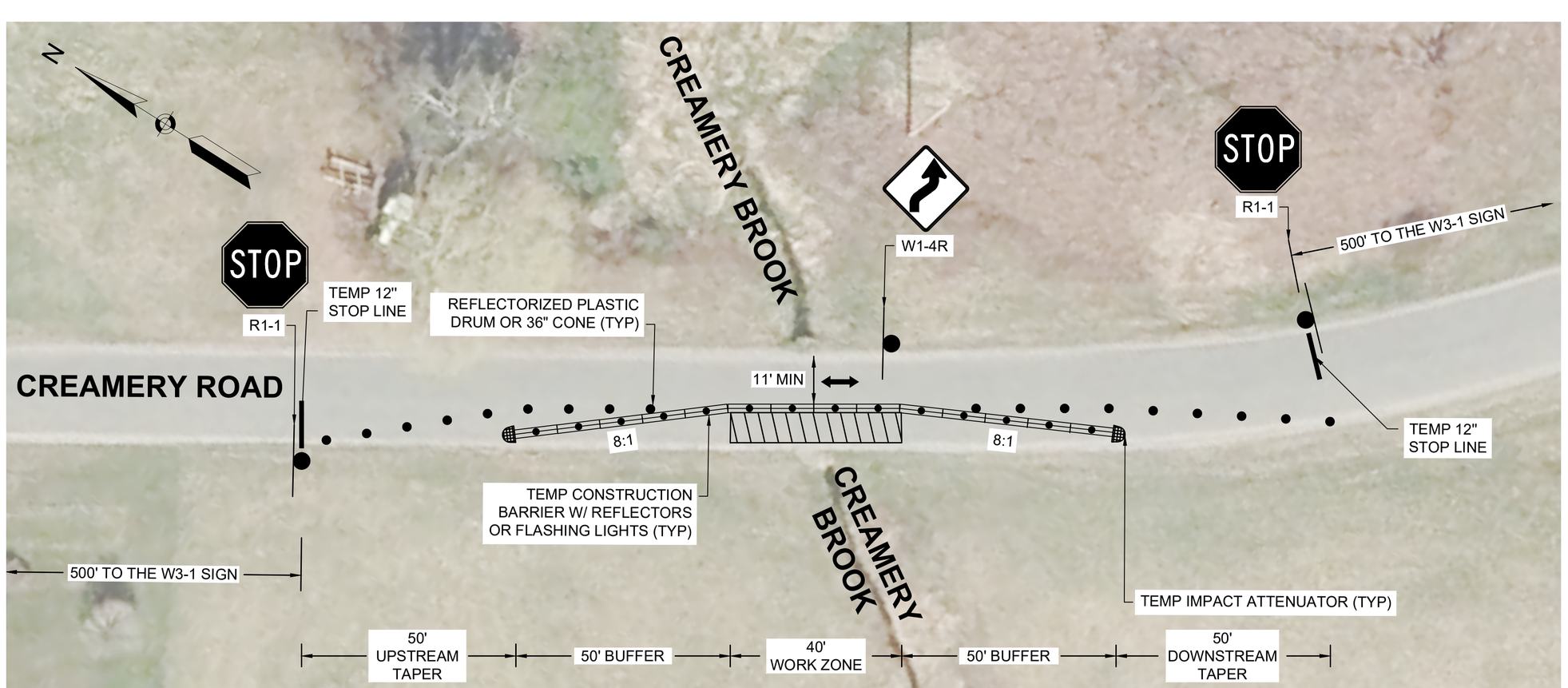
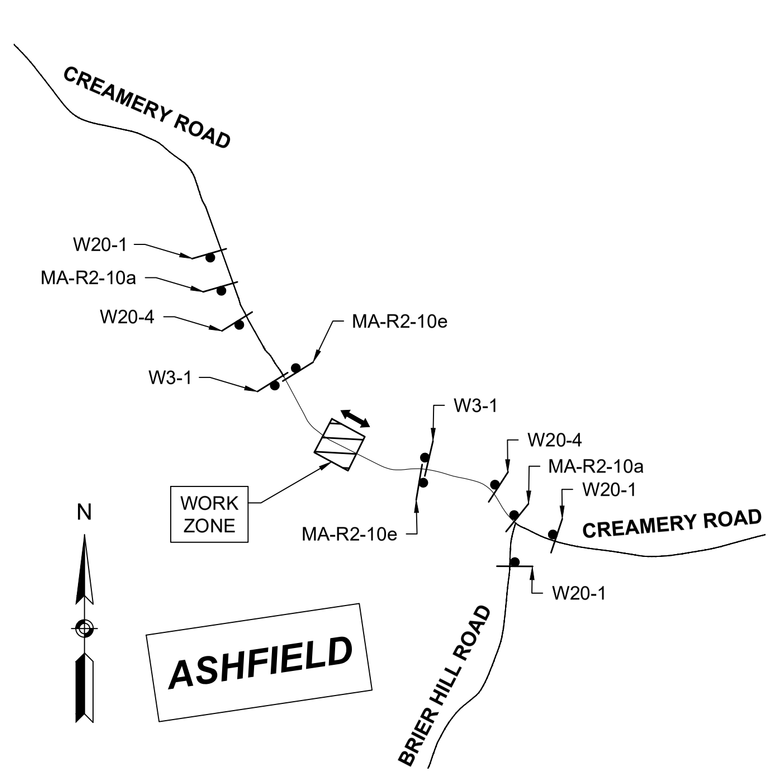
DISTRICT 1 - MULTIPLE LOCATIONS
MULTIPLE LOCATIONS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	23	34
PROJECT FILE NO.	616282		

TEMPORARY TRAFFIC CONTROL PLANS
A-13-026 (5CT) (1 OF 2)



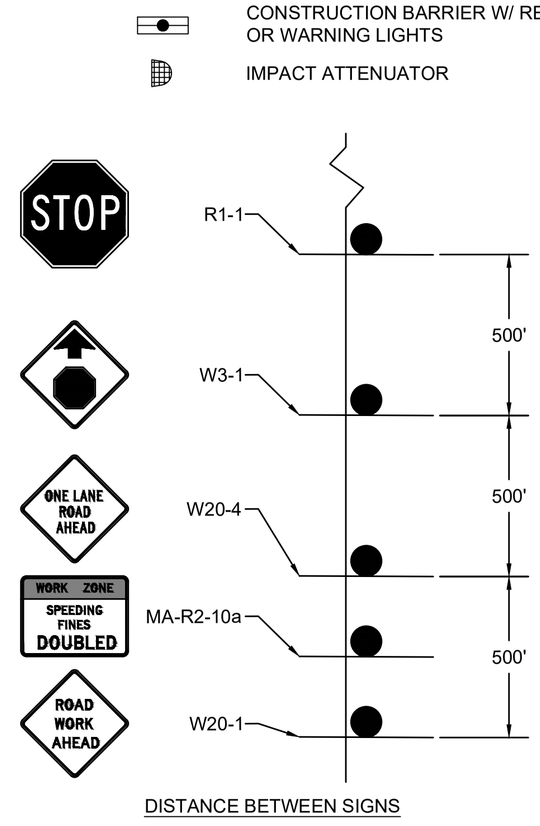
STAGE 1: LANE CLOSURE ON TWO LANE ROAD (BRIDGE WESTERLY LANE PARTIAL CLOSURE)
SCALE: 1"=20'



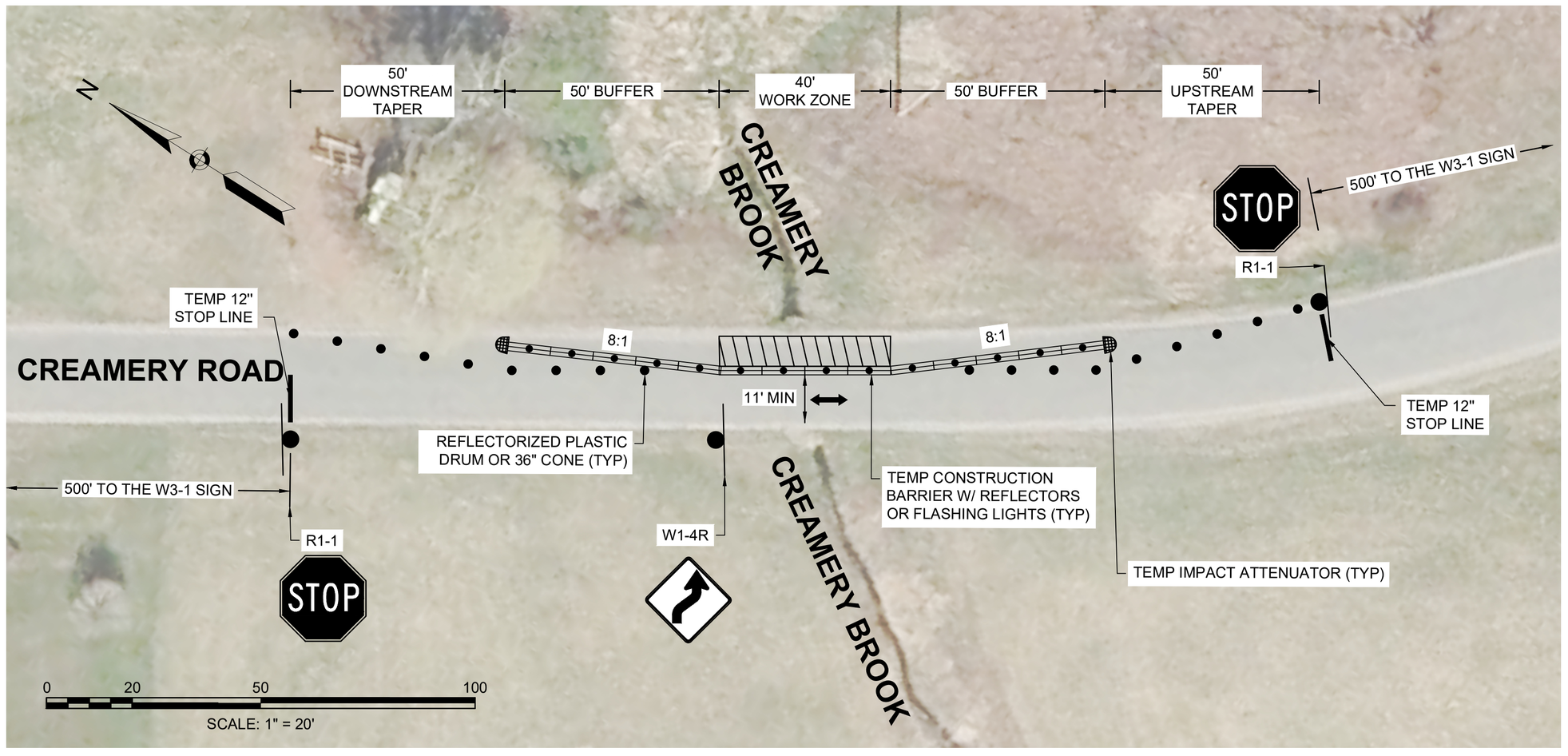
STAGE 1: SIGN SCHEMATIC
SCALE: 1"=750'

TEMPORARY TRAFFIC CONTROL LEGEND

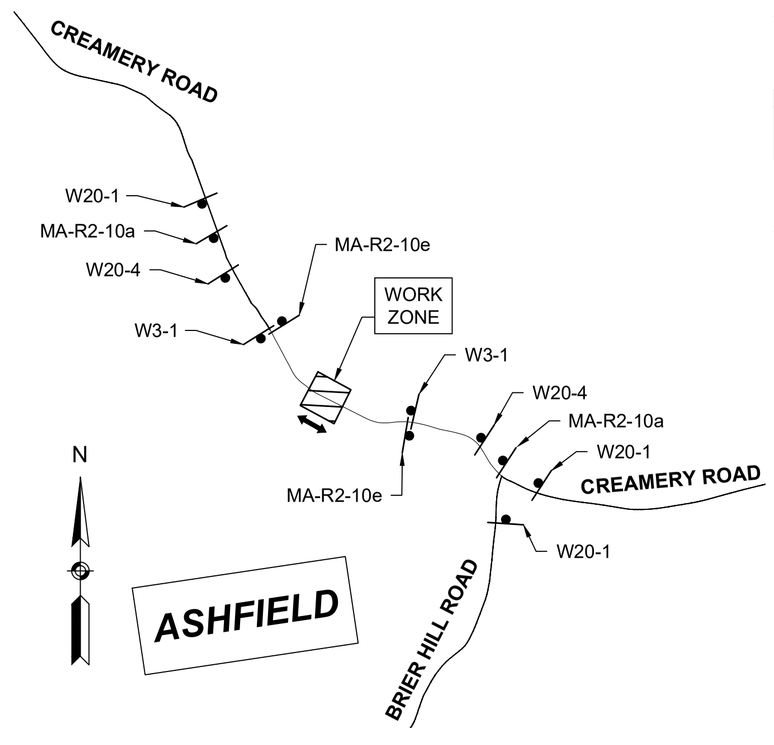
- WORK ZONE
- SIGN
- DIRECTION OF TRAFFIC
- REFLECTORIZED PLASTIC DRUM OR 36" CONE
- CONSTRUCTION BARRIER W/ REFLECTORS OR WARNING LIGHTS
- IMPACT ATTENUATOR



DISTANCE BETWEEN SIGNS



STAGE 2: LANE CLOSURE ON TWO LANE ROAD (BRIDGE EASTERLY LANE PARTIAL CLOSURE)
SCALE: 1"=20'



STAGE 2: SIGN SCHEMATIC
SCALE: 1"=750'

JULY 18, 2026	PS&E R2 SUBMISSION
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SHEET 23 OF 34 SHEETS BRIDGE NO. A-13-026 (5CT)

T1217.11_D1 BRIDGES TTCP.DWG Plotted on 30-Jun-2026 10:20 AM

Proposal No. 616282-135581

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STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	24	34
PROJECT FILE NO.	616282		

TEMPORARY TRAFFIC CONTROL PLANS
A-13-026 (5CT) (2 OF 2)

T1217.11_D1 BRIDGES TTCP.DWG Plotted on 30-Jun-2026 10:21 AM

Proposal No. 616282-135581

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TRAFFIC SIGN SUMMARY - BRIDGE A-13-026 (5CT)

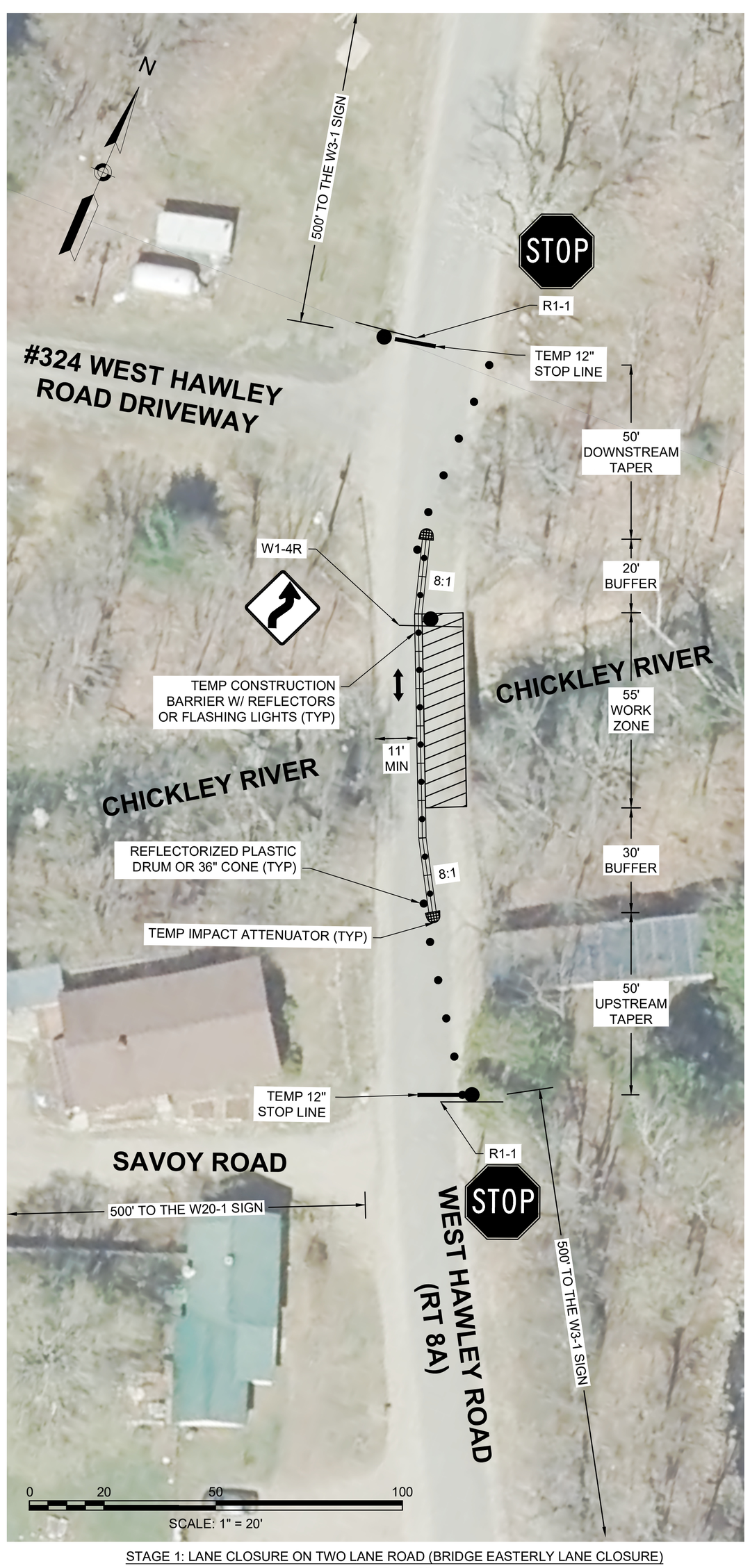
IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES)		LEGEND	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			NUMBER OF SUPPORTS REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACKGROUND	LEGEND	BORDER			
MA-R2-10a	48	36	WORK ZONE SPEEDING FINES DOUBLED	(1.)			2	FL. ORANGE / WHITE	BLACK	BLACK	2	12.00	24.00
MA-R2-10e	36	48	END ROAD WORK DOUBLE FINES END				2	FL. ORANGE / WHITE	BLACK	BLACK	2	12.00	24.00
R1-1	36	36	STOP	(2.)			2	RED	WHITE	WHITE	2	9.00	18.00
W1-4R	36	36					1	FL. ORANGE	BLACK	BLACK	1	9.00	9.00
W3-1	36	36					2	FL. ORANGE	BLACK WHITE RED	BLACK	2	9.00	18.00
W20-1(AHEAD)	36	36	ROAD WORK AHEAD				3	FL. ORANGE	BLACK	BLACK	3	9.00	27.00
W20-4	36	36	ONE LANE ROAD AHEAD				2	FL. ORANGE	BLACK	BLACK	2	9.00	18.00

SIGN SUMMARY NOTES:

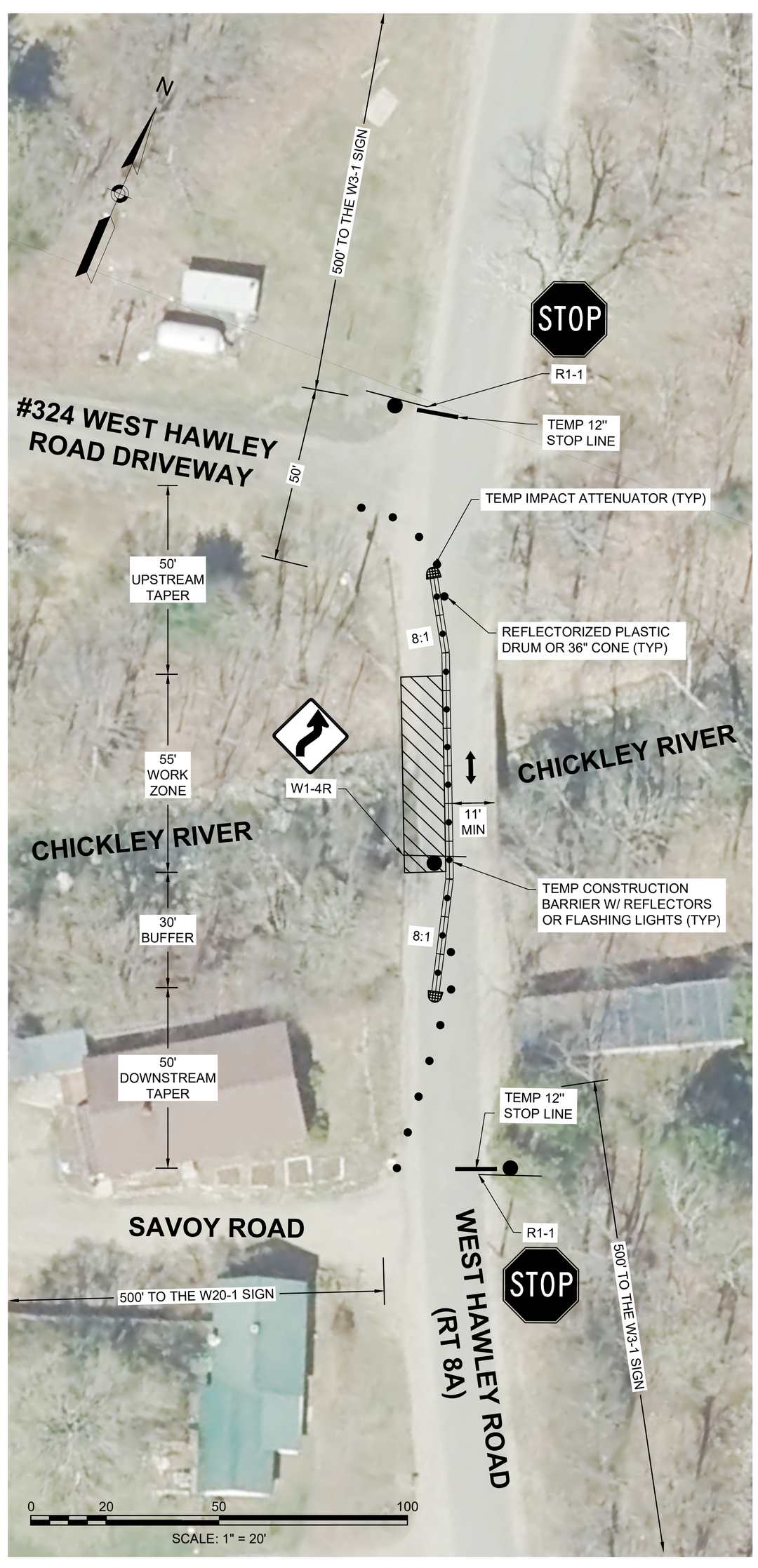
(1.) MASSDOT STANDARD SIGNS.

(2.) CONTRACTOR TO FURNISH SIGNS CONSISTENT WITH 2023 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (11TH EDITION). SEE MANUAL FOR TEXT AND LEGEND DIMENSIONS.

JULY 18, 2026	PS&E R2 SUBMISSION
USE ONLY PRINTS OF LATEST DATE	



STAGE 1: LANE CLOSURE ON TWO LANE ROAD (BRIDGE EASTERLY LANE CLOSURE)
SCALE: 1"=20'

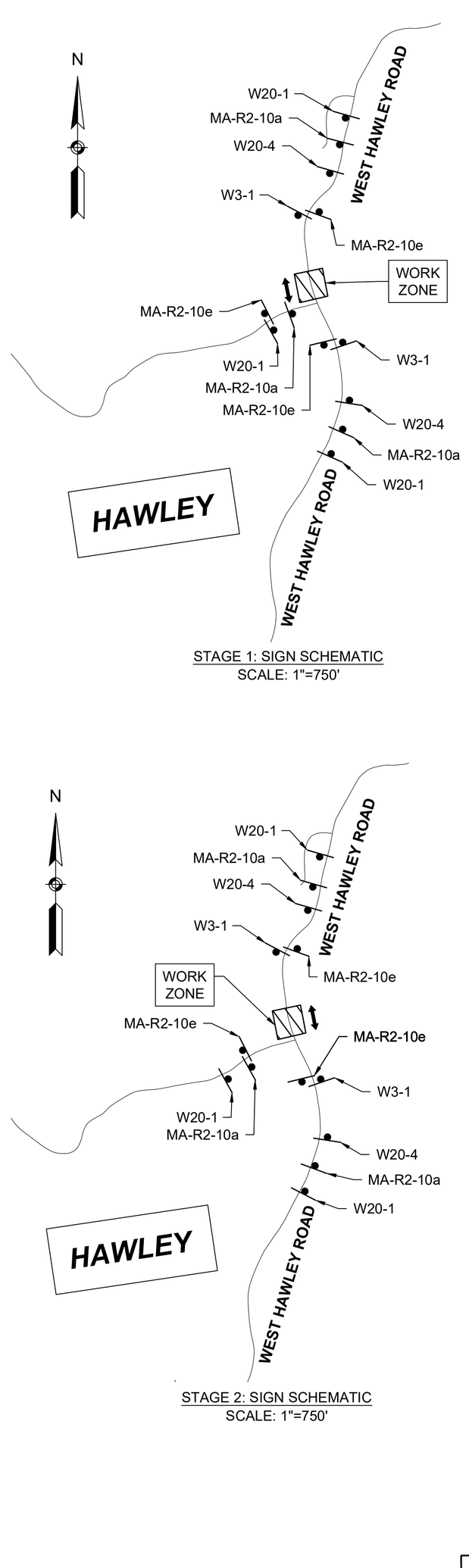


STAGE 2: LANE CLOSURE ON TWO LANE ROAD (BRIDGE WESTERLY LANE CLOSURE)
SCALE: 1"=20'

DISTRICT 1 - MULTIPLE LOCATIONS
MULTIPLE LOCATIONS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	25	34
PROJECT FILE NO.	616282		

TEMPORARY TRAFFIC CONTROL PLANS
H-13-004 (0F8) (1 OF 2)

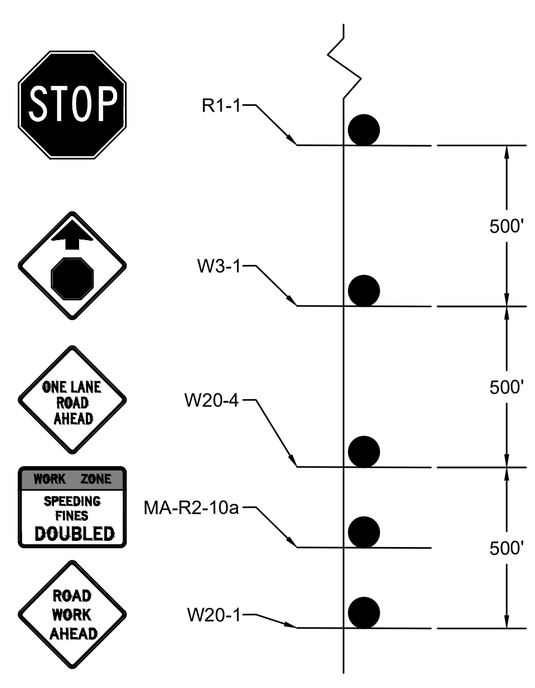


STAGE 1: SIGN SCHEMATIC
SCALE: 1"=750'

TEMPORARY TRAFFIC CONTROL LEGEND

- WORK ZONE
- SIGN
- DIRECTION OF TRAFFIC
- REFLECTORIZED PLASTIC DRUM OR 36" CONE
- CONSTRUCTION BARRIER W/ REFLECTORS OR WARNING LIGHTS
- IMPACT ATTENUATOR

STAGE 2: SIGN SCHEMATIC
SCALE: 1"=750'



DISTANCE BETWEEN SIGNS

JULY 18, 2026	PS&E R2 SUBMISSION
USE ONLY PRINTS OF LATEST DATE	

SHEET 25 OF 34 SHEETS BRIDGE NO. H-13-004 (0F8)

A00803 - 27

Proposal No. 616282-135581

T1217.11_D1 BRIDGES TTCP.DWG Plotted on 30-Jun-2026 10:18 AM

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	26	34
PROJECT FILE NO.	616282		

TEMPORARY TRAFFIC CONTROL PLANS
H-13-004 (0F8) (2 OF 2)

T1217.11_D1 BRIDGES TTCP.DWG Plotted on 30-Jun-2026 10:17 AM

Proposal No. 616282-135581

A00803 - 28

TRAFFIC SIGN SUMMARY - BRIDGE H-13-004 (0F8)

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.		BACKGROUND	LEGEND	BORDER			
MA-R2-10a	48	36	WORK ZONE / SPEEDING FINES DOUBLED		(1.)		3	FL. ORANGE / WHITE	BLACK	BLACK	3	12.00	36.00
MA-R2-10e	36	48	END ROAD WORK / DOUBLE FINES END				3	FL. ORANGE / WHITE	BLACK	BLACK	3	12.00	36.00
R1-1	36	36	STOP		(2.)		2	RED	WHITE	WHITE	2	9.00	18.00
W1-4R	36	36					1	FL. ORANGE	BLACK	BLACK	1	9.00	9.00
W3-1	36	36					2	FL. ORANGE	BLACK WHITE RED	BLACK	2	9.00	18.00
W20-1(AHEAD)	36	36	ROAD WORK AHEAD				3	FL. ORANGE	BLACK	BLACK	3	9.00	27.00
W20-4	36	36	ONE LANE ROAD AHEAD				2	FL. ORANGE	BLACK	BLACK	2	9.00	18.00

SIGN SUMMARY NOTES:

(1.) MASSDOT STANDARD SIGNS.

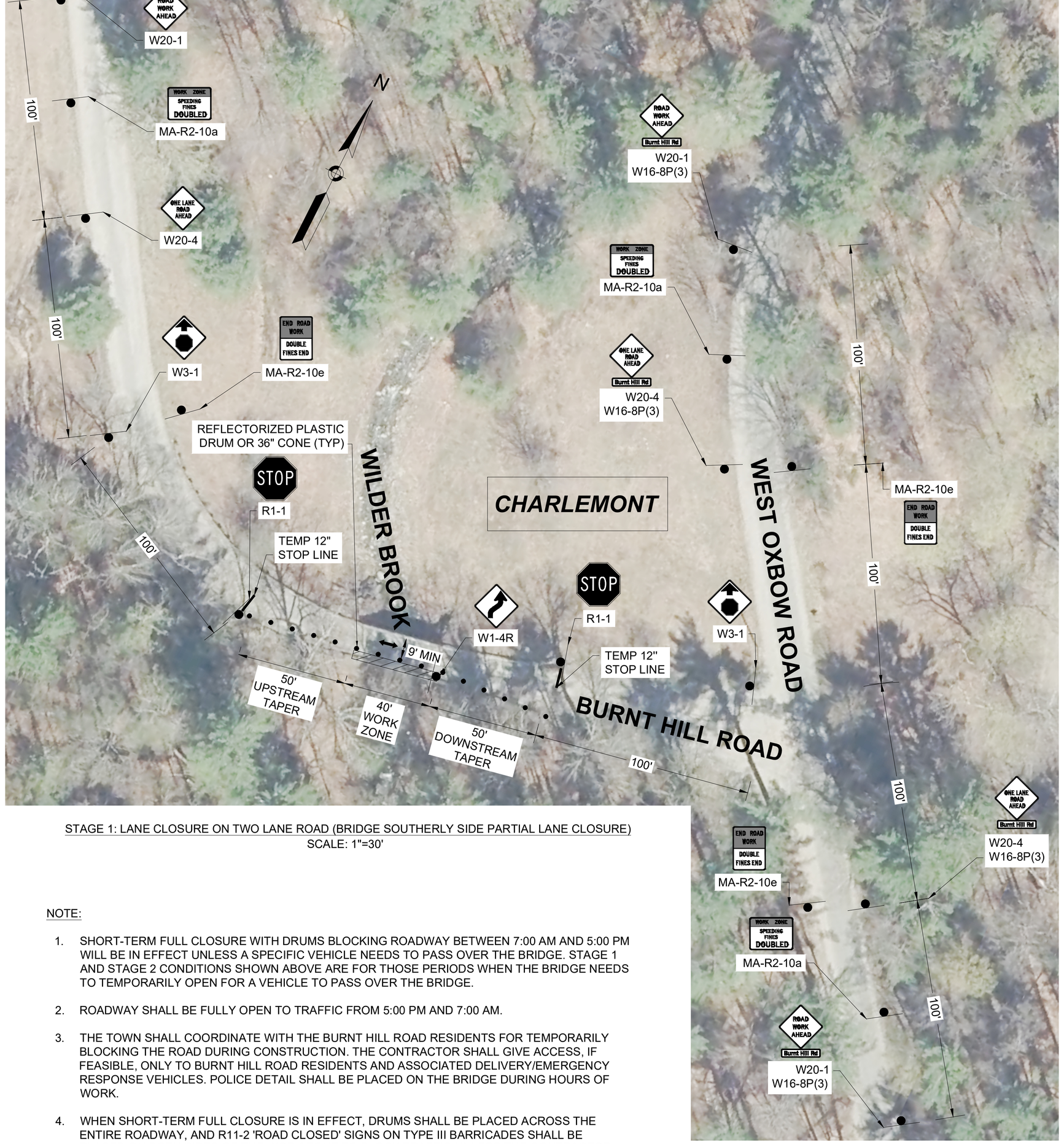
(2.) CONTRACTOR TO FURNISH SIGNS CONSISTENT WITH 2023 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (11TH EDITION). SEE MANUAL FOR TEXT AND LEGEND DIMENSIONS.

JULY 18, 2026	PS&E R2 SUBMISSION
USE ONLY PRINTS OF LATEST DATE	

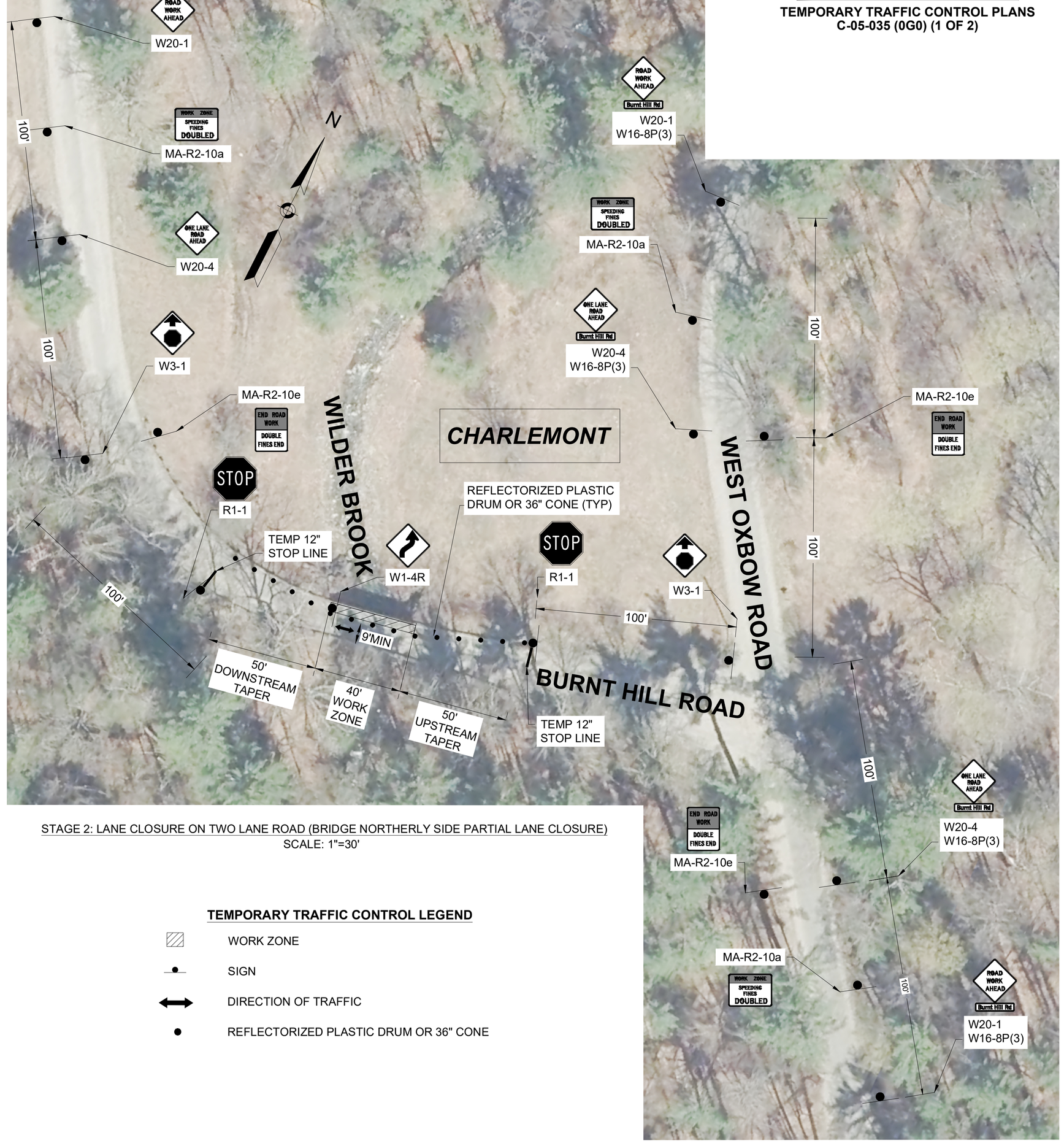
DISTRICT 1 - MULTIPLE LOCATIONS
MULTIPLE LOCATIONS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	27	34
PROJECT FILE NO.	616282		

TEMPORARY TRAFFIC CONTROL PLANS
C-05-035 (0G0) (1 OF 2)



STAGE 1: LANE CLOSURE ON TWO LANE ROAD (BRIDGE SOUTHERLY SIDE PARTIAL LANE CLOSURE)
SCALE: 1"=30'



STAGE 2: LANE CLOSURE ON TWO LANE ROAD (BRIDGE NORTHERLY SIDE PARTIAL LANE CLOSURE)
SCALE: 1"=30'

NOTE:

1. SHORT-TERM FULL CLOSURE WITH DRUMS BLOCKING ROADWAY BETWEEN 7:00 AM AND 5:00 PM WILL BE IN EFFECT UNLESS A SPECIFIC VEHICLE NEEDS TO PASS OVER THE BRIDGE. STAGE 1 AND STAGE 2 CONDITIONS SHOWN ABOVE ARE FOR THOSE PERIODS WHEN THE BRIDGE NEEDS TO TEMPORARILY OPEN FOR A VEHICLE TO PASS OVER THE BRIDGE.
2. ROADWAY SHALL BE FULLY OPEN TO TRAFFIC FROM 5:00 PM AND 7:00 AM.
3. THE TOWN SHALL COORDINATE WITH THE BURNT HILL ROAD RESIDENTS FOR TEMPORARILY BLOCKING THE ROAD DURING CONSTRUCTION. THE CONTRACTOR SHALL GIVE ACCESS, IF FEASIBLE, ONLY TO BURNT HILL ROAD RESIDENTS AND ASSOCIATED DELIVERY/EMERGENCY RESPONSE VEHICLES. POLICE DETAIL SHALL BE PLACED ON THE BRIDGE DURING HOURS OF WORK.
4. WHEN SHORT-TERM FULL CLOSURE IS IN EFFECT, DRUMS SHALL BE PLACED ACROSS THE ENTIRE ROADWAY, AND R11-2 'ROAD CLOSED' SIGNS ON TYPE III BARRICADES SHALL BE PLACED ON BOTH SIDES OF THE WORK ZONE TO BLOCK TRAFFIC UNLESS THE CONTRACTOR, AT THE DIRECTION OF THE POLICE DETAIL, TEMPORARILY MOVES THE DRUMS AND SIGNS WHEN A SPECIFIC VEHICLE NEEDS TO PASS OVER THE BRIDGE.
5. SEE SHEET 20 FOR OTHER GENERAL NOTES.

TEMPORARY TRAFFIC CONTROL LEGEND

- WORK ZONE
- SIGN
- DIRECTION OF TRAFFIC
- REFLECTORIZED PLASTIC DRUM OR 36" CONE

0 30 60 100
SCALE: 1" = 30'

JULY 18, 2026	PS&E R2 SUBMISSION
USE ONLY PRINTS OF LATEST DATE	

T1217.11_D1 BRIDGES TTCP.DWG Plotted on 30-Jun-2026 10:22 AM
Proposal No. 616282-135581
A00803 - 29

DISTRICT 1 - MULTIPLE LOCATIONS
MULTIPLE LOCATIONS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	28	34
PROJECT FILE NO.	616282		

TEMPORARY TRAFFIC CONTROL PLANS
C-05-035 (0G0) (2 OF 2)

TRAFFIC SIGN SUMMARY - BRIDGE C-05-035 (0G0)

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.		BACKGROUND	LEGEND	BORDER			
MA-R11-2b	48	30	BRIDGE CLOSED	(1.)			4	WHITE	BLACK	BLACK	0 ON TYPE III BARRICADE	10.00	40.00
MA-R2-10a	48	36	WORK ZONE SPEEDING FINES DOUBLED				3	FL. ORANGE / WHITE	BLACK	BLACK	3	12.00	36.00
MA-R2-10e	36	48	END ROAD WORK DOUBLE FINES END				3	FL. ORANGE / WHITE	BLACK	BLACK	3	12.00	36.00
R1-1	36	36	STOP	(2.)			2	RED	WHITE	WHITE	2	9.00	18.00
W1-4R	36	36					1	FL. ORANGE	BLACK	BLACK	1	9.00	9.00
W3-1	36	36					2	FL. ORANGE	BLACK WHITE RED	BLACK	2	9.00	18.00
W16-8P(3)	54	12	Burnt Hill Rd	6D	3.0 3.0	N/A	4	FL. ORANGE	BLACK	BLACK	4	4.50	18.00
W20-1(AHEAD)	36	36	ROAD WORK AHEAD	(2.)			3	FL. ORANGE	BLACK	BLACK	1 2 W/ W16-8P(3)	9.00	27.00
W20-4	36	36	ONE LANE ROAD AHEAD				3	FL. ORANGE	BLACK	BLACK	1 2 W/ W16-8P(3)	9.00	27.00

SIGN SUMMARY NOTES:

(1.) MASSDOT STANDARD SIGNS.

(2.) CONTRACTOR TO FURNISH SIGNS CONSISTENT WITH 2023 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (11TH EDITION). SEE MANUAL FOR TEXT AND LEGEND DIMENSIONS.

JULY 18, 2026	PS&E R2 SUBMISSION
USE ONLY PRINTS OF LATEST DATE	

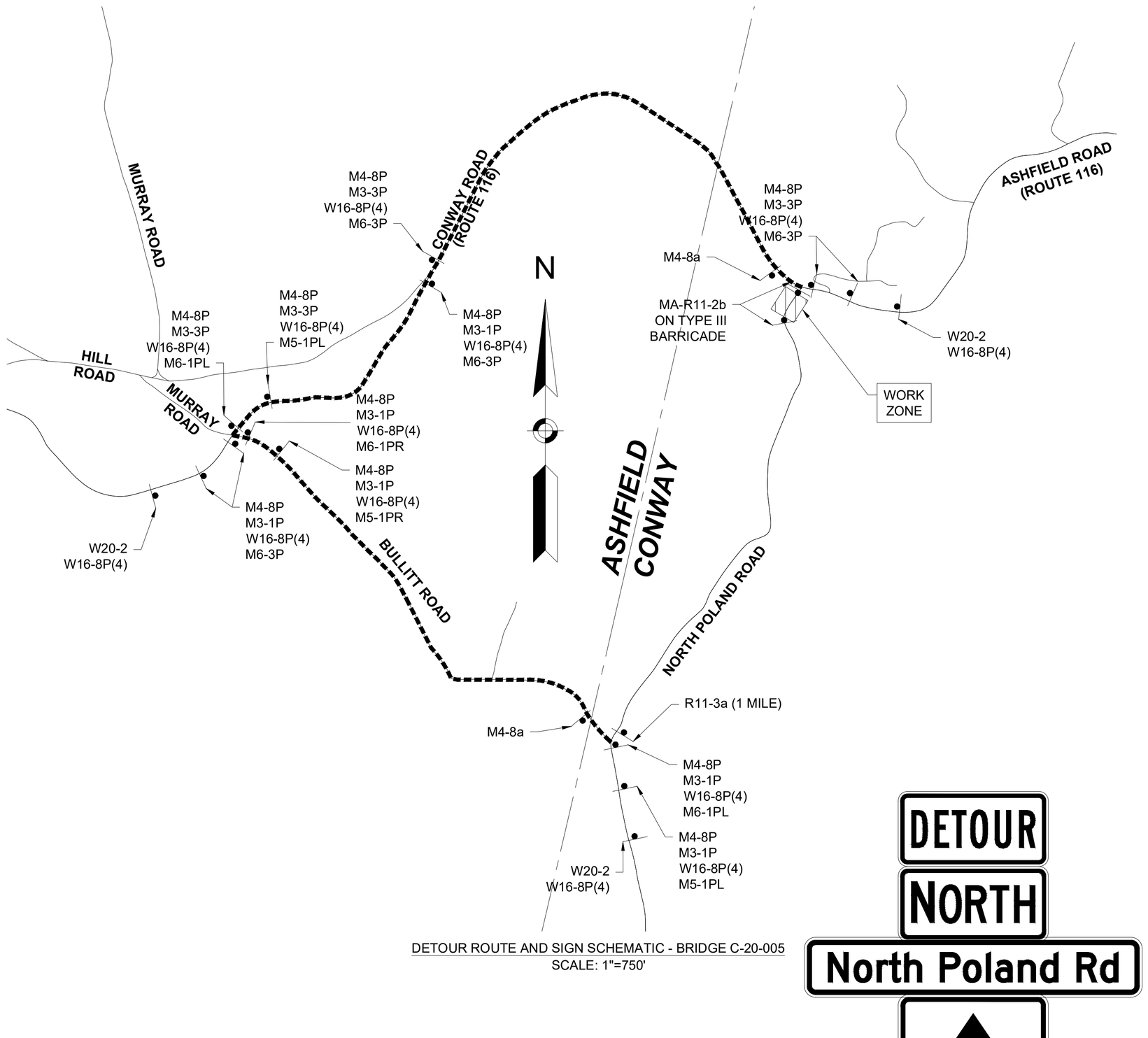
T1217.11_D1 BRIDGES TTCP.DWG Plotted on 30-Jun-2026 10:20 AM
Proposal No. 616282-135581
A00803 - 30

T1217.11_D1 BRIDGES TTCP (C-15-002 & C-20-005).DWG Plotted on 30-Jun-2026 10:22 AM

DISTRICT 1 - MULTIPLE LOCATIONS
MULTIPLE LOCATIONS

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	29	34
PROJECT FILE NO.	616282		

TEMPORARY TRAFFIC CONTROL PLANS
C-20-005 (0F2)

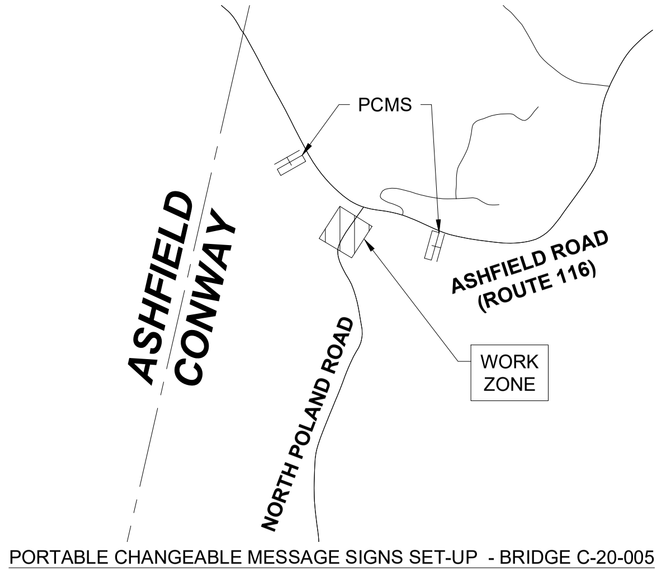


DETOUR ROUTE AND SIGN SCHEMATIC - BRIDGE C-20-005
SCALE: 1"=750'

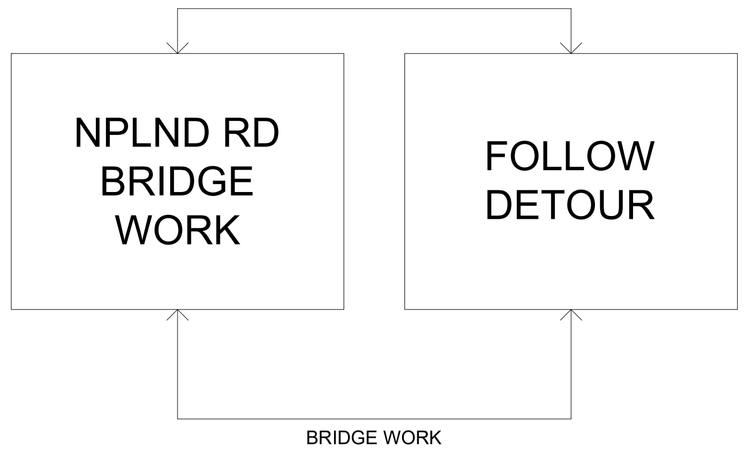
TEMPORARY TRAFFIC CONTROL LEGEND

- WORK ZONE
- SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN
- DETOUR ROUTE

EXAMPLE SIGN SCHEMATIC
DETAIL



PORTABLE CHANGEABLE MESSAGE SIGNS SET-UP - BRIDGE C-20-005
SCALE: 1"=750'



BRIDGE WORK
PORTABLE CHANGEABLE MESSAGE SIGN TEXT

TRAFFIC SIGN SUMMARY - BRIDGE C-20-005 (0F2)

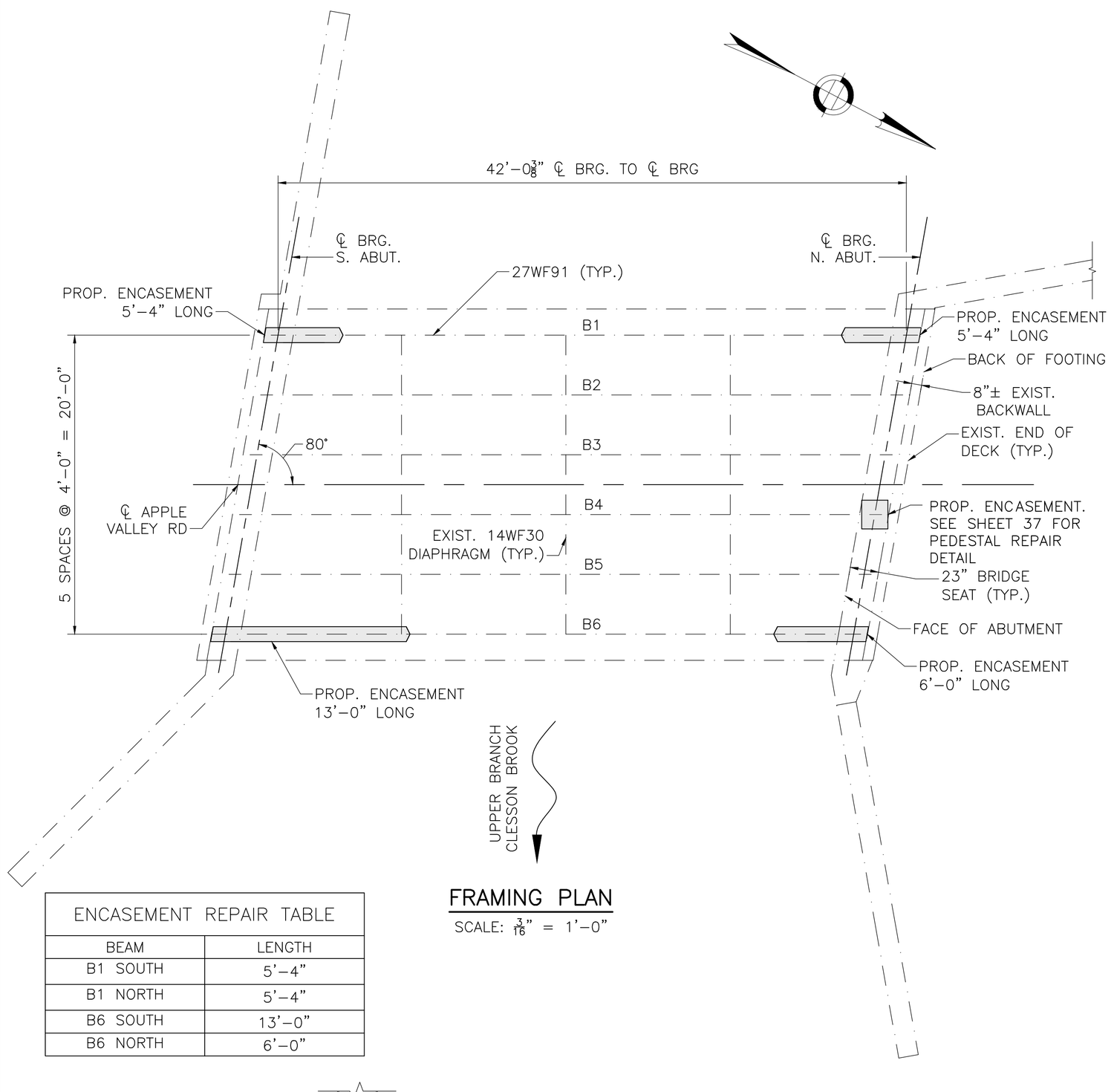
IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES)		LEGEND	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			NUMBER OF SUPPORTS REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACKGROUND	LEGEND	BORDER			
MA-R11-2b	48	30	BRIDGE CLOSED	(1.)			4	WHITE	BLACK	BLACK	0 ON TYPE III BARRICADE	10.00	40.00
R11-3a (1 MILE)	60	30	BRIDGE CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY	(2.)			1	WHITE	BLACK	BLACK	1	12.50	12.50
W16-8P(4)	68	12	North Poland Rd	6D	3.0 3.0	N/A	15	FL. ORANGE	BLACK	BLACK	15	5.67	85.00
W20-2	36	36	DETOUR AHEAD	(2.)			3	FL. ORANGE	BLACK	BLACK	0 3 W/ W16-8P(4)	9.00	27.00
M3-1P	24	12	NORTH				7	WHITE	BLACK	BLACK	0 7 W/ W16-8P(4)	2.00	14.00
M3-3P	24	12	SOUTH				5	WHITE	BLACK	BLACK	0 5 W/ W16-8P(4)	2.00	10.00
M4-8P	24	12	DETOUR				12	FL. ORANGE	BLACK	BLACK	0 12 W/ W16-8P(4)	2.00	24.00
M4-8a	24	18	END DETOUR				2	FL. ORANGE	BLACK	BLACK	2	3.00	6.00
M5-1PL	21	15					2	FL. ORANGE	BLACK	BLACK	0 2 W/ W16-8P(4)	2.19	4.38
M5-1PR	21	15					1	FL. ORANGE	BLACK	BLACK	0 1 W/ W16-8P(4)	2.19	2.19
M6-1PL	21	15					2	FL. ORANGE	BLACK	BLACK	0 2 W/ W16-8P(4)	2.19	4.38
M6-1PR	21	15					1	FL. ORANGE	BLACK	BLACK	0 1 W/ W16-8P(4)	2.19	2.19
M6-3P	21	15					6	FL. ORANGE	BLACK	BLACK	0 6 W/ W16-8P(4)	2.19	13.13

SIGN SUMMARY NOTES:

(1.) MASSDOT STANDARD SIGNS.

(2.) CONTRACTOR TO FURNISH SIGNS CONSISTENT WITH 2023 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (11TH EDITION). SEE MANUAL FOR TEXT AND LEGEND DIMENSIONS.

JULY 18, 2026	PS&E R2 SUBMISSION
USE ONLY PRINTS OF LATEST DATE	



FRAMING PLAN

SCALE: 1/16" = 1'-0"

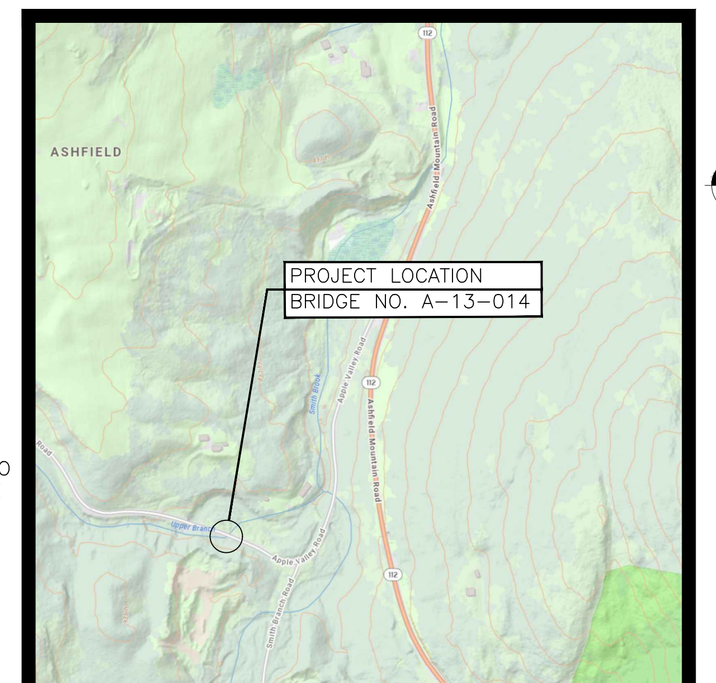
ENCASEMENT REPAIR TABLE	
BEAM	LENGTH
B1 SOUTH	5'-4"
B1 NORTH	5'-4"
B6 SOUTH	13'-0"
B6 NORTH	6'-0"

GENERAL NOTES

1. GENERAL DESIGN IN ACCORDANCE WITH THE 17TH EDITION OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES WITH INTERIM SPECIFICATIONS THROUGH 2002, FOR H20 LOADING.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE RELEVANT PROVISIONS OF THE 2025 MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES WITH THE LATEST UPDATES AND SUPPLEMENTAL SPECIFICATIONS.
3. THESE DRAWINGS WERE FORMATTED FOR 24"x36" PLAN SHEETS. SCALES NOTED ON THE DRAWINGS ARE NOT APPLICABLE TO REDUCED SIZE PRINTS.
4. EXISTING STRUCTURE DIMENSIONS AND DETAILS ARE ACCORDING TO ORIGINAL CONSTRUCTION DRAWINGS, OBSERVATION, AND FIELD MEASUREMENTS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE AND ESTABLISH ALL DIMENSIONS AND EXISTING DETAILS NECESSARY FOR COMPLETION OF ALL WORK BY FIELD MEASUREMENT (I.E. BEARING LOCATIONS, EXISTING REPAIRS, ETC.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY AND ACCURACY THEREOF, AND SHALL NOT ORDER ANY MATERIAL OR COMMENCE ANY FABRICATION UNTIL THEY HAVE MADE THE REQUIRED MEASUREMENTS ON THE ACTUAL STRUCTURE AND THE EXTENT OF THE PROPOSED WORK HAS BEEN APPROVED BY THE ENGINEER.
5. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY NOT TO DAMAGE UTILITIES, EQUIPMENT, STRUCTURES, OR THOSE PORTIONS OF THE SUPERSTRUCTURE THAT ARE TO REMAIN IN PLACE, THAT ARE TO BE REUSED, OR THAT ARE TO REMAIN THE PROPERTY OF OTHERS. ANY PORTION OF THE SUPERSTRUCTURE AND SUBSTRUCTURE TO REMAIN WHICH BECOMES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE.
6. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31 GRADE 60 EPOXY COATED.
7. THREADED RODS SHALL BE ¾"ø AND CONFORM TO ASTM A307 GRADE A. NUTS AND WASHERS SHALL CONFORM TO AASHTO M291 AND M293 RESPECTIVELY. RODS, NUTS, AND WASHERS SHALL BE GALVANIZED.
8. NO REPAIRS SHALL COMMENCE UNTIL ALL MEASUREMENTS HAVE BEEN MADE AND MATERIALS (EXCLUDING CONCRETE) ARE ON HAND FOR THE REPAIR.
9. THE CONTRACTOR SHALL ASSUME ALL EXISTING COATINGS CONTAIN LEAD UNLESS OTHERWISE DETERMINED BY TESTING. ALL DEBRIS CREATED BY OPERATIONS SHALL BE PROPERLY CONTAINED AND DISPOSED OF.

CONSTRUCTION PROCEDURE

1. THE EXISTING CONCRETE BRIDGE SEATS, BACKWALLS, AND STRUCTURAL STEEL SHALL BE CLEANED PRIOR TO PLACEMENT OF THE BEAM END ENCASEMENT. ALL DEBRIS AND DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE BEAM SEAT. THE EXISTING STRUCTURAL STEEL SHALL BE POWER TOOL CLEANED TO REMOVE ALL LOOSE RUST AND PAINT. TIGHTLY ADHERING PAINT DOES NOT NEED TO BE REMOVED.
2. PRIOR TO PLACEMENT OF THE BEAM END ENCASEMENT, EXPANDED POLYSTYRENE SHALL BE ATTACHED WITH ADHESIVE TO ALL SURFACES OF THE BACKWALLS AND BEAM SEATS. THE CONTRACTOR SHALL INSURE THAT ALL THE EXISTING ABUTMENT CONCRETE IS PROPERLY LINED WITH EXPANDED POLYSTYRENE SO THAT THE ENCASEMENT CONCRETE DOES NOT COME IN CONTACT WITH EXISTING ABUTMENT CONCRETE.
3. CEMENT CONCRETE SHALL BE 5000 PSI, ⅜", 710 HP CEMENT CONCRETE WITH A 7" ±1" SLUMP FROM A MASSDOT APPROVED PRODUCER. MIX DESIGN SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO PLACEMENT.
4. CEMENT CONCRETE CONSOLIDATION SHALL BE ACHIEVED USING CONCRETE PENCIL VIBRATORS THAT ARE INSERTED THRU OPENINGS IN THE TOP OF FORMS. A MINIMUM OF TWO CONCRETE PENCIL VIBRATORS SHALL BE ON-SITE DURING CONCRETE PLACEMENT
5. THE CONTRACTOR'S MEANS AND METHODS OF CONTAINING AND DISPOSING DEBRIS AND OBTAINING ACCESS TO THE BEAM ENDS TO BE ENCASED SHALL BE CONSIDERED INCIDENTAL TO THE WORK WITHOUT SEPARATE COMPENSATION. THE CONTRACTOR SHALL INSTALL A SHIELDING AND CONTAINMENT SYSTEM PRIOR TO PERFORMING THE CLEANING OF THE STEEL SURFACES TO BE ENCASED IN ORDER TO COLLECT ALL LOOSE PAINT, DEBRIS, AND PARTICLES.
6. THE CONTRACTOR SHALL SUBMIT THE PROPOSED METHOD OF DELIVERING THE CONCRETE INTO THE FORM WORK, EXCAVATING A 5" HOLE THROUGH THE DECK IS ACCEPTABLE.



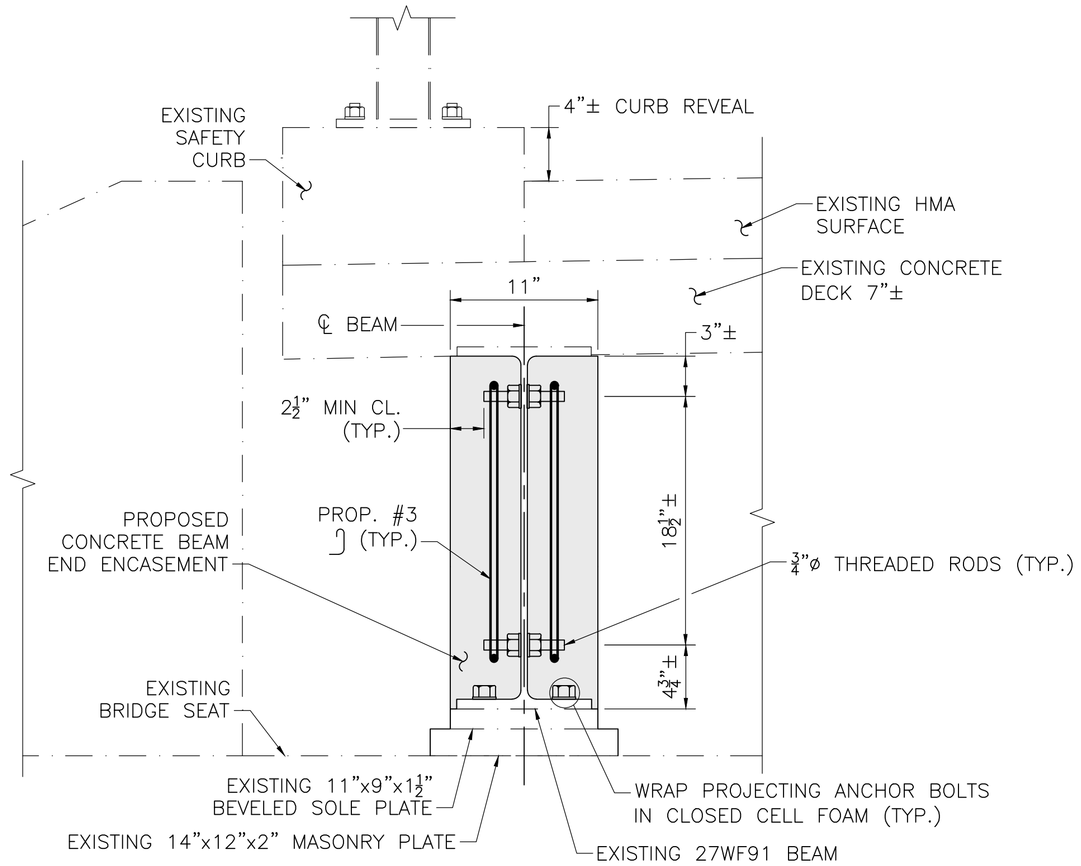
LOCUS

NOT TO SCALE

ESTIMATED QUANTITIES

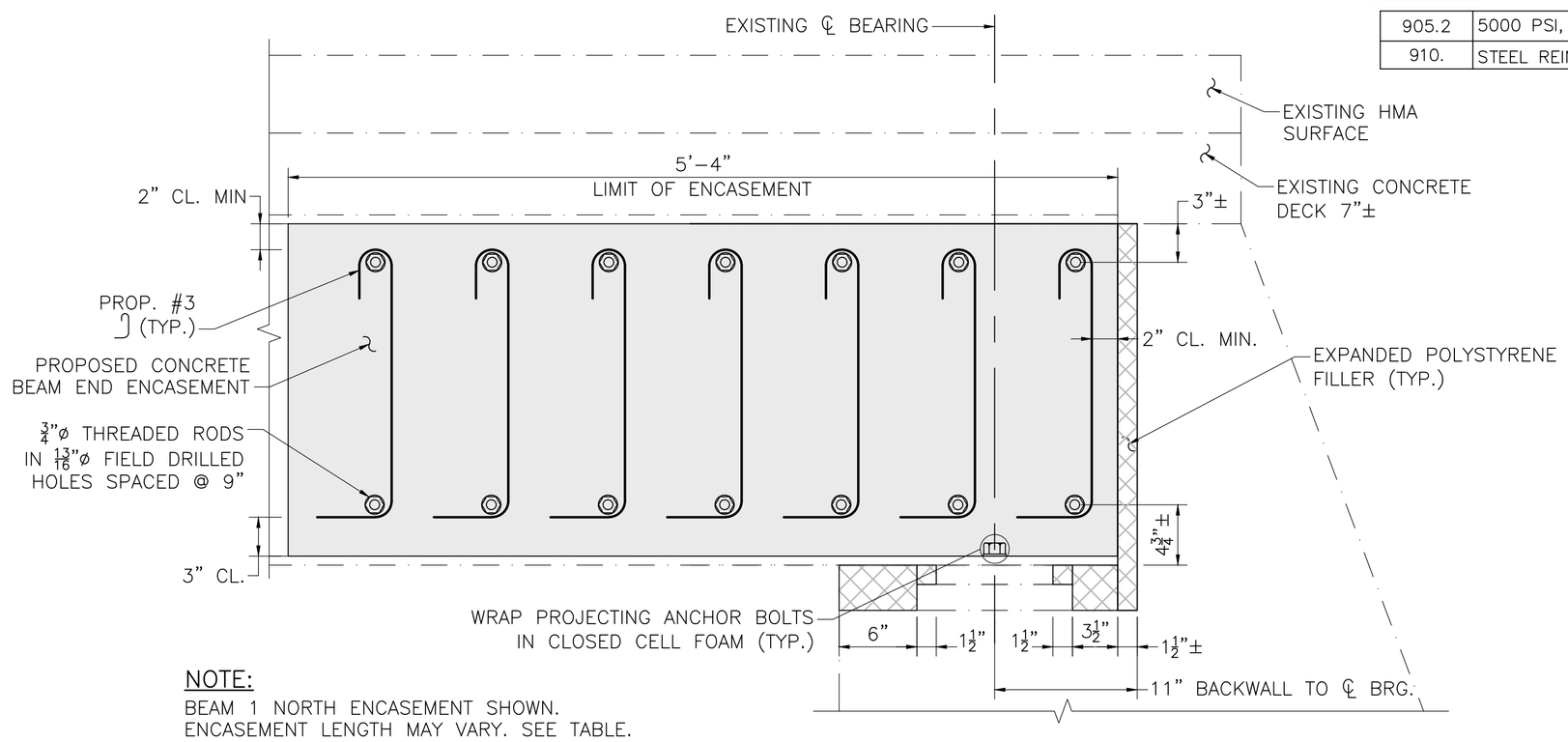
NOT GUARANTEED

ITEM NO.	ITEM	UNIT	QUANTITY
905.2	5000 PSI, 3/8 INCH, 710 HP CEMENT CONCRETE	CY	3
910.	STEEL REINFORCEMENT FOR STRUCTURES	LB	112



FASCIA BEAM TYPICAL SECTION

SCALE: 1½" = 1'-0"



NOTE:
BEAM 1 NORTH ENCASEMENT SHOWN.
ENCASEMENT LENGTH MAY VARY. SEE TABLE.

TYPICAL LONGITUDINAL SECTION AT BEAM 1

SCALE: 1½" = 1'-0"

1234 CHESTNUT STREET
SUITE 207
NEWTON, MA 02464
781-355-7100
781-355-7101 (FAX)

GILL ENGINEERING

DATE	DRW. BY	CALC. BY	APPRV. BY	DESCRIPTION
12/17/25	ELM	ELM	DSC	ISSUED FOR CHAPTER 85 REVIEW

REGISTERED PROFESSIONAL ENGINEER — DATE

BEAM END ENCASEMENT REPAIRS

TOWN OF ASHFIELD

BRIDGE REPAIRS FOR ASHFIELD A-13-014 (0FN)
APPLE VALLEY ROAD OVER UPPER BRANCH CLESSON BROOK

GENERAL NOTES AND REPAIR DETAILS

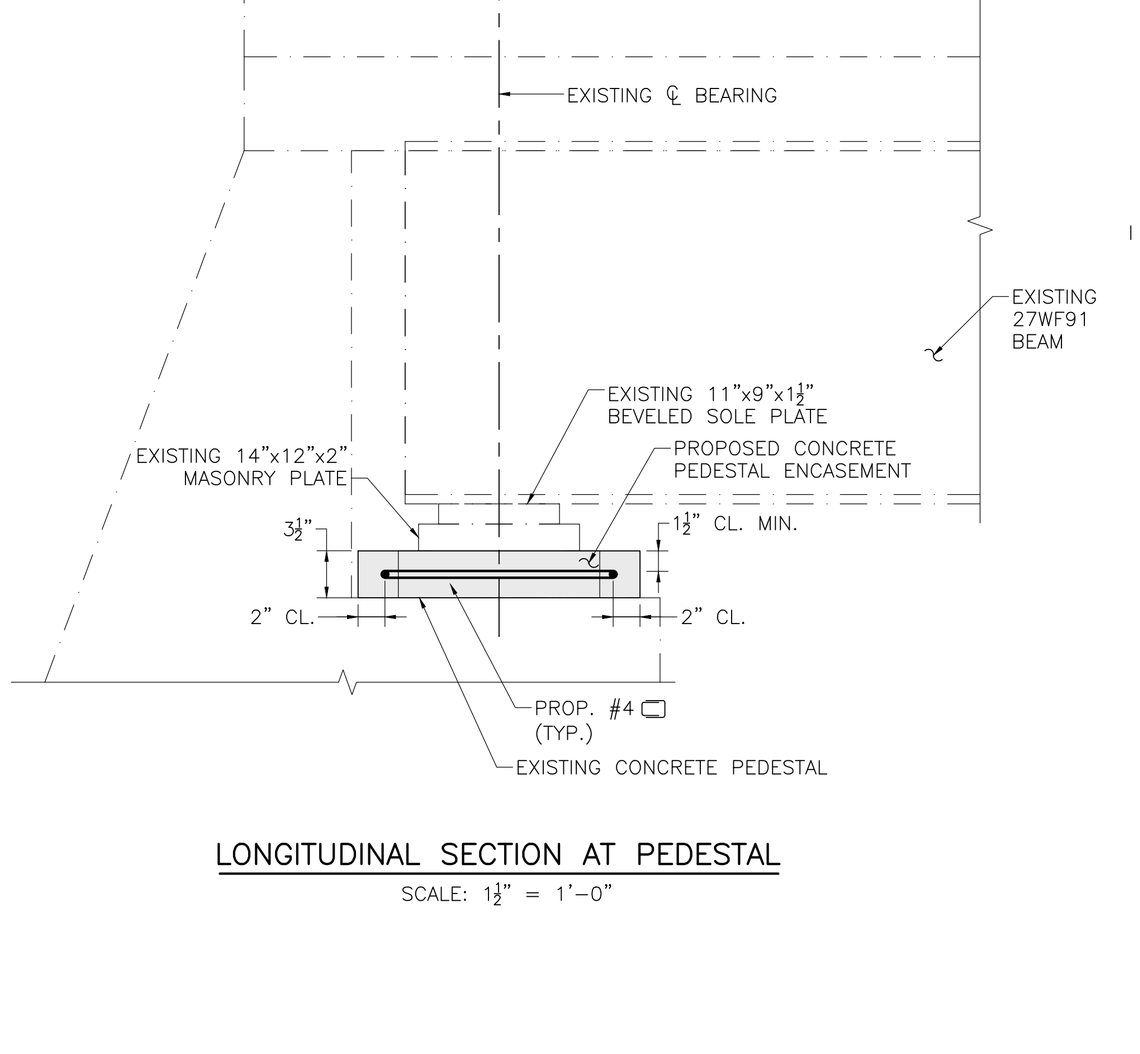
SHEET 1 OF 1

Plotted on 17-Dec-2025 10:18 AM

A13014 Encasement (Pumped Concrete).dwg

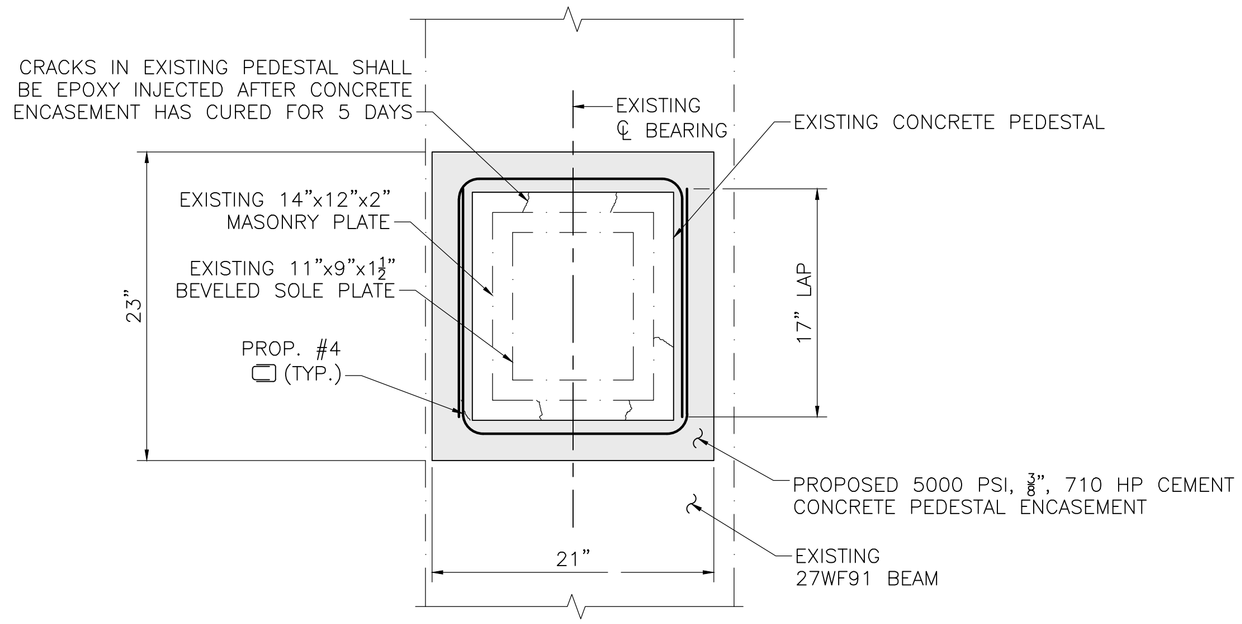
Proposal No. 616282-135581

A00803 - 32



LONGITUDINAL SECTION AT PEDESTAL

SCALE: 1½" = 1'-0"



ENCASEMENT REPAIR BEAM 4 NORTH ABUTMENT

SCALE: 1½" = 1'-0"

GILL ENGINEERING
1234 CHESTNUT STREET
SUITE 207
NEWTON, MA 02464
781-355-7100
781-355-7101 (FAX)

Plotted on 17-Dec-2025 10:23 AM

A13014 Encasement (Pumped Concrete).dwg

DATE	DRW. BY	CALC. BY	APPRV. BY	DESCRIPTION
12/17/25	ELM	ELM	DSC	ISSUED FOR CHAPTER 85 REVIEW

REGISTERED PROFESSIONAL ENGINEER — DATE

BEAM END ENCASEMENT REPAIRS

TOWN OF ASHFIELD

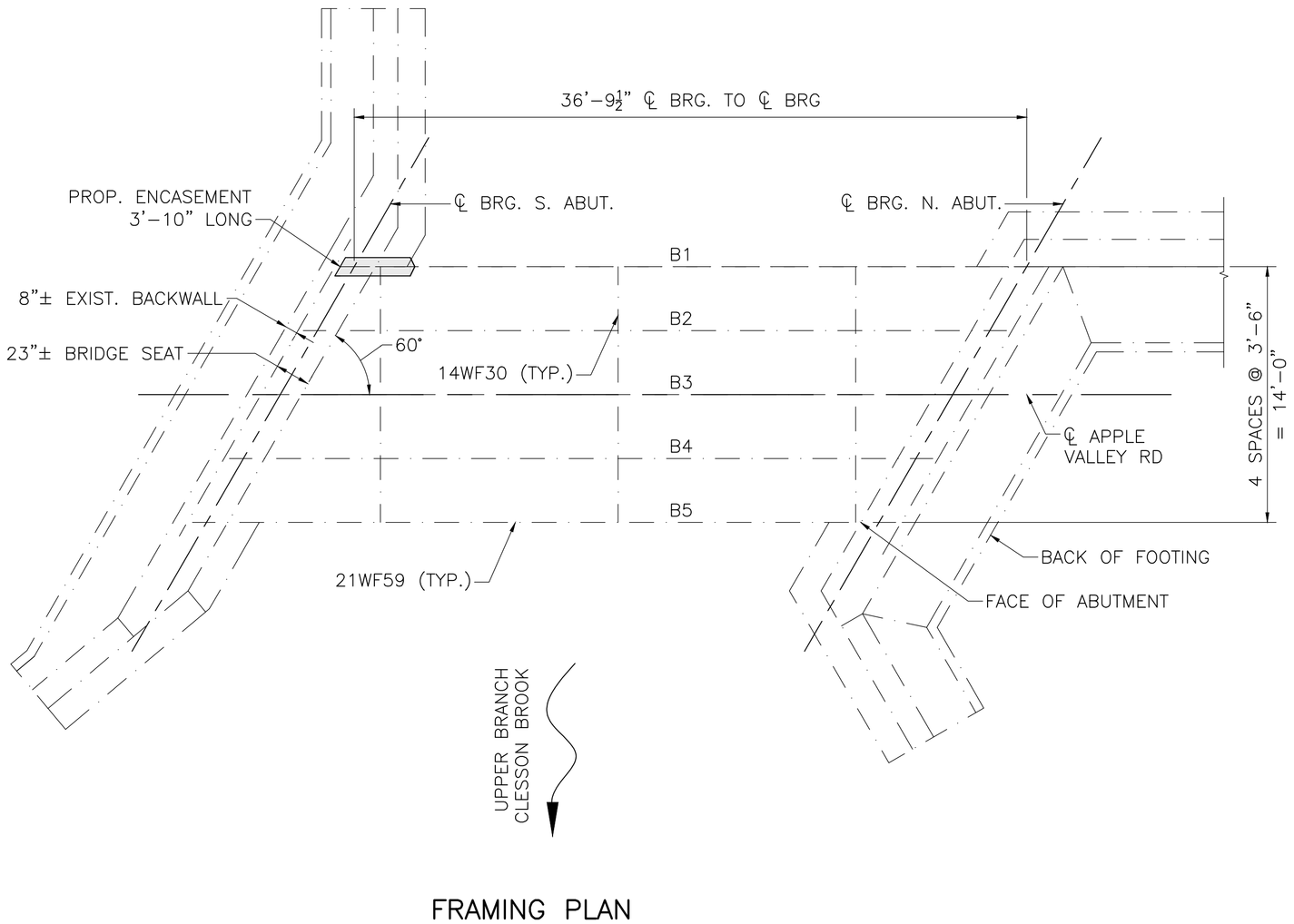
BRIDGE REPAIRS FOR ASHFIELD A-13-014 (0FN)
APPLE VALLEY ROAD OVER UPPER BRANCH CLESSON BROOK

GENERAL NOTES AND REPAIR DETAILS

SHEET 1 OF 1

Proposal No. 616282-135581

A00803 - 33



FRAMING PLAN

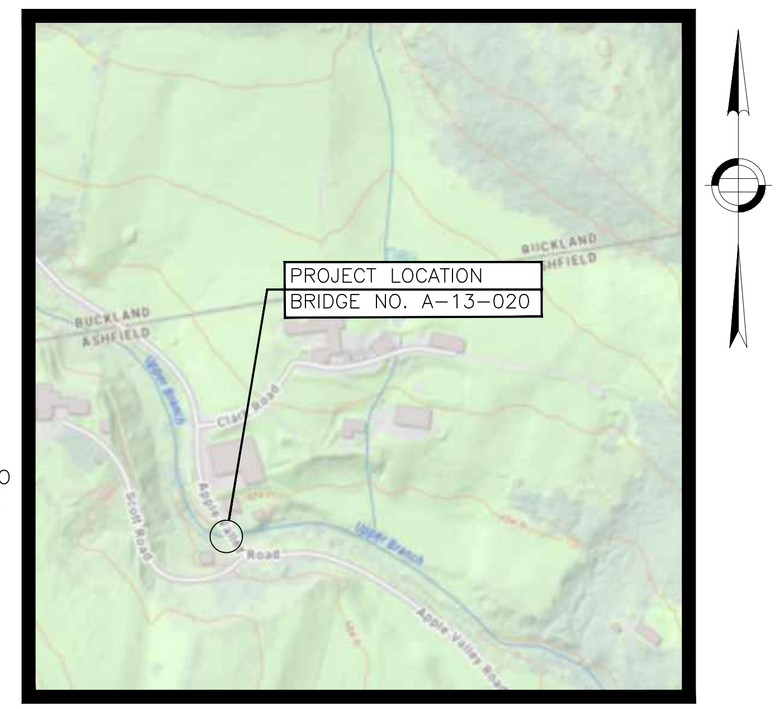
SCALE: 1/16" = 1'-0"

GENERAL NOTES

1. GENERAL DESIGN IN ACCORDANCE WITH THE 17TH EDITION OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES WITH INTERIM SPECIFICATIONS THROUGH 2002, FOR H20 LOADING.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE RELEVANT PROVISIONS OF THE 2025 MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES WITH THE LATEST UPDATES AND SUPPLEMENTAL SPECIFICATIONS.
3. THESE DRAWINGS WERE FORMATTED FOR 24"x36" PLAN SHEETS. SCALES NOTED ON THE DRAWINGS ARE NOT APPLICABLE TO REDUCED SIZE PRINTS.
4. EXISTING STRUCTURE DIMENSIONS AND DETAILS ARE ACCORDING TO ORIGINAL CONSTRUCTION DRAWINGS, OBSERVATION, AND FIELD MEASUREMENTS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE AND ESTABLISH ALL DIMENSIONS AND EXISTING DETAILS NECESSARY FOR COMPLETION OF ALL WORK BY FIELD MEASUREMENT (I.E. BEARING LOCATIONS, EXISTING REPAIRS, ETC.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY AND ACCURACY THEREOF, AND SHALL NOT ORDER ANY MATERIAL OR COMMENCE ANY FABRICATION UNTIL THEY HAVE MADE THE REQUIRED MEASUREMENTS ON THE ACTUAL STRUCTURE AND THE EXTENT OF THE PROPOSED WORK HAS BEEN APPROVED BY THE ENGINEER.
5. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY NOT TO DAMAGE UTILITIES, EQUIPMENT, STRUCTURES, OR THOSE PORTIONS OF THE SUPERSTRUCTURE THAT ARE TO REMAIN IN PLACE, THAT ARE TO BE REUSED, OR THAT ARE TO REMAIN THE PROPERTY OF OTHERS. ANY PORTION OF THE SUPERSTRUCTURE AND SUBSTRUCTURE TO REMAIN WHICH BECOMES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE.
6. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31 GRADE 60 EPOXY COATED.
7. THREADED RODS SHALL BE ¾"ø AND CONFORM TO ASTM A307 GRADE A. NUTS AND WASHERS SHALL CONFORM TO AASHTO M291 AND M293 RESPECTIVELY. RODS, NUTS, AND WASHERS SHALL BE GALVANIZED.
8. NO REPAIRS SHALL COMMENCE UNTIL ALL MEASUREMENTS HAVE BEEN MADE AND MATERIALS (EXCLUDING CONCRETE) ARE ON HAND FOR THE REPAIR.
9. THE CONTRACTOR SHALL ASSUME ALL EXISTING COATINGS CONTAIN LEAD UNLESS OTHERWISE DETERMINED BY TESTING. ALL DEBRIS CREATED BY OPERATIONS SHALL BE PROPERLY CONTAINED AND DISPOSED OF.

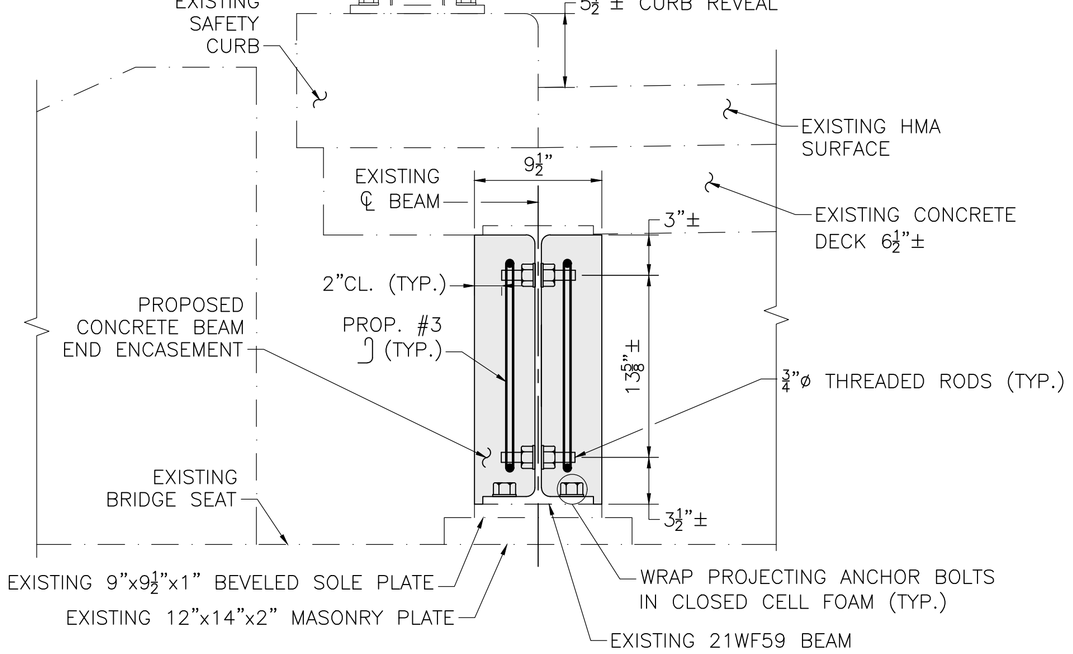
CONSTRUCTION PROCEDURE

1. THE EXISTING CONCRETE BRIDGE SEATS, BACKWALLS, AND STRUCTURAL STEEL SHALL BE CLEANED PRIOR TO PLACEMENT OF THE BEAM END ENCASEMENT. ALL DEBRIS AND DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE BEAM SEAT. THE EXISTING STRUCTURAL STEEL SHALL BE POWER TOOL CLEANED TO REMOVE ALL LOOSE RUST AND PAINT. TIGHTLY ADHERING PAINT DOES NOT NEED TO BE REMOVED.
2. PRIOR TO PLACEMENT OF THE BEAM END ENCASEMENT, EXPANDED POLYSTYRENE SHALL BE ATTACHED WITH ADHESIVE TO ALL SURFACES OF THE BACKWALLS AND BEAM SEATS. THE CONTRACTOR SHALL INSURE THAT ALL THE EXISTING ABUTMENT CONCRETE IS PROPERLY LINED WITH EXPANDED POLYSTYRENE SO THAT THE ENCASEMENT CONCRETE DOES NOT COME IN CONTACT WITH EXISTING ABUTMENT CONCRETE.
3. CEMENT CONCRETE SHALL BE 5000 PSI, ⅜", 710 HP CEMENT CONCRETE WITH A 7" ±1" SLUMP FROM A MASSDOT APPROVED PRODUCER. MIX DESIGN SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO PLACEMENT.
4. CEMENT CONCRETE CONSOLIDATION SHALL BE ACHIEVED USING CONCRETE PENCIL VIBRATORS THAT ARE INSERTED THRU OPENINGS IN THE TOP OF FORMS. A MINIMUM OF TWO CONCRETE PENCIL VIBRATORS SHALL BE ON-SITE DURING CONCRETE PLACEMENT
5. THE CONTRACTOR'S MEANS AND METHODS OF CONTAINING AND DISPOSING DEBRIS AND OBTAINING ACCESS TO THE BEAM ENDS TO BE ENCASED SHALL BE CONSIDERED INCIDENTAL TO THE WORK WITHOUT SEPARATE COMPENSATION. THE CONTRACTOR SHALL INSTALL A SHIELDING AND CONTAINMENT SYSTEM PRIOR TO PERFORMING THE CLEANING OF THE STEEL SURFACES TO BE ENCASED IN ORDER TO COLLECT ALL LOOSE PAINT, DEBRIS, AND PARTICLES.
6. THE CONTRACTOR SHALL SUBMIT THE PROPOSED METHOD OF DELIVERING THE CONCRETE INTO THE FORM WORK, EXCAVATING A 5" HOLE THROUGH THE DECK IS ACCEPTABLE.



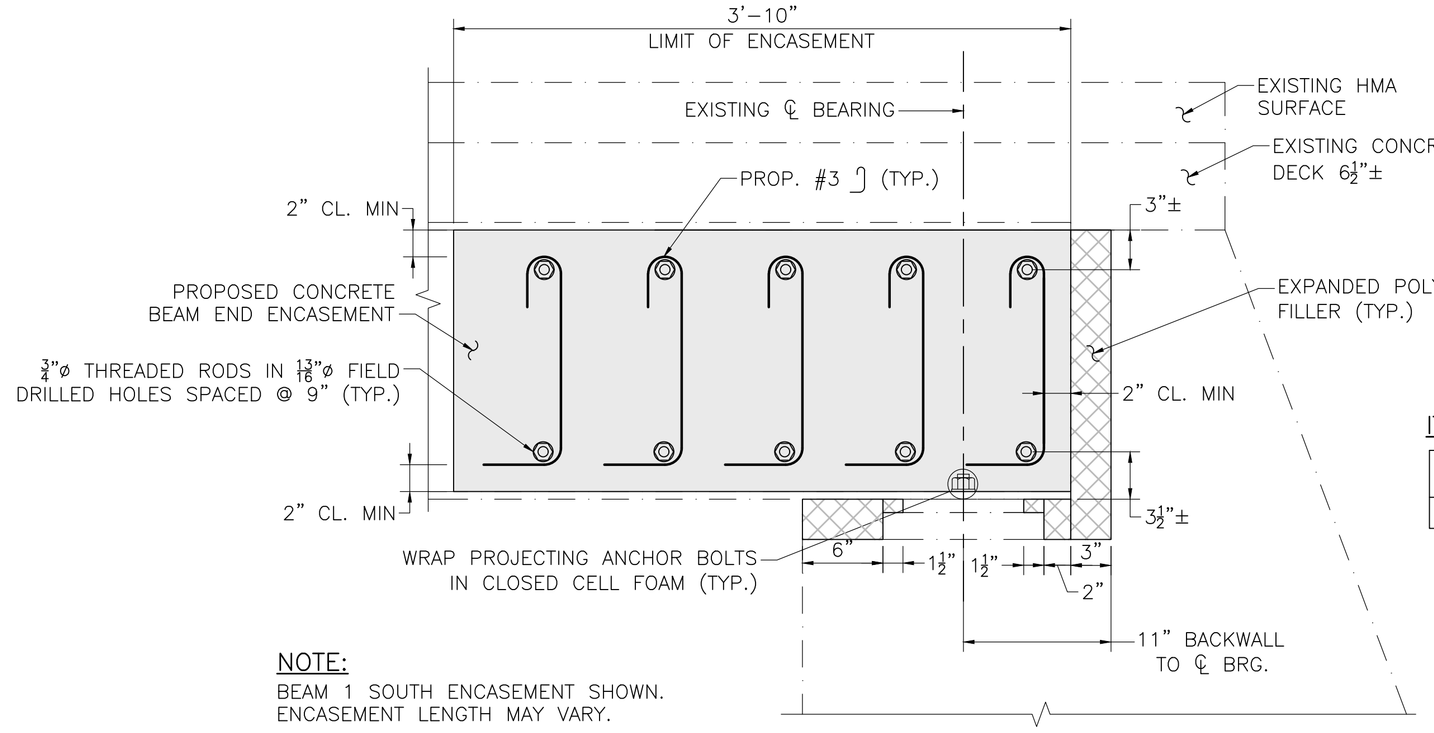
LOCUS

NOT TO SCALE



FASCIA BEAM TYPICAL SECTION

SCALE: 1½" = 1'-0"



NOTE:
BEAM 1 SOUTH ENCASEMENT SHOWN.
ENCASEMENT LENGTH MAY VARY.

TYPICAL LONGITUDINAL SECTION AT BEAM 1

SCALE: 1½" = 1'-0"

ESTIMATED QUANTITIES

NOT GUARANTEED

ITEM NO.	ITEM	UNIT	QUANTITY
905.2	5000 PSI, 3/8 INCH, 710 HP CEMENT CONCRETE	CY	1
910.	STEEL REINFORCEMENT FOR STRUCTURES	LB	16

GILL ENGINEERING
1234 CHESTNUT STREET
SUITE 207
NEWTON, MA 02464
781-355-7100
781-355-7101 (FAX)

Plotted on 15-Dec-2025 2:57 PM

A13020 Encasement (Pumped Concrete).dwg

DATE	DRW. BY	CALC. BY	APPRV. BY	DESCRIPTION
12/15/25	ELM	ELM	DSC	ISSUED FOR CHAPTER 85 REVIEW

REGISTERED PROFESSIONAL ENGINEER — DATE

BEAM END ENCASEMENT REPAIRS

TOWN OF ASHFIELD

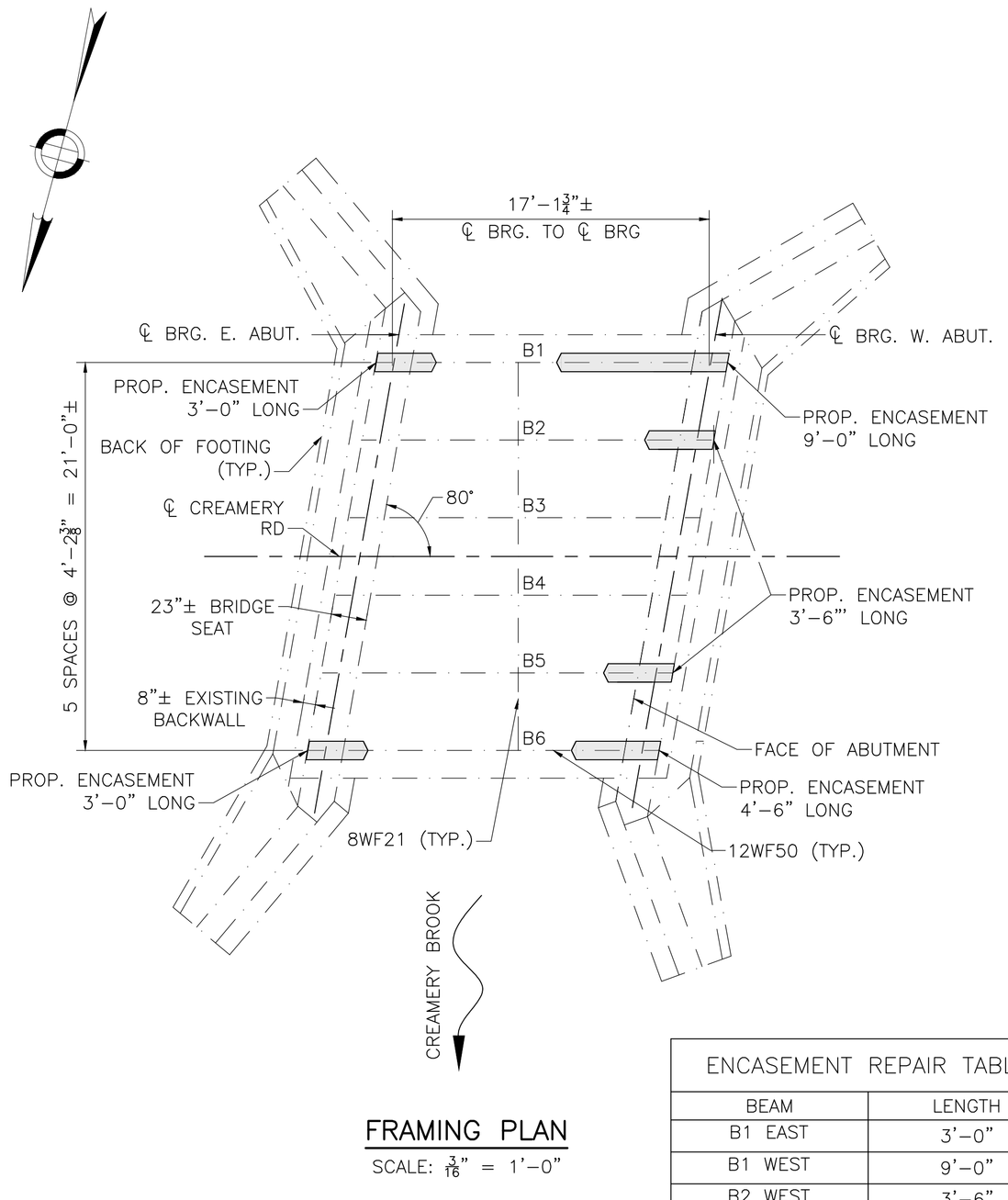
BRIDGE REPAIRS FOR ASHFIELD A-13-020 (0FM)
APPLE VALLEY ROAD OVER UPPER BRANCH CLESSON BROOK

GENERAL NOTES AND REPAIR DETAILS

SHEET 1 OF 1

Proposal No. 616282-135581

A00803 - 34



FRAMING PLAN

SCALE: $\frac{3}{16}$" = 1'–0"

ENCASEMENT REPAIR TABLE	
BEAM	LENGTH
B1 EAST	3'–0"
B1 WEST	9'–0"
B2 WEST	3'–6"
B5 WEST	3'–6"
B6 EAST	3'–0"
B6 WEST	4'–6"

GENERAL NOTES

1. GENERAL DESIGN IN ACCORDANCE WITH THE 17TH EDITION OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES WITH INTERIM SPECIFICATIONS THROUGH 2002, FOR H20 LOADING.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE RELEVANT PROVISIONS OF THE 2025 MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES WITH THE LATEST UPDATES AND SUPPLEMENTAL SPECIFICATIONS.
3. THESE DRAWINGS WERE FORMATTED FOR 24"x36" PLAN SHEETS. SCALES NOTED ON THE DRAWINGS ARE NOT APPLICABLE TO REDUCED SIZE PRINTS.
4. EXISTING STRUCTURE DIMENSIONS AND DETAILS ARE ACCORDING TO ORIGINAL CONSTRUCTION DRAWINGS, OBSERVATION, AND FIELD MEASUREMENTS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE AND ESTABLISH ALL DIMENSIONS AND EXISTING DETAILS NECESSARY FOR COMPLETION OF ALL WORK BY FIELD MEASUREMENT (I.E. BEARING LOCATIONS, EXISTING REPAIRS, ETC.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY AND ACCURACY THEREOF, AND SHALL NOT ORDER ANY MATERIAL OR COMMENCE ANY FABRICATION UNTIL THEY HAVE MADE THE REQUIRED MEASUREMENTS ON THE ACTUAL STRUCTURE AND THE EXTENT OF THE PROPOSED WORK HAS BEEN APPROVED BY THE ENGINEER.
5. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY NOT TO DAMAGE UTILITIES, EQUIPMENT, STRUCTURES, OR THOSE PORTIONS OF THE SUPERSTRUCTURE THAT ARE TO REMAIN IN PLACE, THAT ARE TO BE REUSED, OR THAT ARE TO REMAIN THE PROPERTY OF OTHERS. ANY PORTION OF THE SUPERSTRUCTURE AND SUBSTRUCTURE TO REMAIN WHICH BECOMES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE.
6. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31 GRADE 60 EPOXY COATED.
7. THREADED RODS SHALL BE $\frac{3}{4}$"ø AND CONFORM TO ASTM A307 GRADE A. NUTS AND WASHERS SHALL CONFORM TO AASHTO M291 AND M293 RESPECTIVELY. RODS, NUTS, AND WASHERS SHALL BE GALVANIZED.
8. NO REPAIRS SHALL COMMENCE UNTIL ALL MEASUREMENTS HAVE BEEN MADE AND MATERIALS (EXCLUDING CONCRETE) ARE ON HAND FOR THE REPAIR.
9. THE CONTRACTOR SHALL ASSUME ALL EXISTING COATINGS CONTAIN LEAD UNLESS OTHERWISE DETERMINED BY TESTING. ALL DEBRIS CREATED BY OPERATIONS SHALL BE PROPERLY CONTAINED AND DISPOSED OF.

CONSTRUCTION PROCEDURE

1. THE EXISTING CONCRETE BRIDGE SEATS, BACKWALLS, AND STRUCTURAL STEEL SHALL BE CLEANED PRIOR TO PLACEMENT OF THE BEAM END ENCASEMENT. ALL DEBRIS AND DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE BEAM SEAT. THE EXISTING STRUCTURAL STEEL SHALL BE POWER TOOL CLEANED TO REMOVE ALL LOOSE RUST AND PAINT. TIGHTLY ADHERING PAINT DOES NOT NEED TO BE REMOVED.
2. PRIOR TO PLACEMENT OF THE BEAM END ENCASEMENT, EXPANDED POLYSTYRENE SHALL BE ATTACHED WITH ADHESIVE TO ALL SURFACES OF THE BACKWALLS AND BEAM SEATS. THE CONTRACTOR SHALL INSURE THAT ALL THE EXISTING ABUTMENT CONCRETE IS PROPERLY LINED WITH EXPANDED POLYSTYRENE SO THAT THE ENCASEMENT CONCRETE DOES NOT COME IN CONTACT WITH EXISTING ABUTMENT CONCRETE.
3. CEMENT CONCRETE SHALL BE 5000 PSI, $\frac{3}{8}$", 710 HP CEMENT CONCRETE WITH A 7" ±1" SLUMP FROM A MASSDOT APPROVED PRODUCER. MIX DESIGN SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO PLACEMENT.
4. CEMENT CONCRETE CONSOLIDATION SHALL BE ACHIEVED USING CONCRETE PENCIL VIBRATORS THAT ARE INSERTED THRU OPENINGS IN THE TOP OF FORMS. A MINIMUM OF TWO CONCRETE PENCIL VIBRATORS SHALL BE ON–SITE DURING CONCRETE PLACEMENT
5. THE CONTRACTOR'S MEANS AND METHODS OF CONTAINING AND DISPOSING DEBRIS AND OBTAINING ACCESS TO THE BEAM ENDS TO BE ENCASED SHALL BE CONSIDERED INCIDENTAL TO THE WORK WITHOUT SEPARATE COMPENSATION. THE CONTRACTOR SHALL INSTALL A SHIELDING AND CONTAINMENT SYSTEM PRIOR TO PERFORMING THE CLEANING OF THE STEEL SURFACES TO BE ENCASED IN ORDER TO COLLECT ALL LOOSE PAINT, DEBRIS, AND PARTICLES.
6. THE CONTRACTOR SHALL SUBMIT THE PROPOSED METHOD OF DELIVERING THE CONCRETE INTO THE FORM WORK, EXCAVATING A 5" DIAMETER HOLE THROUGH THE DECK IS ACCEPTABLE.

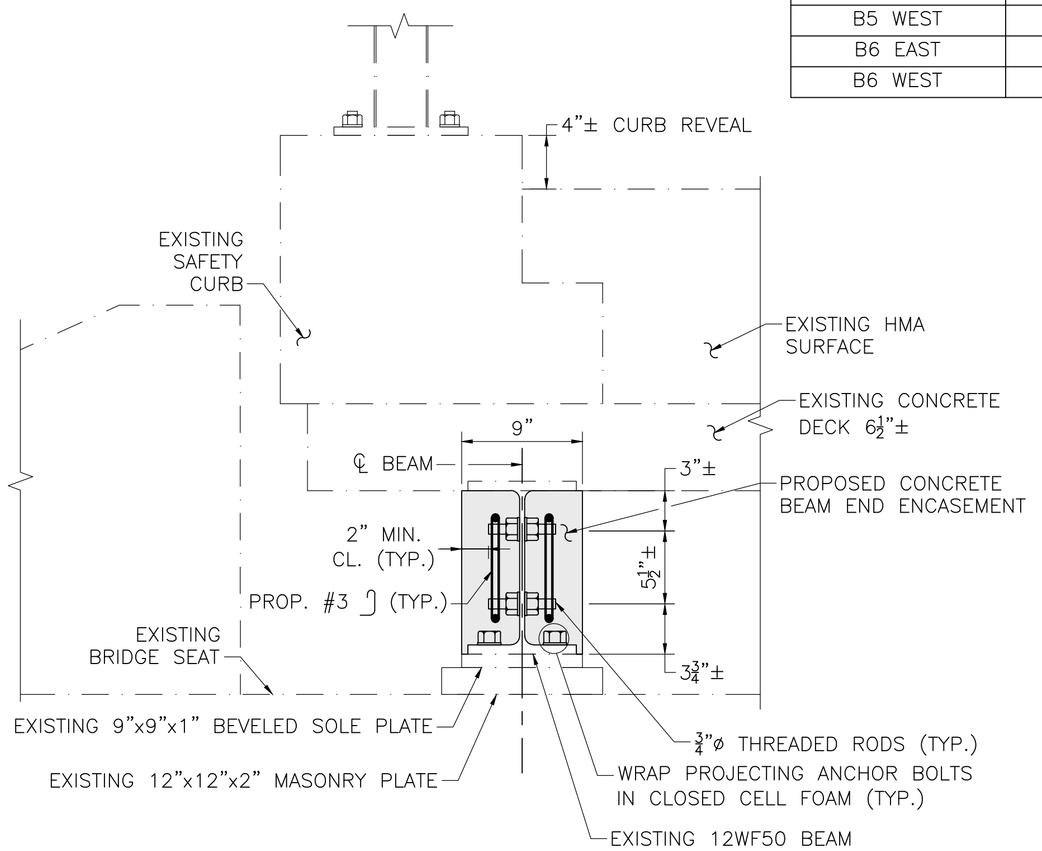
LOCUS

NOT TO SCALE

ESTIMATED QUANTITIES

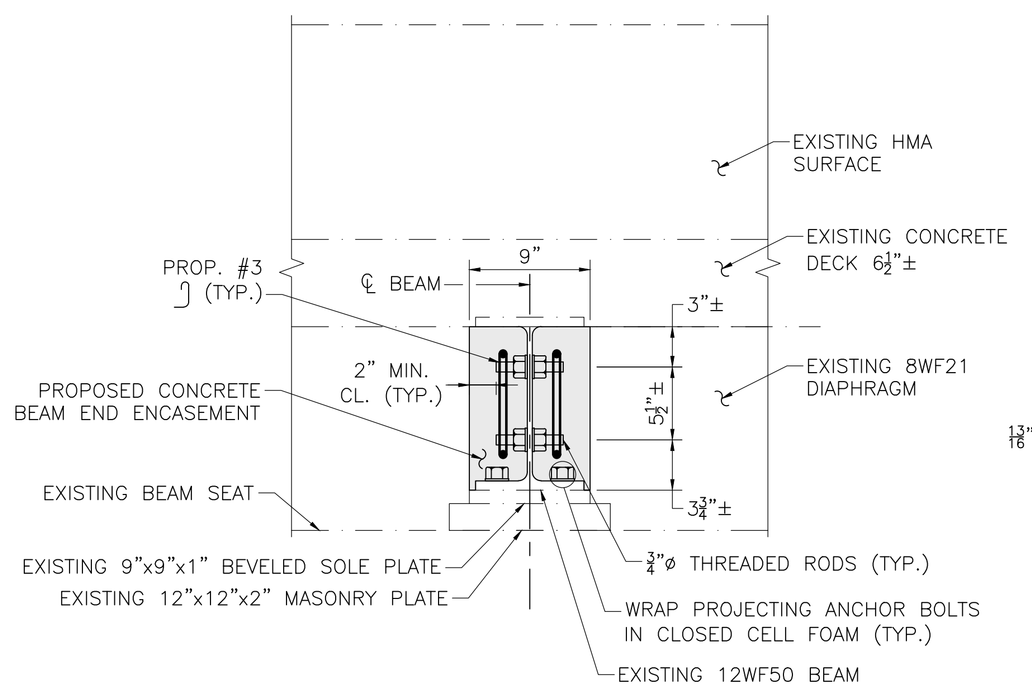
NOT GUARANTEED

ITEM NO.	ITEM	UNIT	QUANTITY
905.2	5000 PSI, 3/8 INCH, 710 HP CEMENT CONCRETE	CY	1
910.	STEEL REINFORCEMENT FOR STRUCTURES	LB	81



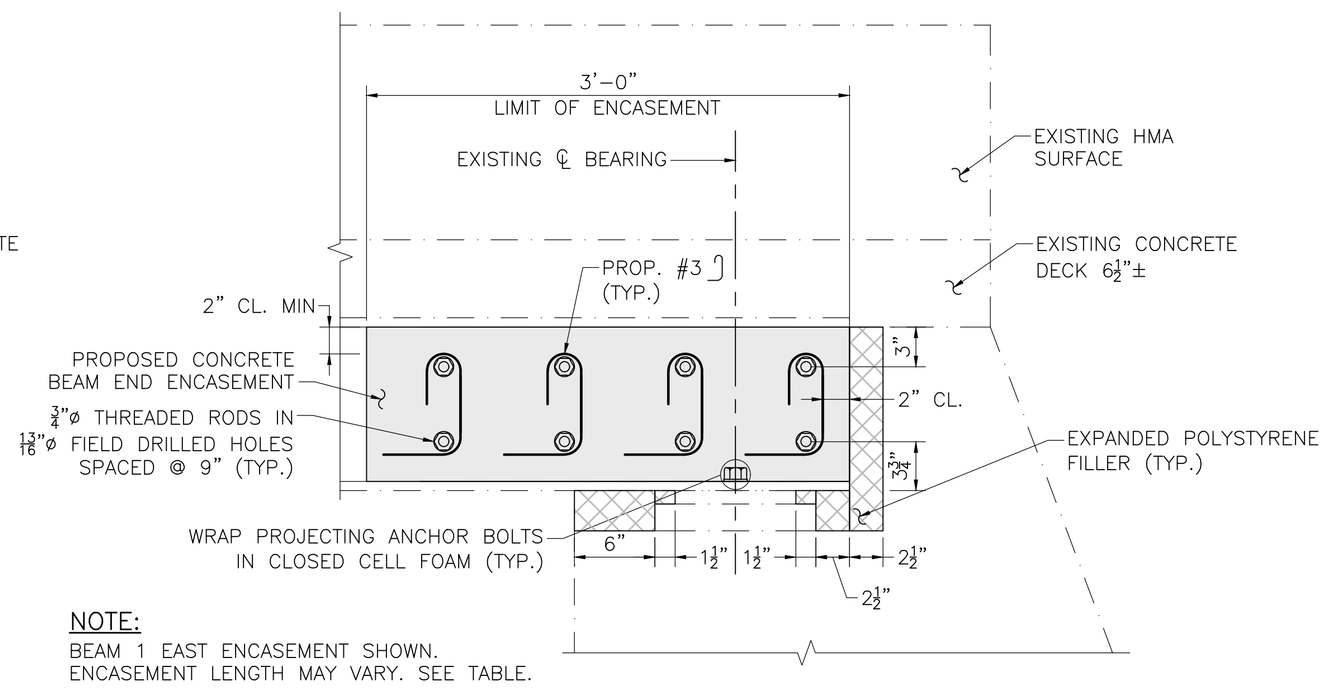
FASCIA BEAM TYPICAL SECTION

SCALE: 1½" = 1'–0"



INTERIOR BEAM TYPICAL SECTION

SCALE: 1½" = 1'–0"



NOTE:

BEAM 1 EAST ENCASEMENT SHOWN. ENCASEMENT LENGTH MAY VARY. SEE TABLE.

TYPICAL LONGITUDINAL SECTION AT BEAM 1

SCALE: 1½" = 1'–0"

GILL ENGINEERING
1234 CHESTNUT STREET
SUITE 207
NEWTON, MA 02464
781-355-7100
781-355-7101 (FAX)

Plotted on 15-Dec-2025 2:56 PM

A13026 Encasement (Pumped Concrete).dwg

DATE	DRW. BY	CALC. BY	APPRV. BY	DESCRIPTION	DATE
12/15/25	ELM	ELM	DSC	ISSUED FOR CHAPTER 85 REVIEW	

REGISTERED PROFESSIONAL ENGINEER

BEAM END ENCASEMENT REPAIRS

TOWN OF ASHFIELD

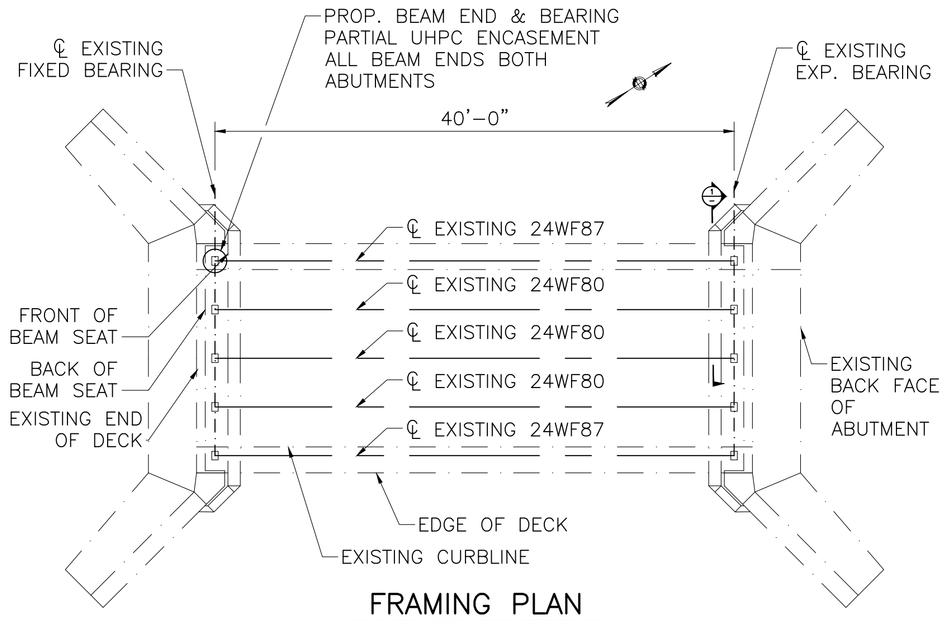
BRIDGE REPAIRS FOR ASHFIELD A–13–026 (5CT)
CREAMERY RD OVER CREAMERY BROOK

GENERAL NOTES AND REPAIR DETAILS

SHEET 1 OF 1

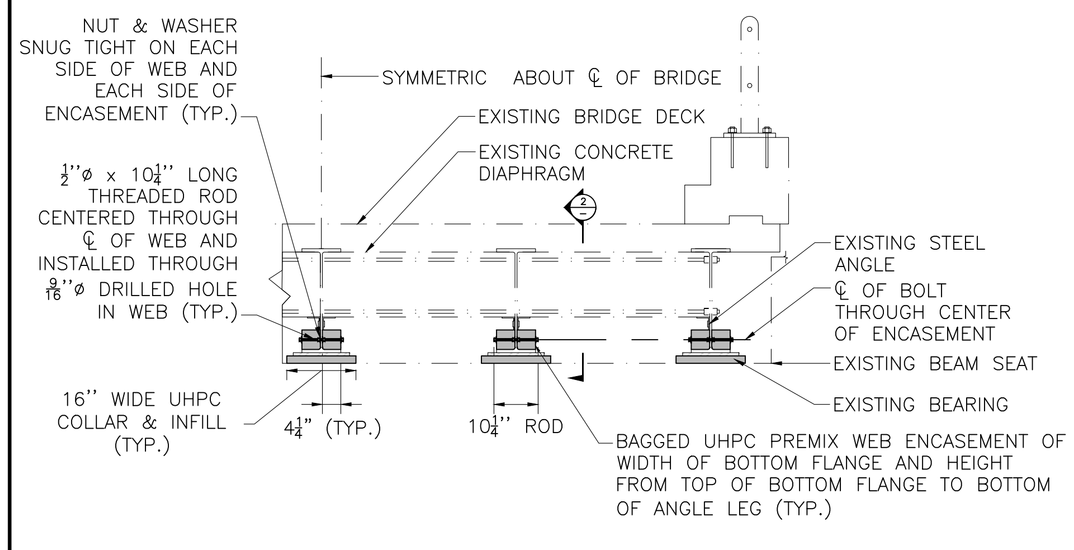
Proposal No. 616282-135581

A00803 - 35



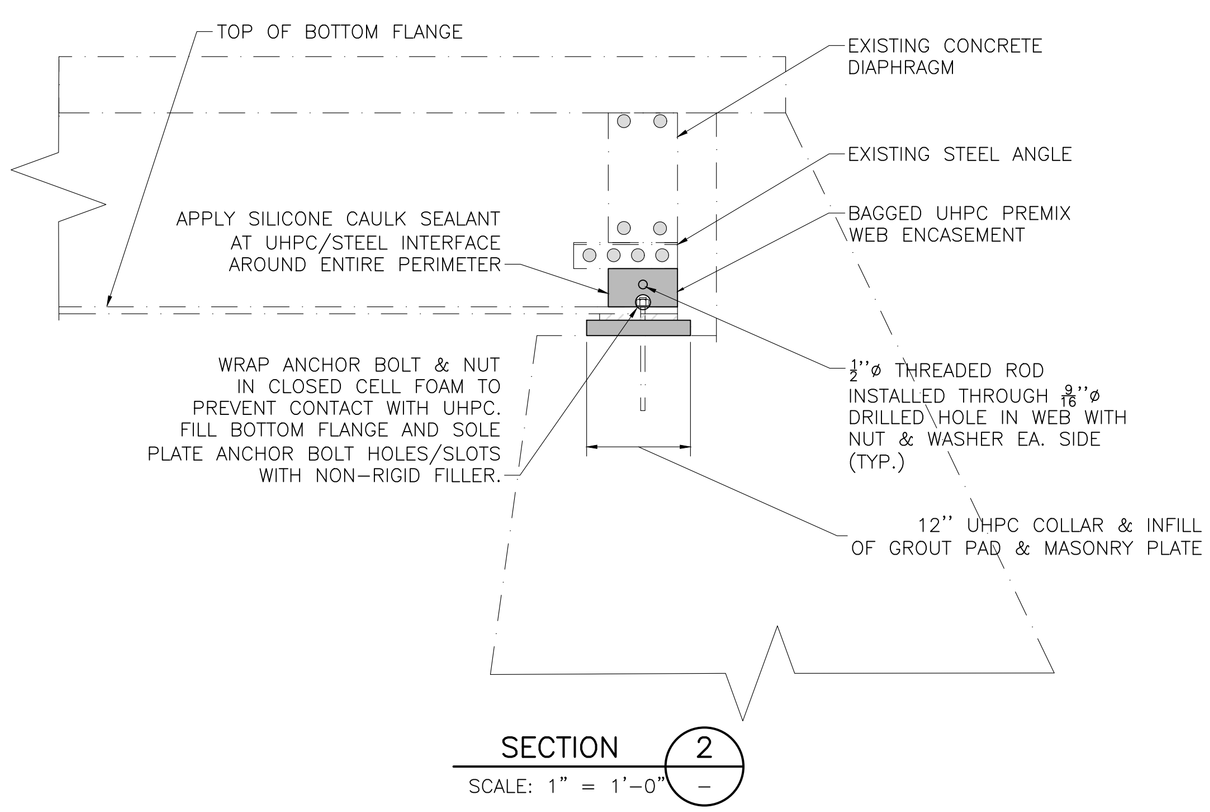
FRAMING PLAN

SCALE: $\frac{1}{8}$" = 1'–0"



SECTION 1

SCALE: $\frac{1}{2}$" = 1'–0"

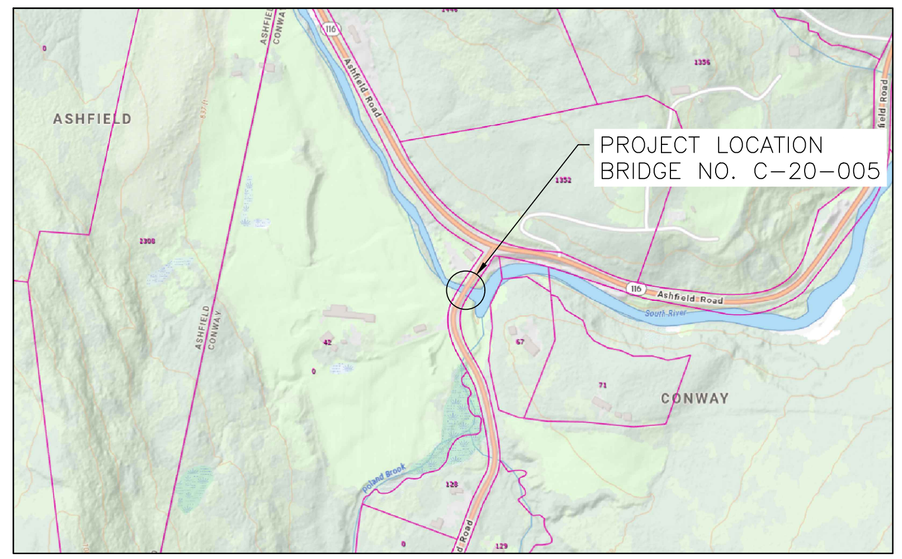


SECTION 2

SCALE: 1" = 1'–0"

GENERAL NOTES

1. ORIGINAL DESIGN LIVE LOAD WAS H–15 ACCORDING TO 1938 PLANS
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE RELEVANT PROVISIONS OF THE MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES WITH THE LATEST SUPPLEMENTAL SPECIFICATIONS
3. THESE DRAWINGS WERE FORMATTED FOR 24"x36" PLAN SHEETS. SCALES NOTED ON THE DRAWINGS ARE NOT APPLICABLE TO REDUCED SIZE PRINTS.
4. EXISTING STRUCTURE DIMENSIONS AND DETAILS ARE ACCORDING TO ORIGINAL CONSTRUCTION DRAWINGS, OBSERVATION, AND FIELD MEASUREMENTS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE AND ESTABLISH ALL DIMENSIONS AND EXISTING DETAILS NECESSARY FOR COMPLETION OF ALL WORK BY FIELD MEASUREMENT (I.E. BEARING LOCATIONS, EXISTING REPAIRS, ETC.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY AND ACCURACY THEREOF, AND SHALL NOT ORDER ANY MATERIAL OR COMMENCE ANY FABRICATION UNTIL THEY HAVE MADE THE REQUIRED MEASUREMENTS ON THE ACTUAL STRUCTURE AND THE EXTENT OF THE PROPOSED WORK HAS BEEN APPROVED BY THE ENGINEER.
5. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY NOT TO DAMAGE UTILITIES, EQUIPMENT, STRUCTURES, OR THOSE PORTIONS OF THE SUPERSTRUCTURE THAT ARE TO REMAIN IN PLACE, THAT ARE TO BE REUSED, OR THAT ARE TO REMAIN THE PROPERTY OF OTHERS. ANY PORTION OF THE SUPERSTRUCTURE AND SUBSTRUCTURE TO REMAIN WHICH BECOMES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE.
6. RODS SHALL BE FULLY THREADED ½"ø IN ⅞"ø HOLES AND SHALL CONFORM TO ASTM F1554 GRADE 55 GALVANIZED. NUTS AND WASHERS SHALL CONFORM TO ASTM 563 AND ASTM F436 RESPECTIVELY. ANCHOR HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION M8.04.3 OF THE 2023 MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES. SOLVENT CLEAN THE PORTIONS OF THE THREADED RODS TO BE EMBEDDED IN UHPC PRIOR TO UHPC PLACEMENT. ADJUST ROD LOCATION AS NEEDED TO WHERE WEB THICKNESS IS ¾" MINIMUM.
7. NO REPAIRS SHALL COMMENCE UNTIL ALL MEASUREMENTS HAVE BEEN MADE AND MATERIALS ARE ON HAND FOR THE REPAIR.
8. THE CONTRACTOR SHALL ASSUME ALL EXISTING COATINGS CONTAIN LEAD UNLESS OTHERWISE DETERMINED BY TESTING. ALL DEBRIS CREATED BY OPERATIONS SHALL BE PROPERLY CONTAINED AND DISPOSED OF.


ASHFIELD
CONWAY
PROJECT LOCATION
BRIDGE NO. C–20–005
Ashfield Road
South River
Ashfield Road
Ashfield Road
Ashfield Road

DOCUMENT A00820

Massachusetts Department of Transportation
Conditions of Custody

REQUEST FOR RELEASE OF MASSDOT AUTOCAD FILES FORM
(Only to be used following award of contract)

City/Town: ASHFIELD-CHARLEMONT-CONWAY-HAWLEY Project File Number: 616282

Contract Number: 135581

Project Description: Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 1)

All AutoCAD files are provided solely as a courtesy to facilitate public access to information. MassDOT attempts to provide current and accurate information but cannot guarantee so. MassDOT provides such documents, files or other data "as is" without any warranty of any kind, either expressed or implied, including but not limited to, accuracy, reliability, omissions, completeness and currentness. The Commonwealth of Massachusetts and its Consultants shall not be liable for any claim for damages, including lost profits or other consequential, exemplary, incidental, indirect or special damages, relating in any way to the documents, files or other data accessible from this file, including, but not limited to, claims arising out of or related to electronic access or transmission of data or viruses. Because data stored on electronic media can deteriorate undetected or be modified without our knowledge, MassDOT cannot be held liable for its completeness or correctness. MassDOT makes no representation as to the compatibility of these files beyond the version of the stated CAD software.

By signing this form, I agree that it shall be my responsibility to reconcile this electronic data with the conformed contract documents, and that only the conformed contract documents shall be regarded as legal documents for this Project. I understand that this authorization does not give me the right to distribute the files. I agree to the terms above and wish to receive the AutoCAD files.

This signed form shall be emailed to the Highway Design Engineer at the MassDOT -Highway Division at the following email address:

DOTHighwayDesign@dot.state.ma.us
Attn: AutoCAD Files

Name of person requesting AutoCAD files: _____

Affiliation/Company: _____

Address: _____

_____

Telephone number: _____

Email address: _____

Signature/Date: _____

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DOCUMENT A00850

MASSACHUSETTS WETLANDS PROTECTION ACT

Request for Determination of Applicability

Ashfield - Request for Determination of Applicability (Bridge A-13-014)..... A00850-3 through 10

Ashfield - Request for Determination of Applicability (Bridge A-13-020)..... A00850-11 through 18

Ashfield - Request for Determination of Applicability (Bridge A-13-026)..... A00850-19 through 26

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Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

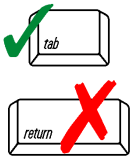
WPA Form 1- Request for Determination of Applicability

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

ASHFIELD
Municipality

A. General Information

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



1. Applicant:

TOWN OF ASHFIELD		
First Name	Last Name	
TOWN HALL, 412 MAIN STREET		
Address		
ASHFIELD	MA	01330
City/Town	State	Zip Code
413-628-4441 EXT. 7	TownAdmin@ashfield.org	
Phone Number	Email Address	

2. Property Owner (if different from Applicant):

TOWN OF ASHFIELD		
First Name	Last Name	
Address		
City/Town	State	Zip Code
Phone Number	Email Address (if known)	

3. Representative (if any)

DANIEL	CROVO	
First Name	Last Name	
GILL ENGINEERING ASSOCIATES, INC.		
Company Name		
1234 CHESTNUT STREET, SUITE 207		
Address		
NEWTON	MA	02464
City/Town	State	Zip Code
781-355-7100	dcrovo@gill-eng.com	
Phone Number	Email Address (if known)	

B. Project Description

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):

NEAR 206 APPLE VALLEY ROAD	ASHFIELD
Street Address	City/Town
42.55475	-72.80761
Latitude (Decimal Degrees Format with 5 digits after decimal e.g. XX.XXXXX)	Longitude (Decimal Degrees Format with 5 digits after decimal e.g. -XX.XXXXX)
None	Town Right of Way
Assessors' Map Number	Assessors' Lot/Parcel Number

How to find Latitude and Longitude

and how to convert to decimal degrees

b. Area Description (use additional paper, if necessary):

Town Right of Way with town owned bridge that carries Apple Valley Road over Upper Branch Clesson Brook

c. Plan and/or Map Reference(s): (use additional paper if necessary)

SEE ATTACHMENT - BRIDGE BEAM END REPAIR PLANS PREPARED BY GEA	12/17/2025
Title	Date
SEE ATTACHMENT FROM PROJECT SHIELDING SPECIFICATIONS PREPARED BY GEA	12/17/2025
Title	Date

Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands
WPA Form 1- Request for Determination of Applicability
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

ASHFIELD
Municipality

B. Project Description (cont.)

2. a. Activity/Work Description (use additional paper and/or provide plan(s) of Activity, if necessary):

The Town of Ashfield proposes to perform preservation work to the bridge carrying Apple Valley Road over Upper Branch Clesson Brook in Ashfield, MA. The proposed work includes repairs to the existing severely deteriorated steel beam ends. The work is intended to improve the current level of safety and extend the service life of the existing bridge structure.

b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

Upper Clesson Brook is a cold water fishery. All proposed work will take place on the bridge structure and not within the waterway. Site not located within an ACEC or ORW.

3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.

- ☐ Single family house on a lot recorded on or before 8/1/96
- ☐ Single family house on a lot recorded after 8/1/96
- ☐ Expansion of an existing structure on a lot recorded after 8/1/96
- ☐ Project, other than a single-family house or public project, where the applicant owned the lot before 8/7/96
- ☐ New agriculture or aquaculture project
- ☐ Public project where funds were appropriated prior to 8/7/96
- ☐ Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
- ☐ Residential subdivision; institutional, industrial, or commercial project
- ☒ Municipal project
- ☐ District, county, state, or federal government project
- ☐ Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.

b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)

N/A

Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands
WPA Form 1- Request for Determination of Applicability
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

ASHFIELD
Municipality

C. Determinations

1. I request the ASHFIELD Conservation Commission make the following determination(s). Check any that apply:

☐ a. whether the **area** depicted on plan(s) and/or map(s) referenced above is an area subject to jurisdiction of the Wetlands Protection Act.

☐ b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced above are accurately delineated.

☒ c. whether the **Activities** depicted on plan(s) referenced above is subject to the Wetlands Protection Act and its regulations.

☐ d. whether the area and/or Activities depicted on plan(s) referenced above is subject to the jurisdiction of any **municipal wetlands' ordinance** or **bylaw** of:

Name of Municipality

☐ e. whether the following **scope of alternatives** is adequate for Activities in the Riverfront Area as depicted on referenced plan(s).

D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

Signature of Applicant — Date: 1/13/2026

Signature of Representative (if any) — Date: 01/05/2026

EXCERPT FROM CONTRACT SPECIFICATIONS FOR SHIELDING UNDER BRIDGE

GENERAL REQUIREMENTS FOR DEMOLITION AND WORK INVOLVING PAINTED STEEL

Demolition and work involving painted steel shall conform to the requirements of Section 961 of the 2025 Standard Specifications.

Work Involving Painted Steel

Hazardous materials shall be removed in the immediate area of any intended welding, heating, saw cutting or burning of steel. Hazardous material removal is required to allow the demolition of structural steel, railings, drainage systems, utility supports, steel lamp posts, etc.

The Contractor shall assume that the coatings on the steel contain lead (Pb), unless otherwise determined by testing. The Contractor shall certify in writing to the Engineer the results of all testing, and shall also certify that any lead (Pb) coated steel removed from the project was not reused or buried, but was sent to a scrap metal recycling facility.

Implement and maintain programs and procedures, which comply with the requirements of this specification and all applicable standards and regulations. Comply with all applicable regulations even if the regulation is not specifically referenced herein. If a state or local regulation is more restrictive than the regulation of this specification, follow the more restrictive requirements.

This requirement is intended only for the demolition and preparation prior to repair and does not include provisions for recoating of steel.

Environmental

All applicable portions of Sections 961.65 “Worker Protection” and 961.66 “Environmental Protection and Monitoring” shall be followed when performing this work.

During chemical stripping a hand washing facility may be used in lieu of a decontamination/changing facility.

Hazardous material shall be collected during the disassembly and disposed of as outlined in Section 961.68 “Handling of Hazardous Waste and Reporting Release Programs”.

The applicable submittals shall be according to Section 961.69 “Submittals”.

Cleaning/Removal

Cutting Or Burning Of Steel

All surfaces to be welded, heated, saw cut or burned shall be cleaned so as to remove all contaminants and/or hazardous materials, which could be discharged to the environment as a function of the subsequent operations.

Lead paint shall be removed in its entirety in an area prescribed by a 6 inch (15 cm) minimum offset from the required work. The paint removal operation may be dry abrasive blasting, wet abrasive blasting or chemical stripping.

Proper level of containment shall be used when performing this work in accordance with Section 961.67 "Containment". Full containment is not required during chemical stripping operation however; the Contractor shall install proper shielding and/or tarpaulins under the chemical stripping operations in order to catch all debris generated during this procedure. A cleaned area must be inspected and approved before the demolition operations are started.

During cleaning operations the Contractor shall be required to furnish and erect temporary floodlights illuminating the steel surface at a minimum of 30-foot candles. This lighting shall be used in areas where there is insufficient lighting for proper cleaning operations and inspection. The Contractor shall supply electrical power.

The Contractor shall provide support for interim and final inspection of the bridge during cleaning operations. This support shall include the necessary traffic controls and safe access to the work.

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For purposes of limiting the lead (Pb) dust, the Contractor will be required to dampen the lead paint work areas.

The Contractor shall install a proper shielding and/or tarpaulins under all lead-paint-coated surfaces to be shear cut or bolts or rivets ordered removed in order to catch any loose lead paint chips, dust or particles.

PLANS AND DETAIL DRAWINGS
(Supplementing Subsection 5.02)

Plans for the existing bridge dated December 1938 are available upon request from Gill Engineering Associates. Existing conditions shown on the plans were depicted from the existing plans, and visual observations. The latest MassDOT inspection report is also available upon request. The Contractor shall perform his/her own investigation of the existing bridge to determine its condition and details necessary for construction and base his/her bid thereon.

PROTECTION OF UTILITIES AND PROPERTY
(Supplementing Subsection 7.13)

Apple Valley Rd over Upper Branch Clesson Brook

DEP WETLANDS & NHESP PRIORITY HABITATS OF RARE SPECIES DETAILED WITH OUTLINES

DEP Wetlands Detailed With Outlines

- Barrier Beach System
- Barrier Beach-Deep Marsh
- Barrier Beach-Wooded Swamp Mixed Trees
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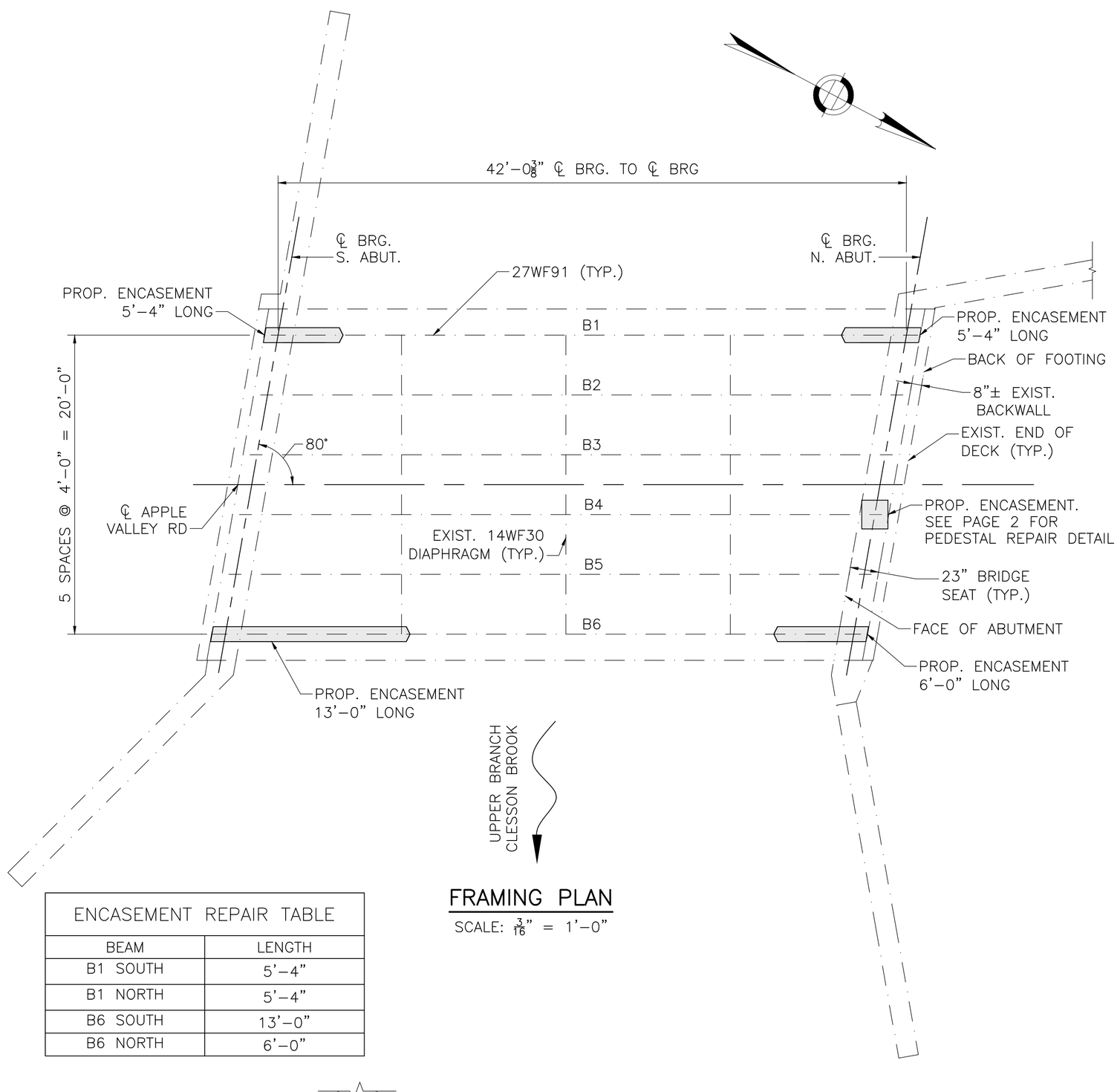
A00850 - 8

Proposal No. 616282-135581

Printed Dec 30, 2025



FRAMING PLAN

SCALE: 1/16" = 1'-0"

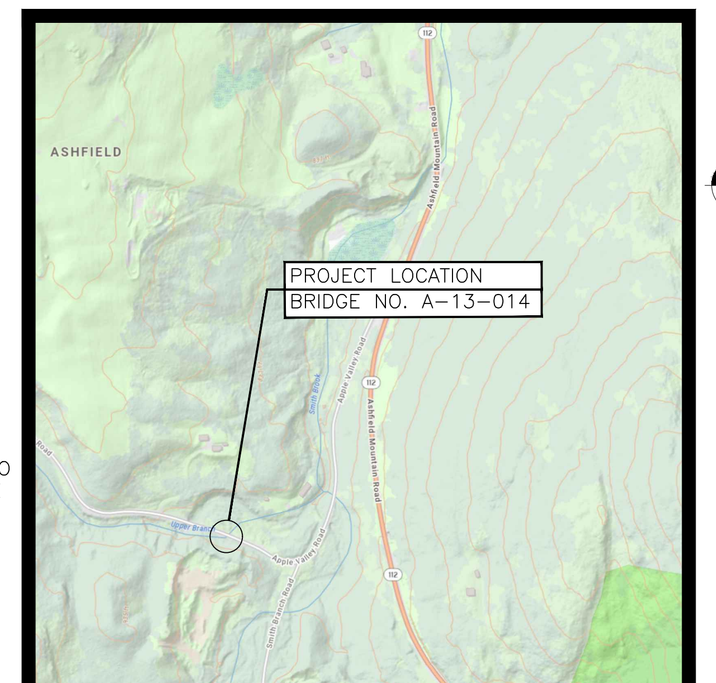
ENCASEMENT REPAIR TABLE	
BEAM	LENGTH
B1 SOUTH	5'-4"
B1 NORTH	5'-4"
B6 SOUTH	13'-0"
B6 NORTH	6'-0"

GENERAL NOTES

1. GENERAL DESIGN IN ACCORDANCE WITH THE 17TH EDITION OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES WITH INTERIM SPECIFICATIONS THROUGH 2002, FOR H20 LOADING.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE RELEVANT PROVISIONS OF THE 2025 MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES WITH THE LATEST UPDATES AND SUPPLEMENTAL SPECIFICATIONS.
3. THESE DRAWINGS WERE FORMATTED FOR 24"x36" PLAN SHEETS. SCALES NOTED ON THE DRAWINGS ARE NOT APPLICABLE TO REDUCED SIZE PRINTS.
4. EXISTING STRUCTURE DIMENSIONS AND DETAILS ARE ACCORDING TO ORIGINAL CONSTRUCTION DRAWINGS, OBSERVATION, AND FIELD MEASUREMENTS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE AND ESTABLISH ALL DIMENSIONS AND EXISTING DETAILS NECESSARY FOR COMPLETION OF ALL WORK BY FIELD MEASUREMENT (I.E. BEARING LOCATIONS, EXISTING REPAIRS, ETC.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY AND ACCURACY THEREOF, AND SHALL NOT ORDER ANY MATERIAL OR COMMENCE ANY FABRICATION UNTIL THEY HAVE MADE THE REQUIRED MEASUREMENTS ON THE ACTUAL STRUCTURE AND THE EXTENT OF THE PROPOSED WORK HAS BEEN APPROVED BY THE ENGINEER.
5. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY NOT TO DAMAGE UTILITIES, EQUIPMENT, STRUCTURES, OR THOSE PORTIONS OF THE SUPERSTRUCTURE THAT ARE TO REMAIN IN PLACE, THAT ARE TO BE REUSED, OR THAT ARE TO REMAIN THE PROPERTY OF OTHERS. ANY PORTION OF THE SUPERSTRUCTURE AND SUBSTRUCTURE TO REMAIN WHICH BECOMES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE.
6. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31 GRADE 60 EPOXY COATED.
7. THREADED RODS SHALL BE ¾"ø AND CONFORM TO ASTM A307 GRADE A. NUTS AND WASHERS SHALL CONFORM TO AASHTO M291 AND M293 RESPECTIVELY. RODS, NUTS, AND WASHERS SHALL BE GALVANIZED.
8. NO REPAIRS SHALL COMMENCE UNTIL ALL MEASUREMENTS HAVE BEEN MADE AND MATERIALS (EXCLUDING CONCRETE) ARE ON HAND FOR THE REPAIR.
9. THE CONTRACTOR SHALL ASSUME ALL EXISTING COATINGS CONTAIN LEAD UNLESS OTHERWISE DETERMINED BY TESTING. ALL DEBRIS CREATED BY OPERATIONS SHALL BE PROPERLY CONTAINED AND DISPOSED OF.

CONSTRUCTION PROCEDURE

1. THE EXISTING CONCRETE BRIDGE SEATS, BACKWALLS, AND STRUCTURAL STEEL SHALL BE CLEANED PRIOR TO PLACEMENT OF THE BEAM END ENCASEMENT. ALL DEBRIS AND DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE BEAM SEAT. THE EXISTING STRUCTURAL STEEL SHALL BE POWER TOOL CLEANED TO REMOVE ALL LOOSE RUST AND PAINT. TIGHTLY ADHERING PAINT DOES NOT NEED TO BE REMOVED.
2. PRIOR TO PLACEMENT OF THE BEAM END ENCASEMENT, EXPANDED POLYSTYRENE SHALL BE ATTACHED WITH ADHESIVE TO ALL SURFACES OF THE BACKWALLS AND BEAM SEATS. THE CONTRACTOR SHALL INSURE THAT ALL THE EXISTING ABUTMENT CONCRETE IS PROPERLY LINED WITH EXPANDED POLYSTYRENE SO THAT THE ENCASEMENT CONCRETE DOES NOT COME IN CONTACT WITH EXISTING ABUTMENT CONCRETE.
3. CEMENT CONCRETE SHALL BE 5000 PSI, ⅜", 710 HP CEMENT CONCRETE WITH A 7" ±1" SLUMP FROM A MASSDOT APPROVED PRODUCER. MIX DESIGN SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO PLACEMENT.
4. CEMENT CONCRETE CONSOLIDATION SHALL BE ACHIEVED USING CONCRETE PENCIL VIBRATORS THAT ARE INSERTED THRU OPENINGS IN THE TOP OF FORMS. A MINIMUM OF TWO CONCRETE PENCIL VIBRATORS SHALL BE ON-SITE DURING CONCRETE PLACEMENT
5. THE CONTRACTOR'S MEANS AND METHODS OF CONTAINING AND DISPOSING DEBRIS AND OBTAINING ACCESS TO THE BEAM ENDS TO BE ENCASED SHALL BE CONSIDERED INCIDENTAL TO THE WORK WITHOUT SEPARATE COMPENSATION. THE CONTRACTOR SHALL INSTALL A SHIELDING AND CONTAINMENT SYSTEM PRIOR TO PERFORMING THE CLEANING OF THE STEEL SURFACES TO BE ENCASED IN ORDER TO COLLECT ALL LOOSE PAINT, DEBRIS, AND PARTICLES.
6. THE CONTRACTOR SHALL SUBMIT THE PROPOSED METHOD OF DELIVERING THE CONCRETE INTO THE FORM WORK, EXCAVATING A 5" HOLE THROUGH THE DECK IS ACCEPTABLE.



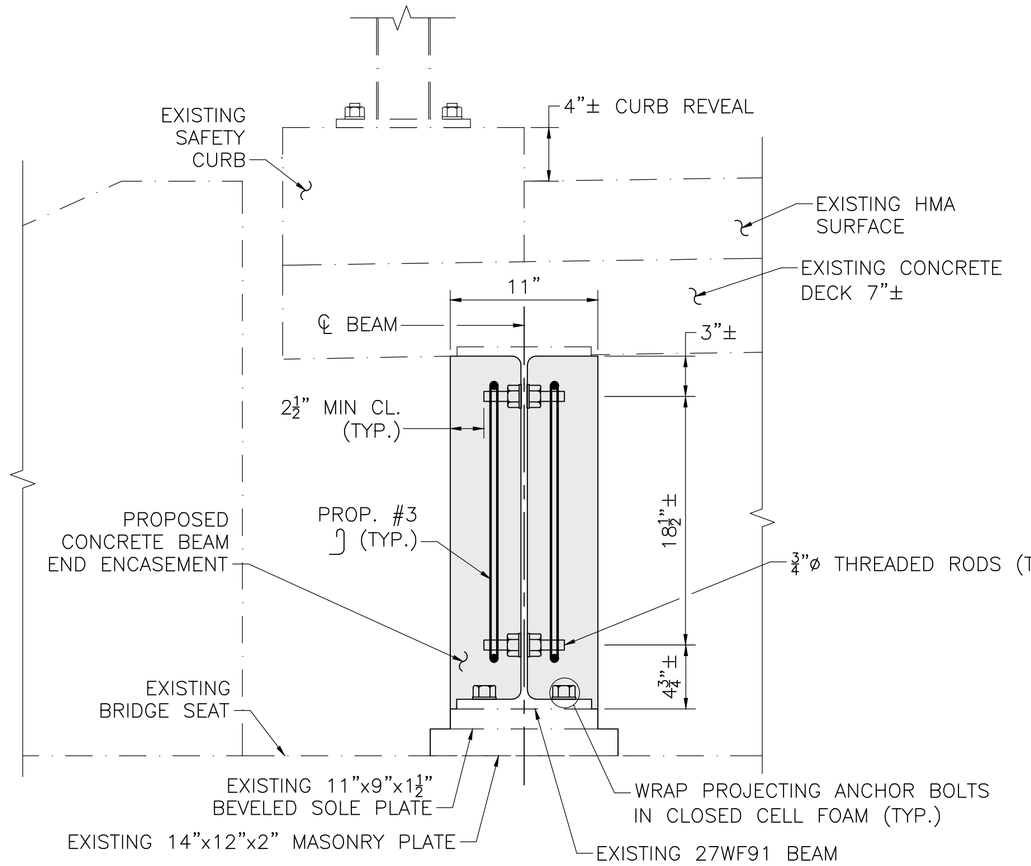
LOCUS

NOT TO SCALE

ESTIMATED QUANTITIES

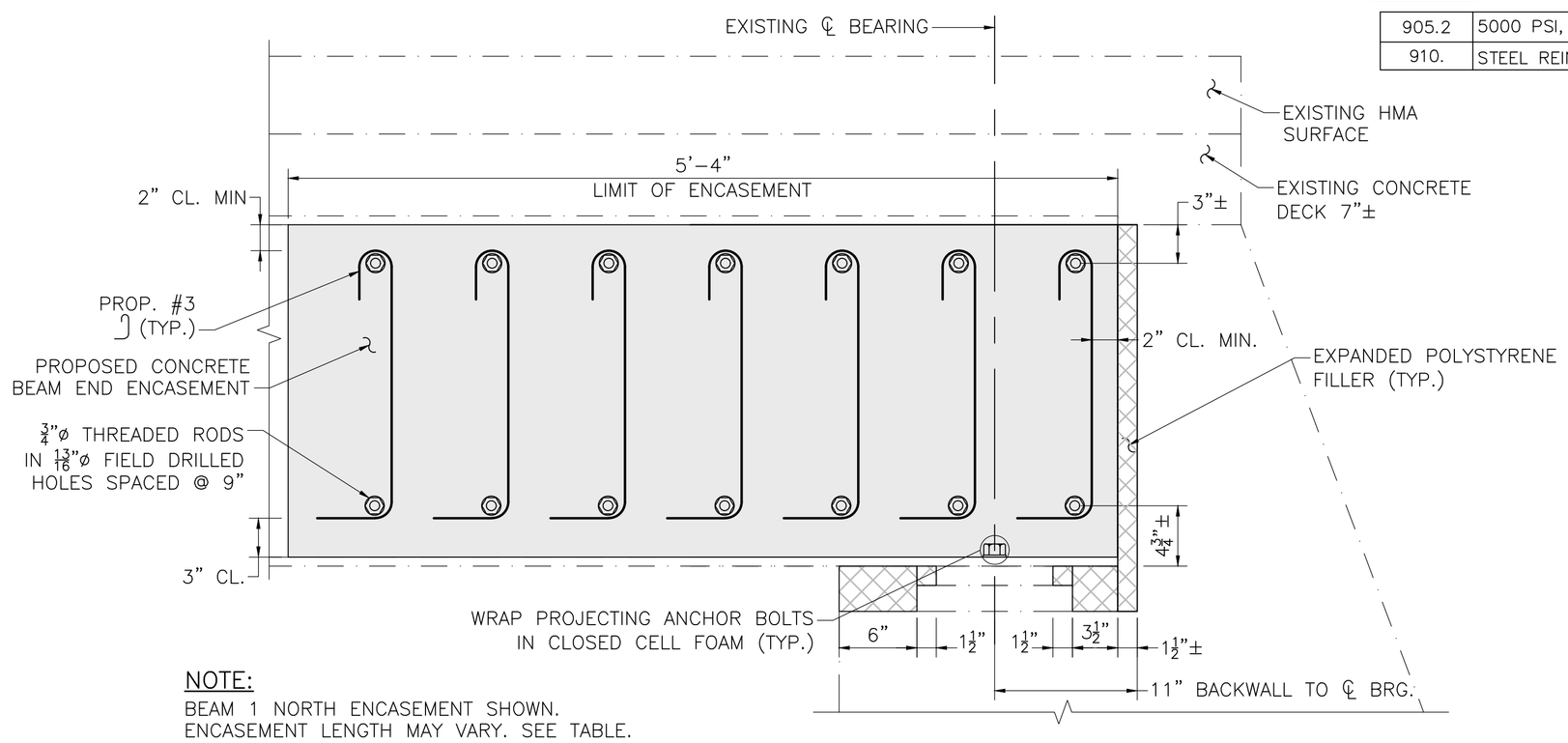
NOT GUARANTEED

ITEM NO.	ITEM	UNIT	QUANTITY
905.2	5000 PSI, 3/8 INCH, 710 HP CEMENT CONCRETE	CY	3
910.	STEEL REINFORCEMENT FOR STRUCTURES	LB	112



FASCIA BEAM TYPICAL SECTION

SCALE: 1½" = 1'-0"



NOTE:
BEAM 1 NORTH ENCASEMENT SHOWN.
ENCASEMENT LENGTH MAY VARY. SEE TABLE.

TYPICAL LONGITUDINAL SECTION AT BEAM 1

SCALE: 1½" = 1'-0"

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

STATE BRIDGE ENGINEER — DATE

GILL ENGINEERING
1234 CHESTNUT STREET
SUITE 207
NEWTON, MA 02464
781-355-7100
781-355-7101 (FAX)

DATE	DRW. BY	CALC. BY	APPRV. BY	DESCRIPTION
12/17/25	ELM	ELM	DSC	ISSUED FOR CHAPTER 85 REVIEW

REGISTERED PROFESSIONAL ENGINEER — DATE

BEAM END ENCASEMENT REPAIRS

TOWN OF ASHFIELD

BRIDGE REPAIRS FOR ASHFIELD A-13-014 (04N)
APPLE VALLEY ROAD OVER UPPER BRANCH CLESSON BROOK

GENERAL NOTES AND REPAIR DETAILS

SHEET 1 OF 1

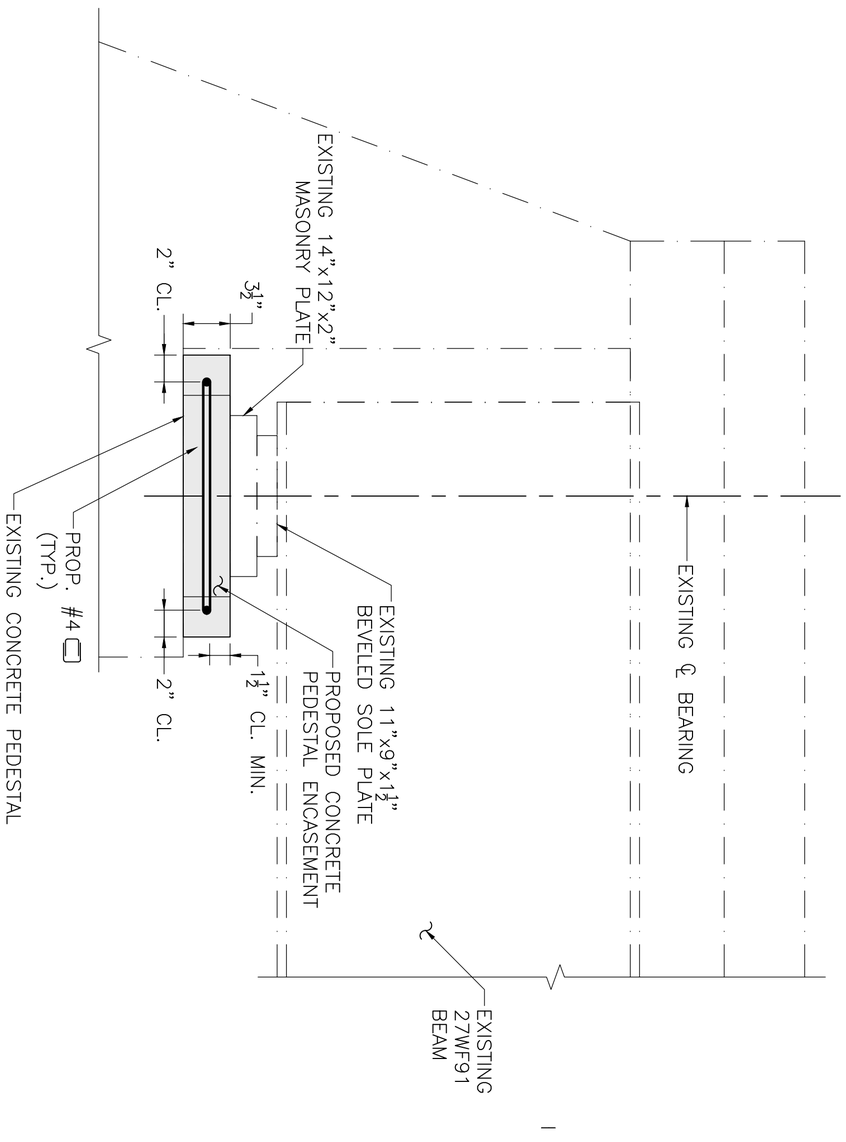
Plotted on 17-Dec-2025 10:18 AM
A13014 Encasement (Pumped Concrete).dwg

Proposal No. 616282-135581

A00850 - 9

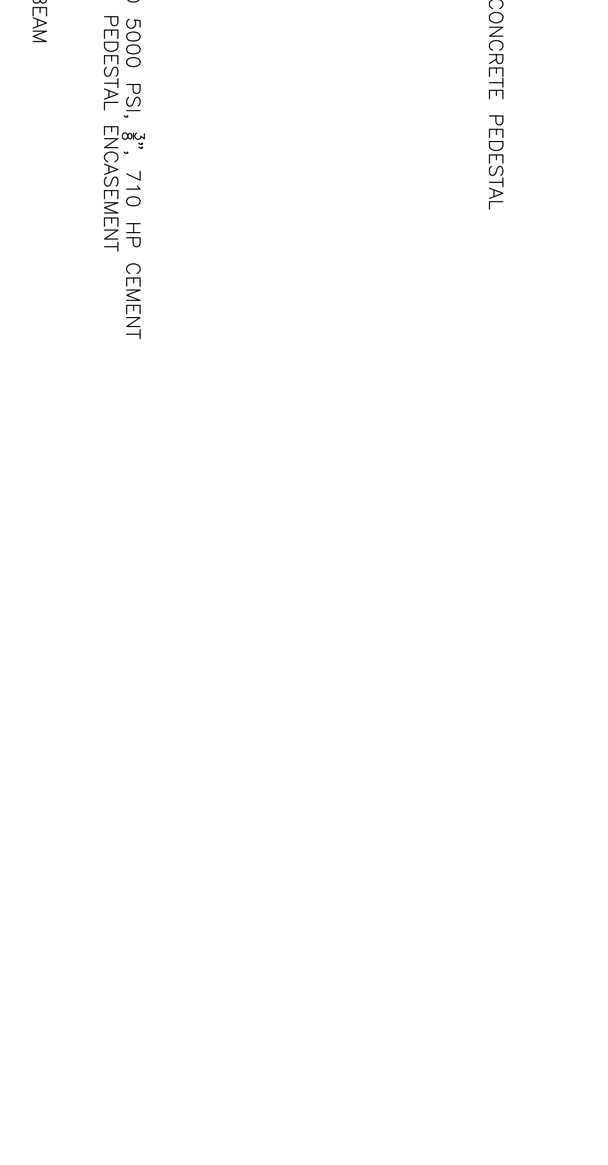
LONGITUDINAL SECTION AT PEDESTAL

SCALE: 1½" = 1'–0"



ENCASEMENT REPAIR BEAM 4 NORTH ABUTMENT

SCALE: 1½" = 1'–0"



COMMONWEALTH OF MASSACHUSETTS
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APPROVED UNDER PROVISIONS OF
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STATE BRIDGE ENGINEER _____ DATE _____

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SHEET 1 OF 1

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DATE	DRW. BY	CALC. BY	APPRV. BY	DESCRIPTION
12/17/25	ELM	ELM	DSC	ISSUED FOR CHAPTER 85 REVIEW

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781-355-7100
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Proposal No. 616282-135581

A13014 Encasement (Pumped Concrete).dwg Plotted on 17-Dec-2025 10:23 AM

Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

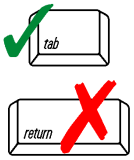
WPA Form 1- Request for Determination of Applicability

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

ASHFIELD
Municipality

A. General Information

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



1. Applicant:

TOWN OF ASHFIELD
First Name

Last Name

TOWN HALL, 412 MAIN STREET
Address

ASHFIELD
City/Town

MA
State

01330
Zip Code

413-628-4441 EXT. 7
Phone Number

TownAdmin@ashfield.org
Email Address

2. Property Owner (if different from Applicant):

TOWN OF ASHFIELD
First Name

Last Name

Address

City/Town

State

Zip Code

Phone Number

Email Address (if known)

3. Representative (if any)

DANIEL
First Name

CROVO
Last Name

GILL ENGINEERING ASSOCIATES, INC.
Company Name

1234 CHESTNUT STREET, SUITE 207
Address

NEWTON
City/Town

MA
State

02464
Zip Code

781-355-7100
Phone Number

dcrovo@gill-eng.com
Email Address (if known)

B. Project Description

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):

NEAR 206 APPLE VALLEY ROAD
Street Address

ASHFIELD
City/Town

How to find Latitude and Longitude

42.55475
Latitude (Decimal Degrees Format with 5 digits after decimal e.g. XX.XXXXX)

-72.80761
Longitude (Decimal Degrees Format with 5 digits after decimal e.g. -XX.XXXXX)

and how to convert to decimal degrees

None
Assessors' Map Number

Town Right of Way
Assessors' Lot/Parcel Number

b. Area Description (use additional paper, if necessary):

Town Right of Way with town owned bridge that carries Apple Valley Road over Upper Branch Clesson Brook

c. Plan and/or Map Reference(s): (use additional paper if necessary)

SEE ATTACHMENT - BRIDGE BEAM END REPAIR PLANS PREPARED BY GEA
Title

12/17/2025
Date

SEE ATTACHMENT FROM PROJECT SHIELDING SPECIFICATIONS PREPARED BY GEA
Title

12/17/2025
Date

Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability

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

ASHFIELD
Municipality

B. Project Description (cont.)

2. a. Activity/Work Description (use additional paper and/or provide plan(s) of Activity, if necessary):

The Town of Ashfield proposes to perform preservation work to the bridge carrying Apple Valley Road over Upper Branch Clesson Brook in Ashfield, MA. The proposed work includes repairs to the existing severely deteriorated steel beam ends. The work is intended to improve the current level of safety and extend the service life of the existing bridge structure.

b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

Upper Clesson Brook is a cold water fishery. All proposed work will take place on the bridge structure and not within the waterway. Site not located within an ACEC or ORW.

3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.

- ☐ Single family house on a lot recorded on or before 8/1/96
- ☐ Single family house on a lot recorded after 8/1/96
- ☐ Expansion of an existing structure on a lot recorded after 8/1/96
- ☐ Project, other than a single-family house or public project, where the applicant owned the lot before 8/7/96
- ☐ New agriculture or aquaculture project
- ☐ Public project where funds were appropriated prior to 8/7/96
- ☐ Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
- ☐ Residential subdivision; institutional, industrial, or commercial project
- ☑ Municipal project
- ☐ District, county, state, or federal government project
- ☐ Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.

b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)

N/A

Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands
WPA Form 1- Request for Determination of Applicability ASHFIELD
Municipality
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

C. Determinations

1. I request the ASHFIELD Conservation Commission make the following determination(s). Check any that apply:

☐ a. whether the **area** depicted on plan(s) and/or map(s) referenced above is an area subject to jurisdiction of the Wetlands Protection Act.

☐ b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced above are accurately delineated.

☒ c. whether the **Activities** depicted on plan(s) referenced above is subject to the Wetlands Protection Act and its regulations.

☐ d. whether the area and/or Activities depicted on plan(s) referenced above is subject to the jurisdiction of any **municipal wetlands' ordinance** or **bylaw** of:

Name of Municipality

☐ e. whether the following **scope of alternatives** is adequate for Activities in the Riverfront Area as depicted on referenced plan(s).

D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

Signature of Applicant — Date: 1/13/2026

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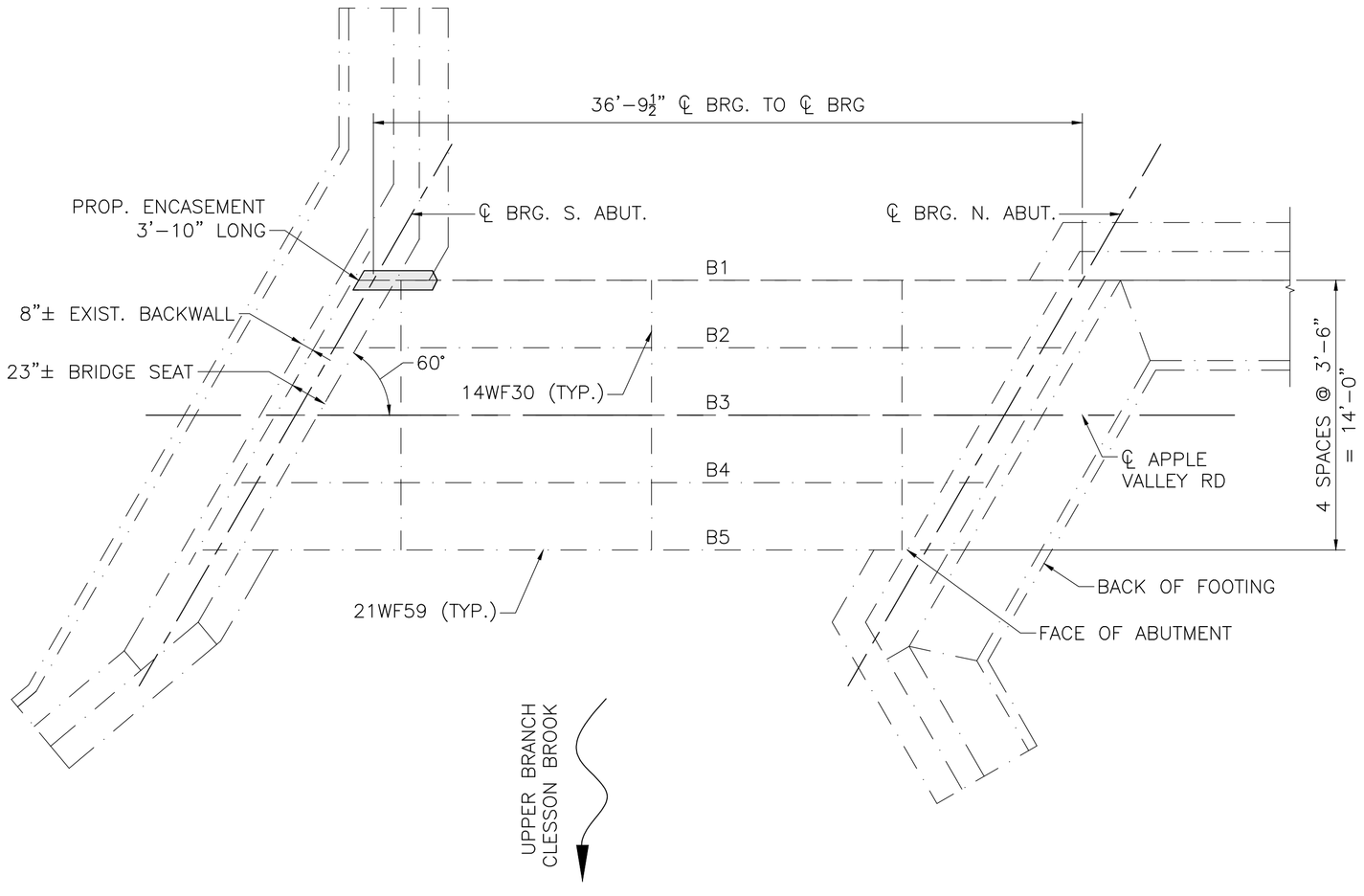
Property Tax Parcels

DEP WETLANDS & NHESP PRIORITY HABITATS OF RARE SPECIES DETAILED WITH OUTLINES

A00850 - 16

Proposal No. 616282-135581

Printed Dec 30, 2025



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2. ALL WORK SHALL BE IN ACCORDANCE WITH THE RELEVANT PROVISIONS OF THE 2025 MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES WITH THE LATEST UPDATES AND SUPPLEMENTAL SPECIFICATIONS.
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3. CEMENT CONCRETE SHALL BE 5000 PSI, ⅜", 710 HP CEMENT CONCRETE WITH A 7" ±1" SLUMP FROM A MASSDOT APPROVED PRODUCER. MIX DESIGN SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO PLACEMENT.
4. CEMENT CONCRETE CONSOLIDATION SHALL BE ACHIEVED USING CONCRETE PENCIL VIBRATORS THAT ARE INSERTED THRU OPENINGS IN THE TOP OF FORMS. A MINIMUM OF TWO CONCRETE PENCIL VIBRATORS SHALL BE ON-SITE DURING CONCRETE PLACEMENT
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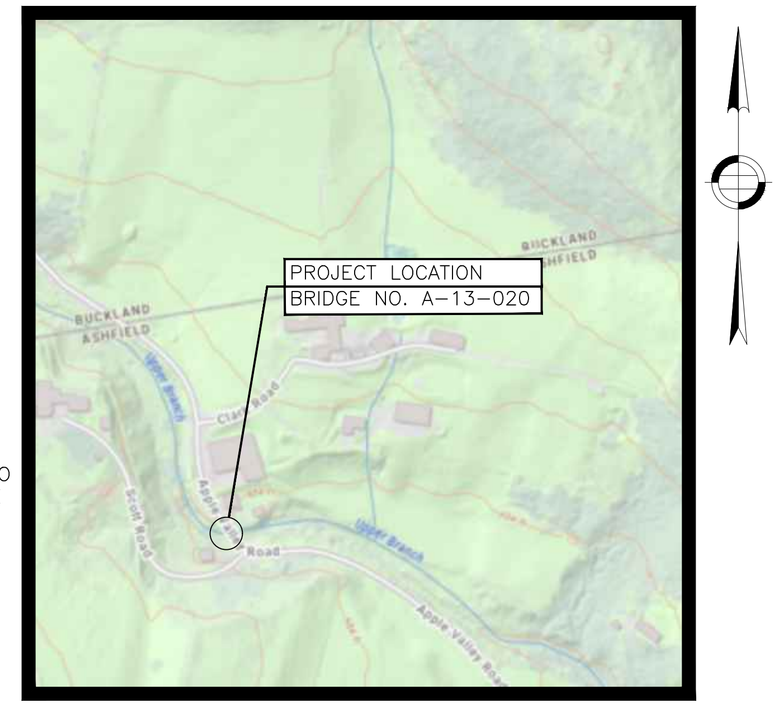
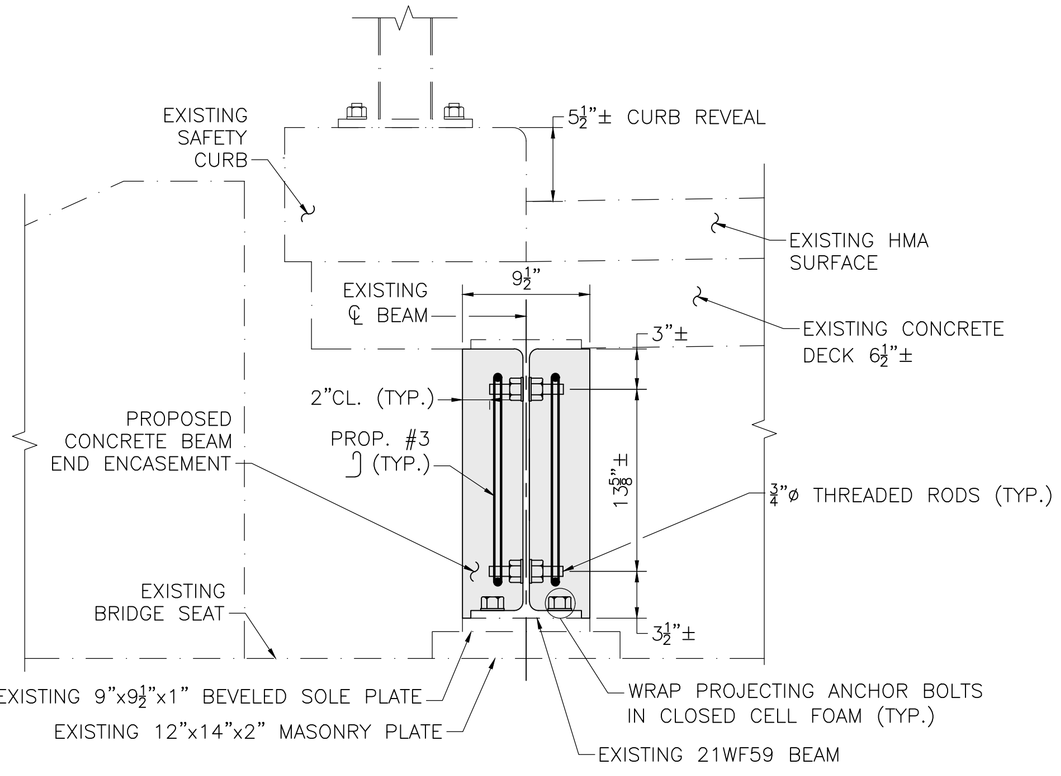
6. THE CONTRACTOR SHALL SUBMIT THE PROPOSED METHOD OF DELIVERING THE CONCRETE INTO THE FORM WORK, EXCAVATING A 5" HOLE THROUGH THE DECK IS ACCEPTABLE.



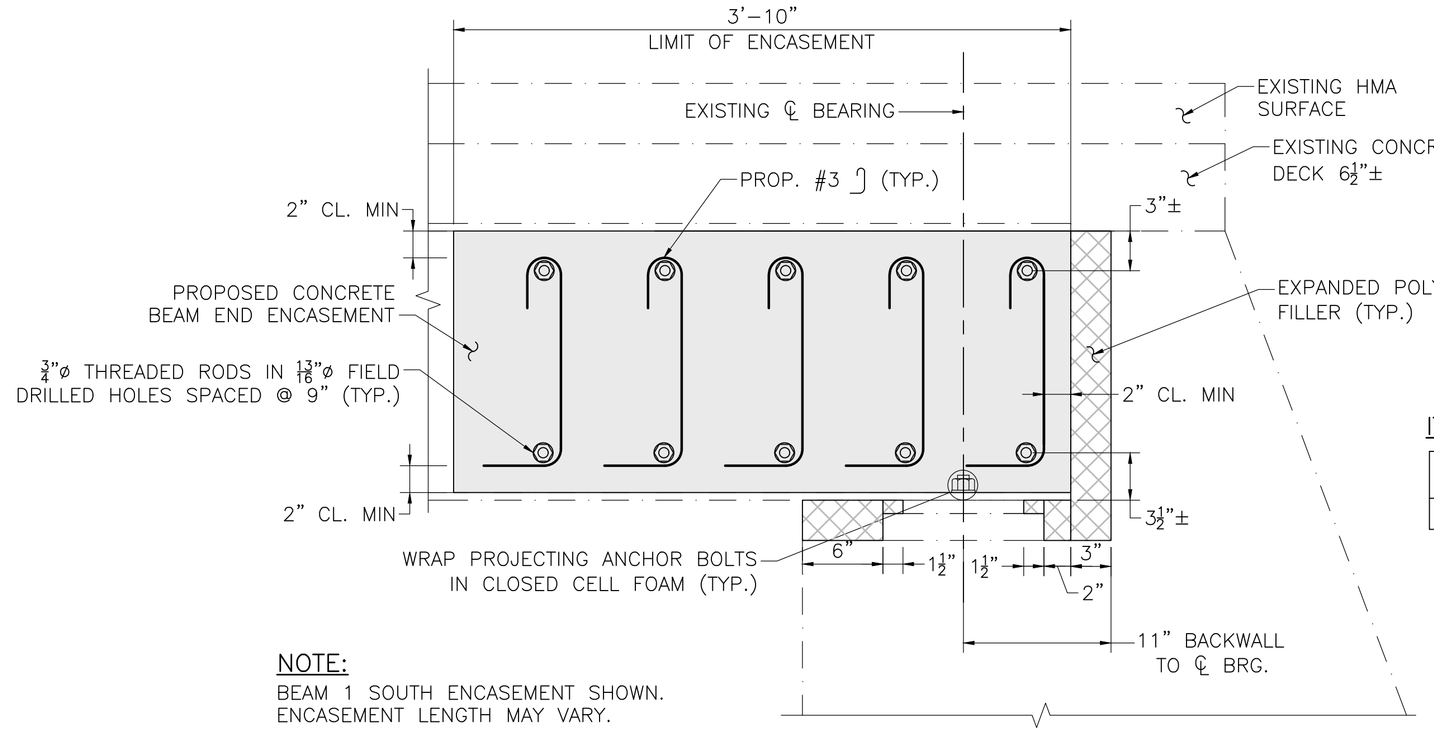
LOCUS

NOT TO SCALE



FASCIA BEAM TYPICAL SECTION

SCALE: 1½" = 1'-0"



NOTE:

BEAM 1 SOUTH ENCASEMENT SHOWN. ENCASEMENT LENGTH MAY VARY.

TYPICAL LONGITUDINAL SECTION AT BEAM 1

SCALE: 1½" = 1'-0"

ESTIMATED QUANTITIES

NOT GUARANTEED

ITEM NO.	ITEM	UNIT	QUANTITY
905.2	5000 PSI, 3/8 INCH, 710 HP CEMENT CONCRETE	CY	1
910.	STEEL REINFORCEMENT FOR STRUCTURES	LB	16

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

STATE BRIDGE ENGINEER — DATE

GILL ENGINEERING
1234 CHESTNUT STREET
SUITE 207
NEWTON, MA 02464
781-355-7100
781-355-7101 (FAX)

Plotted on 15-Dec-2025 2:57 PM

A13020 Encasement (Pumped Concrete).dwg

DATE	DRW. BY	CALC. BY	APPRV. BY	DESCRIPTION
12/15/25	ELM	ELM	DSC	ISSUED FOR CHAPTER 85 REVIEW

REGISTERED PROFESSIONAL ENGINEER — DATE

BEAM END ENCASEMENT REPAIRS

TOWN OF ASHFIELD

BRIDGE REPAIRS FOR ASHFIELD A-13-020 (0FM)
APPLE VALLEY ROAD OVER UPPER BRANCH CLESSON BROOK

GENERAL NOTES AND REPAIR DETAILS

SHEET 1 OF 1

Proposal No. 619282-135581

A00850 - 17

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Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

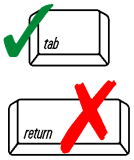
WPA Form 1- Request for Determination of Applicability

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

ASHFIELD
Municipality

A. General Information

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



1. Applicant:

TOWN OF ASHFIELD — First Name
Last Name
TOWN HALL, 412 MAIN STREET — Address
ASHFIELD — City/Town
MA — State
01330 — Zip Code
413-628-4441 EXT. 7 — Phone Number
TownAdmin@ashfield.org — Email Address

2. Property Owner (if different from Applicant):

TOWN OF ASHFIELD — First Name
Last Name
Address
City/Town
State
Zip Code
Phone Number
Email Address (if known)

3. Representative (if any)

DANIEL — First Name
CROVO — Last Name
GILL ENGINEERING ASSOCIATES, INC. — Company Name
1234 CHESTNUT STREET, SUITE 207 — Address
NEWTON — City/Town
MA — State
02464 — Zip Code
781-355-7100 — Phone Number
dcrovo@gill-eng.com — Email Address (if known)

B. Project Description

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):

NEAR 206 APPLE VALLEY ROAD — Street Address
ASHFIELD — City/Town
42.55475 — Latitude (Decimal Degrees Format with 5 digits after decimal e.g. XX.XXXXX)
-72.80761 — Longitude (Decimal Degrees Format with 5 digits after decimal e.g. -XX.XXXXX)

How to find Latitude and Longitude

and how to convert to decimal degrees

None — Assessors' Map Number
Town Right of Way — Assessors' Lot/Parcel Number

b. Area Description (use additional paper, if necessary):

Town Right of Way with town owned bridge that carries Apple Valley Road over Upper Branch Clesson Brook

c. Plan and/or Map Reference(s): (use additional paper if necessary)

SEE ATTACHMENT - BRIDGE BEAM END REPAIR PLANS PREPARED BY GEA — Title
12/17/2025 — Date
SEE ATTACHMENT FROM PROJECT SHIELDING SPECIFICATIONS PREPARED BY GEA — Title
12/17/2025 — Date

Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability

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

ASHFIELD
Municipality

B. Project Description (cont.)

2. a. Activity/Work Description (use additional paper and/or provide plan(s) of Activity, if necessary):

The Town of Ashfield proposes to perform preservation work to the bridge carrying Apple Valley Road over Upper Branch Clesson Brook in Ashfield, MA. The proposed work includes repairs to the existing severely deteriorated steel beam ends. The work is intended to improve the current level of safety and extend the service life of the existing bridge structure.

b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

Upper Clesson Brook is a cold water fishery. All proposed work will take place on the bridge structure and not within the waterway. Site not located within an ACEC or ORW.

3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.

- ☐ Single family house on a lot recorded on or before 8/1/96
- ☐ Single family house on a lot recorded after 8/1/96
- ☐ Expansion of an existing structure on a lot recorded after 8/1/96
- ☐ Project, other than a single-family house or public project, where the applicant owned the lot before 8/7/96
- ☐ New agriculture or aquaculture project
- ☐ Public project where funds were appropriated prior to 8/7/96
- ☐ Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
- ☐ Residential subdivision; institutional, industrial, or commercial project
- ☑ Municipal project
- ☐ District, county, state, or federal government project
- ☐ Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.

b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)

N/A

Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands
WPA Form 1- Request for Determination of Applicability
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

ASHFIELD
Municipality

C. Determinations

1. I request the ASHFIELD Conservation Commission make the following determination(s). Check any that apply:

☐ a. whether the **area** depicted on plan(s) and/or map(s) referenced above is an area subject to jurisdiction of the Wetlands Protection Act.

☐ b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced above are accurately delineated.

☒ c. whether the **Activities** depicted on plan(s) referenced above is subject to the Wetlands Protection Act and its regulations.

☐ d. whether the area and/or Activities depicted on plan(s) referenced above is subject to the jurisdiction of any **municipal wetlands' ordinance** or **bylaw** of:

Name of Municipality

☐ e. whether the following **scope of alternatives** is adequate for Activities in the Riverfront Area as depicted on referenced plan(s).

D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

Signature of Applicant — Date: 1/13/2026

Daniel S. Crowe — Signature of Representative (If any) — Date: 01/05/2026

EXCERPT FROM CONTRACT SPECIFICATIONS FOR SHIELDING UNDER BRIDGE

GENERAL REQUIREMENTS FOR DEMOLITION AND WORK INVOLVING PAINTED STEEL

Demolition and work involving painted steel shall conform to the requirements of Section 961 of the 2025 Standard Specifications.

Work Involving Painted Steel

Hazardous materials shall be removed in the immediate area of any intended welding, heating, saw cutting or burning of steel. Hazardous material removal is required to allow the demolition of structural steel, railings, drainage systems, utility supports, steel lamp posts, etc.

The Contractor shall assume that the coatings on the steel contain lead (Pb), unless otherwise determined by testing. The Contractor shall certify in writing to the Engineer the results of all testing, and shall also certify that any lead (Pb) coated steel removed from the project was not reused or buried, but was sent to a scrap metal recycling facility.

Implement and maintain programs and procedures, which comply with the requirements of this specification and all applicable standards and regulations. Comply with all applicable regulations even if the regulation is not specifically referenced herein. If a state or local regulation is more restrictive than the regulation of this specification, follow the more restrictive requirements.

This requirement is intended only for the demolition and preparation prior to repair and does not include provisions for recoating of steel.

Environmental

All applicable portions of Sections 961.65 “Worker Protection” and 961.66 “Environmental Protection and Monitoring” shall be followed when performing this work.

During chemical stripping a hand washing facility may be used in lieu of a decontamination/changing facility.

Hazardous material shall be collected during the disassembly and disposed of as outlined in Section 961.68 “Handling of Hazardous Waste and Reporting Release Programs”.

The applicable submittals shall be according to Section 961.69 “Submittals”.

Cleaning/Removal

Cutting Or Burning Of Steel

All surfaces to be welded, heated, saw cut or burned shall be cleaned so as to remove all contaminants and/or hazardous materials, which could be discharged to the environment as a function of the subsequent operations.

Lead paint shall be removed in its entirety in an area prescribed by a 6 inch (15 cm) minimum offset from the required work. The paint removal operation may be dry abrasive blasting, wet abrasive blasting or chemical stripping.

Proper level of containment shall be used when performing this work in accordance with Section 961.67 "Containment". Full containment is not required during chemical stripping operation however; the Contractor shall install proper shielding and/or tarpaulins under the chemical stripping operations in order to catch all debris generated during this procedure. A cleaned area must be inspected and approved before the demolition operations are started.

During cleaning operations the Contractor shall be required to furnish and erect temporary floodlights illuminating the steel surface at a minimum of 30-foot candles. This lighting shall be used in areas where there is insufficient lighting for proper cleaning operations and inspection. The Contractor shall supply electrical power.

The Contractor shall provide support for interim and final inspection of the bridge during cleaning operations. This support shall include the necessary traffic controls and safe access to the work.

Mechanical Disassembly Of Steel

All surfaces to be mechanically disassembled by shear cutting or removing bolts or rivets shall not require deleading. When shear cutting or removing bolts or rivets, the Contractor shall not use any method that will cause dust and/or particles to be emitted and/or dispersed into the environment to an extent that would expose the workers above the Action Levels of $30\mu g/m^3$.

For purposes of limiting the lead (Pb) dust, the Contractor will be required to dampen the lead paint work areas.

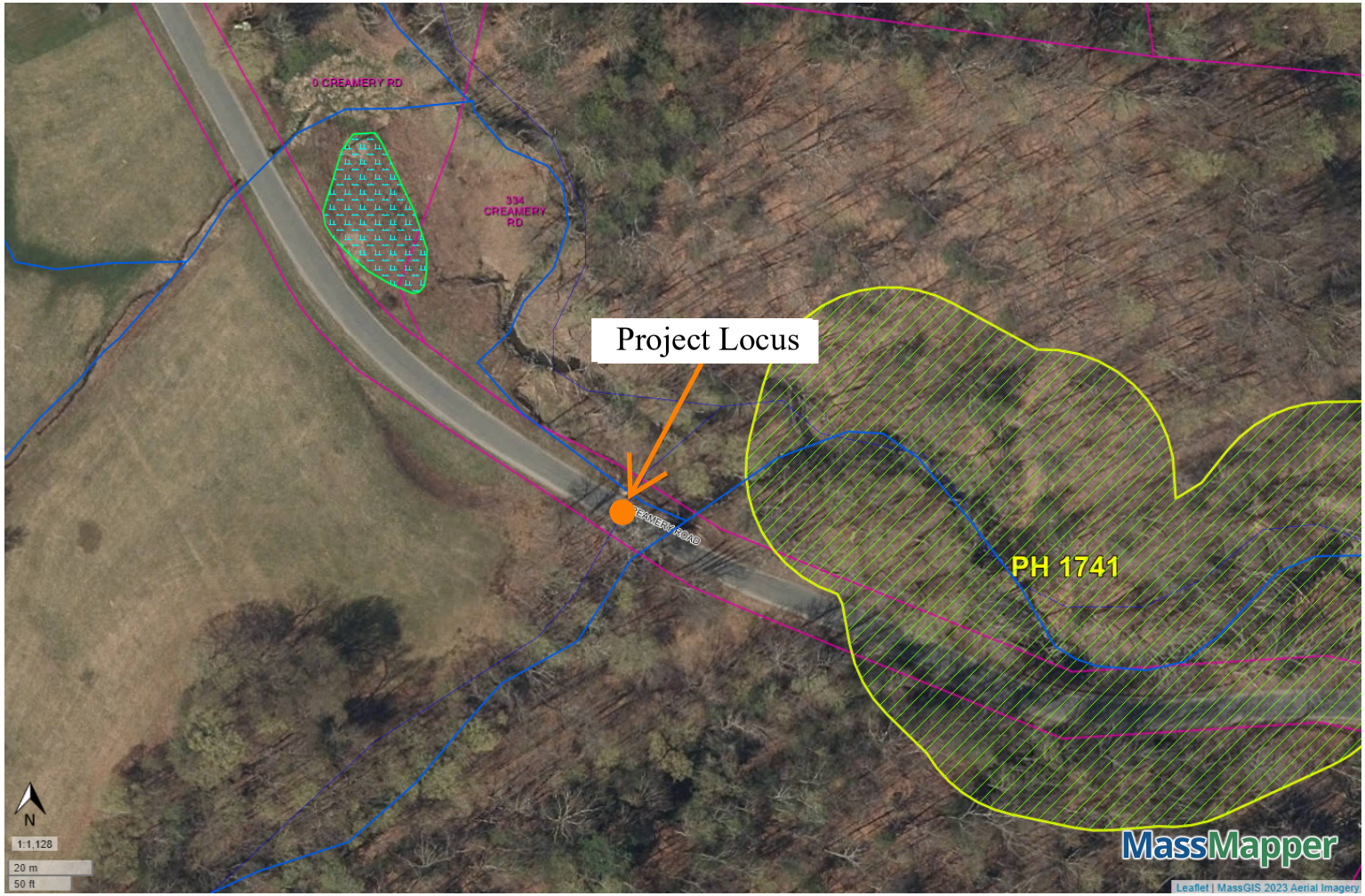
The Contractor shall install a proper shielding and/or tarpaulins under all lead-paint-coated surfaces to be shear cut or bolts or rivets ordered removed in order to catch any loose lead paint chips, dust or particles.

PLANS AND DETAIL DRAWINGS
(Supplementing Subsection 5.02)

Plans for the existing bridge dated November 1938 are available upon request from Gill Engineering Associates. Existing conditions shown on the plans were depicted from the existing plans, and visual observations. The latest MassDOT inspection report is also available upon request. The Contractor shall perform his/her own investigation of the existing bridge to determine its condition and details necessary for construction and base his/her bid thereon.

PROTECTION OF UTILITIES AND PROPERTY
(Supplementing Subsection 7.13)

Creamery Rd over Creamery Brook



DEP Wetlands Detailed With Outlines

- Barrier Beach System
- Barrier Beach-Deep Marsh
- Barrier Beach-Wooded Swamp Mixed Trees
- Barrier Beach-Coastal Beach
- Barrier Beach-Coastal Dune
- Barrier Beach-Marsh
- Barrier Beach-Salt Marsh
- Barrier Beach-Shrub Swamp
- Barrier Beach-Wooded Swamp Coniferous
- Barrier Beach-Wooded Swamp Deciduous
- Bog
- Coastal Bank Bluff or Sea Cliff
- Coastal Beach
- Coastal Dune
- Cranberry Bog
- Deep Marsh
- Barrier Beach-Open Water
- Open Water
- Rocky Intertidal Shore
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Tidal Flat
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- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees

DEP Wetlands Linear Features

- SHORELINE
- HYDROLOGIC CONNECTION
- MEAN WATER LINE
- APPARENT WETLAND LIMIT
- CLOSURE LINE
- EDGE OF INTERPRETED AREA

NHESP Estimated Habitats of Rare Wildlife

DFW Coldwater Fisheries Resources

NHESP Priority Habitats of Rare Species

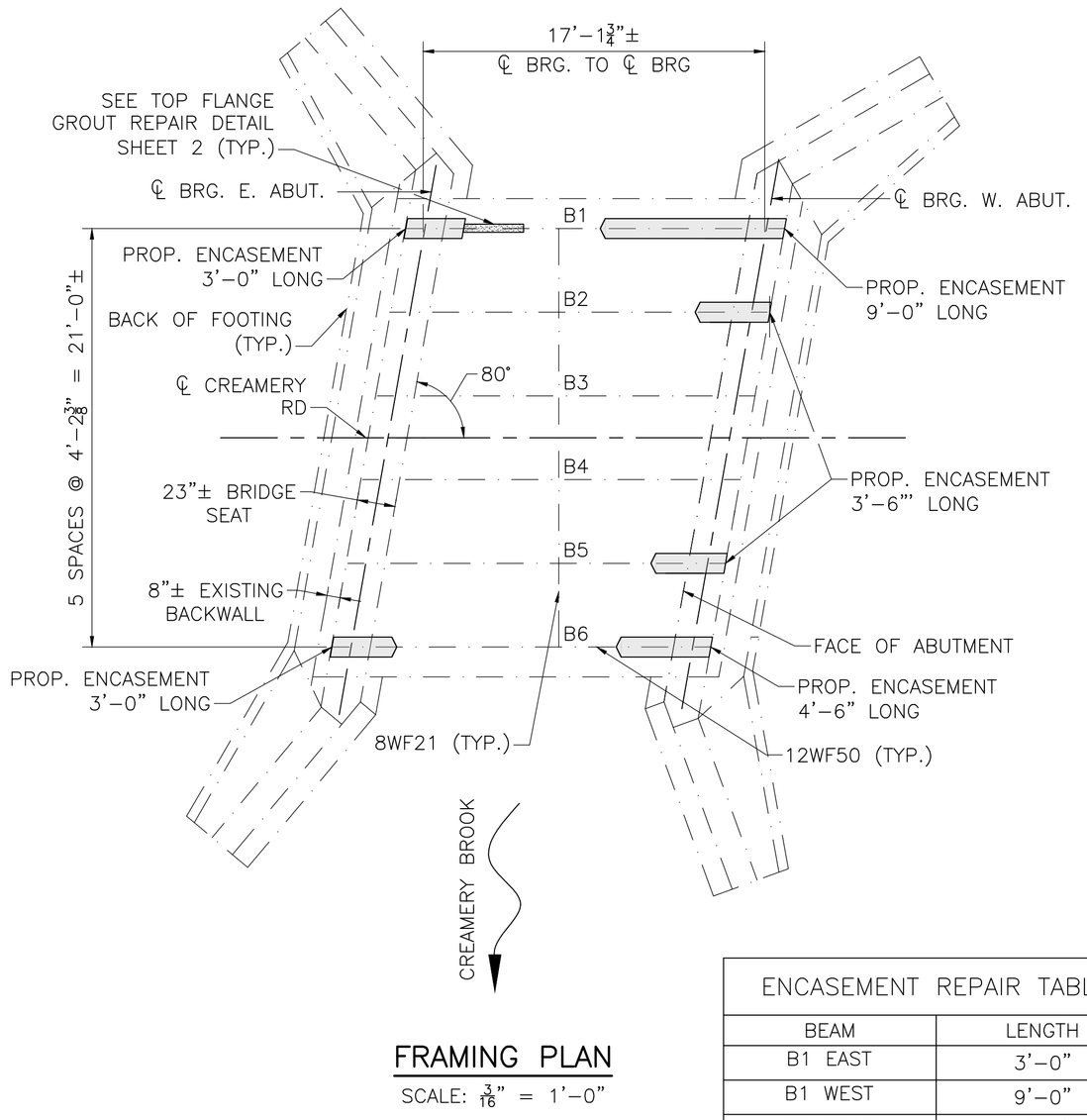
MassGIS-MassDOT Roads Street Names

Property Tax Parcels

A00850 - 24

Proposal No. 616282-135581

Printed Dec 31, 2025



FRAMING PLAN

SCALE: $\frac{3}{16}$" = 1'–0"

ENCASEMENT REPAIR TABLE	
BEAM	LENGTH
B1 EAST	3'–0"
B1 WEST	9'–0"
B2 WEST	3'–6"
B5 WEST	3'–6"
B6 EAST	3'–0"
B6 WEST	4'–6"

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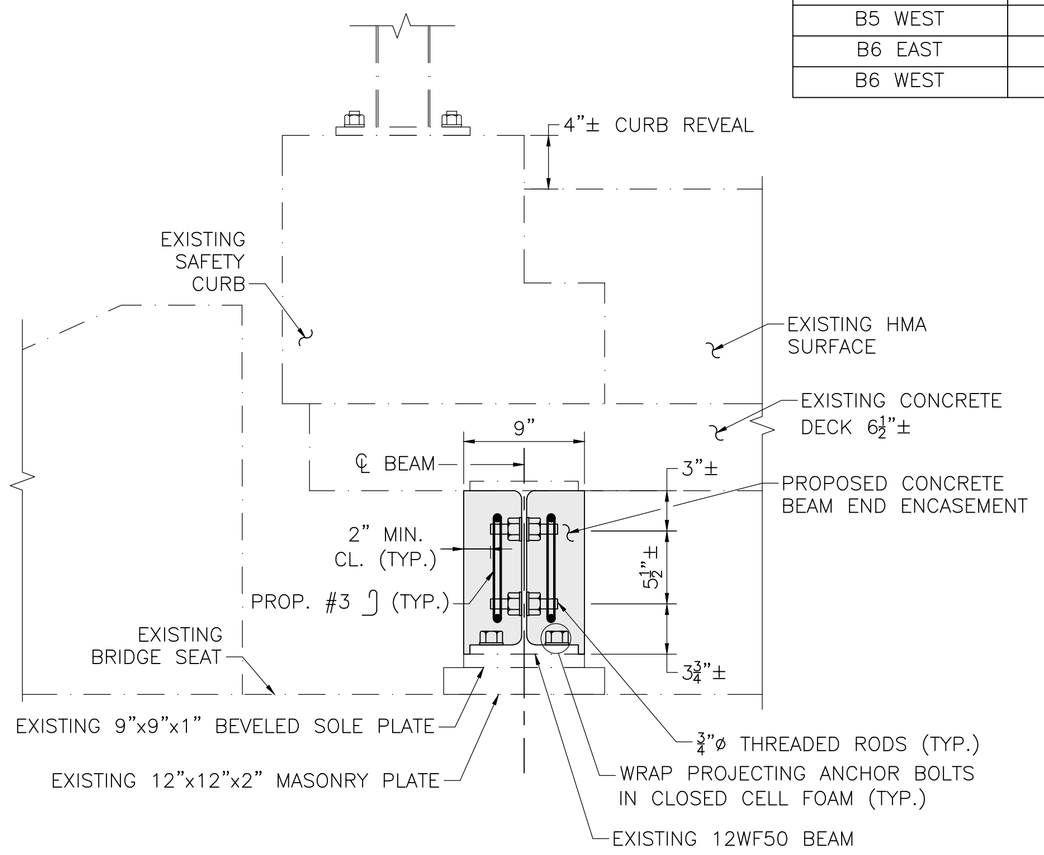
LOCUS
NOT TO SCALE

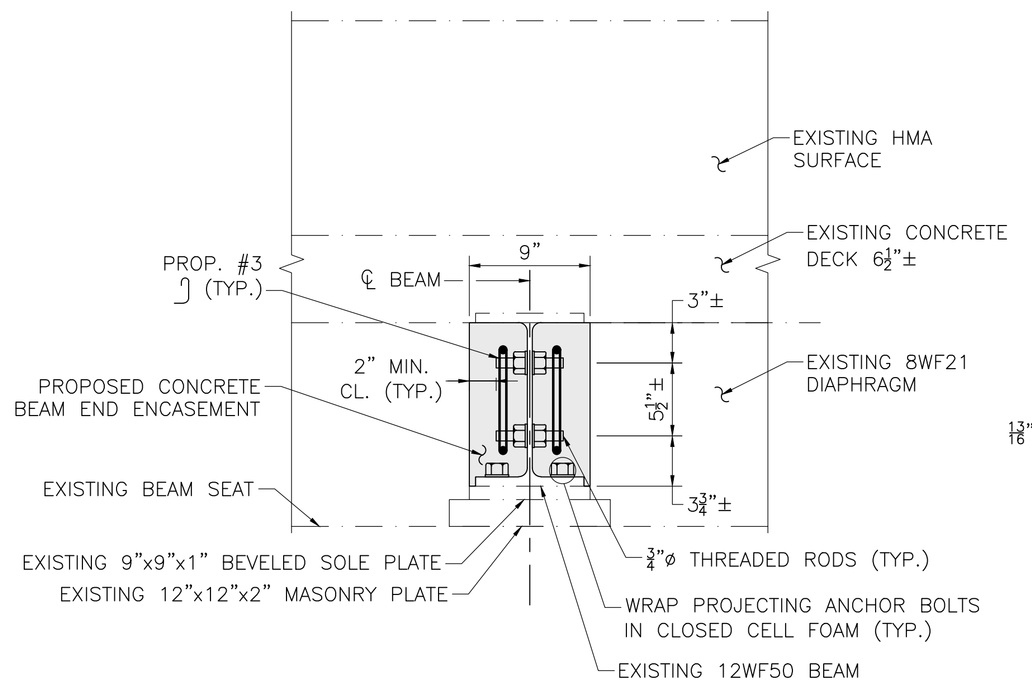
ESTIMATED QUANTITIES

NOT GUARANTEED

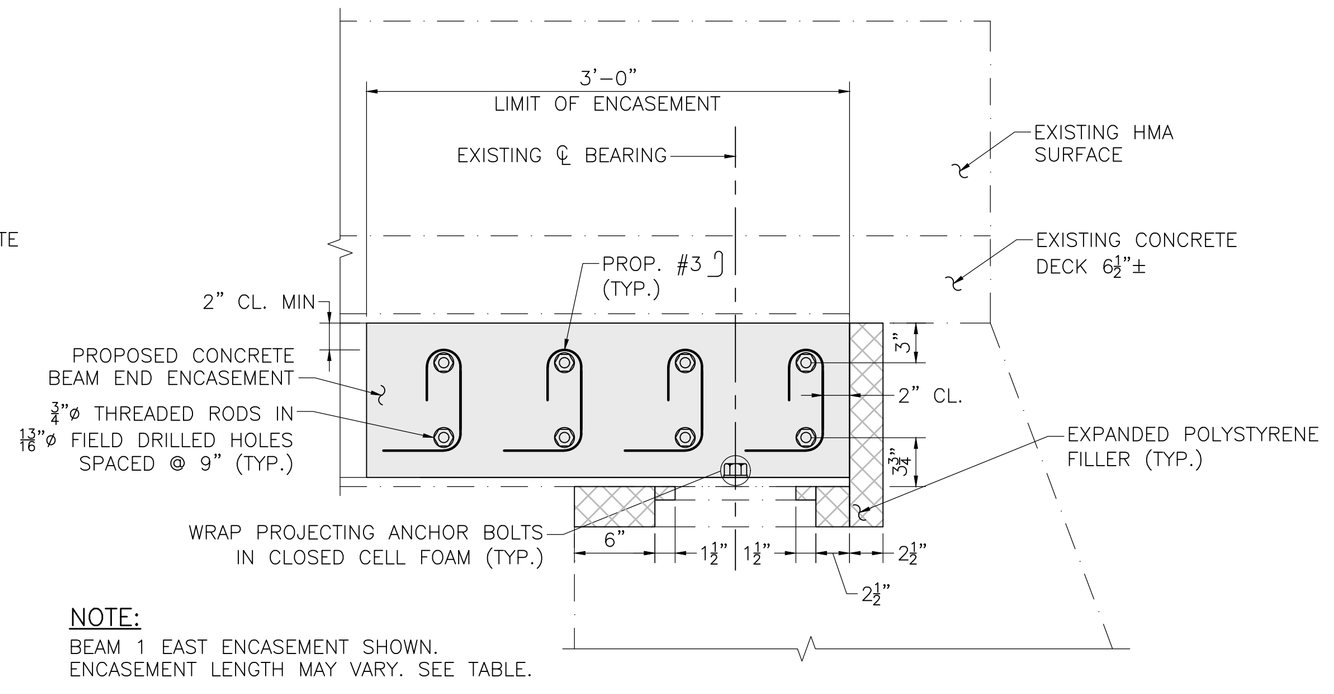
ITEM NO.	ITEM	UNIT	QUANTITY
905.2	5000 PSI, 3/8 INCH, 710 HP CEMENT CONCRETE	CY	1
910.	STEEL REINFORCEMENT FOR STRUCTURES	LB	81
909.21	GROUTING OF SEPARATION BETWEEN DECK AND TOP FLANGE	FT	5



FASCIA BEAM TYPICAL SECTION
SCALE: 1½" = 1'–0"



INTERIOR BEAM TYPICAL SECTION
SCALE: 1½" = 1'–0"



NOTE:
BEAM 1 EAST ENCASEMENT SHOWN.
ENCASEMENT LENGTH MAY VARY. SEE TABLE.

TYPICAL LONGITUDINAL SECTION AT BEAM 1
SCALE: 1½" = 1'–0"

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

STATE BRIDGE ENGINEER — DATE

GILL ENGINEERING
1234 CHESTNUT STREET
SUITE 207
NEWTON, MA 02464
781-355-7100
781-355-7101 (FAX)

Plotted on 18-Dec-2025 10:36 AM
A13026 Encasement (Pumped Concrete).dwg

DESCRIPTION	DATE
ISSUED FOR CHAPTER 85 REVIEW	

DRW. BY	CALC. BY	APPRV. BY
ELM	ELM	DSC

DATE 12/18/25

REGISTERED PROFESSIONAL ENGINEER

BEAM END ENCASEMENT REPAIRS

TOWN OF ASHFIELD

BRIDGE REPAIRS FOR ASHFIELD A–13–026 (5CT)
CREAMERY RD OVER CREAMERY BROOK

GENERAL NOTES AND REPAIR DETAILS

SHEET 1 OF 2

Proposal No. 616282-135581

A00850 - 25

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DOCUMENT A00851

MASSACHUSETTS WETLANDS PROTECTION ACT

Determination of Applicability

Ashfield – Determination of Applicability (Bridge A-13-014) ..... A00851-3 through 10

Ashfield – Determination of Applicability (Bridge A-13-020) ..... A00851-11 through 18

Ashfield – Determination of Applicability (Bridge A-13-026) ..... A00851-19 through 26

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Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

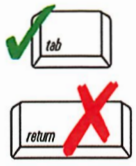
WPA Form 2 – Determination of Applicability

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

Ashfield
Municipality

A. General Information

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



From:

Ashfield
Conservation Commission

To: Applicant

Town of Ashfield
Name
PO Box 560
Mailing Address
Ashfield | MA | 01330
City/Town | State | Zip Code
413-628-4441 Ext. 7
Phone Number
TownAdmin@ashfield.org
Email Address

Property Owner (if different from applicant):

Name
Mailing Address
City/Town | State | Zip Code
Phone Number
Email Address (if known)

1. Project Location:

Near 206 Apple Valley Road
Street Address
Ashfield
City/Town
42.55475
Latitude (Decimal Degrees Format with 5 digits after decimal e.g. XX.XXXXX)
-72.80761
Longitude (Decimal Degrees Format with 5 digits after decimal e.g. -XX.XXXXX)
None
Assessors Map/Plat Number
Town Right-of-Way
Parcel/Lot Number

How to find Latitude and Longitude

and how to convert to decimal degrees

2. Date Request Filed:

2/11/2026

B. Determination

Pursuant to the authority of M.G.L. c. 131, § 40, the Conservation Commission considered your Request for Determination of Applicability, with its supporting documentation, and made the following Determination.

Project Description (if applicable):

Preservation work to bridge over Upper Branch Clesson Brook, consisting of repairs to severely deteriorated steel beam ends.

Title and Date (or Revised Date if applicable) of Final Plans and Other Documents:

Title	Date
Bridge Beam End Repair Plans Prepared by GEA	12/17/2025
Project Shielding Specifications Prepared by GEA	12/17/2025

Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 2 – Determination of Applicability

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

Ashfield
Municipality

B. Determination (cont.)

The following Determination(s) is/are applicable to the proposed site and/or project relative to the Wetlands Protection Act and regulations:

Positive Determination
Note: No work within the jurisdiction of the Wetlands Protection Act may proceed until a final Order of Conditions (issued following submittal of a Notice of Intent or Abbreviated Notice of Intent) has been received from the issuing authority (i.e., Conservation Commission or the Department of Environmental Protection).

☐ 1. The area described on the referenced plan(s) is an area subject to jurisdiction under the Act. Removing, filling, dredging, or altering of the area requires the filing of a Notice of Intent.

☐ 2a. The boundary delineations of the following resource areas described on the referenced plan(s) are confirmed as accurate. Therefore, the resource area boundaries confirmed in this Determination are binding as to all decisions rendered pursuant to the Wetlands Protection Act and its regulations regarding such boundaries for as long as this Determination is valid.

☐ 2b. The boundaries of Wetlands Resource Area(s) and Buffer Zone(s) listed below are not confirmed by this Determination, regardless of whether such boundaries are contained on the plans attached to this Determination or to the Request for Determination.

☐ 3. The work described on referenced plan(s) and document(s) is within an area subject to jurisdiction under the Act and will remove, fill, dredge, or alter that area. Therefore, said work requires the filing of a Notice of Intent.

☐ 4. The work described on referenced plan(s) and document(s) is within the Buffer Zone and will alter an Area subject to jurisdiction under the Act. Therefore, said work requires the filing of a Notice of Intent

☐ 5. The area and/or work described on referenced plan(s) and document(s) is subject to review and approval by:

Name of Municipality

Pursuant to the following municipal wetland ordinance or bylaw:

Name | Ordinance or Bylaw Citation

Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 2 – Determination of Applicability

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

Ashfield
Municipality

B. Determination (cont.)

☐ 6. The following area and/or work, if any, is subject to a municipal ordinance or bylaw but not subject to the Massachusetts Wetlands Protection Act:

☐ 7. If a Notice of Intent is filed for the work in the Riverfront Area described on referenced plan(s) and document(s), which includes all or part of the work described in the Request, the applicant must consider the following alternatives. (Refer to the wetland regulations at 10.58(4)(c) 2. for more information about the scope of alternatives requirements):

- ☐ Alternatives limited to the lot on which the project is located.
- ☐ Alternatives limited to the lot on which the project is located, the subdivided lots, and any adjacent lots formerly or presently owned by the same owner.
- ☐ Alternatives limited to the original parcel on which the project is located, the subdivided parcels, any adjacent parcels, and any other land which can reasonably be obtained within the municipality.
- ☐ Alternatives extend to any sites which can reasonably be obtained within the appropriate region of the state.

Negative Determination

Note: No further action under the Wetlands Protection Act is required by the applicant. However, if the Department is requested to issue a Superseding Determination of Applicability, work may not proceed on this project unless the Department fails to act on such request within 35 days of the date the request is post-marked for certified mail or hand delivered to the Department. Work may then proceed at the owner's risk only upon notice to the Department and to the Conservation Commission. Requirements for requests for Superseding Determinations are listed at the end of this document.

☐ 1. The area described in the Request is not an area subject to jurisdiction under the Act or the Buffer Zone.

☒ 2. The work described in the Request is within an area subject to jurisdiction under the Act, but will not remove, fill, dredge, or alter that area. Therefore, said work does not require the filing of a Notice of Intent.

☐ 3. The work described in the Request is within the Buffer Zone, as defined in the regulations, but will not alter an Area subject to jurisdiction under the Act. Therefore, said work does not require the filing of a Notice of Intent, subject to the following conditions (if any).

☐ 4. The work described in the Request is not within an Area subject to jurisdiction under the Act (including the Buffer Zone). Therefore, said work does not require the filing of a Notice of Intent, unless and until said work alters an Area subject to jurisdiction under the Act.

Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 2 – Determination of Applicability

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

Ashfield
Municipality

B. Determination (cont.)

☐ 5. The area described in the Request is subject to jurisdiction under the Act. Since the work described therein meets the requirements for the following exemption, as specified in the Act and the regulations, no Notice of Intent is required:

Exempt Activity (site applicable statutory/regulatory provisions)

☐ 6. The area and/or work described in the Request is not subject to additional review and approval by:

Name of Municipality

Pursuant to a municipal wetlands' ordinance or bylaw.

Name

Ordinance or Bylaw Citation

C. Authorization

This Determination is issued to the applicant and delivered as follows:

☒ By hand delivery on 3/18/2026
Date

☐ By certified mail, return receipt request on
Date

Certified Mail Number

A copy of this Determination has been sent on the same date, considered the date of issuance, **to** the appropriate DEP Regional Office and the property owner (if not the applicant) in the manner as follows:

DEP

☒ By eDEP DOA Submittal Platform (Attach this form and supporting documents)

☐ By USPS mail
Date

☐ By hand delivery
Date

Property Owner (if not applicant)

☐ By mail
Date

☐ By hand delivery
Date

Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 2 – Determination of Applicability

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

Ashfield
Municipality

C. Authorization (cont.)

This Determination is valid for **three years** from the date of issuance (except Determinations for Vegetation Management Plans which are valid for the duration of the Plan). This Determination does not relieve the applicant from complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.

This Determination must be signed by a majority of the Conservation Commission. As noted above, a copy must be sent to the appropriate DEP Regional Office (see https://www.mass.gov/service-details/massdep-regional-offices-by-community) and the property owner (if different from the applicant) on the same date that the Applicant is issued this Determination.

Ashfield Conservation Commission
Issuing Authority

Signatures:

Signature	Printed Name
Brian E. Clark	Brian E. CLARK
Seth T. Cranston	Seth T. Cranston
[signature]	ALEXANDRU OARCEA

D. Appeals

The applicant, owner, any person aggrieved by this Determination, any owner of land abutting the land upon which the proposed work is to be done, 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 Department of Environmental Protection Regional Office (see https://www.mass.gov/service-details/massdep-regional-offices-by-community) to issue a Superseding Determination of Applicability. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and Fee Transmittal Form (see 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 Determination. 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. The request shall state clearly and concisely the objections to the Determination which is being appealed. To the extent that the Determination is based on a municipal ordinance or bylaw and not on the Massachusetts Wetlands Protection Act or regulations, the Department of Environmental Protection has no appellate jurisdiction.

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:

Provided by DEP

A. Request Information

1. Location of Project

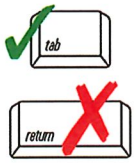
a. Street Address

b. City/Town, Zip

c. Check number

d. Fee amount

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



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)):

Name

Mailing Address

City/Town

State

Zip Code

Phone Number

Fax Number (if applicable)

4. DEP File Number:

B. Instructions

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

☐ Superseding Order of Conditions – Fee: $120 (single family house projects) or $245 (all other projects)

☐ Superseding Determination of Applicability – Fee: $120

☐ Superseding Order of Resource Area Delineation – Fee: $120

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

Department of Environmental Protection
Box 4062
Boston, MA 02211

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:

Provided by DEP

B. Instructions (cont.)

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.

Conditions for Negative 2 Determination

1. The Contractor shall set up appropriate erosion controls and a debris containment system prior to the start of work as per the Repair Plans so that no construction debris enters the perennial stream.
2. Appropriate spill containment and mitigation supplies shall be stocked on-site. A full list of spill containment procedures for material used to clean surfaces and strip paint shall be submitted to the Conservation Commission prior to work.

Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 2 – Determination of Applicability

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

Ashfield
Municipality

A. General Information

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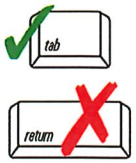


From:

Ashfield
Conservation Commission

To: Applicant

Town of Ashfield
Name
PO Box 560
Mailing Address
Ashfield | MA | 01330
City/Town | State | Zip Code
413-628-4441 Ext. 7
Phone Number
TownAdmin@ashfield.org
Email Address

Property Owner (if different from applicant):

Name
Mailing Address
City/Town | State | Zip Code
Phone Number
Email Address (if known)

1. Project Location:

Near 566 Apple Valley Road
Street Address
Ashfield
City/Town
42.56105
Latitude (Decimal Degrees Format with 5 digits after decimal e.g. XX.XXXXX)
-72.81838
Longitude (Decimal Degrees Format with 5 digits after decimal e.g. -XX.XXXXX)

How to find Latitude and Longitude

and how to convert to decimal degrees

None
Assessors Map/Plat Number
Town Right-of-Way
Parcel/Lot Number

2. Date Request Filed:

2/11/2026

B. Determination

Pursuant to the authority of M.G.L. c. 131, § 40, the Conservation Commission considered your Request for Determination of Applicability, with its supporting documentation, and made the following Determination.

Project Description (if applicable):

Preservation work to bridge over Upper Branch Clesson Brook, consisting of repairs to severely deteriorated steel beam ends.

Title and Date (or Revised Date if applicable) of Final Plans and Other Documents:

Title	Date
Bridge Beam End Repair Plans Prepared by GEA	12/15/2025
Project Shielding Specifications Prepared by GEA	1/05/2026

Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 2 – Determination of Applicability

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

Ashfield
Municipality

B. Determination (cont.)

The following Determination(s) is/are applicable to the proposed site and/or project relative to the Wetlands Protection Act and regulations:

Positive Determination
Note: No work within the jurisdiction of the Wetlands Protection Act may proceed until a final Order of Conditions (issued following submittal of a Notice of Intent or Abbreviated Notice of Intent) has been received from the issuing authority (i.e., Conservation Commission or the Department of Environmental Protection).

☐ 1. The area described on the referenced plan(s) is an area subject to jurisdiction under the Act. Removing, filling, dredging, or altering of the area requires the filing of a Notice of Intent.

☐ 2a. The boundary delineations of the following resource areas described on the referenced plan(s) are confirmed as accurate. Therefore, the resource area boundaries confirmed in this Determination are binding as to all decisions rendered pursuant to the Wetlands Protection Act and its regulations regarding such boundaries for as long as this Determination is valid.

☐ 2b. The boundaries of Wetlands Resource Area(s) and Buffer Zone(s) listed below are not confirmed by this Determination, regardless of whether such boundaries are contained on the plans attached to this Determination or to the Request for Determination.

☐ 3. The work described on referenced plan(s) and document(s) is within an area subject to jurisdiction under the Act and will remove, fill, dredge, or alter that area. Therefore, said work requires the filing of a Notice of Intent.

☐ 4. The work described on referenced plan(s) and document(s) is within the Buffer Zone and will alter an Area subject to jurisdiction under the Act. Therefore, said work requires the filing of a Notice of Intent

☐ 5. The area and/or work described on referenced plan(s) and document(s) is subject to review and approval by:

Name of Municipality

Pursuant to the following municipal wetland ordinance or bylaw:

Name | Ordinance or Bylaw Citation

Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 2 – Determination of Applicability

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

Ashfield
Municipality

B. Determination (cont.)

☐ 6. The following area and/or work, if any, is subject to a municipal ordinance or bylaw but not subject to the Massachusetts Wetlands Protection Act:

☐ 7. If a Notice of Intent is filed for the work in the Riverfront Area described on referenced plan(s) and document(s), which includes all or part of the work described in the Request, the applicant must consider the following alternatives. (Refer to the wetland regulations at 10.58(4)(c) 2. for more information about the scope of alternatives requirements):

- ☐ Alternatives limited to the lot on which the project is located.
- ☐ Alternatives limited to the lot on which the project is located, the subdivided lots, and any adjacent lots formerly or presently owned by the same owner.
- ☐ Alternatives limited to the original parcel on which the project is located, the subdivided parcels, any adjacent parcels, and any other land which can reasonably be obtained within the municipality.
- ☐ Alternatives extend to any sites which can reasonably be obtained within the appropriate region of the state.

Negative Determination

Note: No further action under the Wetlands Protection Act is required by the applicant. However, if the Department is requested to issue a Superseding Determination of Applicability, work may not proceed on this project unless the Department fails to act on such request within 35 days of the date the request is post-marked for certified mail or hand delivered to the Department. Work may then proceed at the owner's risk only upon notice to the Department and to the Conservation Commission. Requirements for requests for Superseding Determinations are listed at the end of this document.

☐ 1. The area described in the Request is not an area subject to jurisdiction under the Act or the Buffer Zone.

☒ 2. The work described in the Request is within an area subject to jurisdiction under the Act, but will not remove, fill, dredge, or alter that area. Therefore, said work does not require the filing of a Notice of Intent.

☐ 3. The work described in the Request is within the Buffer Zone, as defined in the regulations, but will not alter an Area subject to jurisdiction under the Act. Therefore, said work does not require the filing of a Notice of Intent, subject to the following conditions (if any).

☐ 4. The work described in the Request is not within an Area subject to jurisdiction under the Act (including the Buffer Zone). Therefore, said work does not require the filing of a Notice of Intent, unless and until said work alters an Area subject to jurisdiction under the Act.

Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 2 – Determination of Applicability

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

Ashfield
Municipality

B. Determination (cont.)

☐ 5. The area described in the Request is subject to jurisdiction under the Act. Since the work described therein meets the requirements for the following exemption, as specified in the Act and the regulations, no Notice of Intent is required:

Exempt Activity (site applicable statutory/regulatory provisions)

☐ 6. The area and/or work described in the Request is not subject to additional review and approval by:

Name of Municipality

Pursuant to a municipal wetlands' ordinance or bylaw.

Name | Ordinance or Bylaw Citation

C. Authorization

This Determination is issued to the applicant and delivered as follows:

☒ By hand delivery on 3/18/2026
Date

☐ By certified mail, return receipt request on
Date

Certified Mail Number

A copy of this Determination has been sent on the same date, considered the date of issuance, **to** the appropriate DEP Regional Office and the property owner (if not the applicant) in the manner as follows:

DEP

☒ By eDEP DOA Submittal Platform (Attach this form and supporting documents)

☐ By USPS mail
Date

☐ By hand delivery
Date

Property Owner (if not applicant)

☐ By mail
Date

☐ By hand delivery
Date

Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 2 – Determination of Applicability

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

Ashfield
Municipality

C. Authorization (cont.)

This Determination is valid for **three years** from the date of issuance (except Determinations for Vegetation Management Plans which are valid for the duration of the Plan). This Determination does not relieve the applicant from complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.

This Determination must be signed by a majority of the Conservation Commission. As noted above, a copy must be sent to the appropriate DEP Regional Office (see https://www.mass.gov/service-details/massdep-regional-offices-by-community) and the property owner (if different from the applicant) on the same date that the Applicant is issued this Determination.

Ashfield Conservation Commission
Issuing Authority

Signatures:

Signature	Printed Name
Brian Ellard Jr	Brian F. Clark
Seth T. Cranston	Seth T. Cranston
Alexandru Marcea	Alexandru Marcea

D. Appeals

The applicant, owner, any person aggrieved by this Determination, any owner of land abutting the land upon which the proposed work is to be done, 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 Department of Environmental Protection Regional Office (see https://www.mass.gov/service-details/massdep-regional-offices-by-community) to issue a Superseding Determination of Applicability. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and Fee Transmittal Form (see 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 Determination. 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. The request shall state clearly and concisely the objections to the Determination which is being appealed. To the extent that the Determination is based on a municipal ordinance or bylaw and not on the Massachusetts Wetlands Protection Act or regulations, the Department of Environmental Protection has no appellate jurisdiction.

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:

Provided by DEP

A. Request Information

1. Location of Project

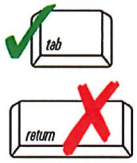
a. Street Address

b. City/Town, Zip

c. Check number

d. Fee amount

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



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)):

Name

Mailing Address

City/Town

State

Zip Code

Phone Number

Fax Number (if applicable)

4. DEP File Number:

B. Instructions

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

☐ Superseding Order of Conditions – Fee: $120 (single family house projects) or $245 (all other projects)

☐ Superseding Determination of Applicability – Fee: $120

☐ Superseding Order of Resource Area Delineation – Fee: $120

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

Department of Environmental Protection
Box 4062
Boston, MA 02211

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:

Provided by DEP

B. Instructions (cont.)

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.

Conditions for Negative 2 Determination

1. The Contractor shall set up appropriate erosion controls and a debris containment system prior to the start of work as per the Repair Plans so that no construction debris enters the perennial stream.
2. Appropriate spill containment and mitigation supplies shall be stocked on-site. A full list of spill containment procedures for material used to clean surfaces and strip paint shall be submitted to the Conservation Commission prior to work.

Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 2 – Determination of Applicability

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

Ashfield
Municipality

A. General Information

Important:
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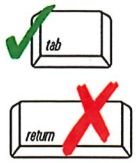


From:

Ashfield
Conservation Commission

To: Applicant

Town of Ashfield
Name
PO Box 560
Mailing Address
Ashfield | MA | 01330
City/Town | State | Zip Code
413-628-4441 Ext. 7
Phone Number
TownAdmin@ashfield.org
Email Address

Property Owner (if different from applicant):

Name
Mailing Address
City/Town | State | Zip Code
Phone Number
Email Address (if known)

1. Project Location:

Near 334 Creamery Road
Street Address
Ashfield
City/Town
42.51116
Latitude (Decimal Degrees Format with 5 digits after decimal e.g. XX.XXXXX)
-72.78986
Longitude (Decimal Degrees Format with 5 digits after decimal e.g. -XX.XXXXX)
None
Assessors Map/Plat Number
Town Right-of-Way
Parcel/Lot Number

How to find Latitude and Longitude

and how to convert to decimal degrees

2. Date Request Filed:

2/11/2026

B. Determination

Pursuant to the authority of M.G.L. c. 131, § 40, the Conservation Commission considered your Request for Determination of Applicability, with its supporting documentation, and made the following Determination.

Project Description (if applicable):

Preservation work to bridge over Creamery Brook, consisting of repairs to severely deteriorated steel beam ends.

Title and Date (or Revised Date if applicable) of Final Plans and Other Documents:

Bridge Beam End Repair Plans Prepared by GEA | 12/18/2025
Title | Date
Project Shielding Specifications Prepared by GEA | 1/05/2026
Title | Date
Title | Date

Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 2 – Determination of Applicability

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

Ashfield
Municipality

B. Determination (cont.)

The following Determination(s) is/are applicable to the proposed site and/or project relative to the Wetlands Protection Act and regulations:

Positive Determination
Note: No work within the jurisdiction of the Wetlands Protection Act may proceed until a final Order of Conditions (issued following submittal of a Notice of Intent or Abbreviated Notice of Intent) has been received from the issuing authority (i.e., Conservation Commission or the Department of Environmental Protection).

☐ 1. The area described on the referenced plan(s) is an area subject to jurisdiction under the Act. Removing, filling, dredging, or altering of the area requires the filing of a Notice of Intent.

☐ 2a. The boundary delineations of the following resource areas described on the referenced plan(s) are confirmed as accurate. Therefore, the resource area boundaries confirmed in this Determination are binding as to all decisions rendered pursuant to the Wetlands Protection Act and its regulations regarding such boundaries for as long as this Determination is valid.

☐ 2b. The boundaries of Wetlands Resource Area(s) and Buffer Zone(s) listed below are not confirmed by this Determination, regardless of whether such boundaries are contained on the plans attached to this Determination or to the Request for Determination.

☐ 3. The work described on referenced plan(s) and document(s) is within an area subject to jurisdiction under the Act and will remove, fill, dredge, or alter that area. Therefore, said work requires the filing of a Notice of Intent.

☐ 4. The work described on referenced plan(s) and document(s) is within the Buffer Zone and will alter an Area subject to jurisdiction under the Act. Therefore, said work requires the filing of a Notice of Intent

☐ 5. The area and/or work described on referenced plan(s) and document(s) is subject to review and approval by:

Name of Municipality

Pursuant to the following municipal wetland ordinance or bylaw:

Name | Ordinance or Bylaw Citation

Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 2 – Determination of Applicability

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

Ashfield
Municipality

B. Determination (cont.)

☐ 6. The following area and/or work, if any, is subject to a municipal ordinance or bylaw but not subject to the Massachusetts Wetlands Protection Act:

☐ 7. If a Notice of Intent is filed for the work in the Riverfront Area described on referenced plan(s) and document(s), which includes all or part of the work described in the Request, the applicant must consider the following alternatives. (Refer to the wetland regulations at 10.58(4)(c) 2. for more information about the scope of alternatives requirements):

- ☐ Alternatives limited to the lot on which the project is located.
- ☐ Alternatives limited to the lot on which the project is located, the subdivided lots, and any adjacent lots formerly or presently owned by the same owner.
- ☐ Alternatives limited to the original parcel on which the project is located, the subdivided parcels, any adjacent parcels, and any other land which can reasonably be obtained within the municipality.
- ☐ Alternatives extend to any sites which can reasonably be obtained within the appropriate region of the state.

Negative Determination

Note: No further action under the Wetlands Protection Act is required by the applicant. However, if the Department is requested to issue a Superseding Determination of Applicability, work may not proceed on this project unless the Department fails to act on such request within 35 days of the date the request is post-marked for certified mail or hand delivered to the Department. Work may then proceed at the owner's risk only upon notice to the Department and to the Conservation Commission. Requirements for requests for Superseding Determinations are listed at the end of this document.

☐ 1. The area described in the Request is not an area subject to jurisdiction under the Act or the Buffer Zone.

☒ 2. The work described in the Request is within an area subject to jurisdiction under the Act, but will not remove, fill, dredge, or alter that area. Therefore, said work does not require the filing of a Notice of Intent.

☐ 3. The work described in the Request is within the Buffer Zone, as defined in the regulations, but will not alter an Area subject to jurisdiction under the Act. Therefore, said work does not require the filing of a Notice of Intent, subject to the following conditions (if any).

☐ 4. The work described in the Request is not within an Area subject to jurisdiction under the Act (including the Buffer Zone). Therefore, said work does not require the filing of a Notice of Intent, unless and until said work alters an Area subject to jurisdiction under the Act.

Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 2 – Determination of Applicability

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

Ashfield
Municipality

B. Determination (cont.)

☐ 5. The area described in the Request is subject to jurisdiction under the Act. Since the work described therein meets the requirements for the following exemption, as specified in the Act and the regulations, no Notice of Intent is required:

Exempt Activity (site applicable statutory/regulatory provisions)

☐ 6. The area and/or work described in the Request is not subject to additional review and approval by:

Name of Municipality

Pursuant to a municipal wetlands' ordinance or bylaw.

Name

Ordinance or Bylaw Citation

C. Authorization

This Determination is issued to the applicant and delivered as follows:

☒ By hand delivery on 3/18/2026
Date

☐ By certified mail, return receipt request on
Date

Certified Mail Number

A copy of this Determination has been sent on the same date, considered the date of issuance, **to** the appropriate DEP Regional Office and the property owner (if not the applicant) in the manner as follows:

DEP

☒ By eDEP DOA Submittal Platform (Attach this form and supporting documents)

☐ By USPS mail
Date

☐ By hand delivery
Date

Property Owner (if not applicant)

☐ By mail
Date

☐ By hand delivery
Date

Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 2 – Determination of Applicability

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

Ashfield
Municipality

C. Authorization (cont.)

This Determination is valid for **three years** from the date of issuance (except Determinations for Vegetation Management Plans which are valid for the duration of the Plan). This Determination does not relieve the applicant from complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.

This Determination must be signed by a majority of the Conservation Commission. As noted above, a copy must be sent to the appropriate DEP Regional Office (see https://www.mass.gov/service-details/massdep-regional-offices-by-community) and the property owner (if different from the applicant) on the same date that the Applicant is issued this Determination.

Ashfield Conservation Commission
Issuing Authority

Signatures:

Signature	Printed Name
Brian E. Clark	BRIAN E. CLARK
Seth T. Cranston	Seth T. Cranston
Alexandru Oarcea	ALEXANDRU OARCEA

D. Appeals

The applicant, owner, any person aggrieved by this Determination, any owner of land abutting the land upon which the proposed work is to be done, 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 Department of Environmental Protection Regional Office (see https://www.mass.gov/service-details/massdep-regional-offices-by-community) to issue a Superseding Determination of Applicability. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and Fee Transmittal Form (see 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 Determination. 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. The request shall state clearly and concisely the objections to the Determination which is being appealed. To the extent that the Determination is based on a municipal ordinance or bylaw and not on the Massachusetts Wetlands Protection Act or regulations, the Department of Environmental Protection has no appellate jurisdiction.

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:

Provided by DEP

A. Request Information

1. Location of Project

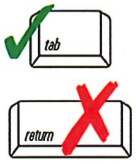
a. Street Address

b. City/Town, Zip

c. Check number

d. Fee amount

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



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)):

Name

Mailing Address

City/Town

State

Zip Code

Phone Number

Fax Number (if applicable)

4. DEP File Number:

B. Instructions

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

☐ Superseding Order of Conditions – Fee: $120 (single family house projects) or $245 (all other projects)

☐ Superseding Determination of Applicability – Fee: $120

☐ Superseding Order of Resource Area Delineation – Fee: $120

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

Department of Environmental Protection
Box 4062
Boston, MA 02211

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:

Provided by DEP

B. Instructions (cont.)

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.

Conditions for Negative 2 Determination

1. The Contractor shall set up appropriate erosion controls and a debris containment system prior to the start of work as per the Repair Plans so that no construction debris enters the perennial stream.
2. Appropriate spill containment and mitigation supplies shall be stocked on-site. A full list of spill containment procedures for material used to clean surfaces and strip paint shall be submitted to the Conservation Commission prior to work.

DOCUMENT A00875

POLICY DIRECTIVE P-22-001
AND
POLICY DIRECTIVE P-22-002

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massDOT Massachusetts Department of Transportation Highway Division

Number: P-22-001
Date: 9/23/22

POLICY DIRECTIVE

Jonathan Gulliver (signature on original)
HIGHWAY ADMINISTRATOR

Off-Site Stockpiling of Soil from MassDOT Construction Projects

Purpose

The purpose of this Policy Directive is to formally establish a policy and procedures for managing and stockpiling soil generated and transported from MassDOT construction projects. This Policy Directive does not supersede any Federal, State, or Local regulations.

Date of Effect

This Policy Directive is effective immediately for all projects, including active construction projects.

For active construction projects and for other projects advertised prior to October 15, 2022, changes to the contract documents needed to implement the requirements of this Policy Directive will be considered on a case-by-case basis and shall be approved by the District Highway Director, as necessary.

For projects advertised on or after October 15, 2022, MassDOT will include the requirements and implementation procedures of this Policy Directive in the construction contract documents.

Policy Requirements

This policy is intended to prevent the off-site relocation of excavated soil generated from MassDOT projects to areas near residential receptors and to control potential fugitive dusts and/or contaminants. To that end, excavated soil may not be moved from the project site without knowledge of the content of the material. Knowledge may include visual field observations for presence of staining, odor, and/or debris, screening with a photoionization detector (PID), laboratory analysis, and/or site history. Pavement millings and other non-soil materials are not subject to the requirements of this Policy Directive.

Moving soil from a MassDOT project site to a temporary off-site storage location must be approved in writing by the District Highway Director.

The Contractor must select a storage location that is at least 500 feet away from residential receptors, as defined herein to include, but not be limited to, residential dwellings, residentially

zoned property, schools, daycare facilities, playgrounds, parks, recreational areas, hospitals, elderly housing and convalescent facilities.

Temporary off-site storage of excavated soil from a MassDOT project is only permissible at a location approved and permitted by MassDOT. The temporary storage location should be located within the same municipality where the soil was excavated, where possible. Stockpiled soil must be securely covered, and appropriate measures must be taken to minimize fugitive dust and erosion.

Signs indicating the source of the soil, the date the soil was generated, and contact information must be erected and maintained until the stockpiled soils are transported to a disposal facility or reused on the project site.

Implementation Procedures

To ensure that off-site storage of excavated soils is managed properly on MassDOT projects, this policy requires the following:

1. **Off-Site Stockpile Storage Locations**
    a. The Contractor shall provide proposed off-site storage locations to the Engineer for approval at least 30 days prior to transporting soil off site. Off-site storage locations should be in the same municipality as the work site.
    b. The Contractor shall keep excavated soil on site until adequately characterized to the satisfaction of the Engineer.
    c. The Contractor shall provide notification of the approved off-site storage location to the local Board of Health and the Town Manager's/Mayor's Office at least 7-days prior to transporting soil off site.
    d. The Contractor shall provide the Engineer with at least 3-days' notice prior to transporting soil off site.
    e. For off-site storage locations on MassDOT property, the Contractor is required to obtain an Access Permit through the District Permits Office prior to storage of soil or other materials. MassDOT will issue these permits at no cost to the Contractor. Information to be submitted by the Contractor as part of the permit application shall include:
        i. A description of material to be stored off-site, including available analytical data;
        ii. A figure of the location with distances to residences and residential receptors; and
        iii. Anticipated duration of temporary storage.
    f. Stockpile locations should not be within 500 feet of residential receptors (e.g., residential dwellings, residentially zoned property, schools, daycare facilities, playgrounds, parks, recreational areas, hospitals, elderly housing and convalescent facilities).
        i. If the stockpile location must be within 500 feet of residential receptors, then soil must be less than RCS-1 (per 310 CMR 40.1600) and free of potentially hazardous or regulated items.

g. For off-site storage locations on non-MassDOT property, the Contractor must notify the property owner(s) at least 7 days prior to transporting material.
h. Exceptions to these rules will be reviewed by MassDOT and may be approved by the District Highway Director on a case-by-case basis.

2. Off-Site Stockpile Management

a. The Contractor shall keep soil stockpiles on impermeable surfaces (e.g., asphalt or concrete) or on 10-mil polyethylene sheeting.
b. The Contractor shall cover soil stockpiles with 10-mil polyethylene sheeting and surround with a berm made of hay bales, straw wattles, or similar.
    i. Piles that are actively being worked on must be covered and re-secured at the end of the work shift.
c. The Contractor shall label stockpiles with signs, including:
    i. Location of origin (including any Release Tracking Numbers)
    ii. Stockpile ID number (including MassDOT District office-assigned tracking ID, if different)
    iii. Date of initial accumulation
    iv. Applicable telephone numbers for the Contractor and MassDOT.
d. The Contractor shall mitigate fugitive dust at storage locations under the direction of an appropriately trained/certified environmental professional.
e. The Contractor shall remedy noncompliance with this policy within 48 hours.
f. The Contractor shall remedy noncompliance with this policy on the SAME DAY for potentially hazardous material, as determined by the Engineer.
g. The Contractor shall handle excavated soil according to federal, state, and local regulations.
h. The Contractor shall use appropriate shipping documents for all movements of excavated soil on public roadways (e.g., Bill of Lading, Material Shipping Record, Manifest, Asbestos Waste Shipment Record, etc.).

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massDOT Massachusetts Department of Transportation Highway Division

Number: P-22-002
Date: 9/23/22

POLICY DIRECTIVE

Jonathan Gulliver (signature on original)
HIGHWAY ADMINISTRATOR

Use of MassDOT Property for Staging and other Construction-Related Operations

Purpose

This Policy Directive is intended to address the use of MassDOT property by MassDOT Contractors for construction staging and other construction-related operations that are not specifically defined in the construction contract. Such use of MassDOT property will only be allowed if permitted by the District Office in accordance with 700 CMR 13.00, Approval of Access to MassDOT Highways and Other Property. This includes the use of MassDOT property for staging, laydown, and storage of equipment and materials, including soil excavated from a project site.

This Policy Directive requires the Contractor/applicant to obtain a Non-Vehicular Access Permit from MassDOT to use MassDOT property for these purposes.

This Policy Directive is effective immediately and applies to all MassDOT construction projects.

General Permit Considerations and Conditions

In addition to other normal MassDOT Access Permit procedures, MassDOT shall consider the following during the application, review, implementation and monitoring processes of Access Permits required by this Policy Directive:

- Storage and placement of the Contractor's equipment and materials should not be allowed within the clear zone of the roadway.
- Stockpiled soils should not be located within 500 feet of residential receptors, as defined herein to include, but not be limited to, residential dwellings, residentially zoned property, schools, daycare facilities, playgrounds, parks, recreational areas, hospitals, elderly housing and convalescent facilities.
- The Contractor/applicant shall identify the access/egress locations of the proposed storage areas. MassDOT will only approve locations determined to be safe for roadway users, construction workers and the general public.
- The Contractor may be required to submit a Traffic Management Plan and/or Lighting Plan for MassDOT review and approval as part of the permit application, depending on the proposed use of the area.

- The Contractor shall submit the permit application through MassDOT's online State Highway Access Permit System (SHAPS).
- MassDOT will waive the permit application fee for any application received from a MassDOT Contractor for any permit required by this Policy Directive and will waive any subsequent amendment and extension fees that may otherwise be required.
- MassDOT will review the permit application in accordance with applicable standard procedures and will apply standard permit terms and conditions, as necessary.
- The Resident Engineer will verify that the permit is approved before allowing the Contractor to use the affected area for the requested purpose.
- Areas permitted are for use by the approved applicant only and are not to be shared with or used by other vendors. Subcontractors specifically engaged with the applicant working on the specific MassDOT project will be allowed to use the area in accordance with the terms of the permit.
- Permits are issued on an annual basis and will require the Contractor to file for an extension each year to continue use.

Exemptions from Permit Requirements

Equipment and materials being used for active construction operations and located within the work zone of the construction contract are exempt from this permit requirement, provided they do not interfere with the safety or operation of the roadway or the work zone. Examples of these types of exempt uses are:

- Equipment and materials parked or stored within a protected (barriered) work zone.
- Materials placed in the work zone prior to same-day installation or use.
- Soils excavated temporarily and scheduled to be replaced, such as for trenching operations or for installation of drainage structures.

DOCUMENT B00420

PROPOSAL

ASHFIELD-CHARLEMONT-CONWAY-HAWLEY

For: **Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 1)**

COMMONWEALTH OF MASSACHUSETTS

LOCATION

The work referred to herein is in the Towns of ASHFIELD, CHARLEMONT, CONWAY, and HAWLEY in Franklin County, in the Commonwealth of Massachusetts, and is shown by the locus map (Document 00331) in the Proposal Pamphlet, the work locations extend as follows:

Ashfield

Bridge # A-13-014 (0FN)	**Apple Valley Road over Upper Branch Clesson Brook**
Bridge # A-13-020 (0FM)	**Apple Valley Road over Upper Branch Clesson Brook**
Bridge # A-13-026 (5CT)	**Creamery Road over Creamery Brook**

Charlemont

Bridge # C-05-035 (0G0)	**Burnt Hill Road over Wilder Brook**

Conway

Bridge # C-20-005 (0F2)	**Poland Road over South River**

Hawley

Bridge # H-13-004 (0F8)	**W Hawley Road / State Route 8A over Chickley River**

The contract prices shall include the furnishing of all materials (except as otherwise herein specified), the performing of all the labor requisite or proper, the providing of all necessary machinery, tools, apparatus and other means of construction, the doing of all the abovementioned work in the manner set forth, described and shown in the specifications and on the drawings for the work, and in the form of contract, and the completion thereof within **730 CALENDAR DAYS** upon receipt of a Notice to Proceed, except that if the completion date falls between December 1 and March 15 then the same number of days beyond December 1st will be extended after March 15th.

The Work of this project is described by the following Items and quantities.

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massDOT Massachusetts Department of Transportation Highway Division

CMS Contract Management System

Project # 616282	Contract # 135581			
Location : ASHFIELD - CHARLEMONT - CONWAY - HAWLEY				
Description : Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 1)				
ITEM #	**QUANTITY**	**ITEM WITH UNIT BID PRICE WRITTEN IN WORDS**	**UNIT PRICE**	**AMOUNT**
106.88	11	JACKING AND SHORING AT _____ EACH		
107.855	15	PRESSURE INJECTION OF CRACKS AT _____ PER FOOT		
107.97	8,100	STRUCTURAL STEEL REPAIRS AT _____ PER POUND		
127.1	5	REINFORCED CONCRETE EXCAVATION AT _____ PER CUBIC YARD		
127.12	5	REINFORCED CONCRETE SUBSTRUCTURE EXCAVATION AT _____ PER CUBIC YARD		
127.13	5	REINFORCED CONCRETE COPING EXCAVATOIN AT _____ PER CUBIC YARD		
127.4	10	REINFORCED CONCRETE DECK EXCAVATION (FULL DEPTH) AT _____ PER SQUARE YARD		
415.4	300	BRIDGE PAVEMENT MILLING AT _____ PER SQUARE YARD		
450.601	30	SUPERPAVE BRIDGE SURFACE COURSE - 9.5 POLYMER (SSC-B - 9.5 - P) AT _____ PER TON		

Project # 616282	Contract # 135581			
Location : ASHFIELD - CHARLEMONT - CONWAY - HAWLEY				
Description : Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 1)				
ITEM #	**QUANTITY**	**ITEM WITH UNIT BID PRICE WRITTEN IN WORDS**	**UNIT PRICE**	**AMOUNT**
452.	30	ASPHALT EMULSION FOR TACK COAT AT _____ PER GALLON		
482.31	80	SAWING AND SEALING JOINTS IN ASPHALT PAVEMENT AT BRIDGES AT _____ PER FOOT		
628.314	10	TEMPORARY IMPACT ATTENUATOR, REDIRECTIVE, TL-2 AT _____ EACH		
628.4	10	TEMPORARY IMPACT ATTENUATOR, REMOVED AND RESET AT _____ EACH		
722.3	1	SCHEDULE OF OPERATIONS (TYPE C) - FIXED PRICE $9500 AT Nine Thousand Five Hundred Dollars LUMP SUM	$9,500.00	$9,500.00
740.	24	ENGINEER'S FIELD OFFICE AND EQUIPMENT (TYPE A) AT _____ PER MONTH		
748.	1	MOBILIZATION AT _____ LUMP SUM		
852.	1,400	SAFETY SIGNING FOR TRAFFIC MANAGEMENT AT _____ PER SQUARE FOOT		
853.1	15	PORTABLE BREAKAWAY BARRICADE TYPE III AT _____ EACH		

Project # 616282	Contract # 135581			
Location : ASHFIELD - CHARLEMONT - CONWAY - HAWLEY				
Description : Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 1)				
ITEM #	**QUANTITY**	**ITEM WITH UNIT BID PRICE WRITTEN IN WORDS**	**UNIT PRICE**	**AMOUNT**
853.2	350	TEMPORARY BARRIER (TL-2) AT _____ PER FOOT		
853.21	350	TEMPORARY BARRIER REMOVED AND RESET AT _____ PER FOOT		
854.016	200	TEMPORARY PAVING MARKINGS - 6 INCH (PAINTED) AT _____ PER FOOT		
854.1	100	PAVEMENT MARKING REMOVAL AT _____ PER SQUARE FOOT		
856.12	300	PORTABLE CHANGEABLE MESSAGE SIGN AT _____ PER DAY		
859.	2,000	REFLECTORIZED DRUM AT _____ PER DAY		
859.1	125	REFLECTORIZED DRUMS WITH SEQUENTIAL FLASHING WARNING LIGHTS AT _____ PER DAY		
902.	1	ULTRA-HIGH PERFORMANCE CONCRETE AT _____ PER CUBIC YARD		
905.001	15	OVERHEAD REPAIR MORTAR FOR PATCHING AT _____ PER SQUARE FOOT		

Project # 616282	Contract # 135581			
Location : ASHFIELD - CHARLEMONT - CONWAY - HAWLEY				
Description : Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 1)				
ITEM #	**QUANTITY**	**ITEM WITH UNIT BID PRICE WRITTEN IN WORDS**	**UNIT PRICE**	**AMOUNT**
905.2	5	5000 PSI, 3/8 INCH, 710 HP CEMENT CONCRETE AT _____ PER CUBIC YARD		
905.21	10	5000 PSI, 3/8 INCH, 710 HP CEMENT CONCRETE FOR BEAM END REPAIRS AT _____ PER CUBIC YARD		
909.5	5	RAPID HARDENING CEMENTITIOUS PRODUCTS FOR CONCRETE REPAIRS AT _____ PER CUBIC YARD		
910.1	1,800	STEEL REINFORCEMENT FOR STRUCTURES - EPOXY COATED AT _____ PER POUND		
910.5	275	STEEL REINFORCEMENT FOR BEAM END REPAIRS AT _____ PER POUND		
912.	60	DRILLING AND GROUTING DOWELS AT _____ EACH		
960.2	10	DRILL WEB HOLE AND INSTALL THREADED ROD AT _____ EACH		
960.91	2	BEARING ADJUSTMENT AT _____ EACH		
960.92	5	BEAM END ANCHORAGE REPAIR AT _____ EACH		

Project # 616282	Contract # 135581			
Location : ASHFIELD - CHARLEMONT - CONWAY - HAWLEY				
Description : Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 1)				
ITEM #	**QUANTITY**	**ITEM WITH UNIT BID PRICE WRITTEN IN WORDS**	**UNIT PRICE**	**AMOUNT**
961.202	1	CLEAN (FULL REMOVAL) AND PAINT STEEL BRIDGE NO. H-13-004 AT _____ LUMP SUM		
961.301	400	CLEAN (FULL REMOVAL) AND PAINT STEEL BEAM ENDS C-05-035 AT _____ PER SQUARE FOOT		
965.	1,400	MEMBRANE WATERPROOFING FOR BRIDGE DECKS AT _____ PER SQUARE FOOT		
968.1	2	SCUPPER AND DOWNSPOUT AT _____ EACH		
974.3	125	METAL BRIDGE RAILING REMOVED AT _____ PER FOOT		
975.8	125	THRIE BEAM BRIDGE RAIL WITH HANDRAIL AT _____ PER FOOT		
994.1	550	TEMPORARY PROTECTIVE SHIELDING AT _____ PER SQUARE FOOT		
994.12	45	TEMPORARY PROTECTIVE SHIELDING REMOVED AND RESET AT _____ PER SQUARE FOOT		
Total Qty:	18,313			

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DOCUMENT B00842

SCHEDULE OF PARTICIPATION
BY MINORITY OR WOMEN BUSINESS ENTERPRISES (M/WBE)

MASSDOT PROJECT NUMBER: 616282

PROJECT LOCATION: ASHFIELD-CHARLEMONT-CONWAY-HAWLEY

DATE OF BID OPENING: _____

NAME OF PRIME BIDDER: _____

Name Address and Phone Number of M/WBE	Name of Activity	(a) M/WBE Contractor Activity Amount	(b) M/WBE Other Business Amount	(c) Total amount eligible for credit under rules in Section VIII of the Special Provisions
Total Bid Amount	TOTALS:	$		$
$	M/WBE Percentage of Total bid:	%		%

Column (a) must be at least one-half of the M/WBE percentage goal.

SIGNATURE: _____ Date: _____ Tel No: _____

NAME AND TITLE (PRINT):_____

BIDDERS ARE CAUTIONED TO REVIEW DOCUMENT 00718 -- SPECIAL PROVISION FOR PARTICIPATION BY MINORITY OR WOMEN BUSINESS ENTERPRISES AND SERVICE DISABLED VETERAN OWNED BUSINESS ENTERPRISES.

*** END OF DOCUMENT ***

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DOCUMENT B00843

MINORITY OR WOMEN'S BUSINESS ENTERPRISE PARTICIPATION LETTER OF INTENT
PAGE 1 OF 2

MASSDOT PROJECT NUMBER: 616282

PROJECT LOCATION: ASHFIELD-CHARLEMONT-CONWAY-HAWLEY

DATE OF BID OPENING: _____

FROM _____
(Minority or Women's Business Enterprise Company)

TO: _____
(Name of Prime Contractor)

1. My company is currently certified as an MBE or WBE by the Massachusetts Supplier Diversity Office, formerly known as the State Office of Minority and Women Business Assistance (SOMWBA). There have been no changes affecting the ownership, control or independence of my company since my last certification review.

2. If any such change occurs prior to my company's completion of this proposed work, I will give written notification to your firm and to the Massachusetts Department of Transportation (MassDOT).

3. (For contractor activity only.) My firm will provide to you, upon request, for the purpose of obtaining subcontractor approval from MassDOT; (1) a resume stating the qualifications and experience of the superintendent or foreperson who will supervise on site-work; (2) a list of equipment owned or leased by my firm for use on the project; (3) a list of all projects (public or private) which my firm is currently performing, is committed to perform, or intends to make a commitment to perform. I shall include, for each project, the names and telephone number of a contact person for the contracting organization, the dollar value of the work, a description of the work, and my firm's work schedule for the Project.

4. If you are awarded the Contract, my company intends to enter into an agreement with your firm to perform the items of work or other activity described on the following sheet for the prices indicated.

5. My firm has the ability to manage, supervise and perform the activity described on the following page.

_____ _____
M/WBE Authorized Signature Date

MINORITY OR WOMEN'S BUSINESS ENTERPRISE PARTICIPATION LETTER OF INTENT
PAGE 2 OF 2

MASSDOT PROJECT NUMBER: 616282

PROJECT LOCATION: ASHFIELD-CHARLEMONT-CONWAY-HAWLEY

DATE OF BID OPENING: _____

NAME OF PRIME BIDDER: _____

Item number if applicable	Description of Activity with notations such as Installation Only, Material Only, or Complete	Quantity	Unit Price	Amount
		TOTAL AMOUNT:		

M/WBE COMPANY NAME: _____

M/WBE AUTHORIZED SIGNATURE: _____

NAME AND TITLE (PRINT): _____

TELEPHONE NUMBER: _____ FAX NUMBER: _____

Rev'd 9/20/19

*** END OF DOCUMENT ***

DOCUMENT B00846

M/WBE OR SDVOBE JOINT CHECK ARRANGEMENT APPROVAL FORM

(to be submitted by Prime Contractor)

Contract No: 135581 **Project No.** 616282

Location: ASHFIELD-CHARLEMONT-CONWAY-HAWLEY **Bid Opening Date:** _____

Project Description: Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 1)

We have received the attached request for the use of a joint check arrangement from _____ _____ , a M/WBE or SDVOBE on the above- referenced Contract and _____ _____, a Material Supplier/Vendor for the subject Contract. The M/WBE or SDVOBE has complied with the requirements of Special Provision Document 00718. In particular, the M/WBE or SDVOBE has:

- a written agreement with the material supplier/vendor;
- applied for credit with the subject material supplier and has supplied the vendor's response;
- shown that it will place all orders to the subject material supplier/vendor;
- made and retains all decision-making responsibilities concerning the materials; and
- provided a Joint Check Agreement that is acceptable to MassDOT;

As the Contractor for the Project, we agree to issue joint checks (made payable to the Material Supplier/Vendor and the M/WBE or SDVOBE) for payment of sums due pursuant to invoices from the Supplier/Vendor and M/WBE or SDVOBE.

Contractor:

_____ _____
Company Name Signature
Duly Authorized

_____
Printed Name

_____ _____
Date Title

SubContractor:

_____ _____
Company Name Signature –
Duly Authorized

_____
Printed Name

_____ _____
Date Title

*** END OF DOCUMENT ***

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DOCUMENT B00847

JOINT VENTURE AFFIDAVIT

(All Firms)

- All Information Requested By This Schedule Must Be Answered. Additional Sheets May Be Attached.
- If, there is any change in the information submitted, the Joint Venture parties must inform MassDOT Pre-Qualifications Office (and, if one of the companies is a M/WBE or SDVOBE, the Director of Contract Compliance, Office of Civil Rights) *prior* to such change, in writing, either directly or through the Prime Contractor if the Joint Venture is a subcontractor.
- If the Joint Venture Entity will be the bidder on a prime Contract, it must bid and submit all required documents (insurance, worker's compensation, bonds, etc.) in the name of the Joint Venture Entity.

I. Name of Joint Venture: _____

Type of Entity if applicable (Corp., LLC):_____Filing State _____

Address of joint venture: _____

_____

Phone No(s) for JV Entity: _____E-mail:_____

Contact Person(s) _____

Tax ID/EIN of Joint Venture: _____Vendor Code:_____

II. Identify each firm or party to the Joint Venture:

Name of Firm: _____

Address: _____

Phone : _____E-mail:_____

Contact person(s) _____

Name of Firm: _____

Address: _____

Phone: _____E-mail:_____

Contact Person(s)_____

III. Describe the role(s) of the each party to the Joint Venture:

_____

_____

IV. Attach a copy of the Joint Venture Agreement. The proposed Joint Venture Agreement should include specific details including, but not limited to: (1) the contributions of capital and equipment; (2) work items to be performed by each company's forces, (3) work items to be performed under the supervision of any M/WBE or SDVOBE Venturer; (4) the commitment of management, supervisory and operative personnel employed by the M/WBE or SDVOBE to be dedicated to the performance of the Project; and (5) warranty, guaranty, and indemnification clauses.

V. Attach any applicable Corporate or LLC Votes, Authorizations, etc.

VI. Ownership of the Joint Venture:

A. What is the percentage(s) of each company's ownership in the Joint Venture?

ownership percentage(s): _____

ownership percentage(s): _____

B. Specify percentages for each of the following (provide narrative descriptions and other detail as applicable):

1. Sharing of profit and loss: _____
2. Capital contributions:

(a) Dollar amounts of initial contribution: _____

(b) Dollar amounts of anticipated on-going contributions: _____

(c) Contributions of equipment (specify types, quality and quantities of equipment to be provided by each firm): _____

_____

4. Other applicable ownership interests, including ownership options or other agreements, which restrict or limit ownership and/or control:

_____

_____

5. Provide copies of all other written agreements between firms concerning bidding and operation of this Project or projects or contracts.

6. Identify all current contracts and contracts completed during the past two (2) years by either of the Joint Venture partners to this Joint Venture:

_____

_____

VII. Control of and Participation in the Joint Venture.

Identify by name and firm those individuals who are, or will be, responsible for and have the authority to engage in the following management functions and policy decisions. (Indicate any limitations to their authority such as dollar limits and co-signatory requirements.):

A. Joint Venture check signing:

_____

_____

B. Authority to enter Contracts on behalf of the Joint Venture:

_____

_____

C. Signing, co-signing and/or collateralizing loans:

_____

_____

D. Acquisition of lines of credit:

E. Acquisition and indemnification of payment and performance bonds:

F. Negotiating and signing labor agreements:

G. Management of contract performance. *(Identify by name and firm only)*:

1. Supervision of field operations:
2. Major purchases:
3. Estimating:
4. Engineering:

VIII. Financial Controls of Joint Venture:

A. Which firm and/or individual will be responsible for keeping the books of account?

B. Identify the "Managing Partner," if any, and describe the means and measure of their compensation:

C. What authority does each firm have to commit or obligate the other to insurance and bonding companies, financing institutions, suppliers, subcontractors, and/or other parties participating in the performance of this Contract or the work of this Project?

IX. Personnel of Joint Venture: State the approximate number of personnel (by trade) needed to perform the Joint Venture's work under this Contract. Indicate whether they will be employees of the majority firm, M/WBE or SDVOBE firm, or the Joint Venture.

	Firm 1 (number)	Firm 2 (number)	Joint Venture (number)
Trade			
Professional			
Administrative/Clerical			
Unskilled Labor			

Will any personnel proposed for this Project be employees of the Joint Venture?: _____

If so, who: _____

A. Are any proposed Joint Venture employees currently employed by either firm?

Employed by Firm 1: _____ Employed by firm 2 _____

B. Identify by name and firm the individual who will be responsible for Joint Venture hiring: ____

_____

X. Additional Information. Please state any material facts and additional information pertinent to the control and structure of this Joint Venture.

_____

_____

XI. AFFIDAVIT OF JOINT VENTURE PARTIES. The undersigned affirm that the foregoing statements and attached documents are correct and include all material information necessary to identify and explain the terms and operations of our Joint Venture and the intended participation of each firm in the undertaking. Further, the undersigned covenant and agree to provide to MassDOT current, complete and accurate information regarding actual Joint Venture work, payments, and any proposed changes to any provisions of the Joint Venture, or the nature, character of each party to the Joint Venture. We understand that any material misrepresentation will be grounds for terminating any Contract awarded and for initiating action under Federal or State laws concerning false statements.

Firm 1	Firm 2
Signature Duly Authorized	Signature Duly Authorized
Printed Name and Title	Printed Name and Title
Date	Date

*** END OF DOCUMENT ***