

City of Gloucester

Office of the Purchasing Agent

City Hall, 9 Dale Avenue

Gloucester, Massachusetts 01930

Telephone 978 325 5110

www.gloucester-ma.gov



Invitation for Bid #27052

Cressy Beach Revetment – Storm Damage Repair Project

Issued: Wednesday, August 19, 2026

Opening: Wednesday, September 16, 2026 @ 11:00 am

Addenda will be posted on bidnet direct at <https://www.bidnetdirect.com/massachusetts/gloucesterma>.

Hard copies of addenda will not be mailed, emailed or faxed.

It shall be the sole responsibility of the proposer to ascertain the existence of any and all addenda on bidnet direct.

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Cressy Beach Revetment – Storm Damage Repair Project, Gloucester, MA., prepared by
GZA GeoEnvironmental, Inc., including Sheets 1 through 8 of 8

SECTION 00020

INVITATION FOR BID

CITY OF GLOUCESTER
GLOUCESTER DEPARTMENT OF PUBLIC WORKS
GLOUCESTER, MASSACHUSETTS

IFB #27052 - CRESSY BEACH REVETMENT – STORM DAMAGE REPAIR PROJECT

Section 1. INTRODUCTION

The City of Gloucester hereby solicits sealed bids from responsive and responsible vendors to provide **Cressy Beach Revetment – Storm Damage Repair Project** Services in accordance with the provisions of the Massachusetts General Laws, chapter 149. MA Prevailing Wage Rates shall apply. A bid deposit in the amount of 5% of the total bid price must accompany each bid. The successful bidder will be required to furnish a Performance and Labor and Materials (Payment) Bond in the amount of 100% of the bid price. Notice of this solicitation was advertised in the Central Register, Gloucester Daily Times, Commbuys, and posted at www.gloucester-ma.gov.

The proposed work will involve the repair to approximately 550 linear feet of the existing shoreline revetment, landscaping improvements and restoration, erosion repairs; removal and reconstruction of picnic table concrete pads; and stormwater pipe extensions.

Section 2. STANDARD CONDITIONS

1. The City reserves the right to reject any and all bids or to accept that which is deemed in the best interest of the City of Gloucester, Massachusetts.
2. **Bid Withdrawal:** No bidder may withdraw their bid after the opening and prior to the execution and delivery of the contract or if no award is made at the expiration of sixty (60) days business days after the opening of the bid.
3. The City reserves the right to waive any “**minor informalities**” or allow the vendor to correct them.
4. **Contract Duration:** Work as described in the Scope of Services shall begin on receipt of an executed contract. The completion of the contract shall be May 14, 2027. The successful bidder will be required to execute the City’s standard contract as attached.
5. **Approved Equal:** Whenever a manufacturer’s name or style is used, it shall be construed as indicating the type of equipment, design, general construction and finish. Such use is not intended to be limiting or excluding any manufacturer or vendor. The term “approved equal”, if not inserted is implied. Equipment or supplies offered as “approved equal” that do not meet the City of Gloucester’s specifications contained in the Invitation for Bid, will not be accepted. The City will determine compliance.
6. **Substitutions:** When a bidder wishes to substitute for specified items, complete specifications for the substituted item(s) and any evidence necessary to verify the quality and IFB compliance must be included. The City will determine compliance and acceptability.
7. **Equal Opportunity:** It is understood and agreed that it shall be a material breach of any contract resulting from this bid for the Contractor to engage in any practice which shall violate any provision of Massachusetts General Laws, Chapter 151B, relative to discrimination in hiring, discharging, compensation, or terms, conditions or privileges of employment because of race, color, religious creed, national origin, sex, gender identity, sexual orientation, genetic information, ancestry, and disability.

8. **Right To Know:** Any vendor who receives an order or orders resulting from this invitation agrees to submit a Material Safety Data Sheet (MSDS) for each toxic or hazardous substance or mixture containing such substance, pursuant to M.G.L.c 111f 228, 9 and 10 and the regulations contained in 441 CMR ss21.06 when deliveries are made. The vendor agrees to deliver all containers properly labeled pursuant to M.G.L.c 111f, sec.7 and the regulations contained in 441 CMR S21-05. Failure to submit a MSDS and/or labels on each container will place the vendor in noncompliance with the purchase order and/or the contract. Failure to furnish a MSDS and/or labels on each container may result in Civil or Criminal penalties, including debarment and action to prevent the vendor from selling said substances, or mixtures containing said substances within the Commonwealth.
9. **Tied Bids:** In the event that The City receives tied bids, wherein two or more responsive and responsible vendors provide the same bid price, a coin toss will be conducted.
10. **Incorporation by Reference:** All requirements, specifications, terms and conditions described in this Invitation for Bids ('IFB') as well as any addendums issued shall be incorporated by reference into any contract that may result.

Section 3. BID DOCUMENT INFORMATION AND REQUIREMENTS

1. **Bid Availability:** Bids will be available on Wednesday, August 19, 2026, on bidnet direct. <https://www.bidnetdirect.com/massachusetts/gloucesterma>.
2. **Pre-Bid Meeting:** A pre-bid meeting will be held at Cressy Beach, 24 Hough Avenue, Gloucester, MA, at **10:00 AM on September 2, 2026**.
3. **Bid Opening:** Bids will be opened electronically on **Wednesday, September 16, 2026 at 11:00 am** on bidnet direct. <https://www.bidnetdirect.com/massachusetts/gloucesterma>. If vendors need assistance please contact bidnets vendor support department at 800-835-4603 option 2.
4. **Late Submissions:** The City shall not be responsible for bids arriving late for any reason. Bids received after the submission deadline as recorded by Bidnet will not be accepted. The City shall not be responsible for bids not received due to technical difficulties, internet connectivity issues, user error, or failure of the proposer to allow sufficient time for upload.
5. **Cancellation of Opening:** If The City Offices are closed by the Mayor due to an emergency or winter weather conditions, scheduled bid openings will be postponed to the first day The City Offices are open to conduct normal business functions. The time and location of the opening will be the same as originally scheduled in the Invitation for Bid.
6. **Requesting Information:** Any prospective bidder requesting a change in or interpretation of existing specifications of terms and conditions must do so at least (5) days, excluding Saturdays, Sundays and Holidays, before the scheduled bid opening date. All questions are to be asked on bidnet direct. When logged in and viewing the notice online click on the "ask a question" button at the top of the page. If vendors need assistance please contact bidnets vendor support department at 800-835-4603 option 2. If necessary to maintain a fair and equal bidding environment, the City will post an addenda on Bidnet Direct. No interpretation of the meaning of the specifications or other pre-bid documents will be made to any bidder orally. All information given to bidders other than by means of the specifications, or by addenda, as described below, is given informally and shall not be used as the basis of a claim against the OWNER.
7. **Right to Withdraw:** A bidder has the right to withdraw his/her bid any time prior to the time fixed for opening. A request to withdraw must be in writing.
8. **Incomplete Bid:** Any bid which is not according to prescribed form, incomplete, not properly signed, or contrary to the instructions and requirements contained in the Invitation for Bid may be rejected by the City of Gloucester. **Conditional bids will not be accepted.**

9. **Tax Exemption:** Purchases of goods and services by the City of Gloucester are exempt from the payment of Federal excise taxes and the Massachusetts sales tax, and any such taxes must not be included in the price computations.
10. **Contract Assignment:** The successful contractor will not be permitted to assign or underlet the contract, nor assign either legal or equitably, any moneys hereunder, or its claim thereto, without the previous written consent of the City of Gloucester.

Section 4. FORMS TO BE COMPLETED & INCLUDED WITH THE BID PACKAGE

1. **Bid Price Form:** All price proposals shall be submitted on the form provided.
2. **Non Collusion Statement:** All bidders are responsible and required by Massachusetts General Law to submit a statement of Non Collusion with their bid. If a form has not been included in the Invitation for Bid package, you may request a copy from the Purchasing Office. The City is required to reject any bid that does not include a completed Statement of Non Collusion.
3. **Tax Attestation Form:** The successful bidder is responsible and required by Massachusetts General Law to submit a statement of Tax Compliance before a contract can be issued. If a form has not been included in the Invitation for Bid package, you may request a copy from the Purchasing Office.
4. **Certification of Non-Debarment and Certification of Labor Harmony and OSHA Training**
5. **Acknowledgment of Addenda:** Each bidder shall acknowledge the receipt of any addenda by signing and including it in their bid submission.
6. **Reference Form:** A list of all similar recent projects, including a brief description of type of service performed. The list must include contact names, and telephone numbers.
7. **Information:** Any other information that the contractor wishes to include that will document their capabilities and qualifications for providing the services sought in this IFB.
8. **Bid Bond:** A 5 % bid deposit in the form of a bid bond, a certified check, or a treasurer's or cashier's check issued by a responsible bank or trust company, payable to City of Gloucester. Company checks will not be accepted.

BID FORM SUMMARY

The undersigned hereby declares to have carefully examined the annexed form of Contract, Specifications, and Drawings therein referred to and also the sites upon which the projected work is to be performed. Also, included in the Bid Form is a table requiring information on the Bidder's qualifications.

- A. The undersigned proposes to furnish all labor and materials required for the “Cressy Beach Revetment – Storm Damage Repair Project” in accordance with the Drawings and Specifications prepared by GZA GeoEnvironmental, Inc., 144 Elm Street, Amesbury, Massachusetts 01913, for the Contract Price specified below, subject to additions and deductions according to the terms of the Specifications.

The undersigned also hereby declares to be the only person interested in this Proposal; that it is made without any connection with any other person making any bid for the same work; that no person acting for, or employed by the Owner is directly or indirectly interested in this Proposal, or in any Contract which may be made under it, or in expected profits to arise therefrom; and it is made without directly or indirectly influencing or attempting to influence any other person or corporation to bid or to refrain from bidding or to influence the amount of the bid of any other person or corporation; and that this Proposal is made in good faith, without collusion or connection with any other person bidding for the same work; and that this Proposal is made with distinct reference and relation to the Bid Documents prepared for this case, and herein mentioned.

- B. Acknowledgment of Addenda: Each bidder shall acknowledge the receipt of any addenda by signing and including it in their bid submission. Addenda issued will be posted on <https://www.bidnetdirect.com/massachusetts/gloucesterma>. It is the bidder's responsibility to locate the addenda on the website.
- C. This bid includes Addenda numbered _____.
- D. The bid prices are presented in the following schedule. The Bidder shall provide Total prices for the project as follows:

BID FORM SUMMARY

The following Base Bid Pricing reflect the respective bid item breakdowns indicated in Tables 1 through 5 following the Bid Summaries.

1. The TOTAL BASE BID PRICE – FEMA IN-KIND (Table 1 Bid Total) is:

_____ Dollars

(\$_____)

(insert words and numbers. In case of conflict between words and numbers, words shall control)

2. The TOTAL BASE BID PRICE – FEMA HAZARD MITIGATION (Table 2 Bid Total) is:

_____ Dollars

(\$_____)

(insert words and numbers. In case of conflict between words and numbers, words shall control)

3. The TOTAL BASE BID PRICE – NON-FEMA SCOPE (Table 3 Bid Total) is:

_____ Dollars

(\$_____)

(insert words and numbers. In case of conflict between words and numbers, words shall control)

4. The TOTAL BASE BID PRICE – FEMA IN-KIND AND FEMA HAZARD MITIGATION (Table 4 Bid Total) is:

_____ Dollars

(\$_____)

(insert words and numbers. In case of conflict between words and numbers, words shall control)

5. The TOTAL BASE BID PRICE – FEMA IN-KIND, FEMA HAZARD MITIGATION, AND NON-FEMA (Table 5 Bid Total) is:

_____ Dollars

(\$_____)

(insert words and numbers. In case of conflict between words and numbers, words shall control)

Company Name: _____
(Name of General Bidder)

By: _____
(Authorized Signature)

TABLE 1: BASE BID FEMA IN-KIND				
ITEM NO.	QUANTITY	ITEM OF WORK WITH UNIT PRICE WRITTEN IN WORDS	UNIT PRICE	TOTAL PRICE
02002-1	1 LS	Mobilization and Demobilization at _____ _____ Dollars & Cents/Lump Sum		
02200-1	260 CY	Site 2 Sandy Silt Fill at _____ _____ Dollars & Cents/Cubic Yard		
02200-2	290 CY	Site 3 Sandy Silt Fill at _____ _____ Dollars & Cents/Cubic Yard		
02200-4	120 CY	Site 2 Vegetative Support Fill at _____ _____ Dollars & Cents/Cubic Yard		
02200-5	100 CY	Site 3 Vegetative Support Fill at _____ _____ Dollars & Cents/Cubic Yard		
02300-1	150 LF	Site 2 Reset Revetment at _____ _____ Dollars & Cents/Linear Foot		
02300-2	235 LF	Site 3 Reset Revetment at _____ _____ Dollars & Cents/Linear Foot		

TABLE 1: BASE BID FEMA IN-KIND				
ITEM NO.	QUANTITY	ITEM OF WORK WITH UNIT PRICE WRITTEN IN WORDS	UNIT PRICE	TOTAL PRICE
02300-4	373 TON	Site 2 Armor Stone at Dollars & Cents/Ton		
02300-5	528 TON	Site 3 Armor Stone at Dollars & Cents/Ton		
02500-1	1,215 SY	Seed Upland Grass at Dollars & Cents/Square Yard		
TOTAL BASE BID FEMA IN-KIND PRICE IN WORDS:			TOTAL BASE BID FEMA IN-KIND PRICE:	

TABLE 2: BASE BID FEMA HAZARD-MITIGATION				
ITEM NO.	QUANTITY	ITEM OF WORK WITH UNIT PRICE WRITTEN IN WORDS	UNIT PRICE	TOTAL PRICE
02300-6 HM	386 TON	Hazard-Mitigation Armor Stone at _____ _____ Dollars & Cents/Ton		
02300-8 HM	530 TON	Hazard-Mitigation Bedding Stone at _____ _____ Dollars & Cents/Ton		
02300-10 HM	1,000 SY	Hazard-Mitigation Geotextile Filter Fabric at _____ Dollars & Cents/Square Yard		
02500-2 HM	1,285 SY	Hazard-Mitigation Seed Upland Grass at _____ Dollars & Cents/Square Yard		
02500-4 HM	1 LS	Hazard-Mitigation Vegetative Buffer Planting at _____ Dollars & Cents/Lump Sum		
TOTAL BASE BID FEMA HAZARD-MITIGATION PRICE IN WORDS:			TOTAL BASE BID FEMA HAZARD-MITIGATION PRICE:	

TABLE 3: BASE BID NON-FEMA				
ITEM NO.	QUANTITY	ITEM OF WORK WITH UNIT PRICE WRITTEN IN WORDS	UNIT PRICE	TOTAL PRICE
02200-3 NF	100 CY	Non-FEMA Sandy Silt Fill at _____ _____ Dollars & Cents/Cubic Yard		
02200-6 NF	80 CY	Non-FEMA Vegetative Support Fill at _____ _____ Dollars & Cents/Cubic Yard		
02300-3 NF	165 LF	Non-FEMA Reset Revetment at _____ _____ Dollars & Cents/Linear Foot		
02300-7 NF	363 TON	Non-FEMA Armor Stone at _____ _____ Dollars & Cents/Ton		
02300-9 NF	170 TON	Non-FEMA Bedding Stone at _____ _____ Dollars & Cents/Ton		
02300-11 NF	500 SY	Non-FEMA Geotextile Filter Fabric at _____ _____ Dollars & Cents/Square Yard		
02500-3 NF	1,500 SY	Non-FEMA Seed Vegetated Buffer at _____ _____ Dollars & Cents/Square Yard		

TABLE 3: BASE BID NON-FEMA				
ITEM NO.	QUANTITY	ITEM OF WORK WITH UNIT PRICE WRITTEN IN WORDS	UNIT PRICE	TOTAL PRICE
02500-5 NF	6 EA	Non-FEMA Trees at _____ _____ Dollars & Cents/Each		
02500-6 NF	1 LS	Non-FEMA Outfall Extensions at _____ _____ Dollars & Cents/Lump Sum		
02500-7 NF	1 LS	Non-FEMA Concrete Pads for Tables at _____ _____ Dollars & Cents/Lump Sum		
TOTAL BASE BID NON-FEMA PRICE IN WORDS:			TOTAL BASE BID NON-FEMA PRICE:	

TABLE 4: BASE BID TOTAL FEMA IN-KIND AND FEMA HAZARD-MITIGATION	
TOTAL BASE BID TOTAL FEMA IN-KIND AND FEMA HAZARD-MITIGATION PRICE IN WORDS:	TOTAL BASE BID TOTAL FEMA IN-KIND AND FEMA HAZARD- MITIGATION PRICE:

TABLE 5: BASE BID TOTAL FEMA IN-KIND, HAZARD-MITIGATION, AND NON-FEMA	
TOTAL BASE BID TOTAL FEMA IN-KIND, HAZARD-MITIGATION, AND NON-FEMA PRICE IN WORDS:	TOTAL BASE BID TOTAL FEMA IN-KIND, HAZARD-MITIGATION, AND NON-FEMA PRICE:

- E. A contract will be awarded to the responsive and responsible bidder submitting the lowest total bid price. To be the successful bidder a vendor must bid on all items, Bidders may be required to supply additional information.
- F. The undersigned agrees that, if he/she is selected as Contractor, he/she will within 10 calendar days, after presentation thereof by the Owner, execute the Contract in accordance with the terms of this bid and furnish a performance bond and a payment bond for the full amount of the Contract Price, each with a Surety company qualified to do business under the laws of the Commonwealth and satisfactory to the Owner, the premiums for which are to be paid by the Contractor and are included in the Contract Price.
- G. The bidder hereby certifies that in the event he/she is awarded the Contract he/she shall comply with the minority manpower ratio and all specific action steps contained in the State of Massachusetts Equal Employment Opportunity Anti-Discrimination and Affirmative Action Programs.
- H. The undersigned hereby certifies that he/she is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on this work.
- I. The undersigned further certifies under penalties of perjury that this bid is in all respects bona fide, fair, and made without collusion or fraud with any other person. As used in this subsection, the work "person" shall mean any natural person, joint venture, partnership, corporation, or other business or legal entity.
- J. I hereby certify that I have been informed that this project is sales tax exempt. I further certify that the bid prices contained herein do not include any calculations for sales tax.

This bid is submitted by:

(Complete name of firm to be given here)

Signature: _____ Date: _____

Printed Name as Signed Above: _____

Contact Person: _____

Business Address: _____

TELEPHONE: _____ EMPLOYER I. D. # _____

Email Address: _____

BIDDER'S QUALIFICATION

The Bidder is required to state below work he/she has done of a character similar to that of the work included in the proposed contract and to give references that will enable the Owner to judge his/her experience and skills to successfully undertake this project.

Project/Amount	Description	Contact	Completion Date
1.			
2.			
3.			
4.			
5.			

Bid Form “A”

CERTIFICATE OF NON-COLLUSION

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

Bidder:	_____	Address:	_____
Authorized Signature	_____	Title:	_____
Telephone	_____	Email	_____

Bid Form “B”

TAX COMPLIANCE

IF A CORPORATION:

State in which Incorporated	_____
President	_____
Treasurer	_____
Secretary	_____

If a foreign (out of State) corporation - are you registered to do business in Massachusetts? YES ____ NO ____.

If you are selected for this work, you are required under Massachusetts General Law Chapter 38D, to obtain from the Secretary of State, Foreign Corp. Section, State House, Boston, a certificate to the awarding authority prior to award.

IF A PARTNERSHIP (Name All Partners):

<u>Name</u>	<u>Address</u>	<u>City</u>	<u>State/Zip</u>
_____	_____	_____	_____

IF AN INDIVIDUAL:

<u>Name</u>	<u>Address</u>	<u>City</u>	<u>State/Zip</u>
_____	_____	_____	_____

IF AN INDIVIDUAL DOING BUSINESS UNDER A FIRM NAME:

<u>Name of Firm</u>	<u>Business Address</u>	<u>City</u>	<u>State/Zip</u>
_____	_____	_____	_____

<u>Name of Individual</u>	<u>Address</u>	<u>City</u>	<u>State/Zip</u>
_____	_____	_____	_____

ATTESTATION CLAUSE

Pursuant to MGL c 62C sec 49A. I certify under penalties of perjury that I, to my best knowledge and belief, have filed all state tax returns and paid all state taxes required by law.

<u>Social Security No. Or Federal Identification No</u>	<u>Signature or Individual or Corporate Name</u>
_____	_____
	<u>Corporate Officer (If Applicable)</u>

Certification of Non-Debarment

The Bidder hereby certifies, under penalties of perjury, that it is presently not debarred, suspended, or otherwise prohibited from practice by any Federal, State, or local agency and that should any proceeding arise during the term of this contract in which it is debarred, suspended, or otherwise prohibited from practice by any Federal, State, or local agency, the Bidder shall inform the City of Gloucester within three (3) business days of such debarment, suspension, or prohibition from practice.

Signature

Date

Name/Title

Company Name

Certification of Labor Harmony and OSHA Training

The undersigned certifies under penalties of perjury that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed at the work and that all employees to be employed at the worksite and in the services to be provided will have completed an OSHA-approved construction safety and health course lasting at least ten (10) hours.

Signature

Date

Name/Title

Company Name

Bidder Checklist

Check Completion

Bid Price Form, Completed

5% Bid Bond

Addenda Receipt Acknowledged

Reference Form

Non Collusion, completed

Tax Compliance, completed

Non-Debarment and Labor Harmony/OSHA

Note: This form is provided to assist bidders and does not have to be submitted with the bid package.

DRAFT CONTRACT 27052
Cressy Beach Revetment – Storm Damage Repair Project

The City of Gloucester, a municipal corporation, organized and existing under the laws of the Commonwealth and located in the County of Essex in said Commonwealth, hereinafter sometimes called the City and _____ with their principal office located at _____ sometimes referred to as the Contractor.

The date the mayor signs this contract will be the contract execution date.

RECITALS

1. Whereas the City of Gloucester requires Storm-Damage Repair Services.
2. Whereas the City of Gloucester, by its Mayor, having been authorized by the City Council, has the power to purchase such professional service from outside sources; and
3. Whereas the Contractor has made claim and has satisfied the City that it is capable of performing the required professional services; and
4. Whereas in reliance upon the above.

THE CITY AND CONTRACTOR AGREE THAT:

1. Services

The Contractor shall perform all the services contained in the Scope of Work attached hereto and or incorporated herewith.

2. Contractor's Covenants

- A. The Contractor covenants that it is qualified to perform the services required by this contract and now is, and shall at all times while this contract is in effect, be duly permitted by law to perform such services, and all personnel engaged in this contract shall be qualified, licensed if necessary, and so permitted to do the work they perform.
- B. The Contractor agrees to pay all debts for labor and/or services and materials contracted by it, if any, and for the rental of any office space, equipment or machinery hired by it, if any, for and on account of the services be performed hereunder; and the Contractor agrees to assume the defense of and indemnity and hold harmless the City, its officers, agents and employees from and against any and all suits, claims, demands, expenses and liabilities arising from or in any way rendered under this contract. The Contractor shall have no capacity to bind the City in any contract nor to incur liability on the part of the City, and if the Contractor employs or proposes to employ any person or persons during the term of this contract, the employment or proposal shall not obligate the City in any manner to any such employee.
- C. The Contractor covenants with the City that it shall be solely responsible for the conduct, health and safety of its employees during the term of this contract.
- D. The Contractor shall maintain records of all details with respect to the services performed hereunder, for six years after the date of the final payment made by the City under this contract. The Contractor shall permit any duly authorized representative of the City, State or Federal agency which requires access as a precondition to funding, if any, or any of their duly authorized representative, from time to time and during regular business hours, to have access to and inspect papers, and other records of the Contractor pertaining to transactions pursuant to this contract.
- E. The Contractor covenants with the City that it shall, upon the completion of this contract or upon termination, turnover, surrender or deliver to the City originals or executed duplicates of all documents, bids, estimates, contracts, leases, deeds, memoranda, correspondence, requests for proposals, pleadings, answers, opinions or any other finished work product contemplated within the Contractor's Scope of Work attached hereto. It is understood that upon delivery to the City, all such instruments become the property of the City of its use without restriction. All services including reports, opinions and information to be furnished under this contract are confidential and shall not be divulged in whole or part to any person other than duly authorized representative of the City. The contractor shall take all necessary steps to insure that no member of his staff divulges any such information, except as herein permitted.
- F. The Contractor agrees that during the performance of this contract:
 1. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religious creed, national origin, sex, gender identity, sexual orientation, genetic information, ancestry, and disability.
 2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive equal consideration for employment without regard to race, color, religious creed, national origin, sex, gender identity, sexual orientation, genetic information, ancestry, and disability.
 3. The Contractor's rights, obligations and duties under this contract shall not be assigned in whole or part without prior written consent of the City, but this shall not prohibit written consent of the City, but this shall not prohibit the assignment of the proceeds due or to become due hereunder to a bank or financial institution

without such approval. None of the services to be performed by the Contractor pursuant to this contract shall be subcontracted without the prior written consent of the City.

- G. Incorporation by Reference:** All requirements, specifications, terms and conditions described in the Invitation for Bids ('IFB') and any addendums issued, shall be incorporated by reference into this contract.
- H. Conflict of Interest** - Both the City and the Contractor stipulate to the applicability of Massachusetts General Law Chapter 268A, the Conflict of Interest Statute. The Parties further stipulate that the terms and conditions of this contract expressly prohibit any activity which constitutes a violation of this statute. The Contractor shall be deemed to have investigated its applicability to the performance of this contract; and by executing the contract documents the Contractor certifies to the City that neither it nor its agents, employees or subcontractors are thereby in violation of General Laws Chapter 268A. Pursuant to Chapter 28 of the Acts of 2009, as amended, all key employees must complete online ethics training on the State Ethics Commission's website www.mass.gov/ethics. Satisfaction of these requirements is the sole responsibility of the Contractor and its key employees, and the City shall have no liability for the Contractor's or its key employees' failure to meet these requirements
- I. Termination** - This contract may be terminated by either party upon seven days written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof through no fault of the terminating party. If the City terminates this agreement under the terms of this paragraph and it is later determined that the Contractor had not so failed, the Contractor shall be paid for services performed to the termination notice date.

In addition, the City may terminate this agreement at any time upon seven days written notice. Upon receipt of ANY termination notice, the Contractor shall:

1. Promptly discontinue all service affected (unless the notice directs otherwise) ; and
2. Deliver or otherwise make available to the City all data, drawings, reports, estimates, memoranda, summaries, work products and the information that the Contractor may have accumulated in performing this contract, whether complete or in process.
3. The City may take over the work in this contract and prosecute the same to completion by agreement with another party or otherwise.
4. In the event of a termination, an equitable adjustment shall be made in moneys paid the Contractor. The adjustment shall provide for payment to the Contractor for services rendered and expenses incurred before the termination settlement costs the Contractor reasonably incurs relating to commitments which had become firm before the termination.
5. Dispute resolution:
 - a) All disputes between the contractor and city shall be subject to non-binding mediation.
 - b) Either party may demand mediation by serving a written notice stating the essential nature of the dispute, the amount of time or money claimed and requiring that the matter be mediated within forty five (45) days of service of the notice.
 - c) The mediation shall be administered by a mutually agreed upon mediator, failing an agreement by the American Arbitration Association in accordance with its most recent construction mediation rules.
 - d) No action or suit may be commenced unless mediation has occurred but did not resolve the dispute, or unless a statute of limitation period would expire if suit were not filed prior to such forty five days after service of notice.
 - e) Massachusetts law shall govern this agreement.
6. **Termination and Default**

1. Without Cause. The City may terminate this Contract at its sole discretion upon on seven (7) calendar days' notice when in the best interests of the City by providing notice to the Contractor, which shall be in writing and shall be deemed delivered and received when given in person to the Contractor, or when received by express mail, certified mail return receipt requested, regular mail postage prepaid or delivered by any other appropriate method evidencing actual receipt by the Contractor. Upon termination without cause, Contractor will be paid for services rendered to the date of termination.

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

3. Default. The following shall constitute events of a default under the Contract: 1) any material misrepresentation made by the Contractor to the City 2) any failure to perform any of its obligations under this Contract including, but not limited to the following: (i) failure to commence performance of this Contract at the time specified in this Contract due to a reason or circumstance within the Contractor's reasonable control, (ii) failure to perform this Contract with sufficient personnel and equipment or with sufficient material to ensure the completion of this Contract within the specified time due to a reason or circumstance within the Contractor's reasonable control, (iii) failure to perform this Contract in a manner reasonably satisfactory

to the City, (iv) failure to promptly re-perform within a reasonable time the services that were rejected by the City as unsatisfactory, or erroneous, (v) discontinuance of the services for reasons not beyond the Contractor's reasonable control, (vi) failure to comply with a material term of this Contract, including, but not limited to, the provision of insurance and non-discrimination, (vii) any other acts specifically and expressly stated in this Contract as constituting a basis for termination of this Contract, and (viii) failure to comply with any and all requirements of federal or state law and/or regulations, and City bylaws and/or regulations.

J. The Contractor's Breach and the City's Remedies

1. Failure of the Contractor to comply with any of the terms or conditions of this Contract shall be deemed a material breach of this Contract, and the City of Gloucester shall have all the rights and remedies provided in the Contract documents, the right to cancel, terminate, or suspend the Contract in whole or in part, the right to maintain any and all actions at law or in equity or other proceedings with respect to a breach of this Contract, including damages and specific performance, and the right to select among the remedies available to it by all of the above.
2. From any sums due to the Contractor for services, the City may keep the whole or any part of the amount for expenses, losses and damages incurred by the City as a consequence of procuring services as a result of any failure, omission or mistake of the Contractor in providing services as provided in this Contract.

K. Compensation

1. The City shall pay the Contractor for services rendered under this contract in accordance with the amount(s) set forth in the Contractor's Bid Price Form and pursuant to the provisions contained in the Project Manual
2. Notwithstanding anything to the contrary contained in the Contract, the City may withhold any payment to the Contractor hereunder if and for so long as the Contractor fails to perform any of its obligations hereunder or otherwise is in default under this Contract including, without limitation, any failure to perform Services in full accordance with the amount sufficient in the reasonable opinion of the City to cure any such default or failure of performance by the Contractor.
3. In no event shall the City be required to pay any amounts for work deemed by it to be unacceptable, or which are otherwise disputed. In the event the City disputes any such amounts invoiced, it shall pay all amounts not in dispute and notify the Contractor in writing of the amounts disputed and the reasons therefor.
4. No payment made shall constitute or be construed as final acceptance or approval of that part of the Services to which payment relates, or relieve the Contractor of any of its obligations outlined in this Contract. Further, the City shall not be deemed, by virtue of making payments to the Contractor hereunder, to have released the Contractor from any claim or liability, or to have waived any action arising out of the breach of this Contract by the Contractor.

- L. Notice** - No notice, action, or other communication shall be effective unless received by the persons holding the following designated positions:

FOR THE CITY		FOR THE CONTRACTOR	
Name	Michael Hale	Name	
Title	DPW Director	Title	
Address	28 Poplar Street	Address	
City, State, Zip	Gloucester, MA 01930	City, State, Zip	
Phone	978 325 5600	Phone	
E-Mail	mhale@gloucester-ma.gov		

All notices shall be in writing except in exigent circumstances, telephone communication confirmed by an immediate subsequent correspondence shall be effective.

- M. Contract Interpretation** - This contract shall be construed as a Massachusetts contract and any interpretation of its meaning, effects or consequences shall be determined with reference to Massachusetts statutory and common law.
- N. Contract Changes** - This agreement may be modified or altered by the parties at any time, provided, however, that such modification or alterations are evidenced by a writing and signed by all parties hereto.
- O. Contract Provision** - The contract provisions included in the City of Gloucester's standard language will prevail and take precedence over any contradictory term or condition included in the contract documents.
- P. City's Obligation's Subject to Appropriation** – The following language is intended to address the requirement that the city cannot incur liabilities in excess of appropriation and that funds must be appropriated for the first fiscal year of a contract as required by General Law c. 44, sec. 31 and c. 30B, sec. 12: The City is obligated only to pay its obligations set forth in this Agreement as may lawfully be made from funds appropriated and budgeted for that purpose during the City's then current fiscal year. Should the City elect not to appropriate and budget funds to pay its Agreement obligations, this Agreement shall be deemed terminated at the end of the then-current fiscal year term for which such funds were appropriated and budgeted for such purpose and the City shall be relieved of any subsequent obligation under this Agreement. The parties agree that the City has no obligation or duty of good faith to budget or appropriate the payment of the City's obligations set forth in this Agreement in any

budget in any fiscal year unless the funds are available in the fiscal year in which this Agreement is executed and delivered. The City shall be the sole judge and authority in determining the availability of funds for its obligations under this Agreement. The obligation of the City to make any payment pursuant to this Agreement is not a general obligation or indebtedness of the City. Contractor hereby waives any and all rights to bring any claim against the City from or relating in any way to the City's termination of this Agreement pursuant to this section. The contract is subject to the appropriation of funds each fiscal year. The contract is subject to termination or cancellation, without penalty to the City of Gloucester, either in whole or in part, for failure of City Counsel to budget the required funds.

INDEMNIFICATION AND INSURANCE REQUIREMENTS

To the fullest extent permitted by law, the Contractor shall fully indemnify, defend and hold harmless the City of Gloucester, including its officers and employees, from any and all suits, claims, demands, liabilities, liens and causes of action, including any costs, expenses or fees of attorneys or experts, for or on account of any injury to persons, damage to property, fines, penalties, assessments or any loss of whatever kind or nature arising out of or in consequence of the performance of the Contractor under this Contract, caused in whole or in part by any act or omission of the Contractor or anyone directly or indirectly employed by him or anyone for whose acts the Contractor may be liable, regardless of whether it is caused in part by a party indemnified hereunder. The foregoing provisions shall not be deemed to be released, waived or modified in any respect by reason of any surety or insurance provided by the contractor under contract.

MANDATORY INSURANCE COVERAGES

INSURANCE TYPE	COVERAGES	LIMITS
General Liability		
COMPREHENSIVE FORM	Premises/Operations	Each Occurrence
BROAD FORM PROPERTY DAMAGE	Underground, Explosion, & Collapse (UEC) Hazard Products/Completed Operations (<i>shall also by endorsement extend to the City's status as additional insured</i>)	\$ 1,000,000
PERSONAL INJURY	Independent Contractors Combined	Aggregate
	Aggregate Limits Shall apply "per project"	\$ 2,000,000
	Waiver of subrogation Clause/Endorsement	
	Severability of Interests Clause/Endorsement	
Automobile Liability		
BODILY INJURY & PROPERTY DAMAGE	All Owned Vehicles Hired Vehicles Combined Non Owned Vehicles Waiver of subrogation Clause/Endorsement Severability of Interests Clause/Endorsement	\$ 1,000,000
Workers Compensation & Employers Liability		
PART A	As Required by State of Massachusetts	
PART B	Each Accident	\$ 500,000
	Bodily Injury by Disease (Policy Limit)	\$ 500,000
	Bodily Injury by Disease (Each Employee)	\$ 500,000

There may be additional insurance policies and increased or additional coverages for the above-referenced policies required that are listed in addendums to this contract. The City of Gloucester (CITY) shall be named as additional insured on all policies of insurance required by this contract. All policies required by this contract where the City is named as an additional insured shall contain language that the insurance is primary and non-contributory with regard to other insurance that may be available to the City. The following certificates of insurance MUST be submitted with the signed copy of this contract. The contractor expressly agrees to obtain and maintain all required policies and coverages in place and valid for the entire term of the contract period, during any applicable warranty period and any further time as required by the contract documents. In addition to certificates, the Contractor agrees to provide the City with any evidence of insurance requested, including copies of policies or specific endorsements, upon request by the City or its representative.

- A. **Automobile Liability:** Insurance must include owned, hired, and non-owned. ***ALL VEHICLES MUST BE LISTED ON THE INSURANCE CERTIFICATE(S)*** with minimum coverage and limits as shown in table above.
- B. **Commercial General Liability:** The minimum limits shown in table above shall apply.
- C. **Workers' Compensation Insurance:** Coverage not less than that required by Massachusetts General Laws and as further defined in the table above. A Certificate(s) of Insurance covering Workers' Compensation must be submitted covering the dates of the contract. Worker's Compensation Insurance must be provided in any instance where an employee of the vendor will perform work on this project. There are no general exceptions to the requirement of Worker's Compensation Insurance. CONSULTANTS are not permitted to hire subcontractors to perform services under the contract unless CITY has agreed to this arrangement in advance.

AGREEMENT #27052

IN WITNESS WHEREOF, the parties hereto have set their hands and seals.

ACCEPTED FOR THE CONTRACTOR:

I _____ hereby certify that I have the authority to act on behalf of the company
 (Print name and title)
 and bind the company on whose behalf I am signing this contract.

Authorized Signature_____
Title_____
Date_____
Address_____
Telephone**ACCEPTED FOR THE CITY OF GLOUCESTER**_____
Mayor_____
DateCity Hall, 9 Dale Ave.,
Gloucester, MA 01930_____
978-325-5100_____
Telephone**APPROVED:**_____
Purchasing Agent_____
DateCity Hall, 9 Dale Ave.,
Gloucester, MA 01930_____
978-325-5110_____
Telephone_____
Contract Manager_____
DateDPW, 28 Poplar St.,
Gloucester, MA 01930_____
978 325 5600_____
Telephone**APPROVED AS TO FORM**_____
City Solicitor_____
DateCity Hall, 9 Dale Ave.,
Gloucester, MA 01930_____
978-325-5115_____
Telephone**CERTIFICATION AS TO FUNDS**

Certification is herewith given that funds are available for payments required by the terms contained in this contract

	Total		PO Number

APPROVED BY:_____
City Auditor_____
DateCity Hall, 9 Dale Ave.,
Gloucester, MA 01930_____
978-325-5130_____
Telephone

Starting Date: The Contractor shall begin work no later than the date of execution
Completion Date: May 14, 2027

CERTIFICATE OF AUTHORITY TO SIGN CONTRACT

_____ 20

I, _____ Clerk/Secretary of _____
_____ named in the foregoing contract, certify that the Authorized signature _____
_____ who will sign the said Contract on behalf of said corporation; that I know his/her
signature; that his/her signature thereto is genuine and that said contract will be duly executed for and in behalf
of said corporation by authority of its Directors on a vote taken on _____, 20 .

Affix Corporate Seal Here:

Authorized Signature

Clerk/Secretary Signature

SECTION 00610
CONSTRUCTION PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: That we _____
(Name of Contractor)

a _____ hereinafter called "Principal" and
(Corporation, Partnership, Joint Venture or Individual)

_____ of _____, State of _____
(Surety) (City & State)

_____ hereinafter called the "Surety" and licensed by the State Division of Insurance to do business under the laws of the Commonwealth of Massachusetts, are held and firmly bound to the City/Town of _____, Massachusetts, hereinafter called "Owner", in the penal sum of _____ Dollars (\$ _____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that Whereas, the Principal entered into a certain contract with the Owner, dated the _____ day of _____, 20____ (the "Construction Contract"), for the construction described as follows: _____.

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of the Construction Contract during the original term thereof, and any extensions thereof which may be granted by the Owner, with or without notice to the Surety, and if he shall satisfy all claims and demands incurred under the Construction Contract, and shall fully indemnify and save harmless the Owner from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the Owner all outlay and expense which the Owner may incur in making good any default, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the Surety's obligation under this Bond shall arise after (1) the Owner has declared the Principal in default of the Construction Contract or any provision thereof or (2) has declared that the Principal has failed, or is otherwise unable or unwilling, to execute the work consistent with, and in conformance to, the Construction Contract (collectively referred to as a "Contractor Default"). The determination of a Contractor Default shall be made solely by the Owner. The Owner need not terminate the Construction Contract to declare a Contractor Default or to invoke its rights under this Bond.

When the Surety's obligation under this Bond arises, the Surety, at its sole expense and at the consent and election of the Owner, shall promptly take one of the following steps: (1) arrange for the Principal to perform and complete the work of the Construction Contract; (2) arrange for a contractor other than the Principal to perform and complete the work of the Construction Contract; (3) reimburse the Owner, in a manner and at such time as the Owner shall decide, for all costs and expenses incurred by the Owner in performing and completing the work of the Construction Contract. Surety will keep Owner reasonably informed of the progress, status and results of any investigation of any claim of the Owner.

If the Surety does not proceed as provided in this Bond with due diligence and all deliberate speed, the Surety shall be deemed to be in default of this Bond, and the Owner shall be entitled to enforce any remedy available to the Owner.

After the Surety's obligation under this Bond arises, the Surety is obligated, to the limit of the amounts of this Bond, for (1) the correction of defective work and completion of the Construction Contract; (2) additional design, professional services, and legal costs, including attorneys' fees, resulting from the Contractor Default or from the default of the Surety under this Bond; (3) any additional work beyond the Construction Contract made necessary by the Contractor Default or default of the Surety under this Bond; (4) indemnification obligation of the Principal, if any, as provided in the Construction Contract; and (5) liquidated damages as provided in the Construction Contract, or if none are so specified, actual and foreseeable consequential damages resulting from the Contractor Default or default of the Surety under this Bond.

Any proceeding, legal or equitable, under this Bond shall be instituted in any court of competent jurisdiction in the Commonwealth of Massachusetts.

The Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Construction Contract or to the work to be performed thereunder or the specifications accompanying the same shall in any way affect its obligation on this Bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Construction Contract or to the work or to the specifications.

IN WITNESS WHEREOF, this instrument is executed in ____ () counterparts, each one of which shall be deemed an original, this the _____ day of _____, 20____.

ATTEST:

_____		_____
(Principal Secretary)	By	Principal

		(Address-Zip Code)

Witness as to Principal (SEAL)

(Address-Zip Code)

ATTEST:

_____		_____
	By	Surety
		(Attorney-in-Fact)

		(Address-Zip Code)

Witness as to Surety (SEAL)

(Address-Zip Code)

NOTE: Date of Bond must not be prior to date of Contract. If Contractor is a Partnership, all partners should execute Bond.

SECTION 00620

CONSTRUCTION PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: That we _____

_____ a _____
(Name of Contractor) (Corporation, Partnership, Joint Venture or Individual)

hereinafter called "Principal" and _____ of _____,
(Surety)

State of _____ hereinafter called the "Surety" and licensed by the State
(City and State)

Division of Insurance to do business under the laws of the Commonwealth of Massachusetts, are held and firmly bound to the City/Town of _____, Massachusetts, hereinafter called "Owner", in the penal sum of _____ Dollars (\$ _____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that Whereas, the Principal entered into a certain contract with the Owner, dated the _____ day of _____, 20____, for the construction described as follows:

NOW, THEREFORE, if the Principal shall promptly make payment to all persons, firms, subcontractors, and corporations furnishing materials for or performing labor in the prosecution of the work provided for in such contract, and any authorized extension or modification thereof, including all amounts due for materials, lubricants, oil, gasoline, coal and coke, repairs on machinery, equipment and tools, consumed or used in connection with the construction of such work, and all insurance premiums on said work, and for all labor, performed in such work whether by subcontractor or otherwise, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same shall in any way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of this contract or to the work or to the specifications.

PROVIDED, FURTHER, that no final settlement between the Owner and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in ____ () counterparts, each one of which shall be deemed an original, this the _____ day of _____, 20__.

ATTEST:

_____	By	_____ Surety
		_____ (Attorney-in-Fact)
		_____ (Address-Zip Code)
_____ (SEAL)		
Witness as to Surety		

_____ (Address-Zip Code)		

NOTE: Date of Bond must not be prior to date of Contract. If Contractor is a Partnership, all partners should execute Bond

END OF SECTION

GENERAL CONDITIONS

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SECTION 00700
GENERAL CONDITIONS

ARTICLE I - GENERAL

- A. Every provision of this Contract shall have the same force and effect as if included and repeated in every division or subdivision of the Contract under which it may apply.
- B. Headings, letterings, and numbers of the various divisions and subdivisions of and in the Contract are intended for convenience of reference only and have no force or effect whatever on the intent of the Contract.

ARTICLE II - DEFINITIONS

Wherever the words defined in this Article or pronouns used in their stead occur in this Contract, they shall have the meanings here given.

- A. The words "Contract Documents" and "the Contract" shall mean this Contract and shall include Notice to Bidders, Information for Bidders, Proposal, Bid Bond, Agreement, Performance and Payment Bond, General Conditions, Special Conditions, Construction Specifications, Drawings, Addenda, Notice of Award, Notice to Proceed, the Change Orders. The Contract Documents represent the entire and integrated agreement between the Owner and the Contractor. The Contract shall not be construed to create any contractual relationship of any kind between the Engineer and the Contractor, but the Engineer shall be entitled to performance of obligations intended for his benefit and to enforcement thereof. Nothing in the Contract Documents shall create any contractual relationship between the Owner or the Engineer and any Subcontractor.
- B. The word "Owner" or "Project Sponsor" or "Awarding Authority," shall mean the City of Gloucester, MA.
- C. The word "State" shall mean the Commonwealth of Massachusetts.
- D. The word "Commonwealth" shall mean the Commonwealth of Massachusetts.
- E. The words "Approval of the Owner" or "Approved by the Owner," "Approval of the Engineer" or "Approved by the Engineer," shall mean approval in writing.
- F. The word "Contractor" shall mean the party termed as such by the Agreement, his/her heirs, executors, administrators, successors, or assigns as regards the obligations of the Contract.
- G. "Subcontractor." A person, firm, or corporation supplying labor and materials, or only labor, for work at the site of the project under separate Contract or agreement with the Contractor.
- H. The word "Contract Drawings" or words of like effect shall mean the Drawings listed by that number and title herein.
- I. The words "as permitted," "as required," or words of like effect shall mean that the permission or requirement of the Engineer is intended; the words "approved," "acceptable," "satisfactory," or words of like import shall mean approved by, or acceptable to, or satisfactory to the Engineer - and the words

GENERAL CONDITIONS

"necessary," "suitable," "equal," or words of like import shall mean necessary, suitable, or equal in the opinion of the Engineer.

- J. The Owner is treated as if it were of singular number and neuter gender and the Contractor and the Engineer are treated as if each were of the singular number and masculine gender.
- K. The words "Notice to Proceed" shall mean a written notice to the Contractor of the date on which he is to begin the prosecution of the work for which he has contracted.
- L. Any communication to the Owner shall be addressed to the City of Gloucester, MA.
- M. The word "work" shall mean all performance, including the furnishing of materials, labor, tools, equipment and incidentals required of the Contractor under the terms of this Contract, including the transportation of the materials and supplies to or from the location of the project by employees of the Contractor and any subcontractor.

ARTICLE III - INTERPRETATION OF CONTRACT

The Contractor shall at his own proper cost and expense provide and do everything necessary to prepare for and perform everything required under the conditions and requirements of the Contract, and he hereby agrees that the Engineer shall in the first instance be the interpreter of the Contract Documents, and all the work contemplated and described therein shall be so done as to satisfy him that its intent is fulfilled. The Engineer shall promptly render impartial decision on all claims of either party against the other and on all other matters governed by this intent, including questions as to the execution and progress of the work, the quality and types of materials and workmanship, the suitability of methods, and costs and values. The determination and decision of the Engineer shall be final and binding on both parties, and shall be a condition precedent to the right of the Contractor to receive any money hereunder, except as to those areas of disputed work covered under ARTICLE XII - DISPUTED WORK, DETERMINATION OR ORDER.

ARTICLE IV - DRAWINGS AND SPECIFICATIONS

The Owner will furnish to the selected or awarded Contractor, at no charge, two copies of the Contract Drawings, and two copies of the Contract Specifications. Additional copies of the Contract Drawings and Contract Specifications shall be provided at the Contractor's expense.

The Plans, Drawings, Specifications and other data and documents prepared for use in connection with this Contract are intended to be complementary to each other, but should any discrepancy appear or any misunderstanding arise as to the import of anything contained in them or any of them, except to those areas of disputed work covered by ARTICLE XII - DISPUTED WORK, DETERMINATION OR ORDER the explanation or decisions of the Engineer shall be final and binding on the parties hereto.

Any errors or omissions in Plans, Drawings or Specifications or in other data or documents may be corrected by the Engineer when such correction is necessary for the proper fulfillment of their intention as construed by him, such correction to govern only from the time that the Engineer gives notice in writing thereof to the Contractor.

The Contractor shall not take any advantage, or make any claim for damages on account of any omission, discrepancy or error in any soundings, borings, estimates, schedules, specifications, drawings, plans, or other data or documents furnished him, but shall report same to the Engineer as soon as it comes to his knowledge.

ARTICLE V - NOT TO SUBLET OR ASSIGN

The Contractor shall keep the Contract under his control; and shall not assign, by power or attorney or otherwise, any portion of said work, or any moneys payable under the Contract or his claim thereto, unless by the previous approval of the Owner and the Surety. No part of this work shall be sublet except to parties skilled in and equipped properly for the same and satisfactory to the Engineer and approved by the Owner.

ARTICLE VI - INSURANCE REQUIREMENTS

- A. The General Contractor shall purchase and maintain such insurance as will protect him from claims under worker's compensation acts and from claims for damages because of bodily injury, including death, and property damage which might arise from and during operations under this contract, whether such operations be by himself or by a Subcontractor or anyone directly or indirectly employed by either of them.
- B. Contractor shall not commence work under this Contract until he has obtained all insurance required herein nor until such insurance has been approved by the Owner. Contractor shall not allow any Subcontractor to commence work until the insurance required of the Subcontractor has been obtained and approved.
- C. Subcontracts: Contractor shall either (1) require each Subcontractor to procure and to maintain during the life of his Subcontract, Subcontractor has General Liability and Property Damage Insurance of same type and in such manner as specified herein, or (2) Insure activities of his Subcontractors on his own policy.
- D. All insurance required by this Document shall be provided by a Best "A+ VIII" rated company, or companies, authorized to do business in the Commonwealth of Massachusetts and satisfactory to the owner and shall be written for not less than any limits of liability specified herein, or required by law, whichever is greater.
- E. Certificates: Certificates of Insurance acceptable to the Owner shall be submitted in triplicate to the Owner simultaneously with the execution of the Contract. Certificates shall indicate that broad form Contractual Liability coverage is in force, as well as deletions of the XCU exclusions. Certificates shall contain a provision that the insurance company will notify the Owner by registered mail at least (60) calendar days in advance of any cancellation, non-renewal, change or expiration of the policies. Certificates shall include description of coverage, effective dates and expiration dates of policies and shall clearly indicate all exclusions (other than standard policy form exclusions contained in the basic policy) which will be added to the policies provided.
- F. Deductibles: In the event of paid claims, Contractor shall bear costs of any amounts deductible.
- G. The Owner shall be named as additional insured under all policies.
- H. Before any blasting is done, Contractor shall present evidence that blasting damage is included in his insurance coverage.

COVERAGE AND LIMITS

A. Workers' Compensation Insurance:

The Contractor shall maintain and cause all subcontractors and lower tier contractors to maintain Workers Compensation and Employers Liability Insurance in accordance with the law and regulations of the Commonwealth of Massachusetts. The limits of liability provided shall be as follows:

Coverage A: Statutory

Coverage B: \$500,000/\$500,000/\$500,000

B. Contractor's Liability Insurance

The Contractor shall purchase and maintain Commercial General Liability Insurance and cause all subcontractors and lower tier contractors to maintain the same throughout the term of the Work. Commercial General Liability Insurance must with all applicable broad form endorsements. Such insurance shall be on the 1986 standard insurance Service Office occurrence coverage form (or any later amendments or revisions thereto).

Limits of liability to be provided shall be as follows:

Bodily Injury and Property Damages \$1,000,000

Personal Injury and Advertising Injury \$1,000,000

General Aggregate \$2,000,000

Products/Completed Operations Aggregate \$2,000,000

Medical Payments \$ 10,000

Coverage shall specifically include blanket contractual liability covering Contractor's indemnity obligations as contained in this Document. The City of Gloucester must be added as an additional Insured as their interest may appear.

C. Business Automobile Liability:

The Contractor shall maintain and cause all subcontractors and lower tier contractors to maintain business automobile liability insurance covering all owned, non-owned, leased, rented and hired automobiles (symbol 1). The limits of liability shall be as follows:

Bodily Injury and Property Damage: \$1,000,000 per occurrence

Automobile physical damage coverage shall be at the option of the Contractor, all subcontractors and lower tier contractors. The Owner shall not be liable for physical loss or damage to any owned, non-owned, leased, rented or hired automobile.

The City of Gloucester must be added as an additional insured as their interest may appear.

D. Umbrella or Excess Liability

Umbrella or Excess Liability shall be provided in excess of the primary limits of liability required above. Coverage shall be at least as broad as provided in the primary coverage required. The limits of liability to be provided shall be as follows:

\$2,000,000 per occurrence Bodily Injury and Property Damage

\$2,000,000 per occurrence Personal Injury and Advertising Injury

\$2,000,000 General Aggregate

\$2,000,000 Products and Completed Operations Aggregate

E. Builder's Risk Insurance

The Contractor shall provide Builder's Risk Insurance for "All Risks" and shall provide coverage for the buildings and structures that are not specified to be removed, and the additions to any structures. Such coverage will include all structure additions and materials used for the Work while at the construction site or on route to the construction site. The amount of Builder's Risk Coverage will equal the total cost of the construction project.

INDEMNIFICATION

The Contractor shall take responsibility for the work and take all precautions for preventing injuries to persons and property in or about the work and shall bear all losses resulting to it on account of amount or character of the work. The Contractor shall pay or cause payment to be made for all labor performed or furnished and for all materials used or employed in carrying out the Contract. The Contractor shall assume the defense of, and indemnify and save harmless, the Designer, the Owner, and their officers and agents from all claims relating to labor performed or furnished and materials used or employed for the work: to inventions, patents and patent rights used in and in doing the work unless injuries to any person or corporation received or sustained by or from the Contractor and its employees, and subcontractors and employees, in doing the work, or in consequence of any improper materials, implements or labor used or employed therein; and to any act, omission or neglect of the Contractor and its employees therein.

PERFORMANCE AND PAYMENT BONDS

The Contractor shall provide the Owner with a performance bond and a labor and materials or payment bond executed by a surety company licensed by the Commonwealth of Massachusetts.

ARTICLE VII - ALTERATIONS OF WORK

- A. The Owner may make alterations in the form or character of any of the work done, or to be done, and in the requirements of the Contract Documents, and the Engineer may order in writing such alterations to be made. Such order shall be by means of a written Change Order, supplemented with drawings when in the opinion of the Engineer it is necessary, which shall include a description of the change with revised specifications, estimated quantities, and prices of the work involved in the alterations made. Each Change Order shall make provisions for revising the time of completion of all work to be done under this Contract or shall state that no revision of time is necessary. All such Change Orders shall be approved in

GENERAL CONDITIONS

writing by the Owner's Contract Manager or the Mayor and accepted in writing by the Contractor before they become effective. If the Owner and Contractor do not agree on the revised prices of the work involved in the alterations, the work shall be paid for on the cost-plus basis as provided for Extra Work in ARTICLE VIII -EXTRA WORK.

- B. All work involved in the alterations shall be made under the terms and as a part of this Contract, and the security for the performance of the Contract shall in no wise be invalidated, but shall be held to secure in like manner the performance of the work involved in the alterations made under the Contract.

ARTICLE VIII - EXTRA WORK

- A. For the purpose of this Contract all Change Orders which include extra work shall be referred to as Extra Work Orders.
- B. The Contractor shall do any work in addition to the obligations required under the Contract in the original form of its Contract Documents and not herein otherwise provided for as ordered in writing by the Engineer. Such work shall be termed Extra Work. All orders for Extra Work shall contain particular reference to this Article. Before any work is commenced under any Extra Work Order, the order shall be approved by the Owner's Chief Procurement Officer (Mayor) in writing and accepted in writing by the Contractor. It is understood that the Owner may, at its option, have other parties do work in connection with the work to be done under this Contract, which is not within the limits or is not an integral part of the work herein specified, in lieu of having such work done as Extra Work under this Contract.
- C. All requirements of this Contract and its documents shall be applicable to Extra Work. The Contractor shall not receive any compensation for Extra Work, regardless of its nature, unless the work was ordered done in the manner prescribed above. The Contractor waives all rights to claim any compensation for any work done except (a) that provided for payment as stated in the Proposal, (b) alterations of the work as provided for in ARTICLE VII ALTERATIONS OF WORK, and (c) that provided for as Extra Work ordered done as described in this Article.
- D. All written orders for Extra Work issued by the Engineer shall be accompanied by drawings, if in the opinion of the Engineer drawings are necessary: all orders shall describe the work to be done, shall make provisions for revising the time of completion of all work to be done under this Contract or shall state no revision of time is necessary, and shall prescribe unit prices or the total cost of the Extra Work agreed to by the Owner and Contractor for the work to be done. If the Owner and the Contractor do not agree on unit prices or the total cost of the Extra Work to be done, the orders for Extra Work shall provide for the work to be done on a cost-plus basis, so that the Contractor will receive for full compensation for providing and doing everything required to prepare for and perform everything included in the Extra Work Order the actual cost to him of the following items applicable to the Extra Work Order:
 - 1. All labor directly on the Contractor's payroll at specified rates;
 - 2. Salaries of Contractor's employees stationed at the field office, engaged at shops or on the road in expediting the production or transportation of material;
 - 3. Fees for licenses and permits required particularly for the extra work involved and not required for the work as planned in the original Contract;
 - 4. Minor expenses, such as telephone service, express, and similar petty cash items;

5. Cost of hand tools not owned by the workmen consumed in the prosecution of the work, and depreciation of such tools used but not consumed and which shall remain the property of the Contractor;
 6. Cost of moving equipment from and to the Contractor's yard; and
 7. Cost of Bonds
- E. To the cost of items 1 to 7, inclusive, there shall be added a fixed fee to be agreed upon but not to exceed 15 percent of the total of items 1 to 7, inclusive. The fee shall be compensation to cover the cost of general supervision, overhead, profit, and other general expenses.
- F. If the work is done by a subcontractor, and the cost is determined on the actual cost basis, there shall be added an additional fixed fee to be agreed upon but not to exceed 5 percent of the total of item 1 to 7, inclusive. This additional fee shall be compensation to cover the General Contractor. In no case shall the combined overhead and profit allowed to the Subcontractor and General Contractor exceed 20 percent.
- G. The Contractor shall furnish to the Engineer an itemized statement of all costs incurred in Extra Work during any calendar month on or about the first of the next following month. All quantities (labor, equipment, etc.) shall be agreed upon on daily basis, in writing, by the Contractor and Engineer.
- H. Unless otherwise specifically provided for in the Extra Work Orders, the compensation agreed to, whether unit prices, total cost or the cost-plus basis as described above, includes payment for any damages or expense caused the Contractor by any delays to other work to be done under the Contract resulting from or on account of Extra Work, and the Contractor waives all rights to any compensation for such damage or expense except as may be provided for in the Extra Work Orders.

ARTICLE IX - PAYMENTS

- A. The Owner shall pay and the Contractor shall receive as full compensation for providing and doing everything required to prepare for and perform everything called for by this Contract, and as full compensation also for all loss or damage arising out of the nature of the work under the Contract, or from the action of the elements, or from fire, or from any unforeseen obstructions or difficulties which may be encountered in the prosecution of the said work; also for all expenses incurred by, or in consequence of, the suspension or discontinuance of said work in accordance with the Contract, including all work incidental thereto, the prices stated in the bid Schedule of Prices, or the prices revised, if such are revised as provided for in ARTICLE VII ALTERATIONS OF WORK, and also the cost of Extra Work authorized under ARTICLE VIII EXTRA WORK.
- B. It is understood and agreed that the Contractor shall receive payment in accordance with the Schedule indicated under the lump sum item.
- C. A retainage of 5 percent of the total amount of work invoiced shall be retained by the City until the construction work has been completed to the approval of the Engineer. The full Contract price shall be paid to the Contractor only after completion of all work to be done and final acceptance has been given by the Owner and Engineer in writing.

ARTICLE X - GUARANTEE

- A. The Contractor guarantees that the work and services to be performed under the Contract, and all workmanship, materials and equipment performed, furnished, used or installed in the construction of the same, shall be free from defects and flaws, and shall be performed and furnished in strict accordance with the Drawings, Specifications and other Contract Documents, that the strength of all parts of all manufactured equipment shall be adequate and as specified and that the performance test requirements of the Contract shall be fulfilled. This guarantee shall be for a period of one year from and after the date of completion which date of completion shall be determined under the provisions of ARTICLE IX PAYMENTS herein. If part of the work is accepted in accordance with the Special Conditions, the guarantee for that part of the work shall be for a period of one year from the date fixed for such acceptance. Said guarantees are in addition to any other guarantees provided by law or otherwise.
- B. If at any time within the said period of guarantee any part of the work requires repairing, correction or replacement, the Owner may notify the Contractor in writing to make the required repairs, corrections, or replacements. If the Contractor neglects to commence making such repairs, corrections, or replacements to the satisfaction of the Owner within seven (7) days from the date of receipt of such notice, or having commenced failed to prosecute such work with diligence, the Owner may employ other persons to make the same, and all direct and indirect costs of making said repairs, corrections or replacements, including compensation for additional professional services, shall be paid by the Contractor.

ARTICLE XI - RIGHT OF THE OWNER TO TERMINATE CONTRACT

- A. If the Contractor shall be adjudged bankrupt or if he shall make a general assignment for the benefit of his creditors, or if a receiver shall be appointed of his property, or if the work to be done under this Contract shall be abandoned, or if this Contract or any part thereof shall be sublet without the previous written consent of the Owner, or if the Contract or any claim thereunder shall be assigned by the Contractor otherwise than as herein specified, or if at any time the Engineer shall certify in writing to the Owner that the rate of progress of the work or any part thereof is unsatisfactory or that the work or any part thereof is unnecessarily or unreasonably delayed, or that the Contractor has violated any of the provisions of this Contract, the Owner may notify the Contractor to discontinue all work or any part thereof; and thereupon, the Contractor shall discontinue such work or such part thereof as the Owner may designate and charge the entire expense of so completing the work or part thereof to the Contractor; and for such completion, the Owner for itself or its contractors may take possession of and use or cause to be used in the completion of the work or part thereof any of such materials, machinery, implements and tools of every description as may be found upon the site of the Contractor's operations. The Owner may at its option require the surety or sureties to complete the Contract.
- B. All expenses charged under this Article shall be deducted and paid by the Owner out of any money then due or to become due the Contractor under this Contract or any part thereof; and in such accounting, the Owner shall not be held to obtain the lowest figures for the work of completing the Contract or any part thereof, or for insuring its proper completion, but all sums actually paid therefore shall be charged to the Contractor. In case the expenses so charged are less than the sum which would have been payable under this Contract if the same had been completed by the Contractor, the Contractor shall be entitled to receive the difference, but only for work actually completed by the Contractor. If such expenses shall exceed the said sum, the Contractor shall pay the amount of the excess to the Owner upon completion of the work without further demand being made therefor.

ARTICLE XII - DISPUTED WORK, DETERMINATION OR ORDER

- A. If the Contractor is of the opinion that any work ordered to be done as Contract work by the Engineer is in fact Extra Work and not Contract work, or that any determination or order of the Engineer violates the provisions of this Contract, he must promptly, and before proceeding with such work or complying with the determination or order, notify the Owner and Engineer in writing of his contentions with respect thereto and request a final determination thereon.
- B. If the Owner determines that the work is Contract work and not Extra Work, or that the determination or order complained of is proper, it will direct the Engineer to order the Contractor to proceed and the Contractor must promptly comply. However, in order to reserve the right to claim compensation for such work or damages resulting from such compliance, the Contractor must, within five days after receiving notice of the Owner's determination, notify the Owner and Engineer in writing that the work is being performed or that the determination is being complied with under protest.
- C. If the Contractor fails to so appeal to the Owner and Engineer, or having appealed, should the Contractor fail to notify the Owner and Engineer in writing of his doing the work under protest, the Contractor shall be deemed to have waived any claim for extra compensation or damages. No oral appeals or oral protests shall be deemed as compliance with the provisions of this Article.

ARTICLE XIII – MINORITY PROCUREMENT GOALS

- A. Under Massachusetts Executive Order 237, it is the policy of the Commonwealth to promote the fullest participation of all citizens in resources provided by municipal government. Therefore, the City of Gloucester invites the participation of minority and women owned businesses in any and all parts of the contract.
- B. The City of Gloucester invites all qualified women and minority owned business firms to respond to bid invitations.

ARTICLE XIV – OSHA 10 TRAINING

- A. All employers must certify at the time of the bid that all employees to be employed at the jobsite have successfully taken an OSHA 10-hour course. Documentation of successful course completion for each employee must be submitted with the first certified payroll report (CPR) on which the employee's name appears. Employers shall attach copies of the OSHA 10-hour cards to the first certified payroll report.

END OF SECTION

SPECIAL CONDITIONS

INDEX

<u>NUMBER</u>	<u>TITLE</u>
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3.	SHOP DRAWINGS AND CERTIFICATES
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6.	SUPERINTENDENCE, SKILLED LABOR, AND EMPLOYEES
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9.	MASSACHUSETTS SALES TAX EXEMPTION
10.	ANTI-DISCRIMINATION CLAUSE
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13.	WAGE RATES
14.	CONTRACT AND REFERENCE DRAWINGS

SECTION 00800

SPECIAL CONDITIONS

PART 1 - COMMENCEMENT AND COMPLETION

- 1.1 The Contractor shall commence work within seven (7) calendar days after the dates specified in the Notice to Proceed and shall fully complete the work as herein prescribed no later than May 14, 2027.
- 1.2 It is specifically understood that "Completion" as used herein shall mean full and entire completion including, without limitation, all items and other incidentals required to perform the work under this Contract. Substantial performance is not completion within the meaning of the contract.

PART 2 - LIQUIDATED DAMAGES

- 2.1 Contractor agrees to pay as liquidated damages, the sum of \$1,000.00 for each consecutive calendar day that the Contractor is in default of completing the work.
- 2.2 It is hereby understood and mutually agreed by and between the Contractor and the Owner that the date of beginning and the time for completion are ESSENTIAL CONDITIONS of this Contract; and it is further mutually understood and agreed that the work embraced in this Contract shall be commenced as stated in the Contract Documents.

PART 3 - SHOP DRAWINGS AND CERTIFICATES

- 3.1 The Contractor shall submit so as to avoid delay in its work, or that of any Subcontractor, five copies or electronic files of all shop, detail or working drawings and samples, and certificates required for the work and the Engineer shall review them noting comments. If required, the Contractor shall make corrections and resubmit electronic files or five corrected copies or samples for final review and furnish such other copies as may be needed.
- 3.2 The Engineer's review of such Drawings and/or certificates shall not relieve the Contractor from responsibility/for deviations from the Contract Drawings or Specifications, unless it had in writing called the Engineer's attention to such deviations at the time of submission, and unless the Engineer shall have issued a written waiver of the pertinent Specification, nor shall it relieve him from responsibility for errors of any sort in Shop Drawings.

PART 4 - PROTECTION OF WORK AND MATERIALS

- 4.1 The Contractor shall protect all work, equipment and materials from deterioration and damage. All work of whatever kind, which during its progress or before the final acceptance of the work as established by the Engineer's Certificate of Completion may have become damaged from any cause, shall be removed and replaced by good and satisfactory work, and at no additional cost to the Owner, both for labor and materials.

PART 5 - CHANGED CONDITIONS

- 5.1 If, during the progress of the work, the Contractor or the Owner discovers that the actual sub-surface or latent physical conditions encountered at the site differ substantially or materially from those shown on the plans or indicated in the Contract Documents either the Contractor or the Owner may request an equitable adjustment in the Contract Price of the Contract applying to work affected by the differing site conditions. A request for such an adjustment shall be in writing and shall be delivered by the party making such claim to each other party as soon as possible after such conditions are discovered. Upon receipt of such a claim from a Contractor, or upon its own initiative, the Owner will make an investigation of such physical conditions, and, if they differ substantially or materially from those shown on the plan or indicated in the Contract Documents and are of such a nature as to cause an increase or decrease in the cost of performance of the work or a change in the construction methods required for the performance of the work which results in an increase or decrease in the cost of the work, the Owner will make an equitable adjustment in the Contract Price and the Contract will be modified in writing accordingly.
- 5.2 Any adjustment in compensation and/or any adjustment in Contract time because of any changes resulting from one or more of the conditions described in the foregoing paragraph will be made in accordance with the provisions of ARTICLE VII - ALTERATIONS OF WORK contained within the General Conditions.

PART 6 - SUPERINTENDENCE, SKILLED LABOR, AND EMPLOYEES

- 6.1 The Contractor shall employ qualified personnel for scheduling all materials and equipment to be used in the Project and for preparation of suitable working drawings. The Contractor shall employ a suitable superintendent and foremen to represent him at all the several parts of the work and they shall be present at all times while the work entrusted to them is in progress and shall be informed thoroughly regarding it. The foremen, workers, and others employed by the Contractor shall be skilled and experienced in the particular work which is given them to do.

PART 7 - FIRE PROTECTION

- 7.1 The Contractor shall take all necessary precautions to prevent fires adjacent to the work and it shall prevent the spread of fires to areas outside the limits of the work. It shall provide adequate facilities for extinguishing fires.

PART 8 - USE OF PORTIONS BEFORE ENTIRE COMPLETION OF WORK

- 8.1 The Owner and its duly authorized representative may enter upon and use any portions of the work for the Owner's benefit before final completion of the whole work to be done under this Contract, without any claim by the Contractor for payment for said use, or for any damage for delay caused by such use.

PART 9 - MASSACHUSETTS SALES TAX EXEMPTION

- 9.1 Materials for use in the work under this Contract are exempt from the Massachusetts Sales Tax. The Tax Exemption number shall be provided.

PART 10 - ANTI-DISCRIMINATION CLAUSE

- 10.1 In connection with the performance of work under this Contract, the Contractor agrees not to discriminate against any employee or applicant for employment because of race, color, religious creed, national origin, age or ancestry. The aforesaid provision shall include but not be limited to the following: employment upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; conditions or privileges of employment; and selection for training, including apprenticeship. The Contractor agrees to 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 practice law of the Commonwealth. The aforesaid provision shall be binding upon all subcontractors, except subcontractors for standard commercial supplies or raw materials.

PART 11 - COORDINATION OF WORK BY OTHERS

- 11.1 Before beginning any portion of the work, the Contractor shall give the Engineer due notice and ample time for making it necessary preparations.
- 11.2 Work performed under this contract shall be coordinated with the following parties throughout the duration of the contract: City of Gloucester and Engineer.

PART 12 - MISPLACED MATERIALS

- 12.1 Should the Contractor during the progress of the work, lose, dump, sink, or misplace any material, plant, machinery, or appliance, which in the opinion of the Engineer or Owner is unsatisfactory, the Contractor shall recover and remove the same with the utmost dispatch.
- 12.2 If such material must be removed by the Owner, the cost of such removal may be deducted from any money due the Contractor or may be recovered under its bond.

PART 13 - WAGE RATES

- 13.1 All construction work will be governed by the prevailing Minimum Wage Rates established for this project as determined by the commissioner of the Massachusetts Department of Labor and Industries pursuant to M.G.L.C. 149, Sections 26 and 27, and Davis Bacon Wage Rates, refer to Attachment A.

PART 14 - CONTRACT AND REFERENCE DRAWINGS

- 14.1 The work shall conform to the Contract Drawings.

END OF SECTION

TECHNICAL SPECIFICATIONS

SECTION 01000	General Requirements
SECTION 02002	Mobilization and Demobilization
SECTION 02200	Earthwork
SECTION 02300	Revetment Construction
SECTION 02500	Landscaping and Site Improvements
SECTION 03300	Concrete

SECTION 01000

GENERAL REQUIREMENTS

PART 1 - GENERAL

1.1 WORK COVERED BY CONTRACT DOCUMENTS

- A. The work under this contract consists of repairs to the existing storm-damaged Cressy Beach Revetment, in Gloucester, Massachusetts as described on the Contract Drawings and in the Specifications herein.
- B. The project is partially funded by FEMA, and the costs of the work are tracked by three separate categories, FEMA In-Kind Work, FEMA Hazard-Mitigation Work, and Non-FEMA Scope Work. Throughout these Contract Documents (including pay items), “HM” indicates Hazard-Mitigation Work, and “NF” indicates Non-FEMA Scope Work. Additionally, FEMA previously identified separate work sections of the Cressy Beach Revetment as “Site 2” and “Site 3”, so these are identified and tracked throughout the Contract Documents. “Site 1” is not referenced or part of this project.
- C. The work includes, but is not limited to, all survey, supervision, labor, materials, tools and equipment, safety, quality control, and mobilization and demobilization necessary to perform the following:
 - 1. Mobilization of equipment and materials to the site.
 - 2. Furnish and install DEP file number signage at the site.
 - 3. Install and maintain temporary pedestrian and vehicular traffic barriers including but not limited to fencing, traffic cones, or concrete barriers, as required; to delineate, and secure areas of construction activity.
 - 4. Install temporary erosion and sedimentation controls including, but not limited to, straw wattles, silt fencing, and silt sacks, as applicable and as required.
 - 5. Revetment repair and reconstruction work including resetting existing and supplemental revetment armor stone; re-grading and subgrade preparation; placement, grading, and compaction of subbase fill; installation of new geotextile filter fabric; and installation of new bedding stone below the revetment armor stone.
 - 6. Upper slope/ bank repair/ restoration work including placement, grading, and compaction of subbase fill; placement of vegetative support fill; seeding and installation of vegetated buffer plantings and new trees; and maintenance and protection of plantings.
 - 7. Installation of outfall pipe extensions to the face of the repaired revetment slope.
 - 8. Removal of existing concrete pads, installation of new relocated concrete pads, and resetting existing tables at the new concrete pads.
 - 9. Protection and in-kind restoration of site features to remain.
 - 10. Complete incidental site work.
 - 11. Complete site, laydown areas, and Contractor’s access location restoration and demobilization.

GENERAL REQUIREMENTS

1.2 RELATED SECTIONS

- 02002 MOBILIZATION AND DEMOBILIZATION
- 02200 EARTHWORK
- 02300 REVETMENT CONSTRUCTION
- 02500 LANDSCAPING AND SITE IMPROVEMENTS
- 03300 CONCRETE

1.3 CONTRACTOR USE OF SITE AND ACCESS

- A. All work and trucking shall occur from 7:00 AM to 5:00 PM, Monday through Friday. No work will be permitted on weekends or Holidays, except as approved or required by the Owner.
- B. Site access shall be predominantly from along Hough Avenue with temporary access and staging within Stage Fort Park and temporary equipment access along the beach adjacent to the structure. Temporary beach access will be from the existing revetment opening at Cressy Beach.
- C. Material storage and Contractor staging areas will be kept to a minimum and coordinated with the City. Equipment location, access, staging areas, and limits to be coordinated with the Owner.
- D. The Contractor shall coordinate equipment, staging, deliveries, and other site usage with the Owner. Equipment, materials, or other items shall be stored such that they will be protected from rising water when not being utilized.
- E. The Contractor shall minimize the disturbance to the existing beach shoreline, vegetated areas, adjacent structures, walls, revetments, utilities, walkways, roads, driveways and parking areas, public park, landscaped areas, or other miscellaneous site features.
- F. The Contractor shall restore temporary site access and staging locations to their pre-construction condition to the satisfaction of the Engineer and the Owner.
- G. The Contractor shall repair, at its own expense, any damage caused to the property; remove from the site all debris, excess materials, tools, and equipment; and shall leave the premises in a neat and orderly condition, to the satisfaction of the Engineer and the Owner.
- H. The Contractor shall notify "Dig Safe" and local utilities and services as applicable prior to commencement of any work. The Contractor shall also coordinate with the Owner for locations of utilities. The Contractor shall protect existing services against damage for the duration of the work.
- I. If the Contractor, in the course of work, uncovers or otherwise encounters any artifacts, whether historic or prehistoric, the Contractor shall notify the Engineer immediately and stop all work in that vicinity until directed by the Engineer.
- J. If the Contractor, in the course of excavation, uncovers or otherwise encounters any suspected hazardous or unidentified substances, the Contractor shall notify the Engineer immediately and stop all work in that vicinity until directed by the Engineer.

GENERAL REQUIREMENTS

- K. The Contractor shall coordinate temporary roadway closures and re-routing with the Engineer and Owner. The Contractor shall obtain governing authority's written permission, when required, to close or obstruct streets, walks and adjacent facilities. Provide alternate routes around closed or obstructed traffic ways, when required by governing authorities.

1.4 DELIVERY OF MATERIAL AND EQUIPMENT

- A. The Contractor shall determine appropriate route for delivery of materials and equipment to the project site. The Contractor shall verify with governing agency, and conform to, restrictions and load limitations along proposed hauling routes. Contractor to submit documentation that the hauling route and method of delivery meet restrictions and load limits, as applicable. The Contractor shall coordinate equipment, staging, deliveries, and other site usage with the Owner.

1.5 CONSTRUCTION SCHEDULES AND SUBMITTALS

- A. Unless otherwise specified, within ten (10) calendar days from the Notice to Proceed, the Contractor shall submit to the Engineer a complete schedule of values for all items that shall be paid for under this Contract. This schedule of values shall show all relative costs to the item as bid, such as the costs of material, labor, mobilization and demobilization, survey and all incidentals to the item.
- B. Contractor shall also provide a complete breakdown of all items that shall be paid for under this Contract, including Lump Sum items. This breakdown shall show all relative costs to the item as bid, such as the costs of material, labor, delivery, inspection, and all incidentals to the item.
- C. Contractor shall submit a list of equipment to be used on the site, including but not limited to: crane, excavator, backhoe, dump-truck, skid steer and other land-based equipment required to complete the work.
- D. The Contractor shall submit to the Engineer a construction project schedule within ten (10) calendar days before the start of construction. The Construction schedule shall be maintained on site for review during site meetings. If a major change is made to the schedule, the updated schedule shall be submitted to the Engineer immediately. Should the Contractor find that they cannot maintain the schedule as originally intended, Contractor shall immediately submit a revised schedule without being requested to do so by the Owner or Engineer.
- E. Contractor shall submit a work plan procedure detailing sequences of operations including positioning of equipment and materials, both during work and off-hours.
- F. The Contractor shall submit to the Owner for approval, their plan for project survey control within seven (7) days of the notice to proceed and before actual work commences on the project site.
- G. The Contractor shall be required to coordinate delivery of materials under this contract with the Owner and the Engineer. Contractor shall be required to provide periodic schedule updates for coordinating deliveries.
- H. The Contractor shall submit shop drawings, product data, and information as required by sections of these Specifications and Contract Documents.

- I. Contractor shall submit a temporary erosion and sediment control plan and temporary barrier, fencing and signage plan showing the limits for approval.
- J. Contractor shall install a DEP file number sign at the entrance to the site.

1.6 DATUM

- A. Vertical datum used for this project is North American Vertical Datum of 1988 (NAVD88). A conversion between NAVD88 and Mean High Water (MHW) and Mean Low Water (MLW) is shown on the Drawings.
- B. This project involves tidal work. Bidders are advised to consult the Tide Tables issued by National Oceanic and Atmospheric Administration (NOAA) in order to schedule and evaluate tidal conditions affecting work.

1.7 TECHNICAL SPECIFICATIONS/PUBLICATIONS

- A. For all items within this Contract without specific technical specifications and/or publications denoted, and to supplement all conditions of this Contract above and beyond all references mentioned, refer to the Commonwealth of Massachusetts, Department of Transportation, Standard Specifications for Highways and Bridges, current edition, and all amendments, which is herein made part of this Contract in its entirety.

1.8 INSPECTIONS

- A. The Owner will assign an inspector and/or resident engineer to this project on either a full-time or part-time basis, as required to observe the work under this Contract. The inspector or resident engineer shall be the Owner's Representative for this project, herein referred to as "Engineer".
- B. The Engineer must be notified at least 48 hours in advance of all material deliveries to arrange for the deliveries to be inspected as they arrive to the site.
- C. All materials or equipment that are not suitable for use on this project and/or have been rejected by the Engineer shall be removed from the site immediately. The cost for removal of unsuitable and/or rejected materials shall be the responsibility of the Contractor.
- D. The Engineer shall be allowed at all times to check the lines, grades, elevations, reference marks, batter boards, etc. set by the Contractor. Any errors or discrepancies in these items discovered by checks shall be corrected by the Contractor. Such checks shall not be construed to be an approval of the Contractor's work and shall not relieve or diminish in any way the responsibilities of the Contractor for the accurate and satisfactory completion of the entire work. The Contractor shall be available to assist the Engineer with these checks as needed.

1.9 PHOTOGRAPHS

- A. The Contractor shall, at its own expense, furnish the Engineer with digital color photographs and/or videos of the project site and surroundings. Photographs/videos shall be scheduled during such times and such periods of weather that reveal as many site features as possible. The photographs/videos shall be taken with a digital camera and electronic files of each photograph shall be furnished to the Engineer.

- B. The Contractor shall complete pre-construction photographs/videos of the project site, storage area and surroundings to document the pre-construction conditions. The photographs/videos shall document the work areas to fully document existing conditions and areas which may be impacted by construction activity.
- C. The Contractor shall complete photographs/videos as work progresses along the limit of work. Photographs/videos shall be taken before commencing work, during each stage of operations, and after completion of work.

1.10 QUALITY CONTROL AND WORKMANSHIP

- A. Maintain quality control, equipment, services, site conditions, and workmanship, to produce work of specified quality.
- B. Comply with industry standards except when more restrictive tolerances or specified requirements indicate more rigid standards or more precise workmanship.
- C. Perform work by experienced persons qualified to produce workmanship of specified quality.

1.11 CONSTRUCTION FACILITIES

- A. Provide and maintain temporary sanitary facilities as required.
- B. Contractor shall provide on-site phone service, or other telephone facilities such that the Contractor can be reached at any time throughout the workday.
- C. Contractor shall provide phone numbers for communication and emergency contact during off work hours.

1.12 PERMITS AND MITIGATION MEASURES

- A. Environmental permits and/or licenses are included under the Attachments to these Contract Documents. It is the Contractor's responsibility to adhere to the conditions set forth in the permit documents.
- B. It is the responsibility of the Contractor to obtain all other permits, inspections and all other requirements not issued within this Specification necessary to complete the work under this Contract, including building permits; the cost of all fees associated with these permits, inspections and other requirements shall be borne by the Contractor.
- C. The Contractor shall comply with all applicable local, state and federal requirements, as well as standard industry standards and practices, regarding materials, methods of work and disposal of excess and waste materials.
- D. The Contractor shall provide DEP Wetland project signs in conformance with the Order of Conditions and maintain copy of the Order of Conditions, and other permit documents, on-site at all times.
- E. Prior to the commencement of work there must be a pre-construction meeting on site between the Engineer, Contractor, and Conservation Agent or a member of the Conservation Commission.

1.13 SURVEY CONTROL

- A. The Contractor shall locate, protect, and maintain benchmarks, monuments, control points and project engineering reference points.
- B. The Contractor shall provide, at its own expense, all materials and labor as may be required to establish and maintain all project control range lines, additional reference marks and line and grade stakes. The Contractor shall maintain the project control throughout the duration of the project, at the Contractor's own expense.
- C. The Contractor shall provide pre- and post-construction topographic survey and corresponding plans. The pre- and post-construction topographic survey plans shall fully document the existing conditions of work areas and areas which may otherwise be impacted by construction activity, including areas used for construction personnel and equipment access, contractor staging, laydown, and storage. The pre-construction topographic survey plans shall be completed and submitted to the Owner and Engineer for review prior to the start of site disturbing activity. The post-construction topographic survey plans shall be completed and submitted to the Owner and Engineer for review after restoration work and prior to requests for final payment and shall include the Contractor's certification of substantial completion of work.
- D. All work shall conform during its progress and on its completion to the lines and grades given by the Contract Documents and as specified herein. The work shall be done in a thoroughly substantial and workmanlike manner, in accordance with the Contract Drawings, these specifications, and as directed by the Engineer.
- E. The Contractor shall make, check and be responsible for all measurements and dimensions necessary for proper construction.
- F. The Contractor shall provide an as-built survey of the work for review by the Engineer prior to demobilization.

PART 2 - MATERIALS

Not Used

PART 3 - EXECUTION

Not Used

PART 4 - MEASUREMENT AND PAYMENT

4.1 GENERAL

There shall be no separate measurement of quantities or payments for work covered by this Section.

Services, materials, sanitary facilities, fencing, barriers, signage, survey control, and all other work associated with implementation of work specified in the General Conditions, Special Conditions, General Requirements, or not included under Contract items shall be included for payment under 02002-1 MOBILIZATION AND DEMOBILIZATION.

END OF SECTION

GENERAL REQUIREMENTS

01000 - 6

SECTION 02002
MOBILIZATION AND DEMOBILIZATION

PART 1 - GENERAL

1.1 WORK INCLUDED

- A. Work under this section shall consist of the Contractor's preparatory work and operations, including but not limited to those necessary for the movement of personnel, equipment, supplies, and incidentals to and from the project site, including access, restoration of site and adjacent properties affected by the Contractor operations, for the establishment of the Contractor's supervisory facilities necessary for work on the project, and all other work and operations which must be performed, or for costs which must be incurred prior to beginning work. Access, temporary construction facilities, and submittal items shall be in accordance with the requirements of the applicable sections of the Contract and as shown on the Contract Drawings.
- B. The project includes, but not is not limited to, the following:
1. Mobilization of equipment and materials to the site.
 2. Furnish and install DEP file number signage at the site.
 3. Install and maintain temporary pedestrian and vehicular traffic barriers including but not limited to fencing, traffic cones, or concrete barriers, as required; to delineate, and secure areas of construction activity.
 4. Install temporary erosion and sedimentation controls including, but not limited to, straw wattles, silt fencing, and silt sacks, as applicable and as required.
 5. Revetment repair and reconstruction work including resetting existing and supplemental revetment armor stone; re-grading and subgrade preparation; placement, grading, and compaction of subbase fill; installation of new geotextile filter fabric; and installation of new bedding stone below the revetment armor stone.
 6. Upper slope/ bank repair/ restoration work including placement, grading, and compaction of subbase fill; placement of vegetative support fill; seeding and installation of vegetated buffer plantings and new trees; and maintenance and protection of plantings.
 7. Installation of outfall pipe extensions to the face of the repaired revetment slope.
 8. Removal of existing concrete pads, installation of new relocated concrete pads, and resetting existing tables at the new concrete pads.
 9. Protection and in-kind restoration of site features to remain.
 10. Complete incidental site work.
 11. Complete site, laydown areas, and Contractor's access location restoration and demobilization.
- C. The Contractor is advised to pay particular attention to weather forecasts for the area. The Contractor shall make provisions for contingencies to deal with inclement weather, the cost of which shall be incidental to other pay items, except as noted herein. The Contractor may have to demobilize from the site on a temporary basis due to weather. Prior to leaving the site, the Contractor shall take such steps as are necessary to protect completed work and work in progress and to remove all equipment and

materials from potentially affected areas. The Contractor shall be responsible for any loss or damage to work completed, work in progress, equipment, or material. The Contractor shall remobilize to the site at no additional cost to the Owner. Remobilization shall include all effort required to restart the work.

1.2 RELATED SECTIONS

- 01000 GENERAL REQUIREMENTS
- 02220 EARTHWORK
- 02300 REVETMENT CONSTRUCTION
- 02500 LANDSCAPING AND SITE IMPROVEMENTS
- 03300 CONCRETE

PART 2 - MATERIALS

2.1 GENERAL

Materials will be as required and as specified in other sections.

PART 3 - EXECUTION

3.1 SUBMITTALS

- A. Submit a schedule of the equipment the Contractor will employ in the performance of the work under this Contract. Contractor shall submit documentation on all proposed crane, excavator, and other equipment intended for use on the project.
- B. Submittal for other work shall be in accordance with Section 01000 GENERAL REQUIREMENTS or under appropriate sections.

3.2 EQUIPMENT

- A. The Contractor shall keep on the job sufficient equipment to meet the requirements of the work. The equipment shall be in satisfactory operating condition and be capable of safely and efficiently performing the work. The equipment shall be subject to inspection by the Engineer at all times.
- B. Prior to commencement of work at the site, the Contractor shall make available to the Engineer for review, copies of all applicable inspections and certifications of equipment as required by Federal, State, and local laws and regulations. Such inspections and certifications shall be current and maintained in force for the duration of this contract. Each item of equipment shall have on board a spill kit and waste oil management plan which details the intended disposal method for waste oil.
- C. Contractor shall demonstrate in a work plan that the above equipment is capable of performing the work to the limits as indicated on the Contract Drawings.
- D. Should equipment used not be capable of performing the work as intended, Contractor will provide alternative equipment that is capable of performing the work as intended at no extra cost to the Owner.

3.3 SITE PREPARATION, COORDINATION AND RESTORATION

- A. Contractor shall provide site access as required for the transport of materials, personnel, and equipment to the project sites.
- B. Site access shall be predominantly from along Hough Avenue with temporary access and staging within Stage Fort Park and temporary equipment access along the beach adjacent to the structure. Temporary beach access will be from the existing revetment opening at Cressy Beach.
- C. Material storage and Contractor staging areas will be kept to a minimum and coordinated with the City. Equipment location, access, staging areas, and limits to be coordinated with the Owner.
- D. Contractor shall remove all materials used for access and restore to pre-construction condition all access areas, material and equipment storage areas, and areas disturbed in and around the project site during construction.
- E. Excess materials shall be removed from the site and become the property of the Contractor, unless otherwise directed by the Owner. Excess imported material shall be measured and deducted from payment quantities under the appropriate items, as established by the Engineer.
- F. Contractor shall provide measures to prevent materials from entering the Ocean or other bodies of water.

PART 4 - MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. Mobilization and demobilization shall be measured as a lump sum with the percentage of mobilization and demobilization complete measured by the Engineer, as indicated on the bid form. Total payment under this item 02002-1 shall be less than ten percent (10%) of the total contract amount bid.
- B. Following completion of mobilization, the Contractor may invoice sixty percent (60%) of the lump sum bid price. Following satisfactory completion of all work, the Contractor may invoice the remaining forty percent (40%) of the lump sum bid price.

4.2 PAYMENT

- A. Payment for Mobilization and Demobilization, under Item 02002-1 shall be per the percentage of mobilization and demobilization complete for the site, which shall include mobilization and demobilization of all material, equipment including the Contractor's temporary facilities, site access, labor, transportation, supervision, survey, submittals and other incidental or appurtenant work required to complete mobilization and demobilization as shown on the Contract Drawings, as specified herein, and as directed by the Engineer.
- B. No payment shall be made for any necessary temporary demobilization and remobilization due to inclement weather.

4.3 PAYMENT ITEMS

ITEM	DESCRIPTION	UNIT PRICE
02002-1	MOBILIZATION AND DEMOBILIZATION	Lump Sum

END OF SECTION

SECTION 02200
EARTHWORK

PART 1 - GENERAL

1.1 WORK INCLUDED

- A. The Contractor shall provide all labor, equipment, materials, tools and accessories to complete the work in this section. This work includes, but is not necessarily limited to, excavation, shoring, subgrade preparation, placement, backfilling, and compacting of soil and crushed stone for all associated work and any incidental items, as indicated on the Contract Drawings and specified herein.
- B. The Contractor shall protect or restore existing site features that abut the work scheduled to remain.

1.2 RELATED SECTIONS

- 01000 GENERAL REQUIREMENTS
- 02002 MOBILIZATION AND DEMOBILIZATION
- 02300 REVETMENT CONSTRUCTION
- 02500 LANDSCAPING AND SITE IMPROVEMENTS
- 03300 CONCRETE

1.3 REFERENCES

- A. References herein to any technical society, organization, group, or body are made in accordance with the following abbreviations and, unless otherwise noted or specified, all work under this Section shall conform to the latest edition as applicable:
 - 1. American Society for Testing and Materials (ASTM), latest edition
 - 2. Commonwealth of Massachusetts, Department of Transportation, Standard Specifications for Highways and Bridges, current edition, and all amendments
 - 3. International Building Code (IBC), latest edition
 - 4. Massachusetts State Building Code, latest edition

1.4 SUBMITTALS AND SAMPLES

- A. Contractor shall submit documentation for the source for furnishing all supplemental fill material. It is the Contractor's responsibility to determine that the source selected can provide the quality and quantities needed at the rate needed to maintain the project schedule. If a source for fill material is not accepted for use by the Engineer, the Contractor shall propose other sources. Approval of submitted samples, sources, or quarries shall not be construed as a waiver by the Engineer of the right to reject any material that does not comply with the requirements noted herein after.
- B. Contractor shall submit documentation of sieve analysis for each type of proposed fill material to the Engineer for conformance with requirements specified herein.
- C. Contractor shall record each delivery of supplemental fill material to the project. Quantity of fill materials shall be provided in units of cubic yard, unless otherwise directed.

- D. Delivery slips for fill material shall be submitted to the Engineer and Owner for each delivery of fill to the site. The Contractor shall maintain a running tally of daily cubic yardage and cubic yardage to date. Updated quantity tally shall be submitted to the Engineer and Owner daily.
- E. Contractor shall not order materials until the Engineer's review of submittals has been obtained.

1.5 UTILITIES AND PROTECTION

- A. The Contractor shall locate and mark active underground utility lines before commencing work. Utility services to remain shall be protected from damage and shall be plotted on the Record Plans by the Contractor. Utilities which are not active shall be protected or properly removed as directed by the Engineer and the Owner. Existing utilities shall not be interrupted except when authorized in writing both by the Engineer and by authorities having jurisdiction.
- B. Excavated areas shall be kept free from water, snow and ice during construction. Pumping operations shall be performed should surface rain or groundwater be encountered during construction. Sheeting, shoring and trench boxes shall be of proper strength and shall be placed where necessary to prevent caving, erosion or gullyng of excavation sites.

PART 2 - PRODUCTS

2.1 FILL MATERIALS

- A. All off-site fill materials brought to the site shall be free of contaminants. The Contractor shall submit environmental testing results to show that imported soil does not contain detectable concentrations of VOCs, PCBs, or TPH, with the maximum allowable detection limits consistent with published Reportable Concentrations for Soil Categorized as RCS-1 (subpart P of 310 CMR 40.0000), and does not contain metals or polyaromatic hydrocarbons (PAHs) at concentrations above background levels for natural soils, as published by the Massachusetts Department of Environmental Protection. As a minimum, unless otherwise waived by the Owner, environmental testing shall include total petroleum hydrocarbons (TPH) by ASTM D3328/EPA Method 8100, PCBs by EPA Method 8082, semi-volatile organic compounds (semi-VOCs) by EPA Method 8270, VOCs by EPA method 8260, and MCP 14 metals by EPA Methods 6010/7471A. Testing is not required for crushed stone provided material supplier provides origin of material, certifies the crushed stone is virgin rock crushed to specification.
- B. Common Fill/Ordinary Borrow shall be friable soil containing no stone greater than two-thirds ($\frac{2}{3}$) the loose lift thickness with a maximum stone size of twelve (12) inches in diameter. The material shall be essentially free of trash, ice, snow, tree stumps, roots, organic materials, and other deleterious matter. The soil shall contain no more than 30% passing the No. 200 sieve. Some of the on-site fill may meet the gradation requirements for Common Fill, providing it can be placed and compacted as specified herein. Use of excavated on-site fill as Common Fill will require careful segregation during excavation and moisture control prior to and during placement.
- C. Sandy Silt Fill shall consist of a sandy silt material compatible with existing subsoils. It shall be free from trash, ice, snow, tree stumps, roots, organic materials and other deleterious materials. Gradation shall conform to the following:

Sandy Silt Fill

U.S. Sieve No.	Percent Passing by Weight
----------------	---------------------------

6"	100
2"	95-100
3/8"	85-100
#10	70-100
#40	50-95
#100	30-80
#200	4-40

- D. Existing Fill to be used as backfill shall be in accordance with Sandy Silt Fill. It shall have physical properties such that it can be readily spread and compacted during filling. It is anticipated that existing material will be used as backfill. In the event it is determined the backfill material is unsuitable; the Contractor shall provide suitable backfill material in accordance with fill materials outlined herein.
- E. Vegetative Support Fill shall consist of a 50/50 mix of Loam and Gravel Borrow.
1. Loam shall consist of existing or imported friable soil obtained from naturally well-drained areas or shall be the product of a commercial sand and gravel processing facility. It shall be uncontaminated by salt water, foreign matter, or substances harmful to plant growth. Loam shall be free of debris, rocks, clods, stumps, roots, building materials, trash, and any other extraneous matter. Loam shall be free of quackgrass rhizomes (*Agropyron repens*) and the nut-like tubers of nutsedge (*Cyperus esculentus*). It is anticipated that loam stripped from the limits of work as indicated on the drawings and herein will be suitable and sufficient for the work.
 - a. Loam shall contain 4% to 10% organic matter as determined by the loss on ignition of oven-dried samples.
 - b. Salinity (electrical conductivity) shall be less than 0.1 S/m as determined by a 1:2 (by volume) soil-to-water mix. Salt test samples shall not be oven-dried.
 - c. Loam acidity range shall be pH 5.5 to 7.0.
 - d. Loam shall otherwise conform to MassDOT Specification M1.05.0. Loam for Lawns shall have no material greater than ½ inch in diameter. Gradation requirements shall conform to the following.

(MassDOT Spec. M1.05.0)

U.S. Sieve No.	Percent Passing by Weight
#10	85-100
#40	35-85
#200	10-35

Maximum size of stone shall be ½ inch in diameter

2. Gravel Borrow shall consist of inert material that is hard, durable stone and coarse sand, free from trash, ice, snow, tree stumps, roots, organic materials, loam and clay, surface coatings, and other deleterious materials. Gradation requirements shall conform to the following:

(MassDOT Spec. M1.03.0, Type C)

U.S. Sieve No.	Percent Passing by Weight
1/2"	50-85
#4	40-75
#50	8-28
#200	0-10

Maximum size of stone shall be two inches (2") largest dimension

2.2 USE OF MATERIALS

- A. Use of materials shall be as described below and as shown on the plans. Further details can be found in the Contract Drawings. Combinations or layering of materials may be necessary in certain instances.
- B. Common Fill/ Ordinary Borrow: Use Common Fill/Ordinary Borrow for general grading, as backfill or fill in areas outside of the revetment repair template, outside of Sandy Silt Fill or Vegetative Support Fill areas, except where different materials are specified, as indicated on the Contract Drawings, and as indicated by the Engineer.
- C. Sandy Silt Fill: Use as backfill or fill below or outside of the revetment repair template, as indicated on the Contract Drawings, and as indicated by the Engineer.
- D. Existing Fill: Use to backfill excavations below or outside of the revetment repair template, where Common Fill or Sandy Silt Fill is specified (provided it that the Existing Fill meets the specified requirements of Common Fill or Sandy Silt Fill), as indicated on Contract Drawings, and as indicated by the Engineer.
- E. Vegetative Support Fill: Use as the top layer of fill for the vegetated buffer planting area, as indicated on the Contract Drawings, and as indicated by the Engineer.

2.3 TEMPORARY PROTECTIVE COVERING

- A. Contractor shall provide protective covering over subgrade prior to loam placement and vegetative plantings. The erosion protection blankets shall be for temporary application and shall be biodegradable and non-toxic. Materials such as jute, coir fiber, and mattresses with straw matrices are judged acceptable, provided no other unsuitable material is included. All erosion control products should be new and previously unused and free of weed and other undesirable seeds. Erosion control shall be placed landward of the reconstructed revetments where slopes are one foot vertical to four foot horizontal, or steeper.

PART 3 - EXECUTION

3.1 GENERAL

- A. Contractor shall maintain, and stockpile excavated and delivered fill material in a safe, approved manner in accordance with all environmental requirements for the project and to protect existing structures and work. See Section 01000- General Requirements for additional coordination requirements.

- B. Contractor shall schedule work and deliveries to avoid impact to park users, abutters, and local traffic. The Contractor shall conform to all applicable federal, state, and local requirements regarding the handling, delivery and installation of fill material.
- C. Contractor shall order new fill to supplement existing fill, based on conditions encountered. Prior to ordering new fill, the Contractor shall recover existing fill to enable the Engineer and Contractor to evaluate the type and quantity of new fill for the project.
- D. Contractor shall coordinate excavation and backfilling work during favorable weather conditions and at times when tidal water will not affect the work. No work shall be performed during storm conditions. Contractor to make provisions as necessary to control water during construction.
- E. Contractor shall mechanically mix Vegetative Support Fill such that it consists of 50% (by volume) Loam and 50% Gravel Borrow.

3.2 EXCAVATION

- A. Contractor shall excavate the existing soils or fill to the dimensions and elevations shown on the Contract Drawings, or as necessary to install the various components of the work.
- B. Contractor shall separate excavated materials as suitable and unsuitable for backfill, as approved by the Engineer. Existing Loam shall be stripped and stockpiled for reuse in landscaped areas. Unsuitable material shall be immediately removed from the site. All material removed from the site shall be disposed of legally. Suitable material taken from excavations shall be stockpiled for future backfilling within the staging areas as indicated on the Contract Drawings or as directed by the Engineer.
- C. Contractor shall maintain project benchmarks for horizontal and vertical control of excavations and backfilling.
- D. Suitable material for backfilling shall meet the requirements of the fill materials specified in these Contract Documents. Soils with significant fines content, organic material, deleterious or other objectionable material will not be allowed as backfill.
- E. Excavated material shall not be deposited or piled to cause excessive settlement or endanger portions of any new or existing structures, such as surcharge loading of bulkheads or walls.
- F. Unsuitable soil or materials found during excavation shall be removed, as determined in the field by the Engineer. The Engineer shall be present during excavation of unsuitable soil or materials to verify the volume of material removed. Grades will be restored with approved fill as directed by the Engineer.
- G. Contractor shall take appropriate measures to shore the walls of the excavation when necessary, particularly when made within the intertidal zone or adjacent to features to remain. Excavations shall be in accordance with current OSHA standards.
- H. Contractor shall protect any open excavation with poly tarp or approved geotextile fabric to avoid erosion of material.
- I. Contractor shall follow a construction procedure that allows visual identification of the bearing soils. In the event that groundwater is encountered, the Contractor shall limit the excavation size such that the

water can be handled by the Contractor's chosen method of dewatering, allowing visual observation of the excavation bottom by the Engineer, and allowing backfill to be placed in the dry.

- J. Contractor to keep excavations to a minimum.

3.3 INSPECTION

- A. Contractor shall verify that stockpiled fill to be reused has been approved by the Engineer.
- B. Before backfilling, the Contractor shall verify that drainage and utility installation has been inspected.
- C. Prior to backfilling, the Contractor shall verify that areas to be backfilled are free of debris, snow, ice, or water, and that ground surfaces are not frozen.

3.4 PREPARATION

- A. Proof-rolling: Compact subgrade surfaces to density requirements for fill or backfill material, as specified herein.
- B. Cut out soft areas not readily capable of in-situ compaction. Backfill with Common Fill and compact to density equal to requirements for subsequent backfill material.

3.5 FILLING AND BACKFILLING

- A. Suitable excavated material may be used for backfilling. Suitability of materials shall be determined by the Engineer. Such use of excavated materials may include stockpiling until needed.
- B. All unsuitable material shall be removed from the site. The Contractor shall be wholly responsible for the disposal of such excavated material at an approved disposal area. Such disposal shall be in strict compliance with all Local and State rules, regulations, ordinances and laws which regulate and control its disposal.
- C. Fill or backfill areas to the contours and elevations as shown on the Contract Drawings. Use unfrozen materials.
- D. Backfill systematically, as early as possible, to allow maximum time for natural settlement. Do not backfill over porous, wet, or spongy subgrade surfaces.
- E. Compact all materials by mechanical means. Employ a placement method so not to disturb or damage drainage pipes and utilities in trenches.
- F. Maximum thickness of loose lift to be eight (8) inches unless approved by the Engineer.
- G. Maintain optimum moisture content (+/- 2%) of backfill materials to attain required compaction density.
- H. Make changes in grade gradual. Blend slopes into level areas.
- I. Place stone in a manner that will avoid segregation of particles and will provide a smooth surface and will not damage the underlying geotextile filter fabric. Stone shall not be dumped. Lifts of crushed stone shall be gently tapped with excavator bucket or plate compactor.

- J. Place surplus backfill materials as directed by the Engineer. Leave stockpile areas completely free of excess fill materials.
- K. Do not place, spread, or roll any fill material during unfavorable weather conditions. Do not resume operations until moisture content and fill density are satisfactory to the Engineer.
- L. Where soil has been softened or eroded by flooding or placement during unfavorable weather, remove all damaged areas and recompact as specified for fill and compaction below, at no additional cost to the Owner.

3.6 TEMPORARY PROTECTIVE COVERING

- A. Contractor shall place soil coverings to control erosion and sedimentation to the subgrade prior to loam placement and vegetative plantings. Erosion control shall be placed landward of the reconstructed revetments where slopes are one foot vertical to four foot horizontal, or steeper.
- B. The area to receive covering to be uniformly graded and free of stones, clods, sticks or depressions.
- C. Provide overlap per manufacturer's recommendation, but not less than 2 foot.
- D. Provide anchoring per manufacturer's recommendation, based on the existing site conditions, and potential runoff and over wash from wave impacts until final loam and plantings have been installed.
- E. Contractor shall maintain and repair coverings as required.

3.7 FIELD QUALITY CONTROL

- A. All field quality control of earthwork shall be provided by the Contractor's approved Independent Testing Laboratory at no additional expense to the Owner. All field and laboratory quality control work shall be considered incidental to the Work of this Section.
- B. Gravel Borrow shall be compacted to 95% (minimum) of the **Modified** Proctor Test, ASTM D1557 (Method C).
- C. Common Fill, Sandy Silt Fill, and Existing Fill shall be compacted to 95% (minimum) of the **Standard** Proctor Test, ASTM D1557.
- D. Crushed Stone shall be compacted to an unyielding surface.
- E. The Engineer shall observe the placement of all fill material. They shall be provided with the results of tests by the Contractor's Independent Testing Lab or make such observations as are judged necessary to render an opinion as to whether the materials used and compaction effort provided are appropriate to meet the intent of the specifications.
- F. The Engineer shall judge achievement of the compaction standards both by visual observation of compaction effort and success or through the Contractor's Independent Testing Lab's use of in-place density tests including, but not be limited to, in-place compaction (density and moisture) testing performed in accordance with ASTM D1556 (sand cone) or ASTM D6938 (nuclear density meter). The frequency of testing shall be at the Resident Engineer's sole discretion, with a minimum of one test for

each lift of material placed in a discrete area, at a minimum frequency of one (1) test for every 500 square feet of fill and/or one (1) test for every area of less than 500 square feet placed in one (1) day.

- G. If compaction is judged by the Engineer to be inadequate, the Contractor shall provide additional compaction or otherwise correct the problem at no additional cost to the Owner.
- H. The Contractor shall be responsible for providing to the Engineer and Owner all results of independent analysis of proposed off-site fill materials performed in accordance with ASTM C422, ASTM D698. Test results to be provided are as follows:
 - 1. Particle size (sieve) analysis for each off-site material.
 - 2. Maximum dry densities and optimum moisture contents, as per the Standard Proctor Test Methodology, for each off-site material.
 - 3. New Proctor curves shall be developed whenever the properties of a certain material are judged by the Engineer to have substantially changed.
- I. A separate proctor test shall be performed for each kind of off-site material to be used at the site.
- J. The Contractor shall be responsible for coordinating with the Engineer. No fill shall be placed if the Engineer is not available to observe the Work. Fill placed in the absence of the Engineer may be required to be excavated and replaced at the Contractor's expense.
- K. The Contractor shall provide the Engineer and the Owner free and safe access to work at all times. Provide for observation of bottom of excavation and of bearing surfaces at no additional cost to the Owner.

3.8 TOLERANCES

- A. Top Surface of Backfilling: Plus or minus one (1) inch.

3.9 CLEANUP AND DISPOSAL

- A. At the end of all filling and grading operations and before acceptance of the work, the Contractor shall remove all debris, materials, rubbish, etc., from the site, disposing of them in a manner satisfactory to the Engineer. The premises shall be maintained clean, presentable and satisfactory.

PART 4 - MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. Excavation, preparation, stockpiling, backfilling, and compaction of existing material shall be considered incidental to the various proposed items. No separate measurement or payment will be made for excavation, preparation, stockpiling, backfilling, and compaction of existing material. Include all costs for work under items for which excavation, preparation, stockpiling, backfilling, and compaction of existing materials are required.
- B. SITE 2 SANDY SILT FILL, SITE 3 SANDY SILT FILL, and NON-FEMA SANDY SILT FILL, items 02200-1, 02200-2, and 02200-3 NF, shall be measured for payment by the cubic yard of imported Sandy Silt Fill installed complete to the lines and grades as indicated on the Contract Drawings, as measured by the Engineer.

No separate measurement for payment shall be made for the placement of existing excavated material reused for backfilling.

- C. SITE 2 VEGETATIVE SUPPORT FILL, SITE 3 VEGETATIVE SUPPORT FILL, and NON-FEMA VEGETATIVE SUPPORT FILL, items 02200-4, 02200-5, and 02200-6 NF, shall be measured for payment by the cubic yard of imported Vegetative Support Fill installed complete to the lines and grades as indicated on the Contract Drawings, as measured by the Engineer.
- D. No separate measurement for payment shall be made for providing, installing, and maintaining the temporary protective coatings over subgrade prior to loam and plantings placement. Temporary protective coverings shall be considered incidental to the various proposed work items under this section.

4.2 PAYMENT

- A. SITE 2 SANDY SILT FILL, SITE 3 SANDY SILT FILL, and NON-FEMA SANDY SILT FILL associated with the Contract shall be paid for under Contract Items 02200-1, 02200-2, and 02200-3 NF. Payment shall include full compensation for furnishing, testing, and installing imported Sandy Silt Fill including all materials, equipment, labor, survey, supervision, transportation, submittals and other incidental or appurtenant work required to complete the work under this item as indicated on the Contract Drawings, as specified herein, and as directed by the Engineer.

- 1. The reuse of existing suitable material in backfilling shall not be included under Contract Items 02200-1, 02200-2, or 02200-3 NF and shall be considered incidental to the proposed work.

- B. SITE 2 VEGETATIVE SUPPORT FILL, SITE 3 VEGETATIVE SUPPORT FILL, and NON-FEMA VEGETATIVE SUPPORT FILL associated with the Contract shall be paid for under Contract Items 02200-4, 02200-5, and 02200-6 NF. Payment shall include full compensation for furnishing, testing, and installing imported Vegetative Support Fill including all materials, equipment, labor, survey, supervision, transportation, submittals and other incidental or appurtenant work required to complete the work under this item as indicated on the Contract Drawings, as specified herein, and as directed by the Engineer.

4.3 PAYMENT ITEMS

ITEM	DESCRIPTION	UNIT PRICE
02200-1	SITE 2 SANDY SILT FILL	CUBIC YARD
02200-2	SITE 3 SANDY SILT FILL	CUBIC YARD
02200-3 NF	NON-FEMA SANDY SILT FILL	CUBIC YARD
02200-4	SITE 2 VEGETATIVE SUPPORT FILL	CUBIC YARD
02200-5	SITE 3 VEGETATIVE SUPPORT FILL	CUBIC YARD
02200-6 NF	NON-FEMA VEGETATIVE SUPPORT FILL	CUBIC YARD

END OF SECTION

SECTION 02300

REVTMENT CONSTRUCTION

PART 1 - GENERAL

1.1 WORK INCLUDED

- A. The Contractor shall provide all labor, equipment, materials, and tools necessary for, and incidental to, the revetment construction and repairs, as shown on the Contract Drawings and as specified herein. The work under this Section shall include, but is not limited to, the following items:
 - 1. Excavation, removal and stockpiling for reuse or disposal existing material within limits of proposed revetment repairs as shown on the Contract Drawings.
 - 2. Survey, layout, and measurement as required for revetment repair.
 - 3. Prepare subgrade to the lines and grades shown on the Contract Drawings.
 - 4. Furnish and install new geotextile filter fabric as required and shown on the Contract Drawings.
 - 5. Recover, stockpile, and install existing suitable revetment stones encountered within the repair areas and dispose of unsuitable material.
 - 6. Furnish and install supplemental revetment armor stone and bedding stone to the lines and grades as shown on the Drawings and integrate with existing stones.
 - 7. Transition and blend revetment slopes into existing revetment beyond the repair limits as shown on the Contract Drawings and specified herein.
 - 8. Restore site to pre-construction conditions.
- B. The Contractor shall protect or restore existing site features that abut the work scheduled to remain.
- C. All work shall be performed in accordance with all regulatory requirements within the limits specified herein and indicated by the Contract Drawings.

1.2 RELATED SECTIONS

- 01000 GENERAL REQUIREMENTS
- 02002 MOBILIZATION AND DEMOBILIZATION
- 02200 EARTHWORK
- 02500 LANDSCAPING AND SITE IMPROVEMENTS

1.3 REFERENCES

- A. References herein to any technical society, organization, group, or body are made in accordance with the following abbreviations and, unless otherwise noted or specified, all work under this Section shall conform to the latest edition as applicable:
 - 1. American Society for Testing and Materials (ASTM), latest edition
 - 2. Commonwealth of Massachusetts, Department of Transportation, Standard Specifications for Highways and Bridges (latest edition)
 - 3. International Building Code (IBC), latest edition

REVTMENT CONSTRUCTION

4. Massachusetts State Building Code, latest edition

1.4 SUBMITTALS AND SAMPLES

- A. Contractor shall submit documentation for the source for furnishing all supplemental revetment stone. It is the Contractor's responsibility to determine that the source selected can provide the quality, quantities and stone size needed at the rate needed to maintain the project schedule. If a source for supplemental stone is not accepted for use by the Engineer, the Contractor shall propose other sources. Approval of submitted samples, sources, or quarries shall not be construed as a waiver by the Engineer of the right to reject any stone that does not comply with the requirements noted herein after.
- B. Supplemental stone will be accepted only after its suitability has been established to the satisfaction of the Engineer. Samples of the proposed armor stone, upper stone, and bedding stones shall be submitted as directed by the Engineer for approval prior to delivery of any stone. The Engineer shall approve proposed procedures for weighing and delivery of stone prior to delivery of any materials. The Engineer may visit the quarry prior to approval of the stone.
- C. Contractor shall record each delivery of supplemental stone to the project. Quantity of armor stone shall be provided in units of stone delivered, size of stones, and tonnage. Quantity of bedding stone shall be provided in units of tonnage.
- D. Delivery slips for armor stone and bedding stone shall be submitted to the Engineer and Owner for each delivery of stone to the sites. The Contractor shall maintain a running tally of daily tonnage and tonnage to date. Updated quantity tally shall be submitted to the Engineer and the Owner daily.
- E. Contractor shall submit methods, procedures, equipment, and schedule to perform revetment construction as shown on the Contract Drawings and as required to complete the work.
- F. Contractor shall submit method to obtain stone and truck routes for approval.
- G. Contractor shall submit product data of geotextile filter fabric material to be used.
- H. Contractor shall not order materials until the Engineer's review of submittals has been obtained.

PART 2 - PRODUCTS

2.1 EXISTING STONE

- A. It is the explicit intent of the project to maximize the reuse of existing stone materials in the work to extent feasible. The contractor shall coordinate with the Engineer prior to removing existing stone from the site that is not suitable for reuse.
- B. Existing stone recovered from excavations that does not meet the requirements for other specified uses, or that is generated in excess of the quantities required to complete the corresponding repairs, shall be incorporated into the work as Common Fill below revetments and as directed by the Engineer.
- C. Existing stone recovered for reuse as revetment stone shall be of approved quality regarding size, shape, strength, angularity, resistance to abrasion, and durability prior to placement.
- D. Existing stone shall be clean and adequately free from foreign matter. Any foreign matter adhering to the stone shall be removed prior to placement.

- E. Rounded stone present on the project site shall not be accepted in this work for Armor Stone or Bedding Stone, unless otherwise directed by the Engineer. All recovered stones used for Armor Stone and Bedding Stone shall have at least three (3) flat faces to enable the stones to be properly interlocked together to form a compact mass. No face dimension shall be less than 12 inches.
- F. Existing stones to be used for revetments shall conform to minimum size requirements as further defined in this specification section and as shown on the Drawings.
- G. Contractor shall provide stone to supplement and/or replace existing stone not suitable for reuse.

2.2 SUPPLEMENTAL STONE

- A. New stone to be used will be accepted only after its suitability has been established to the satisfaction of the Engineer. The stone shall consist of angular, sound, hard, dense, durable, blasted or field stone of good quality and resistant to weathering and disintegration from the marine environment and freeze/thaw cycles, and of an approved and satisfactory quality and shape. Accordingly, mica schist, slate, micaceous or thinly bedded sandstone, shale, coarse limestone, gypsiferous rock, poorly cemented sandstone, and conglomerate or soft or closely jointed rock of any sort shall not be accepted for use.
- B. Stone shall have the physical properties required by ASTM C33 for quarry rock suitable for producing coarse aggregate for concrete, in accordance with ASTM C88 and C131, respectively. The requirements of the abrasion test for all rock shall be a maximum loss of 40 percent.
- C. Stone shall not weight less than 160 pounds per cubic foot or more than 175 pounds per cubic foot, as determined by the standard test for apparent specific gravity (ASTM C127) using representative chips about one inch in size, taken from the stone furnished.
- D. Stone shall be free of seams, cracks, fractures, and other structural defects that will tend to increase its deterioration from natural causes. Inspection of seams, cracks, fractures, and other defects shall be by visual evaluation.
- E. Stone shall be clean and adequately free from foreign matter. Any foreign matter adhering to the stone shall be removed prior to placement.
- F. Stone shall be granite quarry or other stone of approved quality regarding size, shape, strength, resistance to abrasion, and durability, and shall be in angular blocks, as nearly cubical in shape as possible. Rounded stone shall not be accepted, and all stone shall have at least three (3) flat faces to enable the stones to be properly interlocked together to form a compact mass. No face dimension shall be less than 12 inches.
- G. New Armor Stone shall weigh between two (2) and four (4) tons with at least 50% of the armor stones weighing equal to, or more than three (3) tons or to the weight or dimensions indicated in the Contract Drawings. If required, toe stones shall be the larger range of the stone size provided.
- H. New bedding stone shall consist of sound, durable stone, 12-inches in size in their greatest dimension. Bedding stone shall consist of granite or other approved stone, in angular blocks, as nearly cubical as possible.

2.3 REJECTION

- A. If, during the course of work, it is found that the stone being furnished by the Contractor does not fully meet all the requirements of these specifications, the Contractor shall be required to furnish other stone of acceptable quality. The Contractor shall remove and dispose of all rejected stone in a manner approved by the Engineer.
- B. The right is reserved to reject materials from certain localized areas, zones, strata, or channels in the quarry when such materials area determined to be unsuitable.

2.4 GEOTEXTILE FILTER FABRIC

- A. Geotextile filter fabric shall be non-biodegradable woven geotextile fabric resistant to naturally encountered chemicals, alkalines, and acids, as Mirafi FW404, or an approved equivalent as specified in Specification Section 02220.

PART 3 - EXECUTION

3.1 GENERAL

- A. Contractor shall maintain and stockpile stone material in a safe, approved manner in accordance with all environmental requirements for the project and to protect existing structures and work. See Section 01000- General Requirements for additional coordination requirements.
- B. Contractor shall schedule work and deliveries to avoid impact to adjacent properties and local traffic.
- C. Contractor shall order new stone to supplement existing stone, based on conditions encountered. Prior to ordering new stone, the Contractor shall recover existing stone, as feasible, and as directed, so as to enable the Engineer and Contractor to evaluate size and quantity of new stone for the project.
- D. Contractor to transition repair/reconstruction work to existing to blend and match over a specific length, as defined, or as directed, to a maximum of twenty feet.
- E. Contractor shall coordinate excavation work during favorable weather conditions and at times when tidal water will not affect the work. No work shall be performed during storm conditions. Contractor to make provisions as necessary to control water during construction.

3.2 REVETMENT STONE

- A. Contractor shall remove existing material as necessary to construct the stone revetment repairs to the lines and grades shown on the Contract Drawings. Material shall be stockpiled for reuse or disposal.
- B. Contractor shall provide all necessary excavation to provide a suitable subgrade surface for the proposed stone revetments to the lines and grades shown on the Contract Drawings. There shall be no underwater excavation of material. The cost of excavation shall be included under this item. The excavated material, if suitable, may be used as granular fill below the revetment template. Unsuitable material shall be removed and disposed of.
- C. Contractor shall excavate to subgrade and install filter fabric (if required) to the limits indicated in the Contract Drawings, prior to placement of stone for revetment repair.

- D. Revetment stone shall be placed to the lines and grades indicated on the Contract Drawings and in such a manner as to produce a well graded mass of rock with the minimum practicable percentage of voids. Placement shall begin at the bottom of the area to be covered and continue up slope. Subsequent loads of material shall be placed against previously placed material in such a manner as to ensure a relatively homogenous mass.
- E. Placing stone by dumping it at the top of the slope and pushing it down the slope will not be permitted. No equipment shall be operated directly on the completed revetment system.
- F. Each stone shall be placed individually by equipment suitable for lifting, manipulating, and placing stone of the size specified. Each stone shall be selected with care as to size and shape and placed to obtain firm contact with the maximum number of adjacent stones in order to obtain the best possible interlocking. Contractor shall minimize the voids between placed armor stones by ensuring the suitable size and shape fit as tightly and maximizes the surface contact to adjoining stones to the maximum extent possible. Excessive voids between stones, filled with bedding stone, shall not be allowed. Stones shall be placed in a staggered pattern to prevent continuous joints in the surface. In no event shall small stones or wedges be used to position the armor stones. Rectangular stone shall be placed with its long axis perpendicular to the side slope.
- G. The finished slope shall be free of objectionable pockets of small stones and clusters of larger stones.
- H. Revetment repair areas shall be done in a manner so that the repaired area is securely tied into existing revetment sections. Existing armor stones outside repair limits shall be removed and reset if required to interlock new stones to existing. In areas where the repair area is adjacent to an un-repaired/damaged area the Contractor shall tie in or extend the revetment so that the end of the repaired area is stable and secure.
- I. Top stones shall have a flat face installed horizontally. The flat face shall be generally a minimum of three (3) feet in width to provide a flat top of the revetment. The maximum variation in elevation from top stone to top stone shall be 6 inches.
- J. Any material displaced by any cause before acceptance of the work shall be replaced to the lines and grades as shown on the Contract Drawings, at no additional cost to the Owner.

3.3 GEOTEXTILE (WOVEN) FILTER FABRIC

- A. Geotextile (woven) filter fabric shall be installed within the limits of the proposed revetment to the lines and elevations shown on the Contract Drawings.
- B. Geotextile fabric shall be installed in strict accordance with the manufacturer's specifications and recommendations and be installed in a manner, location and configuration as indicated on the Contract Drawings.
- C. The slope that receives the geotextile fabric shall be free of obstructions, depressions and debris. See Section 02200- Excavation, Backfilling and Compaction for subgrade preparation requirements.
- D. Geotextile fabric shall be laid loosely in a manner that will provide a smooth surface free of wrinkles or creases. Sufficient slack shall be provided around irregularities to allow for readjustments.

- E. A minimum 18-inch overlap shall be provided at all unsewn lap joints and 6-inch overlap shall be provided at sewn joints. Any incidental tears shall be patched with a minimum 3-foot overlay in all directions from the tear.

3.4 TOLERANCES

- A. The top of the revetment shall be built to the elevations and design slope as shown on the Contract Drawings.
- B. The face of the revetment is to be left rough with placing efforts concentrated on setting each stone firmly and well supported by underlying and adjacent stones. Obtaining a smooth slope face is neither necessary nor desirable and will not be permitted.
- C. No individual stones shall project more than 12 inches outside the theoretical slope design line nor less than 6 inches inside the design line. Elevations of adjacent armor stones shall be within 12 inches of each other.
- D. Stones placed beyond the specified limits, as herein extended, will not be paid for and may be required to be removed and reset at the expense of the Contractor.

PART 4 - MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. SITE 2 RESET REVETMENT, SITE 3 RESET REVETMENT, and NON-FEMA RESET REVETMENT, items 02300-1, 02300-2, and 02300-3, shall be measured for payment by the lineal foot or percentage installed complete to the lines and grades as indicated on the Contract Drawings, as measured by the Engineer.
- B. SITE 2 ARMOR STONE, SITE 3 ARMOR STONE, HAZARD-MITIGATION ARMOR STONE, and NON-FEMA ARMOR STONE, items 02300-4, 02300-5, 02300-6 HM, and 02300-7 NF, shall be measured for payment by the ton of imported armor stone installed complete to the lines and grades as indicated on the Contract Drawings, as measured by the Engineer. No separate measurement for payment shall be made for the placement of existing suitable armor stone reused for the revetment repairs.
- C. HAZARD-MITIGATION BEDDING STONE and NON-FEMA BEDDING STONE, items 02300-8 HM and 02300-9 NF, shall be measured for payment by the ton of imported bedding stone installed complete to the lines and grades as indicated on the Contract Drawings, as measured by the Engineer. No separate measurement for payment shall be made for the placement of existing suitable bedding stone reused for the revetment repairs.
- D. HAZARD-MITIGATION GEOTEXTILE FILTER FABRIC and NON-FEMA GEOTEXTILE FILTER FABRIC, items 02300-10 HM and 02300-11 NF, shall be measured for payment by the square yard of geotextile filter fabric installed complete to the lines and grades as indicated on the Contract Drawings, and as measured by the Engineer. No payment shall be made for material overlap.

4.2 PAYMENT

- A. SITE 2 RESET REVETMENT, SITE 3 RESET REVETMENT, and NON-FEMA RESET REVETMENT associated with the Contract shall be paid for under Contract Items 02300-1, 02300-2, and 02300-3 NF. Payment shall include full compensation for the revetment repair, including all materials, equipment, labor, survey, transportation, supervision, submittals and other incidental or appurtenant work required to

complete the work under this item as indicated on the Contract Drawings, as specified herein, and as directed by the Engineer.

- B. SITE 2 ARMOR STONE, SITE 3 ARMOR STONE, HAZARD-MITIGATION ARMOR STONE, and NON-FEMA ARMOR STONE associated with the Contract shall be paid for under Contract Items 02300-4, 02300-5, 02300-6 HM, and 02300-7 NF. Payment shall include full compensation for furnishing and installing imported armor stone including all materials, equipment, labor, survey, transportation, supervision, submittals and other incidental or appurtenant work required to complete the work under this item as indicated on the Contract Drawings, as specified herein, and as directed by the Engineer. The Contractor shall utilize approved existing stone prior to ordering additional stone. The Contractor shall coordinate ordering and delivery of stone with the Engineer. Armor stone material delivery and measurement for payment shall not be made for material utilized for the Contractor's convenience or not approved by the Engineer.
- C. HAZARD-MITIGATION BEDDING STONE and NON-FEMA BEDDING STONE associated with the Contract shall be paid for under Contract Items 02300-8 HM and 02300-9 NF. Payment shall include full compensation for furnishing and installing imported bedding stone including all materials, equipment, labor, survey, transportation, supervision, submittals and other incidental or appurtenant work required to complete the work under this item as indicated on the Contract Drawings, as specified herein, and as directed by the Engineer. The Contractor shall utilize approved existing stone prior to ordering additional stone. The Contractor shall coordinate ordering and delivery of stone with the Engineer. Bedding stone material delivery and measurement for payment shall not be made for material utilized for the Contractor's convenience or not approved by the Engineer.
- D. HAZARD-MITIGATION GEOTEXTILE FILTER FABRIC and NON-FEMA GEOTEXTILE FILTER FABRIC associated with the Contract shall be paid for under Contract Items 02300-10 HM and 02300-11 NF. Payment shall include full compensation for furnishing and installing geotextile filter fabric including all materials, equipment, labor, survey, transportation, supervision, submittals and other incidental or appurtenant work required to complete the work under this item as indicated on the Contract Drawings, as specified herein, and as directed by the Engineer.
- E. Armor Stone and Bedding Stone shall only be paid for within the revetment repair pay limits as shown on the Contract Drawings or as approved by the Engineer. No payment will be made for stone utilized for the Contractor's access or convenience.

4.3 PAYMENT ITEMS

ITEM	DESCRIPTION	UNIT PRICE
02300-1	SITE 2 RESET REVETMENT	LINEAR FOOT
02300-2	SITE 3 RESET REVETMENT	LINEAR FOOT
02300-3 NF	NON-FEMA RESET REVETMENT	LINEAR FOOT
02300-4	SITE 2 ARMOR STONE	TON
02300-5	SITE 3 ARMOR STONE	TON
02300-6 HM	HAZARD-MITIGATION ARMOR STONE	TON
02300-7 NF	NON-FEMA ARMOR STONE	TON
02300-8 HM	HAZARD-MITIGATION BEDDING STONE	TON
02300-9 NF	NON-FEMA BEDDING STONE	TON
02300-10 HM	HAZARD-MITIGATION GEOTEXTILE FILTER FABRIC	SQUARE YARD
02300-11 NF	NON-FEMA GEOTEXTILE FILTER FABRIC	SQUARE YARD

END OF SECTION

SECTION 02500

LANDSCAPING AND SITE IMPROVEMENTS

PART 1 - GENERAL

1.1 WORK INCLUDED

- A. The Contractor shall provide all labor, equipment, materials, and tools necessary for, and incidental to, all landscaping and site improvements, as shown on the Contract Drawings and as specified herein. The work under this Section shall include, but is not limited to, the following items:
1. Excavation, removal and stockpiling for reuse or disposal existing granular fill and topsoil (loam, loam borrow) material.
 2. Prepare subgrade and backfill for landscaped areas to the lines and grades shown on the Contract Drawings.
 3. Protection of existing trees and vegetation, as shown on the Contract Drawings.
 4. Removal and disposal of existing vegetation designated to be removed.
 5. Remove and dispose of temporary protective coverings, as required.
 6. Furnish and install upland grass seed and vegetative buffer seed.
 7. Furnish, store, and install vegetative buffer plantings as necessary and where required.
 8. Furnish, store, and install new trees, as shown on the Contract Drawings.
 9. Mulching, seeding, guying, staking, and other accessory installations.
 10. Protection and maintenance of grass, landscaped areas, and plantings.
 11. Installation of HDPE outfall pipe extensions.
 12. Removal of existing concrete pads, construction of new concrete pads, and protection and resetting of existing picnic tables on the new concrete pads.
 13. Restoration of the site to pre-construction conditions.
- B. The Contractor shall protect or restore existing site features that abut the work scheduled to remain.
- C. All work shall be performed in accordance with all regulatory requirements within the limits specified herein and indicated by the Contract Drawings.

1.2 RELATED SECTIONS

- 01000 GENERAL REQUIREMENTS
- 02002 MOBILIZATION AND DEMOBILIZATION
- 02200 EARTHWORK
- 02300 REVETMENT CONSTRUCTION

1.3 REFERENCES

- A. References herein to any technical society, organization, group, or body are made in accordance with the following abbreviations and, unless otherwise noted or specified, all work under this Section shall conform to the latest edition as applicable:
1. American Society for Testing and Materials (ASTM), latest edition
 2. American Standard for Nursery Stock (ANSI Z60.1), latest edition
 3. Commonwealth of Massachusetts, Department of Transportation, Standard Specifications for Highways and Bridges, current edition, and all amendments
 4. International Building Code (IBC), latest edition
 5. Massachusetts State Building Code, latest edition

1.4 SUBMITTALS AND SAMPLES

- A. Procedures and Equipment. The Contractor shall submit methods, procedures, and equipment for performing the landscaping and site restorations. Contractor shall not order materials until the Engineer's review of submittals has been obtained.
- B. Loam:
1. The Contractor shall furnish loam from off-site source(s) that comply with the requirements herein. The Contractor shall select a qualified testing laboratory, subject to approval by the Owner, to perform tests on samples of loam material to determine the suitability of loam for site restoration and to provide recommendations to mitigate deficiencies in topsoil nutrients, pH, and organic content with the amendment materials specified herein. The Contractor shall pay all direct and associated cost for the laboratory testing and in inspection services.
 2. Loam shall be mechanically (sieve analysis) tested to determine relative percentages of sand, silt, and clay particles.
 3. Loam shall be chemically tested for Nitrate, Ammonium Nitrogen, Phosphorus, Potassium, Calcium Aluminum, Soluble Salts and soil acidity.
 4. The Contractor shall submit test results of loam for approval by the Engineer.
- C. Vegetative Support Fill:
1. Loam shall consist of existing or imported friable soil obtained from naturally well-drained areas or shall be the product of a commercial sand and gravel processing facility. It shall be uncontaminated by salt water, foreign matter, or substances harmful to plant growth. Loam shall be free of debris, rocks, clods, stumps, roots, building materials, trash, and any other extraneous matter. Loam shall be free of quackgrass rhizomes (*Agropyron repens*) and the nut-like tubers of nutsedge (*Cyperus esculentus*). It is anticipated that loam stripped from the limits of work as indicated on the drawings and herein will be suitable and sufficient for the work.
 - a. Loam shall contain 4% to 10% organic matter as determined by the loss on ignition of oven-dried samples.
 - b. Salinity (electrical conductivity) shall be less than 0.1 S/m as determined by a 1:2 (by volume) soil-to-water mix. Salt test samples shall not be oven-dried.
 - c. Loam acidity range shall be pH 5.5 to 7.0.

- d. Loam shall otherwise conform to MassDOT Specification M1.05.0. Loam for Lawns shall have no material greater than ½ inch in diameter. Gradation requirements shall conform to the following.

(MassDOT Spec. M1.05.0)

U.S. Sieve No.	Percent Passing by Weight
#10	85-100
#40	35-85
#200	10-35

Maximum size of stone shall be ½ inch in diameter

2. Gravel Borrow shall consist of inert material that is hard, durable stone and coarse sand, free from trash, ice, snow, tree stumps, roots, organic materials, loam and clay, surface coatings, and other deleterious materials. Gradation requirements shall conform to the following:

(MassDOT Spec. M1.03.0, Type C)

U.S. Sieve No.	Percent Passing by Weight
1/2"	50-85
#4	40-75
#50	8-28
#200	0-10

Maximum size of stone shall be two inches (2") largest dimension

- D. Soil Amendments: The Contractor shall submit manufacturers or vendor's certified analysis for soil amendments including fertilizer materials. Statement of analysis shall indicate the proportions of organic and inorganic matter contained and the availability of plant food.
- E. Plants: Each delivery of plant material shall have a State Nursery inspection certificate verifying inspection and freedom from disease and insect pests. Failure to furnish this certificate to Engineer upon delivery shall be cause for rejection.
- F. Seed: The Contractor shall submit seed vendor's certified statement for each grass seed mixture required, stating botanical and common name, percentage by weight, and percentages by purity, germination, and weed seed for each grass seed species.
- G. Maintenance: The Contractor shall submit recommended procedures to be implemented by the Owner for the maintenance of the landscape work. At a minimum, the instructions shall address the following for all plants, plant beds, and lawns:
1. Fertilization types, application equipment, rates and frequency.
 2. Pest and weed control types, application equipment, rates and frequency.
 3. Watering application rates and frequency.
 4. Mowing frequency and blade heights.

- 5. Pruning procedures, equipment and time.
- 6. Plant bed mulching and weeding procedures.

H. Product Data. The Contractor shall submit product data for outfall pipe extensions.

1.5 SOURCE QUALITY CONTROL

- A. Landscape materials shall be delivered with certificates of inspection required by governing authorities.
- B. Provide perennials and grasses of quantity, size, genus, species and variety shown and scheduled for landscape work and complying with recommendation and requirements of ANZI Z60.1, the American Standard for Nursery Stock.
- C. Provide healthy, vigorous stock, grown in a recognized nursery in accordance with good horticultural practice and free of disease, insects, eggs, larvae, and defects such as knots, cut-back leaders, broken branches, sun-scald, injuries, abrasions, or disfigurement.
- D. Label at least one of each variety per delivery with a securely attached waterproof tag bearing legible designation of botanical and common name.

1.6 The Engineer reserves the right to inspect perennials and grasses either at place of growth and at the site before planting for compliance with requirements. Engineer reserves the right to further inspect trees for size and condition of root balls and systems, insects, injuries, and latent defects, and to reject unsatisfactory or defective material at any time during the course of work. All rejected materials are to be removed immediately from the project site by the Contractor.

1.7 WARRANTY

- A. After the completion of planting and seeding, the completed landscaped and stabilized areas shall be inspected by the Engineer, Conservation Commission Agent, and/or the Owner to determine if the landscape and vegetative cover is acceptable. Contractor to provide a 1-year warranty.
- B. If a substantial number of plants are sickly or dead at the time of inspection, acceptance will not be granted, and the Contractor's responsibility for maintenance of the plants shall be extended until replacements are made.

PART 2 - PRODUCTS

2.1 VEGETATIVE SUPPORT FILL

- A. Vegetative Support Fill shall consist of a 50/50 mix of Loam and Gravel Borrow.

2.2 SEED UPLAND GRASS

- A. Upland grass seed shall be fresh, clean, dry, new crop seed meeting the standards of SRA-156, U.S. Department of Agriculture Rules and Regulations under the Federal Seed Act.
- B. Seed shall be of the following varieties, mixed in proportion by weight and testing the minimum percentages of purity and germination.

Name	Proportion	Minimum % Germination	Minimum % Purity	Maximum % Weed
Kentucky Bluegrass Top Quality Names Variety	40%	80	85	0.5
Fine Textured Endophytic Perennial Ryegrass	35%	90	85	0.5
Creeping Red Fescue	25%	90	85	0.5
(Application = 4 lb./1,00 Sq. Ft.)				

1. Perennial Ryegrass shall consist of one or more of the following varieties: Baron, Famous, NuBlue.
2. Turf Type Tall Fescue shall be Rebel Jr. or approved equal.

C. Weed seed shall not exceed 0.5% by weight.

2.3 SEED VEGETATIVE BUFFER

- A. Seed mix within the vegetated buffer shall be New England Erosion Control/ Restoration for Dry Sites Mix as provided by New England Wetland Plants, Inc. or an approved equivalent.

2.4 SHURB PLANTINGS

- A. The Contractor shall furnish all salt-tolerant plants shown on the Contract Drawings, as specified. Plants shall be nursery grown unless specifically authorized to be collected.
- B. Plants shall conform to the American Standard for Nursery Stock (ANSI Z60.1).
- C. Plants shall be typical of their species or variety and shall have a normal habit of growth and be legibly tagged with the proper name.

D. Shrubs shall meet the following standards:

1. Shrubs shall be healthy salt-tolerant and vigorous plants which are very well shaped, heavily branched, densely foliated, and true to form for the variety.
2. Canes or Trunk(s) and Branches:
 - a. Well-formed and sturdy.
 - b. Branching shall be uniformly distributed close to the ground.
 - c. Scars shall be free of rot and not exceed $\frac{1}{4}$ the diameter of the wood beneath in greatest dimension unless completely healed.
 - d. Pruning scars shall be clean cut and shall leave little or no protrusion from the trunk or branch.
 - e. Graft unions shall be completely healed.
 - f. No suckers or water sprouts.
 - g. Contain no dead wood.
 - h. Free of cracks, splits, or cambium peeling.
3. Shrubs with pest or mechanical damage will not be accepted.
4. Shrubs shall show no signs of frost or winter damage to the foliage. Foliage shall not be in a state of drought stress. Leaves or needles shall show no signs of wilt or desiccation due to weather stress.

E. Root system shall meet the following standards:

1. Each plant shall have an extensive, symmetrically balanced fibrous root system. Root balls that show signs of asymmetry, injury, or damage to the root system shall be rejected.
2. Curling or spiraling of the roots along the walls of rigid containers will not be accepted.
3. The fibrous root system of all plants shall be moist and fresh with a white color when washed of soil. When the plant is removed from the container the visible root mass shall be healthy with white root tips. The root systems shall be free of disease, insect pests, eggs, or larvae.
4. All trees and all shrubs which are not grown in containers must be moved with the root systems as solid units with balls of earth firmly wrapped with untreated 8-ounce natural, biodegradable fabric burlap, firmly laced with stout, natural biodegradable cord or twine. The base of the tree trunks shall be wrapped with a protective burlap layer, surrounded by a cardboard trunk protector, and loosely tied with twine.
5. The diameter and depth of the balls of earth must encompass the fibrous and root feeding system necessary for the healthy recovery of the plant. Minimum root ball diameters and depths shall be in accordance with the American Standard for Nursery Stock.
6. Plants shall not be loose in the container.

F. Container grown plants which have roots growing out of the container may be rejected.

2.5 TREES

- A. New trees shall be as indicated on the Contract drawings.
- B. New trees shall be healthy and vigorous, free from physical damage, free of disease, insect pests and their eggs, and larvae.
- C. Except as otherwise specified, size and grade of plant materials shall conform to ANSI Z 60.1. In no case shall rootball size be less than 11 inches in diameter for each inch of caliper.
- D. Trees shall have outstanding form, symmetrical, heavily branched with an even branch distribution, densely foliated and budded, and a strong, straight, distinct leader where this is characteristic of species. Trees shall possess a normal balance between height and spread. The Engineer will be the final arbiter of acceptability of tree form.
- E. Trees shall have a well-developed fibrous root system.
- F. Trees shall be free of physical damage such as scrapes, broken or split branches, scars, bark abrasions, sun scalds, fresh limb cuts, disfiguring knots or other defects.
- G. Trees shall not be pruned before delivery.
- H. Unless otherwise permitted by the Engineer, trees shall be nursery grown.
- I. Trees shall be grown for at least two years under climatic conditions similar to those in the locality of the Project Site.
- J. Nursery grown trees shall be freshly dug. No heeled in plants or plants from cold storage will be accepted, unless otherwise permitted by the Engineer.

2.6 OUTFALL PIPE EXTENSIONS

- A. Outfall pipe extensions shall consist of high-density polyethylene (HDPE) drain pipe and shall conform to AASHTO 252 and ASTM D3350.
- B. Pipe coupling shall consist of Fernco corrugated pipe coupling, or approved equivalent, and shall conform to ASTM D5926.

2.7 CONCRETE AND REINFORCING

- A. In accordance with Section 03300- Concrete.

2.8 SOIL AMENDMENTS

- A. Soil tests shall be made to determine requirements for both lime and fertilizer. Supplier's certifications may be provided in lieu of soil tests.
- B. Fertilizer and other soil amendments shall be added to counteract deficiencies as recommended by the soil analysis and as directed by the Engineer.
- C. Fertilizers shall be uniform in composition and free flowing. Fertilizer shall be delivered to the site fully labeled according to the applicable fertilizer laws and regulations.

2.9 MULCH

- A. Materials to be used in mulching shall conform to the following requirements:
 - 1. Hay Mulch: Shall consist of mowed and properly cured grass, clover, or other acceptable plants.
 - 2. Straw Mulch: Shall consist of stalks or stems of grain after threshing.
 - 3. Wood Chip Mulch: Shall consist of wood chips produced by cutting branches, limbs of trees, brush or shrubs with chippers or from the chipping of stumps free of topsoil, stones, etc.
 - 4. Wood Fiber Mulch: Shall consist of wood fiber produced from clean, whole uncooked wood, formed into resilient bundles having a high degree of internal friction and shall be dry when delivered on the project.

2.10 ACCESSORIES

- A. Wrapping materials shall be natural burlap.
- B. Antidesiccant shall be an emulsion specifically manufactured for plant protection which provides a protective film over plant surfaces which is permeable enough to permit transpiration.
- C. Fungicide shall be zinc ethylenedisithiocarbamate (Zineb, Devizeb, Parazate), or approved equal.
- D. Insecticide shall be applied only as approved by Engineer for a specific pest infestation.
- E. Water shall be clean, fresh and free of substances or matter which could inhibit vigorous growth of vegetation.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Prepare all surfaces of lawns, vegetated buffer, and planting beds prior to layout of plantings. Fine grade and check gradients to allow for proper drainage.
- B. Layout individual perennial and grass areas for multiple plantings. Stake locations and outline areas for the Engineer's review and approval before the start of planting work. It is anticipated that final planting locations for the vegetated buffer will be adjusted in the field based on site conditions encountered.
- C. No loam shall be handled, planted, or seeded in any way if it is in a wet or frozen condition.

3.2 VEGETATIVE SUPPORT FILL PLACEMENT AND SPREADING

- A. Disturbed lawn areas shall be permanently stabilized with rapidly growing vegetative cover with vegetative support fill.
- B. Vegetative Support Fill shall be spread in even lifts and compacted sufficiently to reduce settling but not enough to prevent the movement of water and feeder roots through the soil.
- C. If depressions develop within the surface of the vegetative support fill the depressions shall be filled with additional topsoil material and the surface shall be regraded until presenting a smooth even finish corresponding to the required grades.

3.3 FERTILIZING AND SEEDING

- A. Apply fertilizer, lime, and other initial soil amendments evenly at rates determined by topsoil test results and/or seed suppliers' recommendations.
- B. Limestone and fertilizer where necessary shall be spread and thoroughly incorporated in the layer of loam. The fertilizer shall be thoroughly incorporated into the layer of loam and the upper one (1) inch of the underlying subsoil by harrowing or other methods satisfactory to the Engineer.
- C. The area upon which the seed mix is to be placed shall be raked, harrowed or dragged to form a reasonably smooth surface in accordance with the seed supplier's requirements.
- D. Moisten prepared vegetated areas before seeding if soil is dry. Water thoroughly and allow surface moisture to dry before seeding. If the loam has become too compacted, it shall be loosened by spading, rototilling or another mechanical cultivator.
- E. Protect the seed bed with barricades, if necessary, to keep all pedestrian and equipment traffic off the areas.
- F. Methods for seeding shall conform to the Commonwealth of Massachusetts, Department of Transportation, Standard Specifications for Highways and Bridges, current edition.
- G. Hydroseeding shall be a two-step process as follows:

1. Spread 100 percent of the required seed uniformly over the prepared soil surface so the seed directly contacts the soil. An optional 10 percent of wood cellulose fiber mulch may be added to the slurry.
2. For slopes less than three to one (3:1): A separate application of wood cellulose fiber mulch spread immediately following the first step. Apply the wood cellulose fiber mulch at a rate of 2,000 pounds per acre.
3. For slopes greater than three to one (3:1): A separate application of bonded fiber matrix shall be spread immediately following the first step.

H. Repair and restore lawn areas if eroded or otherwise disturbed after fine grading and prior to planting.

I. After grass has appeared, re-seed all areas which have failed to show a uniform stand of grass.

3.4 PLANTING: SHRUBS, GRASSES, AND TREES

A. Excavate pits, beds and trenches with sloping sides and with bottom of excavation slightly raised at center to provide proper drainage. Loosen hard subsoil in bottom of excavation.

1. For balled and burlapped plants, make excavations at least twice as wide as the ball diameter and equal to the ball depth.
2. For container grown stock, excavate as specified for balled and burlapped stock, adjusted to size of container width and depth.

B. Obstructions Below Ground

1. In the event that rock, underground construction work or obstructions are encountered in any plant life excavations work under this contract, alternate locations may be selected by the Engineer.
2. Where locations cannot be changed, the obstruction shall be moved, subject to the Engineer's approval, to a depth of not less than 16 inches below grade, and no less than 6 inches below bottom of ball or roots when plant is properly set at the required grade.

C. Set balled and burlapped and container stock on layer of compacted planting soil mixture, plumb and in center of pit or trench with top of ball at same elevation as adjacent finished landscape grades. Remove burlap from sides of balls; retain on bottoms. Plastic containers or other synthetic root ball wrapping material must be removed entirely from root ball. When set, place additional backfill around base and sides of ball, and work each layer to settle backfill and eliminate voids and air pockets. When excavation is approximately 2/3 full, water thoroughly before placing remainder of backfill. Repeat watering until no more is absorbed. Water again after placing final layer of backfill.

D. Set container grown stock as specified for balled and burlapped stock, except cut containers away; remove bottoms of wooden boxes after partial backfilling so as not to damage root balls.

E. Prune, thin out and shape trees in accordance with standard horticultural practices. Pruning shall be done after delivery of plants and after plants have been inspected and approved by Engineer. Review pruning procedures with Engineer before proceeding.

F. Remove and replace excessively pruned or mis-formed stock resulting from improper pruning.

- G. Wrap tree trunks of 2-inch caliper and larger spirally from bottom to top with material specified and adequately secure. The wrapping shall overlap and entirely cover the trunk from the ground to the height of the second branches and shall be neat and snug. Overlap shall be approximately 2 inches and tie at 24-inch intervals with waxed twine.
- H. Mulching: Apply 3-inch-thick layer of bark mulch over entire area of the saucer of each tree and planting areas as indicated on the Drawings.
- I. Guy and stake plants immediately after planting, as indicated and as necessary.
- J. Any excess soil, debris, or trimmings shall be removed from the Project site immediately upon completion of each planting operation.

3.5 MAINTENANCE

- A. Maintain all plant material until acceptance by the Engineer and the Owner. Begin maintenance immediately after planting.
- B. Maintenance shall consist of keeping the plants in a healthy growing condition and shall include but is not limited to watering, weeding, cultivating, re-mulching, removal of dead material, resetting plants to proper grades or upright position, maintaining the planting saucer and replacement of plants that are in decline or die.
 - 1. Plants shall be inspected for watering needs at least twice each week and watered to promote plant growth and vitality. Do not compact planting soil in the process of water plant material. Place wood board ballast to walk between plants.
 - 2. Planting beds and individual plant pits shall be kept free of weeds, and mulch shall be replaced as required to maintain the specified layer of mulch. Beds and individual pits shall be neat in appearance and maintained to the designed layout.
 - 3. Plants that are in decline or die during the maintenance period shall be removed and replaced by the Contractor within one week of notification and replaced during that growing season.
- C. During the maintenance period, any decline in the condition of plantings shall require the Contractor to take immediate action to identify potential problems and undertake corrective measures. If required, the Contractor shall engage professional arborists and/or horticulturalists to inspect plant materials and to identify problems and recommend corrective procedures. The Engineer shall be immediately advised of such actions. Inspection and recommendation reports shall be submitted to the Engineer.
- D. The Contractor shall be responsible for the watering of all seeded and grassed areas, which shall be kept moist. The Engineer's decision will prevail in the event that a dispute develops with the Contractor as to whether or not the grassed areas are moist. Watering shall be done in a manner that will provide uniform coverage, prevent erosion due to application of excessive quantities over small areas, and prevent damage to the finished surface by the watering equipment.
- E. Areas which fail to achieve established vegetation, as described herein, shall be replaced and maintained the Contractor, at no addition expense to the Owner. Contractor to provide a 1-year warranty.

3.6 INSPECTION AND ACCEPTANCE

- A. When landscape work is completed, including maintenance, Engineer will, upon request, inspect to determine acceptability.
- B. If inspected landscape work does not comply with requirements, replace rejected work and continue specified maintenance until re-inspected by Engineer and found to be acceptable. Remove rejected plants and materials promptly from project site.

3.7 OUTFALL PIPE EXTENSIONS

- A. Sawcut existing outfall pipes as necessary to provide a flush transition between the existing end of pipe to the new pipe extension.
- B. Provide new outfall pipe extensions and pipe coupling sections. Follow manufacturer's instructions for installation.
- C. Install outfall pipe extensions between 1% to 3% slope with the seaward end installed at the face of the finished grade condition of the repaired revetment and upper slope, as indicated on the Contract Drawings, and as indicated by the Engineer.
- D. Backfill and restore the adjacent area in accordance with these Specifications and Contract Drawings.

3.8 CONCRETE PADS AND PICNIC TABLES

- A. Temporarily remove, store, protect, and reset existing picnic tables on new concrete pads.
- B. Demolish and remove existing concrete pads.
- C. Prepare subgrade for new concrete pads in accordance with Section 02200- Earthwork.
- D. Install new reinforced cast-in-place concrete pads in accordance with Section 03300- Concrete.
- E. Restore site and upland loam and seed as specified herein.

PART 4 - MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- A. SEED UPLAND GRASS and HAZARD-MITIGATION SEED UPLAND GRASS, items 02500-1 and 02500-2 HM, shall be measured for payment by the square yard of upland grass seed installed complete to the lines and grades as indicated on the Contract Drawings, as measured by the Engineer, and shall include a 1-year warranty for vegetation establishment.
- B. NON-FEMA SEED VEGETATED BUFFER, item 02500-3 NF, shall be measured for payment by the square yard of vegetated buffer seed installed complete to the lines and grades as indicated on the Contract Drawings, as measured by the Engineer, and shall include a 1-year warranty for vegetation establishment.
- C. HAZARD-MITIGATION VEGETATIVE BUFFER PLANTING, item 02500-4 HM, shall be measured for payment by the lump sum or percentage installed complete for vegetative buffer plantings as indicated on the

Contract Drawings, as measured by the Engineer, and shall include a 1-year warranty for vegetation establishment.

- D. NON-FEMA TREES, item 02500-5 NF, shall be measured for payment by each new tree installed complete to the lines and grades as indicated on the Contract Drawings, as measured by the Engineer, and shall include a 1-year warranty for vegetation establishment.
- E. NON-FEMA OUTFALL EXTENSIONS, item 02500-6 NF, shall be measured for payment by the lump sum or percentage installed complete for outfall pipe extensions as indicated on the Contract Drawings and as measured by the Engineer.
- F. NON-FEMA CONCRETE PADS FOR TABLES item 02500-7 NF, shall be measured for payment by the lump sum or percentage installed complete for new concrete pads and resetting existing picnic tables as indicated on the Contract Drawings and as measured by the Engineer.

4.2 PAYMENT

- A. SEED UPLAND GRASS and HAZARD-MITIGATION SEED UPLAND GRASS associated with the Contract shall be paid for under Contract Items 02500-1 and 02500-2 HM. Payment shall include full compensation for furnishing, installing, watering, and maintenance of upland seeding including all materials, equipment, labor, survey, supervision, transportation, submittals and other incidental or appurtenant work required to complete the work under this item as indicated on the Contract Drawings, as specified herein, and as directed by the Engineer.
- B. NON-FEMA SEED VEGETATED BUFFER associated with the Contract shall be paid for under Contract Item 02500-3 NF. Payment shall include full compensation for furnishing, installing, watering, and maintenance of vegetative buffer seeding including all materials, equipment, labor, survey, supervision, transportation, submittals and other incidental or appurtenant work required to complete the work under this item as indicated on the Contract Drawings, as specified herein, and as directed by the Engineer.
- C. HAZARD-MITIGATION VEGETATIVE BUFFER PLANTING associated with the Contract shall be paid for under Contract Item 02500-4 HM. Payment shall include full compensation for furnishing, installing, watering, and maintenance of vegetative buffer plantings including all materials, equipment, labor, survey, supervision, transportation, submittals and other incidental or appurtenant work required to complete the work under this item as indicated on the Contract Drawings, as specified herein, and as directed by the Engineer.
- D. NON-FEMA TREES associated with the Contract shall be paid for under Contract Item 02500-5 NF. Payment shall include full compensation for furnishing, installing, watering, and maintenance of new trees including all materials, equipment, labor, survey, supervision, transportation, submittals and other incidental or appurtenant work required to complete the work under this item as indicated on the Contract Drawings, as specified herein, and as directed by the Engineer.
- E. NON-FEMA OUTFALL EXTENSIONS associated with the Contract shall be paid for under Contract Item 02500-6 NF. Payment shall include full compensation for furnishing and installing outfall pipe extensions with new drain pipe and pipe coupling sections including all materials, equipment, labor, survey, supervision, transportation, submittals and other incidental or appurtenant work required to complete the work under this item as indicated on the Contract Drawings, as specified herein, and as directed by the Engineer.

- F. NON-FEMA CONCRETE PADS FOR TABLES associated with the Contract shall be paid for under Contract Item 02500-7 NF. Payment shall include full compensation for furnishing, stockpiling, protecting, installing new concrete pads, and resetting existing picnic tables on new concrete pads including all materials, equipment, labor, survey, supervision, transportation, submittals and other incidental or appurtenant work required to complete the work under this item as indicated on the Contract Drawings, as specified herein, and as directed by the Engineer.

4.3 PAYMENT ITEMS

ITEM	DESCRIPTION	UNIT PRICE
02500-1	SEED UPLAND GRASS	SQUARE YARD
02500-2 HM	HAZARD-MITIGATION SEED UPLAND GRASS	SQUARE YARD
02500-3 NF	NON-FEMA SEED VEGETATED BUFFER	SQUARE YARD
02500-4 HM	HAZARD-MITIGATION VEGETATIVE BUFFER PLANTING	LUMP SUM
02500-5 NF	NON-FEMA TREES	EACH
02500-6 NF	NON-FEMA OUTFALL EXTENSIONS	LUMP SUM
02500-7 NF	NON-FEMA CONCRETE PADS FOR TABLES	LUMP SUM

END OF SECTION

SECTION 03300

CONCRETE

PART 1 - GENERAL

1.1 WORK INCLUDED

- A. The work covered by this section consists of providing all survey, supervision, labor, material, tools and equipment, and services necessary for, and incidental to, the construction of and cementitious elements associated with Cressy Beach Revetment – Storm Damage Repair Reconstruction Project, as indicated below, as shown on the Contract Drawings and as required to complete the work. This work includes but is not limited to, the following:
 - 1. Preparation, forming, pouring, finishing, and curing cast-in-place reinforced concrete for the concrete pads, or other cast-in-place or precast concrete elements of the Project.
 - 2. Concrete reinforcement and accessories.
 - 3. Restoration of the Site to pre-construction conditions.
- B. All work shall be performed in accordance with all regulatory requirements within the limits specified herein and indicated by the Contract Drawings.

1.2 RELATED SECTIONS

- 01000 GENERAL REQUIREMENTS
- 02002 MOBILIZATION AND DEMOBILIZATION
- 02200 EARTHWORK
- 02500 LANDSCAPING AND SITE IMPROVEMENTS

1.3 REFERENCES

- A. References herein to any technical society, organization, group, or body are made in accordance with the following abbreviations and, unless otherwise noted or specified, all work under this Section shall conform to the latest edition as applicable:
 - 1. American Concrete Institute (ACI), latest edition: SP-15; 211; 224; 301; 304; 305; 306; 309; 311; 315; 318; 347; 357
 - 2. American Association of State Highway and Transportation Officials (AASHTO) M85 Standard Specification for Portland Cement
 - 3. American Society for Testing and Materials (ASTM), latest edition: A185; A615; A706; A767; C31; C33; C39; C94; C143; C150; C231; C260; C494; C989; D8139
 - 4. American Welding Society (AWS), latest edition: D1.4
 - 5. Commonwealth of Massachusetts, Department of Transportation, Standard Specifications for Highways and Bridges, current edition, and all amendments
 - 6. International Building Code (IBC), latest edition
 - 7. Massachusetts State Building Code, latest edition

1.4 SUBMITTALS AND SAMPLES

- A. Procedures and Equipment. The Contractor shall submit methods, procedures, and equipment for placing concrete at locations indicated on the Contract Drawings.
- B. Concrete Mixture Design: At least 30 days prior to concrete placement, submit proportions for the concrete mixture(s) that meets the properties specified and is suitable for the job conditions. Submit a complete list of materials including type; brand; source and amount of cement, fly ash, pozzolans, silica fume, ground slag, aggregate and admixtures; and applicable reference specifications. Submit additional data regarding concrete aggregate if the source of aggregate changes. Include copies of test reports showing that the mix has been successfully tested to produce concrete with the properties specified. The mixture shall be prepared by an accredited laboratory experienced in this field and under the direction of a licensed/registered civil engineer, who shall sign all reports and designs. The submittal shall clearly indicate where each mixture will be used.
- C. Material Test Reports: For the following, submit from a qualified testing agency, indicating compliance with requirements:
 - 1. Aggregates. Submit test results for aggregate quality in accordance with ASTM C33, gradation curves, and combined gradation curve for grading proposed for use in the work and used in the mixture qualification. Submit test results confirming the potential for alkali-silica reaction are within allowable limits in accordance with ASTM C1260.
 - 2. Cement: Submit mill test report with the concrete mixture design submittal. Mill test reports shall be no more than 6 months old.
 - 3. Material Test Certification: For each of the following, signed by manufacturers:
 - a. Cementitious materials: fly ash, ground granulated blast-furnace slag, silica fume. Test results shall be no more than 6 months old.
 - b. Admixtures.
 - c. Steel reinforcement and accessories.
 - d. Bonding agents.
 - e. Repair materials.
- D. Concrete Shop Drawings
 - 1. Steel Reinforcement Shop Drawing: Provide drawings that detail fabrication, bending, and placement. Include bar sizes, lengths, material, grade, bar schedules, stirrup spacing, bent bar diagrams, bar arrangement, splices and laps, mechanical connections, tie spacing, hoop spacing, supports for concrete reinforcement, and concrete cover. Indicate proposed methods for splicing reinforcing.
- E. Concrete Placement: Submit description of proposed placement procedures and technical literature for equipment and methods proposed for use in placing concrete. Include pumping or conveying equipment including type, size and materials for pipe, valve characteristics, and the maximum length and height concrete will be pumped. No adjustments shall be made to the mix design to facilitate pumping or placement without the acceptance of Engineer. Submit technical literature for equipment and methods proposed for vibrating and compacting concrete.

- F. Concrete Finish - At location acceptable to the Engineer and Owner, demonstrate methods used for construction, including forming and finishing conditions required for the project using materials, workmanship, joint treatment, form ties, patching techniques, and curing methods to be used throughout the project.
- G. Hot and Cold weather plans.
- H. Submit batch tickets for each load of concrete delivered to the project site.
- I. Submit qualification data for Concrete Supplier and Contractor's Independent Testing Agency.
- J. Test Reports. Submit results for field test completed on fresh concrete and compressive strength tests completed on hardened concrete. Test reports shall be submitted to the Engineer no later than 1 day of Contractor receipt of reports.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C 94/C 94M requirements for production facilities and equipment. Manufacturer certified according to NRMCA's "Certification of Ready Mixed Concrete Production Facilities."
- B. Field Testing Technician and Testing Agency Qualifications: An independent testing agency shall be provided by the Contractor and approved by the Owner.
 - 1. Work on concrete shall be performed by an ACI Concrete Field Testing Technician Grade 1 or Grade 2 qualified in accordance with ACI SP-299 or equivalent. Equivalent certification programs shall include requirements for written and performance examination as stipulated in ACI SP-299.
 - 2. Testing agencies that perform testing services on reinforcing steel shall meet the requirement of ASTM E 329.
 - 3. Testing agencies that perform testing serviced on concrete materials shall meet the requirements of ASTM C 1077.
- C. Contractor shall notify Engineer minimum of 24 hours prior to commencement of concreting operations. Concrete placement shall be performed in the presence of the Engineer.
- D. Source Limitations: Obtain each type or class of cementitious material of the same brand from the same manufacturer's plant, obtain aggregate from one source, and obtain admixtures through one source from a single manufacturer.
- E. Welding: Qualify procedures and personnel according to AWS D1.4, "Structural Welding Code Reinforcing Steel".
- F. All products shall be installed in accordance with the manufacturer's recommendations.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Cast-in-Place Concrete

1. Follow ACI 301, ACE 304R, and ASTM A 934 requirements and recommendations. Do not deliver concrete until forms, reinforcement, embedded items, and chamfer strips are in place and ready for concrete placement. Store reinforcement of different sizes and shapes in separate piles or racks raised above the ground. Protect materials from contaminants such as grease, oil and dirt. Ensure materials can be accurately identified after bundles are broken and tags removed.

1.7 TESTS

- A. All testing shall be conducted by the Contractor at the Contractor's expense.
- B. Testing results shall immediately be sent to the Engineer upon receipt by the Contractor from the testing firm.
- C. Testing Agency Qualifications. An independent sampling and testing agency shall be provided by the Contractor. Submit qualifications of proposed concrete testing agency and technicians.
 1. Field Testing Technicians: ACI Concrete Field Testing Technician Grade I qualified in accordance with ACI SP-2.
 2. Laboratory Testing Technicians: ACI Concrete Strength Testing Technician and Laboratory Testing Technician, Grade I or II qualified in accordance with ACI SP-2.
- D. Tests of cement and aggregates will be performed to ensure conformance with the requirements stated herein, and under provisions of the General Conditions.
- E. Submit proposed mix designs using $\frac{3}{4}$ -inch, and $\frac{3}{8}$ -inch aggregate mix to the Engineer for review prior to commencement of concreting operations.
- F. Testing firm will perform slump tests in accordance with ASTM C143.
- G. Testing firm shall make and cure concrete test cylinders in accordance with ASTM C31 and perform laboratory compressive strength tests in accordance with ASTM C39.
- H. One set of four concrete test cylinders will be taken for every 25 cubic yards, or as otherwise directed by the Engineer.
- I. One slump test will be taken for every concrete truck, or as otherwise directed by the Engineer.
- J. Air entrainment tests shall be performed in accordance with ASTM C231 or ASTM C173.

PART 2 - MATERIALS

2.1 CONCRETE MATERIALS

A. Cementitious Material:

1. Portland Cement. ASTM C150 Type II.
2. Ground Granulated Blast-Furnace Slag, ASTM C989, Grade 120.

B. Aggregate:

1. Provide from one source of supply to ensure uniformity in color, size, and shape unless otherwise accepted by the Engineer.
2. Do not use aggregates containing soluble salts or other substances such as iron sulfides, pyrite, marcasite or ochre, which can cause stains on exposed concrete surfaces.

C. Fine Aggregate:

1. Optional grading in ASTM C33 shall apply.
2. Restriction on reactive material in ASTM C33 shall apply.
3. Use clean, sharp, natural sand. Do not use dune sand, or manufactured sand from a crushing operation.

D. Coarse Aggregate:

1. Use Size Number 67 for mixes having a maximum coarse aggregate size of $\frac{3}{4}$ inch.
2. Class designation is 3S per ASTM C33.
3. Use crushed stone processed from natural rock or stone, or washed gravel – either natural or crushed. Do not use pit of bank run gravel.
4. Maximum aggregate shall be within a 1/4-inch oversize tolerance of the stone retained on the largest sieve.

E. Water: MassDOT M4.02.04, it shall be clean, clear, and free of deleterious material.

2.2 ADMIXTURES

A. Source: Provide all admixtures used in the concrete mix from the same manufacturer.

B. Admixtures performance: Provides dense, durable concrete resistant to chemical attack, wear, rebar corrosion, freeze/thaw attack, cracking, and segregation. All admixtures used shall be compatible. All admixtures shall be free of chlorides and other corrosive chemicals.

C. Air Entraining Admixtures: ASTM C260 Standard Specification for Air-Entraining Admixtures for Concrete.

D. Water Reducing Admixtures: ASTM C494 Type A Standard Specification for Chemical Admixtures for Concrete.

E. Retarding Admixtures: ASTM C494 Type B Standard Specification for Chemical Admixtures for Concrete.

F. Accelerating Admixtures: ASTM C494 Type C and E Standard Specification for Chemical Admixtures for Concrete.

G. Corrosion Inhibiting Admixture: ASTM C494 and ASTM C1582 Admixtures to Inhibit Chloride-Induced Corrosion of Reinforcing Steel in Concrete.

2.3 BONDING AGENT

- A. Bonding agent shall be Sika Armatec 110 EPOCEM or approved equal.

2.4 CONCRETE MIX

- A. Mix concrete in accordance with ASTM C94.

- B. Provide concrete of the following characteristics:

1. Compressive Strength
(7 days): 3,000 psi
(unless otherwise specified)
2. Compressive Strength
(28 days): 4,000 psi
(unless otherwise specified)
3. Aggregate Size (maximum) for 3/4" mix: 1" largest dimension
4. Aggregate Size (maximum) for 3/8" mix: 1/2" largest dimension
5. Aggregate Size (minimum): 25% passing #50 sieve
6. Air entrainment: 5% to 8%
7. Maximum Total Water to Cementitious Material Ratio (W/C): 0.45 (max)
8. Slump: 3 to 5 inches
9. Minimum Cementitious Material Content: 585 lbs. per cubic yard

- C. Use accelerating admixtures in cold weather only when approved by Engineer. Use of admixtures will not relax cold weather placement requirements.

- D. Add air entraining agent to concrete mix.

- E. Use water-reducing admixtures in strict compliance with the manufacturer's directions. Admixtures to increase cement dispersion, or to provide increased workability for low-slump concrete, may be used at the Contractor's option subject to the Engineer's approval.

- F. If pumping process is utilized to convey concrete, established concrete mixtures may require increased proportion of cement and fine aggregate and a decreased proportion of coarse aggregate, but these mixtures may not be altered more than:

Cement	plus 20 lbs. per cubic yard
Fine Aggregate	plus 50 lbs. per cubic yard
Coarse Aggregate	minus 50 lbs. per cubic yard

2.5 CONCRETE REINFORCEMENT

- A. Reinforcing steel shall conform to ASTM Specification A 615, Grade 60; Epoxy coated, ASTM A775. Do not use uncoated reinforcing steel. Reinforcing steel shall be supplied in the shape and length required for the project without modification in the field.
- B. If the number of bars is shown on the drawings, the number given shall govern over the spacing.
- C. Splicing of bars and details not covered herein shall be in accordance with the recommendations of "Manual of Standard Practice for Detailing Reinforced Concrete Structures ACI 315."
- D. Obtain Engineer's approval of all splices not shown on the Drawings.
- E. Tie wire shall be 16-1/2 gauge or heavier zinc or plastic-coated wire.

2.6 FORMWORK

- A. Bar supports shall be Class 1 plastic coated wire bar supports or plastic bar supports.
- B. Formwork shall be sufficiently strong and stiff to prevent deflection during concrete placement.
- C. Structurally design forms to meet applicable safety regulations, OSHA regulations and other codes.
- D. Finished concrete tolerances shall be minus ¼ inch and plus ½ inch from the dimensions shown.
- E. All concrete edges shall have a formed ¾-inch chamfer, unless otherwise indicated.
- F. Forms shall be left in place a minimum of 3 days after concrete placement.
- G. Form ties shall have conical or spherical type inserts such that no metal is left within 1 inch of the concrete surface when tie ends are removed. Patch form holes with no-shrink grout.
- H. Form ties shall not be in contact with reinforcing steel. Maintain a minimum ½-inch clearance between reinforcing steel and form ties.

2.7 MATERIALS FOR CURING CONCRETE

- 1. Impervious Sheeting. ASTM C171; waterproof paper, clear or white polyethylene sheeting, or white burlap-polyethylene sheeting.
- 2. Pervious Sheeting. AASHTO M 182 Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. (305 g/sq. m) when dry.
- 3. Liquid curing compound. ASTM C309, white-pigmented, Type 2, Class B

PART 3 - EXECUTION

3.1 PREPARATION

- A. Prepare and clean previously placed concrete by cleaning with potable water and steel brush in preparation for new concrete.

3.2 PLACING CONCRETE

- A. Notify Engineer minimum of 24 hours prior to commencement of concreting operations.
- B. Do not place concrete until soil bottoms, inserts, embedded parts and other work to be built into the concrete have been inspected and approved by the Engineer and by all trades concerned.
- C. Before concrete placement, all reinforcement, anchors, and dowels shall be cleaned with pressurized potable water, to the satisfaction of Engineer. Water, dirt and debris shall be removed from within the area in which concrete is to be placed.
- D. Convey concrete from the mixer to the place of final deposit as rapidly as practicable by methods, which will prevent separation or loss of ingredients, and in a manner, which will assure that the required quality of the concrete is retained.
- E. Deposit, deliver, and place concrete so that the time lapse between batching and placement shall not exceed 90 minutes. Concrete shall not be allowed a free fall of over 4 feet. Concrete shall be deposited as nearly as practicable in its final position to avoid segregation due to rehandling or flowing.
- F. Mass Concrete: Concrete shall have an initial placement temperature less than 65 degrees Fahrenheit. Temperature may be achieved by cooling the aggregate, by chilling or fogging, or other suitable and acceptable means that will not significantly alter the moisture content of the aggregate within the stockpile. Mass Concrete should be placed in lifts as necessary to avoid excessive heat of hydration.
- G. Concrete Temperature: ASTM C 1064/C 1065M; one test hourly when air temperature is 40 degrees F (4.4 degrees C) and below and when 80 degrees F (27 degrees C) and above.
- H. Place Concrete in accordance with ACI 301.
- I. Hot Weather Placement: ACI 305.
- J. Cold Weather Placement: ACI 306.
- K. Ensure reinforcement, inserts, embedded parts, formed joints and expansion joints are not disturbed during concrete placement.

3.3 FINISHES AND EXPOSED SURFACES

- A. All concrete shall be screeded to the established elevations, then steel troweled to the finish lines on the drawings with allowable tolerance not exceeding 1/8 inch in any direction where treaded with a 10-foot long straightedge. Finishes shall be trowel, float, or broom as indicated on the Contract Drawings.
- B. Honeycombing on any exposed surface shall be patched with non-shrink grout to the approval of the Engineer.
- C. If the above requirements are not met, the Contractor shall, at its own expense, correct the conditions, as directed by the Engineer, using materials and methods approved by the Engineer.
- D. Concrete walkway surfaces shall be broom finished in one direction for a skid resistant finish.

3.4 PATCHING

- A. Patch imperfections as directed by the Engineer.

3.5 DEFECTIVE CONCRETE

- A. Modify or replace concrete not conforming to required levels and lines, details and elevations.
- B. Repair or replace concrete not properly placed or of the specified type.

3.6 FIELD QUALITY CONTROL

- A. Field inspection and testing will be performed in accordance with this specification.

3.7 CURING AND PROTECTION

- A. Immediately after placement, protect concrete from premature drying, excessively hot or cold temperatures, and mechanical injury.
- B. Forms shall remain in place for a minimum of 3 days or as approved by the Engineer.
- C. Maintain concrete with minimal moisture loss at relatively constant temperature for period necessary for hydration of cement and hardening of concrete.
- D. In lieu of moist curing for 5 days, Contractor shall provide curing agent (penetrating sealer) to concrete immediately following removal of forms.

3.8 CLEANUP

- A. Contractor shall utilize concrete washout containers in a protected upland area for concrete containment and washout.
- B. At no time shall concrete equipment be washed out into wetland resource areas.
- C. Any and all concrete spills shall be promptly cleaned up and concrete removed immediately from the site.

PART 4 - MEASUREMENT AND PAYMENT

4.1 GENERAL

- A. No separate measurement or payment will be made for work associated with this section. Include all costs for work within this section under Section 02500 Landscaping and Site Improvements, for which concrete work is required.

END OF SECTION

ATTACHMENT A – WAGE RATES



**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:	Gloucester	City/Town:	GLOUCESTER
Contract Number:	27052		
Description of Work:	Cressy Beach Revetment – Storm Damage Repair Project		
Job Location:	24 Hough Avenue, Gloucester, MA 01930		

Information about Prevailing Wage Schedules for Awarding Authorities and Contractors

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

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
(2 AXLE) DRIVER - EQUIPMENT	6/1/2026	\$41.95	\$16.17	\$21.78	\$0.00	\$0.00	\$79.90
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	\$41.95	\$16.17	\$23.52	\$0.00	\$0.00	\$81.64
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	\$41.95	\$16.77	\$23.52	\$0.00	\$0.00	\$82.24
(3 AXLE) DRIVER - EQUIPMENT	6/1/2026	\$42.02	\$16.17	\$21.78	\$0.00	\$0.00	\$79.97
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	\$42.02	\$16.17	\$23.52	\$0.00	\$0.00	\$81.71
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	\$42.02	\$16.77	\$23.52	\$0.00	\$0.00	\$82.31
(4 & 5 AXLE) DRIVER - EQUIPMENT	6/1/2026	\$42.14	\$16.17	\$21.78	\$0.00	\$0.00	\$80.09
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	\$42.14	\$16.17	\$23.52	\$0.00	\$0.00	\$81.83
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	\$42.14	\$16.77	\$23.52	\$0.00	\$0.00	\$82.43
ADS/SUBMERSIBLE PILOT	1/1/2024	\$117.16	\$10.08	\$11.62	\$12.67	\$0.00	\$151.53
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 1)							
For apprentice rates see "Apprentice- PILE DRIVER"							
AIR TRACK OPERATOR	6/1/2026	\$42.41	\$10.90	\$9.75	\$9.11	\$0.00	\$72.17
LABORERS	12/1/2026	\$43.85	\$10.90	\$9.75	\$9.11	\$0.00	\$73.61
LABORERS - ZONE 2	6/1/2027	\$45.30	\$10.90	\$9.75	\$9.11	\$0.00	\$75.06
	12/1/2027	\$46.75	\$10.90	\$9.75	\$9.11	\$0.00	\$76.51
	6/1/2028	\$48.25	\$10.90	\$9.75	\$9.11	\$0.00	\$78.01
	12/1/2028	\$49.75	\$10.90	\$9.75	\$9.11	\$0.00	\$79.51
For apprentice rates see "Apprentice- LABORER"							
AIR TRACK OPERATOR (HEAVY & HIGHWAY)	6/1/2026	\$42.41	\$10.90	\$9.75	\$9.21	\$0.00	\$72.27
LABORERS	12/1/2026	\$43.85	\$10.90	\$9.75	\$9.21	\$0.00	\$73.71
LABORERS - ZONE 2 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
ASBESTOS REMOVER - PIPE / MECH. EQUIPT.	12/1/2025	\$44.80	\$14.50	\$4.30	\$6.75	\$0.00	\$70.35
HEAT & FROST INSULATORS LOCAL 6							
HEAT & FROST INSULATORS LOCAL 6 (BOSTON)							
ASPHALT RAKER	6/1/2026	\$41.91	\$10.90	\$9.75	\$9.11	\$0.00	\$71.67
LABORERS	12/1/2026	\$43.35	\$10.90	\$9.75	\$9.11	\$0.00	\$73.11
LABORERS - ZONE 2	6/1/2027	\$44.80	\$10.90	\$9.75	\$9.11	\$0.00	\$74.56
	12/1/2027	\$46.25	\$10.90	\$9.75	\$9.11	\$0.00	\$76.01
	6/1/2028	\$47.75	\$10.90	\$9.75	\$9.11	\$0.00	\$77.51
	12/1/2028	\$49.25	\$10.90	\$9.75	\$9.11	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"							
ASPHALT RAKER (HEAVY & HIGHWAY)	6/1/2026	\$41.91	\$10.90	\$9.75	\$9.21	\$0.00	\$71.77
LABORERS	12/1/2026	\$43.35	\$10.90	\$9.75	\$9.21	\$0.00	\$73.21
LABORERS - ZONE 2 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE	6/1/2026	\$59.38	\$17.05	\$13.35	\$3.25	\$0.00	\$93.03
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.83	\$17.05	\$13.35	\$3.25	\$0.00	\$94.48
OPERATING ENGINEERS LOCAL 4							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BACKHOE/FRONT-END LOADER	6/1/2026	\$59.38	\$17.05	\$13.35	\$3.25	\$0.00	\$93.03
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.83	\$17.05	\$13.35	\$3.25	\$0.00	\$94.48
OPERATING ENGINEERS LOCAL 4							

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

BARCO-TYPE JUMPING TAMPER	6/1/2026	\$41.91	\$10.90	\$9.75	\$9.11	\$0.00	\$71.67
LABORERS	12/1/2026	\$43.35	\$10.90	\$9.75	\$9.11	\$0.00	\$73.11
LABORERS - ZONE 2	6/1/2027	\$44.80	\$10.90	\$9.75	\$9.11	\$0.00	\$74.56
	12/1/2027	\$46.25	\$10.90	\$9.75	\$9.11	\$0.00	\$76.01
	6/1/2028	\$47.75	\$10.90	\$9.75	\$9.11	\$0.00	\$77.51
	12/1/2028	\$49.25	\$10.90	\$9.75	\$9.11	\$0.00	\$79.01

For apprentice rates see "Apprentice- LABORER"

BLOCK PAVER, RAMMER / CURB SETTER	6/1/2026	\$42.41	\$10.90	\$9.75	\$9.11	\$0.00	\$72.17
LABORERS	12/1/2026	\$43.85	\$10.90	\$9.75	\$9.11	\$0.00	\$73.61
LABORERS - ZONE 2	6/1/2027	\$45.30	\$10.90	\$9.75	\$9.11	\$0.00	\$75.06
	12/1/2027	\$46.75	\$10.90	\$9.75	\$9.11	\$0.00	\$76.51
	6/1/2028	\$48.25	\$10.90	\$9.75	\$9.11	\$0.00	\$78.01
	12/1/2028	\$49.75	\$10.90	\$9.75	\$9.11	\$0.00	\$79.51

For apprentice rates see "Apprentice- LABORER"

BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY)	6/1/2026	\$42.41	\$10.90	\$9.75	\$9.21	\$0.00	\$72.27
LABORERS	12/1/2026	\$43.85	\$10.90	\$9.75	\$9.21	\$0.00	\$73.71
LABORERS - ZONE 2 (HEAVY & HIGHWAY)							

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

BOILER MAKER	1/1/2024	\$48.12	\$7.07	\$14.60	\$6.00	\$0.00	\$75.79
BOILERMAKERS LOCAL 29							
BOILERMAKERS LOCAL 29							

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

BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)	8/1/2026	\$70.15	\$12.84	\$15.57	\$8.02	\$0.00	\$106.58
BRICKLAYERS LOCAL 3	2/1/2027	\$71.55	\$12.84	\$15.57	\$8.02	\$0.00	\$107.98
BRICKLAYERS LOCAL 3 (LYNN)							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
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	\$35.08	\$12.84	\$15.57	\$8.02	\$0.00	\$71.51
2	60.00	\$42.09	\$12.84	\$15.57	\$8.02	\$0.00	\$78.52
3	70.00	\$49.11	\$12.84	\$15.57	\$8.02	\$0.00	\$85.54
4	80.00	\$56.12	\$12.84	\$15.57	\$8.02	\$0.00	\$92.55
5	90.00	\$63.14	\$12.84	\$15.57	\$8.02	\$0.00	\$99.57
Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)							
Effective Date: 2/1/2027							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$35.78	\$12.84	\$15.57	\$8.02	\$0.00	\$72.21
2	60.00	\$42.93	\$12.84	\$15.57	\$8.02	\$0.00	\$79.36
3	70.00	\$50.09	\$12.84	\$15.57	\$8.02	\$0.00	\$86.52
4	80.00	\$57.24	\$12.84	\$15.57	\$8.02	\$0.00	\$93.67
5	90.00	\$64.40	\$12.84	\$15.57	\$8.02	\$0.00	\$100.83
Apprentice to Journeyworker Ratio: 1:5							
BULLDOZER/GRADER/SCRAPER	6/1/2026	\$58.70	\$17.05	\$13.35	\$3.25	\$0.00	\$92.35
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.14	\$17.05	\$13.35	\$3.25	\$0.00	\$93.79
OPERATING ENGINEERS LOCAL 4							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
CAISSON & UNDERPINNING BOTTOM MAN	6/1/2026	\$50.40	\$10.90	\$9.75	\$9.80	\$0.00	\$80.85
LABORERS	12/1/2026	\$51.90	\$10.90	\$9.75	\$9.80	\$0.00	\$82.35
LABORERS - FOUNDATION AND MARINE							
For apprentice rates see "Apprentice- LABORER"							
CAISSON & UNDERPINNING 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							
For apprentice rates see "Apprentice- LABORER"							
CAISSON & UNDERPINNING TOP MAN	6/1/2026	\$49.58	\$10.90	\$9.75	\$9.80	\$0.00	\$80.03
LABORERS	12/1/2026	\$51.08	\$10.90	\$9.75	\$9.80	\$0.00	\$81.53
LABORERS - FOUNDATION AND MARINE							
For apprentice rates see "Apprentice- LABORER"							
CARBIDE CORE DRILL OPERATOR	6/1/2026	\$41.91	\$10.90	\$9.75	\$9.11	\$0.00	\$71.67
LABORERS	12/1/2026	\$43.35	\$10.90	\$9.75	\$9.11	\$0.00	\$73.11
LABORERS - ZONE 2	6/1/2027	\$44.80	\$10.90	\$9.75	\$9.11	\$0.00	\$74.56
	12/1/2027	\$46.25	\$10.90	\$9.75	\$9.11	\$0.00	\$76.01
	6/1/2028	\$47.75	\$10.90	\$9.75	\$9.11	\$0.00	\$77.51
	12/1/2028	\$49.25	\$10.90	\$9.75	\$9.11	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
CARPENTER	3/1/2026	\$50.85	\$11.08	\$11.47	\$8.50	\$0.00	\$81.90
CARPENTERS	9/1/2026	\$52.10	\$11.08	\$11.47	\$8.50	\$0.00	\$83.15
CARPENTERS -ZONE 2 (Eastern Massachusetts)	3/1/2027	\$53.35	\$11.08	\$11.47	\$8.50	\$0.00	\$84.40

Apprentice: CARPENTER							
Effective Date: 3/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$22.88	\$11.08	\$0.00	\$1.73	\$0.00	\$35.69
2	45.00	\$22.88	\$11.08	\$0.00	\$1.73	\$0.00	\$35.69
3	55.00	\$27.97	\$11.08	\$0.00	\$3.40	\$0.00	\$42.45
4	55.00	\$27.97	\$11.08	\$0.00	\$3.40	\$0.00	\$42.45
5	70.00	\$35.60	\$11.08	\$11.41	\$5.10	\$0.00	\$63.19
6	70.00	\$35.60	\$11.08	\$11.41	\$5.10	\$0.00	\$63.19
7	80.00	\$40.68	\$11.08	\$11.44	\$6.80	\$0.00	\$70.00
8	80.00	\$40.68	\$11.08	\$11.44	\$6.80	\$0.00	\$70.00

Apprentice: CARPENTER							
Effective Date: 9/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$23.45	\$11.08	\$0.00	\$1.73	\$0.00	\$36.26
2	45.00	\$23.45	\$11.08	\$0.00	\$1.73	\$0.00	\$36.26
3	55.00	\$28.66	\$11.08	\$0.00	\$3.40	\$0.00	\$43.14
4	55.00	\$28.66	\$11.08	\$0.00	\$3.40	\$0.00	\$43.14
5	70.00	\$36.47	\$11.08	\$11.41	\$5.10	\$0.00	\$64.06
6	70.00	\$36.47	\$11.08	\$11.41	\$5.10	\$0.00	\$64.06
7	80.00	\$41.68	\$11.08	\$11.44	\$6.80	\$0.00	\$71.00
8	80.00	\$41.68	\$11.08	\$11.44	\$6.80	\$0.00	\$71.00

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
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

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
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	\$54.49	\$13.35	\$16.43	\$7.78	\$1.80	\$93.85
PLASTERERS AND CEMENT MASONS LOCAL 534	1/1/2027	\$55.94	\$13.35	\$16.43	\$7.78	\$1.80	\$95.30
Plasterers and Cement Masons - Zone 1	7/1/2027	\$57.29	\$13.35	\$16.43	\$7.78	\$1.80	\$96.65
	1/1/2028	\$58.64	\$13.35	\$16.43	\$7.78	\$1.80	\$98.00

Apprentice: CEMENT MASONRY/PLASTERING							
Effective Date: 7/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$27.25	\$13.35	\$16.43	\$0.00	\$0.00	\$57.03
2	60.00	\$32.69	\$13.35	\$16.43	\$7.78	\$1.80	\$72.05
3	65.00	\$35.42	\$13.35	\$16.43	\$7.78	\$1.80	\$74.78
4	70.00	\$38.14	\$13.35	\$16.43	\$7.78	\$1.80	\$77.50
5	75.00	\$40.87	\$13.35	\$16.43	\$7.78	\$1.80	\$80.23
6	80.00	\$43.59	\$13.35	\$16.43	\$7.78	\$1.80	\$82.95
7	90.00	\$49.04	\$13.35	\$0.00	\$7.78	\$0.00	\$70.17

Apprentice: CEMENT MASONRY/PLASTERING							
Effective Date: 1/1/2027							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$27.97	\$13.35	\$16.43	\$0.00	\$0.00	\$57.75
2	60.00	\$33.56	\$13.35	\$16.43	\$7.78	\$1.80	\$72.92

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
3	65.00	\$36.36	\$13.35	\$16.43	\$7.78	\$1.80	\$75.72
4	70.00	\$39.16	\$13.35	\$16.43	\$7.78	\$1.80	\$78.52
5	75.00	\$41.96	\$13.35	\$16.43	\$7.78	\$1.80	\$81.32
6	80.00	\$44.75	\$13.35	\$16.43	\$7.78	\$1.80	\$84.11
7	90.00	\$50.35	\$0.00	\$16.43	\$0.00	\$0.00	\$66.78
Apprentice to Journeyworker Ratio: 1:5							
CHAIN SAW OPERATOR	6/1/2026	\$41.91	\$10.90	\$9.75	\$9.11	\$0.00	\$71.67
LABORERS	12/1/2026	\$43.35	\$10.90	\$9.75	\$9.11	\$0.00	\$73.11
LABORERS - ZONE 2	6/1/2027	\$44.80	\$10.90	\$9.75	\$9.11	\$0.00	\$74.56
	12/1/2027	\$46.25	\$10.90	\$9.75	\$9.11	\$0.00	\$76.01
	6/1/2028	\$47.75	\$10.90	\$9.75	\$9.11	\$0.00	\$77.51
	12/1/2028	\$49.25	\$10.90	\$9.75	\$9.11	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"							
CLAM SHELLS/SLURRY BUCKETS/HEADING MACHINES	6/1/2026	\$60.61	\$17.05	\$13.35	\$3.25	\$0.00	\$94.26
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$62.09	\$17.05	\$13.35	\$3.25	\$0.00	\$95.74
OPERATING ENGINEERS LOCAL 4							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
COMPRESSOR OPERATOR	6/1/2026	\$37.63	\$17.05	\$13.35	\$3.25	\$0.00	\$71.28
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$38.58	\$17.05	\$13.35	\$3.25	\$0.00	\$72.23
OPERATING ENGINEERS LOCAL 4							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
DELEADER (BRIDGE)	1/1/2026	\$59.56	\$10.35	\$12.00	\$12.60	\$0.00	\$94.51
PAINTERS LOCAL 35							
PAINTERS LOCAL 35 - ZONE 2							
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	6/1/2026	\$49.30	\$10.90	\$9.75	\$9.65	\$0.00	\$79.60

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
LABORERS	12/7/2026	\$50.80	\$10.90	\$9.75	\$9.65	\$0.00	\$81.10
LABORERS - ZONE 2	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	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 2	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	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 2	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	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 2	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 2	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 2	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"							
DIRECTIONAL DRILL MACHINE OPERATOR	6/1/2026	\$58.70	\$17.05	\$13.35	\$3.25	\$0.00	\$92.35
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.14	\$17.05	\$13.35	\$3.25	\$0.00	\$93.79
OPERATING ENGINEERS LOCAL 4							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
DIVER	8/1/2024	\$78.11	\$10.08	\$11.62	\$10.04	\$0.00	\$109.85
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 1)							
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	\$55.79	\$10.08	\$11.62	\$12.67	\$0.00	\$90.16
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 1)							
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 1)							
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 1)							
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	3/1/2026	\$66.86	\$13.00	\$14.64	\$9.00	\$0.00	\$103.50
ELECTRICIANS LOCAL 103	9/1/2026	\$68.78	\$13.00	\$14.69	\$9.00	\$0.00	\$105.47
ELECTRICIANS LOCAL 103	3/1/2027	\$69.97	\$13.00	\$14.73	\$9.00	\$0.00	\$106.70
	9/1/2027	\$71.88	\$13.00	\$14.79	\$9.00	\$0.00	\$108.67
	3/1/2028	\$73.08	\$13.00	\$14.82	\$9.00	\$0.00	\$109.90

Apprentice: ELECTRICIAN**Effective Date: 3/1/2026**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	\$26.74	\$13.00	\$0.80	\$0.00	\$0.00	\$40.54
2	40.00	\$26.74	\$13.00	\$0.80	\$0.00	\$0.00	\$40.54
3	45.00	\$30.09	\$13.00	\$13.53	\$4.05	\$0.00	\$60.67
4	45.00	\$30.09	\$13.00	\$13.53	\$4.05	\$0.00	\$60.67
5	50.00	\$33.43	\$13.00	\$13.63	\$4.50	\$0.00	\$64.56
6	55.00	\$36.77	\$13.00	\$13.73	\$4.95	\$0.00	\$68.45
7	60.00	\$40.12	\$13.00	\$13.83	\$5.40	\$0.00	\$72.35
8	65.00	\$43.46	\$13.00	\$13.93	\$5.85	\$0.00	\$76.24
9	70.00	\$46.80	\$13.00	\$14.03	\$6.30	\$0.00	\$80.13
10	75.00	\$50.15	\$13.00	\$14.13	\$6.75	\$0.00	\$84.03

Apprentice: ELECTRICIAN**Effective Date: 9/1/2026**

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: ELECTRICIAN							
Effective Date: 9/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	\$27.51	\$13.00	\$0.83	\$0.00	\$0.00	\$41.34
2	40.00	\$27.51	\$13.00	\$0.83	\$0.00	\$0.00	\$41.34
3	45.00	\$30.95	\$13.00	\$13.56	\$4.05	\$0.00	\$61.56
4	45.00	\$30.95	\$13.00	\$13.56	\$4.05	\$0.00	\$61.56
5	50.00	\$34.39	\$13.00	\$13.66	\$4.50	\$0.00	\$65.55
6	55.00	\$37.83	\$13.00	\$13.76	\$4.95	\$0.00	\$69.54
7	60.00	\$41.27	\$13.00	\$13.87	\$5.40	\$0.00	\$73.54
8	65.00	\$44.71	\$13.00	\$13.97	\$5.85	\$0.00	\$77.53
9	70.00	\$48.15	\$13.00	\$14.07	\$6.30	\$0.00	\$81.52
10	75.00	\$51.59	\$13.00	\$14.18	\$6.75	\$0.00	\$85.52

Apprentice Notes

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Apprentice to Journeyworker Ratio: 2:3

ELEVATOR CONSTRUCTOR	1/1/2026	\$77.26	\$16.38	\$11.06	\$10.70	\$0.00	\$115.40
ELEVATOR CONSTRUCTORS LOCAL 4	1/1/2027	\$80.55	\$16.48	\$11.16	\$11.00	\$0.00	\$119.19
ELEVATOR CONSTRUCTORS LOCAL 4							

Apprentice: ELEVATOR CONSTRUCTOR							
Effective Date: 1/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$38.63	\$0.00	\$0.00	\$0.00	\$0.00	\$38.63
2	55.00	\$42.49	\$16.38	\$11.06	\$10.70	\$0.00	\$80.63
3	65.00	\$50.22	\$16.38	\$11.06	\$10.70	\$0.00	\$88.36
4	70.00	\$54.08	\$16.38	\$11.06	\$10.70	\$0.00	\$92.22
5	80.00	\$61.81	\$16.38	\$11.06	\$10.70	\$0.00	\$99.95

Apprentice: ELEVATOR CONSTRUCTOR							
Effective Date: 1/1/2027							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$40.28	\$0.00	\$0.00	\$0.00	\$0.00	\$40.28
2	55.00	\$44.30	\$16.48	\$11.16	\$11.00	\$0.00	\$82.94
3	65.00	\$52.36	\$16.48	\$11.16	\$11.00	\$0.00	\$91.00
4	70.00	\$56.39	\$16.48	\$11.16	\$11.00	\$0.00	\$95.03
5	80.00	\$64.44	\$16.48	\$11.16	\$11.00	\$0.00	\$103.08

Apprentice to Journeyworker Ratio: 1:1

ELEVATOR CONSTRUCTOR HELPER	1/1/2026	\$54.08	\$16.38	\$11.06	\$10.07	\$0.00	\$91.59
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Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
ELEVATOR CONSTRUCTORS LOCAL 4	1/1/2027	\$56.39	\$16.48	\$11.16	\$11.00	\$0.00	\$95.03
ELEVATOR CONSTRUCTORS LOCAL 4							
For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"							
FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY)	6/1/2026	\$41.91	\$10.90	\$9.75	\$9.21	\$0.00	\$71.77
LABORERS	12/1/2026	\$43.35	\$10.90	\$9.75	\$9.21	\$0.00	\$73.21
LABORERS - ZONE 2 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
FIELD ENG.INST.PERSON-BLDG,SITE,HVY/HWY	5/1/2026	\$54.40	\$16.55	\$13.35	\$3.25	\$0.00	\$87.55
OPERATING ENGINEERS LOCAL 4	11/1/2026	\$55.69	\$16.55	\$13.35	\$3.25	\$0.00	\$88.84
OPERATING ENGINEERS LOCAL 4	5/1/2027	\$57.12	\$16.55	\$13.35	\$3.25	\$0.00	\$90.27
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
FIELD ENG.PARTY CHIEF-BLDG,SITE,HVY/HWY	5/1/2026	\$56.02	\$16.55	\$13.35	\$3.25	\$0.00	\$89.17
OPERATING ENGINEERS LOCAL 4	11/1/2026	\$57.32	\$16.55	\$13.35	\$3.25	\$0.00	\$90.47
OPERATING ENGINEERS LOCAL 4	5/1/2027	\$58.77	\$16.55	\$13.35	\$3.25	\$0.00	\$91.92
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
FIELD ENG.ROD PERSON-BLDG,SITE,HVY/HWY	5/1/2026	\$26.28	\$16.55	\$13.35	\$3.25	\$0.00	\$59.43
OPERATING ENGINEERS LOCAL 4	11/1/2026	\$27.04	\$16.55	\$13.35	\$3.25	\$0.00	\$60.19
OPERATING ENGINEERS LOCAL 4	5/1/2027	\$27.89	\$16.55	\$13.35	\$3.25	\$0.00	\$61.04
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
FIRE ALARM INSTALLER	3/1/2026	\$66.86	\$13.00	\$14.64	\$9.00	\$0.00	\$103.50
ELECTRICIANS LOCAL 103	9/1/2026	\$68.78	\$13.00	\$14.69	\$9.00	\$0.00	\$105.47
ELECTRICIANS LOCAL 103	3/1/2027	\$69.97	\$13.00	\$14.73	\$9.00	\$0.00	\$106.70
	9/1/2027	\$71.88	\$13.00	\$14.79	\$9.00	\$0.00	\$108.67
	3/1/2028	\$73.08	\$13.00	\$14.82	\$9.00	\$0.00	\$109.90
For apprentice rates see "Apprentice- ELECTRICIAN"							
FIRE ALARM REPAIR / MAINTENANCE	3/1/2026	\$53.49	\$13.00	\$14.23	\$7.20	\$0.00	\$87.92
/ COMMISSIONING	9/1/2026	\$55.02	\$13.00	\$14.28	\$7.20	\$0.00	\$89.50
ELECTRICIANS LOCAL 103	3/1/2027	\$55.98	\$13.00	\$14.31	\$7.20	\$0.00	\$90.49
ELECTRICIANS LOCAL 103	9/1/2027	\$57.50	\$13.00	\$14.36	\$7.20	\$0.00	\$92.06
	3/1/2028	\$58.46	\$13.00	\$14.38	\$7.20	\$0.00	\$93.04
For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"							
FIREMAN (ASST. ENGINEER)	6/1/2026	\$47.55	\$17.05	\$13.35	\$3.25	\$0.00	\$81.20
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$48.73	\$17.05	\$13.35	\$3.25	\$0.00	\$82.38
OPERATING ENGINEERS LOCAL 4							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
FLAGGER & SIGNALER (HEAVY & HIGHWAY)	6/1/2026	\$29.21	\$10.90	\$9.75	\$9.21	\$0.00	\$59.07
LABORERS	12/1/2026	\$29.21	\$10.90	\$9.75	\$9.21	\$0.00	\$59.07
LABORERS - ZONE 2 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
FLOORCOVERER	3/1/2026	\$59.24	\$10.33	\$11.47	\$8.80	\$0.00	\$89.84
FLOORCOVERERS LOCAL 2168	9/1/2026	\$60.74	\$10.33	\$11.47	\$8.80	\$0.00	\$91.34
FLOORCOVERERS LOCAL 2168 ZONE I	3/1/2027	\$62.24	\$10.33	\$11.47	\$8.80	\$0.00	\$92.84

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: FLOORCOVERER Effective Date: 3/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$26.66	\$10.33	\$0.00	\$1.76	\$0.00	\$38.75
2	45.00	\$26.66	\$10.33	\$0.00	\$1.76	\$0.00	\$38.75
3	55.00	\$32.58	\$10.33	\$0.00	\$3.52	\$0.00	\$46.43
4	55.00	\$32.58	\$10.33	\$0.00	\$3.52	\$0.00	\$46.43
5	70.00	\$41.47	\$10.33	\$11.47	\$5.28	\$0.00	\$68.55
6	70.00	\$41.47	\$10.33	\$11.47	\$5.28	\$0.00	\$68.55
7	80.00	\$47.39	\$10.33	\$11.47	\$7.04	\$0.00	\$76.23
8	80.00	\$47.39	\$10.33	\$11.47	\$7.04	\$0.00	\$76.23
Apprentice: FLOORCOVERER Effective Date: 9/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$27.33	\$10.33	\$0.00	\$1.76	\$0.00	\$39.42
2	45.00	\$27.33	\$10.33	\$0.00	\$1.76	\$0.00	\$39.42
3	55.00	\$33.41	\$10.33	\$0.00	\$3.52	\$0.00	\$47.26
4	55.00	\$33.41	\$10.33	\$0.00	\$3.52	\$0.00	\$47.26
5	70.00	\$42.52	\$10.33	\$11.47	\$5.28	\$0.00	\$69.60
6	70.00	\$42.52	\$10.33	\$11.47	\$5.28	\$0.00	\$69.60
7	80.00	\$48.59	\$10.33	\$11.47	\$7.04	\$0.00	\$77.43
8	80.00	\$48.59	\$10.33	\$11.47	\$7.04	\$0.00	\$77.43
Apprentice Notes Steps are 750 hrs.							
Apprentice to Journeyworker Ratio: 1:1							
FORK LIFT/CHERRY PICKER	6/1/2026	\$59.38	\$17.05	\$13.35	\$3.25	\$0.00	\$93.03
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.83	\$17.05	\$13.35	\$3.25	\$0.00	\$94.48
OPERATING ENGINEERS LOCAL 4							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
GENERATOR/LIGHTING PLANT/HEATERS	6/1/2026	\$37.63	\$17.05	\$13.35	\$3.25	\$0.00	\$71.28
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$38.58	\$17.05	\$13.35	\$3.25	\$0.00	\$72.23
OPERATING ENGINEERS LOCAL 4							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)	1/1/2026	\$49.06	\$10.35	\$12.00	\$12.60	\$0.00	\$84.01
GLAZIERS LOCAL 35							
GLAZIERS LOCAL 35 (ZONE 2)							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)							
Effective Date: 1/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$24.53	\$10.35	\$0.00	\$0.00	\$0.00	\$34.88
2	55.00	\$26.98	\$10.35	\$0.00	\$6.88	\$0.00	\$44.21
3	60.00	\$29.44	\$10.35	\$0.00	\$7.50	\$0.00	\$47.29
4	65.00	\$31.89	\$10.35	\$0.00	\$8.13	\$0.00	\$50.37
5	70.00	\$34.34	\$10.35	\$12.00	\$8.75	\$0.00	\$65.44
6	75.00	\$36.80	\$10.35	\$12.00	\$9.38	\$0.00	\$68.53
7	80.00	\$39.25	\$10.35	\$12.00	\$10.00	\$0.00	\$71.60
8	90.00	\$44.15	\$10.35	\$12.00	\$11.25	\$0.00	\$77.75

Apprentice to Journeyworker Ratio: 1:1

HOISTING ENGINEER/CRANES/GRADALLS	6/1/2026	\$59.38	\$17.05	\$13.35	\$3.25	\$0.00	\$93.03
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.83	\$17.05	\$13.35	\$3.25	\$0.00	\$94.48
OPERATING ENGINEERS LOCAL 4							

Apprentice: HOISTING ENGINEER/CRANES/GRADALLS							
Effective Date: 6/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	55.00	\$32.66	\$0.00	\$0.00	\$0.00	\$0.00	\$32.66
2	60.00	\$35.63	\$17.05	\$13.35	\$3.25	\$0.00	\$69.28
3	65.00	\$38.60	\$17.05	\$13.35	\$3.25	\$0.00	\$72.25
4	70.00	\$41.57	\$17.05	\$13.35	\$3.25	\$0.00	\$75.22
5	75.00	\$44.54	\$17.05	\$13.35	\$3.25	\$0.00	\$78.19
6	80.00	\$47.50	\$17.05	\$13.35	\$3.25	\$0.00	\$81.15
7	85.00	\$50.47	\$17.05	\$13.35	\$3.25	\$0.00	\$84.12
8	90.00	\$53.44	\$17.05	\$13.35	\$3.25	\$0.00	\$87.09

Apprentice: HOISTING ENGINEER/CRANES/GRADALLS							
Effective Date: 12/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	55.00	\$33.46	\$0.00	\$0.00	\$0.00	\$0.00	\$33.46
2	60.00	\$36.50	\$17.05	\$13.35	\$3.25	\$0.00	\$70.15
3	65.00	\$39.54	\$17.05	\$13.35	\$3.25	\$0.00	\$73.19
4	70.00	\$42.58	\$17.05	\$13.35	\$3.25	\$0.00	\$76.23
5	75.00	\$45.62	\$17.05	\$13.35	\$3.25	\$0.00	\$79.27
6	80.00	\$48.66	\$17.05	\$13.35	\$3.25	\$0.00	\$82.31
7	85.00	\$51.71	\$17.05	\$13.35	\$3.25	\$0.00	\$85.36
8	90.00	\$54.75	\$17.05	\$13.35	\$3.25	\$0.00	\$88.40

Apprentice to Journeyworker Ratio: 1:6

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
HVAC (DUCTWORK) SHEETMETAL WORKERS LOCAL 17 SHEETMETAL WORKERS LOCAL 17 - A	2/1/2026	\$62.93	\$14.91	\$18.74	\$9.53	\$2.98	\$109.09
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 103 ELECTRICIANS LOCAL 103	3/1/2026	\$66.86	\$13.00	\$14.64	\$9.00	\$0.00	\$103.50
	9/1/2026	\$68.78	\$13.00	\$14.69	\$9.00	\$0.00	\$105.47
	3/1/2027	\$69.97	\$13.00	\$14.73	\$9.00	\$0.00	\$106.70
	9/1/2027	\$71.88	\$13.00	\$14.79	\$9.00	\$0.00	\$108.67
	3/1/2028	\$73.08	\$13.00	\$14.82	\$9.00	\$0.00	\$109.90
For apprentice rates see "Apprentice- ELECTRICIAN"							
HVAC (TESTING AND BALANCING - AIR) SHEETMETAL WORKERS LOCAL 17 SHEETMETAL WORKERS LOCAL 17 - A	2/1/2026	\$62.93	\$14.91	\$18.74	\$9.53	\$2.98	\$109.09
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (TESTING AND BALANCING -WATER) PIPEFITTERS LOCAL 537 PIPEFITTERS LOCAL 537	3/1/2026	\$70.58	\$13.95	\$14.00	\$9.55	\$0.00	\$108.08
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HVAC MECHANIC PIPEFITTERS LOCAL 537 PIPEFITTERS LOCAL 537	3/1/2026	\$70.58	\$13.95	\$14.00	\$9.55	\$0.00	\$108.08
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HYDRAULIC DRILLS LABORERS LABORERS - ZONE 2	6/1/2026	\$42.41	\$10.90	\$9.75	\$9.11	\$0.00	\$72.17
	12/1/2026	\$43.85	\$10.90	\$9.75	\$9.11	\$0.00	\$73.61
	6/1/2027	\$45.30	\$10.90	\$9.75	\$9.11	\$0.00	\$75.06
	12/1/2027	\$46.75	\$10.90	\$9.75	\$9.11	\$0.00	\$76.51
	6/1/2028	\$48.25	\$10.90	\$9.75	\$9.11	\$0.00	\$78.01
	12/1/2028	\$49.75	\$10.90	\$9.75	\$9.11	\$0.00	\$79.51
For apprentice rates see "Apprentice- LABORER"							
HYDRAULIC DRILLS (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 2 (HEAVY & HIGHWAY)	6/1/2026	\$42.41	\$10.90	\$9.75	\$9.21	\$0.00	\$72.27
	12/1/2026	\$43.85	\$10.90	\$9.75	\$9.21	\$0.00	\$73.71
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
INSULATOR (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 HEAT & FROST INSULATORS LOCAL 6 (BOSTON)	9/1/2025	\$60.34	\$14.75	\$9.52	\$10.09	\$0.00	\$94.70
	9/1/2026	\$63.76	\$14.75	\$9.52	\$10.09	\$0.00	\$98.12

Apprentice: INSULATOR (PIPES & TANKS)**Effective Date: 9/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$30.17	\$14.75	\$9.27	\$5.05	\$0.00	\$59.24
2	60.00	\$36.20	\$14.75	\$9.32	\$6.05	\$0.00	\$66.32
3	70.00	\$42.24	\$14.75	\$9.37	\$7.06	\$0.00	\$73.42

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
4	80.00	\$48.27	\$14.75	\$9.42	\$8.07	\$0.00	\$80.51
Apprentice: INSULATOR (PIPES & TANKS) Effective Date: 9/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$31.88	\$14.75	\$9.27	\$5.05	\$0.00	\$60.95
2	60.00	\$38.26	\$14.75	\$9.32	\$6.05	\$0.00	\$68.38
3	70.00	\$44.63	\$14.75	\$9.37	\$7.06	\$0.00	\$75.81
4	80.00	\$51.01	\$14.75	\$9.42	\$8.07	\$0.00	\$83.25
Apprentice to Journeyworker Ratio: 1:4							
IRONWORKER/WELDER IRONWORKERS LOCAL 7 IRONWORKERS LOCAL 7 (BOSTON AREA)	3/16/2026	\$58.65	\$9.25	\$12.75	\$15.00	\$0.00	\$95.65
Apprentice: IRONWORKER/WELDER Effective Date: 3/16/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	70.00	\$41.06	\$9.25	\$12.75	\$5.00	\$0.00	\$68.06
2	80.00	\$46.92	\$9.25	\$12.75	\$5.00	\$0.00	\$73.92
3	90.00	\$52.79	\$9.25	\$12.75	\$5.00	\$0.00	\$79.79
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 2	6/1/2026	\$41.91	\$10.90	\$9.75	\$9.11	\$0.00	\$71.67
	12/1/2026	\$43.35	\$10.90	\$9.75	\$9.11	\$0.00	\$73.11
	6/1/2027	\$44.80	\$10.90	\$9.75	\$9.11	\$0.00	\$74.56
	12/1/2027	\$46.25	\$10.90	\$9.75	\$9.11	\$0.00	\$76.01
	6/1/2028	\$47.75	\$10.90	\$9.75	\$9.11	\$0.00	\$77.51
	12/1/2028	\$49.25	\$10.90	\$9.75	\$9.11	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"							
LABORER LABORERS LABORERS - ZONE 2	6/1/2026	\$41.66	\$10.90	\$9.75	\$9.11	\$0.00	\$71.42
	12/1/2026	\$43.10	\$10.90	\$9.75	\$9.11	\$0.00	\$72.86
	6/1/2027	\$44.55	\$10.90	\$9.75	\$9.11	\$0.00	\$74.31
	12/1/2027	\$46.00	\$10.90	\$9.75	\$9.11	\$0.00	\$75.76
	6/1/2028	\$47.50	\$10.90	\$9.75	\$9.11	\$0.00	\$77.26
	12/1/2028	\$49.00	\$10.90	\$9.75	\$9.11	\$0.00	\$78.76

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: LABORER Effective Date: 6/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$25.00	\$10.90	\$9.75	\$9.11	\$0.00	\$54.76
2	70.00	\$29.16	\$10.90	\$9.75	\$9.11	\$0.00	\$58.92
3	80.00	\$33.33	\$10.90	\$9.75	\$9.11	\$0.00	\$63.09
4	90.00	\$37.49	\$10.90	\$9.75	\$9.11	\$0.00	\$67.25
Apprentice: LABORER Effective Date: 12/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$25.86	\$10.90	\$9.75	\$9.11	\$0.00	\$55.62
2	70.00	\$30.17	\$10.90	\$9.75	\$9.11	\$0.00	\$59.93
3	80.00	\$34.48	\$10.90	\$9.75	\$9.11	\$0.00	\$64.24
4	90.00	\$38.79	\$10.90	\$9.75	\$9.11	\$0.00	\$68.55
Apprentice to Journeyworker Ratio: 1:5							
LABORER (HEAVY & HIGHWAY)	6/1/2026	\$41.66	\$10.90	\$9.75	\$9.21	\$0.00	\$71.52
LABORERS	12/1/2026	\$43.10	\$10.90	\$9.75	\$9.21	\$0.00	\$72.96
LABORERS - ZONE 2 (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	\$25.00	\$10.90	\$9.75	\$9.21	\$0.00	\$54.86
2	70.00	\$29.16	\$10.90	\$9.75	\$9.21	\$0.00	\$59.02
3	80.00	\$33.33	\$10.90	\$9.75	\$9.21	\$0.00	\$63.19
4	90.00	\$37.49	\$10.90	\$9.75	\$9.10	\$0.00	\$67.24
Apprentice: LABORER (HEAVY & HIGHWAY) Effective Date: 12/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$25.86	\$10.90	\$9.75	\$9.21	\$0.00	\$55.72
2	70.00	\$30.17	\$10.90	\$9.75	\$9.21	\$0.00	\$60.03
3	80.00	\$34.48	\$10.90	\$9.75	\$9.21	\$0.00	\$64.34
4	90.00	\$38.79	\$10.90	\$9.75	\$9.21	\$0.00	\$68.65
Apprentice to Journeyworker Ratio: 1:5							
LABORER: CARPENTER TENDER	6/1/2026	\$41.66	\$10.90	\$9.75	\$9.11	\$0.00	\$71.42

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
LABORERS	12/1/2026	\$43.10	\$10.90	\$9.75	\$9.11	\$0.00	\$72.86
LABORERS - ZONE 2	6/1/2027	\$44.55	\$10.90	\$9.75	\$9.11	\$0.00	\$74.31
	12/1/2027	\$46.00	\$10.90	\$9.75	\$9.11	\$0.00	\$75.76
	6/1/2028	\$47.50	\$10.90	\$9.75	\$9.11	\$0.00	\$77.26
	12/1/2028	\$49.00	\$10.90	\$9.75	\$9.11	\$0.00	\$78.76
For apprentice rates see "Apprentice- LABORER"							
LABORER: CEMENT FINISHER TENDER	6/1/2026	\$41.66	\$10.90	\$9.75	\$9.11	\$0.00	\$71.42
LABORERS	12/1/2026	\$43.10	\$10.90	\$9.75	\$9.11	\$0.00	\$72.86
LABORERS - ZONE 2	6/1/2027	\$44.55	\$10.90	\$9.75	\$9.11	\$0.00	\$74.31
	12/1/2027	\$46.00	\$10.90	\$9.75	\$9.11	\$0.00	\$75.76
	6/1/2028	\$47.50	\$10.90	\$9.75	\$9.11	\$0.00	\$77.26
	12/1/2028	\$49.00	\$10.90	\$9.75	\$9.11	\$0.00	\$78.76
For apprentice rates see "Apprentice- LABORER"							
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER	6/1/2026	\$41.75	\$10.90	\$9.75	\$9.65	\$0.00	\$72.05
LABORERS	12/7/2026	\$43.19	\$10.90	\$9.75	\$9.65	\$0.00	\$73.49
LABORERS - ZONE 2	6/7/2027	\$44.64	\$10.90	\$9.75	\$9.65	\$0.00	\$74.94
	12/6/2027	\$46.09	\$10.90	\$9.75	\$9.65	\$0.00	\$76.39
	6/5/2028	\$47.59	\$10.90	\$9.75	\$9.65	\$0.00	\$77.89
	12/4/2028	\$49.09	\$10.90	\$9.75	\$9.65	\$0.00	\$79.39
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER	6/1/2026	\$41.91	\$10.90	\$9.75	\$9.11	\$0.00	\$71.67
LABORERS	12/1/2026	\$43.35	\$10.90	\$9.75	\$9.11	\$0.00	\$73.11
LABORERS - ZONE 2	6/1/2027	\$44.80	\$10.90	\$9.75	\$9.11	\$0.00	\$74.56
	12/1/2027	\$46.25	\$10.90	\$9.75	\$9.11	\$0.00	\$76.01
	6/1/2028	\$47.75	\$10.90	\$9.75	\$9.11	\$0.00	\$77.51
	12/1/2028	\$49.25	\$10.90	\$9.75	\$9.11	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER (HEAVY & HIGHWAY)	6/1/2026	\$41.91	\$10.90	\$9.75	\$9.21	\$0.00	\$71.77
LABORERS	12/1/2026	\$43.35	\$10.90	\$9.75	\$9.21	\$0.00	\$73.21
LABORERS - ZONE 2 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
LABORER: MULTI-TRADE TENDER	6/1/2026	\$41.66	\$10.90	\$9.75	\$9.11	\$0.00	\$71.42
LABORERS	12/1/2026	\$43.10	\$10.90	\$9.75	\$9.11	\$0.00	\$72.86
LABORERS - ZONE 2	6/1/2027	\$44.55	\$10.90	\$9.75	\$9.11	\$0.00	\$74.31
	12/1/2027	\$46.00	\$10.90	\$9.75	\$9.11	\$0.00	\$75.76
	6/1/2028	\$47.50	\$10.90	\$9.75	\$9.11	\$0.00	\$77.26
	12/1/2028	\$49.00	\$10.90	\$9.75	\$9.11	\$0.00	\$78.76
For apprentice rates see "Apprentice- LABORER"							
LABORER: TREE REMOVER	6/1/2026	\$41.66	\$10.90	\$9.75	\$9.11	\$0.00	\$71.42
LABORERS	12/1/2026	\$43.10	\$10.90	\$9.75	\$9.11	\$0.00	\$72.86
LABORERS - ZONE 2	6/1/2027	\$44.55	\$10.90	\$9.75	\$9.11	\$0.00	\$74.31
	12/1/2027	\$46.00	\$10.90	\$9.75	\$9.11	\$0.00	\$75.76
	6/1/2028	\$47.50	\$10.90	\$9.75	\$9.11	\$0.00	\$77.26
	12/1/2028	\$49.00	\$10.90	\$9.75	\$9.11	\$0.00	\$78.76

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

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
incidental to construction . For apprentice rates see "Apprentice- LABORER"							
LASER BEAM OPERATOR	6/1/2026	\$41.91	\$10.90	\$9.75	\$9.11	\$0.00	\$71.67
LABORERS	12/1/2026	\$43.35	\$10.90	\$9.75	\$9.11	\$0.00	\$73.11
LABORERS - ZONE 2	6/1/2027	\$44.80	\$10.90	\$9.75	\$9.11	\$0.00	\$74.56
	12/1/2027	\$46.25	\$10.90	\$9.75	\$9.11	\$0.00	\$76.01
	6/1/2028	\$47.75	\$10.90	\$9.75	\$9.11	\$0.00	\$77.51
	12/1/2028	\$49.25	\$10.90	\$9.75	\$9.11	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"							
LASER BEAM OPERATOR (HEAVY & HIGHWAY)	6/1/2026	\$41.91	\$10.90	\$9.75	\$9.21	\$0.00	\$71.77
LABORERS	12/1/2026	\$43.35	\$10.90	\$9.75	\$9.21	\$0.00	\$73.21
LABORERS - ZONE 2 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
MARBLE & TILE FINISHERS	8/1/2026	\$53.84	\$12.84	\$15.57	\$5.78	\$0.00	\$88.03
BRICKLAYERS LOCAL 3	2/1/2027	\$54.96	\$12.84	\$15.57	\$5.78	\$0.00	\$89.15
BRICKLAYERS LOCAL 3 - MARBLE & TILE							

Apprentice: MARBLE & TILE FINISHERS							
Effective Date: 8/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$26.92	\$12.84	\$15.57	\$5.78	\$0.00	\$61.11
2	60.00	\$32.30	\$12.84	\$15.57	\$5.78	\$0.00	\$66.49
3	70.00	\$37.69	\$12.84	\$15.57	\$5.78	\$0.00	\$71.88
4	80.00	\$43.07	\$12.84	\$15.57	\$5.78	\$0.00	\$77.26
5	90.00	\$48.46	\$12.84	\$15.57	\$5.78	\$0.00	\$82.65

Apprentice: MARBLE & TILE FINISHERS							
Effective Date: 2/1/2027							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$27.48	\$12.84	\$15.57	\$5.78	\$0.00	\$61.67
2	60.00	\$32.98	\$12.84	\$15.57	\$5.78	\$0.00	\$67.17
3	70.00	\$38.47	\$12.84	\$15.57	\$5.78	\$0.00	\$72.66
4	80.00	\$43.97	\$12.84	\$15.57	\$5.78	\$0.00	\$78.16
5	90.00	\$49.46	\$12.84	\$15.57	\$5.78	\$0.00	\$83.65

Apprentice to Journeyworker Ratio: 1:5

MARBLE MASONS,TILELAYERS & TERRAZZO MECH	8/1/2026	\$70.17	\$12.84	\$15.57	\$7.99	\$0.00	\$106.57
BRICKLAYERS LOCAL 3	2/1/2027	\$71.57	\$12.84	\$15.57	\$7.99	\$0.00	\$107.97
BRICKLAYERS LOCAL 3 - MARBLE & TILE							

Apprentice: MARBLE MASONS,TILELAYERS & TERRAZZO MECH							
Effective Date: 8/1/2026							
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: MARBLE MASONS,TILELAYERS & TERRAZZO MECH 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
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: MARBLE MASONS,TILELAYERS & TERRAZZO MECH Effective Date: 2/1/2027							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$35.79	\$12.84	\$15.57	\$7.99	\$0.00	\$72.19
2	60.00	\$42.94	\$12.84	\$15.57	\$7.99	\$0.00	\$79.34
3	70.00	\$50.10	\$12.84	\$15.57	\$7.99	\$0.00	\$86.50
4	80.00	\$57.26	\$12.84	\$15.57	\$7.99	\$0.00	\$93.66
5	90.00	\$64.41	\$12.84	\$15.57	\$7.99	\$0.00	\$100.81
Apprentice to Journeyworker Ratio: 1:5							
MECH. SWEEPER OPERATOR (ON CONST. SITES)	6/1/2026	\$58.70	\$17.05	\$13.35	\$3.25	\$0.00	\$92.35
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.14	\$17.05	\$13.35	\$3.25	\$0.00	\$93.79
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
MECHANICS MAINTENANCE	6/1/2026	\$58.70	\$17.05	\$13.35	\$3.25	\$0.00	\$92.35
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.14	\$17.05	\$13.35	\$3.25	\$0.00	\$93.79
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
MILLWRIGHT (Zone 2)	1/5/2026	\$46.86	\$10.58	\$11.47	\$10.00	\$0.00	\$78.91
MILLWRIGHTS LOCAL 1121							
MILLWRIGHTS LOCAL 1121 - Zone 2							

Apprentice: MILLWRIGHT (Zone 2) Effective Date: 1/5/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	55.00	\$25.77	\$10.58	\$0.00	\$5.50	\$0.00	\$41.85
2	65.00	\$30.46	\$10.58	\$0.00	\$6.50	\$0.00	\$47.54
3	75.00	\$35.15	\$10.58	\$11.47	\$7.50	\$0.00	\$64.70
4	85.00	\$39.83	\$10.58	\$11.47	\$8.50	\$0.00	\$70.38

Apprentice Notes

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

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice to Journeyworker Ratio: 1:4							
MORTAR MIXER	6/1/2026	\$41.91	\$10.90	\$9.75	\$9.11	\$0.00	\$71.67
LABORERS	12/1/2026	\$43.35	\$10.90	\$9.75	\$9.11	\$0.00	\$73.11
LABORERS - ZONE 2	6/1/2027	\$44.80	\$10.90	\$9.75	\$9.11	\$0.00	\$74.56
	12/1/2027	\$46.25	\$10.90	\$9.75	\$9.11	\$0.00	\$76.01
	6/1/2028	\$47.75	\$10.90	\$9.75	\$9.11	\$0.00	\$77.51
	12/1/2028	\$49.25	\$10.90	\$9.75	\$9.11	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"							
OILER (OTHER THAN TRUCK CRANES,GRADALLS)	6/1/2026	\$25.07	\$17.05	\$13.35	\$3.25	\$0.00	\$58.72
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$25.74	\$17.05	\$13.35	\$3.25	\$0.00	\$59.39
OPERATING ENGINEERS LOCAL 4							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
OILER (TRUCK CRANES, GRADALLS)	6/1/2026	\$31.17	\$17.05	\$13.35	\$3.25	\$0.00	\$64.82
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$31.97	\$17.05	\$13.35	\$3.25	\$0.00	\$65.62
OPERATING ENGINEERS LOCAL 4							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
OTHER POWER DRIVEN EQUIPMENT - CLASS II	6/1/2026	\$58.70	\$17.05	\$13.35	\$3.25	\$0.00	\$92.35
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.14	\$17.05	\$13.35	\$3.25	\$0.00	\$93.79
OPERATING ENGINEERS LOCAL 4							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
PAINTER (BRIDGES/TANKS)	1/1/2026	\$59.56	\$10.35	\$12.00	\$12.50	\$0.00	\$94.41
PAINTERS LOCAL 35							
PAINTERS LOCAL 35 - ZONE 2							

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	\$50.46	\$10.35	\$12.00	\$12.60	\$0.00	\$85.41
* 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 2							

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
1	50.00	\$25.23	\$10.35	\$0.00	\$0.00	\$0.00	\$35.58
2	55.00	\$27.75	\$10.35	\$0.00	\$6.93	\$0.00	\$45.03
3	60.00	\$30.28	\$10.35	\$0.00	\$7.56	\$0.00	\$48.19
4	65.00	\$32.80	\$10.35	\$0.00	\$8.19	\$0.00	\$51.34
5	70.00	\$35.32	\$10.35	\$12.00	\$8.82	\$0.00	\$66.49
6	75.00	\$37.85	\$10.35	\$12.00	\$9.45	\$0.00	\$69.65
7	80.00	\$40.37	\$10.35	\$12.00	\$10.08	\$0.00	\$72.80
8	90.00	\$45.41	\$10.35	\$12.00	\$11.34	\$0.00	\$79.10

Apprentice to Journeyworker Ratio: 1:1

PAINTER (SPRAY OR SANDBLAST, REPAINT)	1/1/2026	\$48.52	\$10.35	\$12.00	\$12.60	\$0.00	\$83.47
PAINTERS LOCAL 35							
PAINTERS LOCAL 35 - ZONE 2							

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	\$24.26	\$10.35	\$0.00	\$0.00	\$0.00	\$34.61
2	55.00	\$26.69	\$10.35	\$0.00	\$6.93	\$0.00	\$43.97
3	60.00	\$29.11	\$10.35	\$0.00	\$7.56	\$0.00	\$47.02
4	65.00	\$31.54	\$10.35	\$0.00	\$8.19	\$0.00	\$50.08
5	70.00	\$33.96	\$10.35	\$12.00	\$8.82	\$0.00	\$65.13
6	75.00	\$36.39	\$10.35	\$12.00	\$9.45	\$0.00	\$68.19
7	80.00	\$38.82	\$10.35	\$12.00	\$10.08	\$0.00	\$71.25
8	90.00	\$43.67	\$10.35	\$12.00	\$11.34	\$0.00	\$77.36

Apprentice to Journeyworker Ratio: 1:1

PAINTER / TAPER (BRUSH, NEW) *	1/1/2026	\$49.06	\$10.35	\$12.00	\$12.60	\$0.00	\$84.01
* 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 2							

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	\$24.53	\$10.35	\$0.00	\$0.00	\$0.00	\$34.88
2	55.00	\$26.98	\$10.35	\$0.00	\$6.93	\$0.00	\$44.26
3	60.00	\$29.44	\$10.35	\$0.00	\$7.56	\$0.00	\$47.35

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
4	65.00	\$31.89	\$10.35	\$0.00	\$8.19	\$0.00	\$50.43
5	70.00	\$34.34	\$10.35	\$12.00	\$8.82	\$0.00	\$65.51
6	75.00	\$36.80	\$10.35	\$12.00	\$9.45	\$0.00	\$68.60
7	80.00	\$39.25	\$10.35	\$12.00	\$10.08	\$0.00	\$71.68
8	90.00	\$44.15	\$10.35	\$12.00	\$11.34	\$0.00	\$77.84
Apprentice to Journeyworker Ratio: 1:1							
PAINTER / TAPER (BRUSH, REPAINT)	1/1/2026	\$47.12	\$10.35	\$12.00	\$12.60	\$0.00	\$82.07
PAINTERS LOCAL 35							
PAINTERS LOCAL 35 - ZONE 2							
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	\$23.56	\$10.35	\$0.00	\$0.00	\$0.00	\$33.91
2	55.00	\$25.92	\$10.35	\$0.00	\$6.93	\$0.00	\$43.20
3	60.00	\$28.27	\$10.35	\$0.00	\$7.56	\$0.00	\$46.18
4	65.00	\$30.63	\$10.35	\$0.00	\$8.19	\$0.00	\$49.17
5	70.00	\$32.98	\$10.35	\$12.00	\$8.82	\$0.00	\$64.15
6	75.00	\$35.34	\$10.35	\$12.00	\$9.45	\$0.00	\$67.14
7	80.00	\$37.70	\$10.35	\$12.00	\$10.08	\$0.00	\$70.13
8	90.00	\$42.41	\$10.35	\$12.00	\$11.34	\$0.00	\$76.10
Apprentice to Journeyworker Ratio: 1:1							
PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY)	6/1/2026	\$41.66	\$10.90	\$9.75	\$9.21	\$0.00	\$71.52
LABORERS							
LABORERS - ZONE 2 (HEAVY & HIGHWAY)	12/1/2026	\$43.10	\$10.90	\$9.75	\$9.21	\$0.00	\$72.96
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
PANEL & PICKUP TRUCKS DRIVER	6/1/2026	\$41.78	\$16.17	\$21.78	\$0.00	\$0.00	\$79.73
TEAMSTERS JOINT COUNCIL NO. 10							
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	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 1)	8/1/2024	\$55.79	\$10.08	\$11.62	\$12.67	\$0.00	\$90.16
For apprentice rates see "Apprentice- PILE DRIVER"							
PILE DRIVER							
PILE DRIVER LOCAL 56	8/1/2024	\$55.79	\$10.08	\$11.62	\$12.67	\$0.00	\$90.16
PILE DRIVER LOCAL 56 (ZONE 1)							

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	\$25.11	\$10.08	\$0.00	\$2.53	\$0.00	\$37.72
2	55.00	\$30.68	\$10.08	\$0.00	\$5.07	\$0.00	\$45.83
3	70.00	\$39.05	\$10.08	\$11.62	\$7.60	\$0.00	\$68.35
4	80.00	\$44.63	\$10.08	\$11.62	\$10.14	\$0.00	\$76.47
Apprentice to Journeyworker Ratio: 1:5							
PIPEFITTER & STEAMFITTER	3/1/2026	\$70.58	\$13.95	\$14.00	\$9.55	\$0.00	\$108.08
PIPEFITTERS LOCAL 537							
PIPEFITTERS LOCAL 537							
Apprentice: PIPEFITTER & STEAMFITTER Effective Date: 3/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	\$28.23	\$13.95	\$0.30	\$9.55	\$0.00	\$52.03
2	45.00	\$31.76	\$13.95	\$14.00	\$9.55	\$0.00	\$69.26
3	60.00	\$42.35	\$13.95	\$14.00	\$9.55	\$0.00	\$79.85
4	70.00	\$49.41	\$13.95	\$14.00	\$9.55	\$0.00	\$86.91
5	80.00	\$56.46	\$13.95	\$14.00	\$9.55	\$0.00	\$93.96
Apprentice to Journeyworker Ratio: 1:3							
PIPELAYER	6/1/2026	\$41.91	\$10.90	\$9.75	\$9.11	\$0.00	\$71.67
LABORERS	12/1/2026	\$43.35	\$10.90	\$9.75	\$9.11	\$0.00	\$73.11
LABORERS - ZONE 2	6/1/2027	\$44.80	\$10.90	\$9.75	\$9.11	\$0.00	\$74.56
	12/1/2027	\$46.25	\$10.90	\$9.75	\$9.11	\$0.00	\$76.01
	6/1/2028	\$47.75	\$10.90	\$9.75	\$9.11	\$0.00	\$77.51
	12/1/2028	\$49.25	\$10.90	\$9.75	\$9.11	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"							
PIPELAYER (HEAVY & HIGHWAY)	6/1/2026	\$41.91	\$10.90	\$9.75	\$9.21	\$0.00	\$71.77
LABORERS	12/1/2026	\$43.35	\$10.90	\$9.75	\$9.21	\$0.00	\$73.21
LABORERS - ZONE 2 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PLUMBERS & GASFITTERS	3/2/2026	\$72.64	\$15.32	\$12.61	\$8.00	\$0.00	\$108.57
PLUMBERS & GASFITTERS LOCAL 12	8/31/2026	\$74.79	\$15.32	\$12.61	\$8.00	\$0.00	\$110.72
PLUMBERS & GASFITTERS LOCAL 12	3/1/2027	\$76.94	\$15.32	\$12.61	\$8.00	\$0.00	\$112.87
	8/30/2027	\$79.09	\$15.32	\$12.61	\$8.00	\$0.00	\$115.02
	2/28/2028	\$81.29	\$15.32	\$12.61	\$8.00	\$0.00	\$117.22
	9/4/2028	\$83.49	\$15.32	\$12.61	\$8.00	\$0.00	\$119.42
	3/5/2029	\$85.69	\$15.32	\$12.61	\$8.00	\$0.00	\$121.62
	9/3/2029	\$87.89	\$15.32	\$12.61	\$8.00	\$0.00	\$123.82
	3/4/2030	\$89.84	\$15.32	\$12.61	\$8.00	\$0.00	\$125.77

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: PLUMBERS & GASFITTERS Effective Date: 3/2/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	35.00	\$25.42	\$15.32	\$4.61	\$2.80	\$0.00	\$48.15
2	40.00	\$29.06	\$15.32	\$5.22	\$3.20	\$0.00	\$52.80
3	55.00	\$39.95	\$15.32	\$7.07	\$4.40	\$0.00	\$66.74
4	65.00	\$47.22	\$15.32	\$8.30	\$5.20	\$0.00	\$76.04
5	75.00	\$54.48	\$15.32	\$9.53	\$6.00	\$0.00	\$85.33
Apprentice: PLUMBERS & GASFITTERS Effective Date: 8/31/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	35.00	\$26.18	\$15.32	\$4.61	\$2.80	\$0.00	\$48.91
2	40.00	\$29.92	\$15.32	\$5.22	\$3.20	\$0.00	\$53.66
3	55.00	\$41.13	\$15.32	\$7.07	\$5.20	\$0.00	\$68.72
4	65.00	\$48.61	\$15.32	\$8.30	\$5.20	\$0.00	\$77.43
5	75.00	\$56.09	\$15.32	\$9.53	\$6.00	\$0.00	\$86.94
Apprentice to Journeyworker Ratio: 1:2							
PNEUMATIC CONTROLS (TEMP.)	3/1/2026	\$70.58	\$13.95	\$14.00	\$9.55	\$0.00	\$108.08
PIPEFITTERS LOCAL 537							
PIPEFITTERS LOCAL 537							
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
PNEUMATIC DRILL/TOOL OPERATOR	6/1/2026	\$41.91	\$10.90	\$9.75	\$9.11	\$0.00	\$71.67
LABORERS	12/1/2026	\$43.35	\$10.90	\$9.75	\$9.11	\$0.00	\$73.11
LABORERS - ZONE 2	6/1/2027	\$44.80	\$10.90	\$9.75	\$9.11	\$0.00	\$74.56
	12/1/2027	\$46.25	\$10.90	\$9.75	\$9.11	\$0.00	\$76.01
	6/1/2028	\$47.75	\$10.90	\$9.75	\$9.11	\$0.00	\$77.51
	12/1/2028	\$49.25	\$10.90	\$9.75	\$9.11	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"							
PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY)	6/1/2026	\$41.91	\$10.90	\$9.75	\$9.21	\$0.00	\$71.77
LABORERS	12/1/2026	\$43.35	\$10.90	\$9.75	\$9.21	\$0.00	\$73.21
LABORERS - ZONE 2 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
POWDERMAN & BLASTER	6/1/2026	\$42.66	\$10.90	\$9.75	\$9.11	\$0.00	\$72.42
LABORERS	12/1/2026	\$44.10	\$10.90	\$9.75	\$9.11	\$0.00	\$73.86
LABORERS - ZONE 2	6/1/2027	\$45.55	\$10.90	\$9.75	\$9.11	\$0.00	\$75.31
	12/1/2027	\$47.00	\$10.90	\$9.75	\$9.11	\$0.00	\$76.76
	6/1/2028	\$48.50	\$10.90	\$9.75	\$9.11	\$0.00	\$78.26
	12/1/2028	\$50.00	\$10.90	\$9.75	\$9.11	\$0.00	\$79.76
For apprentice rates see "Apprentice- LABORER"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
POWDERMAN & BLASTER (HEAVY & HIGHWAY)	6/1/2026	\$42.66	\$10.90	\$9.75	\$9.21	\$0.00	\$72.52
LABORERS	12/1/2026	\$44.10	\$10.90	\$9.75	\$9.21	\$0.00	\$73.96
LABORERS - ZONE 2 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
POWER SHOVEL/DERRICK/TRENCHING MACHINE	6/1/2026	\$59.38	\$17.05	\$13.35	\$3.25	\$0.00	\$93.03
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.83	\$17.05	\$13.35	\$3.25	\$0.00	\$94.48
OPERATING ENGINEERS LOCAL 4							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
PUMP OPERATOR (CONCRETE)	6/1/2026	\$58.70	\$17.05	\$13.35	\$3.25	\$0.00	\$92.35
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.14	\$17.05	\$13.35	\$3.25	\$0.00	\$93.79
OPERATING ENGINEERS LOCAL 4							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
PUMP OPERATOR (DEWATERING, OTHER)	6/1/2026	\$37.63	\$17.05	\$13.35	\$3.25	\$0.00	\$71.28
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$38.58	\$17.05	\$13.35	\$3.25	\$0.00	\$72.23
OPERATING ENGINEERS LOCAL 4							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
READY-MIX CONCRETE DRIVER	5/1/2026	\$30.50	\$12.00	\$7.00	\$0.00	\$0.00	\$49.50
TEAMSTERS 42 - J.G. MacLeallan (Wakefield)							
TEAMSTERS 42 - J.G. MacLeallan (Wakefield)							
RECLAIMERS	6/1/2026	\$58.70	\$17.05	\$13.35	\$3.25	\$0.00	\$92.35
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.14	\$17.05	\$13.35	\$3.25	\$0.00	\$93.79
OPERATING ENGINEERS LOCAL 4							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
RIDE-ON MOTORIZED BUGGY OPERATOR	6/1/2026	\$41.91	\$10.90	\$9.75	\$9.11	\$0.00	\$71.67
LABORERS	12/1/2026	\$43.35	\$10.90	\$9.75	\$9.11	\$0.00	\$73.11
LABORERS - ZONE 2	6/1/2027	\$44.80	\$10.90	\$9.75	\$9.11	\$0.00	\$74.56
	12/1/2027	\$46.25	\$10.90	\$9.75	\$9.11	\$0.00	\$76.01
	6/1/2028	\$47.75	\$10.90	\$9.75	\$9.11	\$0.00	\$77.51
	12/1/2028	\$49.25	\$10.90	\$9.75	\$9.11	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"							
ROLLER/SPREADER/MULCHING MACHINE	6/1/2026	\$58.70	\$17.05	\$13.35	\$3.25	\$0.00	\$92.35
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.14	\$17.05	\$13.35	\$3.25	\$0.00	\$93.79
OPERATING ENGINEERS LOCAL 4							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
ROOFER (Inc.Roofer Waterproofng &Roofer Damproofg)	2/1/2026	\$53.53	\$14.53	\$12.67	\$9.03	\$0.00	\$89.76
ROOFERS LOCAL 33							
ROOFERS LOCAL 33							

Apprentice: ROOFER (Inc.Roofer Waterproofng &Roofer Damproofg)**Effective Date: 2/1/2026**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$26.77	\$14.53	\$6.52	\$9.03	\$0.00	\$56.85
2	60.00	\$32.12	\$14.53	\$12.67	\$9.03	\$0.00	\$68.35

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: ROOFER (Inc.Roofers Waterproofing &Roofers Damproofg) Effective Date: 2/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
3	65.00	\$34.79	\$14.53	\$12.67	\$9.03	\$0.00	\$71.02
4	75.00	\$40.15	\$14.53	\$12.67	\$9.03	\$0.00	\$76.38
5	85.00	\$45.50	\$14.53	\$12.67	\$9.03	\$0.00	\$81.73
Apprentice Notes ** 1:5, 2:6-10, the 1:10; Reroofing: 1:4, then 1:1							
Apprentice to Journeyworker Ratio: 1:5							
ROOFER SLATE / TILE / PRECAST CONCRETE	2/1/2026	\$53.78	\$14.53	\$12.67	\$9.03	\$0.00	\$90.01
ROOFERS LOCAL 33							
ROOFERS LOCAL 33							
For apprentice rates see "Apprentice- ROOFER"							
SHEETMETAL WORKER	2/1/2026	\$62.93	\$14.91	\$18.74	\$9.53	\$2.98	\$109.09
SHEETMETAL WORKERS LOCAL 17							
SHEETMETAL WORKERS LOCAL 17 - A							
Apprentice: SHEETMETAL WORKER Effective Date: 2/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	42.00	\$26.43	\$14.91	\$6.19	\$0.00	\$0.00	\$47.53
2	42.00	\$26.43	\$14.91	\$6.19	\$0.00	\$0.00	\$47.53
3	47.00	\$29.58	\$14.91	\$10.93	\$1.25	\$1.62	\$58.29
4	47.00	\$29.58	\$14.91	\$10.93	\$1.25	\$1.62	\$58.29
5	52.00	\$32.72	\$14.91	\$11.66	\$1.50	\$1.74	\$62.53
6	52.00	\$32.72	\$14.91	\$11.66	\$1.75	\$1.75	\$62.79
7	60.00	\$37.76	\$14.91	\$12.84	\$2.00	\$1.93	\$69.44
8	65.00	\$40.90	\$14.91	\$13.58	\$2.25	\$2.04	\$73.68
9	75.00	\$47.20	\$14.91	\$15.06	\$2.75	\$2.28	\$82.20
10	85.00	\$53.49	\$14.91	\$16.53	\$2.75	\$2.49	\$90.17
Apprentice to Journeyworker Ratio: 1:4							
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	1/1/2026	\$64.85	\$13.45	\$7.45	\$18.25	\$0.00	\$104.00
SPRINKLER FITTERS LOCAL 550							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
SPRINKLER FITTERS LOCAL 550 - (Section B) Zone 2							

Apprentice: SPRINKLER FITTER							
Effective Date: 1/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	0.00	\$22.70	\$13.45	\$13.84	\$0.00	\$0.00	\$49.99
2	0.00	\$25.94	\$13.45	\$14.75	\$0.00	\$0.00	\$54.14
3	0.00	\$29.18	\$13.45	\$15.67	\$0.00	\$0.00	\$58.30
4	0.00	\$32.43	\$13.45	\$16.57	\$0.00	\$0.00	\$62.45
5	0.00	\$35.67	\$13.45	\$17.49	\$0.00	\$0.00	\$66.61
6	0.00	\$38.91	\$13.45	\$18.40	\$0.00	\$0.00	\$70.76
7	0.00	\$42.15	\$13.45	\$19.32	\$0.00	\$0.00	\$74.92
8	0.00	\$45.40	\$13.45	\$20.22	\$0.00	\$0.00	\$79.07
9	0.00	\$48.64	\$13.45	\$21.15	\$0.00	\$0.00	\$83.24
10	0.00	\$51.88	\$13.45	\$22.05	\$0.00	\$0.00	\$87.38

Apprentice Notes							
Apprentice entered prior 9/30/10:							

Apprentice to Journeyworker Ratio: 1:3

STEAM BOILER OPERATOR	6/1/2026	\$58.70	\$17.05	\$13.35	\$3.25	\$0.00	\$92.35
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.14	\$17.05	\$13.35	\$3.25	\$0.00	\$93.79
OPERATING ENGINEERS LOCAL 4							

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

TAMPERS, SELF-PROPELLED OR TRACTOR DRAWN	6/1/2026	\$58.70	\$17.05	\$13.35	\$3.25	\$0.00	\$92.35
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.14	\$17.05	\$13.35	\$3.25	\$0.00	\$93.79
OPERATING ENGINEERS LOCAL 4							

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

TELECOMMUNICATION TECHNICIAN	3/1/2026	\$53.49	\$13.00	\$14.23	\$7.20	\$0.00	\$87.92
TELECOMMUNICATION TECHNICIAN	9/1/2026	\$55.02	\$13.00	\$14.28	\$7.20	\$0.00	\$89.50
ELECTRICIANS LOCAL 103	3/1/2027	\$55.98	\$13.00	\$14.31	\$7.20	\$0.00	\$90.49
ELECTRICIANS LOCAL 103	9/1/2027	\$57.50	\$13.00	\$14.36	\$7.20	\$0.00	\$92.06
	3/1/2028	\$58.46	\$13.00	\$14.38	\$7.20	\$0.00	\$93.04

For apprentice rates and ratios see "Apprentice- ELECTRICIAN"

Apprentice: TELECOMMUNICATION TECHNICIAN							
Effective Date: 3/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$24.07	\$13.00	\$0.72	\$0.00	\$0.00	\$37.79
2	45.00	\$24.07	\$13.00	\$0.72	\$0.00	\$0.00	\$37.79
3	50.00	\$26.75	\$13.00	\$13.43	\$3.60	\$0.00	\$56.78
4	50.00	\$26.75	\$13.00	\$13.43	\$3.60	\$0.00	\$56.78
5	55.00	\$29.42	\$13.00	\$13.51	\$3.96	\$0.00	\$59.89

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
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Apprentice: TELECOMMUNICATION TECHNICIAN							
Effective Date: 3/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
6	60.00	\$32.09	\$13.00	\$13.59	\$4.32	\$0.00	\$63.00
7	65.00	\$34.77	\$13.00	\$13.67	\$4.68	\$0.00	\$66.12
8	70.00	\$37.44	\$13.00	\$13.75	\$5.04	\$0.00	\$69.23
9	75.00	\$40.12	\$13.00	\$13.83	\$5.40	\$0.00	\$72.35
10	80.00	\$42.79	\$13.00	\$13.91	\$5.76	\$0.00	\$75.46

Apprentice: TELECOMMUNICATION TECHNICIAN							
Effective Date: 9/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$24.76	\$13.00	\$0.74	\$0.00	\$0.00	\$38.50
2	45.00	\$24.76	\$13.00	\$0.74	\$0.00	\$0.00	\$38.50
3	50.00	\$27.51	\$13.00	\$13.46	\$3.60	\$0.00	\$57.57
4	50.00	\$27.51	\$13.00	\$13.46	\$3.60	\$0.00	\$57.57
5	55.00	\$30.26	\$13.00	\$13.54	\$3.96	\$0.00	\$60.76
6	60.00	\$33.01	\$13.00	\$13.62	\$4.32	\$0.00	\$63.95
7	65.00	\$35.76	\$13.00	\$13.70	\$4.68	\$0.00	\$67.14
8	70.00	\$38.51	\$13.00	\$13.79	\$5.04	\$0.00	\$70.34
9	75.00	\$41.27	\$13.00	\$13.87	\$5.40	\$0.00	\$73.54
10	80.00	\$44.02	\$13.00	\$13.96	\$5.76	\$0.00	\$76.74

Apprentice to Journeyworker Ratio: 1:1

TERRAZZO FINISHERS	8/1/2026	\$69.09	\$12.84	\$15.57	\$8.02	\$0.00	\$105.52
BRICKLAYERS LOCAL 3	2/1/2027	\$70.49	\$12.84	\$15.57	\$8.02	\$0.00	\$106.92
BRICKLAYERS LOCAL 3 - MARBLE & TILE							

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: TERRAZZO FINISHERS							
Effective Date: 2/1/2027							
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: TERRAZZO FINISHERS Effective Date: 2/1/2027							
		Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$35.25	\$12.84	\$15.57	\$8.02	\$0.00	\$71.68
2	60.00	\$42.29	\$12.84	\$15.57	\$8.02	\$0.00	\$78.72
3	70.00	\$49.34	\$12.84	\$15.57	\$8.02	\$0.00	\$85.77
4	80.00	\$56.39	\$12.84	\$15.57	\$8.02	\$0.00	\$92.82
5	90.00	\$63.44	\$12.84	\$15.57	\$8.02	\$0.00	\$99.87
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							
For apprentice rates see "Apprentice- LABORER"							
TRACTORS/PORTABLE STEAM GENERATORS	6/1/2026	\$58.70	\$17.05	\$13.35	\$3.25	\$0.00	\$92.35
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.14	\$17.05	\$13.35	\$3.25	\$0.00	\$93.79
OPERATING ENGINEERS LOCAL 4							
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							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
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"							
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	\$41.91	\$10.90	\$9.75	\$9.11	\$0.00	\$71.67
LABORERS	12/1/2026	\$43.35	\$10.90	\$9.75	\$9.11	\$0.00	\$73.11
LABORERS - ZONE 2	6/1/2027	\$44.80	\$10.90	\$9.75	\$9.11	\$0.00	\$74.56
	12/1/2027	\$46.25	\$10.90	\$9.75	\$9.11	\$0.00	\$76.01
	6/1/2028	\$47.75	\$10.90	\$9.75	\$9.11	\$0.00	\$77.51
	12/1/2028	\$49.25	\$10.90	\$9.75	\$9.11	\$0.00	\$79.01
For apprentice rates see "Apprentice- LABORER"							
WAGON DRILL OPERATOR (HEAVY & HIGHWAY)	6/1/2026	\$41.91	\$10.90	\$9.75	\$9.21	\$0.00	\$71.77
LABORERS	12/1/2026	\$43.35	\$10.90	\$9.75	\$9.21	\$0.00	\$73.21
LABORERS - ZONE 2 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
WASTE WATER PUMP OPERATOR	6/1/2026	\$59.38	\$17.05	\$13.35	\$3.25	\$0.00	\$93.03
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.83	\$17.05	\$13.35	\$3.25	\$0.00	\$94.48
OPERATING ENGINEERS LOCAL 4							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
WATER METER INSTALLER	3/2/2026	\$72.64	\$15.32	\$12.61	\$8.00	\$0.00	\$108.57
PLUMBERS & GASFITTERS LOCAL 12	8/31/2026	\$74.79	\$15.32	\$12.61	\$8.00	\$0.00	\$110.72
PLUMBERS & GASFITTERS LOCAL 12	3/1/2027	\$76.94	\$15.32	\$12.61	\$8.00	\$0.00	\$112.87
	8/30/2027	\$79.09	\$15.32	\$12.61	\$8.00	\$0.00	\$115.02
	2/2/2028	\$81.29	\$15.32	\$12.61	\$8.00	\$0.00	\$117.22
	9/4/2028	\$83.49	\$15.32	\$12.61	\$8.00	\$0.00	\$119.42
	3/5/2029	\$85.69	\$15.32	\$12.61	\$8.00	\$0.00	\$121.62
	9/3/2029	\$87.89	\$15.32	\$12.61	\$8.00	\$0.00	\$123.82
	3/4/2030	\$89.84	\$15.32	\$12.61	\$8.00	\$0.00	\$125.77
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"							

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.

"General Decision Number: MA20260008 05/18/2026

State: Massachusetts

Construction Types: Heavy

Counties: Massachusetts Counties of
Barnstable, Bristol, Dukes, Essex,
Middlesex, Nantucket, Norfolk, Plymouth
and Suffolk

Heavy and Marine Construction Projects

Modification Number	Publication Date
0	01/02/2026
1	05/18/2026

BOIL0029-001 01/01/2025

	Rates	Fringes
BOILERMAKER.....	\$ 50.62	28.82

BRMA0001-011 02/01/2023

	Rates	Fringes
BRICKLAYER/CEMENT MASON (FOXBORO CHAPTER BRISTOL (ATTLEBORO, BERKLEY, DIGHTON, MANSFIELD, NORTH ATTLEBORO, NORTON, RAYNHAM, REHOBOTH, SEEKONK, TAUNTON); NORFOLK, (BELLINGHAM, CANTON, DEDHAM, FOXBORO, FRANKLIN, NORFOLK, NORWOOD, PLAINVILLE, SHARON, WALPOLE, WESTRWOD, WRENTHAM); AND PLYMOUTH (LAKEVILLE)).....	\$ 60.35	34.40

BRMA0001-012 02/01/2023

	Rates	Fringes
BRICKLAYER (LOWELL CHAPTER MIDDLESEX (ACTON, ASHBY, AYER, BEDFORD, BILLERICA, BOXBORO, CARLISLE, CHEMSFORD, DRACUT, DUNSTABALE, FT DEVENS, GROTON, LITTLETON, LOWELL, NORTH ACTON, PEPPERELL, SHIRLEY, SOUTH ACTON, TEWKSBURY, TOWNSEND, TYNGSBORO, WEST ACTON, WESTFORD, WILMINGTON)).....	\$ 58.21	33.71

BRMA0001-013 08/01/2023

	Rates	Fringes
BRICKLAYER (LOWELL CHAPTER MIDDLESEX (ASHLAND, FRAMINGHAM, HOLLISTON, HOPKINTON, HUDSON, MAYNARD, NATICK, SHERBVORN, STOW); AND NORFOLK (MEDFIELD, MEDWAY, MILLIS)).....	\$ 62.40	34.40

BRMA0003-001 08/01/2024

	Rates	Fringes
TERRAZZO FINISHER.....	\$ 63.44	37.33
MARBLE, TILE & TERRAZZO WORKERS.....	\$ 64.52	37.51
MARBLE & TILE FINISHER.....	\$ 49.32	35.26

BRMA0003-003 08/01/2024

	Rates	Fringes
BRICKLAYER (BOSTON CHAPTER MIDDLESEX (ARLINGTON, CAMBRIDGE, EVERETT, MALDEN, MEDFORD, MELROSE, SOMERVILLE); NORFOLK (BROOKLINE, MILTON); AND SUFFOLK).....	\$ 64.50	37.54

BRMA0003-011 08/01/2024

	Rates	Fringes
BRICKLAYER/CEMENT MASON (LYNN CHAPTER ESSEX (AMESBURY, ANDOVER, BEVERLY, BOXFORD, DANVERS, ESSEX, GEORGETOWN, GLOUCESTER, GROVELAND, HAMILTON, HAVERHILL, IPSWICH, LAWRENCE, LYNN, LYNNFIELD, MANCHESTER, MARBLEHEAD, MERRIMAC, METHUEN, MIDDLETON, NAHANT, NEWBURY, NEWBURYPORT, NORTH ANDOVER, PEABODY, ROCKPORT, ROWLEY, SALISBURY, SALEM, SAUGUS, SWAMPSCOTT, TOPSFIELD, WAKEFIELD, WENHAM, WEST NEWBURY); AND MIDDLESEX (NORTH READING, READING, WAKEFIELD)).....	\$ 64.50	37.54

BRMA0003-012 08/01/2024

	Rates	Fringes
BRICKLAYER (WALTHAM CHAPTER - MIDDLESEX (BELMONT, BURLINGTON, CONCORD, LEXINGTON, LINCOLN, STONEHAM, SUDBURY, WALTHAM, WATERTOWN, WAYLAND, WESTON, WINCHESTER, WOBURN)).....	\$ 64.50	37.54

BRMA0003-014 08/01/2024

	Rates	Fringes
BRICKLAYER/CEMENT MASON (QUINCY CHAPTER PLYMOUTH		

COUNTY (ABINGTON, BRIDGEWATER, BROCKTON, CARVER, DUXBURY, EAST BRIDGEWATER, HALIFAX, HANOVER, HANSON, HINGHAM, HULL, KINGSTON, MARSHFIELD, MIDDLEBORO, NORWELL, PEMBROKE, PLYMOUTH, ROCKLAND, SCITUATE, WEST BRIDGEWATER, WHITMAN)).....\$ 64.50	37.54
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BRMA0003-025 08/01/2024

	Rates	Fringes
BRICKLAYER/CEMENT MASON (NEW BEDFORD CHAPTER BARNSTABLE; BRISTOL (ACUSHNET, DARMOUTH, FAIRHAVEN, FALL RIVER, FREETOWN, NEW BEDFORD, SOMERSET, SWANSEA, WESTPORT); DUKES; NANTUCKET; PLYMOUTH (MARION, MATTAPOISETT, ROCHESTER, WAREHAM)).....\$ 64.50		37.54

BRMA0003-033 08/01/2024

	Rates	Fringes
BRICKLAYER, PLASTERER (NEWTON CHAPTER MIDDLESEX (NEWTON); NORFOLK (DOVER, NEEDHAM, WELLESLEY)).....\$ 64.50		37.54

CARP0056-001 08/01/2024

	Rates	Fringes
PILEDRIVERMAN (ALL OF SUFFOLK COUNTY; AND THOSE AREAS OF BARNSTABLE, BRISTOL, ESSEX, MIDDLESEX, NORFOLK, AND PLYMOUTH COUNTIES SITUATED INSIDE BOSTON BELTWAY (I-495) AND NORTH OF CAPE COD CANAL. ALL OF DUKES AND NANTUCKET COUNTIES)).....\$ 55.79		35.47

CARP0056-002 08/01/2024

	Rates	Fringes
PILEDRIVERMAN (THE AREAS OF BARNSTABLE, BRISTOL, PLYMOUTH, AND NORFOLK COUNTIES SITUATED OUTSIDE BOSTON BELTWAY (I-495) AND SOUTH OF CAPE COD CANAL).\$ 51.97		35.47

CARP0056-003 08/01/2024

	Rates	Fringes
PILEDRIVERMAN (THOSE AREAS OF ESSEX AND MIDDLESEX COUNTIES SITUATED OUTSIDE BOSTON BELTWAY (I-495))...\$ 49.19		35.47

CARP0056-004 08/01/2024

	Rates	Fringes
DIVER TENDER.....\$ 61.70		35.47
DIVER.....\$ 78.11		35.47

CARP0327-002 09/01/2025		
	Rates	Fringes
CARPENTER (MIDDLESEX (BELMONT, CAMBRIDGE, EVERETT, MALDEN, MEDFORD, SOMERVILLE); NORFOLK (BROOKLINE, DEDHAM, MILTON); AND SUFFOLK COUNTIES).....	\$ 61.19	31.55

CARP0339-002 09/01/2025		
	Rates	Fringes
CARPENTER (BRISTOL (ATTLEBOROUGH, NORTH ATTLEBOROUGH); ESSEX; MIDDLESEX (EXCEPT BELMONT, CAMBRIDGE, EVERETT, MALDEN, MEDFORD, SOMERVILLE); AND NORFOLK (BELLINGHAM, BRAINTREE, CANTON, COHASSET, FOXBORO, FRANKLIN, MEDFIELD, MEDWAY, MILLIS, NEEDHAM, NORFOLK, NORWOOD, PLAINVILLE, QUINCY, SHARON, WALPOLE, WELLESLEY, WESTWOOD, WEYMOUTH, WRENTHAM) COUNTIES).....	\$ 50.10	31.45

CARP0346-001 09/01/2025		
	Rates	Fringes
CARPENTER (NORFOLK (BRAINTREE, QUINCY, COHASSET, WEYMOUTH, ETC.) PLYMOUTH (DUXBURY, HANOVER, HULL, HINGHAM, MARSHFIELD, NORWELL, PEMBROKE ROCKLAND, SCITUATE)).....	\$ 50.10	31.45

CARP0624-002 09/01/2017		
	Rates	Fringes
CARPENTER (DUKES; NANTUCKET).....	\$ 46.43	28.35

CARP0624-006 09/01/2017		
	Rates	Fringes
CARPENTER (BARNSTABLE; BRISTOL (EXCEPT ATTLEBORO & NORTH ATTLEBORO); NORFOLK (AVON, HOLBROOK, RANDOLPH, STOUGHTON); PLYMOUTH (BRIDGEWATER, KINGSTON, LAKEVILLE, MIDDLEBORO, PLYMOUTH, S. HANOVER, WHITMAN)).....	\$ 39.28	27.90

CARP1121-001 04/21/2025		
	Rates	Fringes
MILLWRIGHT (SUFFOLK COUNTY).....	\$ 50.47	33.50

CARP1121-005 04/21/2025		
	Rates	Fringes
MILLWRIGHT (BARNSTABLE, BRISTOL, DUKES, ESSEX, MIDDLESEX, NANTUCKET, NORFOLK AND PLYMOUTH		

COUNTIES).....	\$ 45.03	33.25

ELEC0096-001 09/07/2025		
	Rates	Fringes
TELEDATA SYSTEM INSTALLER (MIDDLESEX (ASHBY, ASHLAND, AYER, FT. DEVENS, GROTON, HOPKINTON, HUDSON, MARLBORO, PEPPERELL, SHIRLEY, STOW, TOWNSEND)).....	\$ 36.12	34.51
ELECTRICIAN (MIDDLESEX (ASHBY, ASHLAND, AYER, FT. DEVENS, GROTON, HOPKINTON, HUDSON, MARLBORO, PEPPERELL, SHIRLEY, STOW, TOWNSEND)).....	\$ 48.16	36.20

ELEC0099-001 06/01/2025		
	Rates	Fringes
TELEDATA SYSTEM INSTALLER (BRISTOL (ATTLEBORO, NORTH ATTLEBORO, SEEKONK)).....	\$ 42.09	19.71
ELECTRICIAN (BRISTOL (ATTLEBORO, NORTH ATTLEBORO, SEEKONK)).....	\$ 56.11	24.74

ELEC0103-002 09/01/2025		
	Rates	Fringes
ELECTRICIAN (ESSEX (AMESBURY, ANDOVER, BOXFORD, GEORGETOWN, GROVELAND, HAVERHILL, LAWRENCE, MERRIMAC, METHUEN, NEWBURY, NEWBURYPORT, NORTH ANDOVER, ROWLEY, SALISBURY, WEST NEWBURY); MIDDLESEX (BEDFORD, BILLERICA, BOXBORO, BURLINGTON, CARLISLE, CHELMSFORD, DRACUT, DUNSTABLE LITTLETON, LOWELL, NORTH READING, TEWKSBURY, TYNGSBORO, WESTFORD, WILMINGTON)).....	\$ 66.17	37.08

ELEC0103-004 09/01/2025		
	Rates	Fringes
ELECTRICIAN (ESSEX (BEVERLY, DANVERS, ESSEX, GLOUCESTER, HAMILTON, IPSWICH, MANCHESTER, MARBLEHEAD, MIDDLETON, PEABODY, ROCKPORT, SALEM, TOPSFIELD, WENHAM)).....	\$ 66.17	37.08

ELEC0103-005 09/01/2025		
	Rates	Fringes
ELECTRICIAN (ESSEX (LYNN, LYNNFIELD, NAHANT, SAUGUS, SWAMPSCOTT); MIDDLESEX (ACTON, ARLINGTON, BELMONT, CAMBRIDGE, CONCORD, EVERETT, FRAMINGHAM, HOLLISTON, LEXINGTON, LINCOLN, MALDEN, MAYNARD, MEDFORD, MELROSE, NATICK, NEWTON, READING, SHERBORN, SOMERVILLE, STONEHAM, SUDBURY, WAKEFIELD,		

WALTHAM, WATERTOWN, WAYLAND, WESTON, WINCHESTER, WOBBURN); NORFOLK (BELLINGHAM, BRAINTREE, BROOKLINE, CANTON, COHASSET, DEDHAM, DOVER, FOXBORO, FRANKLOIN, MEDFIELD, MEDWAY, MILLIS, MILTON, NEEDHAM, NORFOLK, NORWO.....	\$ 66.17	37.08
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ELEC0104-001 09/01/2024

	Rates	Fringes
LINE CONSTRUCTION: LINEMAN A. PAID HOLIDAYS: NEW YEAR'S DAY; MEMORIAL DAY; INDEPENDENCE DAY; LABOR DAY; THANKSGIVING DAY; CHRISTMAS DAY AND COLUMBUS DAY, PROVIDED THE EMPLOYEE HAS BEEN EMPLOYED 5 WORKING DAYS PRIOR TO ANY ONE OF THE LISTED HOLIDAYS.....	\$ 58.41	30.19
LINE CONSTRUCTION: GROUNDMAN A. PAID HOLIDAYS: NEW YEAR'S DAY; MEMORIAL DAY; INDEPENDENCE DAY; LABOR DAY; THANKSGIVING DAY; CHRISTMAS DAY AND COLUMBUS DAY, PROVIDED THE EMPLOYEE HAS BEEN EMPLOYED 5 WORKING DAYS PRIOR TO ANY ONE OF THE LISTED HOLIDAYS.....	\$ 32.13	12.70
LINE CONSTRUCTION: EQUIPMENT OPERATOR A. PAID HOLIDAYS: NEW YEAR'S DAY; MEMORIAL DAY; INDEPENDENCE DAY; LABOR DAY; THANKSGIVING DAY; CHRISTMAS DAY AND COLUMBUS DAY, PROVIDED THE EMPLOYEE HAS BEEN EMPLOYED 5 WORKING DAYS PRIOR TO ANY ONE OF THE LISTED HOLIDAYS.....	\$ 49.65	26.72
LINE CONSTRUCTION: CABLEMAN A. PAID HOLIDAYS: NEW YEAR'S DAY; MEMORIAL DAY; INDEPENDENCE DAY; LABOR DAY; THANKSGIVING DAY; CHRISTMAS DAY AND COLUMBUS DAY, PROVIDED THE EMPLOYEE HAS BEEN EMPLOYED 5 WORKING DAYS PRIOR TO ANY ONE OF THE LISTED HOLIDAYS.....	\$ 58.41	30.19

ELEC0223-002 09/01/2024

	Rates	Fringes
ELECTRICIAN (BARNSTABLE, BRISTOL (EXCEPT ATTLEBORO, NORTH ATTLEBORO, SEEKONK); DUKES; NANTUCKET; PLYMOUTH (EXCEPT HINGHAM AND HULL TWPS); NORFOLK (AVON, HALBROOK, RANDOLPH, SLOUGHTON)).....	\$ 50.02	31.05

ENGI0004-009 06/01/2025

	Rates	Fringes
POWER EQUIPMENT OPERATORS: GROUP 6 OILER (ON TRUCK CRANES AND GRADALLS) HOURLY PREMIUM FOR BOOM LENGTHS (INCLUDING JIB): OVER 150 FT. +2.18 OVER 185 FT. +3.84 OVER 210 FT. +5.39 OVER 250 FT. +8.16 OVER 295 FT. +11.29 OVER		

350 FT. +13.14	FOOTNOTE FOR POWER EQUIPMENT OPERATORS: A. PAID HOLIDAYS: NEW YEAR'S DAY, WASHINGTON,S BIRTHDAY, LABOR DAY, MEMORIAL DAY, INDEPENDENCE DAY, PATRIOT'S DAY, COLUMBUS DAY, VETERAN'S DAY, THANKSGIVING DAY, CHRISTMAS DAY.....\$ 30.85	33.70
POWER EQUIPMENT OPERATORS: GROUP 5 OILER (OTHER THAN TRUCK CRANES AND GRADALLS)	HOURLY PREMIUM FOR BOOM LENGTHS (INCLUDING JIB): OVER 150 FT. +2.18 OVER 185 FT. +3.84 OVER 210 FT. +5.39 OVER 250 FT. +8.16 OVER 295 FT. +11.29 OVER 350 FT. +13.14	
FOOTNOTE FOR POWER EQUIPMENT OPERATORS: A. PAID HOLIDAYS: NEW YEAR'S DAY, WASHINGTON,S BIRTHDAY, LABOR DAY, MEMORIAL DAY, INDEPENDENCE DAY, PATRIOT'S DAY, COLUMBUS DAY, VETERAN'S DAY, THANKSGIVING DAY, CHRISTMAS DAY.....\$ 25.02		33.70
POWER EQUIPMENT OPERATORS: GROUP 4 ASSITANT ENGINEER (FIREMAN)	HOURLY PREMIUM FOR BOOM LENGTHS (INCLUDING JIB): OVER 150 FT. +2.18 OVER 185 FT. +3.84 OVER 210 FT. +5.39 OVER 250 FT. +8.16 OVER 295 FT. +11.29 OVER 350 FT. +13.14	
FOOTNOTE FOR POWER EQUIPMENT OPERATORS: A. PAID HOLIDAYS: NEW YEAR'S DAY, WASHINGTON,S BIRTHDAY, LABOR DAY, MEMORIAL DAY, INDEPENDENCE DAY, PATRIOT'S DAY, COLUMBUS DAY, VETERAN'S DAY, THANKSGIVING DAY, CHRISTMAS DAY.....\$ 46.52		33.70
POWER EQUIPMENT OPERATORS: GROUP 3 PUMPS (1-3 GROUPED); COMPRESSOR; WELDING MACHINES (1-3 GROUPED); GENERATOR; SIGHTING PLANT; HEATERS (POWER DRIVEN, 1- 5); SYPHON-PULSOMETER; CONCRETE MIXER; VALVES CONTROLLING PERMANENT PLANT AIR STEAM, CONVEYOR, WELLPOINT SYSTEM (OPERATING)	HOURLY PREMIUM FOR BOOM LENGTHS (INCLUDING JIB): OVER 150 FT. +2.18 OVER 185 FT. +3.84 OVER 210 FT. +5.39 OVER 250 FT. +8.16 OVER 295 FT. +11.29 OVER 350 FT. +13.14	
FOOTNOTE FOR POWER EQUIPMENT OPERATORS: A. PAID HOLIDAYS: NEW YEAR'S DAY, WASHINGTON,S BIRTHDAY, LABOR DAY, MEMORIAL DAY, INDEPENDENCE DAY, PATRIOT'S DAY, COLUMBUS DAY, VETERAN'S DAY, THANKSGIVING DAY, CHRISTMAS DAY.....\$ 37.02		33.70
POWER EQUIPMENT OPERATORS: GROUP 2 SONIC OR VIBRATORY HAMMER; GRADER; SCRAPER; TANDEM SCRAPER; BULLDOZER; TRACTOR; MECHANIC - MAINTENANCE; YORK RAKE; MULCHING MACHINE; PAVING SCREED MACHINE;STATIONARY STEAM BOILER; PAVING CONCRETE FINISHING MACHINE; GROUT PUMP; PORTABLE STEAM BOILER; PORTABLE STEAM GENERATOR; ROLLER; SPREADER; ASPHALT PAVER; LOCOMOTIVES OR MACHINES USED IN PLACE THEREOF; TAMPER (SELF PROPELLED OR		

TRACTOR-DRAW); CAL TRACKS; BALLAST REGULATOR;RAIL ANCHOR MACHINE; SWITCH TAMPER; TIRE TRUCK HOURLY PREMIUM FOR BOOM LENGTHS (INCLUDING JIB): OVER 150 FT. +2.18 OVER 185 FT. +3.84 OVER 210 FT. +5.39 OVER 250 FT. +8.16 OVER 295 FT. +11.29 OVER 350 FT. +13.14 FOOTNOTE FOR POWER EQUIPMENT OPERATORS: A. PAID HOLIDAYS: NEW YEAR'S DAY, WASHINGTON,S BIRTHDAY, LABOR DAY, MEMORIAL DAY, INDEPENDENCE DAY, PATRIOT'S DAY, COLUMBUS DAY, VETERAN'S DAY, THANKSGIVING DAY, CHRISTMAS DAY.....\$ 57.18	33.70
POWER EQUIPMENT OPERATORS: GROUP 1 POWER SHOVEL; CRANE; TRUCK CRANE; DERRICK; PILE DRIVER; TRENCHING MACHINE; MECHANICAL HOIST PAVEMENT BREAKER; CEMENT CONCRETE PAVER; DRAGLINE; HOISTING ENGINE; THREE DRUM MACHINE; PUMPCRETE MACHINE; LOADERS; SHOVEL DOZER; FRONT END LOADER; MUCKING MACHINE; SHAFT HOIST; STEAM ENGINE; BACKHOE; GRADALL; CABLE WAY; FORK LIFT; CHERRY PICKER; BORING MACHINE; ROTARY DRILL; POST HOLE HAMMER; POST HOLE DIGGER; ASPHALT PLANT ON JOB SITE; CONCRETE BATCHING AND/OR MIXING PLANT ON JOB SITE; CRUSHER PLANT ON JOB SITE; PAVING CONCRETE MIXER; TIMBER JACK HOURLY PREMIUM FOR BOOM LENGTHS (INCLUDING JIB): OVER 150 FT. +2.18 OVER 185 FT. +3.84 OVER 210 FT. +5.39 OVER 250 FT. +8.16 OVER 295 FT. +11.29 OVER 350 FT. +13.14 FOOTNOTE FOR POWER EQUIPMENT OPERATORS: A. PAID HOLIDAYS: NEW YEAR'S DAY, WASHINGTON,S BIRTHDAY, LABOR DAY, MEMORIAL DAY, INDEPENDENCE DAY, PATRIOT'S DAY, COLUMBUS DAY, VETERAN'S DAY, THANKSGIVING DAY, CHRISTMAS DAY.....\$ 57.83	33.70

IRON0007-001 09/16/2025

	Rates	Fringes
IRONWORKER: (AREA 2).....	\$ 53.46	37.67
IRONWORKER: (AREA 1).....	\$ 57.87	37.67

IRON0007-010 09/16/2025

	Rates	Fringes
IRONWORKER (MIDDLESEX (ASHBY, ASHLAND, AYER, BOXBORO, HOLLISTON, HOPKINTON, HUDSON, MARLBORO, SHIRLEY, STOW, TOWNSEND); NORFOLK (MEDWAY)).....	\$ 57.57	37.67

IRON0037-002 09/16/2025

	Rates	Fringes
IRONWORKER (BARNSTABLE; BRISTOL (ACUSHNET,		

ATTLEBORO, BERKLEY, DARTMOUTH, DIGHTON, FAIRHAVEN, FALL RIVER, FREETOWN, MANSFIELD, NEW BEDFORD, NORTH ATTLEBORO, NORTON, RAYNHAM, REHOBOTH, SEEKONK, SOMERSET, SWANSEA, TAUNTON, WESTPORT); DUKES; NANTUCKET; NORFOLK (BILLINGHAM, FRANKLIN, PLAINVILLE, WRENTHAM); PLYMOUTH (LAKEVILLE, MARION, MATTAPOISETT, MIDDLEBORO, ROCHESTER, WAREHAM)).....\$ 43.03	33.53
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LAB00022-006 12/01/2024

	Rates	Fringes
LABORERS: GROUP 6- ASBESTOS ABATEMENT; TOXIC AND HAZARDOUS WASTE LABORERS (SUFFOLK COUNTY (BOSTON, CHELSEA, REVERE, WINTHROP, DEER & NUT ISLANDS); MIDDLESEX COUNTY (ARLINGTON, BELMONT, BURLINGTON, CAMBRIDGE, EVERETT, MALDEN, MEDFORD, MELROSE, READING, SOMERVILLE, STONEHAM, WAKEFIELD, WINCHESTER, WINTHROP AND WOBURN ONLY); NORFOLK COUNTY (BROOKLINE, DEDHAM, AND MILTON ONLY)).....\$ 46.20	46.20	29.70
LABORERS: GROUP 5- FLAGGER (SUFFOLK COUNTY (BOSTON, CHELSEA, REVERE, WINTHROP, DEER & NUT ISLANDS); MIDDLESEX COUNTY (ARLINGTON, BELMONT, BURLINGTON, CAMBRIDGE, EVERETT, MALDEN, MEDFORD, MELROSE, READING, SOMERVILLE, STONEHAM, WAKEFIELD, WINCHESTER, WINTHROP AND WOBURN ONLY); NORFOLK COUNTY (BROOKLINE, DEDHAM, AND MILTON ONLY)).....\$ 27.01	27.01	29.70
LABORERS: GROUP 4- BLASTER; POWDERMAN (SUFFOLK COUNTY (BOSTON, CHELSEA, REVERE, WINTHROP, DEER & NUT ISLANDS); MIDDLESEX COUNTY (ARLINGTON, BELMONT, BURLINGTON, CAMBRIDGE, EVERETT, MALDEN, MEDFORD, MELROSE, READING, SOMERVILLE, STONEHAM, WAKEFIELD, WINCHESTER, WINTHROP AND WOBURN ONLY); NORFOLK COUNTY (BROOKLINE, DEDHAM, AND MILTON ONLY)).....\$ 46.20	46.20	29.70
LABORERS: GROUP 3- AIR TRACK OPERATOR; BLOCK PAVER; RAMMER; CURB SETTER (SUFFOLK COUNTY (BOSTON, CHELSEA, REVERE, WINTHROP, DEER & NUT ISLANDS); MIDDLESEX COUNTY (ARLINGTON, BELMONT, BURLINGTON, CAMBRIDGE, EVERETT, MALDEN, MEDFORD, MELROSE, READING, SOMERVILLE, STONEHAM, WAKEFIELD, WINCHESTER, WINTHROP AND WOBURN ONLY); NORFOLK COUNTY (BROOKLINE, DEDHAM, AND MILTON ONLY)).....\$ 46.20	46.20	29.70
LABORERS: GROUP 2- ASPHALT RAKER; FENCE AND GUARD RAIL ERECTOR; LASER BEAM OPERATOR; MASON TENDER; PIPELAYER; PNEUMATIC DRILL OPERATOR; PNEUMATIC TOOL OPERATOR; WAGON DRILL OPERATOR (SUFFOLK COUNTY (BOSTON, CHELSEA, REVERE, WINTHROP, DEER & NUT ISLANDS); MIDDLESEX COUNTY (ARLINGTON, BELMONT, BURLINGTON, CAMBRIDGE, EVERETT, MALDEN, MEDFORD, MELROSE, READING, SOMERVILLE, STONEHAM, WAKEFIELD, WINCHESTER, WINTHROP AND WOBURN ONLY); NORFOLK		

COUNTY (BROOKLINE, DEDHAM, AND MILTON ONLY)).....\$ 46.20	29.70
LABORERS: GROUP 1- LABORERS; CARPENTER TENDERS; CEMENT FINISHER TENDERS (SUFFOLK COUNTY (BOSTON, CHELSEA, REVERE, WINTHROP, DEER & NUT ISLANDS); MIDDLESEX COUNTY (ARLINGTON, BELMONT, BURLINGTON, CAMBRIDGE, EVERETT, MALDEN, MEDFORD, MELROSE, READING, SOMERVILLE, STONEHAM, WAKEFIELD, WINCHESTER, WINTHROP AND WOBURN ONLY); NORFOLK COUNTY (BROOKLINE, DEDHAM, AND MILTON ONLY)).....\$ 46.20	

LAB00022-012 12/01/2024

	Rates	Fringes
LABORERS: GROUP 6- ASBESTOS ABATEMENT; TOXIC AND HAZARDOUS WASTE LABORERS (COUNTIES OF BARNSTABLE; BRISTOL; DUKES; ESSEX; NANTUCKET; PLYMOUTH; MIDDLESEX (WITH THE EXCEPTION OF ARLINGTON, BELMONT, BURLINGTON, CAMBRIDGE, EVERETT, MALDEN, MELROSE, READING, SOMERVILLE, STONEHAM, WAKEFIELD, WINCHESTER, WINTHROP AND WOBURN); NORFOLK (WITH THE EXCEPTION OF BROOKLINE, DEDHAM, AND MILTON)).....\$ 46.10		29.70
LABORERS: GROUP 5- FLAGGER (COUNTIES OF BARNSTABLE; BRISTOL; DUKES; ESSEX; NANTUCKET; PLYMOUTH; MIDDLESEX (WITH THE EXCEPTION OF ARLINGTON, BELMONT, BURLINGTON, CAMBRIDGE, EVERETT, MALDEN, MELROSE, READING, SOMERVILLE, STONEHAM, WAKEFIELD, WINCHESTER, WINTHROP AND WOBURN); NORFOLK (WITH THE EXCEPTION OF BROOKLINE, DEDHAM, AND MILTON)).....\$ 27.01		29.70
LABORERS: GROUP 4- BLASTER; POWDERMAN (COUNTIES OF BARNSTABLE; BRISTOL; DUKES; ESSEX; NANTUCKET; PLYMOUTH; MIDDLESEX (WITH THE EXCEPTION OF ARLINGTON, BELMONT, BURLINGTON, CAMBRIDGE, EVERETT, MALDEN, MELROSE, READING, SOMERVILLE, STONEHAM, WAKEFIELD, WINCHESTER, WINTHROP AND WOBURN); NORFOLK (WITH THE EXCEPTION OF BROOKLINE, DEDHAM, AND MILTON)).....\$ 38.95		29.70
LABORERS: GROUP 3- AIR TRACK OPERATOR; BLOCK PAVER; RAMMER; CURB SETTER; HYDRAULIC & SIMILAR SELF POWERE DRILLS (COUNTIES OF BARNSTABLE; BRISTOL; DUKES; ESSEX; NANTUCKET; PLYMOUTH; MIDDLESEX (WITH THE EXCEPTION OF ARLINGTON, BELMONT, BURLINGTON, CAMBRIDGE, EVERETT, MALDEN, MELROSE, READING, SOMERVILLE, STONEHAM, WAKEFIELD, WINCHESTER, WINTHROP AND WOBURN); NORFOLK (WITH THE EXCEPTION OF BROOKLINE, DEDHAM, AND MILTON)).....\$ 38.95		29.70
LABORERS: GROUP 2- ASPHALT RAKER; FENCE AND GUARD RAIL ERECTOR; LASER BEAM OPERATOR; MASON TENDER; PIPELAYER; PNEUMATIC DRILL OPERATOR; PNEUMATIC TOOL OPERATOR; WAGON DRILLPERATOR (COUNTIES OF		

BARNSTABLE; BRISTOL; DUKES; ESSEX; NANTUCKET; PLYMOUTH; MIDDLESEX (WITH THE EXCEPTION OF ARLINGTON, BELMONT, BURLINGTON, CAMBRIDGE, EVERETT, MALDEN, MELROSE, READING, SOMERVILLE, STONEHAM, WAKEFIELD, WINCHESTER, WINTHROP AND WOBURN); NORFOLK (WITH THE EXCEPTION OF BROOKLINE, DEDHAM, AND MILTON)).....	\$ 38.95	29.70
LABORERS: GROUP 1- LABORERS; CARPENTER TENDERS; CEMENT FINISHER TENDERS (COUNTIES OF BARNSTABLE; BRISTOL; DUKES; ESSEX; NANTUCKET; PLYMOUTH; MIDDLESEX (WITH THE EXCEPTION OF ARLINGTON, BELMONT, BURLINGTON, CAMBRIDGE, EVERETT, MALDEN, MELROSE, READING, SOMERVILLE, STONEHAM, WAKEFIELD, WINCHESTER, WINTHROP AND WOBURN); NORFOLK (WITH THE EXCEPTION OF BROOKLINE, DEDHAM, AND MILTON)).....	\$ 38.95	29.70

LAB00022-013 12/01/2024

	Rates	Fringes
LABORERS:(TUNNELS, CAISSON & CYLINDER WORK IN COMPRESSED AIR), GROUP 6 HAZARDOUS WASTE WORK WITHIN THE ""HOT"" ZONE. (A PREMIUM OF TWO DOLLARS \$2.00 PER HOUR OVER THE BASIC WAGE RATE. FOOTNOTE FOR LABORERS: A. PAID HOLIDAYS: NEW YEAR'S DAY, WASHINGTON'S BIRTHDAY, PATRIOT'S DAY, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, COLUMBUS DAY, VETERAN'S DAY, THANKSGIVING DAY, AND CHRISTMAS DAY	\$ 58.43	29.70
LABORERS: LABORERS; TOP MAN ((OPEN AIR CASSONS, UNDERPINNING AND TEST BORING INDUSTRIES):).....	\$ 41.18	29.70
LABORERS: LABORERS; TOP MAN ((OPEN AIR CASSONS, UNDERPINNING AND TEST BORING INDUSTRIES):).....	\$ 46.20	29.70
LABORERS: LABORER ((OPEN AIR CASSONS, UNDERPINNING AND TEST BORING INDUSTRIES):).....	\$ 41.18	29.70
LABORERS: LABORER ((OPEN AIR CASSONS, UNDERPINNING AND TEST BORING INDUSTRIES):).....	\$ 46.20	29.70
LABORERS: GROUP 5 (ROCK SHAFT, CONCRETE LINING OF SAME AND TUNNEL IN FREE AIR).....	\$ 47.48	29.70
LABORERS: GROUP 5 (ROCK SHAFT, CONCRETE LINING OF SAME AND TUNNEL IN FREE AIR).....	\$ 52.50	29.70
LABORERS: GROUP 5 ((TUNNELS, CAISSON & CYLINDER WORK IN COMPRESSED AIR)).....	\$ 53.41	29.70
LABORERS: GROUP 5 ((TUNNELS, CAISSON & CYLINDER WORK IN COMPRESSED AIR)).....	\$ 58.43	29.70
LABORERS: GROUP 4 (ROCK SHAFT, CONCRETE LINING OF SAME AND TUNNEL IN FREE AIR).....	\$ 45.48	29.70
LABORERS: GROUP 4 (ROCK SHAFT, CONCRETE LINING OF SAME AND TUNNEL IN FREE AIR).....	\$ 50.50	29.70
LABORERS: GROUP 4 ((TUNNELS, CAISSON & CYLINDER WORK IN COMPRESSED AIR)).....	\$ 53.41	29.70
LABORERS: GROUP 4 ((TUNNELS, CAISSON & CYLINDER		

WORK IN COMPRESSED AIR)).....\$ 58.43	29.70
LABORERS: GROUP 3 (ROCK SHAFT, CONCRETE LINING OF SAME AND TUNNEL IN FREE AIR).....\$ 45.48	29.70
LABORERS: GROUP 3 (ROCK SHAFT, CONCRETE LINING OF SAME AND TUNNEL IN FREE AIR).....\$ 50.50	29.70
LABORERS: GROUP 3 ((TUNNELS, CAISSON & CYLINDER WORK IN COMPRESSED AIR)).....\$ 53.41	29.70
LABORERS: GROUP 3 ((TUNNELS, CAISSON & CYLINDER WORK IN COMPRESSED AIR)).....\$ 58.43	29.70
LABORERS: GROUP 2 (ROCK SHAFT, CONCRETE LINING OF SAME AND TUNNEL IN FREE AIR).....\$ 45.48	29.70
LABORERS: GROUP 2 (ROCK SHAFT, CONCRETE LINING OF SAME AND TUNNEL IN FREE AIR).....\$ 50.50	29.70
LABORERS: GROUP 2 (CLEANING CONCRETE AND CAULKING TUNNEL (Both New & Existing)).....\$ 45.48	29.70
LABORERS: GROUP 2 (CLEANING CONCRETE AND CAULKING TUNNEL (Both New & Existing)).....\$ 50.50	29.70
LABORERS: GROUP 2 ((TUNNELS, CAISSON & CYLINDER WORK IN COMPRESSED AIR)).....\$ 53.41	29.70
LABORERS: GROUP 2 ((TUNNELS, CAISSON & CYLINDER WORK IN COMPRESSED AIR)).....\$ 58.43	29.70
LABORERS: GROUP 2 ((FREE AIR OPERATION): SHIELD DRIVEN AND LINER PLATE IN FREE AIR)).....\$ 50.50	29.70
LABORERS: GROUP 1 (ROCK SHAFT, CONCRETE LINING OF SAME AND TUNNEL IN FREE AIR).....\$ 42.93	29.70
LABORERS: GROUP 1 (ROCK SHAFT, CONCRETE LINING OF SAME AND TUNNEL IN FREE AIR).....\$ 47.95	29.70
LABORERS: GROUP 1 (CLEANING CONCRETE AND CAULKING TUNNEL (Both New & Existing)).....\$ 45.48	29.70
LABORERS: GROUP 1 (CLEANING CONCRETE AND CAULKING TUNNEL (Both New & Existing)).....\$ 50.50	29.70
LABORERS: GROUP 1 ((TUNNELS, CAISSON & CYLINDER WORK IN COMPRESSED AIR)).....\$ 42.93	29.70
LABORERS: GROUP 1 ((TUNNELS, CAISSON & CYLINDER WORK IN COMPRESSED AIR)).....\$ 47.95	29.70
LABORERS: GROUP 1 ((FREE AIR OPERATION): SHIELD DRIVEN AND LINER PLATE IN FREE AIR)).....\$ 50.50	29.70
LABORERS: DRILLER ((OPEN AIR CASSONS, UNDERPINNING AND TEST BORING INDUSTRIES):).....\$ 42.58	29.70
LABORERS: DRILLER ((OPEN AIR CASSONS, UNDERPINNING AND TEST BORING INDUSTRIES):).....\$ 50.20	29.70
LABORERS: BOTTOM MAN ((OPEN AIR CASSONS, UNDERPINNING AND TEST BORING INDUSTRIES):).....\$ 42.33	29.70
LABORERS: BOTTOM MAN ((OPEN AIR CASSONS, UNDERPINNING AND TEST BORING INDUSTRIES):).....\$ 47.35	29.70
((OPEN AIR CASSONS, UNDERPINNING AND TEST BORING INDUSTRIES):).....\$ 41.18	29.70
((OPEN AIR CASSONS, UNDERPINNING AND TEST BORING INDUSTRIES):).....\$ 42.33	29.70
((OPEN AIR CASSONS, UNDERPINNING AND TEST BORING	

INDUSTRIES):).....	\$ 42.58	29.70
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LAB01421-001 12/02/2024

	Rates	Fringes
LABORERS:, WRECKING: GROUP 6 ASBESTOS, LEAD PAINT, TOXIC AND HAZARDOUS WASTE.....	\$ 46.25	29.70
LABORERS:, WRECKING: GROUP 5 YARDMAN, BURNERS, SAWYERS.....	\$ 45.35	29.70
LABORERS:, WRECKING: GROUP 4 YARDMAN (SALVAGE YARD ONLY).....	\$ 42.25	29.70
LABORERS:, WRECKING: GROUP 3 SMALL BACKHOES, LOADERS ON TRACKS, BOBCAT TYPE LOADERS, HYDRAULIC ""BROCK"" TYPE HAMMER OPERATORS, CONCRETE CUTTING SAWS.....	\$ 47.25	29.70
LABORERS:, WRECKING: GROUP 2 BURNERS, JACKHAMMERS...	\$ 47.00	29.70
LABORERS:, WRECKING: GROUP 1 ADZEMAN, WRECKING LABORER.....	\$ 46.25	29.70

PAIN0035-001 07/01/2024

	Rates	Fringes
PAINTER BRIDGE (BARNSTABLE BRISTOL; DUKES; ESSEX; NANTUCKET; PLYMOUTH (Remainder of NORFOLK; MIDDLESEX AND SUFFOLK COUNTIES)).....	\$ 56.76	36.00

PAIN0035-015 07/01/2024

	Rates	Fringes
PAINTER SPAY NEW CONSTRUCTION: SANDBLAST.....	\$ 47.66	36.00
PAINTER REPAINT: SPRAY, SANDBLAST.....	\$ 45.72	36.00
PAINTER BRUSH, TAPER (Repaint).....	\$ 44.32	36.00
PAINTER BRUSH, TAPER (New Construction).....	\$ 46.26	36.00
PAINTER BRIDGE (MIDDLESEX (Cambridge, Everett, Malden, Medford, Somerville) SUFFOLK COUNTY (Boston, Chelsea) NORFOLK COUNTY (Brookline)).....	\$ 56.76	36.00

PLAS0534-001 07/01/2024

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER (ESSEX; MIDDLESEX; NORFOLK AND SUFFOLK COUNTY).....	\$ 49.19	40.86

PLUM0004-001 09/01/2025

	Rates	Fringes
PLUMBERS AND PIPEFITTERS (MIDDLESEX (ASHBY, AYER-WEST OF GREENVILLE BRANCH OF BOSTON AND MAINE RAILROAD, FT. DEVENS, GROTON, SHIRLEY, TOWNSEND))...	\$ 55.00	31.57

PLUM0012-001 03/02/2025

	Rates	Fringes
PLUMBER (ESSEX (AMES, ANDOVER, BEVERLY, BOXFORD, BYFIELD, DANVERS, ESSEX, GEORGETOWN, GLOUCESTER, GROVELAND, HAMILTON, HAVERHILL, IPSWICH, LAWRENCE, MANCHESTER, MARBLEHEAD, MERRIMAC, METHUEN, MIDDLETON, NEWBURY, NEWBURYPORT, NORTH ANDOVER, PEABODY, ROCKPORT, ROWLEY, SALEM, SALISBURY, TOPSFIELD, WENHAM, WEST NEWBURY)).....	\$ 69.84	36.43

PLUM0012-003 03/02/2025

	Rates	Fringes
PLUMBER, PIPEFITTER, STEAMFITTER (ESSEX (AMES, ANDOVER, BEVERLY, BOXFORD, BYFIELD, DANVERS, ESSEX, GEORGETOWN, GLOUCESTER, GROVELAND, HAMILTON, HAVERHILL, IPSWICH, LAWRENCE, MANCHESTER, MARBLEHEAD, MERRIMAC, METHUEN, MIDDLETON, NEWBURY, NEWBURYPORT, NORTH ANDOVER, PEABODY, ROCKPORT, ROWLEY, SALEM, SALISBURY, TOPSFIELD, WENHAM, WEST NEWBURY)).....	\$ 69.84	36.43

PLUM0012-006 03/02/2025

	Rates	Fringes
PLUMBER (ESSEX (LYNN, LYNNFIELD, NAHANT, SAUGUS, AND SWAMPSCOTT); MIDDLESEX (ACTON, ARLINGTON, ASHLAND, AYER - EXCEPT W. OF GREENVILLE BRANCH OF BOSTON & MAINE RR, BEDFORD, BELMONT, BILLERICA, BOXBORO, BURLINGTON, CAMBRIDGE, CARLISLE, CHELMSFORD, CONCORD, DRACUT, DUNSTABLE, EVERETT, FRAMINGHAM, HUDSON, HOLLISTON, HOPKINTON, LEXINGTON, LINCOLN, LITTLETON, LOWELL, MALDEN, MARLBORO, MAYNARD, MEDFORD, MELROSE, NATICK, NEWTON, NORTH READING, PEPPERELL, READING, SHERBORN, SOMERVILLE, STONEHAM, S.....	\$ 69.84	36.43

PLUM0051-005 08/26/2024

	Rates	Fringes
PLUMBERS AND PIPEFITTERS (BARNSTABLE; BRISTOL; DUKES; NANTUCKET; NORFOLK (AVON, HOLBROOK, RANDOLPH, STOUGHTON) PLYMOUTH(REMAINDER OF COUNTY)).	\$ 52.49	33.60

PLUM0537-001 03/01/2025

	Rates	Fringes
PIPEFITTER (MIDDLESEX (ARLINGTON, CAMBRIDGE, EVERETT, MALDEN, MEDFORD, MELROSE, READING,		

WAKEFIELD, WINCHESTER AND WOBURN); NORFOLK (BELLINGHAM, BRAINTREE, BROOKLINE, CANTON CASHASSET, DEDHAM, FOXBORO, FRANKLIN, MILLIS, MILTON, SHARON, WALPOLE, WESTWOOD, AND WRENTHAN); PLYMOUTH (HINGHAM, HULL, SCITUATE); ESSEX (AMES, ANDOVER, BEVERLY, BOXFORD, BYFIELD, DANVERS, ESSEX, GEORGETOWN, GLOUCESTER, GROVELAND, HAMILTON, HAVERHILL, IPSWICH, LAWRENCE, LYNN, LYNNFIELD, MANCHESTER, MARBLEHEAD, MERRIMAC, MET.....\$ 66.58	39.22
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TEAM0379-001 06/01/2025

	Rates	Fringes
TRUCK DRIVERS: GROUP 7 TRAILERS FOR EARTH MOVING EQUIPMENT (DOUBLE HOOKUP) POWER TRUCKS \$.25 DIFFERENTIAL BY AXLE TUNNEL WORK (UNDERGROUND ONLY) \$.40 DIFFERENTIAL BY AXLE HAZARDOUS MATERIALS (IN HOT ZONE ONLY) \$2.00 PREMIUM FOOTNOTES: A. PAID HOLIDAYS: NEW YEAR'S DAY, WASHINGTON'S BIRTHDAY, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, PATRIOT'S DAY, COLUMBUS DAY, VETERAN'S DAY, THANKSGIVING DAY AND CHRISTMAS DAY B. PAID VACATION: EMPLOYEES WITH 4 MONTHS TO 1 YEAR OF SERVICE RECEIVE 1/2 DAY'S PAY PER MONTH; 1 WEEK VACATION FOR 1 - 5 YEARS OF SERVICE; 2 WEEKS VACATION FOR 5 - 10 YEARS OF SERVICE; AND 3 WEEKS VACATION FOR MORE THAN 10 YEARS OF SERVICE.....\$ 41.82	37.35	
TRUCK DRIVERS: GROUP 6 SPECIALIZED EARTH MOVING EQUIPMENT OVER 35 TONS POWER TRUCKS \$.25 DIFFERENTIAL BY AXLE TUNNEL WORK (UNDERGROUND ONLY) \$.40 DIFFERENTIAL BY AXLE HAZARDOUS MATERIALS (IN HOT ZONE ONLY) \$2.00 PREMIUM FOOTNOTES: A. PAID HOLIDAYS: NEW YEAR'S DAY, WASHINGTON'S BIRTHDAY, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, PATRIOT'S DAY, COLUMBUS DAY, VETERAN'S DAY, THANKSGIVING DAY AND CHRISTMAS DAY B. PAID VACATION: EMPLOYEES WITH 4 MONTHS TO 1 YEAR OF SERVICE RECEIVE 1/2 DAY'S PAY PER MONTH; 1 WEEK VACATION FOR 1 - 5 YEARS OF SERVICE; 2 WEEKS VACATION FOR 5 - 10 YEARS OF SERVICE; AND 3 WEEKS VACATION FOR MORE THAN 10 YEARS OF SERVICE.....\$ 41.53	37.35	
TRUCK DRIVERS: GROUP 5 SPECIALIZED EARTH MOVING EQUIPMENT UNDER 35 TONS OTHER THAN CONVENTIONAL TYPE TRUCKS; LOW BED; VACHUAL; MECHANICS, PAVING RESTORATION EQUIPMENT POWER TRUCKS \$.25 DIFFERENTIAL BY AXLE TUNNEL WORK (UNDERGROUND ONLY) \$.40 DIFFERENTIAL BY AXLE HAZARDOUS MATERIALS (IN HOT ZONE ONLY) \$2.00 PREMIUM FOOTNOTES: A. PAID HOLIDAYS: NEW YEAR'S DAY, WASHINGTON'S BIRTHDAY, MEMORIAL DAY, INDEPENDENCE		

DAY, LABOR DAY, PATRIOT'S DAY, COLUMBUS DAY,
VETERAN'S DAY, THANKSGIVING DAY AND CHRISTMAS DAY

B. PAID VACATION: EMPLOYEES WITH 4 MONTHS TO 1
YEAR OF SERVICE RECEIVE 1/2 DAY'S PAY PER MONTH; 1
WEEK VACATION FOR 1 - 5 YEARS OF SERVICE; 2 WEEKS
VACATION FOR 5 - 10 YEARS OF SERVICE; AND 3 WEEKS
VACATION FOR MORE THAN 10 YEARS OF SERVICE.....\$ 41.24

37.35

TRUCK DRIVERS: GROUP 4 FOUR AND FIVE AXLE EQUIPMENT

POWER TRUCKS \$.25 DIFFERENTIAL BY AXLE TUNNEL
WORK (UNDERGROUND ONLY) \$.40 DIFFERENTIAL BY AXLE
HAZARDOUS MATERIALS (IN HOT ZONE ONLY) \$2.00

PREMIUM FOOTNOTES: A. PAID HOLIDAYS: NEW
YEAR'S DAY, WASHINGTON'S BIRTHDAY, MEMORIAL DAY,
INDEPENDENCE DAY, LABOR DAY, PATRIOT'S DAY,
COLUMBUS DAY, VETERAN'S DAY, THANKSGIVING DAY AND
CHRISTMAS DAY B. PAID VACATION: EMPLOYEES

WITH 4 MONTHS TO 1 YEAR OF SERVICE RECEIVE 1/2
DAY'S PAY PER MONTH; 1 WEEK VACATION FOR 1 - 5
YEARS OF SERVICE; 2 WEEKS VACATION FOR 5 - 10 YEARS
OF SERVICE; AND 3 WEEKS VACATION FOR MORE THAN 10
YEARS OF SERVICE.....\$ 41.14

37.35

TRUCK DRIVERS: GROUP 3 THREE AXLE EQUIPMENT AND
TIREMAN POWER TRUCKS \$.25 DIFFERENTIAL BY AXLE
TUNNEL WORK (UNDERGROUND ONLY) \$.40 DIFFERENTIAL BY
AXLE HAZARDOUS MATERIALS (IN HOT ZONE ONLY) \$2.00

PREMIUM FOOTNOTES: A. PAID HOLIDAYS: NEW
YEAR'S DAY, WASHINGTON'S BIRTHDAY, MEMORIAL DAY,
INDEPENDENCE DAY, LABOR DAY, PATRIOT'S DAY,
COLUMBUS DAY, VETERAN'S DAY, THANKSGIVING DAY AND
CHRISTMAS DAY B. PAID VACATION: EMPLOYEES

WITH 4 MONTHS TO 1 YEAR OF SERVICE RECEIVE 1/2
DAY'S PAY PER MONTH; 1 WEEK VACATION FOR 1 - 5
YEARS OF SERVICE; 2 WEEKS VACATION FOR 5 - 10 YEARS
OF SERVICE; AND 3 WEEKS VACATION FOR MORE THAN 10
YEARS OF SERVICE.....\$ 41.02

37.35

TRUCK DRIVERS: GROUP 2 TWO AXLE EQUIPMENT; &
FORKLIFT OPERATOR POWER TRUCKS \$.25 DIFFERENTIAL
BY AXLE TUNNEL WORK (UNDERGROUND ONLY) \$.40
DIFFERENTIAL BY AXLE HAZARDOUS MATERIALS (IN HOT
ZONE ONLY) \$2.00 PREMIUM FOOTNOTES: A.

PAID HOLIDAYS: NEW YEAR'S DAY, WASHINGTON'S
BIRTHDAY, MEMORIAL DAY, INDEPENDENCE DAY, LABOR
DAY, PATRIOT'S DAY, COLUMBUS DAY, VETERAN'S DAY,
THANKSGIVING DAY AND CHRISTMAS DAY B. PAID

VACATION: EMPLOYEES WITH 4 MONTHS TO 1 YEAR OF
SERVICE RECEIVE 1/2 DAY'S PAY PER MONTH; 1 WEEK
VACATION FOR 1 - 5 YEARS OF SERVICE; 2 WEEKS
VACATION FOR 5 - 10 YEARS OF SERVICE; AND 3 WEEKS
VACATION FOR MORE THAN 10 YEARS OF SERVICE.....\$ 40.95

37.35

TRUCK DRIVERS: GROUP 1 STATION WAGONS; PANEL

TRUCKS; AND PICKUP TRUCKS POWER TRUCKS \$.25
DIFFERENTIAL BY AXLE TUNNEL WORK (UNDERGROUND
ONLY) \$.40 DIFFERENTIAL BY AXLE HAZARDOUS
MATERIALS (IN HOT ZONE ONLY) \$2.00 PREMIUM

FOOTNOTES: A. PAID HOLIDAYS: NEW YEAR'S DAY,
WASHINGTON'S BIRTHDAY, MEMORIAL DAY, INDEPENDENCE
DAY, LABOR DAY, PATRIOT'S DAY, COLUMBUS DAY,
VETERAN'S DAY, THANKSGIVING DAY AND CHRISTMAS DAY

B. PAID VACATION: EMPLOYEES WITH 4 MONTHS TO 1
YEAR OF SERVICE RECEIVE 1/2 DAY'S PAY PER MONTH; 1
WEEK VACATION FOR 1 - 5 YEARS OF SERVICE; 2 WEEKS
VACATION FOR 5 - 10 YEARS OF SERVICE; AND 3 WEEKS
VACATION FOR MORE THAN 10 YEARS OF SERVICE.....\$ 40.78

37.35

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave
for Federal Contractors applies to all contracts subject to the
Davis-Bacon Act for which the contract is awarded (and any
solicitation was issued) on or after January 1, 2017. If this
contract is covered by the EO, the contractor must provide
employees with 1 hour of paid sick leave for every 30 hours
they work, up to 56 hours of paid sick leave each year.
Employees must be permitted to use paid sick leave for their
own illness, injury or other health-related needs, including
preventive care; to assist a family member (or person who is
like family to the employee) who is ill, injured, or has other
health-related needs, including preventive care; or for reasons
resulting from, or to assist a family member (or person who is
like family to the employee) who is a victim of, domestic
violence, sexual assault, or stalking. Additional information
on contractor requirements and worker protections under the EO
is available at
<https://url.us.m.mimecastprotect.com/s/QZ11CG62mgIwZx65tpimXhBA0xM?domain=dol.gov>.

Note: Executive Order 13658 generally applies to contracts subject
to the Davis-Bacon Act that were awarded on or between January 1,
2015 and January 29, 2022, and that have not been renewed or
extended on or after January 30, 2022. Executive Order 13658 does
not apply to contracts subject only to the Davis-Bacon Related Acts
regardless of when they were awarded. If a contract is subject to
Executive Order 13658, the contractor must pay all covered workers
at least \$13.65 per hour (or the applicable wage rate listed on this
wage determination, if it is higher) for all hours spent performing on
the contract from May 11, 2026, through December 31, 2026. The
applicable Executive Order minimum wage rate will be adjusted annually.

Additional information on contractor requirements and worker protections under Executive Order 13658 is available at <https://url.us.m.mimecastprotect.com/s/97kyCJ62plIxLGVEiLs34hyLAWH?domain=dol.gov>.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than SU , UAVG , SA , or SC denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The SU identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

SU wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The SA identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the SA identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

- a) a survey underlying a wage determination
- b) an existing published wage determination
- c) an initial WHD letter setting forth a position on a wage determination matter

- d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

- 2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

- 3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210.

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END OF GENERAL DECISION

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ATTACHMENT B – REGULATORY PERMIT DOCUMENTS



JURISDICTIONAL DETERMINATION NO. WW04-0000042, ISSUED SEPTEMBER 5, 2025



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

100 Cambridge Street Suite 900 Boston, MA 02114 • 617-292-5500

Maura T. Healey
Governor

Kimberley Driscoll
Lieutenant Governor

Rebecca L. Tepper
Secretary

Bonnie Heiple
Commissioner

September 5, 2025

City of Gloucester, c/o Michael Hale, Director of Public Works
c/o David Smith, GZA GeoEnvironmental, Inc.
144 Elm Street
Amesbury, MA 01913

Re: Jurisdictional Determination No. WW04-0000042; Request for Determination of Applicability Application No. 25-WW04-0005-APP: 24 Hough Avenue (Cressy Beach at Stage Fort Park), Flowed Tidelands of Gloucester Harbor, Gloucester, Essex County

Dear Mr. Hale:

Enclosed please find the Jurisdictional Determination for the above-referenced Request for a Determination of Applicability issued by the Department of Environmental Protection Waterways Regulation Program (the "Department") pursuant to M.G.L. Chapter 91 and 310 CMR 9.06. This Determination may be recorded at the Southern Essex County Registry of Deeds and a copy will be maintained in the Department's files.

Please contact the Waterways Regulation Program at dep.waterways@mass.gov if there are any questions.

Sincerely,

Daniel J. Padien
Program Chief
Waterways Regulation Program

cc: Gloucester Conservation Commission
Lucas Taylor, GZA GeoEnvironmental, Inc.



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

100 Cambridge Street Suite 900 Boston, MA 02114 • 617-292-5500

Maura T. Healey
Governor

Kimberley Driscoll
Lieutenant Governor

Rebecca L. Tepper
Secretary

Bonnie Heiple
Commissioner

Jurisdictional Determination No: WW04-0000042

Municipality: Gloucester, Essex County

DETERMINATION OF APPLICABILITY- 310 CMR 9.00

To: City of Gloucester
Michael Hale, Director of Public Works
28 Poplar Street
Gloucester, MA 01930

Location: Stage Fort Park
24 Hough Avenue
Gloucester, MA 01830
Parcel ID No: 216-140

Pursuant to 310 CMR 9.06, the Department of Environmental Protection Waterways Regulation Program (the “Department”) has reviewed this request for a Determination of Applicability (RDA) application and has made the determination:

The Determination is Negative. The work proposed in the Request for Determination of Applicability does not require a Chapter 91 License or Permit pursuant to M.G.L. Chapter 91 and the regulations at 310 CMR 9.00.

The subject application was filed on behalf of City of Gloucester (the “Applicant”) seeking a determination whether proposed repairs to an existing stone revetment requires a Chapter 91 License or Permit, pursuant to 310 CMR 9.05(1) and (2). The subject property is located at 24 Hough Avenue (Cressy Beach at Stage Fort Park), within Flowed Tidelands of Gloucester Harbor, Gloucester, Essex County (the “project site”).

Documentation in support of this request included:

- 1) A letter in support of this request, signed by David A. Smith, Senior Project Manager at GZA GeoEnvironmental, Inc., dated March 28, 2025;
- 2) Figure 1 titled “*Site Locus Map: Cressy Beach Continuing Revetment Storm Damage Repair Project, Gloucester, Massachusetts*”, prepared by GZA GeoEnvironmental, Inc., dated January 7, 2025;
- 3) A photographic log with four (4) photos of the project site;

This information is available in alternate format. Please contact MassDEP at 617-292-5500.

TTY# MassRelay Service 1-800-439-2370

MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

- 4) A plan set titled “*Cressy Beach Revetment – Storm Damage Repair Project, FEMA-4372-DR-MA (Project #670656), 24 Hough Ave, Gloucester, MA 01930*”, prepared by GZA GeoEnvironmental, Inc., not signed or sealed, dated March, 2025 and revised in May 2025.
- 5) Plan titled “*Plan Sowing the Taking of Land, Flats and Beach for Stage Fort Park, City of Gloucester, Mass., by the Board of Park Commissioners under Chapt. 459 Acts of 1897*”, (Essex Co. Registry of Deeds Book 1538 Plan No. 141), prepared and signed by Winslow L. Webber, City Engineer, dated February 5, 1898.

The proposed project consists of repairs to approximately 550 linear feet of an existing storm-damaged stone revetment along Cressy Beach at Stage Fort Park and restoration of a landscaped lawn area within the project site area. The Applicant anticipates that the proposed work will occur in the dry at times of low tides and above the mean high water elevation, as depicted on the referenced plan set. The proposed repairs involve:

- Resetting existing revetment armor stone;
- Placement of supplemental bedding and revetment armor stone to restore the structure;
- Placement of supplemental upper slope stone from the revetment crest to the landward edge of erosion as storm damage mitigation;
- Restoration of lawn areas and planting of a vegetated buffer along the top of slope landward of the revetment structure.

Jurisdictional Assessment

The Department utilizes cartographic tools and evaluates historical maps to delineate the boundaries and the landward extent of Chapter 91 jurisdiction. This process includes identification and mapping of the historic high water mark for the project shoreline that appears to have been altered by filling. This plan methodology also identifies the contemporary high water mark (or current high water mark which must be surveyed in the field in accordance with the definition of such at 310 CMR 9.02) which signals areas of minimal or no evidence of filling, such as stretches of natural shorelines, high rocky shorelines, or areas with the absence of coastal development or no evidence of human alteration.

The contemporary high water mark is also mapped in areas where the plan methodology shows a strong correlation between the historical shoreline position and the contemporary shoreline location. Based on this approach, for the purpose of determining Chapter 91 jurisdiction, the present day tidal datum information should be used, and/or the results of topographic field surveys performed in accordance with contemporary standards of practice (e.g., hydrographic survey techniques), as defined at 310 CMR 9.02.

Using the methodology described above, the Department evaluated three (3)¹ historical maps to establish Chapter 91 jurisdiction over the project area. The former high water mark shown on those survey maps was delineated to identify the limits of previously filled land onsite. Consequently, the location of the derived high water mark aligns with the contemporary shoreline demonstrating that the project site has not been altered by filling.

¹ U.S. Coast Survey Plan titled “Map of Cape Ann Including Gloucester Harbor and Vicinity”, T-Sheet No. 397-2, dated 1851, U.S. Coast Survey Plan titled “Gloucester Harbor, Massachusetts”, dated 1855, and the 1898 Deed Plan, Page No. 1.

Upon review of the documentation available and use of the cartographic tools and information described above, the Department finds that:

- The contemporary high water mark is the most landward shoreline at the project site;
- No historical filling of tidelands has been identified or appears to have occurred onsite;
- In the absence of filled tidelands, the most landward high water shoreline is the current mean high water mark obtained from the nearest NOAA Tidal Station (El. 4.2 ft NAVD88, Station ID No. 84411841) to the project site, as depicted on the plans listed above.

Conclusion

Based on the review of the above referenced documentation and the Department's own research and plan review, the Department hereby determines that:

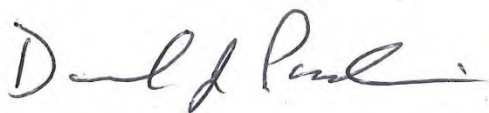
- 1) The existing stone revetment is landward of the contemporary high water mark of Gloucester Harbor. Accordingly, the stone revetment is located on uplands, which is a geographical area not subject to Chapter 91 jurisdiction, pursuant to 310 CMR 9.04(1);
- 2) The proposed repairs to the stone revetment and restoration of the landscaped lawn area located outside of Chapter 91 jurisdiction does not require a Chapter 91 License or Permit, pursuant to 310 CMR 9.05(1) and (2).

Please be advised, any change in use, construction, or activities listed in 310 CMR 9.05(1) and (2) to any portions of the project site located within Flowed Tidelands of Gloucester Harbor (seaward of the contemporary high water mark) on the project site are subject to authorization pursuant to M.G.L Chapter 91 and 310 CMR 9.00.

This Determination does not relieve the Applicant from complying with all other applicable Federal, State, or local statutes, ordinances, by-laws, or regulations.

Issued by the Department of Environmental Protection Waterways Regulation Program.

In Witness Whereas, said Department of Environmental Protection have hereunto set their hands this 5th day of September in the year 2025.



Daniel J. Padien
Program Chief
Waterways Regulation Program

Encl: Notice of Appeal Rights

NOTICE OF APPEAL RIGHTS

Who has the right to appeal?

The following persons shall have the right to an adjudicatory hearing concerning this decision by the Department to grant or deny a license or permit, in accordance with 310 CMR 9.17(1): (a) an Applicant who has demonstrated property rights in the lands in question, or which is a public agency; (b) any person aggrieved by the decision of the Department to grant a license or permit who has submitted written comments within the public comment period; (c) ten (10) residents of the Commonwealth who, pursuant to M.G.L. Chapter 30A, § 10A, have submitted comments within the public comment period with at least 5 of the 10 residents residing in the municipality(s) in which the license or permitted activity is located. The appeal shall clearly and specifically state the facts and grounds for the appeal and the relief sought, and each appealing resident shall file an affidavit stating the intent to be part of the group and to be represented by its authorized representative; (d) the municipal official in the affected municipality who has submitted written comments within the public comment period; and (e) MassCZM, for any project identified in 310 CMR 9.13(2)(a) for MassCZM participation or, in an Ocean Sanctuary, if it has filed a notice of participation within the public comment period.

How can I request an adjudicatory hearing?

A person requesting an adjudicatory hearing must submit a "Notice of Claim" to the Department, with a copy of the MassDEP Adjudicatory Hearing Fee Transmittal Form and include the details specified below, within twenty-one (21) days of the date of issuance of this decision. The MassDEP Transmittal Form is available at the following website: <https://www.mass.gov/doc/adjudicatory-hearing-fee-transmittal-form> The Notice of Claim must be made in writing and sent by certified mail or hand delivery to:

MassDEP
Office of Appeals and Dispute Resolution
Case Administrator
100 Cambridge Street, Suite 900
Boston, MA 02114

A copy of the complete Notice of Claim must be sent at the same time by certified mail or hand delivery to: (1) the Applicant, (2) the municipal official of the city or town where the project is located, and (3) the issuing office of the MassDEP, which in this case is located at:

MassDEP
Waterways Regulation Program
100 Cambridge Street, Suite 900
Boston, MA 02114

The MassDEP Adjudicatory Hearing Fee Transmittal Form and a valid check payable to "The Commonwealth of Massachusetts" in the amount of one hundred dollars (\$100) must be mailed to:

MassDEP
Commonwealth Master Lockbox
P.O. Box 4062
Boston, MA 02211

What information must be included in the hearing request?

Pursuant to 310 CMR 9.17(3), any Notice of Claim requesting an adjudicatory hearing must include the following:

- (a) the MassDEP Waterways Application File Number;
- (b) the complete name, address, fax number and telephone number of the Applicant;
- (c) the address of the project;
- (d) the complete name, address, fax number, and telephone number of the party filing the request and, if represented by counsel, the name, address, fax number, and phone number of the attorney;
- (e) if claiming to be a person aggrieved, the specific facts that demonstrate that the party satisfies the definition of "aggrieved person" found in 310 CMR 9.02;
- (f) a clear statement that a formal adjudicatory hearing is being requested;

24 Hough Avenue, Cressy Beach at Stage Fort Park, Gloucester Harbor, Gloucester, Essex County

- (g) a clear statement of the facts which are the grounds for the proceedings, the specific objections to the MassDEP's written decision, and the relief sought through the adjudicatory hearing, including specifically the changes desired in the final written decision; and
- (h) a statement that a copy of the request has been sent to: the Applicant and the municipal official of the city or town where the project is located.

Dismissal of request

The request for appeal will be dismissed if the filing fee is not paid unless the appellant is exempt or is granted a waiver.

Exemptions

The filing fee is not required if the appellant is a city or town (or municipal agency), county, or district of the Commonwealth of Massachusetts, or a municipal housing authority.

Waiver

The Department may waive the adjudicatory hearing filing fee pursuant to 310 CMR 4.06(2) for a person who shows that paying the fee will create an undue financial hardship. A person seeking a waiver must file an affidavit setting forth the facts believed to support the claim of undue financial hardship together with the hearing request as provided above.



MEPA ADVISORY OPINION, ISSUED OCTOBER 20, 2025



The Commonwealth of Massachusetts
Executive Office of Energy and Environmental Affairs
100 Cambridge Street, Suite 900
Boston, MA 02114

Maura T. Healey
GOVERNOR

Kimberley Driscoll
LIEUTENANT GOVERNOR

Rebecca L. Tepper
SECRETARY

Tel: (617) 626-1000
Fax: (617) 626-1081
<http://www.mass.gov/eea>

October 20, 2025

David A. Smith, Senior Project Manager
GZA Geoenvironmental, Inc.
144 Elm Street
Amesbury, MA 01913

Email: David.Smith@Gza.com

Re: Request for Advisory Opinion: Cressy Beach Revetment – Gloucester, MA

Dear Mr. Smith,

On behalf of Secretary Rebecca Tepper, I write to respond to your letter of September 12, 2025 (“September 12 letter”), in which you requested an advisory ruling on behalf of the City of Gloucester (“City” or the “Proponent”) as to whether review under the Massachusetts Environmental Policy Act (MEPA) is required for the project referenced above (“Project”). Your letter required consultation with the Office of Coastal Zone Management (CZM) and the Massachusetts Department of Environmental Protection (MassDEP).

Background

As described in your September 12 letter, the Project is located at a City-owned public beach on the southern end of Stage Fort Park in Gloucester. The Cressy Beach shoreline consists of an approximately 1,200-foot-long existing shoreline protection structure. The east and west ends consist of stone masonry seawalls, totaling approximately 330 linear feet (lf), and a stone revetment spans between the seawall sections, totaling approximately 870 lf. Based on available information, the shoreline protection at the site included a seawall along Cressy Beach constructed in 1936 as part of a Works Progress Administration project.¹ According to the September 12 letter, the existing stone revetment

¹ Executive Order 7034 established the Works Progress Administration under President Roosevelt’s New Deal which employed jobseekers to carry out public works projects during the Great Depression.

structure was damaged by Storm Riley (FEMA-4372-DR-MA) in 2018. Additional erosion, displaced revetment stones, and landside damage resulted during a January 13, 2024 storm event.

According to the September 12 letter, the project consists of in-kind repairs to the existing storm damaged stone revetment and restoration of landscaped lawn area. Repairs will include resetting existing revetment armor stone, placement of supplemental bedding and revetment armor stone to restore the structure to pre-disaster geometry. Revetment repair also includes the placement of supplemental upper slope stone from the revetment crest to the landward edge of erosion. The existing landscaped lawn areas landward of the revetment structure repair are proposed to be restored in-kind upon completion of revetment repair work and a vegetated buffer planted along the top of slope landward of the revetment structure. The project will be funded through the Federal Emergency Management Agency (FEMA) Public Assistance Grant Program (75%) with the remaining 25% provided by the City.

Determination

Under MEPA regulations at 301 CMR 11.00, MEPA review is required when a project requires an Agency Action (including a Permit, Land Transfer, or Financial Assistance) and meets or exceeds one or more MEPA review thresholds.

Your letter asserts that the Project is exempt from MEPA review because it qualifies as a “Replacement Project,” which is defined in 301 CMR 11.02 as follows:

Replacement Project. Any Project to repair, replace, or reconstruct a previous use of or Project on a Project site that does not:

- (a) increase potential environmental impacts or need additional or changed environmental Permits; or
- (b) result in any substantial (10% or more) Expansion of the use or Project, provided that the previous use or Project has not been discontinued for more than three years and that the Expansion does not meet or exceed any review thresholds.

As indicated in the September 12 letter, the Proponent requested a Determination of Applicability from the MassDEP Waterways Regulation Program and received a determination indicating that the Project does not require a Chapter 91 License or Permit. In addition, you have indicated that impacts to areas below Mean High Water will be less than 5,000 square feet (sf), meaning that the Order of Conditions from the Gloucester Conservation Commission will serve as a 401 Water Quality Certification (WQC) under MassDEP’s 401 Program pursuant to 314 CMR 9.03(1). This was confirmed in an email from the MassDEP 401 WQC Program which was attached to the September 12 letter.² Accordingly, no Agency Action is required in the form of an individual 401 WQC.

* * * * *

Based on the foregoing, no MEPA review is required as the Project does not require any Agency Actions that would confer MEPA jurisdiction. Based on this determination, it is unnecessary to make a further determination regarding whether the Project qualifies as a Replacement Project under 301 CMR 11.02.

² Email from David Wong, MassDEP, to Luke Taylor, GZA, dated March 28, 2025.

If you have any questions regarding this determination, please contact Jennifer Hughes, Deputy Director, at jennifer.hughes@mass.gov.

Sincerely,

/s/ *Tori T. Kim*

Tori T. Kim

Assistant Secretary

cc: MassDEP Waterways (c/o Chrissy Hopps, Assistant Director)
MassDEP 401 WQC (c/o David Wong)



AMENDED ORDER OF CONDITIONS NO. 028-3100, ISSUED MAY 28, 2026

City Hall Annex
Three Pond Road
Gloucester, MA 01930



KATIE KNEELAND
Asst. Conservation Agent
tel 978-325-5234
kkneeland@gloucester-ma.gov

**CITY OF GLOUCESTER
Community Development Department
Conservation Division**

May 28, 2026

City of Gloucester DPW
28 Poplar Street
Gloucester, MA 01930

**Re: Amended Order of Conditions
Site: 24 Hough Avenue
DEP File # 028-3100**

Dear Mr. Patel,

Enclosed you will find the Amended Order of Conditions (OOC) issued pursuant to the Wetlands Protection Act (M.G.L. chapter 131, S40) and its implementing regulations (310 CMR S 10.00) and the City of Gloucester Wetlands Ordinance (12-20) for the property referenced above in Gloucester, MA regarding the *Modifications the repairs to existing damaged revetment and landscaping repairs in Coastal Resource Areas, LSCSF, and Buffer Zone to Coastal Resource Areas.*

No work on the project may begin until the following requirements have been satisfied:

- You have read and understood the enclosed Order of Conditions. It is the responsibility of the owner/applicant to ensure that all conditions and approved plans are complied with. Deviation from the approved plans or conditions may result in a stop work order or further enforcement, as well as the inability to obtain a Certificate of Compliance at project completion.
- The 10-business day local appeal period has elapsed.
- The Order of Conditions is recorded at the Essex registry of Deeds at 100 Cummings Center, Suite 206-C, Beverly, MA.
*The registry will not record copies.
- You have forwarded proof of recording to the Conservation Office. This Order is not valid until it is recorded.
- Your DEP file-number sign has been erected at the project entrance.
- If requested in the Order, you have contacted the Conservation Office to arrange for a "pre-construction meeting or site visit" to inspect and approve erosion controls, to submit the names(s) and phone number(s) of the parties responsible for work on the site (e.g. contractor, erosion control monitors, field engineer, and/or wetland scientist), and to discuss other matters of construction as applicable.
- **This decision does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations. Building permits are required for all construction.**

Upon completion of the project, you must:

- Submit a "Request for a Certificate of Compliance" (State WPA Form 8a) along with a check for \$70.00.
- Submit a letter from an engineer or the parties responsible for the work stating that the project was completed in substantial compliance with the order and the plans.
- Record your Certificate of Compliance at the Essex South Registry of Deeds and send proof of recording to the Conservation Office.

If you have any questions or concerns, please contact the Conservation Office at (978)325-5234.

Sincerely,

Katie Kneeland
Assistant Conservation Agent
cc: DEP NERO
File



Massachusetts Department of Environmental Protection

eDEP Transaction Copy

Here is the file you requested for your records.

To retain a copy of this file you must save and/or print.

Username: **GLOUCESTERCC**

Transaction ID: **2019434**

Document: **WPA Form 5 - OOC**

Size of File: **151.64K**

Status of Transaction: **In Process**

Date and Time Created: **5/28/2026:11:25:11 AM**

Note: This file only includes forms that were part of your transaction as of the date and time indicated above. If you need a more current copy of your transaction, return to eDEP and select to "Download a Copy" from the Current Submittals page.



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

Provided by MassDEP:
MassDEP File #:028-3100
eDEP Transaction
#:2019434
City/Town:GLOUCESTER

A. General Information

1. Conservation Commission	GLOUCESTER		
2. Issuance	a. ☐ OOC	b. ☒ Amended OOC	
3. Applicant Details			
a. First Name	MICHAEL	b. Last Name	HALE
c. Organization	CITY OF GLOUCESTER		
d. Mailing Address	28 POPLAR STREET		
e. City/Town	GLOUCESTER	f. State	MA
		g. Zip Code	01930
4. Property Owner			
a. First Name	MICHAEL	b. Last Name	HALE
c. Organization	CITY OF GLOUCESTER		
d. Mailing Address	28 POPLAR STREET		
e. City/Town	GLOUCESTER	f. State	MA
		g. Zip Code	01930
5. Project Location			
a. Street Address	24 HOUGH AVENUE		
b. City/Town	GLOUCESTER	c. Zip Code	01930
d. Assessors	216	e. Parcel/Lot#	140
Map/Plat#			
f. Latitude	42.60265N	g. Longitude	70.68023W
6. Property recorded at the Registry of Deed for:			
a. County	b. Certificate	c. Book	d. Page
SOUTHERN ESSEX		1543	141
7. Dates			
a. Date NOI Filed : 11/24/2025	b. Date Public Hearing Closed: 5/20/2026	c. Date Of Issuance: 5/28/2026	
8. Final Approved Plans and Other Documents			
a. Plan Title:	b. Plan Prepared by:	c. Plan Signed/Stamped by:	d. Revised Final Date: e. Scale:
CRESSY BEACH	GZA		
REVTMENT	GEOENVIRONMENTAL,	4/16/2026	VARIOUS
VARIOUS PLANS	INC.		SCALES

B. Findings

1. Findings pursuant to the Massachusetts Wetlands Protection Act
Following the review of the the above-referenced Notice of Intent and based on the information provided in this application and presented at the public hearing, this Commission finds that the areas in which work is proposed is significant to the following interests of the Wetlands Protection Act.

Check all that apply:

a. ☐ Public Water Supply	b. ☒ Land Containing Shellfish	c. ☐ Prevention of Pollution
d. ☐ Private Water Supply	e. ☒ Fisheries	f. ☒ Protection of Wildlife Habitat
g. ☐ Ground Water Supply	h. ☒ Storm Damage Prevention	i. ☒ Flood Control



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

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City/Town:GLOUCESTER

2. Commission hereby finds the project, as proposed, is:

Approved subject to:

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

Denied because:

- b. ☐ The proposed work cannot be conditioned to meet the performance standards set forth in the wetland regulations. Therefore, work on this project may not go forward unless and until a new Notice of Intent is submitted which provides measures which are adequate to protect interests of the Act, and a final Order of Conditions is issued. **A description of the performance standards which the proposed work cannot meet is attached to this Order.**
- c. ☐ The information submitted by the applicant is not sufficient to describe the site, the work or the effect of the work on the interests identified in the Wetlands Protection Act. Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides sufficient information and includes measures which are adequate to protect the interests of the Act, and a final Order of Conditions is issued. **A description of the specific information which is lacking and why it is necessary is attached to this Order as per 310 CMR 10.05(6)(c).**

3. ☐ Buffer Zone Impacts: Shortest distance between limit of project disturbance and the wetland resource area specified in 310CMR10.02(1)(a).

a. linear feet

Inland Resource Area Impacts:(For Approvals Only):

Resource Area	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
4. ☐ Bank	a. linear feet	b. linear feet	c. linear feet	d. linear feet
5. ☐ Bordering Vegetated Wetland	a. square feet	b. square feet	c. square feet	d. square feet
6. ☐ Land under Waterbodies and Waterways	a. square feet	b. square feet	c. square feet	d. square feet
	e. c/y dredged	f. c/y dredged		
7. ☐ Bordering Land Subject to Flooding	a. square feet	b. square feet	c. square feet	d. square feet
Cubic Feet Flood Storage	e. cubic feet	f. cubic feet	g. cubic feet	h. cubic feet
8. ☐ Isolated Land Subject to Flooding	a. square feet	b. square feet		
Cubic Feet Flood Storage	c. cubic feet	d. cubic feet	e. cubic feet	f. cubic feet



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 5 - Order of Conditions

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Provided by MassDEP:

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City/Town:GLOUCESTER

9. ☐ Riverfront Area

	<u> </u>	<u> </u>		
	a. total sq. feet	b. total sq. feet		
Sq ft within 100 ft	<u> </u>	<u> </u>	<u> </u>	<u> </u>
	c. square feet	d. square feet	e. square feet	f. square feet
Sq ft between 100-200 ft	<u> </u>	<u> </u>	<u> </u>	<u> </u>
	g. square feet	h. square feet	i. square feet	j. square feet

Coastal Resource Area Impacts:

Resource Area	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
---------------	------------------------	-------------------------	-------------------------	--------------------------

10. ☐ Designated Port Areas

Indicate size under Land Under the Ocean, below

11. ☐ Land Under the Ocean

a. square feet b. square feet

c. c/y dredged d. c/y dredged

12. ☐ Barrier Beaches

Indicate size under Coastal Beaches and/or Coastal Dunes below

13. ☒ Coastal Beaches

14400 14400 0 0
a. square feet b. square feet c. c/y nourishment d. c/y nourishment

14. ☐ Coastal Dunes

a. square feet b. square feet c. c/y nourishment d. c/y nourishment

15. ☒ Coastal Banks

550 550
a. linear feet b. linear feet

16. ☐ Rocky Intertidal Shores

a. square feet b. square feet

17. ☐ Salt Marshes

a. square feet b. square feet c. square feet d. square feet

18. ☐ Land Under Salt Ponds

a. square feet b. square feet

c. c/y dredged d. c/y dredged

19. ☐ Land Containing Shellfish

a. square feet b. square feet c. square feet d. square feet

20. ☐ Fish Runs

Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above

c. c/y dredged d. c/y dredged

21. ☒ Land Subject to Coastal Storm Flowage

67594 67594
a. square feet b. square feet

22.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 5 - Order of Conditions

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

Provided by MassDEP:

MassDEP File #:028-3100

eDEP Transaction #:2019434

City/Town:GLOUCESTER

☐ Restoration/Enhancement (For Approvals Only)

If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.5.c & d or B.17.c & d above, please enter the additional amount here.

a. square feet of BVW

b. square feet of Salt Marsh

23.

☐ Streams Crossing(s)

If the project involves Stream Crossings, please enter the number of new stream crossings/number of replacement stream crossings.

a. number of new stream crossings

b. number of replacement stream crossings

C. General Conditions Under Massachusetts Wetlands Protection Act

The following conditions are only applicable to Approved projects

1. Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Order.
2. The Order does not grant any property rights or any exclusive privileges; it does not authorize any injury to private property or invasion of private rights.
3. This Order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.
4. The work authorized hereunder shall be completed within three years from the date of this Order unless either of the following apply:
 - a. the work is a maintenance dredging project as provided for in the Act; or
 - b. the time for completion has been extended to a specified date more than three years, but less than five years, from the date of issuance. If this Order is intended to be valid for more than three years, the extension date and the special circumstances warranting the extended time period are set forth as a special condition in this Order.
5. This Order may be extended by the issuing authority for one or more periods of up to three years each upon application to the issuing authority at least 30 days prior to the expiration date of the Order.
6. If this Order constitutes an Amended Order of Conditions, this Amended Order of Conditions does not exceed the issuance date of the original Final Order of Conditions.
7. Any fill used in connection with this project shall be clean fill. Any fill shall contain no trash, refuse, rubbish, or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard, pipe, tires, ashes, refrigerators, motor vehicles, or parts of any of the foregoing.
8. This Order is not final until all administrative appeal periods from this Order have elapsed, or if such an appeal has been taken, until all proceedings before the Department have been completed.
9. No work shall be undertaken until the Order has become final and then has been recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to be done. In the case of the registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done. The recording information shall be submitted to the Conservation Commission on the form at the end of this Order, which form must be stamped by the Registry of Deeds, prior to the commencement of work..
10. A sign shall be displayed at the site not less than two square feet or more than three square feet in size bearing the words,



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 5 - Order of Conditions

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

Provided by MassDEP:
MassDEP File #:028-3100
eDEP Transaction #:2019434
City/Town:GLOUCESTER

" Massachusetts Department of Environmental Protection"
[or 'MassDEP']
File Number : "028-3100"

11. Where the Department of Environmental Protection is requested to issue a Superseding Order, the Conservation Commission shall be a party to all agency proceedings and hearings before Mass DEP.
12. Upon completion of the work described herein, the applicant shall submit a Request for Certificate of Compliance (WPA Form 8A) to the Conservation Commission.
13. The work shall conform to the plans and special conditions referenced in this order.
14. Any change to the plans identified in Condition #13 above shall require the applicant to inquire of the Conservation Commission in writing whether the change is significant enough to require the filing of a new Notice of Intent.
15. The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Order at reasonable hours to evaluate compliance with the conditions stated in this Order, and may require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.
16. This Order of Conditions shall apply to any successor in interest or successor in control of the property subject to this Order and to any contractor or other person performing work conditioned by this Order.
17. Prior to the start of work, and if the project involves work adjacent to a Bordering Vegetated Wetland, the boundary of the wetland in the vicinity of the proposed work area shall be marked by wooden stakes or flagging. Once in place, the wetland boundary markers shall be maintained until a Certificate of Compliance has been issued by the Conservation Commission.
18. All sedimentation barriers shall be maintained in good repair until all disturbed areas have been fully stabilized with vegetation or other means. At no time shall sediments be deposited in a wetland or water body. During construction, the applicant or his/her designee shall inspect the erosion controls on a daily basis and shall remove accumulated sediments as needed. The applicant shall immediately control any erosion problems that occur at the site and shall also immediately notify the Conservation Commission, which reserves the right to require additional erosion and/or damage prevention controls it may deem necessary. Sedimentation barriers shall serve as the limit of work unless another limit of work line has been approved by this Order.

NOTICE OF STORMWATER CONTROL AND MAINTENANCE REQUIREMENTS

19. The work associated with this Order(the "Project") is (1) ☐ is not (2) ☒ subject to the Massachusetts Stormwater Standards. If the work is subject to Stormwater Standards, then the project is subject to the following conditions;
 - a) All work, including site preparation, land disturbance, construction and redevelopment, shall be implemented in accordance with the construction period pollution prevention and erosion and sedimentation control plan and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollutant Discharge Elimination System Construction General Permit as required by Stormwater Standard 8. Construction period erosion, sedimentation and pollution control measures and best management practices (BMPs) shall remain in place until the site is fully stabilized.
 - b) No stormwater runoff may be discharged to the post-construction stormwater BMPs unless and until a Registered Professional Engineer provides a Certification that: *i.* all construction period BMPs have been removed or will be removed by a date certain specified in the Certification. For any construction period BMPs intended to be converted to post construction operation for stormwater attenuation, recharge, and/or treatment, the conversion is allowed by the MassDEP Stormwater Handbook BMP specifications and that the BMP has been properly cleaned or prepared for post construction operation, including removal of all construction period sediment trapped in inlet and outlet control structures; *ii.* as-built final construction BMP plans are included, signed and stamped by a Registered Professional Engineer, certifying the site is



**Massachusetts Department of Environmental
Protection**

Bureau of Resource Protection - Wetlands

WPA Form 5 - Order of Conditions

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

Provided by MassDEP:
MassDEP File #:028-3100
eDEP Transaction #:2019434
City/Town:GLOUCESTER

- fully stabilized; *iii.* any illicit discharges to the stormwater management system have been removed, as per the requirements of Stormwater Standard 10; *iv.* all post-construction stormwater BMPs are installed in accordance with the plans (including all planting plans) approved by the issuing authority, and have been inspected to ensure that they are not damaged and that they are in proper working condition; *v.* any vegetation associated with post-construction BMPs is suitably established to withstand erosion.
- c) The landowner is responsible for BMP maintenance until the issuing authority is notified that another party has legally assumed responsibility for BMP maintenance. Prior to requesting a Certificate of Compliance, or Partial Certificate of Compliance, the responsible party (defined in General Condition 19(e)) shall execute and submit to the issuing authority an Operation and Maintenance Compliance Statement ("O&M Statement") for the Stormwater BMPs identifying the party responsible for implementing the stormwater BMP Operation and Maintenance Plan ("O&M Plan") and certifying the following: *i.*) the O&M Plan is complete and will be implemented upon receipt of the Certificate of Compliance, and *ii.*) the future responsible parties shall be notified in writing of their ongoing legal responsibility to operate and maintain the stormwater management BMPs and implement the Stormwater Pollution Prevention Plan.
 - d) Post-construction pollution prevention and source control shall be implemented in accordance with the long-term pollution prevention plan section of the approved Stormwater Report and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollutant Discharge Elimination System Multi-Sector General Permit.
 - e) Unless and until another party accepts responsibility, the landowner, or owner of any drainage easement, assumes responsibility for maintaining each BMP. To overcome this presumption, the landowner of the property must submit to the issuing authority a legally binding agreement of record, acceptable to the issuing authority, evidencing that another entity has accepted responsibility for maintaining the BMP, and that the proposed responsible party shall be treated as a permittee for purposes of implementing the requirements of Conditions 19(f) through 19(k) with respect to that BMP. Any failure of the proposed responsible party to implement the requirements of Conditions 19(f) through 19(k) with respect to that BMP shall be a violation of the Order of Conditions or Certificate of Compliance. In the case of stormwater BMPs that are serving more than one lot, the legally binding agreement shall also identify the lots that will be serviced by the stormwater BMPs. A plan and easement deed that grants the responsible party access to perform the required operation and maintenance must be submitted along with the legally binding agreement.
 - f) The responsible party shall operate and maintain all stormwater BMPs in accordance with the design plans, the O&M Plan, and the requirements of the Massachusetts Stormwater Handbook.
 - g) The responsible party shall:
 - 1. Maintain an operation and maintenance log for the last three (3) consecutive calendar years of inspections, repairs, maintenance and/or replacement of the stormwater management system or any part thereof, and disposal (for disposal the log shall indicate the type of material and the disposal location);
 - 2. Make the maintenance log available to MassDEP and the Conservation Commission ("Commission") upon request; and
 - 3. Allow members and agents of the MassDEP and the Commission to enter and inspect the site to evaluate and ensure that the responsible party is in compliance with the requirements for each BMP established in the O&M Plan approved by the issuing authority.
 - h) All sediment or other contaminants removed from stormwater BMPs shall be disposed of in accordance with all applicable federal, state, and local laws and regulations.
 - i) Illicit discharges to the stormwater management system as defined in 310 CMR 10.04 are prohibited.
 - j) The stormwater management system approved in the Order of Conditions shall not be changed without the prior written approval of the issuing authority.
 - k) Areas designated as qualifying pervious areas for the purpose of the Low Impact Site Design Credit (as



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Bureau of Resource Protection - Wetlands

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defined in the MassDEP Stormwater Handbook, Volume 3, Chapter 1, Low Impact Development Site Design Credits) shall not be altered without the prior written approval of the issuing authority.

- 1) Access for maintenance, repair, and/or replacement of BMPs shall not be withheld. Any fencing constructed around stormwater BMPs shall include access gates and shall be at least six inches above grade to allow for wildlife passage.

Special Conditions:

PLEASE SEE ATTACHED SHEETS.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

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D. Findings Under Municipal Wetlands Bylaw or Ordinance

1. Is a municipal wetlands bylaw or ordinance applicable? ☒ Yes ☐ No

2. The Conservation Commission hereby (check one that applies):

a. ☐ DENIES the proposed work which cannot be conditioned to meet the standards set forth in a municipal ordinance or bylaw specifically:

1. Municipal Ordinance or Bylaw _____

2. Citation _____

Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides measures which are adequate to meet these standards, and a final Order of Conditions is issued. Which are necessary to comply with a municipal ordinance or bylaw:

b. ☒ APPROVES the proposed work, subject to the following additional conditions.

1. Municipal Ordinance or Bylaw GLOUCESTER
WETLANDS
ORDINANCE

2. Citation CHAPTER 12, ARTICLE II

3. The Commission orders that all work shall be performed in accordance with the following conditions and with the Notice of Intent referenced above. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, the conditions shall control.

The special conditions relating to municipal ordinance or bylaw are as follows:
PLEASE SEE ATTACHED SHEETS.

City Hall Annex
Three Pond Road
Gloucester, MA 01930



CHUCK SCHADE
Conservation Agent
tel 978-325-5233
cschade@gloucester-ma.gov

**CITY OF GLOUCESTER
Community Development Department
Conservation Office**

City of Gloucester DPW
28 Poplar Street
Gloucester, MA 01930

Re: Amended Order of Conditions
Site: 24 Hough Avenue
DEP File # 028-3100

ATTACHMENT TO ORDER OF CONDITIONS

Conditions attached to the Amended Order of Conditions issued pursuant to the Massachusetts Wetlands Protections Act (M.G.L. Chapter 133, Section 40) and its implementing Regulation (310 CMR 10.00-10.60), and the Gloucester Wetland Ordinance (Sections 12-1—12-9) and its implementing regulations.

This Amended Order of Conditions permits the following:

Repairs to existing damaged revetment and landscaping repairs in Coastal Resource Areas, LSCSF, and Buffer Zone to Coastal Resource Areas.

The following Special Conditions have been identified by the **Gloucester Conservation Commission** to be included in the Amended Order of Conditions for this project.

Administrative and Procedural Requirements

- SC1. All work shall conform to the Notice of Intent, plans, reports, and special conditions.
- SC2. A copy of this Order shall be included in all construction contracts and shall supersede any conflicting requirements.
- SC3. A copy of this Order as well as the plan referenced in this Order shall be available on site while activities regulated by this Order are being performed. In addition to the owners, all contractors and subcontractors shall be held responsible for compliance with this Order.
- SC4. No work shall commence onsite until all appeal periods have elapsed, and this Order has been recorded with the Registry of Deeds and Gloucester Conservation Commission (GCC) has been formally notified via the form provided at the end of this Order.
- SC5. This Order shall apply to any successor or assigns in interest or control and any other party engaging in activity on the property identified in the Notice of Intent. The applicant shall notify GCC in writing within 30 days of all transfers of title of any portion of property that takes place prior to the issuance of a Certificate of Compliance.

- SC6. Any proposed change in the plans approved under this Order shall require the applicant to inquire of GCC in writing whether the change is substantial enough to require the filing of a new Notice of Intent. Any errors in the plans or information submitted by the applicant shall be considered changes and the above procedures shall be followed. Failure to abide by this Special Condition will result in potential enforcement action on the part of the Commission.
- SC7. Members and agents of MassDEP and the GCC shall have the right to enter and inspect the premises to evaluate compliance with the conditions contained in this Order and may require the submittal of additional information deemed necessary.
- SC8. The applicant will obtain all other necessary federal, state and local licenses and permits, prior to conducting proposed work.

Pre-Construction Conditions

- SC9. Prior to the start of work on site, except for the installation of erosion controls, the applicant shall submit the landscape planting plan with additional trees, and invasive species removal plan to the Conservation Office.
- SC10. Prior to the start of work on site, except for the installation of erosion controls, the applicant shall arrange a pre-construction meeting between the applicant, the project supervisor, the contractor(s) performing the work, a representative from the GCC to ensure the requirements of the Order are understood. Arrangements for the meeting shall be made at least two (2) weeks prior to any activity.
- SC11. Prior to the Pre-Construction meeting, all erosion controls shall be installed, by survey, along the line as shown on plans approved by the Commission. The Commission or its agent shall inspect the location and installation of erosion controls.
- SC12. No clearing of trees, or disturbance of soils shall occur prior to the Pre-Construction meeting, except that minimal disturbance of shrubs and herbaceous plants absolutely necessary in order to place erosion or sedimentation control devices where required.
- SC13. Prior to the pre-construction meeting, the applicant shall provide GCC with a contact list containing the telephone number, address, and email for the project supervisor and site contractor(s).

During Construction Conditions

- SC14. Any damage caused as a direct result of this project to any resource areas shall be the responsibility of the applicant to repair or restore. Sedimentation of any resource area shall be considered fill of that resource area.
- SC15. At no time during or after construction shall fill or other materials be placed, slump into, or fall beyond the limit of work. The applicant shall be responsible for inspecting and maintaining all slopes and shall immediately notify the GCC if slumping, erosion or encroachment occurs.
- SC16. All waste products, refuse, debris, grubbed stumps, slash, excavate, construction materials, etc. shall be disposed of in a legal manner and shall not be incorporated in any manner into the project

- SC17. Storing, servicing, or cleaning of equipment, including, but not limited to fueling, changing, adding, or applying lubricants or hydraulic fluids, or washing/rinsing of trucks or equipment, shall be performed outside of the 100-foot Buffer Zone to all Resource Areas unless authorization is obtained from GCC. Equipment operators shall be prepared to immediately respond to accidental releases of fuel, motor oil, and other liquids through containment.
- SC18. The applicant shall have absorbent materials for use in containing accidental spills available on site at all times. If any release of fuel, motor oil, lubricating oils, etc. occurs, the applicant or designee shall immediately notify the GCC at 978-325-5233. A response action or cleanup shall be conducted pursuant to GL c. 21E (Massachusetts Oil and Hazardous Material Release Prevention and Response Act) and the Massachusetts Contingency Plan (MCP).
- SC19. An adequate reserve of erosion control materials shall be on site at all times for emergency or routine replacement.
- SC20. GCC reserves the right to require additional erosion controls if deemed necessary. GCC shall have the authority to stop construction for erosion control purposes.

Mitigation Planting

- SC21. Native plantings will be installed in accordance to the Plan referenced in the Order. Once the plants have been established, the applicant shall be responsible for monitoring them for survival for two growing seasons. Any plantings that fail during this period will be immediately replaced at the expense of the Applicant. Species tags should be left on the plantings for identification during the final site visit. At the end of the two seasons, a written status report of the plantings accompanied by photographs should be provided to the Conservation Office. The report shall include a description of the plant conditions including details on the inventory planted, as well as the stability, health, growth and vigor of planted inventory. A Certificate of Compliance will not be issued until this condition has been met.

After Construction Conditions

- SC24. Upon completion of the project, the applicant shall request a Certificate of Compliance (WPA Form 8A) from GCC and shall submit the following information with the request:
- a. A written statement prepared and signed by a professional engineer registered in the Commonwealth of Massachusetts certifying compliance with the approved plans referenced above and in this Order and setting forth deviations if any exist.
 - b. An as-built site plan prepared and stamped by a registered professional engineer in the Commonwealth of Massachusetts showing the location and grades of the project shown in one (1) foot contours.

Perpetual and Continuing Conditions

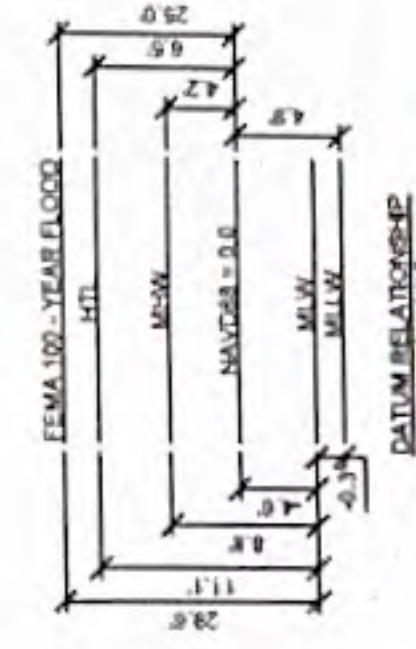
- SC25. Additional Alteration Prohibited: There shall be no additional alterations of areas under Conservation Commission jurisdiction without the required review and permit(s). This condition shall survive the expiration of this Order, and shall be included as a continuing condition in perpetuity on the Certificate of Compliance.
- SC26. Further alteration within the restoration or mitigation area is prohibited, except as may be required to maintain the area in its restored or mitigated condition.

GENERAL NOTES

1. VERTICAL DATUM: ELEVATIONS ARE IN FEET AND REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). MLLW=4.6, NAVD88=0.0, MHHW=4.2, HTL=6.5, TIDAL DATUM RELATIONSHIP AND CONVERSION REFERENCED TO NOAA TIDAL STATION ID 8441841, GLOUCESTER HARBOR, MA.
2. HORIZONTAL DATUM: MASSACHUSETTS STATE PLANE, MANLAND, NAD83, US SURVEY FEET.
3. LIMITED TOPOGRAPHIC SURVEY PERFORMED BY GZA GEOENVIRONMENTAL, INC. ON SEPTEMBER 14, 2022. SUPPLEMENTAL TOPOGRAPHIC SURVEY PERFORMED ON JANUARY 8, 2023, AND REPRESENTS THE CONDITIONS AT THE TIME OF THE SURVEY.
4. PROPERTY LINES ARE APPROXIMATE AND WERE DERIVED FROM ONLINE AVAILABLE MASSGIS DATA LAYERS. PROPERTY RECORDS AT THE REGISTRY OF DEEDS BOOK 1541, PAGE 141.
5. FEMA FLOOD HAZARD ZONES AND SHELLFISH SUITABILITY LAYERS ARE SCALED FROM ONLINE AVAILABLE MASSGIS DATA LAYERS.
6. LOCATION OR PRESENCE OF UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. VERIFY LOCATIONS, DEPTHS, AND OVERHEAD CLEARANCE OF ALL EXISTING UTILITIES AND NOTIFY THE APPROPRIATE UTILITY COMPANY AND AUTHORITY TO ALLOW BARRING OF THEIR UTILITIES.
7. HISTORIC LOW WATER LINE EXTRACTED FROM SURVEY COAST PLAN ENTITLED "MAP OF CAPE ANN INCLUDING GLOUCESTER HARBOR AND VICINITY" REGISTER NO. T-397, DATED 1951.

LEGEND

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- FEMA FLOOD ZONES
- SHELLFISH SUITABILITY ZONE
- HISTORIC LOW WATER
- EXISTING CATCH BASIN
- DRAIN HOLE
- MAN HOLE
- EXISTING UTILITY POLE
- EXISTING WATER GATE
- APPROXIMATE EXISTING TREE

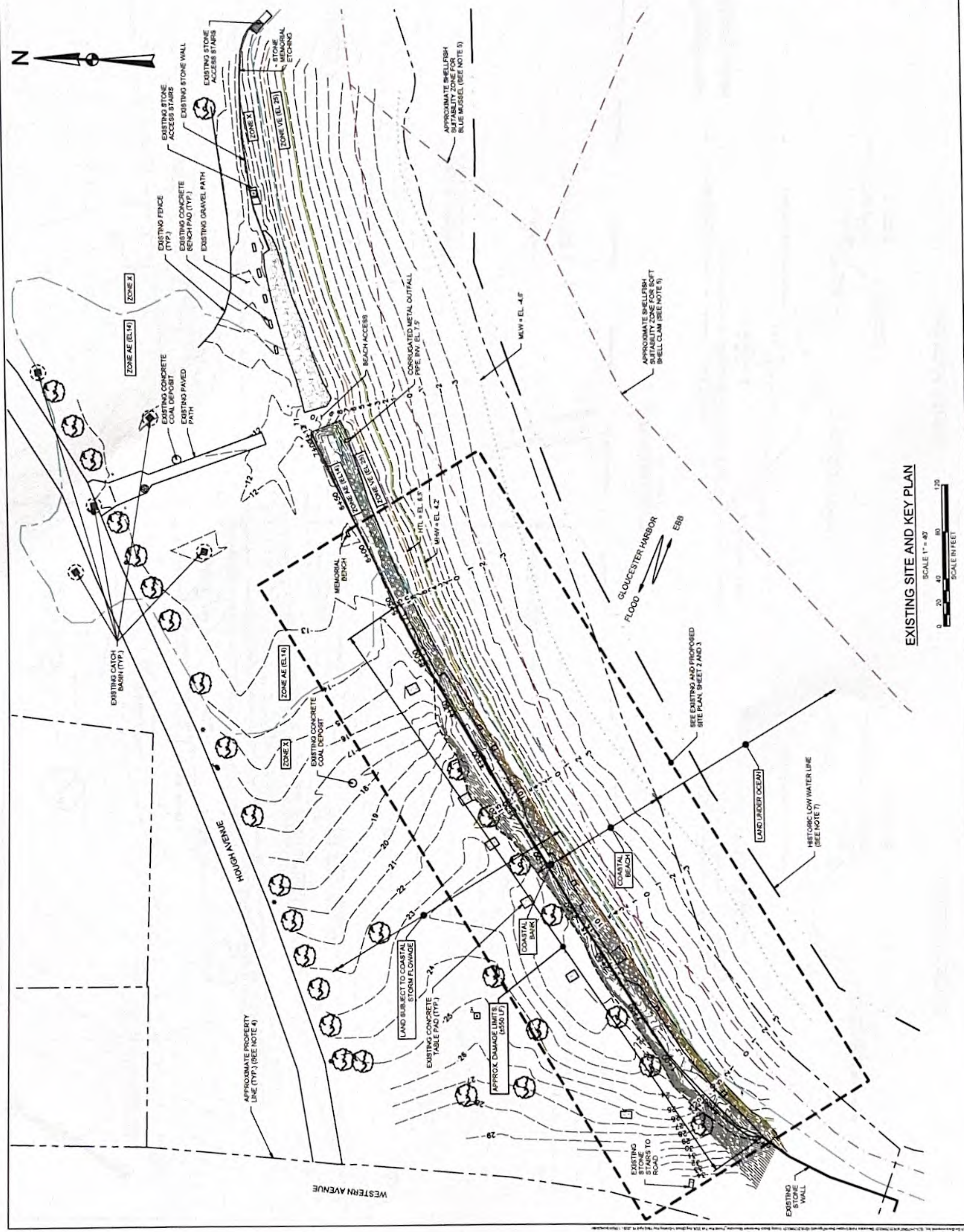


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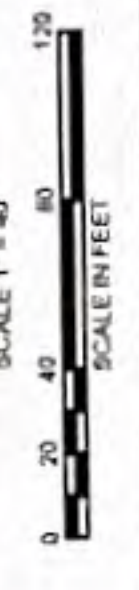
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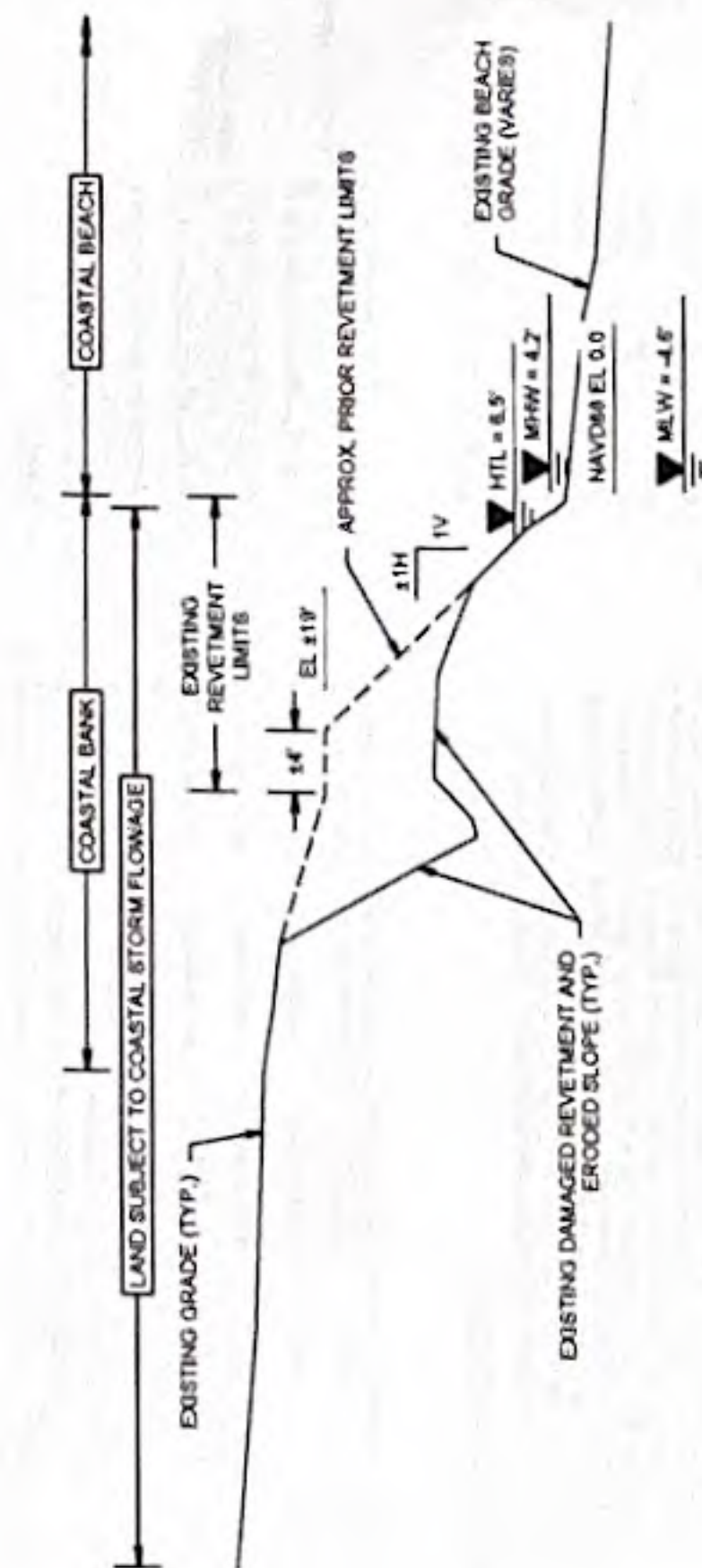
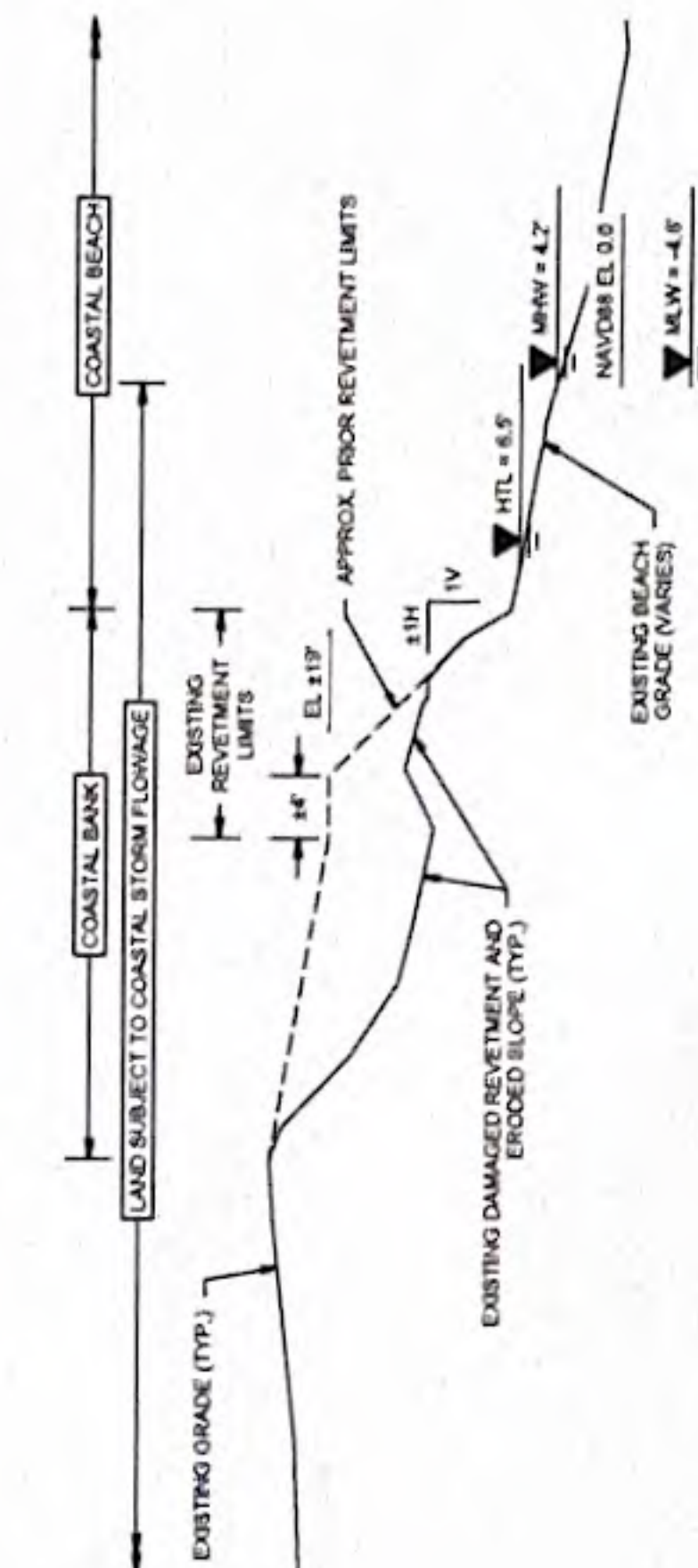
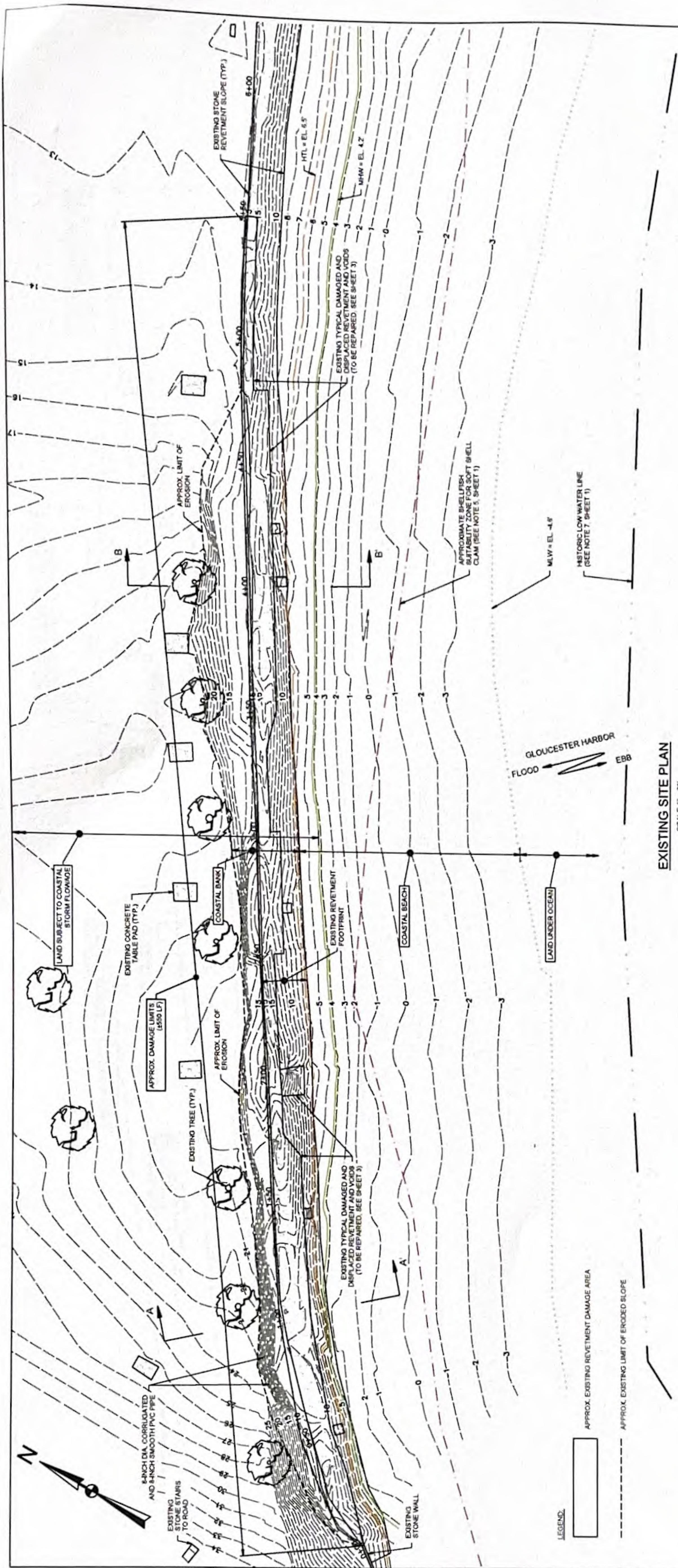
EXISTING SITE AND KEY PLAN

PREPARED BY	GZA GeoEnvironmental, Inc.	ENGINEERED FOR	CITY OF GLOUCESTER
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DESIGNED BY	DAS	DESIGNED BY	DAS
DRAWN BY	UT	DRAWN BY	UT
DATE	APRIL 2023	DATE	APRIL 2023
SCALE	AS SHOWN	SCALE	AS SHOWN
REVISION	5	REVISION	5
SHEET NO.	1 OF 1	SHEET NO.	1 OF 1



EXISTING SITE AND KEY PLAN



[illegible]

PERMITTING ONLY
NOT FOR CONSTRUCTION

1. TEMPORARY CONSTRUCTION EQUIPMENT ACCESS WITHIN THE ZONE LIMITED TO TIMES DURING FAVORABLE TIDES TO REDUCE POTENTIAL IMPACTS.
2. ALL WORK AREAS AND TEMPORARY CONSTRUCTION STAGING AND ACCESS AREAS TO BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.

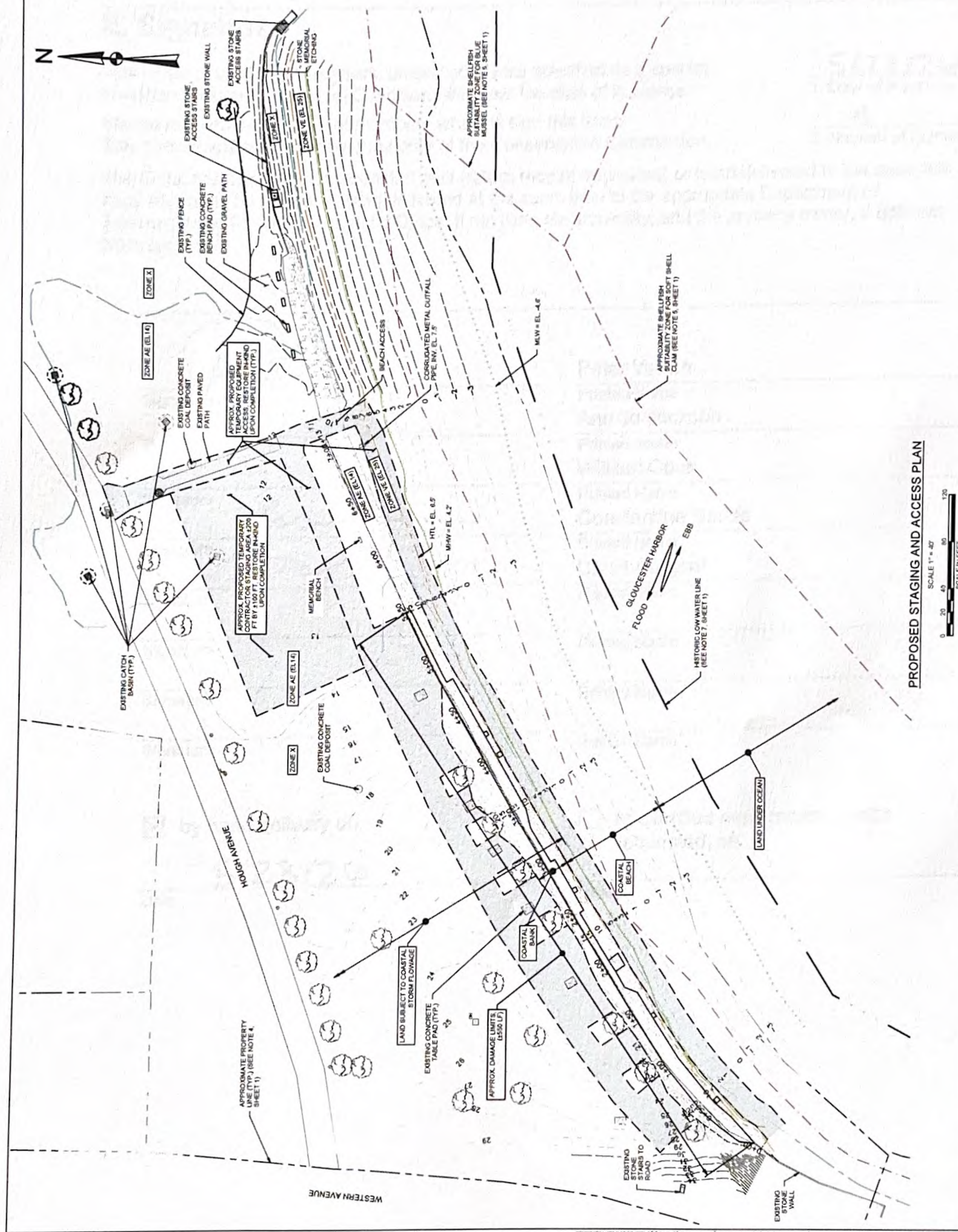
PERMITTING ONLY
NOT FOR CONSTRUCTION

5.	PROPOSED FULL ORAL INTERVIEW FOR DEB REVIEW	DA3	6-18-2028
4.	ORAL INTERVIEW FOR DEB REVIEW	DA3	FEB. 2028
3.	SUBJECT OF INITIAL APPLICATION	DA3	1-30-2028
2.	MEMO ADVISORY COUNCIL	DA3	9-6-2028
1.	MANUSCRIPT COMPLETE IN DA3 - HISTORICAL LAW CENTER FILE	DA3	5-22-2028
	DATE OF LAST REVIEW: 6-18-2028		

[illegible]

PROPOSED STAGING AND ACCESS PLAN

 GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED BY: PREPARED FOR: CITY OF GLOUCESTER 28 POPULAR STREET GLOUCESTER, MA	
	PROJECT NO. 18.0175663.01	DRAWING 5
DESIGNED BY: DAS CHECKED BY: ASH DATE: APRIL, 2018	REVIEWED BY: DAS SCALE: AS SHOWN REVISION NO.: 5	SHEET NO.: 1 OF 4





Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 5 – Order of Conditions

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

Provided by MassDEP:

028- 3100

MassDEP File #

2019434

eDEP Transaction #

Gloucester

City/Town

E. Signatures

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

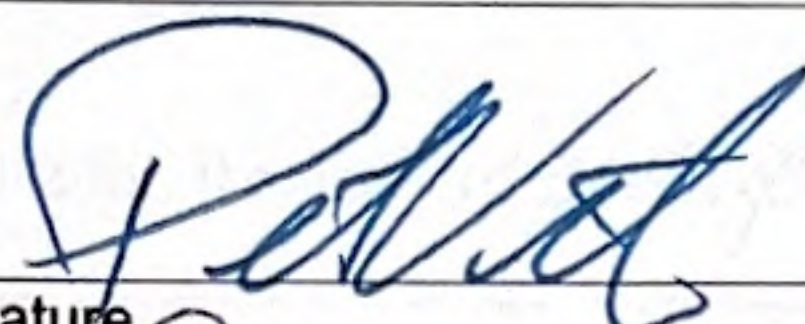
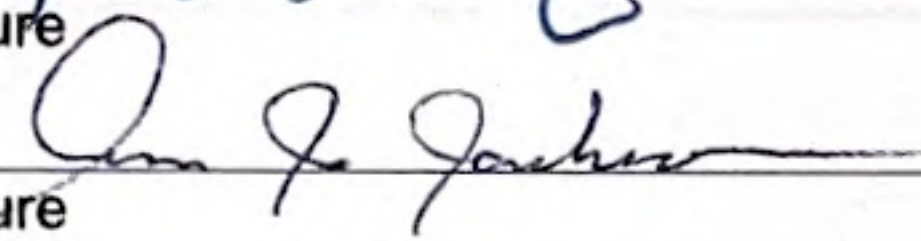
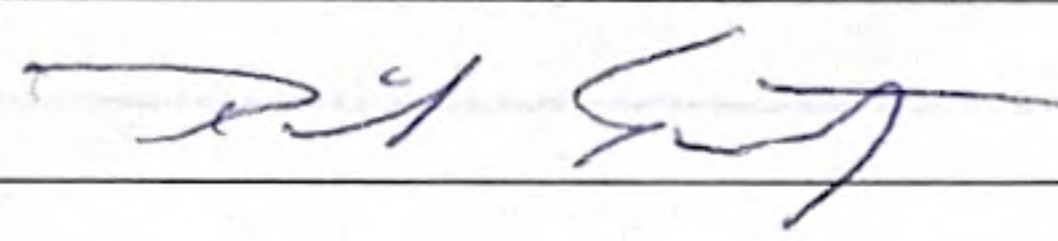
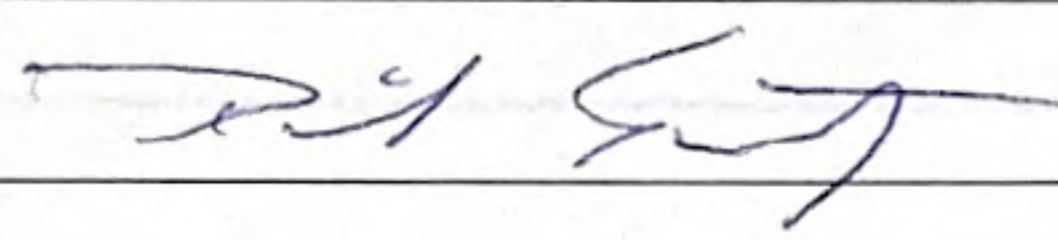
Please indicate the number of members who will sign this form.

This Order must be signed by a majority of the Conservation Commission.

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

5/28/26
1. Date of Issuance

4
2. Number of Signers

Signature 	Peter Vetere
Signature 	Ann Jo Jackson
Signature 	William Cook
Signature 	Constantine Iliades
Signature 	David Sargent
Signature _____	_____
Signature _____	_____
Signature _____	_____

☒ by hand delivery on

5/28/26
Date

☐ by certified mail, return receipt requested, on

Date



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 5 - Order of Conditions

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

Provided by MassDEP:
MassDEP File #:028-3100
eDEP Transaction #:2019434
City/Town:GLOUCESTER

Commission listed below.

GLOUCESTER

Conservation Commission

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

To:

GLOUCESTER

Conservation Commission

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

24 HOUGH AVENUE

Project Location

028-3100

MassDEP File Number

Has been recorded at the Registry of Deeds of:

County

Book

Page

for:

Property Owner MICHAEL HALE

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

Book

Page

In accordance with the Order of Conditions issued on:

Date

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

Instrument Number

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

Document Number

Signature of Applicant

Rev. 4/1/2010



USACE PRE-CONSTRUCTION NOTIFICATION (Pending)

ATTACHMENT C – PROJECT DRAWINGS

CRESSY BEACH REVETMENT - STORM DAMAGE REPAIR PROJECT

CONTRACT NO. 27052

24 HOUGH AVENUE GLOUCESTER, MASSACHUSETTS

PREPARED FOR

CITY OF GLOUCESTER
28 POPLAR STREET
GLOUCESTER, MA 01930

PREPARED BY



GZA GEOENVIRONMENTAL, INC.
144 ELM STREET
AMESBURY, MA 01913

INDEX OF DRAWINGS:

SHEET 1	COVER SHEET AND NOTES
SHEET 2	EXISTING SITE AND KEY PLAN
SHEET 3	EXISTING SITE PLAN
SHEET 4	EXISTING SECTIONS
SHEET 5	PROPOSED SITE PLAN
SHEET 6	PROPOSED SECTIONS
SHEET 7	PROPOSED DETAILS
SHEET 8	PROPOSED STAGING AND ACCESS PLAN



PROJECT LOCUS MAP

SOURCE : USGS TOPOGRAPHIC QUADRANGLES

NOT TO SCALE



AERIAL IMAGE

SOURCE: BING MAPS

NOT TO SCALE

MATERIAL NOTES:

MATERIAL AND PRODUCT REQUIREMENTS, WHERE REFERENCED AS MASSDOT, THE REQUIREMENT REFERS TO THE COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, 2025, OR LATEST EDITION.

CONCRETE:	4,000 PSI 28-DAY COMPRESSIVE STRENGTH ¾ INCH AGGREGATE MIX ENTRAINED AIR CONTENT 5.0 TO 8.0% MASSDOT SECTIONS 901 AND M4 COLD WEATHER OR HOT WEATHER REQUIREMENTS AS APPLICABLE AND AS DETERMINED BY ENGINEER.
PORTLAND CEMENT:	ASTM C150, TYPE II OR ASTM C595, TYPE II
REVETMENT STONE	ARMOR STONE 2-4 TON BEDDING STONE 12" DIA.
GEOTEXTILE FILTER FABRIC	NON-BIODEGRADABLE WOVEN GEOTEXTILE FABRIC RESISTANT TO NATURALLY ENCOUNTERED CHEMICALS, ALKALIS, AND ACIDS (MIRAFI FW404, OR APPROVED EQUIVALENT)
VEGETATIVE SUPPORT FILL	50/50 MIX OF LOAM AND GRAVEL BORROW
SANDY SILT FILL	SIEVE NO. SIZE (MM) PERCENT FINER 6" 152.4 100 2" 50.8 95-100 ¾" 19.0 85-100 #10 2.00 70-100 #40 0.42 50-95 #100 0.15 30-80 #200 0.07 4-40

GENERAL NOTES:

- VERTICAL DATUM: ELEVATIONS ARE IN FEET AND REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88); MLW=-4.6, NAVD88=0.0, MHW=4.2, HTL=6.5, TIDAL DATUM RELATIONSHIP AND CONVERSION REFERENCED TO NOAA TIDAL STATION ID 8441841, GLOUCESTER HARBOR, MA.
- HORIZONTAL DATUM: MASSACHUSETTS STATE PLANE MAINLAND, NAD83, US SURVEY FEET.
- LIMITED TOPOGRAPHIC SURVEY PERFORMED BY GZA GEOENVIRONMENTAL, INC., ON SEPTEMBER 14, 2022, SUPPLEMENTAL TOPOGRAPHIC SURVEY PERFORMED ON JANUARY 8, 2025, AND REPRESENTS THE CONDITIONS AT THE TIME OF THE SURVEY.
- PROPERTY LINES ARE APPROXIMATE AND WERE DOWNLOADED FROM ONLINE AVAILABLE MASSGIS DATA LAYERS. PROPERTY RECORDED AT THE REGISTRY OF DEEDS BOOK 1543, PAGE 141.
- FEMA FLOOD HAZARD ZONES, AND SHELLFISH SUITABILITY ZONES SCALED FROM ONLINE AVAILABLE MASSGIS DATA LAYERS.
- HISTORIC LOW WATER LINE EXTRACTED FROM SURVEY COAST PLAN ENTITLED "MAP OF CAPE ANN INCLUDING GLOUCESTER HARBOR AND VICINITY", REGISTER NO. T-397, DATED 1851.
- THE OWNER AND ENGINEER MAKE NO WARRANTY REGARDING THE ACCURACY OF INFORMATION PRESENTED IN THESE DRAWINGS REGARDING EXISTING CONDITIONS.
- THE CONTRACTOR SHALL PROVIDE ALL SUPERVISION, FACILITIES, LABOR, MATERIALS, TOOLS, EQUIPMENT, APPLIANCES, TRANSPORTATION, SURVEY, AND RELATED WORK NECESSARY TO COMPLETE THE WORK SPECIFIED ON THESE CONTRACT DRAWINGS.
- ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- THE CONTRACTOR SHALL MAINTAIN ADEQUATE SURVEY CONTROL, AT ALL TIMES, TO ESTABLISH AND MAINTAIN ALL LINES AND ELEVATIONS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE CONSTRUCTION PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING OR TEMPORARY BRACING, SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AFTER COMPLETION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE TO ERECT, MAINTAIN AND REMOVE TEMPORARY MATERIALS AND EQUIPMENT. PROPOSED STAGING AREAS SHALL BE COORDINATED WITH THE OWNER PRIOR TO COMMENCING WORK.
- THE CONTRACTOR IS ADVISED THAT THE SPECIFICATIONS FORM A PART OF THE CONTRACT DOCUMENTS AND ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS. THE CONTRACTOR SHALL KEEP A COPY OF THE DRAWINGS AND SPECIFICATIONS, INCLUDING ENVIRONMENTAL PERMITS, ON-SITE AT ALL TIMES DURING THE DURATION OF THE WORK.
- LOCATION OR PRESENCE OF UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. CONTRACTOR MUST NOTIFY DIGSAFE 72 HOURS PRIOR TO COMMENCING WORK. VERIFY LOCATIONS, DEPTHS AND OVERHEAD CLEARANCE OF ALL EXISTING UTILITIES AND NOTIFY THE APPROPRIATE UTILITY COMPANY AND AUTHORITY TO ALLOW MARKING OF THEIR LINES.

- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO AVOID DAMAGE TO THE EXISTING STRUCTURES, WALLS, UTILITIES, ADJACENT STRUCTURES, ROADWAY, PARKING AREAS, AND OTHER MISCELLANEOUS SITE FEATURES TO REMAIN IN PLACE DURING CONSTRUCTION AND/OR AFTER CONSTRUCTION IS COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO SAID FEATURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO STRUCTURES, UTILITIES, AND THE SITE OR INJURIES TO THE PUBLIC RESULTING FROM THE CONTRACTOR'S WORK OR WORK OF THE CONTRACTOR'S SUBCONTRACTORS.
- THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN TEMPORARY CONSTRUCTION FENCES AND BARRIERS AROUND THE CONTRACTOR WORK AREA.
- ALL MATERIAL REMOVED AND NOT SPECIFIED TO BE SALVAGED OR REUSED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE LEGALLY DISPOSED OF.
- APPROPRIATE EROSION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE BEGINNING OF ANY PHASE OF CONSTRUCTION. EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED AFTER EACH STORM EVENT AND REPAIRED OR REPLACED AS NECESSARY. ANY ACCUMULATED SILT ADJACENT TO THE BARRIERS SHALL BE REMOVED.
- THE CONTRACTOR SHALL PERFORM WORK AS PER THE ORDER OF CONDITIONS ISSUED BY THE CONSERVATION COMMISSION. A COPY OF THE ORDER OF CONDITIONS SHALL BE ON-SITE AT ALL TIMES DURING THE WORK. ANY CHANGES FROM THE ORDER OF CONDITIONS AND/OR CONSTRUCTION PLANS SHALL BE APPROVED BY THE OWNER AND ENGINEER.
- THE CONTRACTOR SHALL PROVIDE AND POST DEP WETLAND PROJECT SIGNS IN CONFORMANCE WITH THE ORDER OF CONDITIONS FOR THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ENVIRONMENTAL PROTECTION AND TEMPORARY CONSTRUCTION DEBRIS CONTAINMENT EQUIPMENT AND KEEPING THE SURROUNDING WATERS CLEAN AND FREE OF ALL WASTE MATERIAL.
- THE CONTRACTOR SHALL MONITOR THE PREDICTED TIDES FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL BE AWARE OF THE ANTICIPATED WORK SCHEDULE AS IT RELATES TO TIDAL SCHEDULE.
- THE CONTRACTOR SHALL MONITOR THE WEATHER AND SHALL PROPERLY SECURE OR REMOVE EQUIPMENT FROM AREAS THAT MAY BECOME INUNDATED DURING STORM CONDITIONS AND PERIODS OF ASTRONOMICAL HIGH TIDES.
- CONSTRUCTION AREAS TO BE GENERALLY ACCESSED FROM THE LANDSIDE PARK AREA AS WELL AS TEMPORARY BEACH ACCESS FRONTING THE REVETMENT STRUCTURE. RESTORE DISTURBED AREAS TO EXISTING PRE-CONSTRUCTION CONDITIONS.
- CONSTRUCTION ACCESS TO BE FROM HOUGH AVENUE AND STAGING/STORAGE WITHIN CITY PROPERTY OF STAGE FORT PARK. NO TRACKED EQUIPMENT ALLOWED ON PAVED ROADWAYS. RESTORE DISTURBED AREAS TO EXISTING PRE-CONSTRUCTION CONDITIONS. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACCESS, STAGING, LAY DOWN, AND STORAGE AREAS WITH THE OWNER.

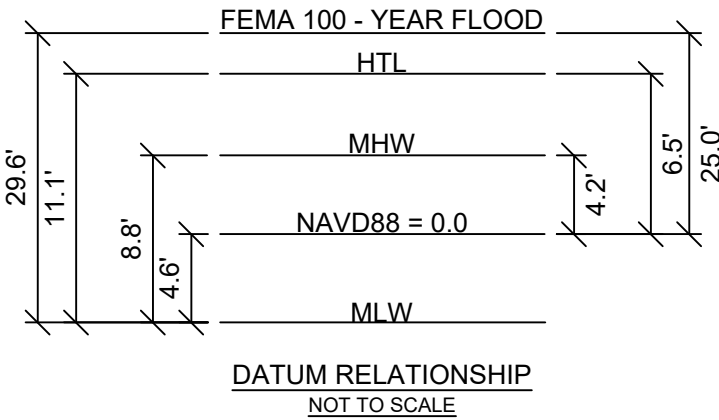
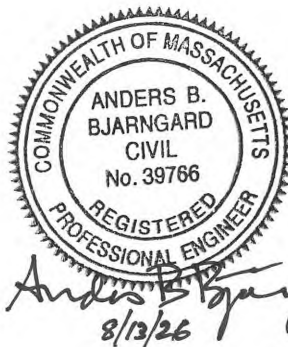
- STORAGE, FUELING AND LUBRICATION OF EQUIPMENT AND MOTOR VEHICLES SHALL BE CONDUCTED IN A MANNER THAT AFFORDS THE MAXIMUM PROTECTION AGAINST SPILL AND EVAPORATION. FUEL, LUBRICANTS AND OIL SHALL BE MANAGED AND STORED IN ACCORDANCE WITH FEDERAL, STATE, REGIONAL AND LOCAL LAWS AND REGULATIONS. THERE SHALL BE NO STORAGE OF FUEL ON THE PROJECT SITE. FUEL MUST BE BROUGHT TO THE PROJECT SITE AS NEEDED. EQUIPMENT OPERATION, ACTIVITIES, OR PROCESSES PERFORMED BY THE CONTRACTOR SHALL BE IN ACCORDANCE WITH FEDERAL AND STATE AIR EMISSION AND PERFORMANCE LAWS AND STANDARDS.

- FUEL SPILL CONTAINMENT SYSTEMS SHALL BE ON-SITE PRIOR TO CONSTRUCTION.

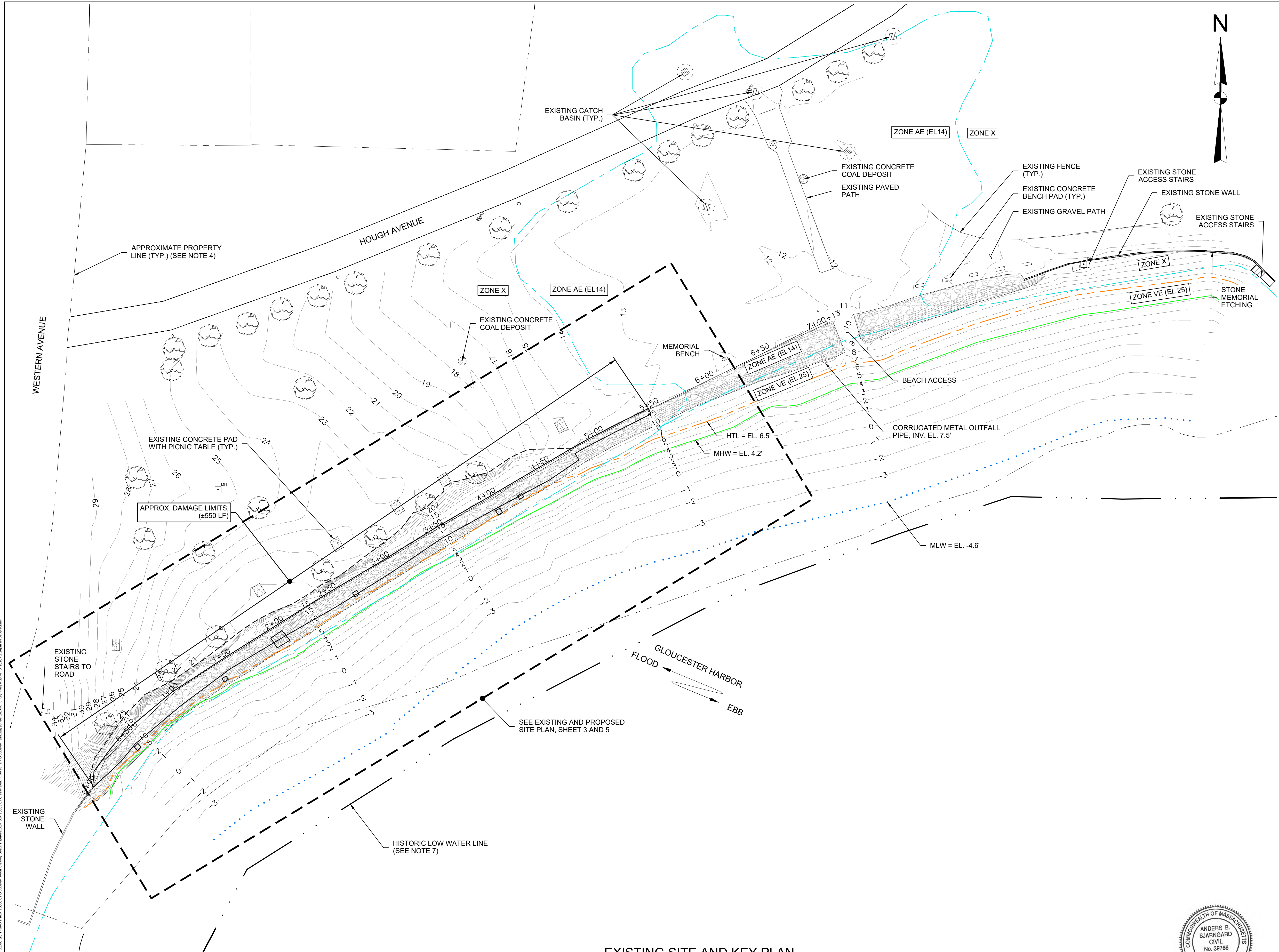
- ALL WORK SHALL BE PERFORMED IN A SAFE MANNER, IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS, AND SO AS TO PROTECT THE PUBLIC.

PREPARATION OF WORK

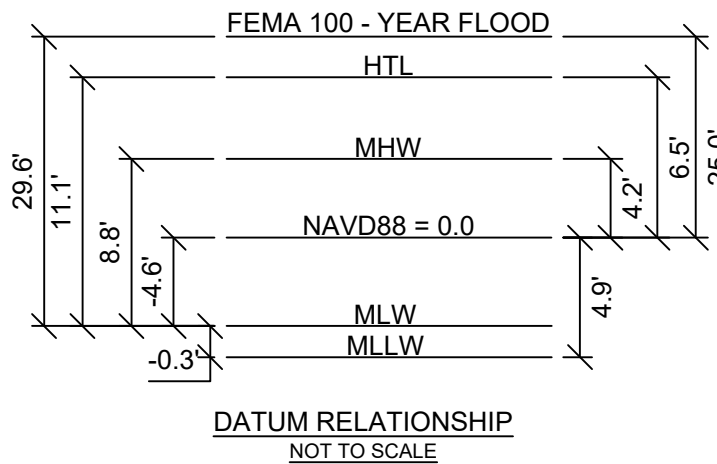
- PRIOR TO THE COMMENCEMENT OF WORK THERE MUST BE A PRE-CONSTRUCTION MEETING ON SITE BETWEEN THE ENGINEER, THE CONTRACTOR, AND THE CONSERVATION AGENT OR A MEMBER OF THE CONSERVATION COMMISSION.
- THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A CONSTRUCTION PROJECT SCHEDULE WITHIN TEN (10) DAYS BEFORE THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE DELIVERY OF MATERIALS UNDER THIS CONTRACT WITH THE OWNER AND ENGINEER.
- THE CONTRACTOR SHALL STAGE THE WORK SUCH THAT AREAS OF CONSTRUCTION SHALL REMAIN STABLE AT THE CLOSE OF EACH CONSTRUCTION DAY. CONTRACTOR STAGING AREA SHALL BE LIMITED TO THE LOCATIONS AS INDICATED ON THE CONTRACT DRAWINGS AND AS APPROVED BY THE OWNER.
- SITE USAGE BY THE CONTRACTOR SHALL BE LIMITED TO THAT AREA AS NECESSARY TO PERFORM CONSTRUCTION WORK. THE CONTRACTOR SHALL COORDINATE WORK TO MINIMIZE INTERFERENCE WITH THE GENERAL PUBLIC AND SITE ACTIVITIES TO THE APPROVAL OF THE OWNER.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE ORDERING MATERIALS OR STARTING WORK.
- THE CONTRACTOR SHALL RESTORE THE SITE AND ACCESS/STAGING LOCATIONS TO THEIR ORIGINAL PRE-CONSTRUCTION CONDITION TO THE SATISFACTION OF THE ENGINEER AND THE OWNER.
- THE CONTRACTOR SHALL REPAIR, AT ITS OWN EXPENSE, AND DAMAGE CAUSED TO PUBLIC OR PRIVATE PROPERTY; REMOVE FROM THE SITE ALL DEBRIS, EXCESS MATERIALS, TOOLS, AND EQUIPMENT; AND SHALL LEAVE THE SITE IN A NEAT AND ORDERLY CONDITION, TO THE SATISFACTION OF THE ENGINEER AND OWNER.



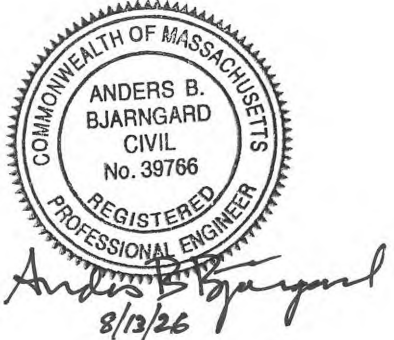
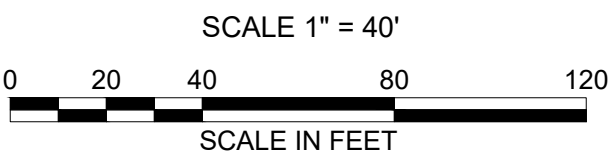
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NO.	ISSUE/DESCRIPTION	BY	DATE
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CRESSY BEACH REVETMENT - STORM DAMAGE REPAIR PROJECT FEMA-4372-DR-MA (PROJECT #67065) 24 HOUGH AVE, GLOUCESTER, MASSACHUSETTS 01930			
COVER SHEET AND NOTES			
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: CITY OF GLOUCESTER 28 POPLAR STREET GLOUCESTER, MA	
PROJ MGR: DAS	DESIGNED BY: DAS	REVIEWED BY: DAS	CHECKED BY: ABB
DATE: AUG 2026	DRAWN BY: LFT	PROJECT NO. 18.0175863.01	REVISION NO. 1
			1 OF 8



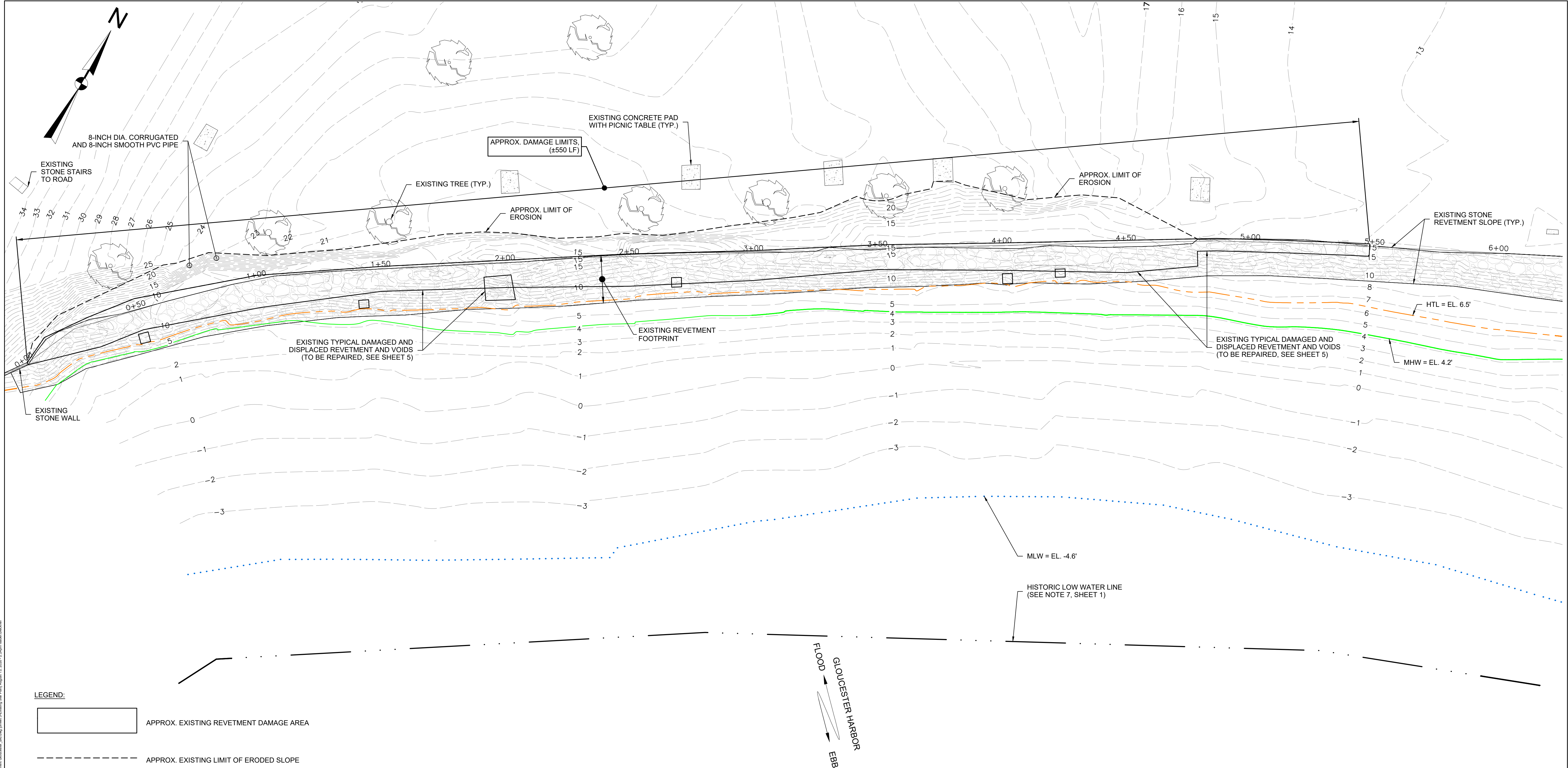
- LEGEND**
- EXISTING CONTOUR MAJOR
 - EXISTING CONTOUR MINOR
 - MEAN LOW WATER [MLW]
 - MEAN HIGH WATER [MHW]
 - HIGH TIDE LINE [HTL]
 - APPROXIMATE PROPERTY LINE
 - FEMA FLOOD ZONES
 - HISTORIC LOW WATER
 - EXISTING CATCH BASIN
 - DRILL HOLE
 - MAG NAIL
 - EXISTING UTILITY POLE
 - EXISTING WATER GATE
 - APPROXIMATE EXISTING TREE



EXISTING SITE AND KEY PLAN

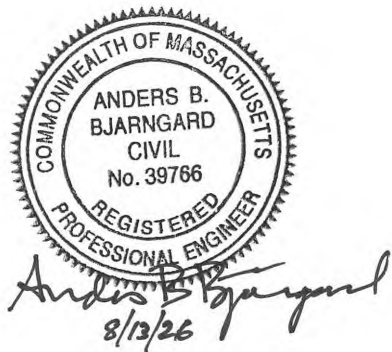
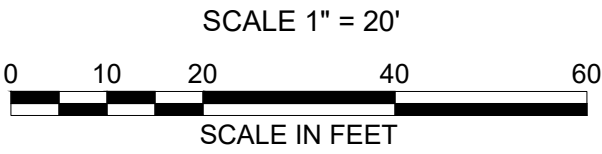


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EXISTING SITE AND KEY PLAN				
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: CITY OF GLOUCESTER 28 POPLAR STREET GLOUCESTER, MA		
PROJ MGR: DAS	DESIGNED BY: DAS	REVIEWED BY: DAS	CHECKED BY: ABB	DRAWING
DATE: AUG 2026	PROJECT NO. 18.0175863.01	DRAWN BY: LFT	SCALE: AS SHOWN	REVISION NO. 2
				SHEET NO. 2 OF 8



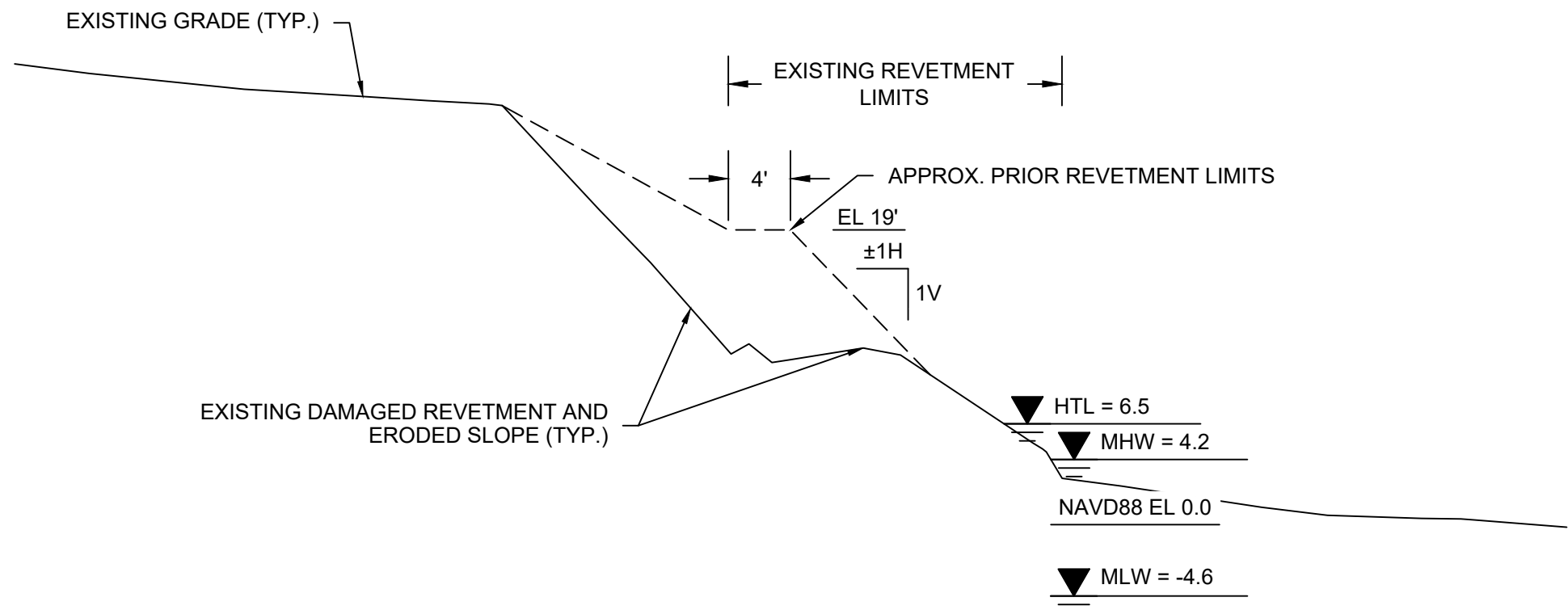
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- APPROX. EXISTING REVETMENT DAMAGE AREA
 - APPROX. EXISTING LIMIT OF ERODED SLOPE

EXISTING SITE PLAN



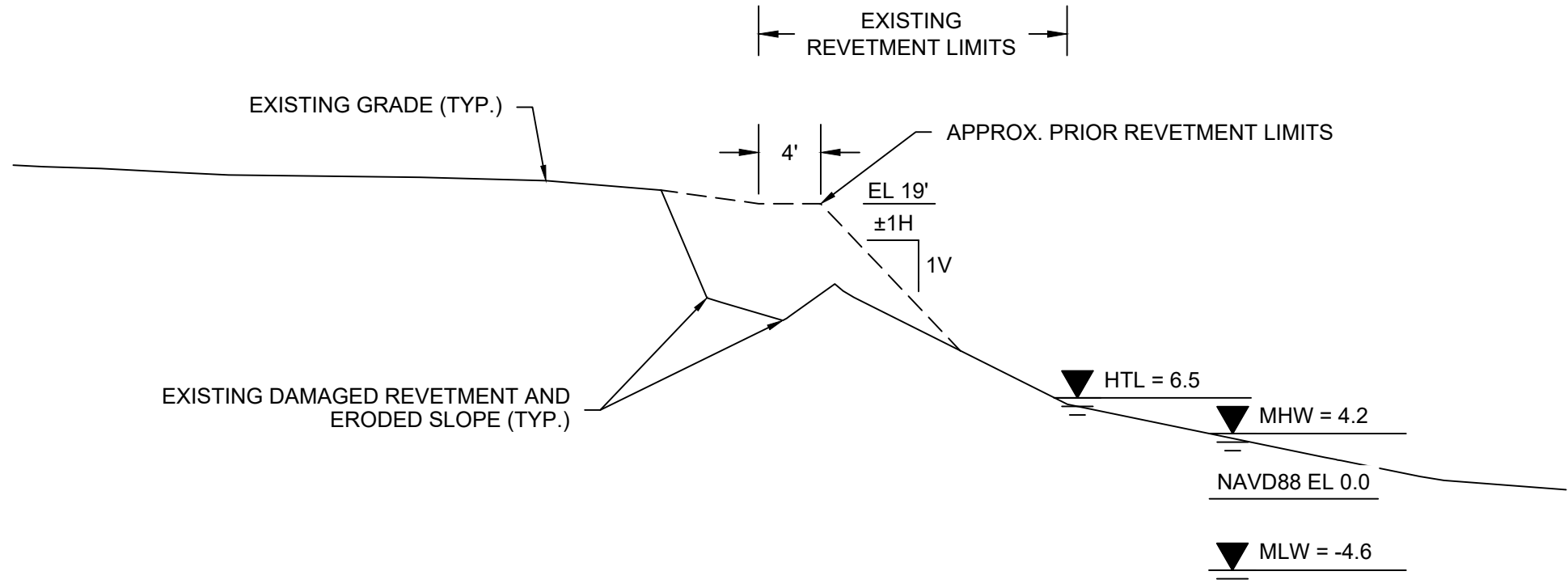
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EXISTING SITE PLAN				
PREPARED BY:  GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com			PREPARED FOR: CITY OF GLOUCESTER 28 POPLAR STREET GLOUCESTER, MA	
PROJ MGR: DAS	REVIEWED BY: DAS	CHECKED BY: ABB	DRAWING	
DESIGNED BY: DAS	DRAWN BY: LFT	SCALE: AS SHOWN	3	
DATE: AUG 2026	PROJECT NO. 18.0175863.01	REVISION NO. 1		
			SHEET NO. 3 OF 8	

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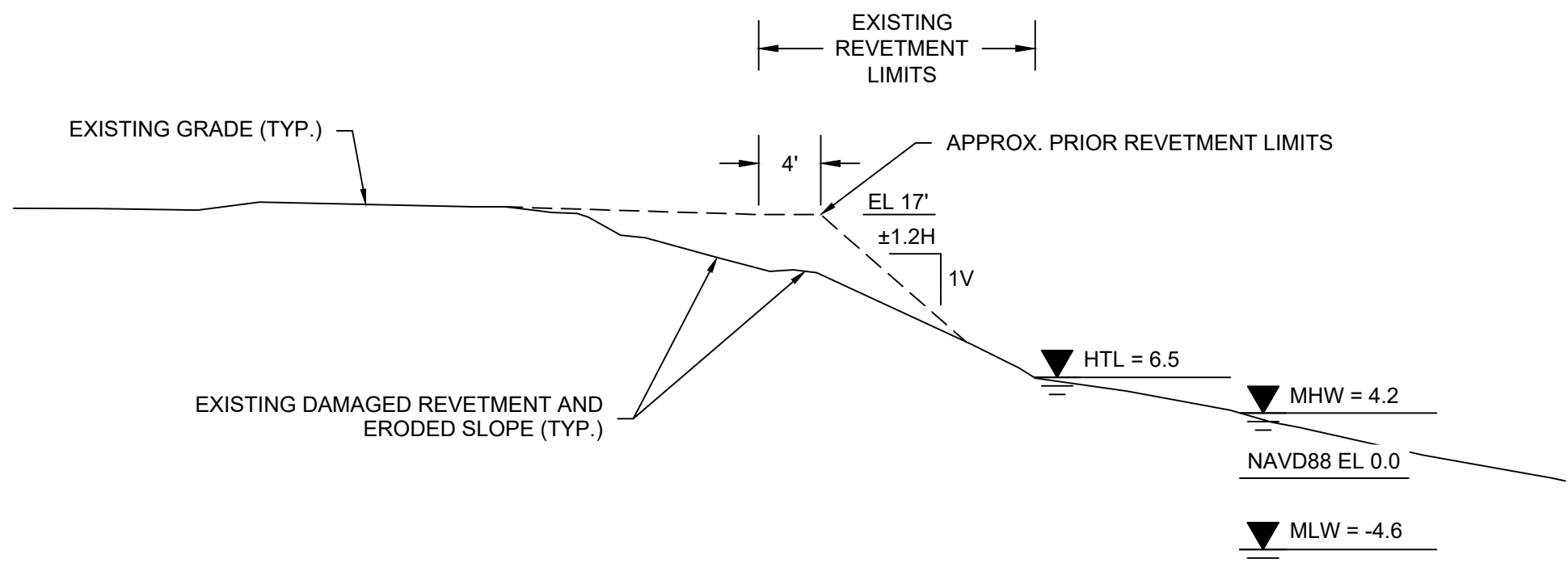
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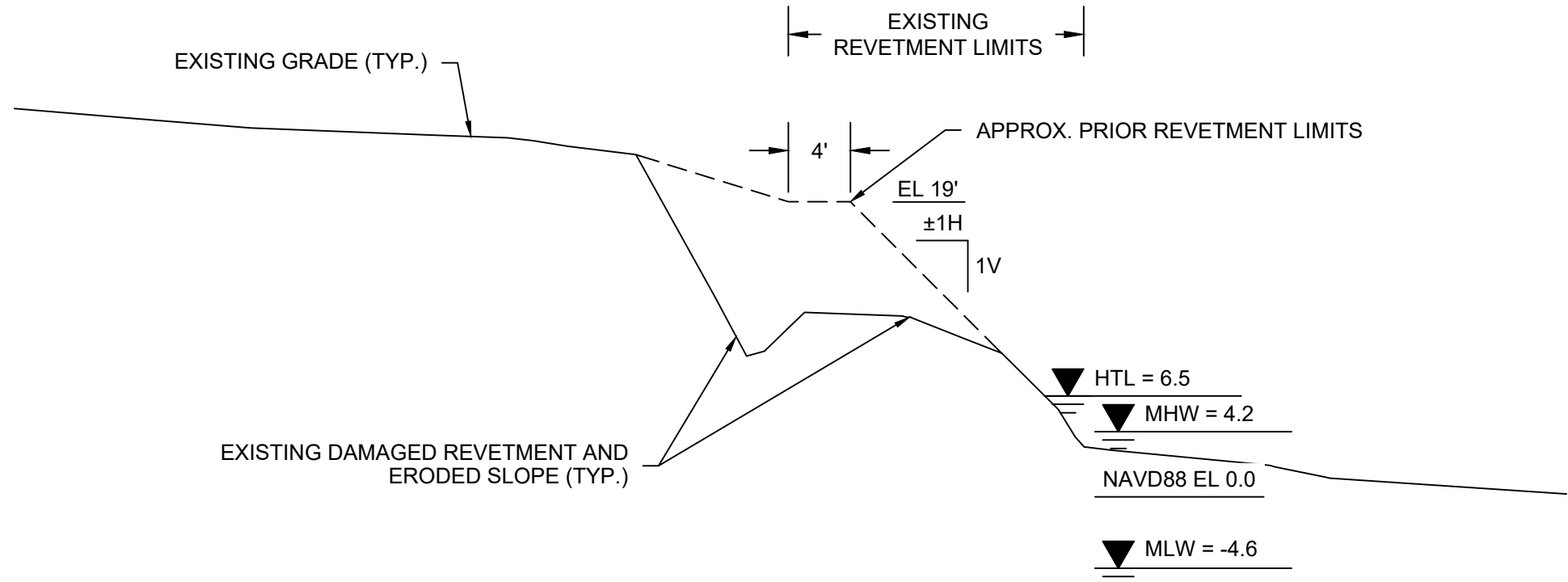
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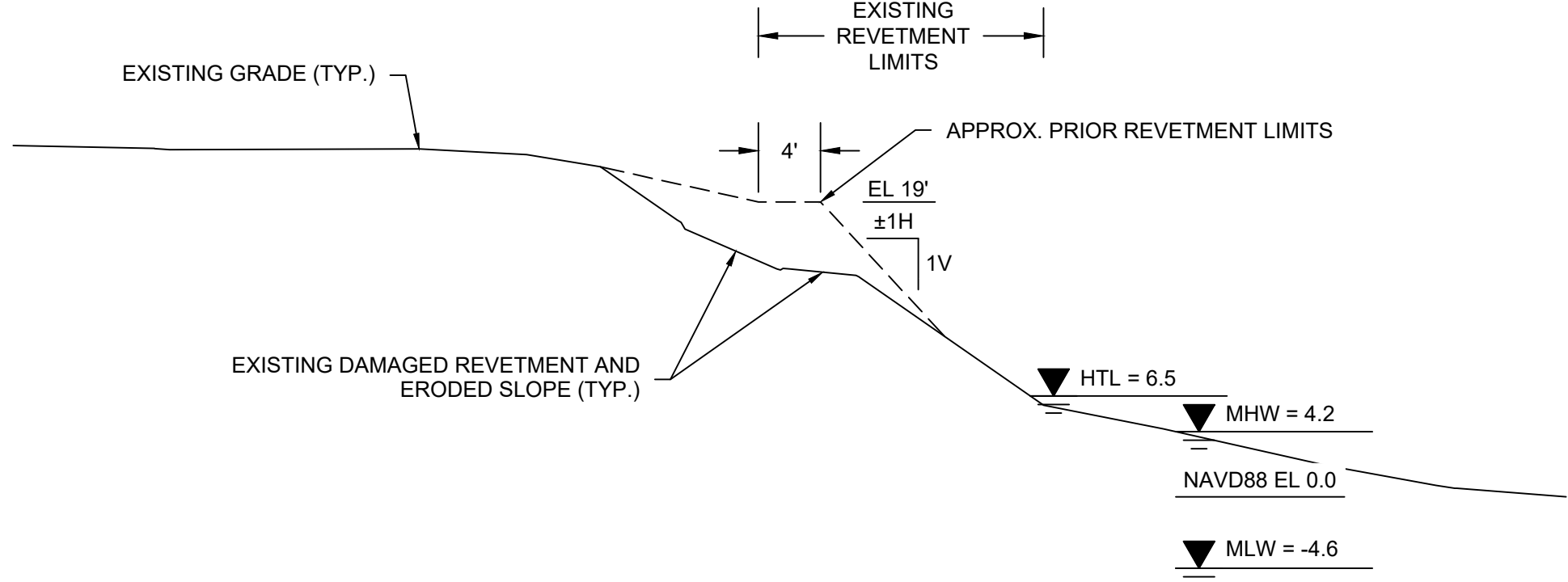
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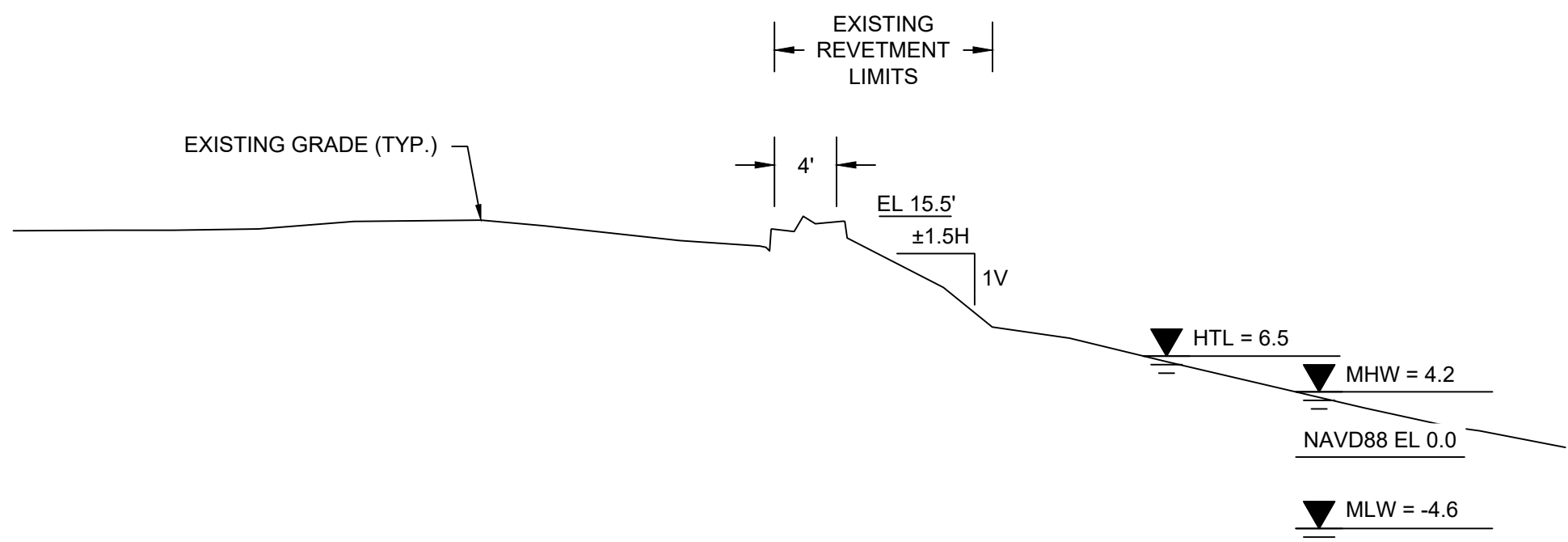
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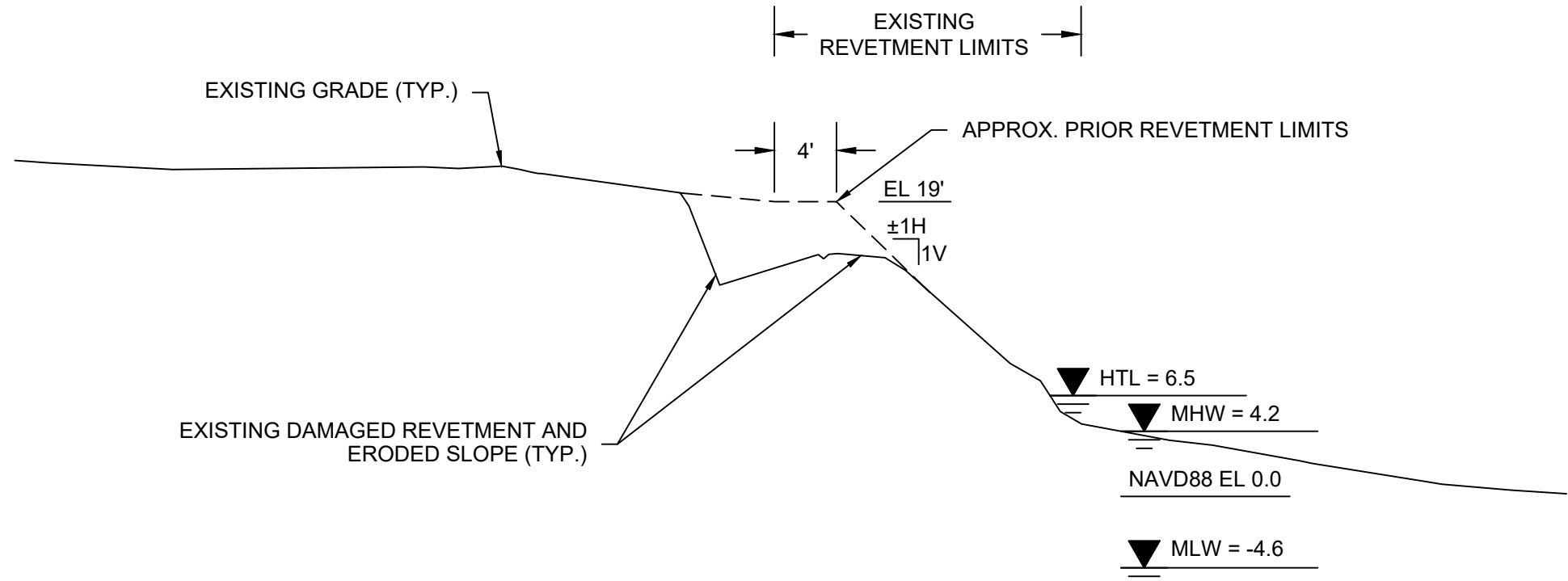
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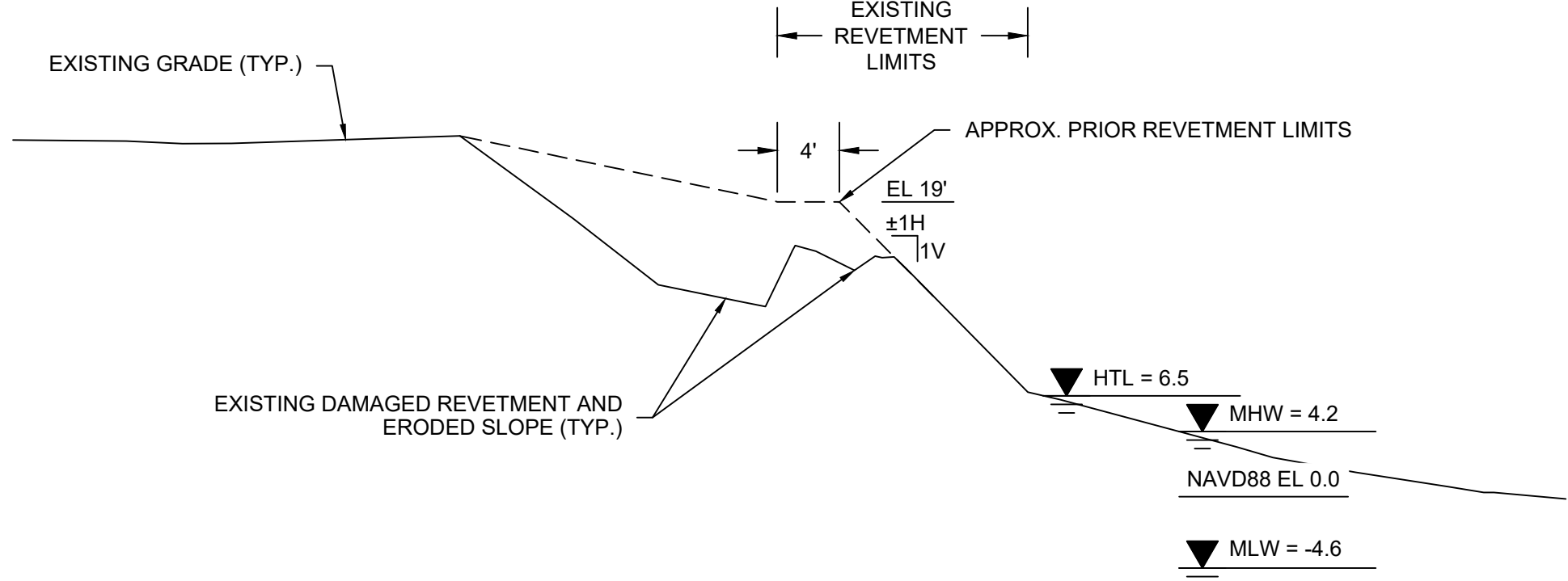
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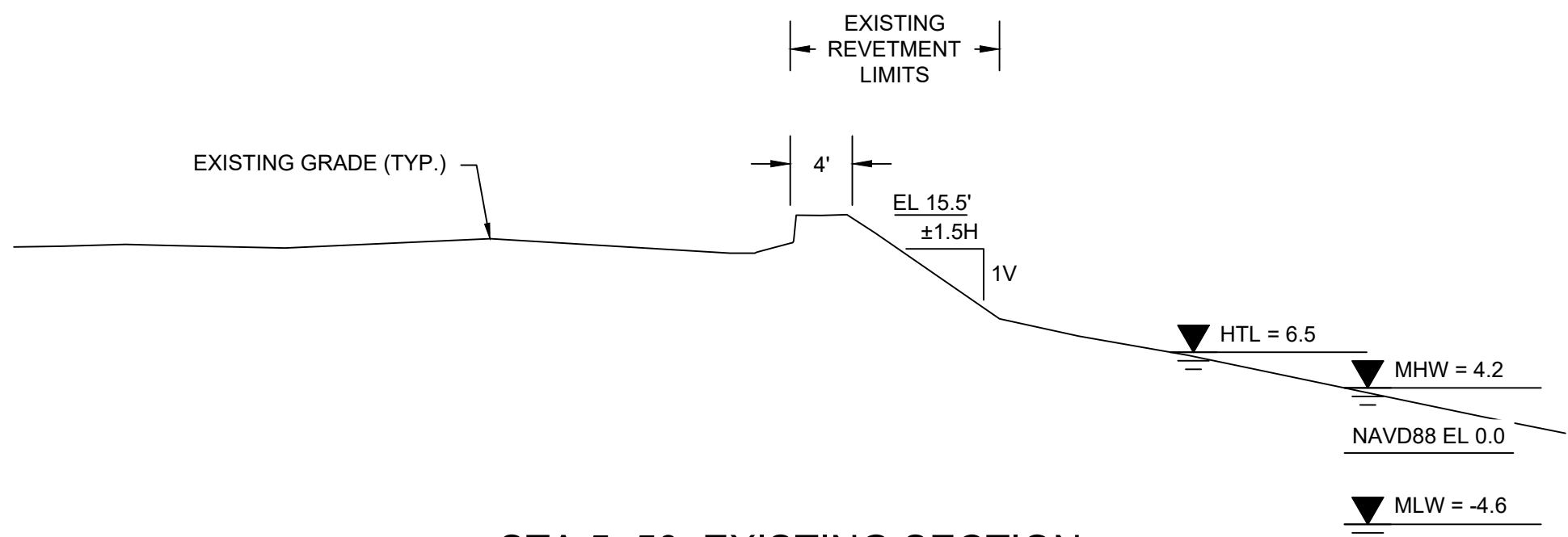
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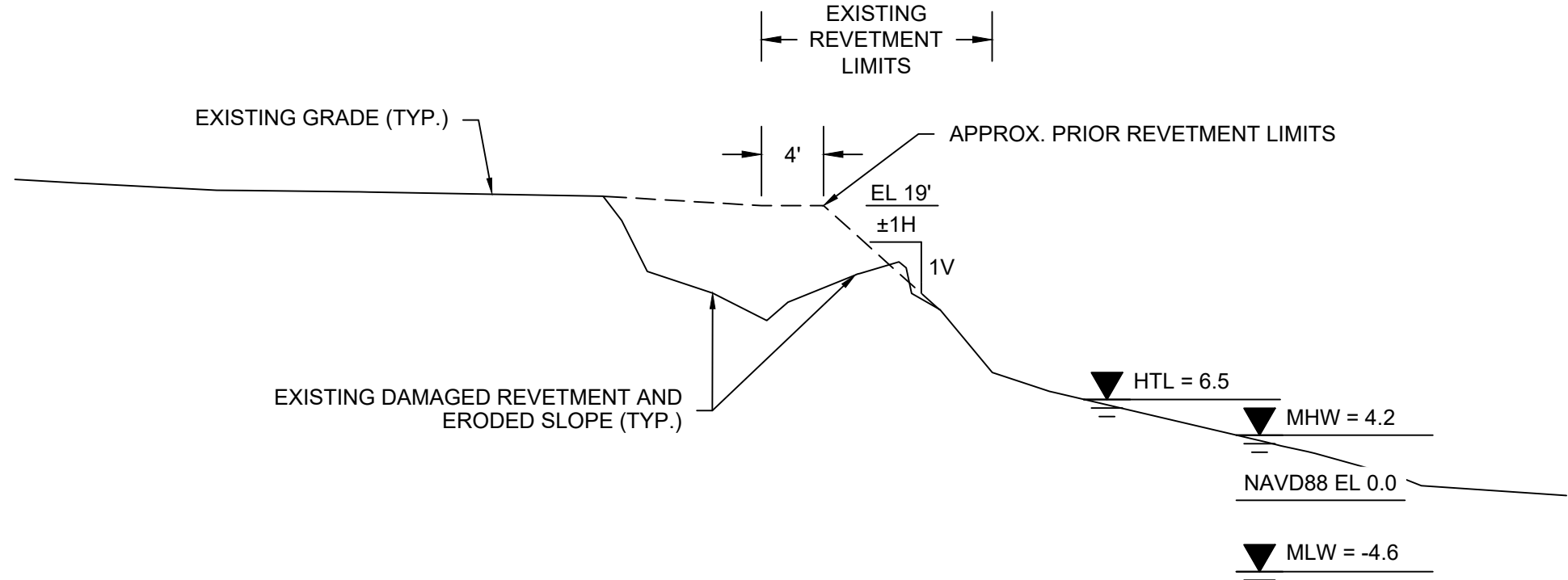
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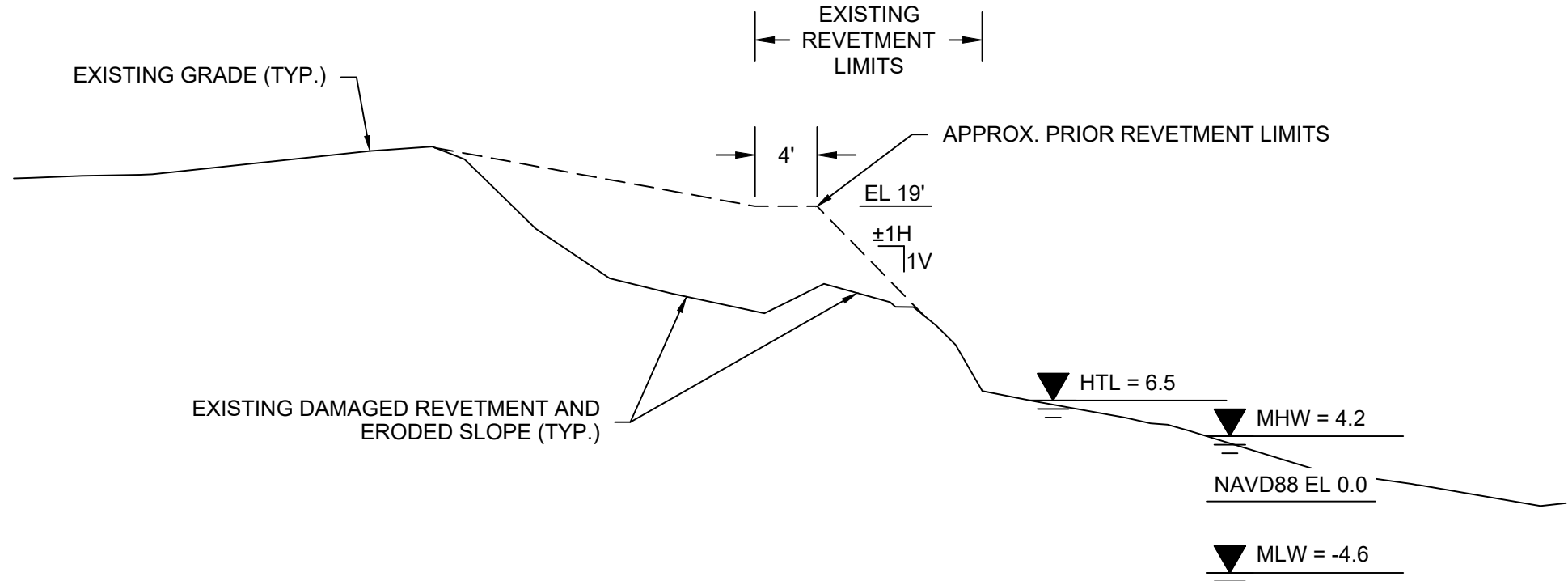
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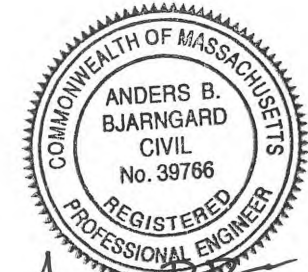
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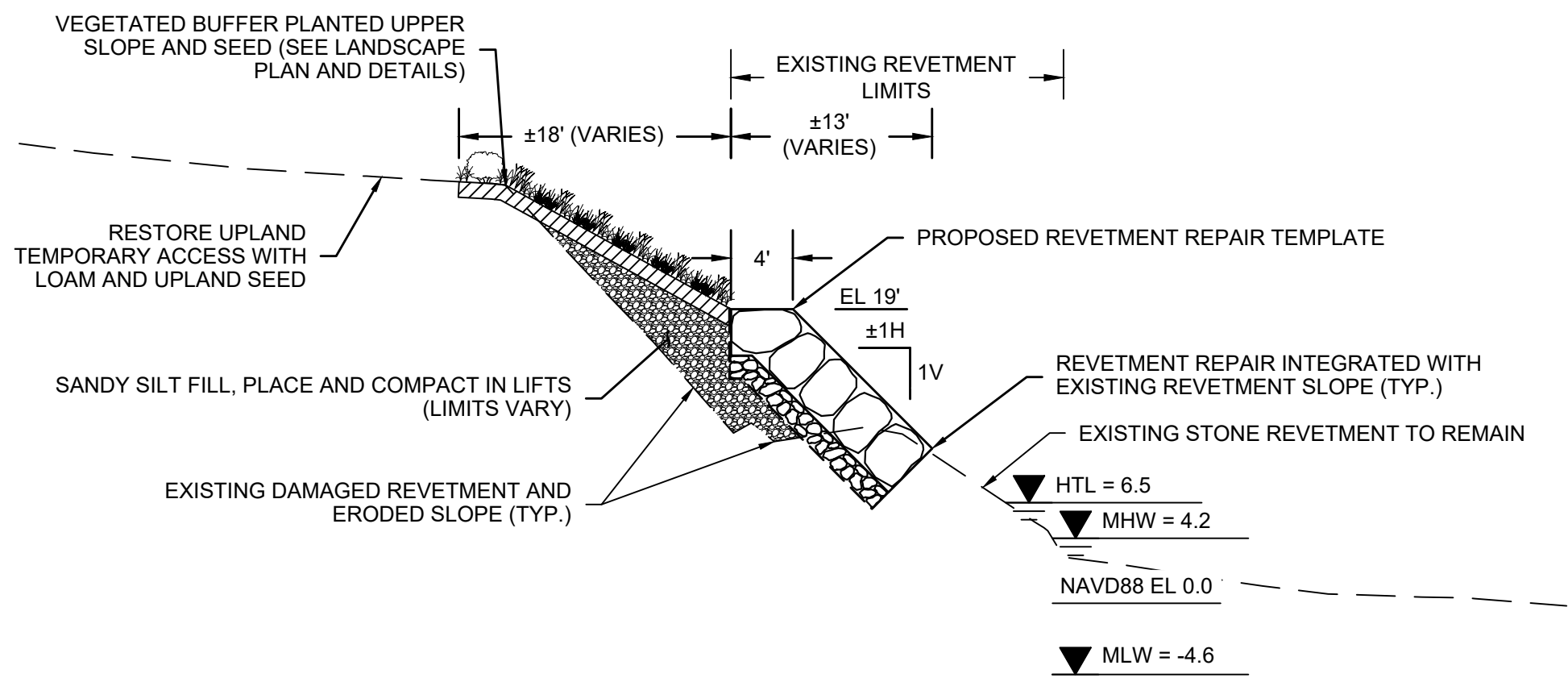
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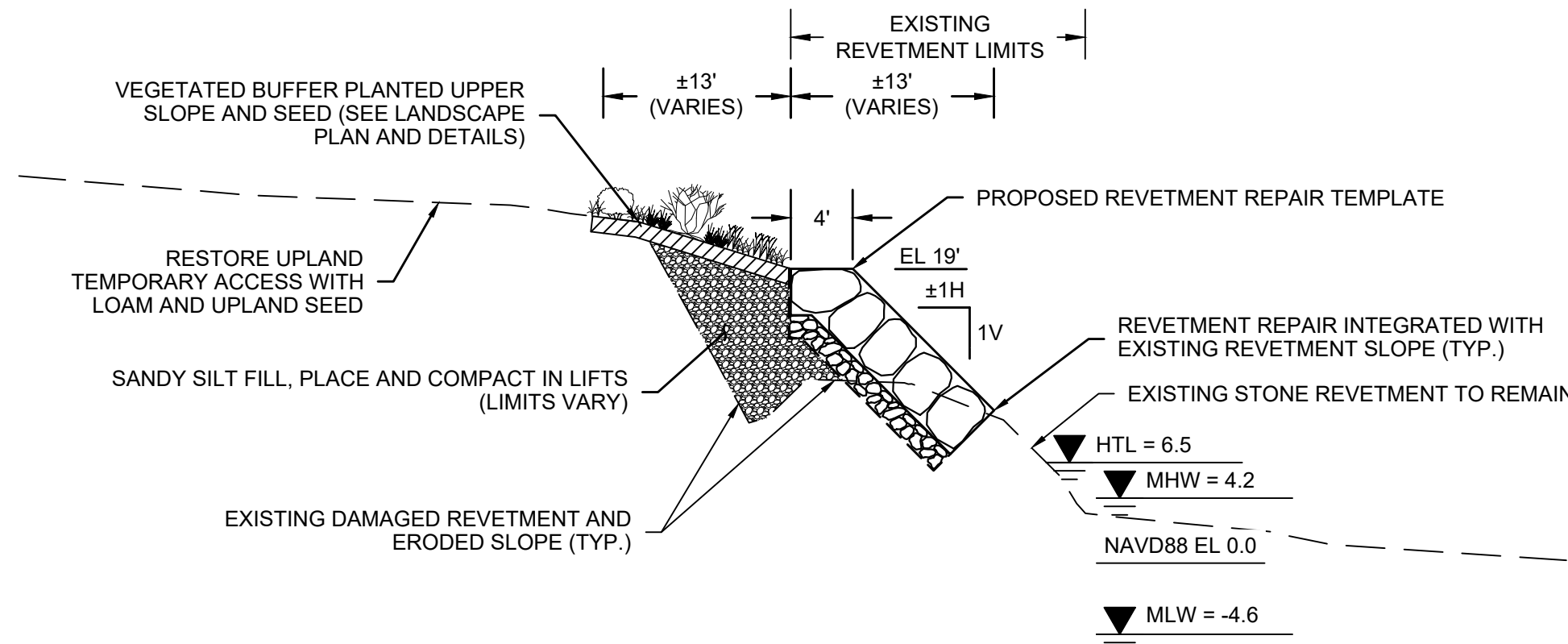
1.	ISSUED FOR BIDDING	DAS	AUG 2026
NO.	ISSUE/DESCRIPTION	BY	DATE
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CRESSY BEACH REVETMENT - STORM DAMAGE REPAIR PROJECT FEMA-4372-DR-MA (PROJECT #67065) 24 HOUGH AVE, GLOUCESTER, MA 01930			
EXISTING SECTIONS			
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: CITY OF GLOUCESTER 28 POPLAR STREET GLOUCESTER, MA	
PROJ MGR: DAS	REVIEWED BY: DAS	CHECKED BY: ABB	DRAWING
DESIGNED BY: DAS	DRAWN BY: LFT	SCALE: AS SHOWN	
DATE: AUG 2026	PROJECT NO. 18.0175863.01	REVISION NO. 1	4
		SHEET NO. 4 OF 8	

© 2026 - GZA GeoEnvironmental, Inc. GZA-C:\Users\BjB\OneDrive\Projects\2026\01\20260101_Cressy Beach Revetment Gloucester - Bid.dwg (Sheet 6 of 8) - 2:17pm Initial: GJW



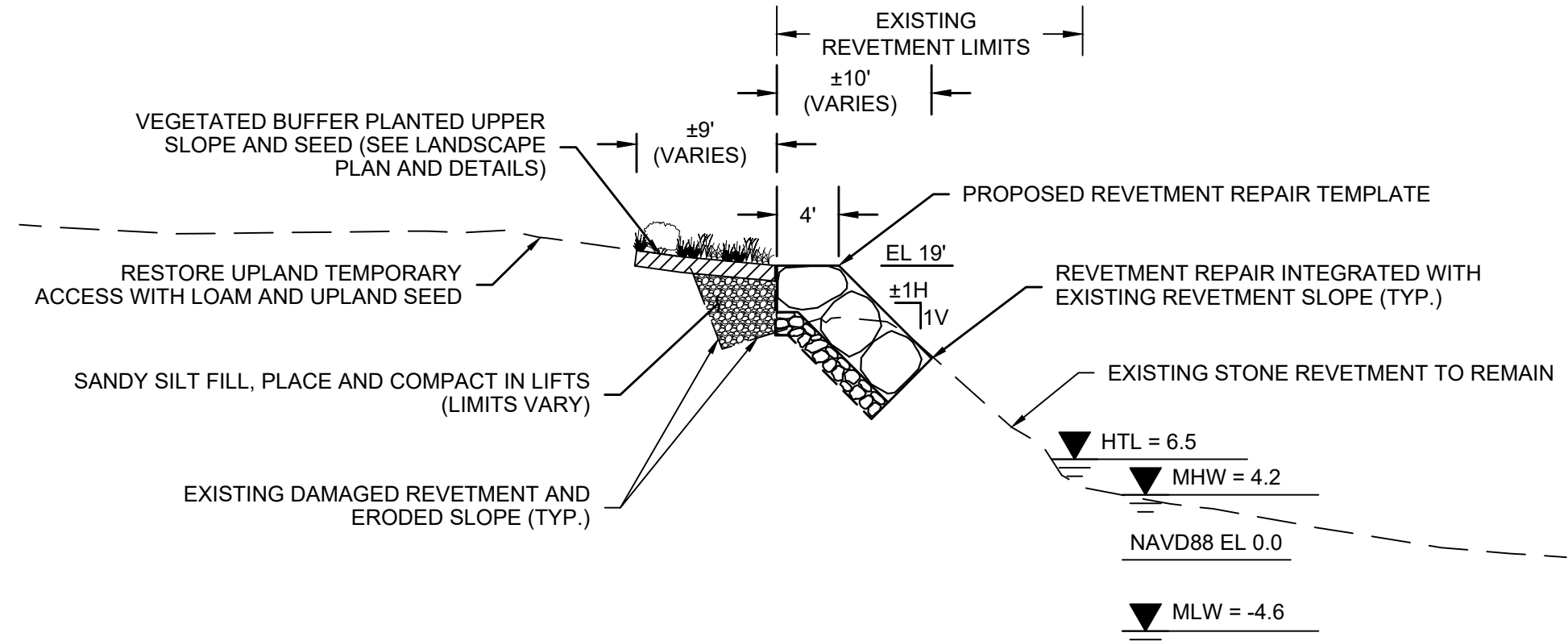
STA 0+50: PROPOSED SECTION (FEMA SITE 3)

SCALE 1" = 10'



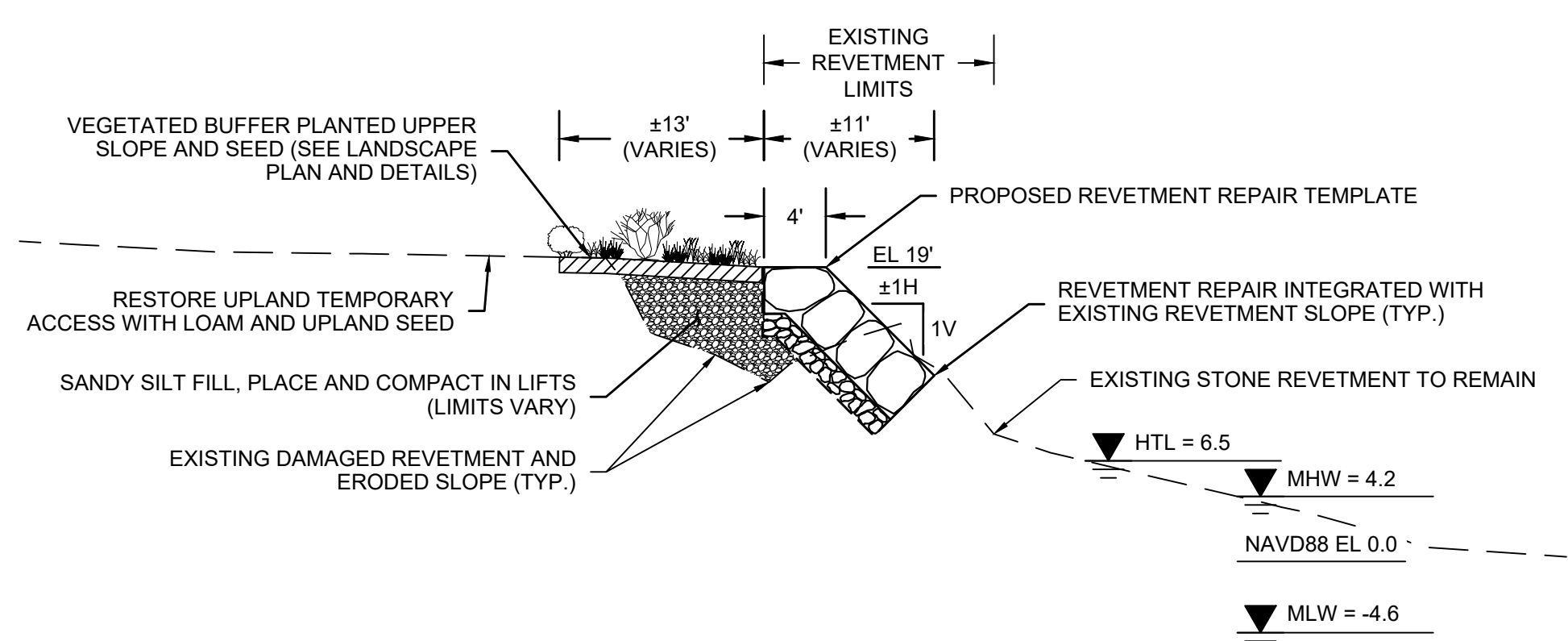
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SCALE 1" = 10'



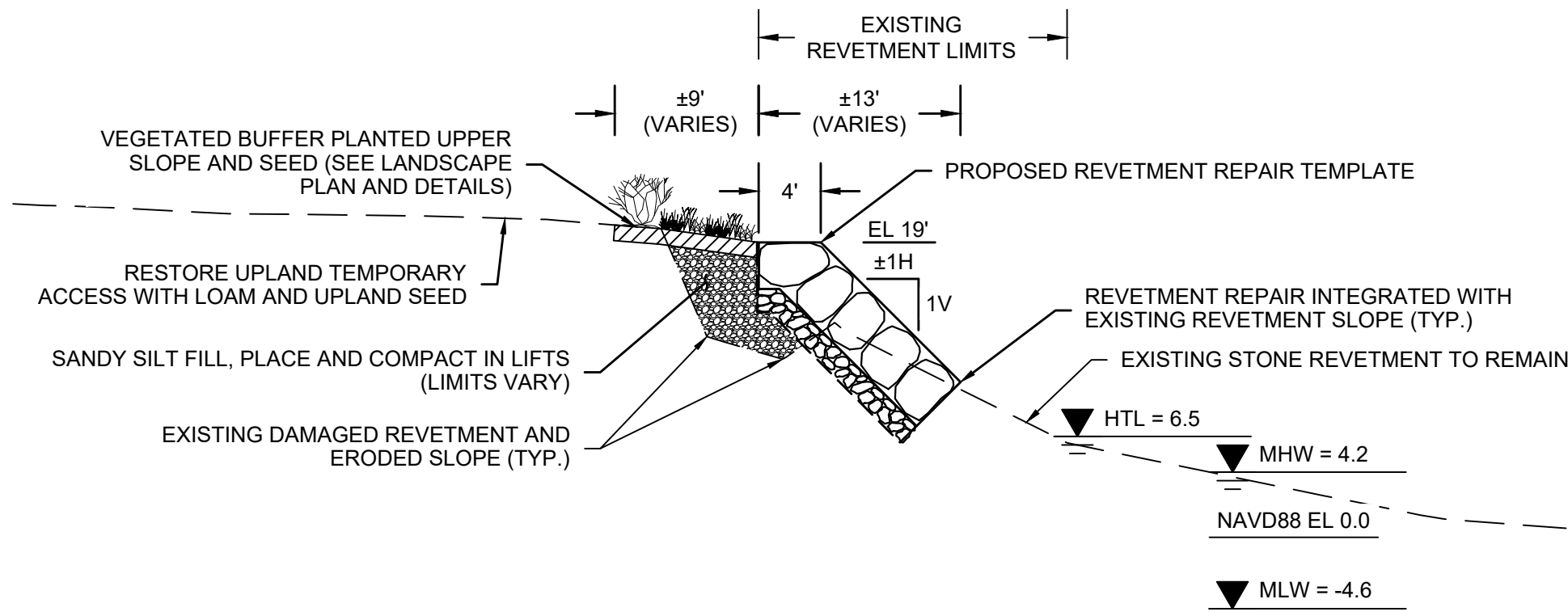
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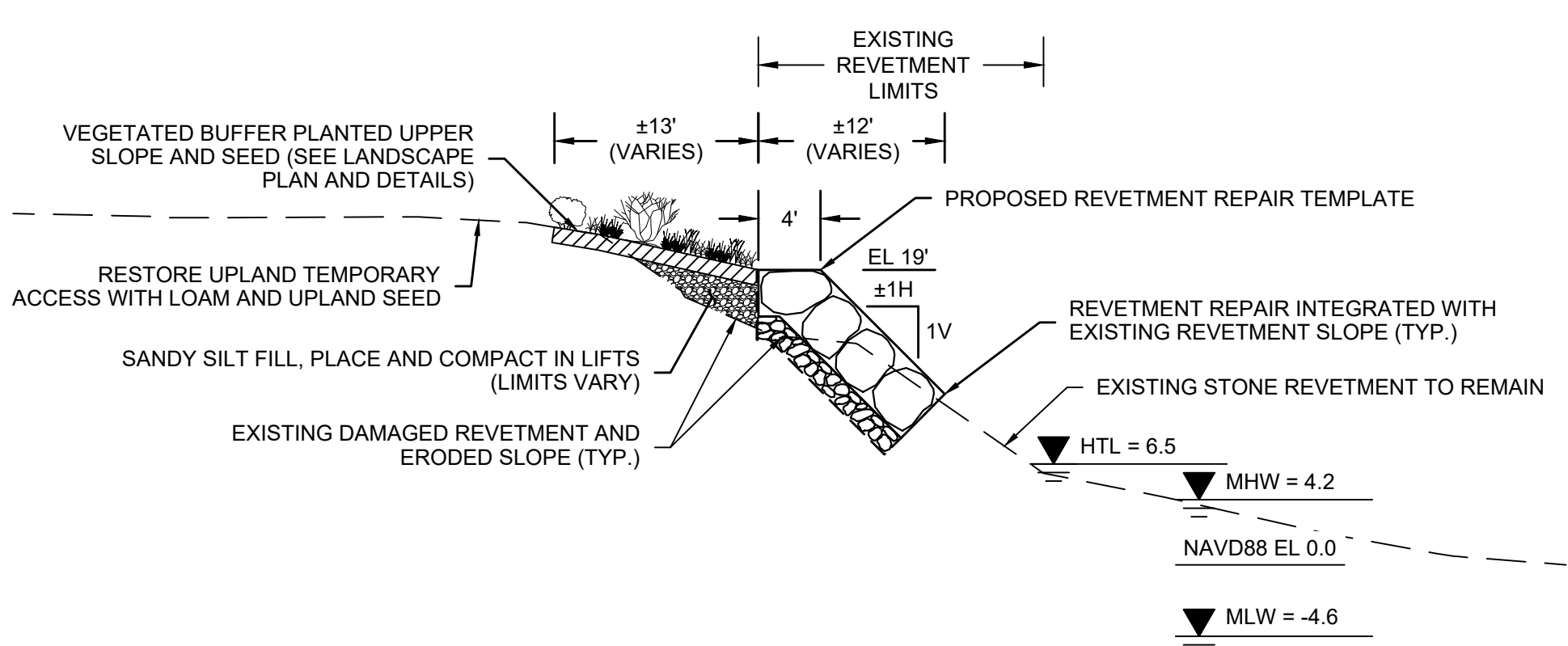
STA 2+00: PROPOSED SECTION (FEMA SITE 3)

SCALE 1" = 10'



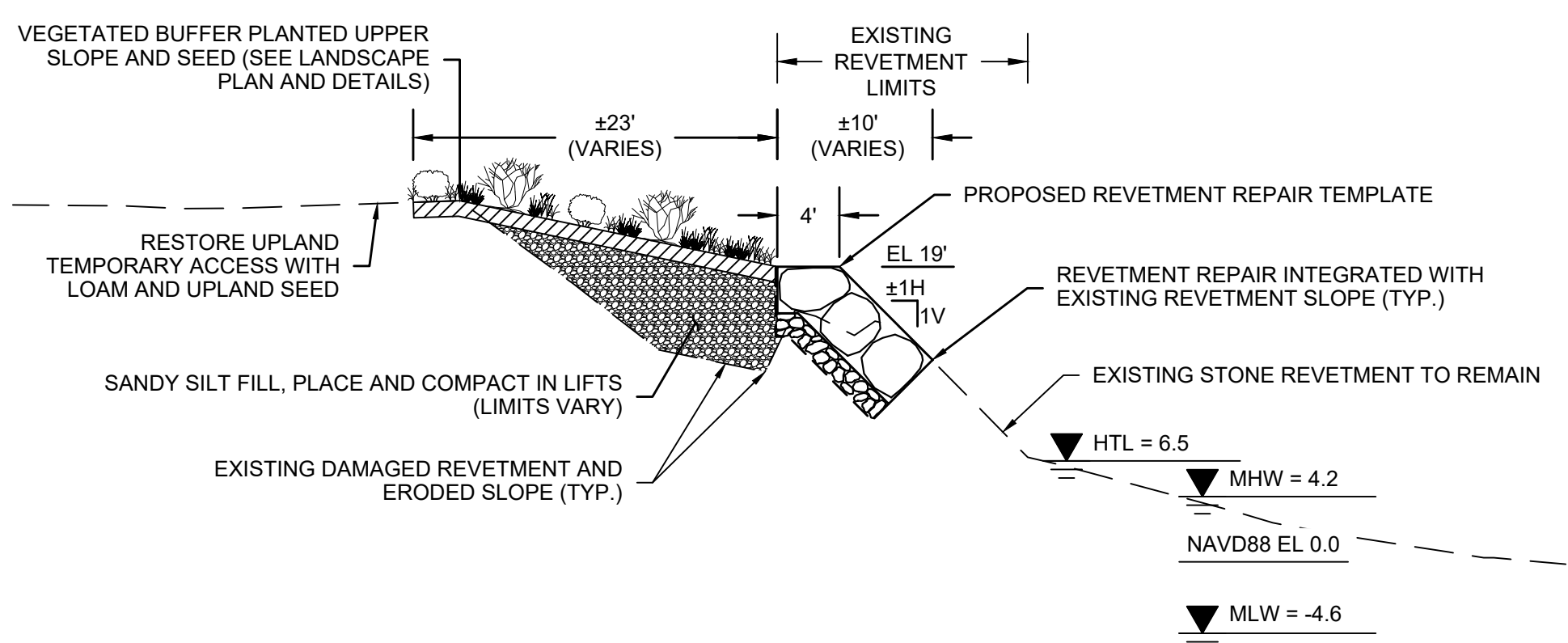
STA 2+50: PROPOSED SECTION (NON-FEMA)

SCALE 1" = 10'



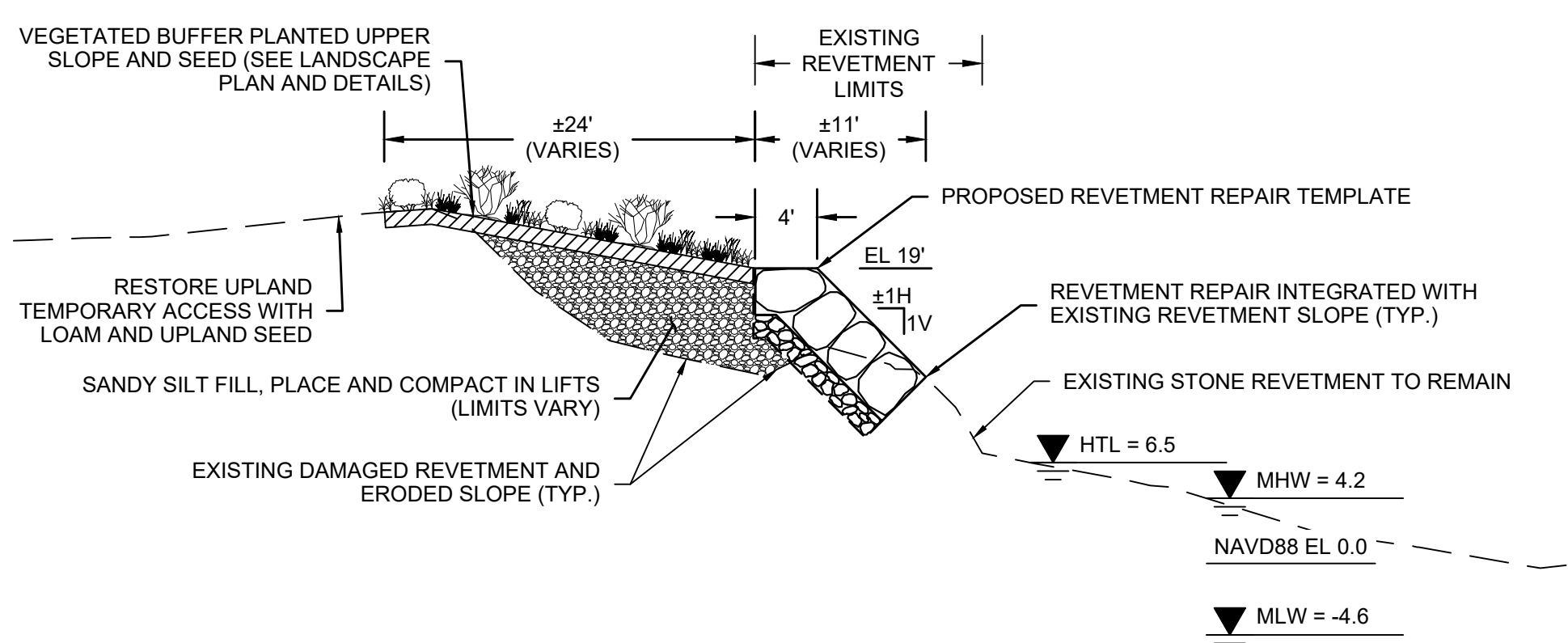
STA 3+00: PROPOSED SECTION (NON-FEMA)

SCALE 1" = 10'



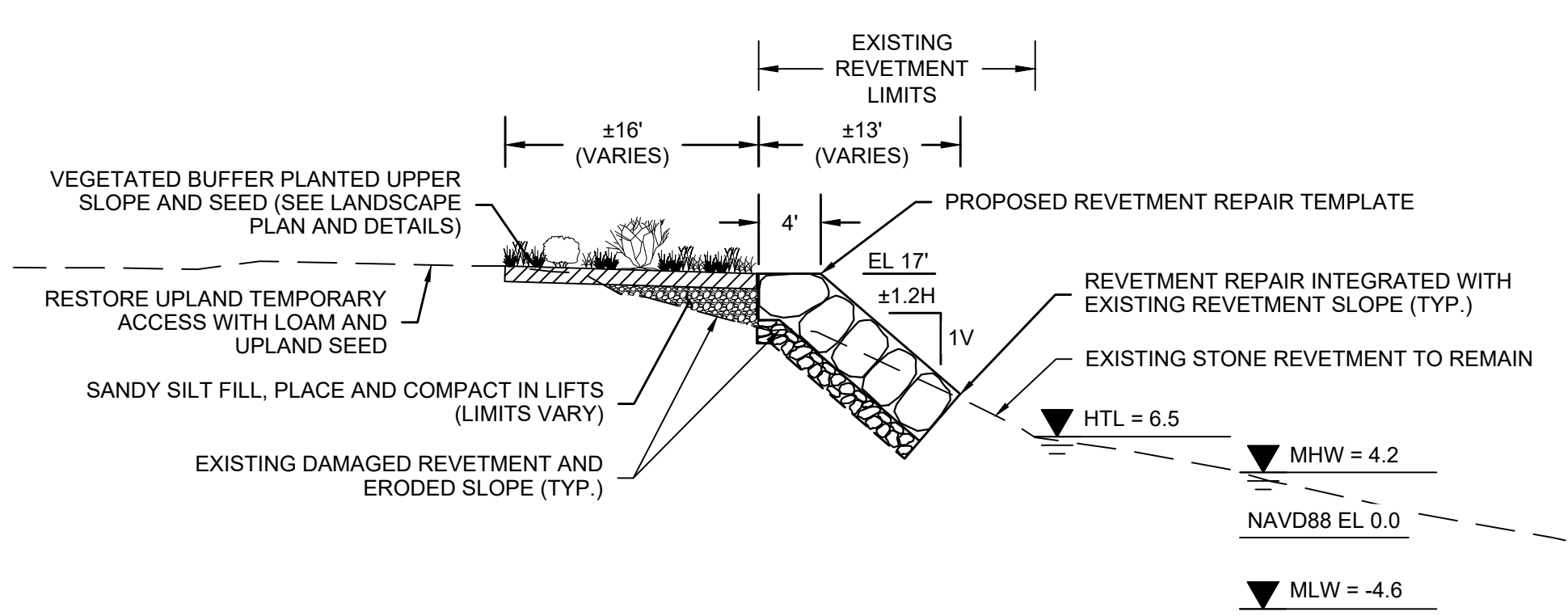
STA 3+50: PROPOSED SECTION (FEMA SITE 2)

SCALE 1" = 10'



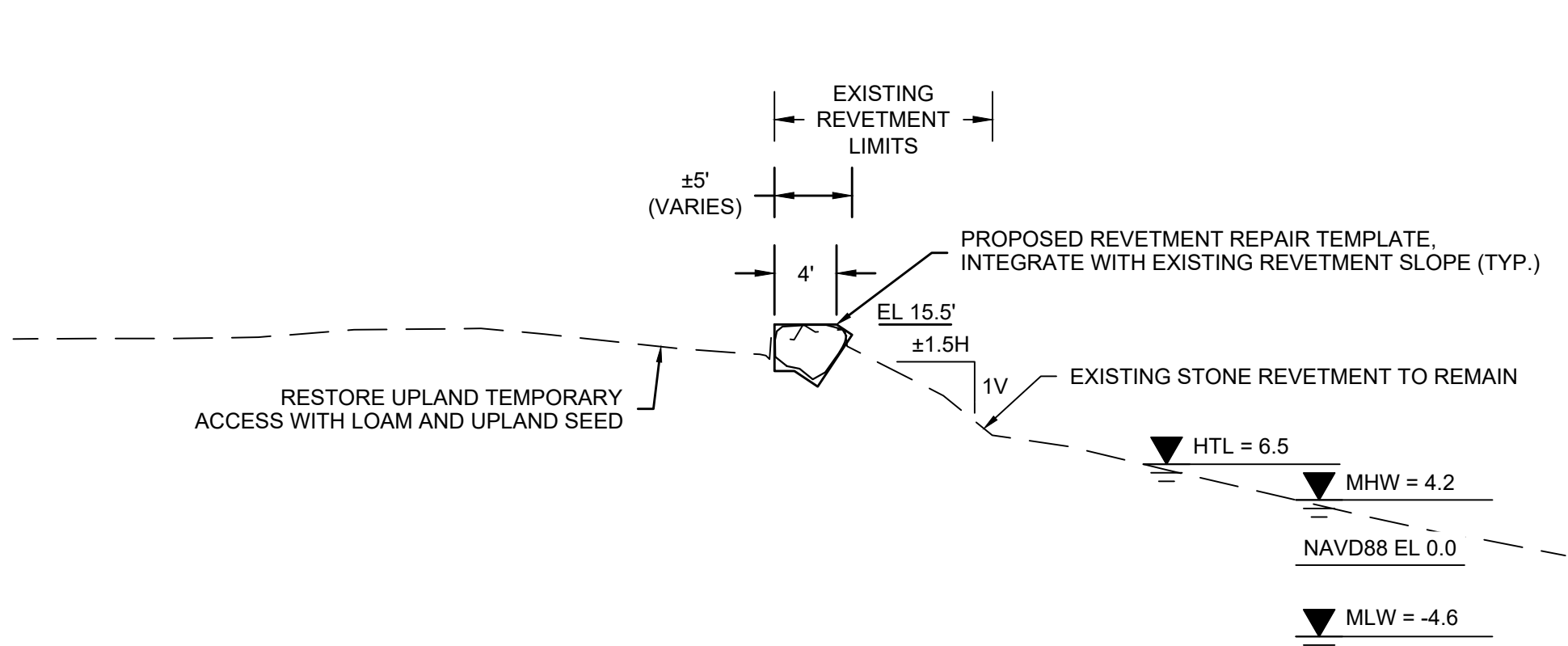
STA 4+00: PROPOSED SECTION (FEMA SITE 2)

SCALE 1" = 10'



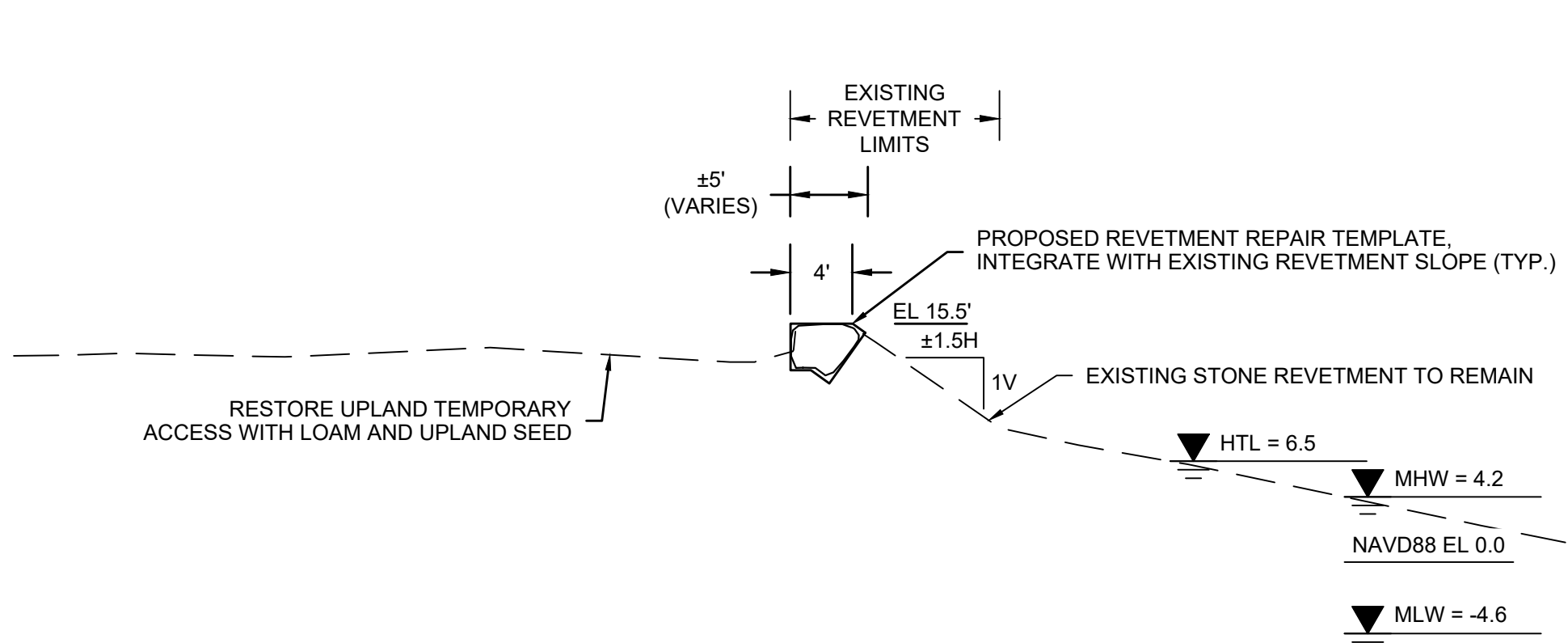
STA 4+50: PROPOSED SECTION (FEMA SITE 2)

SCALE 1" = 10'



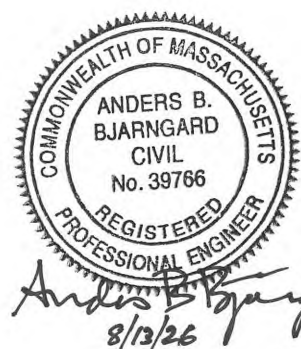
STA 5+00: PROPOSED SECTION (NON-FEMA)

SCALE 1" = 10'



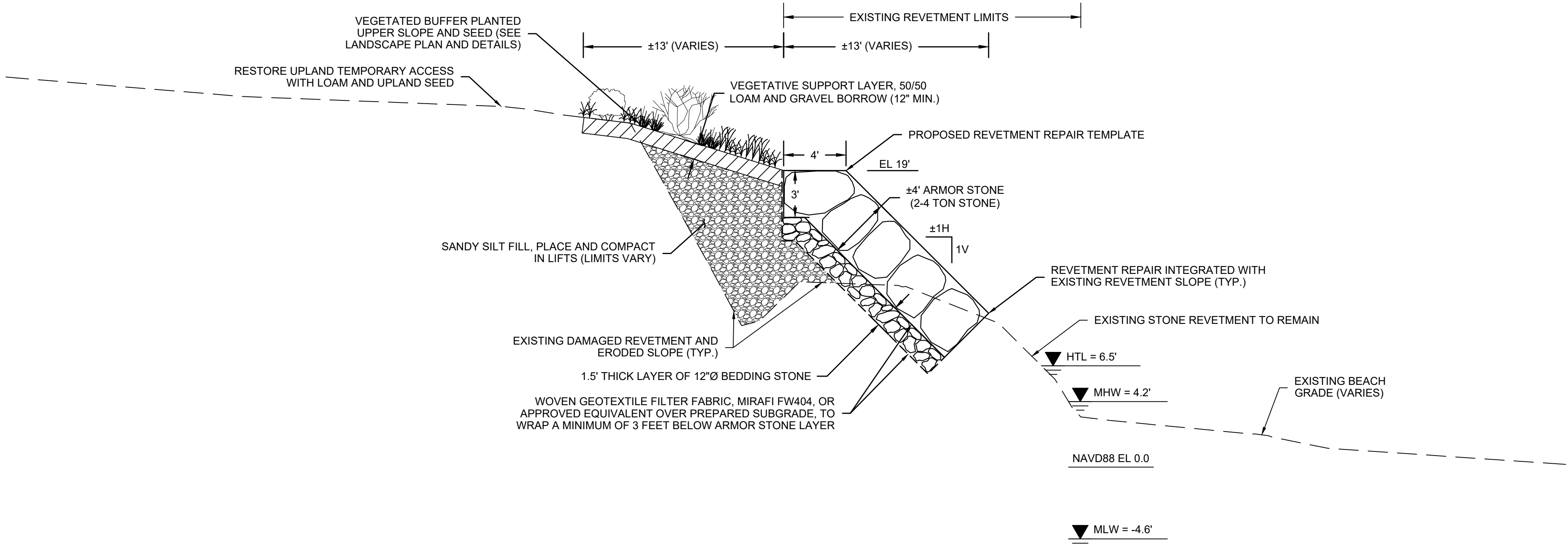
STA 5+50: PROPOSED SECTION (NON-FEMA)

SCALE 1" = 10'



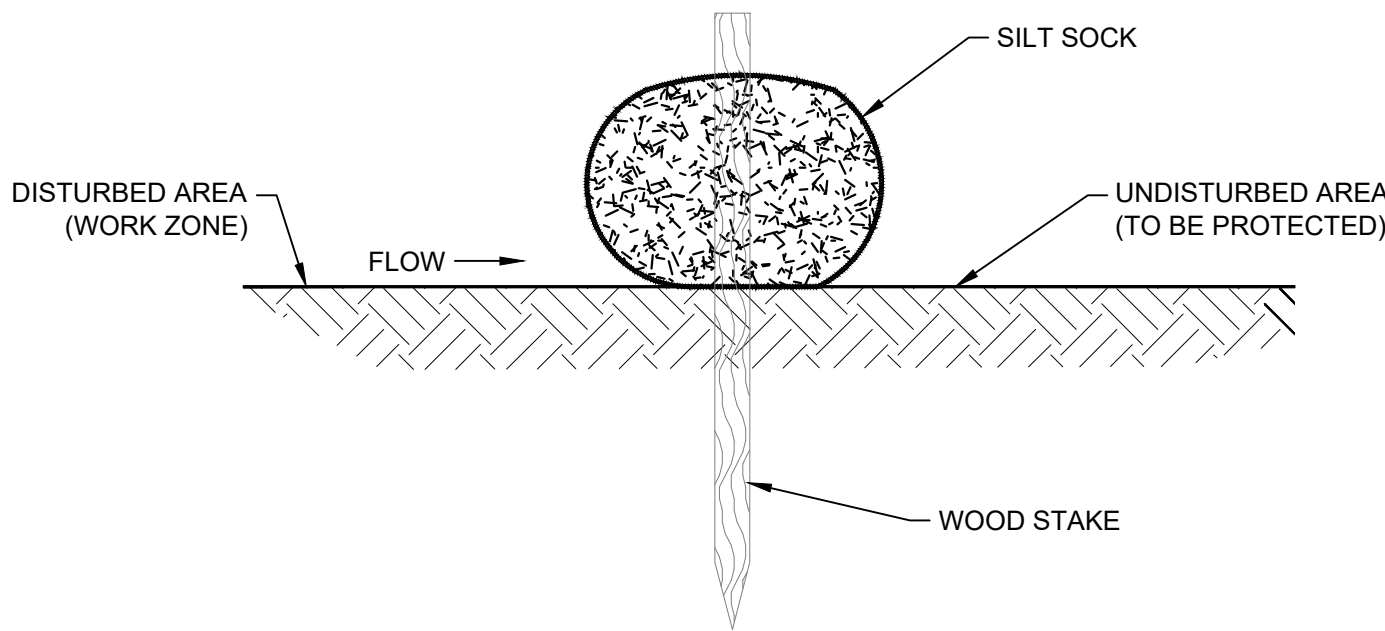
1.		ISSUED FOR BIDDING	DAS	AUG 2026
NO.		ISSUE/DESCRIPTION	BY	DATE
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CRESSY BEACH REVETMENT - STORM DAMAGE REPAIR PROJECT FEMA-4372-DR-MA (PROJECT #67065) 24 HOUGH AVE, GLOUCESTER, MA 01930				
PROPOSED SECTIONS				
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: CITY OF GLOUCESTER 28 POPLAR STREET GLOUCESTER, MA		
PROJ MGR: DAS	REVIEWED BY: DAS	CHECKED BY: ABB	DRAWING	
DESIGNED BY: DAS	DRAWN BY: LFT	SCALE: AS SHOWN	6	
DATE: AUG 2026	PROJECT NO. 18.0175863.01	1	SHEET NO. 6 OF 8	

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TYPICAL REVETMENT REPAIR DETAIL

SCALE 1" = 5'

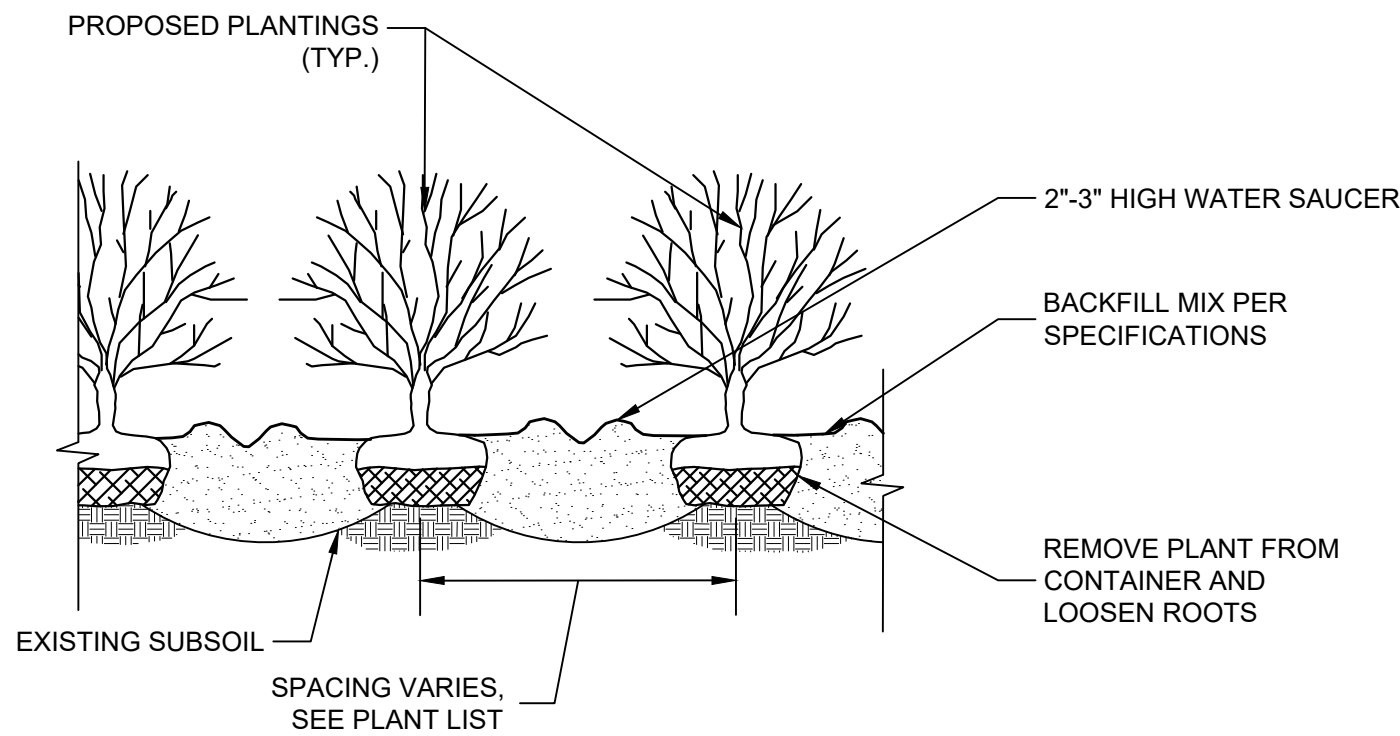


TEMPORARY EROSION CONTROL - SILT SOCK DETAIL

SCALE: N.T.S.

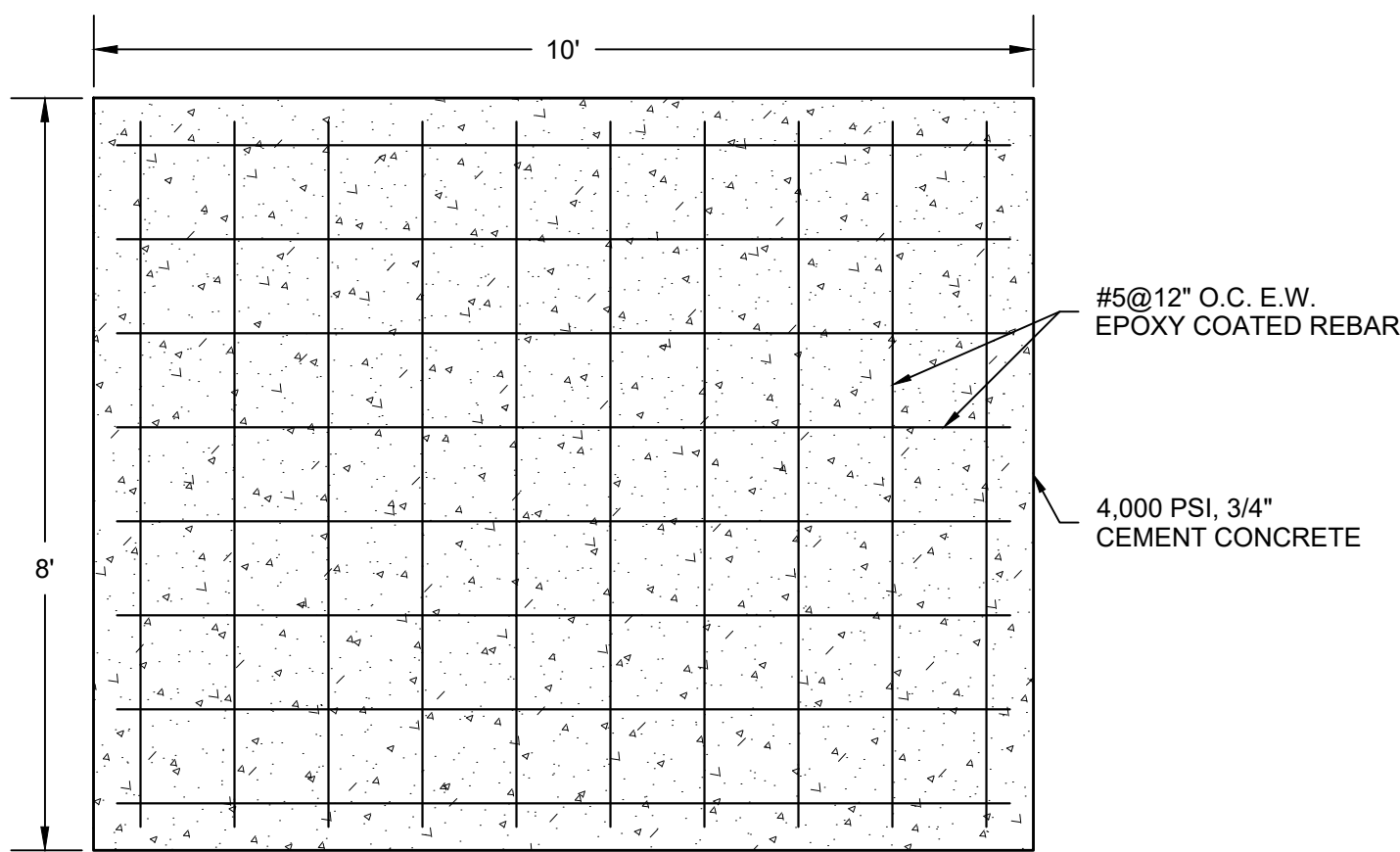
EROSION CONTROL NOTES:

1. EROSION CONTROLS SHALL BE INSPECTED DURING WORK AND MAINTAINED IN GOOD REPAIR.
2. EROSION CONTROLS SHALL REMAIN IN PROPER FUNCTIONING CONDITION UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION OR OTHER MEANS.
3. SILT SOCKS OR COMPOST FILTER TUBES MAY BE PLACED DIRECTLY ON EXISTING PAVEMENT WHEN NECESSARY.



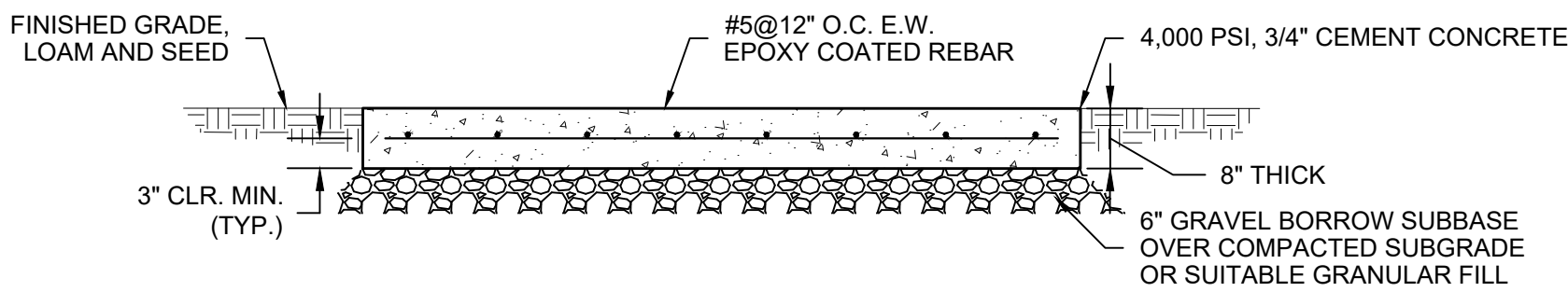
TYPICAL PLANTING DETAIL

SCALE: N.T.S.



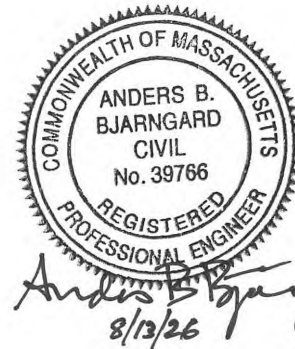
TYPICAL CONCRETE PAD PLAN DETAIL

SCALE: 1" = 2'

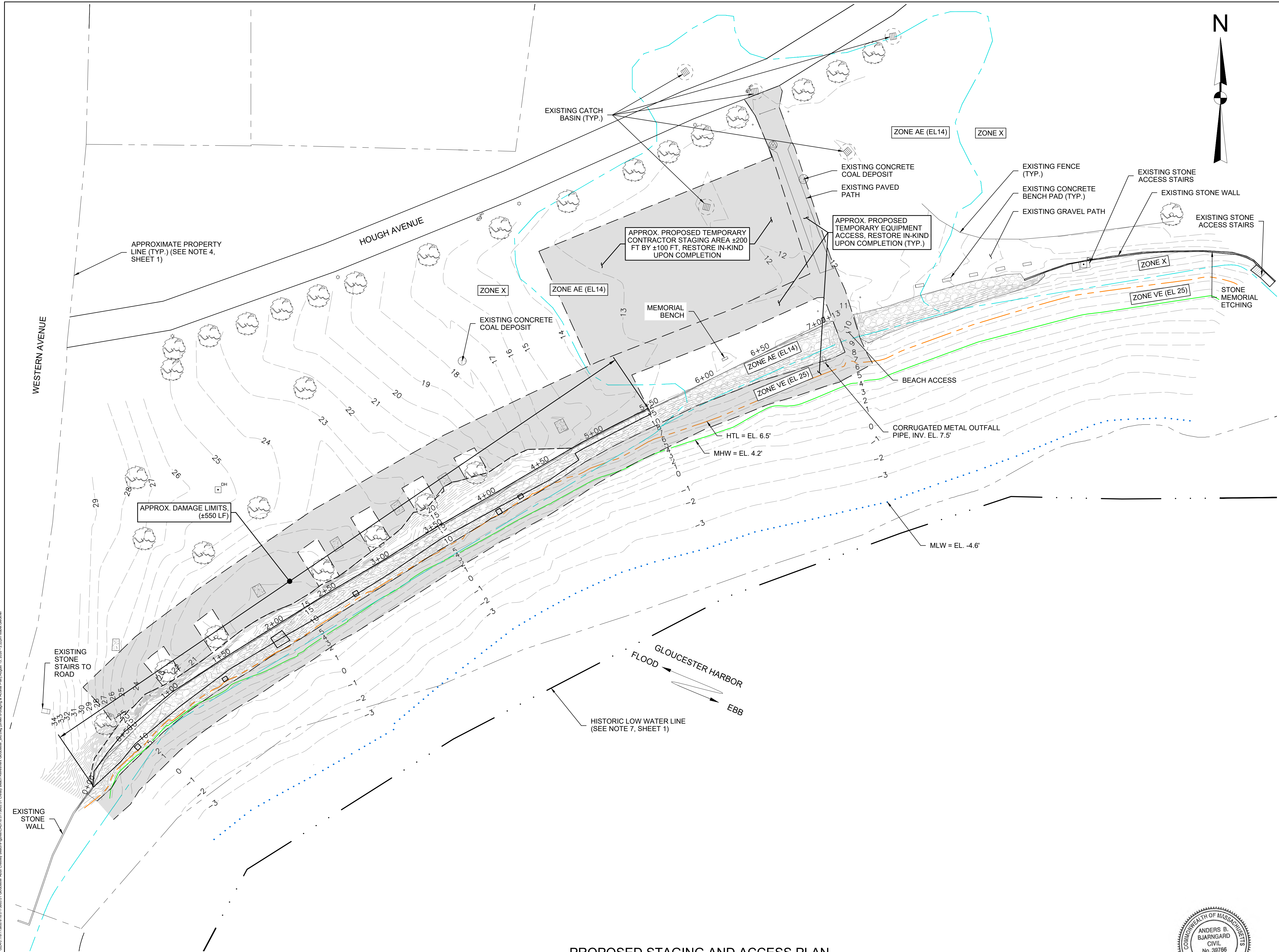


TYPICAL CONCRETE PAD SECTION DETAIL

SCALE: 1" = 2'



1.		ISSUED FOR BIDDING	DAS	JUNE 2026
NO.		ISSUE/DESCRIPTION	BY	DATE
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CRESSY BEACH REVETMENT - STORM DAMAGE REPAIR PROJECT FEMA-4372-DR-MA (PROJECT #67065) 24 HOUGH AVE, GLOUCESTER, MA 01930				
PROPOSED DETAILS				
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: CITY OF GLOUCESTER 28 POPLAR STREET GLOUCESTER, MA		
PROJ MGR: DAS	DESIGNED BY: DAS	REVIEWED BY: DAS	CHECKED BY: ABB	DRAWING
DATE: AUG 26	DRAWN BY: LFT	PROJECT NO. 18.0175863.01	SCALE: AS SHOWN	7
			REVISION NO. 1	SHEET NO. 7 OF 8



- NOTES
1. TEMPORARY CONSTRUCTION EQUIPMENT ACCESS WITHIN THE TIDAL ZONE LIMITED TO TIMES DURING FAVORABLE TIDES TO REDUCE POTENTIAL IMPACTS.
 2. ALL WORK AREAS AND TEMPORARY CONSTRUCTION STAGING AND ACCESS AREAS TO BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.

1.		ISSUED FOR BIDDING	DAS	AUG 2026
NO.		ISSUE/DESCRIPTION	BY	DATE
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CRESSY BEACH REVETMENT - STORM DAMAGE REPAIR PROJECT FEMA-4372-DR-MA (PROJECT #67065) 24 HOUGH AVE, GLOUCESTER, MA 01930				
PROPOSED STAGING AND ACCESS PLAN				
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: CITY OF GLOUCESTER 28 POPLAR STREET GLOUCESTER, MA		
PROJ MGR: DAS	DESIGNED BY: DAS	REVIEWED BY: DAS	CHECKED BY: ABB	DRAWING
DATE: AUG 2026	DRAWN BY: LFT	PROJECT NO. 18.0175863.01	SCALE: AS SHOWN	REVISION NO. 1
				8 SHEET NO. 8 OF 8

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