



Request for Proposals
Specifications and Proposal Documents Attached

Proposal No.: 2022-09

Opening Date and Time: July 13, 2022 @ 2:00 P.M.

Title: Bennie Dover Jackson Middle School Facade repairs

Special Instructions:

1. All questions should be directed to Joshua Montague by email at jmontague@newlondonct.org no later than June 29, 2022 by 4:00 P.M.
2. The selected company will be **REQUIRED** to schedule this work to align with the contractors schedule currently working on the school's renovation project.

The following information must appear in the lower left hand corner of the envelope:

Sealed Proposal No.: 2022-09

Not to be opened until July 13, 2022 at 2:00PM

Return Bid to:

Joshua Montague; Accounting/Purchasing Agent
City of New London
13 Masonic Street
New London, CT 06320

Proposals shall not be accepted after the Opening Date and Time indicated above.



PLEASE RETURN THIS FORM IMMEDIATELY

Acknowledgement: Receipt of Request for Proposals

Bid No.: 2022-09

Bennie Dover Jackson Middle School Facade repairs

Please take a moment to acknowledge receipt of the attached documents. Your compliance with this request will help us to maintain proper follow-up procedures and will ensure that you receive any addendum that may be issued.

Date Issued: June 15, 2022

Date documents received: _____/_____/_____

Do you plan to submit a response? Yes _____ No _____

Print or type the following information:

Company Name: _____

Address: _____

Telephone: _____ Fax: _____

E-mail: _____

Received by: _____

Note: Faxed or e-mailed acknowledgments are requested.

Fax No.: (860)447-5297

E-mail: jmontague@newlondonct.org

Fax this sheet only. A cover sheet is not required.



City of New London

Department of Finance-Purchasing Agent
13 Masonic Street • New London, CT 06320 • Phone (860) 447-5215 • Fax (860) 447-5297

Standard Invitation for Bids (IFB) and Contract Terms and Conditions

All Invitations for Bids issued by the City of New London (City) will bind Bidders to the terms and conditions listed below, unless specified otherwise in any individual Invitation for Bids.

Incorporated by reference into this contract are the provisions of Section 2-66 through 2-71 and Section 2-73 of the Code of Ordinances of the City of New London.

The contractor agrees to comply with the Code of Ordinances as they exist on the date of the contract and as they may be adopted or amended from time to time during the term of this contract and any amendments thereto.

Submission of Bids

1. Bids must be submitted on forms supplied by the City of New London. Telephone, facsimile or e-mail bids will not be accepted in response to an Invitation for Bids. An original and one (1) copy of the Proposal Form shall be returned to the Purchasing Agent.
2. The date and time bids are to be opened are given in each Invitation for Bids issued. Bids received after the specified date and time of the bid opening given in each Invitation for Bids will not be considered. Bid envelopes must clearly indicate the bid number as well as the date and time of the bid opening. The name and address of the bidder should appear in the upper left-hand corner of the envelope.
3. Incomplete proposal forms may result in the rejection of the bid Amendments to bids received by the Purchasing Agent after the date and time specified for the bid opening shall not be considered. Bids shall be computer prepared, typewritten or handwritten in ink. Bids submitted in pencil shall be rejected. A person duly authorized to sign bids for the bidder shall sign all bids. Unsigned bids shall be rejected. The person signing the Proposal Form or their authorized designee must initial errors, alterations or corrections on both the original and copy of the Proposal Form to be returned. In the event an authorized designee initials a correction, there must be written authorization from the person signing the Proposal Form to the person initialing the erasure, alterations or corrections. Failure to do so shall result in rejection of the bid for those items erased, altered or corrected and not initialed.
4. Conditional bids are subject to rejection in whole or in part. A conditional bid is defined as one that limits, modifies, expands or supplements any of the terms and conditions and/or specifications of the Invitation for Bids.
5. Alternate bids will not be considered. An alternate bid is defined as one that is submitted in addition to the bidder's primary response to the Invitation for Bids.
6. Prices should be extended in decimal, not fraction, to be net and shall include delivery and transportation charges fully prepaid by the Contractor to the destination specified in the Invitation for Bids and subject only to cash discount.
7. Pursuant to Sections 12-412 and 12-412(1) of the Connecticut General Statutes, the City of New London is exempt from the payment of excise, transportation and sales taxes imposed by the Federal Government and/or the State. Such taxes must not be included in the bid prices.
8. In the event of a discrepancy between the unit price and the extension, the unit price shall govern.
9. By its submission the Bidder represents that the bid is not made in connection with any other Bidder submitting a bid for the same commodity or commodities and is in all respects fair and without collusion or fraud.

Standard Invitation for Bids (IFB) and Contract Terms and Conditions

10. All bids will be opened and read publicly and upon award are subject to public inspection.

Guaranty or Surety

11. Bid bonds, performance bonds, and labor and material bonds will be required as specified below. Guaranty or surety may be in the form of certified check. Bonds must meet the following requirements: Corporation – must be signed by an official of the corporation above their official title and the corporate seal must be affixed over the signature; Firm or Partnership - must be signed by all of the partners and indicate they are “doing business as”; Individual – must be signed by the owner and indicated as “Owner”. The surety company executing the bond or countersigning must be licensed in Connecticut and an official of the surety company must sign the bond with the corporate seal affixed over the signature. Signatures of two (2) witnesses for both the principal and the surety must appear on the bond. Power of attorney for the official signing the bond for the surety company must be submitted with the bond.

Bid Bond – Ten percent (10%) due at time of bid for all contract services and public works/construction projects that exceed twenty thousand dollars (\$20,000.00)

Performance Bond – One hundred percent (100%) of contract price for projects that exceed fifty thousand dollars (\$50,000.00).

Labor and Material Payment Bonds – One hundred percent (100%) of contract price for projects that exceed fifty thousand dollars (\$50,000.00).

Award

12. Award of this contract will be made to the lowest responsible, qualified bidder and will be based on net cost and City specifications. The City of New London reserves the right to award this contract to other than the low bidder and to make multiple awards if deemed in the best interest of the City.
13. The City of New London allows a fifteen percent (15%) local vendor preference. A New London based business will be considered the lowest responsible bidder if its bid is within fifteen percent (15%) of the low bid and it is willing to accept the award at the low bid price. Any bidder claiming to be a New London based business must provide documentation that all of its motor vehicles are registered in New London and that payment of all of its property and motor vehicle taxes are current.
14. The City of New London may reject any bidder in default of any prior contract or guilty of misrepresentation or any bidder with a member of its firm in default or guilty of misrepresentation.
15. The Purchasing Agent may correct inaccurate awards resulting from clerical or administrative errors.

Other Requirements

16. The City has an employment preference goal that jobs be offered to local residents on public prevailing wage projects with thresholds great than \$100,000 for renovation and \$400,000 for new construction. For such projects, it is understood that contractors shall make a good faith effort to employ a participating workforce comprised of twenty-five (25%) local residents of New London County, CT, with residents of the City of New London, CT getting a priority representing fifty percent (50%) of said participation, which will include twenty-five percent (25%) female and minority.
17. The City has an employee training preference goal that apprenticeship opportunities be made available for state licensed trades on public prevailing wage projects with thresholds greater than \$100,000 for renovation and \$400,000 for new construction. For such projects, it is understood that contractors shall make a good faith effort to employ a minimum of ten percent (10%) of the workforce per state licensed trade as apprentices and, of this number, a minimum of fifty percent (50) shall be in the first year of apprenticeship training.

Standard Invitation for Bids (IFB) and Contract Terms and Conditions (con't)

Contract

18. The existence of a contract shall be determined in accordance with the requirements set forth above.
19. The Contractor shall not assign or otherwise dispose its contract or its right, title or interest, or its power to execute such contract to any other person, firm or corporation without the prior written consent of the City of New London.
20. Failure of a Contractor to deliver commodities or perform services as specified will constitute authority for the City of New London to purchase these commodities or services on the open market. The contractor agrees to promptly reimburse the City of New London for excess cost of these purchases. The purchases will be deducted from the contracted quantities.
21. The Contractor agrees to hold the City of New London harmless from liability of any kind for the use of any copyrighted or uncopyrighted composition, secret process, patented or unpatented invention furnished or used in the performance of the Contract; Guarantee its products against defective material or workmanship; repair damages of any kind, for which it is responsible to the premises or equipment, to its own work or to the work of other contractors; obtain and pay for all licenses, permits, fees etc., and to give all notices and comply with all requirements of the City of New London, the State of Connecticut and the U.S. Government.
22. Insurance requirements generally apply to contract services, professional services and public works improvement/construction projects. The Contractor will carry commercial general liability insurance to protect the City of New London from loss. The following minimum limits shall be met:

Bodily Injury and Property Damage – One million dollars (\$1,000,000.00) each occurrence; two million dollars (\$2,000,000.00) aggregate

Products or Completed Operations - One million dollars (\$1,000,000.00) each occurrence; two million dollars (\$2,000,000.00) aggregate

Professional Liability (Errors and Omissions) Coverage appropriate to the contractor's operations – Two million dollars (\$2,000,000.00) each occurrence

Commercial Automobile Coverage including owned, non-owned, leased and hired vehicles (if used on City of New London property) – One million dollars (\$1,000,000.00) combined single limit for each accident.

Workers' Compensation Coverage - Will be in accordance with State of Connecticut requirements at the time of bid.

Any deductible or self-insured retention must be disclosed and any claim payments falling within the deductible shall be the responsibility of the contractor.

The Contractor shall require all subcontractors to carry the same forms and minimum coverages that it is required to provide. Evidence of these coverages must be provided to the City of New London Purchasing Agent prior to the contractor or subcontractor coming onto the work site.

All insurance policies shall be endorsed to the City of New London, its officers and employees as additional insured, and shall not be reduced or cancelled without thirty (30) days prior written notice to the Purchasing Agent. In addition, the contractor's insurance shall be primary as respects the City of New London, and any other insurance maintained by the City of New London shall be excess and not contributing insurance with the contractor's insurance.

Contractor shall agree to maintain in force at all times during the contract the following minimum coverages and shall name the City of New London as an Additional Insured on a primary and non-contributory basis to all policies, except Workers Compensation. All policies should also include a Waiver of Subrogation. The Additional Insured Endorsement shall be written on ISO Form 2010 and 2037 or its equivalent and shall include coverage for Products/Completed Operations after the work is complete.

Standard Invitation for Bids (IFB) and Contract Terms and Conditions (con't)

23. Notwithstanding any provision or language in this contract to the contrary, the Mayor may, without cause, terminate this contract upon approval by the City Council, whenever he/she determines that such termination is in the best interest of the City of New London. Any such termination shall be effected by delivery to the Contractor of a written notice of termination. The notice of termination shall be sent by registered mail to the Contractor address furnished to the City of New London for purposes of correspondence or by hand delivery. Upon receipt of such notice, the Contractor shall both Immediately discontinue all services affected (unless the notice directs otherwise) and deliver to the City of New London all data, drawings, specifications, reports, estimates, summaries, and such other information and materials as may have been accumulated by the Contractor in performing its duties under this contract, whether completed or in progress. All such documents, information and materials shall become the property of the City of New London. In the event of such termination, the contractor shall be entitled to reasonable compensation as determined by the Mayor, however, no compensation for lost profits shall be allowed.

Delivery

24. All products and equipment delivered must be new unless otherwise stated in the proposal specifications.
25. All deliveries will be to the locations specified by the City of New London. The City of New London does not have a loading dock therefore all Contractors will be responsible for inside delivery without assistance from City of New London personnel.
26. Payment terms are net 45 days after receipt of goods or invoice, whichever is later, unless otherwise specified.
27. Charges against a Contractor shall be deducted from current obligations. Money paid to the City of New London shall be payable to the Treasurer, City of New London.

Saving Clause

28. The Contractor shall not be liable for losses or delays in the fulfillment of the terms of the contract due to wars, acts of public enemies, strikes, fires, floods, acts of God or any other acts not within the control of or reasonably prevented by the Contractor. The contractor will give written notice of the cause and probable duration of any such delay.

Advertising

29. Contractors may not reference sales to the City of New London for advertising and promotional purposes without prior approval of the City of New London.

Rights

30. The City of New London has sole and exclusive right and title to all printed material produced for the City of New London and the Contractor shall not copyright the printed matter produced under this contract.
31. The Contractor assigns to the City of New London all rights, title and interests in and to all causes of action it may have under Section 4 of the Clayton Act, 15 USC 15, or under Chapter 624 of the Connecticut General Statutes. This assignment occurs when the contractor is awarded the contract.
32. The Contractor agrees that it is in compliance with all applicable federal, state and local regulations, including but not limited to Connecticut General Statutes Section 7-148i. The Contractor also agrees that it will hold the City of New London harmless and indemnify the City of New London from any action which may arise out of any act by the Contractor concerning lack of compliance with these laws and regulations. All purchases will be in compliance with Sections 22a-194 to 22a-194g of the Connecticut General Statutes related to product packaging.
33. This contract is subject to the provisions of Executive Order Number Three of Governor Thomas J. Meskill promulgated June 16, 1971, the provision of Executive Order Number Seventeen of Governor Thomas J. Meskill promulgated February 15, 1973 and Section 16 of Public Act 91-58, nondiscrimination regarding sexual orientation, and the provisions of Executive Order No. Sixteen of Governor John G. Rowland promulgated August 4, 1999 regarding Violence in the Workplace Prevention Policy.

NON COLLUSION AFFIDAVIT OF PRIME BIDDER

State of _____)
County of _____) ss.

_____, being first duly sworn,
deposes and say that:

- (1) He is _____ of _____ herein referred to as the "Bidder" that has submitted the attached bid;
- (2) He is fully informed respecting the preparation and content of the attached Bid and of all pertinent circumstances respecting such Bid;
- (3) Such Bid is genuine and is not a collusive or sham Bid;
- (4) Neither the said Bidder nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly with any other Bidder, firm or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted or to refrain from bidding in connection with such Contract, or has in any manner directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm or person to fix the price or prices in the attached Bid or of any other Bidder, or to fix any overhead, profit or cost element of the Bid price or the Bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the City of New London, CT or any person interested in the proposed Contract; and
- (5) The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners, employees, or parties of interest, including this affiant.
- (6) That no officer or employee or person whose salary is payable in whole or in part from the City of New London is directly or indirectly interested in this Bid, or in the supplies, materials, equipment, work or labor to which it relates, or in any of the profits thereof.

Signed _____

Title _____

Subscribed and sworn before me this

_____ day of _____ 20____

(Notary Public)

My Commission expires _____

NON COLLUSION AFFIDAVIT OF SUBCONTRACTOR

State of _____)
County of _____) ss.

_____, being first duly sworn,
deposes and says that:

- (1) He is _____ of _____ herein referred to as the "Subcontractor";
- (2) He is fully informed respecting the preparation and content of the Subcontractor's Proposal submitted by the Subcontractor to _____, the Contractor for certain work in connection with the _____ Contract pertaining to the Project in New London, Connecticut;
- (3) Such Subcontractor's Proposal is genuine and is not a collusive or sham Bid;
- (4) Neither the said Subcontractors nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly with any other Bidder, firm or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted or to refrain from bidding in connection with such Contract, or has in any manner directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm or person to fix the price or prices in said Subcontractor's Proposal or to fix any overhead, profit or cost element of the Bid price or the Bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the City of New London, CT or any person interested in the proposed Contract; and
- (5) The price or prices quoted in the attached Subcontractor's Proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners, employees, or parties of interest, including this affiant.
- (6) That no officer or employee or person whose salary is payable in whole or in part from the City of New London is directly or indirectly interested in this Bid, or in the supplies, materials, equipment, work or labor to which it relates, or in any of the profits thereof.

Signed _____

Title _____

Subscribed and sworn before me this

_____ day of _____ 20____

(Notary Public)

My Commission expires _____

AFFIRMATIVE ACTION POLICY STATEMENT
(must be submitted on your firm's letterhead)

It has always been the policy and will continue to be the strong commitment of _____ and all contractors and subcontractors who do business with this City to provide equal opportunities in employment to all qualified persons solely on the basis of job-related skills, ability and merit. _____ will continue to take Affirmative Action to ensure that applicants are employed and that employees are treated during employment without regard to their race, color, religion, sex, national origin, ancestry, mental disorder (present or past history thereof), age, physical disability (but not limited to blindness), marital status, mental retardation, and criminal record. Such action includes, but is not limited to, employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation and selection for training including apprenticeship. _____, and its subcontractors will continue to make good faith efforts to comply with all federal and state laws and policies which speak to equal employment opportunity.

The principles of Affirmative Action are addressed in the 13th, 14th, and 15th Amendments of the United States Constitution, Civil Rights Act of 1866, 1870, 1871, Equal Pay Act of 1963, Title VI and VII of - the 1964 United States Civil Rights Act, Presidential Executive Orders 11246, amended by 11375, (nondiscrimination under federal contracts), Act I, Sections 1 and 20 of the Connecticut Constitution, Governor Grasso's Executive Order Number 11, Governor O'Neill's Executive Order Number 9, the Connecticut Fair Employment Practices Law (Sec. 46a-60-69) of the Connecticut General Statutes, Connecticut Code of Fair Practices (46a-70-81), Deprivation of Civil Rights (46a-58(a)(d)), Public Accommodations Law (46a-63-64), Discrimination against Criminal Offenders (46a-80), definition of Blind (46a-51(1)), definition of Physically Disabled (46a-51(15)), definition. of Mentally Retarded (46a-51(13)), cooperation with the Commission on Human Rights and Opportunities (46 - 77), Sexual Harassment (46a-60(a)-8), Connecticut Credit Discrimination Law (36-436 through 439), Title I of the State and Local Fiscal Assistance Act of 1972.

This Affirmative Action Policy Statement re-affirms my personal commitment to the principles of Equal Employment Opportunity.

DATE

Signature of Authorized Signer

CERTIFICATION OF BIDDER REGARDING
EQUAL EMPLOYMENT OPPORTUNITY

INSTRUCTIONS

This certification is required pursuant to Executive Order 11246 Part II, Section 203(b), (30 FR 12319, 12935). The implementing rules and regulations provide that any bidder or prospective contractor, or any of its proposed subcontractors, shall state whether it has participated in any previous contract or subcontract subject to the equal opportunity clause; and, if so, whether it has filed all compliance reports due under applicable instructions.

Where the certification indicated that the bidder has not filed a compliance report due under applicable instructions, such bidder shall be required to submit a compliance report within seven (7) calendar days after bid opening. No contract shall be awarded unless such report is submitted.

CERTIFICATION BY BIDDER

Bidder's Name _____

Address and Zip Code _____

1. Bidder has participated in a previous contract or subcontract subject to the Equal Opportunity Clause.

Yes () No () If answer is yes, identify the most recent contract.

2. Compliance reports were required to be filed in connection with such contract or subcontract

Yes () No () If answer is yes, identify the most recent contract.

3. Bidder has filed all compliance reports due under applicable instructions, including SF. 100.

Yes () No () Not Required ()

4. If answer to Item 3 is "No" please explain in detail on reverse side of this Certification.

Certification - The information above is true and complete to the best of my knowledge and belief. A willfully false statement is punishable by law (U.S. Code, Title 18, Section 1001).

Name and Title of Signer (Please Type)

Signature

Date

2022-09 B.D.J.M.S Facade repair

CERTIFICATION OF NON-SEGREGATED FACILITIES

This Bidder certifies that he does not maintain or provide his employees any segregated facilities at any of his establishments, and that he does not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The Bidder certifies further that he will not maintain or provide for his employees any segregated facilities at any of his establishments, and that he will not permit his employees to perform their services at any locations, under his control, where segregated facilities are maintained. The Bidder agrees that a breach of his certification will be a violation of the Equal Opportunity clause and any Contract resulting from acceptance of this Bid. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, timeclocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are, in fact, segregated on the basis of race, color, religion or national origin, because of habit, local custom or otherwise. The Bidder agrees that (except where he has obtained identical certification from proposed Subcontractors for specific time periods) he will obtain identical certifications from proposed Subcontractors prior to the award of Subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity clause; that he will retain such certifications in his files; and that he will forward the following notice to such proposed subcontractors (except where the proposed subcontractors have already submitted identical certifications for the specific time periods):

“Notice to prospective subcontractors of requirements for non-segregated facilities. A certification of non-segregated facilities must be submitted prior to the award of a subcontract exceeding the Equal Opportunity Clause. The certification may be submitted either for each subcontract or for all subcontracts during a period (i.e. quarterly, semi-annually, or annually).

Note: The penalty for making false statements in offers is prescribed in 18 U.S.C. Paragraph 1001.

Date: _____

By: _____

Official Address: _____

Title: _____

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we _____

as Principal, and _____
a corporation duly organized under the laws of the State of _____ as Surety are held and firmly
bound unto the **City of New London, 181 State Street, New London, CT 06320**, hereinafter called the "Owner" in the
sum of _____ Dollars (\$ _____), for the payment of which sum
well and truly to be made, the said Principal and Surety, bind ourselves, our heirs, executors, administrators, successors,
and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a bid dated _____ to

NOW THEREFORE, if the Owner shall accept the bid of the Principal and the Principal shall enter into a Contract with the
Owner in accordance with the terms of such bid and give such bond or bonds as may be specified in the bidding or
Contract Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt
payment of labor and material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter
such Contract and give such bond or bonds, if the Principal shall pay to the Owner the difference not to exceed the
penalty hereof between the amount specified in said bid and such larger amount for which the Owner may in good faith
contract with another party to perform the Work covered by said bid, then this obligation shall be null and void, otherwise
to remain in full force and effect.

Signed and sealed this _____ day of _____ 2022.

(Principal) (Seal)

(Title)

(Surety) (Seal)

(Title)

(Witness)

(Witness)

Attorney-in-Fact, State of _____, Power-of-Attorney for person signing for Surety Company must be attached to Bond.

CERTIFICATE AS TO CORPORATE PRINCIPAL

I, _____ certify that I am the _____
_____, of the Corporation named as Principal in the within bond; that _____
_____ who signed the said bond on behalf of the Principal was then the _____
_____ of said corporation; that I know his signature, and his signature thereto is genuine; and
that said bond was duly signed, sealed, and attested to for and in behalf of said corporation by authority of this governing
body.

Affix
_____ Corporate
Seal

Title _____

LABOR AND MATERIAL PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS:

That _____, as Principal

(hereinafter called Principal) and _____
as Surety, (hereinafter called Surety) are held and firmly bound unto _____
_____ as Obligee (hereinafter called Owner), for the use and
benefit of claimants as hereinbelow defined;
in the amount of _____ Dollars (\$
_____) for the payment whereof the Principal and Surety bind themselves, their heirs, executors,
administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Principal has by written agreement dated _____ entered into a Contract with the
owner for _____

_____ which Contract is by reference made a part hereof, and is hereinafter referred to as the Contract.

NOW, THEREFORE, the condition of this obligation is such that, if the said Principal shall promptly pay for all materials
furnished and labor supplied or performed in the prosecution of the work included in and under the aforesaid Contract,
whether or not the material or labor enters into and becomes a component part of the real asset, then this obligation shall
be null and void otherwise it shall remain in full force and effect.

PROVIDED, that any alterations which may be made in the terms of the Contract or in the work to be done under it, or the
giving by the Owner or any other forbearance on the part of either the Owner or the Principal to the other shall not in any
way release the Principal and the Surety or either or any of them, their heirs, executors, administrators, successors or
assigns from their liability hereunder, notice to the Surety for any such alterations, extension or forbearance being hereby
waived.

Any party, whether a subcontractor or otherwise, who furnished materials or supplies or performs labor or services in the
prosecution of the work under said Contract, and who is not paid therefore, may bring a suit on this Bond in the name of
the person suing, prosecute the same to a final judgment and have the execution thereon for such sum as may be justly
due.

IN WITNESS WHEREOF, the above-bounded parties have executed this instrument under their several seals this _____ day of _____, 20____, the name and corporate seal of each corporate party being hereto affixed and these presents signed by its undersigned representative, pursuant to authority of its governing body.

(Corporate Principal)

(Business Address)

Affix
Corporate
Seal

Attest:

_____ By

(Corporate Surety)

Attest:

(Business Address)

Affix
Corporate
Seal

_____ By

Countersigned
by _____

Attorney-in-Fact, State of _____, Power-of- Attorney for person signing for
Surety Company must be attached to Bond.

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS:

That _____ as Principal, hereinafter called Contractor, and _____ as Surety, hereinafter called Surety, are held and firmly bound unto _____ as Obligee, hereinafter called Owner, in the amount of _____ Dollars (\$ _____), for payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Contract has by written agreement dated _____ entered into a Contract with Owner for _____

_____ which Contract is by reference made a part hereof, and is hereinafter referred to as the Contract.

NOW, THEREFORE, the condition of this obligation is such that, if Contractor shall promptly and faithfully perform said Contract, including such remedial work as may be required under the guaranty during the period of guaranty and shall certify in writing that all wages paid under said Contract to any mechanic, laborer or workman were equal to the rates or wages customary or then prevailing for the same trade or occupation in Connecticut, then this obligation shall be null and void, otherwise it shall remain in full force and effect.

The Surety hereby waives notice of any alteration or extension of time made by the Owner.

Whenever Contractor shall be, and declared by Owner to be in default under the Contract, the Owner having performed Owner's obligations thereunder, the Surety may promptly remedy the default or shall promptly:

- (1) Complete the Contract in accordance with its terms and conditions, by another Contractor acceptable to the Owner, said other Contractor to act as an agent for the Surety, or
- (2) Obtain a Bid or Bids for submission to the Owner for completing the Contract in accordance with its terms and conditions, and upon determination by the Owner and Surety of the lowest responsible Bidder, arrange for a Contract as work progresses (even though there should be a default or a succession of defaults under the Contract or Contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the contract price, but not exceeding, including, other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The terms "balance of the contract price" , as used in this paragraph, shall mean the total amount payable by the Owner to the Contractor under the Contract and any amendments thereto, less the amount properly paid by the Owner to the Contractor.

Unless otherwise required by law, any suit under this Bond must be instituted before the expiration of one (1) year from the date on which the guaranty period under the Contract expires.

No right of action shall accrue on this Bond to or for the use of any person or corporation other than the Owner named herein or the heirs, executors, administrators and successors of the Owner.

IN WITNESS WHEREOF, the above-bounded parties have executed this instrument under their several seals this _____ day of _____, 20____, the name and corporate seal of each corporate party being hereto affixed and these presents signed by its undersigned representative, pursuant to authority of its governing body.

No extension of time or other modification of this Bid Bond shall be valid unless agreed in writing by the parties to this Bond.

(Corporate Principal)

Attest:

(Business Address)

By

Affix
Corporate
Seal

(Corporate Surety)

Attest:

(Business Address)

By

Affix
Corporate
Seal

Countersigned
by _____

Attorney-in-Fact, State of _____, Power-of- Attorney for person signing for Surety Company must be attached to Bond.

CERTIFICATE AS TO CORPORATE PRINCIPAL

I, _____ certify that I am the _____ of the Corporation named as Principal in the within bond; that _____ who signed the said bond on behalf of the Principal was then the _____ of said corporation; that I know his signature, and his signature thereto is genuine; and that said bond was duly signed, sealed, and attested to for and in behalf of said corporation by authority of this governing body.

Affix
Corporate
Seal

Title _____

CONTRACT FORMS

CONTRACT FOR SERVICES

THIS AGREEMENT made and entered into this *th* day of **MONTH, 2022**, by and between , hereinafter called “**Contractor**” and the City of New London, 181 State Street, New London, CT 06320, hereinafter called “**City.**”

WHEREAS, the City desires to enter into a contract for the (*purpose*) and the Contractor represents itself as competent and qualified to accomplish the specific requirements of this contract to the satisfaction of the City, therefore this contract is entered into under the following terms and conditions:

1. The Contractor agrees to perform the services described below or in attachments if applicable. Only those attachments specifically referenced in this Contract for Services shall apply. The terms and conditions as contained in this Contract for Services shall take precedence over any conflicting terms as may be attached hereto.
2. **Term of the Contract:** The start date for this Contract shall be **MONTH, 2022** and the completion date of this Contract shall be **MONTH, 2022**, time being of the essence.
3. **Contract Price:** The City shall pay the Contractor for the performance of the Contract in current funds, for the total quantities of work performed for the price of **DOLLAR AMOUNT (\$)**.

Based upon Applications for Payment submitted by the Contractor, the City shall make progress payments on account of the Contract Sum to the Contractor. The period covered by each Application for Payment shall be one calendar month ending on the last day of the month. The City shall make payment to the Contractor within 30 days after the City receives the Application for Payment. With each Application for Payment, the Contractor shall submit the most recent schedule of values, which allocates the Contract Price among the various portions of the Work. The Applications for Payments shall indicate the percentage of completion of each portion of the Work. Such Applications may include requests for payment on account of changes in the Work, but not yet included in Change Orders. Partial payment shall be due Contractor in the amount of 95.0% of the work in place.

Final payment, constituting the entire unpaid balance of the Contract Price, including Change Orders, shall be made by the City to the Contractor no later than 30 days after the Contractor has fully performed the Contract and has provided to the Owner a final Application for Payment.

4. **Contract Documents:** The Contract Documents consist of this Agreement, the Standard Bid and Contract Terms and Conditions, the Instructions to Bidders, the Contractor’s bid as accepted by the City, the General and Special Conditions of the Work, the Technical Specifications, the drawings and all Addenda attached hereto.

The Contract Documents are complementary and what is called for by any one shall be as binding as if called for by all. In the event of any conflict or inconsistency between the provisions of this Agreement and the provisions of any of the other Contract Documents, the provisions of the Agreement shall prevail.

Reference to standard specifications, manuals or codes of any technical society, organization or association, or to the laws or regulations of any governmental authority, whether such reference be specific or by implication, shall mean the edition of the standard specification, manual, code or laws or regulations identified in the reference. In the event a particular edition is not identified, the reference shall mean the latest edition in effect at the time of receipt of the bid. However, no provision of any referenced standard specification, manual or code (whether or not specifically incorporated by reference in the Contract Documents) shall change the duties and responsibilities of the City, the Contractor or any of their consultants, agents or employees from those set forth in the Contract Documents.

5. **Obligations And Liability Of The Contractor:** The Contractor shall do all the work and perform and furnish all the labor, services, materials, equipment, plant, machinery, apparatus, appliances, tools, supplies and all other things (except as otherwise expressly provided herein) necessary and as herein specified for the proper performance and completion of the Work in the manner and within the time hereinafter specified, in strict accordance with the Drawings, Specifications and other Contract Documents, in conformity with the directions and to the satisfaction of the City, and at the prices herein agreed upon therefor.

All parts of the Work and all fixtures, equipment, apparatus and other items indicated on the Drawings and not mentioned in the Specifications, or vice versa, and all work and material usual and necessary to make the Work complete in all its parts, including all incidental work necessary to make it complete and satisfactory and ready for use and operation, whether

or not they are indicated on the Drawings or mentioned in the Specifications, shall be furnished and executed the same as if they were called for both by the Drawings and by the Specifications.

The Contractor shall coordinate his operations with those of any other contractors who may be employed on other work of the City, shall avoid interference therewith, and shall cooperate in the arrangements for storage of materials and equipment.

The Contractor shall conduct his work so as to interfere as little as possible with private business and public travel. Wherever and whenever necessary or required, he shall maintain fences, furnish watchmen, maintain lights, and take such other precaution as may be necessary to protect life and property.

The Contractor shall indemnify and save harmless the City and its officers, agents, servants and employees, from and against any and all claims, demands, suits, proceedings, liabilities, judgments, awards, losses, damages, costs and expenses, including attorneys' fees, on account of bodily injury, sickness, disease or death sustained by any person or persons or injury or damage to or destruction of any property, directly or indirectly arising out of, relating to or in connection with the Work, whether or not due to or claimed to be due in whole or in part to the active, passive or concurrent negligence or fault of the Contractor, his officers, agents, servants or employees, any of his subcontractors, the City or any of their respective officers, agents, servants or employees and/or any other person or persons, and whether or not such claims, demands, suits or proceedings are just, unjust, groundless, false or fraudulent; and the Contractor shall and does hereby assume and agrees to pay for the defense of all such claims, demands, suits and proceedings, provided, however, that the Contractor shall not be required to indemnify the City, its officers, agents, servants, or employees, against any such damages occasioned solely by acts or omissions of the owner other than supervisory acts or omissions of the City in the Work.

The Contractor shall have complete responsibility for the Work and the protection thereof, and for preventing injuries to persons and damage to the Work and property and utilities on or about the Work, until final completion and final acceptance thereof. He shall in no way be relieved of his responsibility by any right of the City to give permission or directions relating to any part of the Work, by any such permission or directions given, or by failure of the City to give such permission or directions. The Contractor shall bear all costs, expenses, losses and damages on account of the quantity or character of the Work or the nature of the land (including but not limited to subsurface conditions) in or under or on which the Work is done being different from that indicated or shown in the Contract Documents or from what was estimated or expected, or on account of the weather, elements, or other causes unless information regarding such condition(s) was known and not disclosed by the City prior to Contractor commencing its work.

The Contractor shall conduct his operations so as not to damage existing structures or work installed either by him or by other contractors. In case of any such damage resulting from his operations, he shall repair and make good as new the damaged portions at his own expense with the consent of the damaged party. In the event that consent is not given, the Contractor shall continue liable for the damage caused.

The Contractor shall be as fully responsible to the City for the acts and omissions of his subcontractors, their officers, agents, servants and employees as he is for his own acts and omissions and those of his own officers, agents, servants and employees.

Should the Contractor sustain any loss, damage or delay through any act or omission of any other contractor or any subcontractor of any such other contractor, the Contractor shall have no claim against the City therefor, other than for an extension of time, but shall have recourse solely to such other contractor or subcontractor.

If any other contractor or any subcontractor of any such other contractor shall suffer or claim to have suffered loss, damage or delay by reason of the acts or omissions of the Contractor or of any of his subcontractors, the Contractor agrees to assume the defense against any such claim and to reimburse such other contractor or subcontractor for such loss or damage.

The Contractor agrees to and does hereby indemnify and save harmless the City from and against any and all claims by such other contractors or subcontractors alleging such loss, damage or delay and from and against any and all claims, demands, suits, proceedings, liabilities, judgments, awards, losses, damages, costs and expenses, including attorneys' fees, arising out of, relating to or resulting from such claims.

The Contractor shall promptly pay all federal, state and local taxes which may be assessed against him in connection with the Work or his operations under this Agreement and/or the other Contract Documents, including, but not limited to, taxes attributable to the purchase of material and equipment, to the performance of services, and the employment of persons in the prosecution of the Work.

Because (i) anticipated damages hereunder are uncertain in amount and difficult to prove, (ii) the parties hereto wish to liquidate said damages in advance, and (iii) monies paid pursuant to this Agreement are not greatly disproportionate to the damage reasonably anticipated in the event of default, it is further agreed that if Contractor shall not complete all of its obligations under this contract within the time period and by the completion date specified in Paragraph 2 herein, Contractor shall pay liquidated damages to the City at a rate of \$___800___ per day for every day beyond the completion date until such time as the Contractor finally completes all of its obligations under this Contract.

6. Supervision Of Work: The Contractor shall be solely responsible for supervision of the Work, shall give the work the constant attention necessary to ensure the expeditious and orderly progress thereof, and shall cooperate with the City, its officers, agents or employees in every possible way.

At all times, the Contractor shall have as his agent on the Work a competent superintendent capable of reading and thoroughly understanding the Drawings and Specifications, with full authority to execute the directions of the Engineer without delay and to supply promptly such labor, services, materials, equipment, plant, apparatus, appliances, tools, supplies and other items as may be required. Such superintendent shall not be removed from the Work without the prior written consent of the City. If, in the opinion of the City, the superintendent or any successor proves incompetent, the Contractor shall replace him with another person approved by the City; such approval, however, shall in no way relieve or diminish the Contractor's responsibility for supervision of the Work.

Whenever the Contractor or his agent or superintendent is not present on any part of the Work where it may be necessary to give directions or instructions with respect to such work, such directions or instructions may be given by the City to and shall be received and obeyed by the foreman or any other person in charge of the particular work involved.

7. Insurance: The Contractor shall procure and maintain insurance of the types specified below, and to the limits for this insurance specified in the Standard Bid and Contract Terms and Conditions and the City of New London Code of Ordinances, Article IV., Section 2-71. All insurance shall be obtained from companies satisfactory to the City.

Insurance shall be in such forms as will protect the Contractor from all claims and liability for damages for bodily and personal injury, including accidental death, and for property damage, which may arise from operations under the Contract, whether such operations be by himself, his subcontractors, or by anyone directly or indirectly employed or engaged by him.

The following types of insurance shall be provided before starting and until final completion and acceptance of the Work and expiration of the guarantee period provided for in the Agreement.

- a. Workmen's Compensation and Employer's Liability Insurance.
- b. Bodily Injury Insurance for operations and completed operations and Contractor's Protective Bodily Injury Insurance.
- c. Property Damage Insurance for operations and completed operations and Contractor's Protective Property Damage Insurance, each including coverage for injury to or destruction of wires or pipes and similar property and appurtenant apparatus and the collapse of or structural injury to any building or structure except those on which work under the Contract is being done. Blasting and explosion coverage shall be obtained if there is a need for blasting under the Contract, and no blasting shall be performed until such insurance has been secured.
- d. Bodily Injury Insurance covering the operation of all motor vehicles owned by the Contractor.
- e. Personal Injury Insurance to cover claims for personal injury and including claims brought by employees.
- f. Property Damage Insurance covering the operation of all motor vehicles owned by the Contractor.
- g. Insurance to cover bodily injuries and property damage resulting from the use of motor vehicles not owned by the Contractor, while such vehicles are being operated in connection with the prosecution of the Work.

- h. Contractual Liability Insurance covering the liability assumed by the Contractor under the fifth paragraph of that subsection titled "Obligations and Liability of Contractor" of this Agreement.
- i. Owner's Protective Liability and Property Damage Insurance to protect the City and any Engineer against claims for Property damage and for bodily injuries, including accidental death, caused by the operations of the Contractor or his subcontractors on the Work. The policy shall indicate the City and any Engineer as the named insured. A copy of the policy shall be furnished to the City and a Certificate of Insurance shall be furnished to any Engineer.

Any of the above coverages written on a claims made form have an Extended Reporting Period of two years from the termination of the contract. If the policy is replaced and/or the retroactive date is changed, then the expiring policy must be endorsed to extend the reporting period for claims for the policy in effect during the contract for two (2) years from the completion date.

All policies shall be so written that the owner will be notified in writing of cancellation or restrictive amendment at least 30 days prior to the effective date of such cancellation or amendment.

Certificates from the Contractor's insurance carriers stating the coverages provided, the limits of liability, and expiration dates shall be filed in triplicate with the Engineer before operations are begun. Such certificates shall be on the form furnished by the Engineer.

The CITY requires that the aggregate limits be maintained by the CONSULTANT as required. It is the responsibility of the CONSULTANT or his representative to notify the CITY if ever or whenever claims reduce the General Aggregate below \$1,000,000.

Renewal certificates must be furnished by the Contractor prior to the expiration date of any of the initial insurances.

No insurance required or furnished hereunder shall in any way relieve the Contractor of or diminish any of his responsibilities, obligations and liabilities under the Contract.

Contractor shall agree to maintain in force during the contract the following minimum coverages and shall name the City of New London as an Additional Insured on a primary and non-contributory basis to all policies, except Workers Compensation. All policies should also include a Waiver of Subrogation.

Insurance shall be written with Carriers approved in the State of Connecticut and with a minimum AM Best's Rating of "A- VIII". In addition, all Carriers are subject to approval by City of New London.

8. Contract: This Agreement, which includes all the Contract Document elements listed in paragraph 1 above, forms the Contract between the parties identified in the heading of this document. In the event that any provision of the Contract conflicts with any other provision of this Contract, the decision of the City will be final.

9. Funding and Fiscal Year Appropriations: Appropriations for expenditures by the City and authorization to spend for a particular purpose are ordinarily made on a fiscal year basis. The fiscal year of the City is the twelve (12) month period ending June 30 of each year. The obligations of the City under this Contract for the present or any subsequent fiscal year following the fiscal year in which this Contract is executed are subject to the appropriation of funds sufficient to discharge the City's obligation, which accrues in this or any subsequent fiscal year. In the absence of such appropriation or authorization, this Contract shall be terminated immediately upon the Contractor's receipt of notice to said effect without liability for damages, penalties or other charges arising from early termination. Expenditures for Contracted services that will extend beyond a single fiscal year shall not exceed in any fiscal year the amount appropriated and authorized for said fiscal year. The Contractor's yearly costs, as contained herein, may not exceed the amount appropriated for said year.

10. Termination: The Contract may be terminated without cause by either party by giving written notice to the other at least thirty (30) calendar days prior to the effective date of termination stated in the notice. If Contractor fails to fulfill his obligations, the City may terminate this Contract by giving written notice to the Contractor at least seven (7) calendar days before the effective date of termination stated in the notice. The notice shall state the circumstances of the alleged breach and may state a period during which the alleged breach may be cured, which cure shall be subject to approval by the City.

11. Obligations in Event of Termination:

A. Upon termination, all finished or unfinished documents, data, studies, and reports prepared by the Contractor pursuant to this Contract, shall become the property of the City.

B. The City shall promptly pay the Contractor for all services performed to the effective date of termination, subject to indemnification provisions of Paragraph 5 hereof and subject to offset of sums due the Contractor against sums owed by the Contractor to the City.

12. Record keeping, Audit, and Inspection of Records: The Contractor shall maintain books, records and other compilations of data pertaining to the requirements of the Contract to the extent and in such detail as shall properly substantiate claims for payment under the Contract. All such records shall be kept for a period of six (6) years or for such longer period as is specified herein. All retention periods start on the first day after final payment under this Contract. If any litigation, claim, negotiation, audit or other action involving the records is commenced prior to the expiration of the applicable retention period, all records shall be retained until completion of the action and resolution of all issues resulting therefrom, or until the end of the applicable retention period, whichever is later. The Federal grantor agency, the State Auditor, the City, or any of their duly authorized representatives or designees shall have the right at reasonable times and upon reasonable notice, to examine and copy, at reasonable expense, the books, records, and other compilations of data of the Contractor which pertain to the provisions and requirements of this Contract. Such access shall include on-site audits, review, and copying of records.

13. Publicity, Publication, Reproduction and Use of Contract Products or Materials: Unless provided otherwise by law or the City, title and possession of all data, reports, programs, software, equipment, furnishings, and any other documentation or product paid for with City funds shall vest with the City at the termination of the Contract. The Contractor shall at all times obtain the prior written approval of the City before it, any of its officers, agents, employees or subcontractors, either during or after termination of the Contract, makes any statement bearing on the work performed or data collected under this Contract to the press or issues any material for publication through any medium of communication. If the Contractor, or any of its subcontractors, publishes a work dealing with any aspect of performance under the Contract, or of the results and accomplishments attained in such performance, the City shall have a royalty-free non-exclusive and irrevocable license to reproduce, publish or otherwise use and to authorize others to use the publication. The Contractor shall use reasonable means to inform the public that the City provides financial support for its operations and services by explicitly stating on publicity material, stationery, posters and other written materials, and on its premises the following: "This program is supported in part (in full) by the City of New London."

14. Assignment by Contractor and Subcontracting: The Contractor shall not assign or in any way transfer any interest in this Contract without the prior written consent of the City, nor shall he subcontract any services without the prior written approval of the City.

15. Connecticut Law: It is agreed that this contract shall be governed by, construed, and enforced in accordance with the internal laws of the State of Connecticut.

16. Venue: In the event of litigation, the parties do agree to be contractually bound to submit themselves to the personal jurisdiction of the state courts of Connecticut. The venue for any court proceeding shall be in the Superior Court for the Judicial District for New London at New London, Connecticut.

17. Waiver of Jury Trial: CONTRACTOR HEREBY EXPRESSLY WAIVES ANY AND ALL RIGHTS IT MAY HAVE TO TRIAL BY JURY OF ANY CLAIM, DEMAND, ACTION OR CAUSE OF ACTION (1) ARISING UNDER THIS AGREEMENT OR ANY OTHER INSTRUMENT, DOCUMENT OR AGREEMENT EXECUTED OR DELIVERED IN CONNECTION HERewith, OR (2) IN ANY WAY CONNECTED WITH OR RELATED OR INCIDENTAL TO THE DEALINGS OF THE PARTIES HERETO OR ANY OF THEM WITH RESPECT TO THIS AGREEMENT OR ANY OTHER INSTRUMENT, DOCUMENT OR AGREEMENT EXECUTED OR DELIVERED IN CONNECTION HERewith, OR THE TRANSACTIONS RELATED HERETO OR THERETO, IN EACH CASE WHETHER NOW EXISTING OR HEREAFTER ARISING, AND WHETHER SOUNDING IN CONTRACT OR TORT OR OTHERWISE; AND CONTRACTOR HEREBY AGREES AND CONSENTS THAT ANY SUCH CLAIM, DEMAND, ACTION OR CAUSE OF ACTION SHALL BE DECIDED BY COURT TRIAL WITHOUT A JURY, AND THE CITY MAY FILE AN ORIGINAL COUNTERPART OR A COPY OF THIS SECTION WITH ANY COURT AS WRITTEN EVIDENCE OF CONTRACTOR'S CONSENT TO THE WAIVER OF ITS RIGHT TO TRIAL BY JURY.

18. Nondiscrimination and affirmative action provisions, nondiscrimination provisions regarding sexual orientation, Executive Order Number Three and guidelines and rules, Executive Order Number Seventeen, Executive Order Number Sixteen and sexual harassment policy:

For the purposes of this article, the word “contractor” is substituted for and has the same meaning and effect as if it read “Contractor’s name.” Section A of this article is inserted in connection with subsection (a) of Section 4a-60 of the General Statutes of Connecticut, as revised. Section B of this article is inserted in connection with subsection (a) of Section 4a-60a of the General Statutes of Connecticut, as revised.

A. (a) For the purposes of this section, “minority business enterprise” means any small contractor or supplier of materials fifty-one percent or more of the capital stock, if any, or assets of which is owned by a person or persons: (1) who are active in the daily affairs of the enterprise, (2) who have the power to direct the management and policies of the enterprise, and (3) who are members of a minority, as such term is defined in subsection (a) of Conn. Gen. Stat. Section 32-9n; and “good faith” means that degree of diligence which a reasonable person would exercise in the performance of legal duties and obligations. “Good faith efforts” shall include, but not be limited to, those reasonable initial efforts necessary to comply with statutory or regulatory requirements and additional or substituted efforts when it is determined that such initial efforts will not be sufficient to comply with such requirements.

For the purposes of this section, “Commission” means the Commission on Human Rights and Opportunities.

For the purposes of this section, “public works contract” means any agreement between any individual, firm, or corporation and the State or any political subdivision of the State other than a municipality for construction, rehabilitation, conversion, extension, demolition or repair of a public building, highway or other changes or improvements in real property, or which is financed in whole or in part by the State, including, but not limited to, matching expenditures, grants, loans, insurance, or guarantees.

(b) (1) The contractor agrees and warrants that in the performance of the contract such contractor will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, religious creed, age, marital status, national origin, ancestry, sex, mental retardation, or physical disability, including, but not limited to, blindness, unless it is shown by such contractor that such disability prevents performance of the work involved, in any manner prohibited by the laws of the United States or of the State of Connecticut. The contractor further agrees to take affirmative action to insure that applicants with job-related qualifications are employed and that employees are treated when employed without regard to their race, color, religious creed, age, marital status, national origin, ancestry, sex, mental retardation, or physical disability, including, but not limited to, blindness, unless it is shown by such contractor that such disability prevents performance of the work involved; (2) the contractor agrees, in all solicitations or advertisements for employees placed by or on behalf of the contractor, to state that it is an “affirmative action-equal opportunity employer” in accordance with regulations adopted by the Commission; (3) the contractor agrees to provide each labor union or representative of workers with which such contractor has a collective bargaining agreement or other contract or understanding and each vendor with which such contractor has a contract or understanding, a notice to be provided by the Commission advising the labor union or workers’ representative of the contractor’s commitments under this section, and to post copies of the notice in conspicuous places available to employees and applicants for employment; (4) the contractor agrees to comply with each provision of this section and Conn. Gen. Stat. Sections 46a-68e and 46a-68f and with each regulation or relevant order issued by said commission pursuant to Conn. Gen. Stat. Sections 46a-56, 46a-68e, and 46a-68f; (5) the contractor agrees to provide the Commission on Human Rights and Opportunities with such information requested by the Commission, and permit access to pertinent books, records, and accounts concerning the employment practices and procedures of the contractor as they relate to the provisions of this section and Conn. Gen. Stat. Section 46a-56. If the contract is a public works contract, the contractor agrees and warrants that he will make good faith efforts to employ minority business enterprises as subcontractors and suppliers of materials on such public works project.

(c) Determination of the contractor’s good faith efforts shall include, but shall not be limited to, the following factors: The contractor’s employment and subcontracting policies, patterns and practices; affirmative advertising, recruitment and training; technical assistance activities and such other reasonable activities or efforts as the Commission may prescribe that are designed to ensure the participation of minority business enterprises in public works projects.

(d) The contractor shall develop and maintain adequate documentation, in a manner prescribed by the Commission, of its good faith efforts.

(e) The contractor shall include the provisions of subsection (b) of this section in every subcontract or purchase order entered into in order to fulfill any obligation of a contract with the State and such provisions shall be binding on a subcontractor, vendor, or manufacturer unless exempted by regulations or orders of the Commission. The contractor shall take such action with respect to any such subcontract or purchase order as the Commission may direct as a means of enforcing such provisions including sanctions for noncompliance in accordance with Conn. Gen. Stat. Section 46a-56; provided, if such contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result

of such direction by the Commission, the contractor may request the State of Connecticut to enter into any such litigation or negotiation prior thereto to protect the interests of the State and the State may so enter.

(f) The contractor agrees to comply with the regulations referred to in this section as they exist on the date of this contract and as they may be adopted or amended from time to time during the term of this contract and any amendments thereto.

B. (a) (1) The contractor agrees and warrants that in the performance of the contract such contractor will not discriminate or permit discrimination against any person or group of persons on the grounds of sexual orientation, in any manner prohibited by the laws of the United States or of the State of Connecticut, and that employees are treated when employed without regard to their sexual orientation; (2) the contractor agrees to provide each labor union or representative of workers with which such contractor has a collective bargaining agreement or other contract or understanding and each vendor with which such contractor has a contract or understanding, a notice to be provided by the Commission on Human Rights and Opportunities advising the labor union or workers' representative of the contractor's commitments under this section, and to post copies of the notice in conspicuous places available to employees and applicants for employment; (3) the contractor agrees to comply with each provision of this section and with each regulation or relevant order issued by said commission pursuant to Section 46a-56 of the Connecticut General Statutes; (4) the contractor agrees to provide the Commission on Human Rights and Opportunities with such information requested by the Commission, and permit access to pertinent books, records, and accounts concerning the employment practices and procedures of the contractor that relate to the provisions of this section and Section 46a-56 of the Connecticut General Statutes.

(b) The contractor shall include the provisions of subsection (a) of this section in every subcontract or purchase order entered into in order to fulfill any obligation of a contract with the State and such provisions shall be binding on a subcontractor, vendor, or manufacturer unless exempted by regulations or orders of the Commission. The contractor shall take such action with respect to any such subcontract or purchase order as the Commission may direct as a means of enforcing such provisions including sanctions for noncompliance in accordance with Section 46a-56 of the Connecticut General Statutes; provided, if such contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the Commission, the contractor may request the State of Connecticut to enter into any such litigation or negotiation prior thereto to protect the interests of the State and the State may so enter.

(c) The contractor agrees to comply with the regulations referred to in this section as they exist on the date of this contract and as they may be adopted or amended from time to time during the term of this contract and any amendments thereto.

C. This contract is subject to the provisions of Executive Order No. Three of Governor Thomas J. Meskill promulgated June 16, 1971, and, as such, this contract may be cancelled, terminated, or suspended by the State Labor Commissioner for violation of or noncompliance with said Executive Order No. Three, or any State or federal law concerning nondiscrimination, notwithstanding that the State Labor Commissioner is not a party to this contract. The parties to this contract, as part of the consideration hereof, agree that said Executive Order No. Three is incorporated herein by reference and made a part hereof. The parties agree to abide by said Executive Order and agree that the State Labor Commissioner shall have continuing jurisdiction in respect to contract performance in regard to nondiscrimination, until the contract is completed or terminated prior to completion.

The contractor agrees, as part consideration hereof, that this contract is subject to the Guidelines and Rules issued by the State Labor Commissioner to implement Executive Order No. Three, and that he will not discriminate in his employment practices or policies, will file all reports as required, and will fully cooperate with the State of Connecticut and the State Labor Commissioner.

D. This contract is subject to the provisions of Executive Order No. Seventeen of Governor Thomas J. Meskill promulgated February 15, 1973, and, as such, this contract may be cancelled, terminated, or suspended by the contracting agency or the State Labor Commissioner for violation of or noncompliance with said Executive Order No. Seventeen, notwithstanding that the State Labor Commissioner may not be a party to this contract. The parties to this contract, as part of the consideration hereof, agree that Executive Order No. Seventeen is incorporated herein by reference and made a part hereof. The parties agree to abide by said Executive Order and agree that the contracting agency and the State Labor Commissioner shall have joint and several continuing jurisdiction in respect to contract performance in regard to listing all employment openings with the Connecticut State Employment Service.

E. This contract is subject to the provisions of Executive Order No. Sixteen of Governor John G. Rowland promulgated August 4, 1999, and, as such, the contract may be canceled, terminated, or suspended by the State for violation of or noncompliance with said Executive Order No. Sixteen. Executive Order No. Sixteen is attached hereto and made a part hereof. The parties agree to comply with such executive order. In addition, the contractor agrees to include a copy of

Executive Order No. Sixteen, and the requirement to comply with said executive order, in all contracts with its contractors, subcontractors, consultants, sub-consultants, and vendors.

F. This contract is subject to the provisions of the City of New London Sexual Harassment Policy ("Policy") and, as such, the contract may be canceled, terminated, or suspended by the City in the event that the contractor, its employees, contractors, subcontractors, consultants, sub-consultants, or vendors engages in behavior prohibited by the provisions of the Policy (a copy of the Policy is attached hereto). The contractor agrees to include a copy of the Policy, and the requirement to prevent behavior as defined in such Policy, in all contracts with its contractors, subcontractors, consultants, sub-consultants, and vendors.

19. Force Majeure: Neither party shall be liable to the other or be deemed to be in breach of this Contract for any failure or delay in rendering performance arising out of causes beyond its reasonable control and without its fault or negligence. Such causes may include, but are not limited to, acts of God or of a public enemy, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, or unusually severe weather. Dates or times of performance shall be extended to the extent of delays excused by this section, provided that the party whose performance is affected notifies the other promptly of the existence and nature of such delay.

20. Compliance with Laws and Indemnification of the City of New London: The Contractor shall comply with all applicable laws, rules, regulations, ordinances, orders or requirements of the State of Connecticut and any governmental authority relating to the delivery of the services specified in this Contract. The City may require the Contractor to pay fines, penalties, and damages that may arise out of or may be imposed because of, the Contractor's breach or failure to comply with the provisions of this Contract. Unless otherwise provided by law the Contractor shall indemnify and hold harmless the City, its agents, officers and employees against any and all liability, loss, damages, penalties, costs or expenses for personal injury or damage to real or tangible personal property which the City may sustain, incur or be required to pay resulting from, arising out of, or in connection with the services performed or delivered under this Contract by reason of acts, inactions, omissions, negligence, reckless or intentional misconduct of the Contractor, its agent(s), officers, employees or subcontractors; provided that the Contractor is notified of any claim within a reasonable time after the City becomes aware of it, and the Contractor is afforded an opportunity to participate in the defense of such claim. In such event, no negotiated settlement agreement shall be binding on the Contractor without the Contractor's concurrence.

21. Waivers And Severability: All conditions, covenants, duties and obligations contained in this Contract can be waived only by written agreement. Forbearance or indulgence in any form or manner by a party shall not be construed as a waiver, nor in any way limit the legal or equitable remedies available to that party. A waiver or breach of any term, condition, or covenant by a party shall not constitute a waiver or breach of any other term, condition or covenant. If any court of competent jurisdiction declares a provision of this Agreement invalid, illegal, or otherwise unenforceable, the remaining provisions of the Agreement shall remain in full force and effect.

22. Amendments: No amendment to this Contract shall be effective unless it is signed by authorized representatives of both parties and complies with all other regulations and requirements of law.

23. Entire Agreement: The parties understand and agree that this Contract and attachments (if any), which includes all Contract Documents, supersede all other verbal and written agreements and negotiations by the parties relating to the services under this Contract.

24. Notice: Unless otherwise specified in an attachment hereto, any notice hereunder shall be in writing addressed to the persons and addresses indicated in the caption of this Contract on page 1.

IN WITNESS WHEREOF, the parties hereto have caused this AGREEMENT to be executed in two (2) original copies on the day and year first above written.

OWNER:

CONTRACTOR:

Michael Passero
Its Mayor

Its Duly Authorized Agent

Approved as to form:

Jeffrey T. Londregan, Esq., Director of Law

Date Signed _____

NOTICE

TO ALL CONTRACTING AGENCIES

Please be advised that Connecticut General Statutes Section 31-53, requires the contracting agency to certify to the Department of Labor, the total dollar amount of work to be done in connection with such public works project, regardless of whether such project consists of one or more contracts.

Please find the attached “Contracting Agency Certification Form” to be completed and returned to the Department of Labor, Wage and Workplace Standards Division, Public Contract Compliance Unit.

Inquiries can be directed to 860.263.6790.



CONNECTICUT DEPARTMENT OF LABOR
WAGE AND WORKPLACE STANDARDS DIVISION

Contracting Agency Certification Form

I, _____, acting in my official capacity as _____,
Authorized Representative Title

for _____, located at _____,
Contracting Agency Address

do hereby certify that the total dollar amount of work to be done in connection with

_____, located at _____,
Project name and number Address

shall be \$_____, which includes all work, regardless of whether such project
contains of one or more contracts.

Contractor Information

Name: _____

Address: _____

Authorized Representative: _____

Approximate Starting Date: _____

Approximate Completion Date: _____

Signature

Date

Return to:

Connecticut Department of Labor
Wage & Workplace Standards Division
200 Folly Brook Blvd.
Wethersfield, CT 06109

Rate Schedule Issued (Date): _____

CONNECTICUT DEPARTMENT OF LABOR
WAGE AND WORKPLACE STANDARDS DIVISION

CONTRACTORS WAGE CERTIFICATION FORM
Construction Manager at Risk/General Contractor/Prime Contractor

I, _____ of _____
Officer, Owner, Authorized Rep. Company Name

do hereby certify that the _____
Company Name

Street

City

and all of its subcontractors will pay all workers on the

Project Name and Number

Street and City

the wages as listed in the schedule of prevailing rates required for such project (a copy of which is attached hereto).

Signed

Subscribed and sworn to before me this _____ day of _____, _____.

Notary Public

Return to:
Connecticut Department of Labor
Wage & Workplace Standards Division
200 Folly Brook Blvd.
Wethersfield, CT 06109

Rate Schedule Issued (Date): _____

**Connecticut Department of Labor
Wage and Workplace Standards Division
FOOTNOTES**

⇒ Please Note: If the “Benefits” listed on the schedule for the following occupations includes a letter(s) (+ a or + a+b for instance), refer to the information below.

Benefits to be paid at the appropriate prevailing wage rate for the listed occupation.

If the “Benefits” section for the occupation lists only a dollar amount, disregard the information below.

Bricklayers, Cement Masons, Cement Finishers, Concrete Finishers, Stone Masons
(Building Construction) and
(Residential- Hartford, Middlesex, New Haven, New London and Tolland Counties)

- a. Paid Holiday: Employees shall receive 4 hours for Christmas Eve holiday provided the employee works the regularly scheduled day before and after the holiday. Employers may schedule work on Christmas Eve and employees shall receive pay for actual hours worked in addition to holiday pay.

Elevator Constructors: Mechanics

- a. Paid Holidays: New Year’s Day, Memorial Day, Independence Day, Labor Day, Veterans’ Day, Thanksgiving Day, Christmas Day, plus the Friday after Thanksgiving.
- b. Vacation: Employer contributes 8% of basic hourly rate for 5 years or more of service or 6% of basic hourly rate for 6 months to 5 years of service as vacation pay credit.

Glaziers

- a. Paid Holidays: Labor Day and Christmas Day.

Power Equipment Operators
(Heavy and Highway Construction & Building Construction)

- a. Paid Holidays: New Year’s Day, Good Friday, Memorial day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day, provided the employee works 3 days during the week in which the holiday falls, if scheduled, and if scheduled, the working day before and the working day after the holiday. Holidays falling on Saturday may be observed on Saturday, or if the employer so elects, on the preceding Friday.

Ironworkers

- a. Paid Holiday: Labor Day provided employee has been on the payroll for the 5 consecutive work days prior to Labor Day.

Laborers (Tunnel Construction)

- a. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day. No employee shall be eligible for holiday pay when he fails, without cause, to work the regular work day preceding the holiday or the regular work day following the holiday.

Roofers

- a. Paid Holidays: July 4th, Labor Day, and Christmas Day provided the employee is employed 15 days prior to the holiday.

Sprinkler Fitters

- a. Paid Holidays: Memorial Day, July 4th, Labor Day, Thanksgiving Day and Christmas Day, provided the employee has been in the employment of a contractor 20 working days prior to any such paid holiday.

Truck Drivers

(Heavy and Highway Construction & Building Construction)

- a. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Christmas day, and Good Friday, provided the employee has at least 31 calendar days of service and works the last scheduled day before and the first scheduled day after the holiday, unless excused.

Information Bulletin *Occupational Classifications*

The Connecticut Department of Labor has the responsibility to properly determine "job classification" on prevailing wage projects covered under C.G.S. Section 31-53(d).

Note: This information is intended to provide a sample of some occupational classifications for guidance purposes only. It is not an all-inclusive list of each occupation's duties. This list is being provided only to highlight some areas where a contractor may be unclear regarding the proper classification. If unsure, the employer should seek guidelines for CTDOL.

Below are additional clarifications of specific job duties performed for certain classifications:

- **ASBESTOS WORKERS**

Applies all insulating materials, protective coverings, coatings and finishes to all types of mechanical systems.

- **ASBESTOS INSULATOR**

Handle, install apply, fabricate, distribute, prepare, alter, repair, dismantle, heat and frost insulation, including penetration and fire stopping work on all penetration fire stop systems.

- **BOILERMAKERS**

Erects hydro plants, incomplete vessels, steel stacks, storage tanks for water, fuel, etc. Builds incomplete boilers, repairs heat exchanges and steam generators.

- **BRICKLAYERS, CEMENT MASONS, CEMENT FINISHERS, MARBLE MASONS, PLASTERERS, STONE MASONS, PLASTERERS. STONE MASONS, TERRAZZO WORKERS, TILE SETTERS**

Lays building materials such as brick, structural tile and concrete cinder, glass, gypsum, terra cotta block. Cuts, tools and sets marble, sets stone, finishes concrete, applies decorative steel, aluminum and plastic tile, applies cements, sand, pigment and marble chips to floors, stairways, etc.

- **CARPENTERS, MILLWRIGHTS. PILEDRIVERMEN. LATHERS. RESILEINT FLOOR LAYERS, DOCK BUILDERS, DIKERS, DIVER TENDERS**

Constructs, erects, installs and repairs structures and fixtures of wood, plywood and wallboard. Installs, assembles, dismantles, moves industrial machinery. Drives piling into ground to provide foundations for structures such as buildings and bridges, retaining walls for earth embankments, such as cofferdams. Fastens wooden, metal or rockboard lath to walls, ceilings and partitions of buildings, acoustical tile layer, concrete form builder. Applies firestopping materials on fire resistive joint systems only. Installation of curtain/window walls only where attached to wood or metal studs. Installation of insulated material of all types whether blown, nailed or attached in other ways to walls, ceilings and floors of buildings. Assembly and installation of modular furniture/furniture systems. Free-standing furniture is not covered. This includes free standing: student chairs, study top desks, book box desks, computer furniture, dictionary stand, atlas stand, wood shelving, two-position information access station, file cabinets, storage cabinets, tables, etc.

- **LABORER, CLEANING**

- The clean up of any construction debris and the general (heavy/light) cleaning, including sweeping, wash down, mopping, wiping of the construction facility and its furniture, washing, polishing, and dusting.

- **DELIVERY PERSONNEL**

- If delivery of supplies/building materials is to one common point and stockpiled there, prevailing wages are not required. If the delivery personnel are involved in the distribution of the material to multiple locations within the construction site then they would have to be paid prevailing wages for the type of work performed: laborer, equipment operator, electrician, ironworker, plumber, etc.

- An example of this would be where delivery of drywall is made to a building and the delivery personnel distribute the drywall from one "stockpile" location to further sub-locations on each floor. Distribution of material around a construction site is the job of a laborer or tradesman, and not a delivery personnel.

- **ELECTRICIANS**

Install, erect, maintenance, alteration or repair of any wire, cable, conduit, etc., which generates, transforms, transmits or uses electrical energy for light, heat, power or other purposes, including the Installation or maintenance of telecommunication, LAN wiring or computer equipment, and low voltage wiring. ****License required per Connecticut General Statutes: E-1,2 L-5,6 C-5,6 T-1,2 L-1,2 V-1,2,7,8,9.***

- **ELEVATOR CONSTRUCTORS**

Install, erect, maintenance and repair of all types of elevators, escalators, dumb waiters and moving walks. **License required by Connecticut General Statutes: R-1,2,5,6.*

- **FORK LIFT OPERATOR**

Laborers Group 4) Mason Tenders - operates forklift solely to assist a mason to a maximum height of nine (9) feet only.

Power Equipment Operator Group 9 - operates forklift to assist any trade, and to assist a mason to a height over nine (9) feet.

- **GLAZIERS**

Glazing wood and metal sash, doors, partitions, and 2 story aluminum storefronts. Installs glass windows, skylights, store fronts and display cases or surfaces such as building fronts, interior walls, ceilings and table tops and metal store fronts. Installation of aluminum window walls and curtain walls is the "joint" work of glaziers and ironworkers, which require equal composite workforce.

- **IRONWORKERS**

Erection, installation and placement of structural steel, precast concrete, miscellaneous iron, ornamental iron, metal curtain wall, rigging and reinforcing steel. Handling, sorting, and installation of reinforcing steel (rebar). Metal bridge rail (traffic), metal bridge handrail, and decorative security fence installation. Installation of aluminum window walls and curtain walls is the "joint" work of glaziers and ironworkers which require equal composite workforce.

- **INSULATOR**

- Installing fire stopping systems/materials for "Penetration Firestop Systems": transit to cables, electrical conduits, insulated pipes, sprinkler pipe penetrations, ductwork behind radiation, electrical cable trays, fire rated pipe penetrations, natural polypropylene, HVAC ducts, plumbing bare metal, telephone and communication wires, and boiler room ceilings.

- **LABORERS**

Acetylene burners, asphalt rakers, chain saw operators, concrete and power buggy operator, concrete saw operator, fence and guard rail erector (except metal bridge rail (traffic), decorative security fence (non-metal).

installation.), hand operated concrete vibrator operator, mason tenders, pipelayers (installation of storm drainage or sewage lines on the street only), pneumatic drill operator, pneumatic gas and electric drill operator, powermen and wagon drill operator, air track operator, block paver, curb setters, blasters, concrete spreaders.

- **PAINTERS**

Maintenance, preparation, cleaning, blasting (water and sand, etc.), painting or application of any protective coatings of every description on all bridges and appurtenances of highways, roadways, and railroads. Painting, decorating, hardwood finishing, paper hanging, sign writing, scenic art work and drywall hhg for any and all types of building and residential work.

- **LEAD PAINT REMOVAL**

- Painter's Rate

1. Removal of lead paint from bridges.
2. Removal of lead paint as preparation of any surface to be repainted.
3. Where removal is on a Demolition project prior to reconstruction.

- Laborer's Rate

1. Removal of lead paint from any surface NOT to be repainted.
2. Where removal is on a *TOTAL* Demolition project only.

- **PLUMBERS AND PIPEFITTERS**

Installation, repair, replacement, alteration or maintenance of all plumbing, heating, cooling and piping. ****License required per Connecticut General Statutes: P-1,2,6,7,8,9 J-1,2,3,4 SP-1,2 S-1,2,3,4,5,6,7,8 B-1,2,3,4 D-1,2,3,4.***

- **POWER EQUIPMENT OPERATORS**

Operates several types of power construction equipment such as compressors, pumps, hoists, derricks, cranes, shovels, tractors, scrapers or motor graders, etc. Repairs and maintains equipment. ****License required, crane operators only, per Connecticut General Statutes.***

- **ROOFERS**

Covers roofs with composition shingles or sheets, wood shingles, slate or asphalt and gravel to waterproof roofs, including preparation of surface. (demolition or removal of any type of roofing and or clean-up of any and all areas where a roof is to be relaid.)

- **SHEETMETAL WORKERS**

Fabricate, assembles, installs and repairs sheetmetal products and equipment in such areas as ventilation, air-conditioning, warm air heating, restaurant equipment, architectural sheet metal work, sheetmetal roofing, and aluminum gutters. Fabrication, handling, assembling, erecting, altering, repairing, etc. of coated metal material panels and composite metal material panels when used on building exteriors and interiors as soffits, fascia, louvers, partitions, canopies, cornice, column covers, awnings, beam covers, cladding, sun shades, lighting troughs, spires, ornamental roofing, metal ceilings, mansards, copings, ornamental and ventilation hoods, vertical and horizontal siding panels, trim, etc. The sheet metal classification also applies to the vast variety of coated metal material panels and composite metal material panels that have evolved over the years as an alternative to conventional ferrous and non-ferrous metals like steel, iron, tin, copper, brass, bronze, aluminum, etc. Fabrication, handling, assembling, erecting, altering, repairing, etc. of architectural metal roof, standing seam roof, composite metal roof, metal and composite bathroom/toilet partitions, aluminum gutters, metal and composite lockers and shelving, kitchen equipment, and walk-in coolers. To include testing and air –balancing ancillary to installation and construction.

- **SPRINKLER FITTERS**

Installation, alteration, maintenance and repair of fire protection sprinkler systems.

****License required per Connecticut General Statutes: F-1,2,3,4.***

- **TILE MARBLE AND TERRAZZO FINISHERS**

Assists and tends the tile setter, marble mason and terrazzo worker in the performance of their duties.

- **TRUCK DRIVERS**

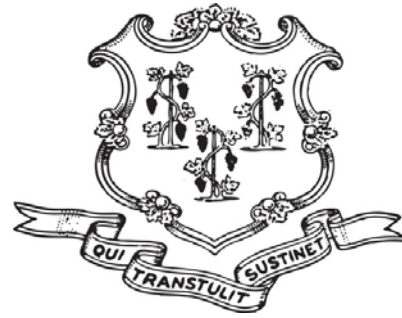
~How to pay truck drivers delivering asphalt is under REVISION~

Truck Drivers are requires to be paid prevailing wage for time spent "working" directly on the site. These drivers remain covered by the prevailing wage for any time spent transporting between the actual construction location and facilities (such as fabrication, plants, mobile factories, batch plant, borrow pits, job headquarters, tool yards, etc.) dedicated exclusively, or nearly so, to performance of the contract or project, which are so located in proximity to the actual construction location that it is reasonable to include them. ****License required, drivers only, per Connecticut General Statutes.***

For example:

- Material men and deliverymen are not covered under prevailing wage as long as they are not directly involved in the construction process. If, they unload the material, they would then be covered by prevailing wage for the classification they are performing work in: laborer, equipment operator, etc.
- Hauling material off site is not covered provided they are not dumping it at a location outlined above.
- Driving a truck on site and moving equipment or materials on site would be considered covered work, as this is part of the construction process.

➤ *Any questions regarding the proper classification should be directed to:*
Public Contract Compliance Unit
Wage and Workplace Standards Division
Connecticut Department of Labor
200 Folly Brook Blvd, Wethersfield, CT 06109
(860) 263-6790.



THIS IS A PUBLIC WORKS PROJECT

Covered by the

PREVAILING WAGE LAW

CT General Statutes Section 31-53

**If you have QUESTIONS regarding your wages
CALL (860) 263-6790**

Section 31-55 of the CT State Statutes requires every contractor or subcontractor performing work for the state to post in a prominent place the prevailing wages as determined by the Labor Commissioner.

[New] In accordance with Section 31-53b(a) of the C.G.S. each contractor shall provide a copy of the OSHA 10 Hour Construction Safety and Health Card for each employee, to be attached to the first certified payroll on the project.

2022-09 B.D.J.M.S Facade repair

In accordance with Connecticut General Statutes, 31-53 Certified Payrolls with a statement of compliance shall be submitted monthly to the contracting agency.											PAYROLL CERTIFICATION FOR PUBLIC WORKS PROJECTS										Connecticut Department of Labor Wage and Workplace Standards Division 200 Folly Brook Blvd. Wethersfield, CT 06109						
WEEKLY PAYROLL																											
CONTRACTOR NAME AND ADDRESS:											SUBCONTRACTOR NAME & ADDRESS										WORKER'S COMPENSATION INSURANCE CARRIER						
PAYROLL NUMBER		Week-Ending Date		PROJECT NAME & ADDRESS																			POLICY #				
																					EFFECTIVE DATE: EXPIRATION DATE:						
PERSON/WORKER, ADDRESS and SECTION	APPR RATE %	MALE/FEMALE AND RACE*	WORK CLASSIFICATION	DAY AND DATE							Total ST Hours	BASE HOURLY RATE	TYPE OF FRINGE BENEFITS Per Hour 1 through 6 (see back)	GROSS PAY FOR ALL WORK PERFORMED THIS WEEK	TOTAL DEDUCTIONS				GROSS PAY FOR THIS PREVAILING RATE JOB	CHECK # AND NET PAY							
				S	M	T	W	TH	F	S					FICA	FEDERAL WITH-HOLDING	STATE WITH-HOLDING	LIST OTHER									
			Trade License Type & Number - OSHA 10 Certification Number	HOURS WORKED EACH DAY							Total O/T Hours	TOTAL FRINGE BENEFIT PLAN CASH															
													1. \$														
											\$ Base Rate	2. \$															
											\$ Cash Fringe	3. \$															
												4. \$															
												5. \$															
												6. \$															
												\$ Base Rate	1. \$														
												\$ Cash Fringe	2. \$														
													3. \$														
													4. \$														
													5. \$														
													6. \$														

12/9/2013 *IF REQUIRED
WWS-CPI

*SEE REVERSE SIDE

PAGE NUMBER ____ OF

***FRINGE BENEFITS EXPLANATION (P):**

Bona fide benefits paid to approved plans, funds or programs, except those required by Federal or State Law (unemployment tax, worker’s compensation, income taxes, etc.).

Please specify the type of benefits provided:

- 1) Medical or hospital care _____ 4) Disability _____
- 2) Pension or retirement _____ 5) Vacation, holiday _____
- 3) Life Insurance _____ 6) Other (please specify) _____

CERTIFIED STATEMENT OF COMPLIANCE

For the week ending date of _____,

I, _____ of _____, (hereafter known as Employer) in my capacity as _____ (title) do hereby certify and state:

Section A:

1. All persons employed on said project have been paid the full weekly wages earned by them during the week in accordance with Connecticut General Statutes, section 31-53, as amended. Further, I hereby certify and state the following:

- a) The records submitted are true and accurate;
- b) The rate of wages paid to each mechanic, laborer or workman and the amount of payment or contributions paid or payable on behalf of each such person to any employee welfare fund, as defined in Connecticut General Statutes, section 31-53 (h), are not less than the prevailing rate of wages and the amount of payment or contributions paid or payable on behalf of each such person to any employee welfare fund, as determined by the Labor Commissioner pursuant to subsection Connecticut General Statutes, section 31-53 (d), and said wages and benefits are not less than those which may also be required by contract;
- c) The Employer has complied with all of the provisions in Connecticut General Statutes, section 31-53 (and Section 31-54 if applicable for state highway construction);
- d) Each such person is covered by a worker’s compensation insurance policy for the duration of his employment which proof of coverage has been provided to the contracting agency;
- e) The Employer does not receive kickbacks, which means any money, fee, commission, credit, gift, gratuity, thing of value, or compensation of any kind which is provided directly or indirectly, to any prime contractor, prime contractor employee, subcontractor, or subcontractor employee for the purpose of improperly obtaining or rewarding favorable treatment in connection with a prime contract or in connection with a prime contractor in connection with a subcontractor relating to a prime contractor; and
- f) The Employer is aware that filing a certified payroll which he knows to be false is a class D felony for which the employer may be fined up to five thousand dollars, imprisoned for up to five years or both.

2. OSHA~The employer shall affix a copy of the construction safety course, program or training completion document to the certified payroll required to be submitted to the contracting agency for this project on which such persons name first appears.

 (Signature) (Title) Submitted on (Date)

Weekly Payroll Certification For Public Works Projects (Continued)

PAYROLL CERTIFICATION FOR PUBLIC WORKS PROJECTS

Week-Ending Date: Contractor or Subcontractor Business Name:

WEEKLY PAYROLL

PERSON/WORKER, ADDRESS and SECTION	APPR RATE %	MALE/ FEMALE AND RACE*	WORK CLASSIFICATION Trade License Type & Number - OSHA 10 Certification Number	DAY AND DATE							Total ST Hours Total O/T Hours	BASE HOURLY RATE TOTAL FRINGE BENEFIT PLAN CASH	TYPE OF FRINGE BENEFITS Per Hour 1 through 6 (see back)	GROSS PAY FOR ALL WORK PERFORMED THIS WEEK	TOTAL DEDUCTIONS				GROSS PAY FOR THIS PREVAILING RATE JOB	CHECK # AND NET PAY	
				S	M	T	W	TH	F	S					FICA	FEDERAL WITH-HOLDING	STATE WITH-HOLDING	LIST OTHER			
				HOURS WORKED EACH DAY																	
											\$	1. \$									
											Base Rate	2. \$									
												3. \$									
											\$	4. \$									
											Cash Fringe	5. \$									
												6. \$									

*IF REQUIRED

STATUTE 31-55a

- SPECIAL NOTICE -

To: All State and Political Subdivisions, Their Agents, and Contractors

Connecticut General Statute 31-55a - Annual adjustments to wage rates by contractors doing state work.

Each contractor that is awarded a contract on or after October 1, 2002, for (1) the construction of a state highway or bridge that falls under the provisions of section 31-54 of the general statutes, or (2) the construction, remodeling, refinishing, refurbishing, rehabilitation, alteration or repair of any public works project that falls under the provisions of section 31-53 of the general statutes shall contact the Labor Commissioner on or before July first of each year, for the duration of such contract, to ascertain the prevailing rate of wages on an hourly basis and the amount of payment or contributions paid or payable on behalf of each mechanic, laborer or worker employed upon the work contracted to be done, and shall make any necessary adjustments to such prevailing rate of wages and such payment or contributions paid or payable on behalf of each such employee, effective each July first.

- The prevailing wage rates applicable to any contract or subcontract awarded on or after October 1, 2002 are subject to annual adjustments each July 1st for the duration of any project which was originally advertised for bids on or after October 1, 2002.
- Each contractor affected by the above requirement shall pay the annual adjusted prevailing wage rate that is in effect each July 1st, as posted by the Department of Labor.
- It is the **contractor's** responsibility to obtain the annual adjusted prevailing wage rate increases directly from the Department of Labor's Web Site. The annual adjustments will be posted on the Department of Labor Web page: www.ctdol.state.ct.us. For those without internet access, please contact the division listed below.
- The Department of Labor will continue to issue the initial prevailing wage rate schedule to the Contracting Agency for the project. All subsequent annual adjustments will be posted on our Web Site for contractor access.

Any questions should be directed to the Contract Compliance Unit, Wage and Workplace Standards Division, Connecticut Department of Labor, 200 Folly Brook Blvd., Wethersfield, CT 06109 at (860)263-6790.

Minimum Rates and Classifications for Building Construction

ID#: 22-35823

Connecticut Department of Labor Wage and Workplace Standards Division

By virtue of the authority vested in the Labor Commissioner under provisions of Section 31-53 of the General Statutes of Connecticut, as amended, the following are declared to be the prevailing rates and welfare payments and will apply only where the contract is advertised for bid within 20 days of the date on which the rates are established. Any contractor or subcontractor not obligated by agreement to pay to the welfare and pension fund shall pay this amount to each employee as part of his/her hourly wages.

Project Number:

Project Town:

New London

State#:

FAP#:

Project: Bennie Dover Jackson Middle School Facade Repairs

CLASSIFICATION	Hourly Rate	Benefits
1b) Asbestos/Toxic Waste Removal Laborers: Asbestos removal and encapsulation (except its removal from mechanical systems which are not to be scrapped), toxic waste removers, blasters. **See Laborers Group 7**		
1c) Asbestos Worker/Heat and Frost Insulator	44.57	31.79
2) Boilermaker	44.46	28.51
3a) Bricklayer, Cement Mason, Concrete Finisher (including caulking), Stone Masons	37.75	34.62 + a
3b) Tile Setter	37.1	30.52
3c) Tile and Stone Finishers	30.0	25.30
3d) Marble & Terrazzo Finishers	31.07	24.23
3e) Plasterer	41.9	28.75
4) Group 1: Laborers (common or general), acetylene burners, concrete specialists, wrecking laborers, fire watchers.	32.0	24.40

4a) Group 2: Mortar mixers, plaster tender, power buggy operators, powdermen, fireproofers/mixer/nozzlemans (Person running mixer and spraying fireproof only).	32.25 2022-09 B.D.J.M.S. Facade repair	24.40
4b) Group 3: Jackhammer operators/pavement breaker, mason tender (brick), mason tender (cement/concrete), forklift operators and forklift operators (masonry).	32.5	24.40
4c) **Group 4: Pipelayers (Installation of water, storm drainage or sewage lines outside of the building line with P6, P7 license) (the pipelayer rate shall apply only to one or two employees of the total crew who primary task is to actually perform the mating of pipe sections) P6 and P7 rate is \$26.80.	33.0	24.40
4d) Group 5: Air track operator, sand blaster and hydraulic drills.	32.75	24.40
4e) Group 6: Blasters, nuclear and toxic waste removal.	35.0	24.40
4f) Group 7: Asbestos/lead removal and encapsulation (except it's removal from mechanical systems which are not to be scrapped).	33.0	24.40
4g) Group 8: Bottom men on open air caisson, cylindrical work and boring crew.	30.28	24.40
4h) Group 9: Top men on open air caisson, cylindrical work and boring crew.	29.74	24.40
4i) Group 10: Traffic Control Signalman	18.0	24.40
5) Carpenter, Acoustical Ceiling Installation, Soft Floor/Carpet Laying, Metal Stud Installation, Form Work and Scaffold Building, Drywall Hanging, Modular-Furniture Systems Installers, Lathers, Piledrivers, Resilient Floor Layers.	36.07	26.15
5a) Millwrights	36.32	26.81
6) Electrical Worker (including low voltage wiring) (Trade License required: E1,2 L-5,6 C-5,6 T-1,2 L-1,2 V-1,2,7,8,9)	40.6	32.21+3% of gross wage

-----LINE CONSTRUCTION-----

Groundman	26.5	6.5% + 9.00
Linemen/Cable Splicer	48.19	6.5% + 22.00
8) Glazier (Trade License required: FG-1,2)	40.78	23.40 + a
9) Ironworker, Ornamental, Reinforcing, Structural, and Precast Concrete Erection	39.7	38.77 + a

-----OPERATORS-----

Group 1: Crane Handling or Erecting Structural Steel or Stone; Hoisting Engineer (2 drums or over). (Trade License Required)	50.27	26.80 + a
Group 1a: Front End Loader (7 cubic yards or over); Work Boat 26 ft. and Over	46.07	26.80 + a
Group 2: Cranes (100 ton rate capacity and over); Bauer Drill/Caisson. (Trade License Required)	49.91	26.80 + a
Group 2a: Cranes (under 100 ton rated capacity).	49.06	26.80 + a
Group 2b: Excavator over 2 cubic yards; Pile Driver (\$3.00 premium when operator controls hammer)	45.71	26.80 + a
Group 3: Excavator; Gradall; Master Mechanic; Hoisting Engineer (all types of equipment where a drum and cable are used to hoist or drag material regardless of motive power of operation), Rubber Tire Excavator (Drott-1085 or similar); Grader Operator; Bulldozer Finegrade. (slopes, shaping, laser or GPS, etc.). (Trade License Required)	44.86	26.80 + a

Group 4: Trenching Machines; Lighter Derrick; CMI Machine or Similar; Koehring Loader (Skooper); Goldhofer.	44.42	26.80 + a
Group 5: Specialty Railroad Equipment; Asphalt Spreader, Asphalt Reclaiming Machine; Line Grinder; Concrete Pumps; Drills with Self Contained Power Units; Boring Machine; Post Hole Digger; Auger; Pounder; Well Digger; Milling Machine (over 24 mandrel).	43.73	26.80 + a
Group 5 continued: Side Boom; Combination Hoe and Loader; Directional Driller.	43.73	26.80 + a
Group 6: Front End Loader (3 up to 7 cubic yards); Bulldozer (rough grade dozer).	43.38	26.80 + a
Group 7: Asphalt Roller; Concrete Saws and Cutters (ride on types); Vermeer Concrete Cutter; Stump Grinder; Scraper; Snooper; Skidder; Milling Machine (24" and under mandrel).	42.99	26.80 + a
Group 8: Mechanic; Grease Truck Operator; Hydroblaster; Barrier Mover; Power Stone Spreader; Welding; Work Boat Under 26 ft.; Transfer Machine; Rigger Foreman.	42.54	26.80 + a
Group 9: Front End Loader (under 3 cubic yards); Skid Steer Loader regardless of attachments; (Bobcat or Similar); Forklift, Power Chipper; Landscape Equipment (including Hydroseeder); Vacuum Excavation Truck and Hydrovac Excavation Truck (27 HG pressure or greater).	42.04	26.80 + a
Group 10: Vibratory hammer; ice machine; diesel and air, hammer, etc.	39.7	26.80 + a
Group 11: Conveyor, earth roller, power pavement breaker (whiphammer), robot demolition equipment.	39.7	26.80 + a
Group 12: Wellpoint Operator.	39.63	26.80 + a
Group 13: Compressor Battery Operator.	38.97	26.80 + a
Group 14: Elevator Operator; Tow Motor Operator (solid tire no rough terrain).	37.66	26.80 + a

Group 15: Generator Operator; Compressor Operator; Pump Operator;
Welding Machine Operator; Heater Operator.

2022-09 B.D.J.M.S. Facade repair 37.2 26.80 + a

Group 16: Maintenance Engineer.	36.46	26.80 + a
Group 17: Portable Asphalt Plant Operator; Portable Crusher Plant Operator; Portable Concrete Plant Operator; Portable Grout Plant Operator; Portable Water Filtration Plant Operator.	41.39	26.80 + a
Group 18: Power Safety Boat; Vacuum Truck; Zim Mixer; Sweeper; (Minimum for any job requiring a CDL license); Rigger; Signalman.	38.61	26.80 + a
10a) Brush and Roller	37.22	23.40
10b) Taping Only/Drywall Finishing	37.97	23.40
10c) Paperhanger and Red Label	37.72	23.40
10e) Blast and Spray	40.22	23.40
11) Plumber (excluding HVAC pipe installation) (Trade License required: P-1,2,6,7,8,9 J-1,2,3,4 SP-1,2)	47.03	34.05
12) Well Digger, Pile Testing Machine	37.26	24.05 + a
13) Roofer (composition)	40.1	23.40
14) Roofer (slate & tile)	40.6	23.40
15) Sheetmetal Worker (Trade License required for HVAC and Ductwork: SM-1,SM-2,SM-3,SM-4,SM-5,SM-6)	40.08	40.53
16) Pipefitter (Including HVAC work) (Trade License required: S-1,2,3,4,5,6,7,8 B-1,2,3,4 D-1,2,3,4, G-1, G-2, G-8 & G-9)	47.03	34.05

-----TRUCK DRIVERS-----

17a) 2 Axle, Helpers	31.16	28.78 + a
17b) 3 Axle, 2 Axle Ready Mix	31.27	28.78 + a
17c) 3 Axle Ready Mix	31.33	28.78 + a
17d) 4 Axle	31.39	28.78 + a
17e) 4 Axle Ready Mix	31.44	28.78 + a
17f) Heavy Duty Trailer (40 Tons and Over)	33.66	28.78 + a
17g) Specialized Earth Moving Equipment (Other Than Conventional Type on-the-Road Trucks and Semi-Trailers, Including Euclids)	31.44	28.78 + a
17h) Heavy Duty Trailer up to 40 tons	32.39	28.78 + a
17i) Snorkle Truck	31.54	28.78 + a
18) Sprinkler Fitter (Trade License required: F-1,2,3,4)	47.55	28.96 + a
19) Theatrical Stage Journeyman	25.76	7.34

Welders: Rate for craft to which welding is incidental.

**Note: Hazardous waste removal work receives additional \$1.25 per hour for truck drivers.*

***Note: Hazardous waste premium \$3.00 per hour over classified rate*

Crane with 150 ft. boom (including jib) - \$1.50 extra
 Crane with 200 ft. boom (including jib) - \$2.50 extra
 Crane with 250 ft. boom (including jib) - \$5.00 extra
 Crane with 300 ft. boom (including jib) - \$7.00 extra
 Crane with 400 ft. boom (including jib) - \$10.00 extra

All classifications that indicate a percentage of the fringe benefits must be calculated at the percentage rate times the "base hourly rate".

2022-09 B.D.J.M.S Facade repair

Apprentices duly registered under the Commissioner of Labor's regulations on "Work Training Standards for Apprenticeship and Training Programs" Section 31-51-d-1 to 12, are allowed to be paid the appropriate percentage of the prevailing journeymen hourly base and the full fringe benefit rate, providing the work site ratio shall not be less than one full-time journeyman instructing and supervising the work of each apprentice in a specific trade.

The Prevailing wage rates applicable to this project are subject to annual adjustments each July 1st for the duration of the project.

Each contractor shall pay the annual adjusted prevailing wage rate that is in effect each July 1st, as posted by the Department of Labor.

It is the contractor's responsibility to obtain the annual adjusted prevailing wage rate increases directly from the Department of Labor's website.

The annual adjustments will be posted on the Department of Labor's Web page:

www.ct.gov/dol. For those without internet access, please contact the division listed below.

The Department of Labor will continue to issue the initial prevailing wage rate schedule to the Contracting Agency for the project.

All subsequent annual adjustments will be posted on our Web Site for contractor access.

Contracting Agencies are under no obligation pursuant to State labor law to pay any increase due to the annual adjustment provision.

Effective October 1, 2005 - Public Act 05-50: any person performing the work of any mechanic, laborer, or worker shall be paid prevailing wage

All Person who perform work ON SITE must be paid prevailing wage for the appropriate mechanic, laborer, or worker classification.

All certified payrolls must list the hours worked and wages paid to All Persons who perform work ON SITE regardless of their ownership i.e.: (Owners, Corporate Officers, LLC Members, Independent Contractors, et. al)

Reporting and payment of wages is required regardless of any contractual relationship alleged to exist between the contractor and such person.

~~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 clause (29 CFR 5.5 (a) (1) (ii)).

Please direct any questions which you may have pertaining to classification of work and payment of prevailing wages to the Wage and Workplace Standards Division, telephone (860)263-6790.

As of: June 10, 2022

PROJECT MANUAL
FOR
CITY PROJECT #2022-09
BASE OF WALL REPAIRS
AT
BENNIE DOVER JACKSON MULTI-MAGNET MIDDLE
SCHOOL NEW LONDON, CT

PREPARED FOR
NEW LONDON PUBLIC SCHOOLS
134 WILLIAMS ST
NEW LONDON, CT 06320

PREPARED BY:

R. J. Kenney Associates, Inc.

ISSUE DATE: 6/1/2022

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A-101	REPAIR PLAN
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A-301	DETAILS
A-401	REFERENCE PHOTOS

END OF SECTION

BID FORM WORKSHEET

Repair Item	Description (Refer to Specification Section 01 10 00 - Summary of Work and individual specification sections for a full description of work. Not all work items may be listed in the breakout below. It is the Contractor's responsibility to identify missing work items and provide pricing for each item under "Miscellaneous", below)	Quantity Notes	Quantity	Unit Cost	Unit	Total
Mandatory site visit is required to verify dimensions/quantities and understanding of scope.						
1	EXCAVATION					
1.1	Remove and discard soil from the north elevation wall in area indicated on plans. Assume an average depth of 3 feet. Remove ivy from work area.	See Plans			ft	
1.2	Backfill area of excavation with pea stone to allow for foundation drainage.	See Plans			ft	
2	BRICK REMOVAL/REPLACEMENT	Quantity Notes	Quantity	Unit Cost	Unit	Total
2.1	Remove and discard brick from the below grade brick shelf to 4 courses above grade. It is estimated that an average of 10 courses will require removal.	See Plans			ft	
2.2	Install new brick to match existing where removed. Provide ties and cell vents above and below grade and mortar net above grade as specified.	See Plans			ft	
3	CONCRETE REPAIR	Quantity Notes	Quantity	Unit Cost	Unit	Total
3.1	Thoroughly clean the existing dove tail slots in the exposed concrete and place repair mortar to completely fill the slots. Finish flush with adjacent wall.	Assume slots are 16" o.c			ft	
4	WATERPROOFING/INSULATION	Quantity Notes	Quantity	Unit Cost	Unit	Total
4.1	Completely remove existing waterproofing from the brick shelf down 7". Prepare surface for new waterproofing.	See Plans			ft ²	
4.2	Apply waterproofing system from 10" below the brick shelf to lap over existing waterproofing 3", over the brick shelf, and up the wall 2" below top of through-wall flashing.	See Plans			ft ²	
4.3	Provide continuous insulation board above and below grade.	See Plans			ft ²	
5	FLASHING	Quantity Notes	Quantity	Unit Cost	Unit	Total
5.1	Install metal clad, self-adhered membrane, through-wall flashing over the first course of brick above grade and up wall to extend 2" above the waterproofing termination. Install termination bar and sealant at top of flashing vertical leg and over upper termination of dove tail mortar. Set outer edge of flashing over drip lip set in sealant.	See Plans			ft	
6	SEALANT	Quantity Notes	Quantity	Unit Cost	Unit	Total
6.1	Remove expansion joint accessory in the work area and replace with backer rod and sealant. Joint width may require manufacturer input for constructability.	See Plans			ft	
6.2	Remove control joint sealant and backer material. Prepare and prime joint in the work area and replace with backer rod and sealant.	See Plans			ft	
7	MISCELLANEOUS (List items, if any, not included above)	Quantity Notes	Quantity	Unit Cost	Unit	Total
7.1	Remove and reinstall downspouts, if necessary.	See Plans	3			
7.2	Remove and reinstall bike rack.	See Plans	1			
7.3						
7.4						
7.5						
7.6						
Subtotal:						
Subtotal:						
Access (lifts/scaffolding):						
General Conditions:						
Overhead/Profit:						
Other (Specify -):						
Bond (if required):						
Building Permit:						
TOTAL:						

**SECTION 00 21 13
INSTRUCTIONS TO BIDDERS**

A. GENERAL

1. Refer to City of New London, Department of Finance - Purchasing Agent Invitation To Bid.
 - a. BENNIE DOVER JACKSON - Base of Wall Repairs

END OF SECTION

**SECTION 01 04 00
UNIT PRICES**

PART 1 GENERAL

1.01 GENERAL

- A. This Section lists the Unit Prices that appear in the Contract Documents. Drawing and Specification references are provided as applicable.
- B. Unit Prices shall be used to determine the increase or decrease to the contract amount for quantities of work greater than or less than the quantities included in the base Bid Price. As such, provide all necessary overhead and markups to the Unit Price.
- C. Indicate the amount of change (addition or deduction) to the contract price for each Unit Price in the appropriate space on the Bid Form.
1. Unit Prices shall include the work of all related trades, whether specifically referred to or not. Unit Prices shall include all access, preparation, protection, demolition, disposal, cleaning, and other items related to the work of the Unit Price, per requirements indicated in Division 1 and the General Requirements and Conditions of this manual, as necessary for complete and proper execution of the Unit Price.
 2. No other amounts shall be added to the Unit Price in calculating additions or subtractions to the Unit Price work in excess or short of the base contract.
- D. The Contractor and Subcontractors shall be responsible for examining the scope of each Unit Price generally defined herein and for recognizing modifications to the Work caused by the Unit Prices and including the cost thereof in the bid price.
- E. Unit Prices are a fixed value for the cost of work to be added to or subtracted from the contract amount. The value to add work and subtract work shall match; do not provide separate "add" and "deduct" prices.

1.02 See Unit Price Schedule Below:

UNIT PRICE SCHEDULE

#	DESCRIPTION OF WORK	UNITS	REFERENCE SPEC/ DETAILS	ADD/DEDUCT PRICE PER UNIT (Insert only one number)
1	Remove and discard 1 foot of soil vertically and horizontally along the north foundation wall. Assume access is provided and excavation equipment is already on site. Backfill with pea stone.	LF	Section 01 11 00	

#	DESCRIPTION OF WORK	UNITS	REFERENCE SPEC/ DETAILS	ADD/DEDUCT PRICE PER UNIT (Insert only one number)
2	Completely strip existing waterproofing from concrete/CMU surface using mechanical means.	SF	Section 01 11 00	
3	Apply specified waterproofing system over prepared concrete/CMU substrate.	SF	Section 01 11 00	
4	In an area where brick is to be removed, provide price to remove and reinstall one additional course of brick. Match existing brick.	LF	Section 04 01 00	
5	Install through-wall flashing one brick course above Grade Level. Provide drip lip, termination bar and sealant.	LF	Section 07 62 00	

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 11 00 SUMMARY OF WORK

1.01 GENERAL SCOPE

- A. It is the intent of the work of the contract to accomplish the following:
1. Excavate soil along the north elevation from 3 feet northwest (right) of Column Line 15 to 3 feet southeast (left) of Column Line 21.
 - a. Extend excavation 12" below brick shelf that occurs at varying levels below grade.
 - b. Excavate 24" from wall.
 2. Repair backup waterproofing from 12" below the brick shelf and extend repairs at least 4 brick courses above grade.
 - a. Existing waterproofing will require removal by mechanical means.
 - b. Dovetail slots in foundation wall from the shelf up 4 courses above grade will require filling.
 3. Provide insulation, new through-wall flashing, and brick.
 4. Backfill with pea stone.

1.02 DESCRIPTION OF THE WORK INCLUDED

- A. In general, the Scope of the Work shall include, without being limited to, the following (refer to Appendix "A" for repair):
1. Excavate soil along the north elevation from 3 feet northwest (right) of Column Line 15 to 3 feet southeast (left) of Column Line 21 to extend 1 foot minimum below the brick shelf.
 - a. Protect three existing downspouts to remain.
 - b. Remove bike rack to facilitate repairs and reinstall when work is complete.
 - c. Remove and dispose of all ivy in the work area.
 2. Remove the brick from the shelf to 4 courses above grade.
 - a. Provide support for brick above.
 - b. Total brick courses to be removed are estimated to be between 7 and 11.
 3. Clean brick shelf and concrete backup wall.
 4. Where exposed, fill dovetail joints in the backup wall with low shrink repair mortar from the shelf up to top of new through-wall flashing upturn.
 - a. Provide Master Builders MasterEmaco N425, Euclid EucoRepair V100, SpecChem DuoPatch, or equal.
 - b. Leave adequate clearance at the top of the dovetail slot to apply sealant.
 5. Strip existing waterproofing from the brick shelf and from the concrete wall 7 inches below the shelf.
 - a. Existing waterproofing at and below the shelf appears to be a bituminous (asphalt, solvent based) liquid-applied material.
 - b. Allow for mechanical means to completely remove coating.

6. Apply sheet membrane 10 inches below the brick shelf, over the brick shelf, and up wall two courses of brick above finished grade.
 - a. Clean and prime, as needed, all surfaces to receive new waterproofing.
 - b. Verify compatibility of new waterproofing to lap 3" over existing waterproofing. Terminate with compatible mastic.
 - c. Provide W. R. Meadows MEL-ROL Sheet with MEL-ROL Liquid Membrane, Carlisle MiraDRI 860/861 with CCW LM800-XL mastic, GCP Applied Technologies Bituthene 3000 or approved equal.
7. Install metal through-wall flashing against the waterproofing with the top leg fastened using a stainless steel termination bar. Waterproofing behind flashing shall not extend above the termination bar.
 - a. Metal Flashing: Hohmann and Barnard Mighty-Flash™ SA (stainless steel, self-adhered) with 26 gauge mill finish 304 stainless steel drip.
 - b. Termination Bar: Hohmann and Bernard T2, or equal, made from 300 Series stainless steel.
8. Seal the top of the termination bar to cleaned and primed concrete stem wall.
 - a. Provide Hohmann and Barnard HB Sealant.
 - b. Extend termination sealant into dovetail slots across top of repair mortar fill.
9. Install new XPS insulation board where missing or damaged.
 - a. Provide Dupont CavityMate, Owens Corning FOAMULAR 250, or approved equal.
 - b. Thickness to match existing.
 - c. New and/or existing insulation shall be continuous across the outside face of foundation wall within the excavated area.
 - d. New and/or existing insulation shall be continuous on the backup wall from the brick shelf up to the top of brick removal.
10. Install new brick from the shelf to the bottom of the through-wall flashing at least one course above grade, fill solid.
 - a. Brick: ASTM C 216, Grade SW, Type FBS.
 - b. Ties: Hohmann and Barnard, 304 stainless steel, 345-BT Flexible Tie, face fastened to substrate, or approved equal.
 - c. Provide a tie every 2.6 ft² of wall area. Start ties one brick course above the shelf.
 - d. Apply waterproofing seal over all tie anchor points.
 - e. Provide cell vents in head joints every ~48".
11. Install new brick from the new flashing level up three courses.
 - a. Brick: ASTM C 216, Grade SW, Type FBX.
 - b. Ties: Hohmann and Barnard, 304 stainless steel, 345-BT Flexible Tie, face fastened to substrate, or approved equal.
 - c. Provide one row of ties at the second brick course above the flashing. Space ties a maximum of every 24" horizontally.
 - d. Apply waterproofing seal over all tie anchor points.
 - e. Provide continuous mortar net above the through-wall flashing.
 - f. Provide cell vents in head joints every ~24".

12. Replace sealant at vertical brick joints, including the preformed expansion joint at Column Line 15/16.
 - a. Provide Master Builders MasterSeal NP-1 polyurethane, or Tremco Dymonic 100 polyurethane.
 - b. Contact the manufacturer as needed for excessive joint width.
- B. All work shall include all labor, materials, equipment, and services related to and implied by the contract documents, as necessary for the complete installation and execution of all work included in the contract documents.

1.03 TIME OF COMPLETION

- A. The work shall be completed within the time frame stipulated in the Contract.

1.04 COORDINATION AND RESPONSIBILITY

- A. The Contractor shall be responsible for coordination and scheduling of all work, including that of suppliers, inspectors, etc.
- B. Any and all construction related services and expenses resulting from delays to the completion of the work, due to causes that are not beyond the Contractor's control, shall be the responsibility of the Contractor.

1.05 WARRANTY

- A. The Contractor warrants to the Owner that all materials, products, systems, and equipment furnished under the Contract will be of good quality and new, unless otherwise required or permitted by the Contract Documents, that the Work will be free from defects or failures not inherent in the quality required or permitted, and that the Work will conform with the requirements of the Contract Documents.
 1. Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective.
 2. The Contractor's warranty excludes remedy for damage or defects caused by abuse, modifications not executed by the Contractor, improper or insufficient maintenance, improper operation, or wear and tear under normal usage.
 3. If required by the Architect, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.
- B. The Warranty shall be in effect upon the date of acceptance by the Owner of the completed work and shall remain in effect for the period specified in the individual specification sections but shall not be less than three (3) years.
 1. This warranty shall include and apply to the work of all subcontractors to the Contractor.
- C. Work or items failing to meet the requirements of the warranty shall be immediately replaced to the satisfaction of the Owner, at no additional cost to the Owner.

1.06 SAFETY

- A. Safety is of the utmost concern. The Contractor shall be fully responsible for all safety precautions and measures necessary to protect workers, building occupants and users, and Owner's property during the execution of all the work under this contract.

END OF SECTION

Base of Wall Repairs
Bennie Dover Jackson Multi-Magnet Middle School
New London, CT

SECTION 02 41 00
SELECTIVE DEMOLITION

PART 1 GENERAL

1.01 GENERAL REQUIREMENTS

- A. Attention is directed to the General and Supplementary Conditions and Division 1, which are made a part of this Section.

1.02 SCOPE OF WORK

- A. Furnish labor, materials, equipment, and services necessary for complete demolition and disposal of items as shown on drawings and as specified herein.
- B. Excavation
1. Excavate soil along the north elevation from 3 feet northwest (right) of Column Line 15 to 3 feet southeast (left) of Column Line 21 to extend one foot minimum below the brick shelf. It is estimated that the depth of excavation varies from 3 to 7 courses of brick.
 - a. Protect three existing downspouts to remain.
 - b. Remove bike rack to facilitate repairs and reinstall when work is complete.
 - c. Remove and dispose of all ivy in the work area.
 2. Remove the brick from the shelf to 4 courses above grade.
 - a. Provide support for brick above.
 - b. Total brick courses to be removed are estimated to be between 7 and 11.

1.03 EXISTING CONDITIONS

- A. Conduct demolition to minimize interference with adjacent building areas. Maintain protected egress and access to buildings at all times.
- B. Provide, erect, and maintain temporary barriers and security devices necessary to protect adjacent areas and pedestrians.
- C. Provide protection and other means to control dust and prevent dust and debris from entering or contaminating unaffected areas, particularly ventilation systems and interior spaces.
- D. RJK can neither confirm nor deny the presence of asbestos, PCB, or other hazardous materials within the work area.

1.04 STANDARDS

- A. Demolition activities shall comply with all applicable local, state, and federal regulations and procedures. Certain localities require inspection by the Health Department before and during demolition, to ascertain the presence of hazardous materials.
- B. The Contractor shall be responsible for paying for and obtaining all licenses, permits, filings, fees, etc., related to demolition inspection, and disposal of demolition materials.

Base of Wall Repairs
Bennie Dover Jackson Multi-Magnet Middle School
New London, CT

- C. Dispose of all materials deemed as hazardous according to the requirements of all applicable local, state, and federal regulations and procedures.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.01 PREPARATION

- A. Provide shoring plan and materials for shoring prior to cutting for brick removal.
- B. Cut away loose or unsound adjoining masonry to provide a firm and solid bearing for new work.
- C. Cut and remove brick in sections that do not exceed spans that can safely be supported with shoring as work progresses.
- D. Protect all adjacent areas from damage due to demolition operations and resulting dust and debris.
- E. Damage and additional cleaning beyond the Owner's normal cleaning operations, caused by demolition work, shall be the responsibility of the Contractor, at no additional cost to the Owner.
- F. Noise pollution shall be minimized as much as possible.
- G. Clean demolition areas and adjacent surfaces upon completion of the work.

END OF SECTION

SECTION 03 01 00 CONCRETE REPAIR

PART 1 GENERAL

1.01 GENERAL REQUIREMENTS

- A. Attention is directed to the General and Supplementary Conditions and Division 1 and Division 2, including all subdivisions thereof, as listed in the Table of Contents, which are made a part of this Section.

1.02 SCOPE OF WORK

- A. Strip existing waterproofing from the brick shelf and from the concrete wall 7 inches below the shelf.
 - 1. Existing waterproofing at and below the shelf appears to be a bituminous (asphalt, solvent based) liquid-applied material.
 - 2. Allow for mechanical means to completely remove coating
- B. Where exposed in the backup wall, fill dovetail joints with low shrink repair mortar from the shelf up to top of new through-wall flashing upturn

1.03 RELATED REQUIREMENTS

- A. Section 02 41 00 - Selective Demolition
- B. Section 07 92 00 - Joint Sealants

1.04 PRICE AND PAYMENT PROCEDURES

- A. See Section 01 04 00 - Unit Prices for additional Unit Price requirements

1.05 REFERENCED STANDARDS

- A. ACI 211.1 - Standard Practice for Selecting Proportions for Normal, Heavyweight, and Mass Concrete 1991 (Reapproved 2009).
- B. ACI 318 - Building Code Requirements for Structural Concrete and Commentary, 2014 (Errata 2017).
- C. ACI 347R - Guide to Formwork for Concrete, 2014.
- D. ASTM A 615/A 615M - Standard Specifications for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement, 2016.
- E. ASTM A 767/A 767M - Standard Specifications for Zinc-Coated (Galvanized) Steel Bars for Concrete Reinforcement, 2016.
- F. ASTM A 775/A 775M - Standard Specifications for Epoxy-Coated Steel Reinforcement Bars, 2017.

- G. ASTM A 1064/A 1064M - Standard Specifications for Carbon Steel Wire and Welded Wire Reinforcement, Plain and Deformed for Concrete, 2016.
- H. ASTM C 33/C 33M - Standard Specifications for Concrete Aggregates, 2016, with Editorial Revisions (2016).
- I. ASTM C 39/C 39M - Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens, 2018.
- J. ASTM C 94/C 94M - Standard Specifications for Ready Mix Concrete, 2017a
- K. ASTM C 109/C 109M - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in or (50 mm) Cube Specimens), 2020a.
- L. ASTM C 150/C 150M - Standard Specifications for Portland Cement, 2018.
- M. ASTM C 348 - Standard Test Method for Flexural Strength of Hydraulic Cement Mortars, 2014.
- N. ASTM C 404 - Standard Specifications for Aggregates for Masonry Grout, 2011.
- O. ASTM C 881/C 881M - Standard Specifications for Epoxy Resin-Based Bonding Systems for Concrete, 2015.
- P. ASTM C 928/C 928M - Standard Specifications for Packaged, Dry and Rapid-Hardening Cementitious Material for Concrete Repairs, 2013.
- Q. ASTM C 1059/C 1059M - Standard Specifications for Latex Agents for Bonding Fresh to Hardened Concrete, 2013.
- R. ASTM C 94/C 94M - Standard Specifications for Ready-Mixed Concrete, 2017a.
- S. AWS D1.4/D1.4M - Structural Welding Code - Reinforcing Steel, 2011.
- T. ICRI 310.2R - Selecting and Specifying Concrete Surface Preparation for Sealers, Coating, Polymer Overlays, and Concrete Repairs, 2013.
- U. The work shall conform to the codes and standards of the following agencies: ASTM, ACI, and CRSI.

1.06 SUBMITTALS

- A. See Section 01 00 00 - General Requirements for submittal procedures.
- B. Product Data: Indicate product standards, physical, and chemical characteristics, technical specifications, and limitations regarding each material.

1.07 DELIVERY, STORAGE AND HANDLING

- A. Comply with manufacturer's instructions for storage, shelf life limitations, and handling of products.

PART 2 PRODUCTS

2.01 CEMENTITIOUS PATCHING AND REPAIR MATERIALS

- A. Cementitious Repair Mortar, Trowel Grade: One or two component, factory-mixed, polymer-modified cementitious mortar.
 - 1. In-place material resistant to freeze/thaw conditions.
 - 2. Mixed with water or latex type bonding agent in proportions recommended by manufacturer.
 - 3. Corrosion Inhibitors.
 - 4. Products:
 - a. Euclid Chemical Company; EucoRepair V100: www.euclidchemical.com.
 - b. Master Builders Solutions by BASF; MasterEmaco N425: www.master-builders-solutions.basf.us.
 - c. SpecChem, LLC; Duo Patch: www.specchemllc.com.
 - d. Approved Equal.

PART 3 EXECUTION

3.01 DEFINITION OF WORK TO BE PERFORMED

- A. Completely strip the existing waterproofing from the brick shelf and 7" below the shelf, using mechanical means. If waterproofing is present above the shelf, it will also require complete removal.
- B. Thoroughly clean all joints to receive repair mortar. Abrade, as necessary, to remove all loose, and deleterious material from the slot.
- C. It is required to fill all vertical dove tail slots in the concrete wall where exposed.
- D. Follow bonding agent and repair mortar manufacturer's written installation instructions.
- E. Transport repair mortar from mixer to place of final deposit, as rapidly as practical, by methods that prevent separation of ingredients and displacement of reinforcement. Do not deposit any partially hardened mortar.
- F. Fill voids with cementitious mortar flush with surface.
- G. Apply repair mortar by steel trowel, completely filling and packing the dove tail slots. Follow repair mortar manufacturer's written recommendations regarding maximum thickness of application and depth of individual lifts.
- H. Trowel finish to match adjacent concrete surfaces. If necessary, a wooden float may be used to make the surface level. The final surface may be made smooth using a wooden, plastic, or synthetic sponge trowel.
- I. Protect all repair work against injury from elements and defacement of any nature during construction operations.

- J. No repair mortar shall be placed against existing surfaces when the temperature of the parent surface is below 50 °F.
- K. All repair mortar placed at ambient temperature below 40 °F shall have a minimum temperature of 50 °F. If installing repairs in cold weather, care shall be exercised to have the base slab concrete above 50 °F and preferably between 60 - 70 °F. Repairs made in cold weather shall not contain frozen aggregates and shall be placed at a mix temperature between 60 - 80 °F. All repairs shall be protected so the temperature at the surface will not fall below 50 °F for not less than 7 days after placing.

3.02 FIELD QUALITY CONTROL

- A. Allow Owner's Representative to inspect application of patch material prior to covering with waterproofing.

END OF SECTION

SECTION 04 01 00 MASONRY REPAIRS

PART 1 GENERAL

1.01 GENERAL REQUIREMENTS

- A. Attention is directed to the General and Supplementary Conditions and Division 1 and Division 2, including all subdivisions thereof, as listed in the Table of Contents, which are made part of this Section.

1.02 SCOPE OF WORK

- A. Provide installation of new masonry to match existing, in size and appearance, throughout the work area, as shown on the drawings and including but not limited to:
 - 1. Install new brick from the shelf to the bottom of the through-wall flashing at least one course above grade; fill solid. Provide continuous insulation and brick ties.
 - 2. Install new brick from the new flashing level up three courses. Provide continuous insulation and brick ties.

1.03 RELATED REQUIREMENTS

- A. Section 02 41 00 - Selective Demolition
- B. Section 07 62 00 - Flashing and Sheet Metal
- C. Section 07 92 00 - Joint Sealants

1.04 PRICE AND PAYMENT PROCEDURES

- A. See Section 01 04 00 - Unit Prices, for additional unit price requirements.

1.05 REFERENCE STANDARDS

- A. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware, 2016a.
- B. ASTM A 240/A 240M - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications, 2016.
- C. ASTM A 167 - Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip, 1999 (Reapproved 2009).
- D. ASTM A 580/A 580M - Standard Specification for Stainless Steel Wire, 2016.
- E. ASTM A 641/A 641M - Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire, 2009a (Reapproved 2014).
- F. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvanized) by the Hot-Dip Process, 2017.

- G. ASTM A 666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar, 2015.
- H. ASTM A 951/A 951M - Standard Specifications for Steel Wire for Masonry Joint Reinforcement, 2016.
- I. ASTM C 62 - Standard Specification for Building Brick (Solid Masonry Units Made from Clay or Shale), 2017.
- J. ASTM C 67/C 67M - Standard Test Methods for Samplings and Testing Brick and Structural Clay Tile, 2018.
- K. ASTM C 150/C 150M - Standard Specification for Portland Cement, 2018.
- L. ASTM C 207 - Standard specification for Hydrated Lime and Masonry Purposes, 2006 (Reapproved 2011).
- M. ASTM C 216 - Standard Specification for Facing Brick (Solid Masonry Units Made From Clay or Shale), 2017a.
- N. ASTM C 1148 - Standard Test Method for Measuring the Drying Shrinkage of Masonry Mortar, 1992a (Reapproved 2014).
- O. ASTM E 514/E 514M - Standard Test Method for Water Penetration and Leakage Through Masonry, 2014a.
- P. BIA Technical Notes No. 7 - Water Penetration Resistance - Design and Detailing, 2007.
- Q. TMS 402-602 - Building Code Requirements and Specifications for Masonry Structures, 2016.

1.06 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meeting: Convene one week prior to commencing work of this section.
 - 1. Require attendance of parties directly affecting work of this section.
 - 2. Review conditions of installation, installation procedures, shoring, and coordination with related work.

1.07 SUBMITTALS

- A. See Section 01 00 00 - General Requirements for submittal procedures.
- B. Shop Drawings: Detail shoring.
- C. Product Data: Provide data on cleaning solutions.
- D. Samples: Submit four samples of face brick to illustrate matching color, texture and extremes of color range.
- E. Manufacturer's Instructions: For cleaning materials, indicate special procedures, conditions requiring special attention.

1.08 QUALITY ASSURANCE

- A. Comply with provisions of TMS 402/602, except where exceeded by requirements of Contract Documents.
- B. Restorer: Company specializing in masonry restoration with minimum three years of documented experience.

1.09 MOCK-UP - BRICK REPAIRS

- A. Execute repairs at existing masonry wall area sized 2 feet long by full height.
- B. Locate where directed.
- C. Acceptable panel and procedures employed will become the standard for the work of this section.
- D. Approved mock-up may remain as part of the Work.

1.10 DELIVERY, STORAGE AND HANDLING

- A. Deliver masonry neatly stacked and tied on pallets. Store clear of ground with adequate waterproof covering.
- B. Store blast medium materials in manufacturer's packaging.

1.11 FIELD CONDITIONS

- A. Cold and Hot Weather Requirements: Comply with requirements of TMS 402/602 or applicable building code, whichever is more stringent.
- B. Do not blast clean or use process creating dust or dirt when wind is over 10 mph.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Brick:
 - 1. Belden Brick: www.beldenbrick.com
 - 2. Endicott Clay Products Co: www.endicott.com
 - 3. Glen-Gery Corporation: www.glengery.com
 - 4. Approved Equal
- B. Restoration and Cleaning Chemicals:
 - 1. Diedrich Technologies, Inc: www.diedrichtechnologies.com.
 - 2. PROSOCO: www.prosoco.com.
 - 3. Approved Equal.

2.02 MASONRY MATERIALS

- A. Clay Facing Brick: ASTM C 216, Grade SW Type FBS (below grade to 1 course above grade), Type FBX (above grade).
 - 1. Color, texture, and size match existing.
 - 2. Special Shapes: Molded units to form all acute or obtuse angles at corners to be rebuilt.

2.03 MORTAR MATERIALS

- A. Manufacturers:
 - 1. SPEC MIX, LLC: www.specmix.com.
 - 2. Amerimix: amerimix.com.
 - 3. Approved Equal.
- B. Mortar for Setting and Repointing: Provide Type "N" mortar in compliance with ASTM C 270 for repointing, in accordance with the general guidelines offered in ASTM E 2260-03(2012) Guide for Pointing (Tuckpointing) Historic Masonry.
 - 1. Portland cement, lime mortar: 1 part cement, 1 part lime, 6 parts sand.
 - a. Portland Cement: ASTM C 150, Type I or II, except Type III may be used for cold-weather construction. Provide natural color or white cement as required to produce mortar color to match existing.
 - b. Hydrated Lime: ASTM C 207, Type S.
 - c. Portland Cement-Lime Mix: Packaged blend of portland cement complying with ASTM C 150, Type I or II, and hydrated lime complying with ASTM C 207.
 - d. Aggregate for Mortar: ASTM C 144; except, for joints less than 1/4 inch thick, use aggregate graded with 100 percent passing the No. 16 sieve.

2.04 REINFORCEMENT AND ANCHORAGE

- A. Manufacturers:
 - 1. Helifix by Leviaat: www.helifix.com.
 - 2. Hohmann & Barnard, Inc.: www.h-b.com.
 - 3. THOR-Helical USA: thorhelicalusa.com.
 - 4. Approved Equal.
- B. Ties: Hohmann and Barnard, 304 stainless steel, 345-BT Flexible Tie, face fastened to substrate, or approved equal

2.05 ACCESSORIES

- A. Cleaning Solution:
 - 1. Existing masonry: Non-acidic, not harmful to masonry work or adjacent materials.
 - 2. New Masonry: Acidic, compatible with masonry and mortar materials.
 - a. Protect all adjacent materials from splatter, overspray, and runoff.

3. Manufacturers:
 - a. Diedrich Technologies, Inc: www.diedrichtechnologies.com.
 - b. PROSOCO: www.prosoco.com.
 - c. Approved Equal.

B. Insulation:

1. Install new XPS insulation board where missing or damaged.
 - a. Provide Dupont CavityMate, Owens Corning FOAMULAR 250, or approved equal.
 - b. Thickness to match existing.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces to be cleaned are ready for work of this section.
- B. Verify that related items provided under other sections are properly sized and located.
- C. Verify that built-in items, if any, are in proper location and ready for roughing into masonry work.

3.02 PREPARATION

- A. Protect surrounding elements from damage due to restoration procedures.
- B. Carefully remove and store removable items located in areas to be restored, including fixtures, fittings, finish hardware, and accessories; reinstall upon completion.
- C. Separate areas to be protected from restoration areas using means adequate to prevent damage.
- D. Mask immediately adjacent surfaces with material that will withstand cleaning and restoration procedures.
- E. Provide means to contain construction debris to the work and designated areas.
- F. When using cleaning methods that involve water or other liquids, install drainage devices to prevent runoff over adjacent surfaces, unless those surfaces are impervious to damage from runoff.
- G. Do not allow cleaning runoff to drain into sanitary or storm sewers.

3.03 REBUILDING

- A. Build in new units per the following procedures:
 1. Ensure waterproofing has been properly placed.
 2. Install brick ties:

- a. From the shelf to the bottom of the through-wall flashing at least one course above grade, provide a tie every 2.6 ft² of wall area. Start ties one brick course above the shelf.
 - b. From the new flashing level up three courses, provide one row of ties at the second brick course above the flashing. Space ties a maximum of every 24" horizontally.
3. Install new XPS insulation board where missing or damaged.
 - a. New and/or existing insulation shall be continuous across the outside face of foundation wall within the excavated area.
 - b. New and/or existing insulation shall be continuous on the backup wall from the brick shelf up to the top of brick removal.
 - c. Attach insulation board with adhesive against the waterproofing to secure insulation until the backfill peastone is placed. Verify waterproofing manufacturer's sealant for insulation bonding.
 4. Brick Placement:
 - a. Lay solid masonry units in full bed of mortar, with full head, bed, and collar joints uniformly jointed with other work.
 - b. Butter ends with enough mortar to fill head joints and shove into place. Wet both replacement and surrounding bricks that have ASTM C 67 initial rates of absorption (suction) of more than 30 g/30 sq. in. per mm. Use wetting methods that ensure that units are nearly saturated, but surface is dry when laid.
 - c. Tool exposed mortar joints in repaired areas to match joints of surrounding existing brickwork.
 - d. Rake out mortar used for laying brick before mortar sets.
 - e. When mortar is hard enough to support units, remove shims and other devices interfering with pointing of joints.
 - f. Buttering corners of joints or excessive furrowing of mortar joints is not permitted.
 - g. Remove excess mortar and mortar smears as work progresses.
 - h. Interlock intersections and external corners, except for units laid in stack bond.
 - i. Do not shift or tap masonry units after mortar has achieved initial set. Where adjustment must be made, remove mortar and replace.
 - j. Perform job site cutting of masonry units with proper tools, to provide straight, clean, unchipped edges. Prevent broken masonry unit corners or edges.
- B. Hairline cracking within the mortar or mortar separation at edge of a joint is unacceptable. Completely remove such mortar and repoint.
 - C. Curing: Cure mortar by maintaining in thoroughly damp condition for at least 72 consecutive hours
 - D. Mortar Mix: Colored and proportioned to match existing work.
- ### 3.04 TOLERANCES
- A. Install masonry within the site tolerances found in TMS 402/602.

- B. Maximum Variation from Alignment of Columns: 1/4 inch.
- C. Maximum Variation from Unit to Adjacent Unit: 1/16 inch.
- D. Maximum Variation from Plane of Wall: 1/4 inch in 10 feet and 1/3 inch in 20 feet or more.
- E. Maximum Variation from Plumb: 1/4 inch per story non-cumulative; 1/2 inch in two stories or more.
- F. Maximum Variation from Level Coursing: 1/8 inch in 3 feet and 1/4 inch in 10 feet; 1/2 inch in 30 feet.
- G. Maximum Variation of Mortar Joint Thickness: Head joint, minus 1/4 inch, plus 3/8 inch.
- H. Maximum Variation from Cross Sectional Thickness of Walls: 1/4 inch.

3.05 CUTTING AND FITTING

- A. Cut and fit for chases, piped, conduit, sleeves, and grounds.
- B. Obtain approval prior to cutting or fitting masonry work not indicated or where appearance or strength of masonry work may be impaired.

3.06 CLEANING - GENERAL

- A. Immediately remove stains, efflorescence, or other excess resulting from the work of this section.
- B. Remove excess mortar, smears, and droppings as work proceeds and upon completion.
- C. Clean surrounding surfaces.

3.07 CLEANING NEW MASONRY

- A. Verify mortar is fully set and cured.
- B. Clean surfaces and remove large particles with wood scrapers, brass, or nylon wire brushes.
- C. Use acid solution mixed with water in accordance with manufacturer's instructions. Apply acid solution and scrub masonry with stiff fiber brushes. Do not scrub the mortar joints.
- D. Protect area below cleaning operation and keep existing masonry soaked with water and flushed free of acid and dissolved mortar continuously for duration of cleaning.
- E. Before solution dries, rinse and remove acid solution and dissolved mortar using clean, pressurized water.

3.08 PROTECTION

- A. Without damaging completed work, provide protective boards at exposed external corners that are subject to damage by construction activities.

END OF SECTION

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SECTION 07 13 00
SELF-ADHERED SHEET WATERPROOFING

PART 1 GENERAL

1.01 GENERAL REQUIREMENTS

- A. Attention is directed to the General and Supplementary Conditions and Division 1 and Division 2, including all subdivisions thereof, as listed in the Table of Contents, which are made a part of this Section.

1.02 SCOPE

- A. Apply sheet membrane 10 inches below the brick shelf, over the brick shelf, and up wall two courses of brick above finished grade.
1. Clean and prime, as needed, all surfaces to receive new waterproofing.
 2. Verify compatibility of new waterproofing to lap 3" over existing waterproofing. Terminate with compatible mastic.

1.03 RELATED SECTIONS

- A. Section 02 41 00 - Selective Demolition
- B. Section 03 01 00 - Concrete Repair
- C. Section 04 01 00 - Maintenance of Masonry
- D. Section 07 62 00 - Flashing and Sheet Metal
- E. Section 07 92 00 - Joint Sealants

1.04 PRICE AND PAYMENT PROCEDURES

- A. See Section 01 04 00 - Unit Prices, for additional unit price requirements.

1.05 REFERENCES

- A. Referenced Standards: These standards form part of this specification only to the extent they are referenced as specification requirements.
1. ASTM C 836 - Standard Specification for High Solids, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course
 2. ASTM D 412 - Standard Test Methods for Rubber Properties in Tension
 3. ASTM D 570 - Standard Test Method for Water Absorption of Plastics
 4. ASTM D 882 - Standard Test Methods for Tensile Properties of Thin Plastic Sheeting
 5. ASTM D 903 - Standard Test Method for Peel or Stripping Strength of Adhesive Bonds
 6. ASTM D 1876 - Standard Test Method for Peel Release of Adhesives (T-Peel)
 7. ASTM D 3767 - Standard Practice for Rubber - Measurements of Dimensions

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8. ASTM D 5385 - Standard Test Method for Hydrostatic Pressure Resistance of Waterproofing Membranes
9. ASTM E 96 - Standard Test Methods for Water Vapor Transmission of Materials

1.06 SUBMITTALS

- A. Product Data
 1. Product Data: Include manufacturer's written instructions for evaluating, preparing, and treating substrate, technical data, and tested physical and performance properties of waterproofing.
- B. Installation Instructions: Provide manufacturer's instructions to installer, marked up to show exactly how all components will be installed; where instructions allow installation options, clearly indicate which option will be used.
- C. Shop Drawings - Provide
 1. Plans showing locations and extent of waterproofing.
 2. The waterproofing membrane manufacturer's standard details customized for this project for all relevant conditions, including substrate joints and cracks, sheet flashings, penetrations, inside and outside corners, tie-ins with adjoining waterproofing, and other termination conditions.
- D. Installer Certificates: Signed by manufacturers, certifying that installers comply with requirements.
- E. Sample Warranty: Copy of special waterproofing manufacturer's and Installer's warranty stating obligations, remedies, limitations, and exclusions before starting waterproofing.

1.07 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified installer who is acceptable to waterproofing manufacturer to install manufacturer's products.
- B. Source Limitations: Obtain waterproofing materials through one source from a single manufacturer.
- C. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 1. Review requirements for waterproofing, including surface preparation specified under other Sections, substrate condition and pretreatment, minimum curing period, forecasted weather conditions, special details and sheet flashings, installation procedures, testing and inspection procedures, and protection and repairs.

1.08 DELIVERY, STORAGE AND HANDLING

- A. Deliver liquid materials to Project site in original packages with seals unbroken, labeled with manufacturer's name, product brand name and type, date of manufacture, and directions for storing and mixing with other components.

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- B. Store liquid materials in their original undamaged packages in a clean, dry, protected location and within the temperature range required by the waterproofing manufacturer.
- C. Remove and replace liquid materials that cannot be applied within their stated shelf life.
- D. Store rolls according to manufacturer's written instructions.
- E. Protect stored materials from direct sunlight.

1.09 PROJECT CONDITIONS

- A. Environmental Limitations: Apply waterproofing within the range of ambient and substrate temperatures recommended by waterproofing manufacturer. Do not apply waterproofing to a damp or wet substrate. Do not apply waterproofing in snow, rain, fog, or mist.
- B. Maintain adequate ventilation during preparation and application of waterproofing materials.

1.10 WARRANTY

- A. Guarantee all work under this Section in a document stating that if, within three years after the Date of Final Acceptance of the Work, any of the work of this Section is found to be defective or not in accordance with the Contract Documents, the Contractor shall correct it promptly after receipt of a written notice from the Owner to do so. The Contractor shall bear all costs incurred by the Owner, including reasonable attorney's fees, to enforce compliance with the obligations of this Guarantee. The obligation of these guarantees shall run directly to the Owner and may be enforced by the Owner against the Contractor, shall survive the termination of the Contract, and shall not be limited by any conditions other than this Contract.
- B. Perform all work of this section in a manner consistent with achieving the waterproofing manufacturer's Standard 5-year Limited Warranty covering waterproofing membrane, protection board, and membrane accessories. Comply with all warranty procedures regularly required by manufacturer, including notifications, scheduling, and inspections.
- C. Warranty includes removing and reinstalling pea stone against foundation and brick to expose defective conditions.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Rubberized-Asphalt Sheet Waterproofing - Post-Applied:
 1. GCP Applied Technologies; Bituthene 3000 (Basis of Design)
 2. W. R. Meadows MEL-ROL Sheet with MEL-ROL Liquid Membrane
 3. Carlisle MiraDRI 860/861 with CCW LM800-XL mastic
 4. Approved equal

2.02 RUBBERIZED-ASPHALT SHEET WATERPROOFING

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- A. Rubberized-Asphalt Sheet: 60 mil-thick self-adhering sheet, consisting of 56 mils of rubberized asphalt laminated to a 4 mil-thick polyethylene film with release liner on adhesive side.
1. Physical Properties: As follows, measured per standard test methods referenced:
 - a. Tensile Strength: 325 psi minimum, ASTM D 412, Die C, modified.
 - b. Ultimate Elongation: 300 percent minimum; ASTM D 412, Die C, modified.
 - c. Low-Temperature Flexibility: Pass at minus 20 °F ASTM D 1970.
 - d. Puncture Resistance: 50 lbf minimum, ASTM E 154.
 - e. Hydrostatic-Head Resistance: 200 feet (minimum, ASTM D 5385).
 - f. Water Absorption: 0.15 percent weight-gain maximum after 48-hour immersion at 70 °F; ASTM D 570.
 - g. Vapor Permeance: 0.05 perms maximum; ASTM E 96, Water Method.

2.03 AUXILIARY MATERIALS

- A. General: Furnish auxiliary materials recommended by waterproofing manufacturer for intended use and compatible with sheet waterproofing.
1. Furnish liquid-type auxiliary materials that comply with VOC limits of authorities having jurisdiction.
- B. Primer: Liquid primer recommended for substrate by manufacturer of sheet waterproofing material.
- C. Surface Conditioner: Waterborne liquid surface conditioner recommended for substrate by manufacturer of sheet waterproofing material.
- D. Sheet Strips: Self-adhering, rubberized-asphalt composite sheet strips of same material and thickness as sheet waterproofing.
- E. Liquid Membrane: Elastomeric cold fluid applied, trowel grade or low viscosity as offered by the membrane manufacturer for use with the waterproofing membrane.
- F. Substrate Patching Membrane: Low-viscosity, two-component, asphalt-modified coating.
- G. Mastic, Adhesives, and Tape: Liquid mastic and adhesives, and adhesive tapes recommended by waterproofing manufacturer.
1. Detail Tape: Two-sided, pressure-sensitive, self-adhering reinforced tape, 4-1/2 inches wide, with a tack-free protective adhesive coating on one side and release film on self-adhering side.
- H. Metal Termination Bars: Aluminum bars, approximately 1 by 1/8 inch thick, predrilled at 9 inch centers.
- I. Protection Course:
1. Asphalt Hardboard: A premolded semi-rigid protection board consisting of bitumen, mineral core and reinforcement. Provide 3 mm (0.125 in.) thick hardboard on horizontal surfaces not receiving steel reinforced slab. Where steel reinforcing bars

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are to be used, apply two layers of 3 mm (0.125 in.) thick hardboard or one layer of 6 mm (0.25 in.) thick hardboard.

PART 3 INSTALLATION

3.01 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance.
 - 1. Verify that concrete patching mortar has cured and aged for minimum time period recommended by waterproofing manufacturer, but not less than seven (7) days.
 - 2. Verify that concrete is visibly dry and free of moisture. Test for capillary moisture by plastic sheet method according to ASTM D 4263.
 - 3. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 SURFACE PREPARATION

- A. Clean, prepare, and treat substrates according to manufacturer's written instructions. Provide clean, dust-free, and dry substrates for waterproofing application.
- B. Mask off adjoining surfaces not receiving waterproofing to prevent spillage and overspray affecting other construction.
- C. Ensure all grease, oil, bitumen, form-release agents, paints, curing compounds, waterproofing, and other penetrating contaminants or film-forming coatings have been removed from surfaces to receive waterproofing.
- D. Remove fins, ridges, mortar, and other projections and fill honeycombs, aggregate pockets, holes, and other voids.
- E. Prepare, fill, prime, and treat joints and cracks in substrates. Remove dust and dirt from joints and cracks according to ASTM D 4258.
- F. Bridge and cover isolation joints and expansion joints per the manufacturer's printed recommendations.
- G. Corners: Apply waterproofing at all inside and outside corners per the manufacturer's requirements.

3.03 RUBBERIZED-ASPHALT SHEET APPLICATION

- A. Install self-adhering sheets according to waterproofing manufacturer's written instructions and recommendations in ASTM D 6135.
- B. Apply primer to substrates at required rate and allow to dry. Limit priming to areas that will be covered by sheet waterproofing in same day. Reprime areas exposed for more than 24 hours.
- C. Apply and firmly adhere sheets over area to receive waterproofing. Accurately align sheets and maintain uniform 2-1/2 inch, minimum, lap widths and end laps. Overlap and seal seams and stagger end laps to ensure watertight installation.

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1. When ambient and substrate temperatures range between 25 and 40 °F, install self-adhering, rubberized-asphalt sheets produced for low-temperature application. Do not use low-temperature sheets if ambient or substrate temperature is higher than 60 °F.
- D. Horizontal Application: Apply sheets from low point to high point to ensure that side laps shed water.
 - E. Apply continuous sheets over sheet strips bridging substrate cracks, construction, and contraction joints.
 - F. Seal exposed edges of sheets at terminations not concealed by metal counterflashings or ending in reglets with mastic or sealant.
 - G. Install sheet waterproofing and auxiliary materials to tie into adjacent waterproofing as applicable.
 - H. Repair tears, voids, and lapped seams in waterproofing not complying with requirements. Slit and flatten fishmouths and blisters. Patch with sheets extending 6 inches beyond repaired areas in all directions.
 - I. Correct deficiencies in or remove sheet waterproofing that does not comply with requirements; repair substrates, reapply waterproofing, and repair sheet flashings.

3.04 FIELD QUALITY CONTROL

- A. Hose Testing: Test work areas with directed hose stream of water in accordance with ASTM E 2128 using and ASTM E1105 calibrated spray rack and AAMA 501.2 nozzle.
 1. Test after waterproofing and counterflashing is complete but before overburden is installed.
 2. Apply water along each horizontal and vertical waterproofed surface at a rate of one (1) minute per linear foot using an AAMA nozzle.
 - a. Hold water stream below top of counterflashing; do not apply water to the termination bar or brick above repaired area, initially. Once performance is verified below the through-wall flashing level, apply spray at the upper termination bar level at the same rate.
 3. At Column Line 15, apply water to the entire repaired area using an ASTM E1105 spray rack. Test area for 30 minutes.
 4. After testing, repair leaks, repeat tests, and make further repairs until waterproofing installation is watertight.
- B. Engage an Independent Testing Agency to observe flood testing and examine underside of decks and terminations for evidence of leaks during testing.

3.05 PROTECTION AND CLEANING

- A. Protect waterproofing from damage and wear during remainder of construction period.
- B. Protect installed materials from damage due to ultraviolet light, harmful weather exposures, physical abuse, and other causes. Provide temporary coverings where

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materials will be subject to abuse and cannot be concealed and protected by permanent construction immediately after installation.

- C. Clean spillage and soiling from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

END OF SECTION

**SECTION 07 62 00
FLASHING AND SHEET METAL**

PART 1 GENERAL

1.01 GENERAL REQUIREMENTS

- A. Attention is directed to the General and Supplementary Conditions and Division 1 and Division 2, including all subdivisions thereof, as listed in the Table of Contents, which are made a part of this Section.

1.02 SUMMARY

- A. Furnish labor, materials, equipment, and services necessary for complete installation of flashing, as follows:
 - 1. Install metal through-wall flashing against the waterproofing with the top leg fastened using a stainless steel termination bar. Waterproofing behind flashing shall not extend above the termination bar.

1.03 RELATED SECTIONS

- A. Coordinate the work of this Section with related work in other sections.
 - 1. Section 03 01 00 - Concrete Repair
 - 2. Section 07 92 00 - Joint Sealants

1.04 PRICE AND PAYMENT PROCEDURES

- A. See Section 01 04 00 - Unit Prices, for additional unit price requirements.

1.05 REFERENCES

- A. Sheet Metal and Air Conditioning Contractors National Association, Inc. (SMACNA) Architectural Sheet Metal Manual.
- B. ASTM A 167- Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
- C. ASTM A 240 - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications
- D. ASTM A 525 - Steel Sheet, Zinc Coated, (Galvanized) by the Hot-Dip Process.
- E. ASTM A 480 - Standard Specification for General Requirements for Flat-Rolled Stainless and Heat-Resisting Steel Plate, Sheet, and Strip
- F. ASTM B 209 - Aluminum and Aluminum Alloy Sheet and Plate.
- G. NAAMM - Metal Finishes Handbook.

1.06 SUBMITTALS

- A. Submit two samples of all fabricated items to be used to Designer of Record for approval.

PART 2 PRODUCTS

2.01 METAL FLASHING

- A. Stainless steel through-wall flashing drip:
 - 1. ASTM A 167, type 302/304, 2D finish.
 - 2. Thickness: Provide 26 gauge (0.019 inch)
- B. Metal clad, self-adhered membrane, through wall flashing:
 - 1. Hohmann and Barnard Mighty-Flash™ SA (stainless steel, self-adhered)

2.02 ACCESSORIES

- A. Fasteners:
 - 1. Termination Bar Anchors: 400 series stainless steel screws/spikes, 300 series stainless steel nail-ins of type appropriate for secure anchoring of termination bar.
 - 2. All fasteners shall match the material being fastened or be 300 series stainless steel.
- B. Termination Bar: Hohmann and Bernard T2, or equal, made from 300 Series stainless steel.
- C. Primer:
 - 1. Provide primer offered by the through-wall flashing manufacturer as needed for proper bond to concrete and brick surfaces – Hohmann and Barnard Primer-SA
- D. Sealant:
 - 1. HB Sealant to be used at all edges in HB Mighty-Flash and at HB Mighty-Flash to stainless steel drip edge interface. HB Sealant to also be used along the top edge of the termination bar.

PART 3 EXECUTION

3.01 PREPARATION

- A. Layout locations for all flashings before proceeding with work.
- B. Remove any protruding debris/materials from substrate where flashing is to be installed. Vertical flashing legs must lay flat against substrate, particularly where water-resistive barrier or reinforced liquid-applied membrane flashing material is to lap over the flashing.
- C. Starting work shall indicate acceptance of conditions.
- D. Prime all surfaces to receive flashing. Reapply primer if left for more than 24 hours.

3.02 INSTALLATION

- A. Field measure site conditions prior to fabricating work. Flashing shall be configured as shown in the drawings.
- B. Even if not indicated in drawings, exposed edges of flashing shall be hemmed. Bend radius will depend on gauge of metal used.
- C. Except as indicated, comply with all recommendations of the Architectural Sheet Metal Manual, Fifth Edition, by the Sheet Metal and Air Conditioning Contractors National Association (SMACNA) for installation and details.
- D. Form sections true to shape, accurate in size, square, and free from distortion or defects.
 - 1. All areas to receive flashing that are less than 10 feet in length shall be flashed with continuous flashing. Flashing shall not exceed 10 feet in length.
- E. Set drip edge over brick one course above grade. Set drip edge in a continuous bead of HB Sealant.
- F. Apply HB Mighty-Flash over primed concrete wall extending above the waterproofing approximately 3". Lap over the drip edge and hold back from brick face $\frac{3}{4}$ ".
- G. Apply HB Sealant at edges of HB Mighty-Flash at laps in Mighty-Flash and at the drip edge to Mighty-Flash interface. Tool the sealant to lap over the interface.
- H. Apply HB Sealant to the top edge of the termination bar and over the top edge of the repair mortar at the top of the dove tail slots.

3.03 CLEAN-UP AND PROTECTION

- A. Leave finished work in a neat condition.
 - 1. Dispose of scrap materials, trash, empty containers, etc., off job site or in a dumpster provided by the Contractor.
 - 2. Remove all temporary protection when no longer needed.
 - 3. Clean new and existing flashing surfaces using means approved by the manufacturer of the flashing finish.

END OF SECTION

SECTION 07 92 00 JOINT SEALANTS

PART 1 GENERAL

1.01 GENERAL REQUIREMENTS

- A. Attention is directed to the General and Supplementary Conditions and Division 1 and Division 2, including all subdivisions thereof, as listed in the Table of Contents, which are made part of this Section.

1.02 SCOPE

- A. Furnish labor, materials, equipment, and services necessary for complete installation of all sealant work, including:
 - 1. Application of backer material, primer, and sealant at expansion joints in brick.

1.03 RELATED WORK

- A. Coordinate the work of this Section with related work included in other sections.
 - 1. Section 03 01 00 - Concrete Repair
 - 2. Section 07 62 00 - Flashing and Sheet Metal

1.04 SUBMITTALS

- A. Submit manufacturer's data sheets and installation instructions for all sealants and related materials to be used by the Designer of Record for approval.
 - 1. Submit manufacturer's color chart for each sealant.
 - 2. Submit copy of manufacturer's warranties for each product.
- B. Submit each of the following samples for approval:
 - 1. One foot piece of each backer rod.

1.05 JOB CONDITIONS

- A. Examine all surfaces to receive sealant to verify all site conditions and dimensions by field measurements and verify that conditions are acceptable to receive the work specified.
 - 1. Notify the Designer of Record of all unacceptable surfaces and conditions found to be inconsistent with those indicated in the contract documents.
 - a. Modifications or additional work needed shall be determined by Designer of Record.
 - 2. Starting work in an area shall constitute acceptance of conditions.
- B. Joint width-to-depth ratios is critical to sealant performance. Compliance with the manufacturer's limitations is required. Report improperly sized or otherwise defective joints to the Designer of Record and do not apply sealant until conditions have been corrected. Refer to 3.08 - Figure 2 for typical sealant joint configuration.

1.06 QUALITY ASSURANCE AND TESTING

- A. Installer: A firm that has at least five years of experience on projects of similar scope.
- B. Field-Adhesion Testing: Allow for third party or manufacturer's representative to conduct field test of joint sealant adhesion to joint substrates as follows:
 - 1. Extent of Testing: Test completed on cured sealant joints. Allow for testing up to one area per 10 linear feet of each substrate type, a minimum of one test per location.
 - 2. Test Method: Test joint sealants according to Method A, Field-Applied Sealant Joint Hand Pull Tab, in Appendix X1 in ASTM C 1193 or Method A, Tail Procedure, in ASTM C 1521.
 - 3. Evaluation of Field-Adhesion Test Results: Sealants not evidencing adhesive failure from testing or noncompliance with other indicated requirements will be considered satisfactory. Remove sealants that fail to adhere to joint substrates during testing or to comply with other requirements. Retest failed applications until test results prove sealants comply with indicated requirements.
 - 4. Submit field adhesion test report to Designer of Record.
- C. Refer to 3.08 - Figure 1.
 - 1. The Contractor shall be responsible for patching test locations.
 - 2. The failure criteria for the sealant will vary according to the sealant used. Refer to 3.08 - Table 1 for sealant specific pass/fail criteria for sealant.
- D. Cooperate fully with the Designer of Record and provide full access to the work, both on and off the site.
 - 1. Allow inspectors on and off the staging as they may require for inspection of the work.

1.07 ENVIRONMENTAL CONDITIONS

- A. Perform work only when existing and forecasted weather conditions are within the limits established by the manufacturer of the system used and in no case when ambient and surface temperatures are below 40 °F (4.4 °C).
 - 1. Do not work in rain, snow, or in the presence of any moisture.
- B. Provide manufacturer's approved temporary protection methods to prevent water from getting behind the system.
- C. Coordinate scheduling of sealant work, as the work progresses, with the work of other Sections, so that exterior joints do not remain open and allow water to enter the finished work.
 - 1. Protect open joints and unfinished work not specified elsewhere from the weather until work areas can be made watertight.

1.08 SAMPLES REPAIRS

- A. Prepare sample installations of all repair methods specified. Determine locations and sizes for all repair samples with Designer of Record.
 - 1. Sample Repairs, approved by the Designer of Record, shall be used to establish a level of quality and workmanship.
 - 2. Samples not approved shall be removed and redone until approved by the Designer of Record.
 - 3. Approved Samples may remain as part of the finished work.

1.09 WARRANTIES

- A. Upon completion of the work and prior to substantial completion, submit to the Owner a written warranty stating that the work performed under this Section will be watertight and free from defective materials and workmanship for three (3) years from the date of substantial completion.
- B. Provide three copies of the manufacturer's twenty-year product warranty for all materials supplied.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturers listed in the specifications are used to establish a level of quality. Products and comparable systems by other manufacturers, deemed compatible to those specified, may be submitted for approval by the Owner's Representative.

2.02 PACKAGING

- A. Each container must bear an unbroken seal, batch number, and label of the manufacturer on delivery to the site. Failure to comply with these requirements shall be sufficient cause for rejection of the material in question.

2.03 SEALANTS

- A. All substrates shall be primed with manufacturer recommended primer for each substrate, unless satisfactory primeless adhesion is both documented in written manufacturer's instructions and verified by adhesion testing in the field.
- B. Polyurethane (colors selected by Owner) for porous-to-porous or metal-to-porous surfaces include:
 - 1. Master Builders MasterSeal NP-1
 - 2. Tremco Dymonic 100

2.04 ACCESSORIES

- A. Round Backer Rod: Closed cell or bi-cellular, non-gassing, polyethylene foam rod, SoftRod as manufactured by Armacell, KOOL-ROD as manufactured by W. R. Meadows, Inc., or HBR as manufactured by Nomaco.
 - 1. Rod diameter: Joint width plus 25 percent minimum, 33 percent maximum.

2. Rod skin to be continuous and unbroken to prevent out-gassing and voids in overlying sealant.
- B. Triangular Backer Rod: Closed cell, non-gassing, polyethylene foam rod, Norex as manufactured by Saint Gobain Performance Plastics.
1. Rod size: 1/4 inch x 1/4 inch, minimum.
 2. Rod skin to be continuous and unbroken to prevent out-gassing and voids in overlying sealant.

PART 3 EXECUTION

3.01 GENERAL

- A. Apply backer rod and sealants in accordance with the manufacturer's requirements and these specifications. Report conflicting requirements to the Owner's Representative in writing. Do not proceed with the work until the conflict has been resolved.
1. Installing work in accordance with the lesser of two conflicting requirements does not relieve the Contractor's responsibility to comply with the stricter requirement.
- B. Perform the work only when weather conditions are proper for the particular applications and in accordance with the requirements of the manufacturer.
- C. Coordinate sealant work with the work of other Sections, to prevent contamination of fresh sealant by ongoing work.

3.02 PROTECTION

- A. Protect existing surfaces from damage while completing the work of this Section. In the event of damage, immediately make all repairs and replacements necessary, to the approval of the Owner's Representative and at no additional cost.
- B. Schedule and execute all work without exposing building interior to the effects of inclement weather. Protect building occupants, interior, and the workers of other Sections during the work.
- C. Use appropriate tape to protect adjacent surfaces.

3.03 PREPARATION

- A. Verify that existing surfaces to receive sealant are clean, sound, and dry and that waterproofing does not extend above the termination bar.
1. Notify the Owner's Representative of unacceptable conditions immediately.
 2. Do not proceed with work until problem is resolved.
- B. Clean all surfaces as recommended by sealant manufacturer. Ensure that all material not compatible with the sealant to be installed has been removed from all joints to be sealed. The removal of foreign/incompatible material may involve means that can potentially damage the substrate, such as mechanical grinding, or chemical application.

Ensure that all foreign/incompatible materials are removed using the least aggressive means possible. Refer to Specification Section 02 41 00, Selective Demolition.

C. Apply masking tape as necessary to assure a neat, clean sealant joint.

3.04 PRIMER

A. Apply primer to all substrates recommended by the manufacturer and at locations that adhesion tests indicate require a primer for acceptable bond.

1. Apply only to clean, dry surfaces.
2. Prime/Reprime the joint, if required.

3.05 BACKER ROD

A. Take all measures to prevent three-sided adhesion.

B. Install backer rod in all joints to receive sealant in accordance with 3.08 - Figure 2, below.

1. Press backer rod into the joint with a proper tool, without stretching, so that the proper depth of sealant will be uniform, $\pm 1/8$ inch, for the full length of the joint.
2. Do not break skin of backer rod.
3. Install backer rod in longest continuous lengths practical. Tightly butt cut ends.
4. Do not twist or braid backer rod.
5. Install triangular backer rod where joint cannot accommodate round rod.

C. At movement joints that cannot receive a backer rod, install bond breaker tape, as approved by the Designer of Record.

3.06 SEALANT APPLICATION (Refer to 3.08 - Figure 2 for sealant joint configuration)

A. Apply sealant only to clean, dry surfaces.

1. Apply after primed surfaces are dry to the touch.
2. Apply only at temperatures between 40 °F (4.4 °C) and 80 °F (27 °C).

B. Apply sealant with a steady flow of sealant proceeding from the nozzle. Avoid overlapping of sealant to eliminate entrapment of air.

C. All joints must be tooled. Tool with dry tool only. Rectangular joints shall have a slight concave surface. Fillet joints shall be tooled such that thickness of sealant at the bond line is a minimum of 1-1/2 times thicker than the sealant at the middle of the joint. See 3.08 - Figure 2.

D. Remove excess sealant and soiling resulting from this work from adjacent surfaces as work progresses.

1. Use solvent or cleaning agent as recommended by sealant manufacturer.

2. Do not allow alcohol and other solvent cleaners to contact the sealant before it is fully cured.
3. Do not allow solvent cleaners to contact sensitive materials.
4. All finished work shall be left in a neat, clean condition.

3.07 CLEANING

- A. Clean all surfaces adjacent to new sealant joints.
 1. Clean metal and glass with solvent wipe.

3.08 ADDITIONAL INFORMATION

- A. See the following pages.

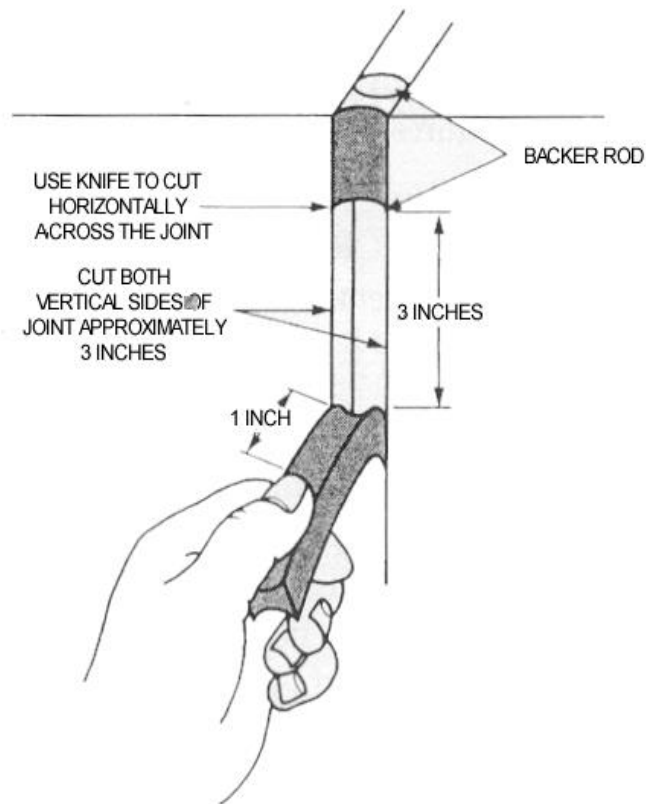
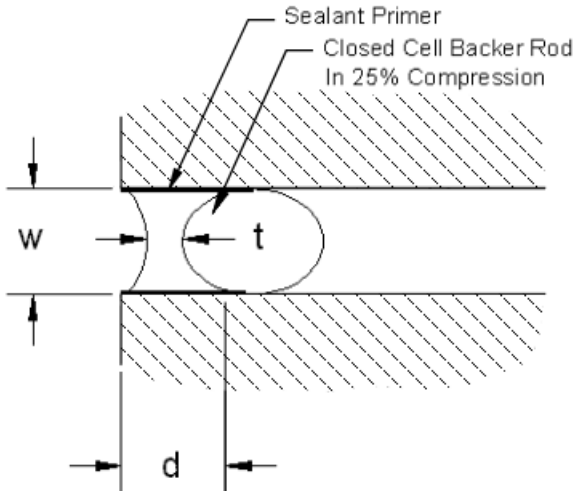


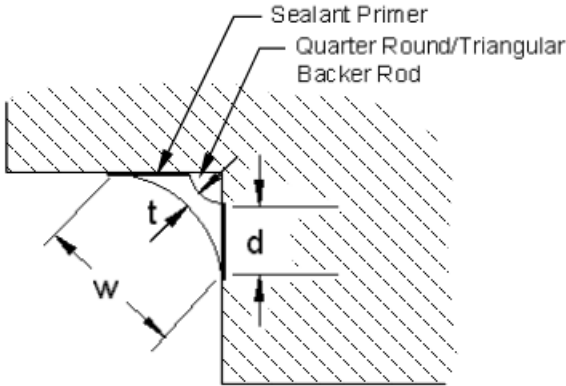
Figure 1 - Testing of Newly Installed Sealant



w - width of the sealant joint,
min. of 2 times the thickness "t"

t - thickness of the sealant joint at
 $\frac{1}{2}$ of "w", min. of $\frac{3}{16}$ " (4.8 mm), max. of
 $\frac{3}{8}$ " (9.5 mm)

d - depth of the sealant joint
at the bond line, must be a min.
of 1.5 times "t"



w - width of the sealant joint,
determined by the backer rod dimensions
and "t"

t - thickness of the sealant joint at
 $\frac{1}{2}$ of "w", min. of $\frac{3}{16}$ " (4.8 mm), max. of
 $\frac{1}{4}$ " (6.3 mm)

d - dimension of contact leg, must be a
min. of 1.5 times "t"

Figure 2 - Proper Configuration of Rectangular and Fillet Sealant Beads

END OF SECTION

RJK PROJECT Q749:

Base of Wall Repairs Bennie Dover Jackson Multi-Magnet Middle School

36 Waller St,
New London, CT 06320

New London Public Schools
134 Williams Street
New London, CT 06320

INDEX:

- A-001 COVER
- A-002 CODES/LEGEND
- A-101 REPAIR PLAN
- A-201 ELEVATIONS
- A-301 DETAILS
- A-401 REFERENCE PHOTOS

GENERAL NOTES:

1. INFORMATION SHOWN REGARDING EXISTING STRUCTURE USED IN THE DEVELOPMENT OF THESE DRAWINGS AND NOTES HAS BEEN BASED UPON A LIMITED VISUAL EXAMINATION OF EXPOSED CONDITIONS.
2. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS, EVEN THOUGH NOT SPECIFICALLY MARKED ON THE DRAWINGS.
3. PROVIDE NECESSARY PROTECTION/CONTAINMENT AND SAFE AND LEGAL DISPOSAL MEASURES PER APPLICABLE LAWS TO COMPLETE THE WORK.
4. VERIFY DIMENSIONS AND CONDITIONS BEFORE ORDERING MATERIALS; NOTIFY RJK OF ANY VARIATION FROM DRAWINGS.
5. DO NOT SCALE DRAWINGS. DIMENSIONS SHOWN ON THE DRAWINGS ARE TAKEN FROM ORIGINAL BUILDING DESIGN DOCUMENTS OR FROM SPOT FIELD MEASUREMENTS DURING INVESTIGATION. DIMENSIONS SHOWN ARE APPROXIMATE AND ARE PROVIDED FOR INFORMATION ONLY.
6. VERIFY EXISTING CONDITIONS AT THE JOB SITE PRIOR TO STARTING THE WORK, AND IMMEDIATELY NOTIFY RJK OF ANY DISCREPANCIES, OMISSIONS, OR OTHER CONDITIONS THAT MAY AFFECT THE SCOPE OF WORK PRIOR TO BEGINNING REPAIRS RELATED TO THE NOTED CONDITIONS.
7. COMPLY WITH THE RULES AND REGULATIONS APPLICABLE TO THE CITY OF NEW LONDON THE STATE OF CONNECTICUT, OSHA, AND AUTHORITIES HAVING JURISDICTION.
8. LEAVE INTACT AND UNDISTURBED ELEMENTS THAT ARE TO REMAIN. EXISTING FACILITIES AND SERVICES SHALL REMAIN IN USE DURING REPAIR WORK.
9. FURNISH AND PAY FOR LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK. SECURE AND PAY FOR PERMITS, LICENSES, AND GOVERNMENT FEES AS REQUIRED. COMPLY WITH CODES, ORDINANCES, RULES, REGULATIONS, ORDERS, AND OTHER LEGAL REQUIREMENTS OF PUBLIC AUTHORITY THAT BEAR ON THE PERFORMANCE OF THE WORK.
10. SUBMIT DEMOLITION AND CONSTRUCTION SCHEDULES TO THE OWNER FOR APPROVAL PRIOR TO BEGINNING DEMOLITION.
11. CONTRACTOR HAS SOLE CONTROL OVER CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND SCHEDULING PROCEDURES AND SAFETY PRECAUTIONS AND SAFETY PROGRAMS IN CONNECTION WITH THE PROJECT.
12. LIMIT ON-SITE STORAGE OF MATERIALS TO THOSE AREAS IDENTIFIED BY THE OWNER. DO NOT UNREASONABLY ENCUMBER THE SITE WITH MATERIALS OR EQUIPMENT. DO NOT LOAD THE STRUCTURE WITH WEIGHT THAT WILL ENDANGER THE STRUCTURE. ASSUME FULL RESPONSIBILITY FOR THE PROTECTION AND SAFEKEEPING OF PRODUCTS STORED ON THE PREMISES. MOVE STORED MATERIAL OR PRODUCTS THAT INTERFERE WITH THE OPERATIONS OF THE FACILITY. ONLY STORE MATERIAL IN AREAS PROVIDED BY THE OWNER.
13. TAKE WATER AND ELECTRICITY ONLY FROM AREAS IDENTIFIED BY THE OWNER. TOILET FACILITIES IN THE BUILDING SHALL NOT BE USED BY WORKERS.
14. PROVIDE AND MAINTAIN REQUIRED DUST BARRIERS, CANOPIES, BARRICADES, PROTECTION, AND WARNING LIGHTS IN GOOD CONDITION UNTIL THE COMPLETION OF THE WORK REQUIRING SUCH PROTECTION AND THEN REMOVE THE SAME. CANOPIES AND BARRICADES SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.
15. MAINTAIN PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIAL AND RUBBISH. REMOVE AND DISPOSE OF IN A PROPER MANNER (OFF-SITE) EXISTING MATERIAL REMOVED FROM THE BUILDING DURING THE COURSE OF THE WORK ON A DAILY BASIS. REMOVAL AND DISPOSAL SHALL BE SATISFACTORY TO THE OWNER.
16. RETURN DAMAGED AREAS TO ORIGINAL CONDITIONS.
17. PROTECT GROUNDS AND LANDSCAPING WHEN PERFORMING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO GROUNDS AND LANDSCAPING, AND BE REQUIRED TO REPAIR OR REPLACE AS NECESSARY.
18. COORDINATE USE OF PREMISES UNDER THE DIRECTION OF THE OWNER. THE OWNER RETAINS RIGHTS TO MAINTAIN AND OPERATE THE PROPERTY, INCLUDING ACCESS TO OTHER CONTRACTORS WHO MAY BE ON SITE WORKING UNDER SEPARATE CONTRACTS. CONTRACTORS' WORK SHALL NOT PROHIBIT SUCH ACTIVITY. DO NOT BLOCK EXISTING MEANS OF EGRESS. MAINTAIN SAFE ACCESS TO AND EGRESS FROM THE BUILDING AT ALL TIMES. TEMPORARY DISRUPTIONS TO THE USE OF ADJACENT BUILDINGS, INCLUDING NOISE, DUST, AND DISRUPTION OF UTILITIES, SHALL BE COORDINATED A MINIMUM OF 48 HOURS IN ADVANCE AND APPROVED BY THE OWNER.
19. ALL MATERIALS SHOWN ARE TO BE PROVIDED NEW UNLESS EXPLICITLY NOTED AS EXISTING OR SALVAGED.



2022-09 B.D.J.M.S Facade repair

R.-J. KENNEY ASSOCIATES, INC.
Building Enclosure Consulting & Testing Laboratory

72 Washington Street/P.O. Box 1748
Plainville, MA 02762-0748
T: (508) 695-1526 F: (508) 695-2898

Professional Seal:

**BASE OF WALL REPAIRS
BENNIE DOVER JACKSON
MULTI-MAGNET MIDDLE SCHOOL**

36 Waller St,
New London, CT 06320

No.	Date	Revision Description

Issue Date: 6/1/2022
Scale: As Indicated
Drawn By: MPG
Checked By: TEW
RJK Proj #: Q749

Sheet Title:

COVER

A-001

G:\Bids\Project\0749 Bennie Dover Middle School New London, CT\Biddg Design\Biddg\0749 Bennie Dover Repair Design_6/2022.rvt

Professional Seal:

BASE OF WALL REPAIRS
BENNIE DOVER JACKSON
MULTI-MAGNET MIDDLE SCHOOL
 36 Waller St.
 New London, CT 06320

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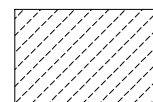



Sheet Title:
**CODES/
 LEGEND**

A-002

CODE REQUIREMENTS:

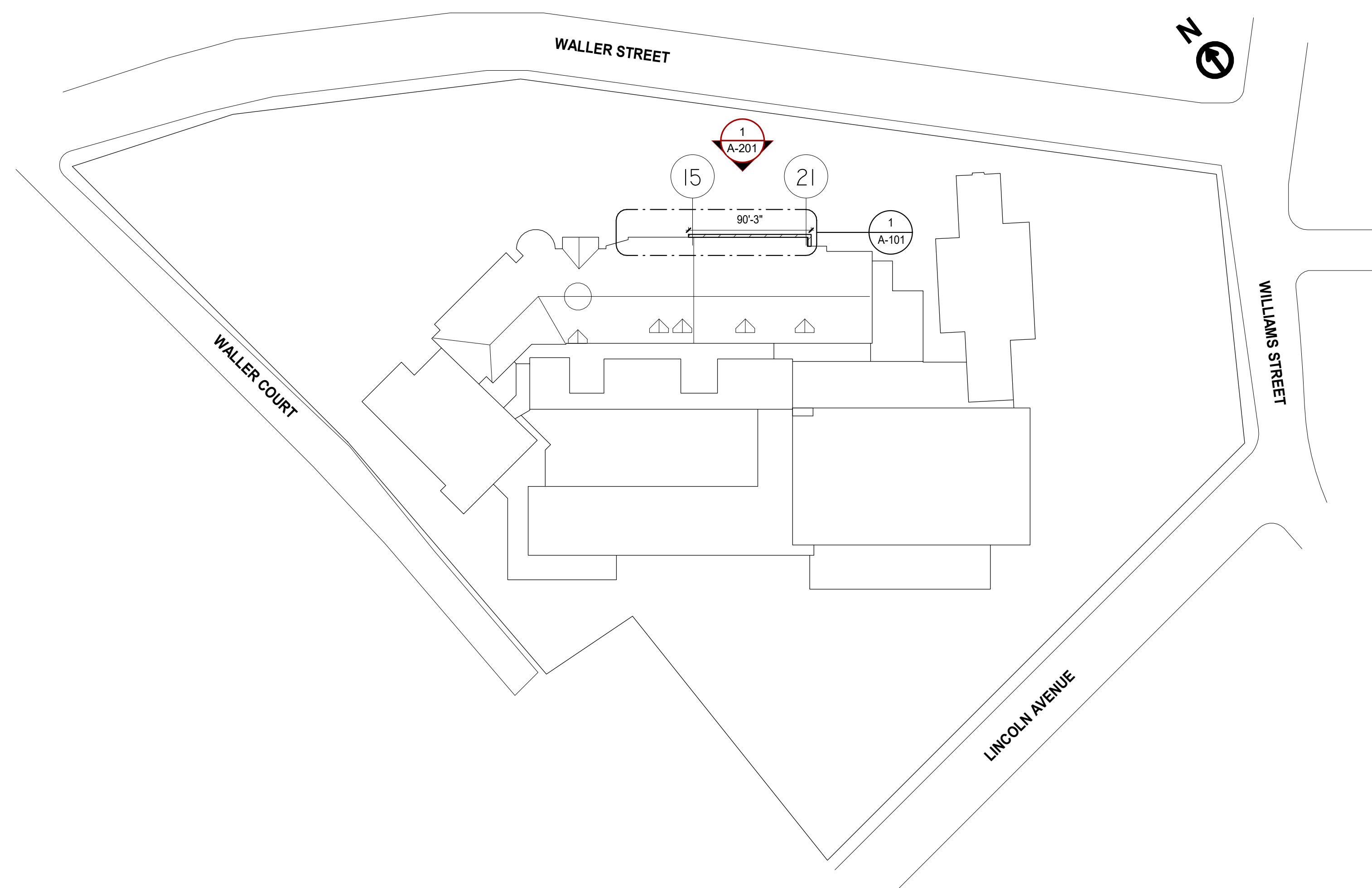
THE REPAIRS MUST MEET THE REQUIREMENTS OF THE 2018 CONNECTICUT STATE BUILDING CODE, WHICH IS COMPRISED OF THE FOLLOWING INTERNATIONAL CODE COUNCIL (ICC) DOCUMENTS WITH APPLICABLE STATE AMENDMENTS:
 2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
 2015 INTERNATIONAL BUILDING CODE (IBC)
 2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

LEGEND:

-  = EXTENT OF DEMOLITION
-  = BUILDING ELEVATION / DWG NUMBER WHERE SECTION APPEARS
-  = WALL SECTION OR DETAIL / DWG NUMBER WHERE SECTION APPEARS
-  = LIMITS OF WORK

ABBREVIATIONS:

AD	AREA DRAIN	HC	HOLLOW CORE
ALUM	ALUMINUM	HI	HIGH
ANOD	ANODIZED	HM	HOLLOW METAL
BSMT	BASEMENT	HP	HIGH POINT
BYND	BEYOND	INSUL	INSULATED OR INSULATION
BOT	BOTTOM	INT	INTERIOR
CI	CONTINUOUS INSULATION	LO	LOW
CIP	CAST-IN-PLACE	MAX	MAXIMUM
CHNL	CHANNEL	MO	MASONRY OPENING
CJ	CONTROL JOINT	MECH	MECHANICAL
CLG	CEILING	MEMBR	MEMBRANE
CLR	CLEAR	MIN	MINIMUM
CMU	CONCRETE MASONRY UNIT	MTL	METAL
COL	COLUMN	NIC	NOT IN CONTRACT
COMPR	COMPRESSIBLE	NO	NUMBER
CONC	CONCRETE	NOM	NOMINAL
CONT	CONTINUOUS	OC	ON CENTER
CPT	CARPET	OPP	OPPOSITE
CT	CERAMIC TILE	PCC	PRECAST CONCRETE
CTYD	COURTYARD	PLYD	PLYWOOD
DBL	DOUBLE	PT	PRESSURE TREATED
DEMO	DEMOLISH OR DEMOLITION	PNT	PAINT OR PAINTED
DIA	DIAMETER	PVC	POLYVINYL CHLORIDE
DIM	DIMENSION	RCP	REFLECTED CEILING PLAN
DIMS	DIMENSIONS	RD	ROOF DRAIN
DN	DOWN	REQD	REQUIRED
DR	DOOR	RM	ROOM
DWG	DRAWING	SIM	SIMILAR
EA	EACH	SPEC	SPECIFIED OR SPECIFICATION
EJ	EXPANSION JOINT	SPK	SPRINKLER OR SPEAKER
EL	ELEVATION	STSL	STAINLESS STEEL
ELEC	ELECTRICAL	STL	STEEL
ELEV	ELEVATOR OR ELEVATION	STRUCT	STRUCTURE OR STRUCTURAL
EPDM	ETHYLENE PROPYLENE DIENE MONOMER M-CLASS (ROOFING)	T&G	TONGUE AND GROOVE
EQ	EQUAL	TME	TO MATCH EXISTING
EXIST	EXISTING	TO	TOP OF
EXP JT	EXPANSION JOINT	TOC	TOP OF CONCRETE
EXT	EXTERIOR	TOS	TOP OF STEEL
FLR	FLOOR	TYP	TYPICAL
FND	FOUNDATION	UNO	UNLESS NOTED OTHERWISE
GA	GAUGE	U/S	UNDERSIDE
GALV	GALVANIZED	VIF	VERIFY IN FIELD
GWB	GYPSUM WALL BOARD	VP	VISION PANEL
		W/	WITH
		WD	WOOD



1 Site Plan
 SCALE: 1/64" = 1'-0"

Professional Seal:

Project Title:
**BASE OF WALL REPAIRS
 BENNIE DOVER JACKSON
 MULTI-MAGNET MIDDLE SCHOOL**
 36 Waller St.
 New London, CT 06320

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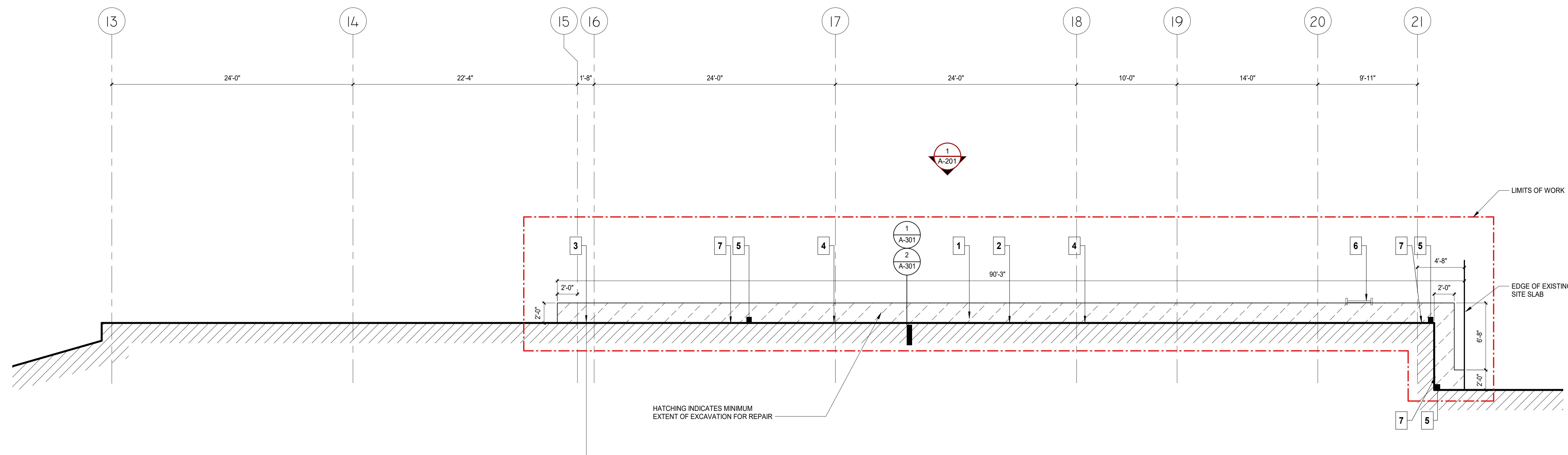
Issue Date: 6/1/2022
 Scale: As Indicated
 Drawn By: MPG
 Checked By: TEW
 RJK Proj #: Q749

Sheet Title:
REPAIR PLAN

A-101

NEW WORK NOTES

1. EXCAVATE SOIL AT BASE OF WALL TO 1'-0" MINIMUM BELOW THE BRICK SHELF, EXTEND EXCAVATION TO 2'-0" FROM FACE OF BRICK. BACKFILL WHEN REPAIRS ARE COMPLETE WITH PEA STONE.
2. SHELF WATERPROOFING REPAIRS:
 - A. REMOVE EXISTING BRICK VENEER FROM THE SHELF UP TO 4 COURSES ABOVE GRADE. REMOVE EXISTING INSULATION AND WATERPROOFING.
 - B. FILL EXISTING DOVETAIL SLOTS WITH REPAIR MORTAR TO TOP OF NEW THROUGH-WALL FLASHING UPTURN.
 - C. APPLY NEW SHEET-APPLIED WATERPROOFING MEMBRANE FROM OUTER FACE OF CONCRETE WALL, ACROSS SHELF, AND UP BACKUP WALL TO 2" BELOW TOP OF NEW THROUGH-WALL FLASHING UPTURN.
 - D. INSTALL NEW RIGID INSULATION ABOVE SHELF UP TO ONE BRICK COURSE ABOVE GRADE, THICKNESS TO MATCH EXISTING.
 - E. INSTALL NEW BRICK TO MATCH EXISTING ON SHELF UP TO ONE COURSE ABOVE GRADE. PROVIDE ADJUSTABLE MASONRY VENEER ANCHORS AS SPECIFIED, SET IN SEALANT AGAINST WATERPROOFING. PROVIDE CELL VENT WEEPS IN HEAD JOINTS ABOVE THE SHELF AT 48" OC.
 - F. FILL BRICK CAVITY WITH GROUT.
 - G. INSTALL SELF-ADHERED STAINLESS STEEL THROUGH-WALL FLASHING WITH CONTINUOUS DRIP EDGE. TURN FLASHING UP BACKUP WALL TO MINIMUM 8" ABOVE GRADE AND PROVIDE TERMINATION BAR AND SEALANT. EXTEND SEALANT INTO DOVETAIL SLOTS ACROSS TOP OF REPAIR MORTAR FILL.
 - H. INSTALL NEW RIGID INSULATION ABOVE THROUGH-WALL FLASHING TO MATCH EXISTING THICKNESS.
 - I. INSTALL NEW MORTAR NET CONTINUOUS ABOVE THROUGH-WALL FLASHING.
 - J. INSTALL NEW BRICK TO MATCH EXISTING UP TO EXISTING BRICK TO REMAIN. PROVIDE ADJUSTABLE MASONRY VENEER ANCHORS AS SPECIFIED, SET IN SEALANT AGAINST WATERPROOFING. PROVIDE CELL VENT WEEPS IN HEAD JOINTS ABOVE THE THROUGH-WALL FLASHING AT 24" OC.
3. EXPANSION JOINT REPAIR
 - A. REMOVE EXISTING EXPANSION JOINT ASSEMBLY FROM BRICK VENEER WITHIN THE WORK AREA, PROVIDE CLEAN CUT ON BOTTOM EDGE OF JOINT ASSEMBLY TO REMAIN.
 - B. PROVIDE GAP IN NEW BRICK INSTALLED PER SHELF WATERPROOFING REPAIRS, GAP TO MATCH EXISTING EXPANSION JOINT.
 - C. FILL GAP IN BRICK WITH OVERSIZED BACKER ROD AND SEALANT. MARRY SEALANT TO EXISTING EXPANSION JOINT ASSEMBLY ABOVE.
4. CONTROL JOINT REPAIR
 - A. REMOVE EXISTING CONTROL JOINT SEALANT AND BACKER ROD FROM BRICK VENEER WITHIN THE WORK AREA, PROVIDE CLEAN CUT ON BOTTOM EDGE OF JOINT ASSEMBLY TO REMAIN.
 - B. PROVIDE GAP IN NEW BRICK INSTALLED PER SHELF WATERPROOFING REPAIRS, GAP TO MATCH EXISTING CONTROL JOINT.
 - C. FILL GAP IN BRICK WITH OVERSIZED BACKER ROD AND SEALANT. MARRY SEALANT TO EXISTING CONTROL JOINT SEALANT ABOVE.
5. PROTECT EXISTING DOWNSPOUT TO REMAIN THROUGHOUT THE WORK.
6. MOVE EXISTING BIKE RACK AWAY FROM WALL TO CLEAR WORK AREA, REINSTALL IN EXISTING LOCATION WHEN REPAIRS ARE COMPLETE.
7. REMOVE EXISTING IVY FROM BRICK IN WORK AREA TO FULL HEIGHT OF THE IVY ON THE WALL.



1 REPAIR PLAN
 SCALE: 3/16" = 1'-0"

Professional Seal:

Project Title:
BASE OF WALL REPAIRS
BENNIE DOVER JACKSON
MULTI-MAGNET MIDDLE SCHOOL
 36 Waller St.
 New London, CT 06320

Revision No.	Date	Schedule	Revision Description

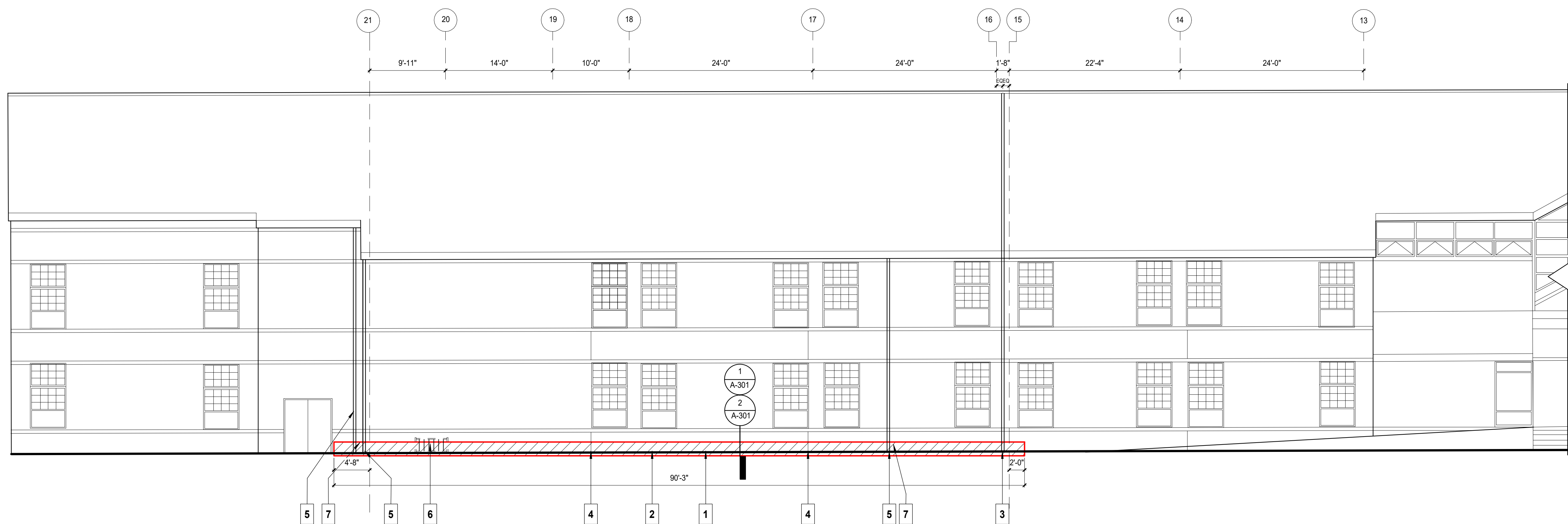
Issue Date: 6/1/2022
 Scale: As Indicated
 Drawn By: MPG
 Checked By: TEW
 RJK Proj #: Q749

Sheet Title:
NORTH ELEVATION

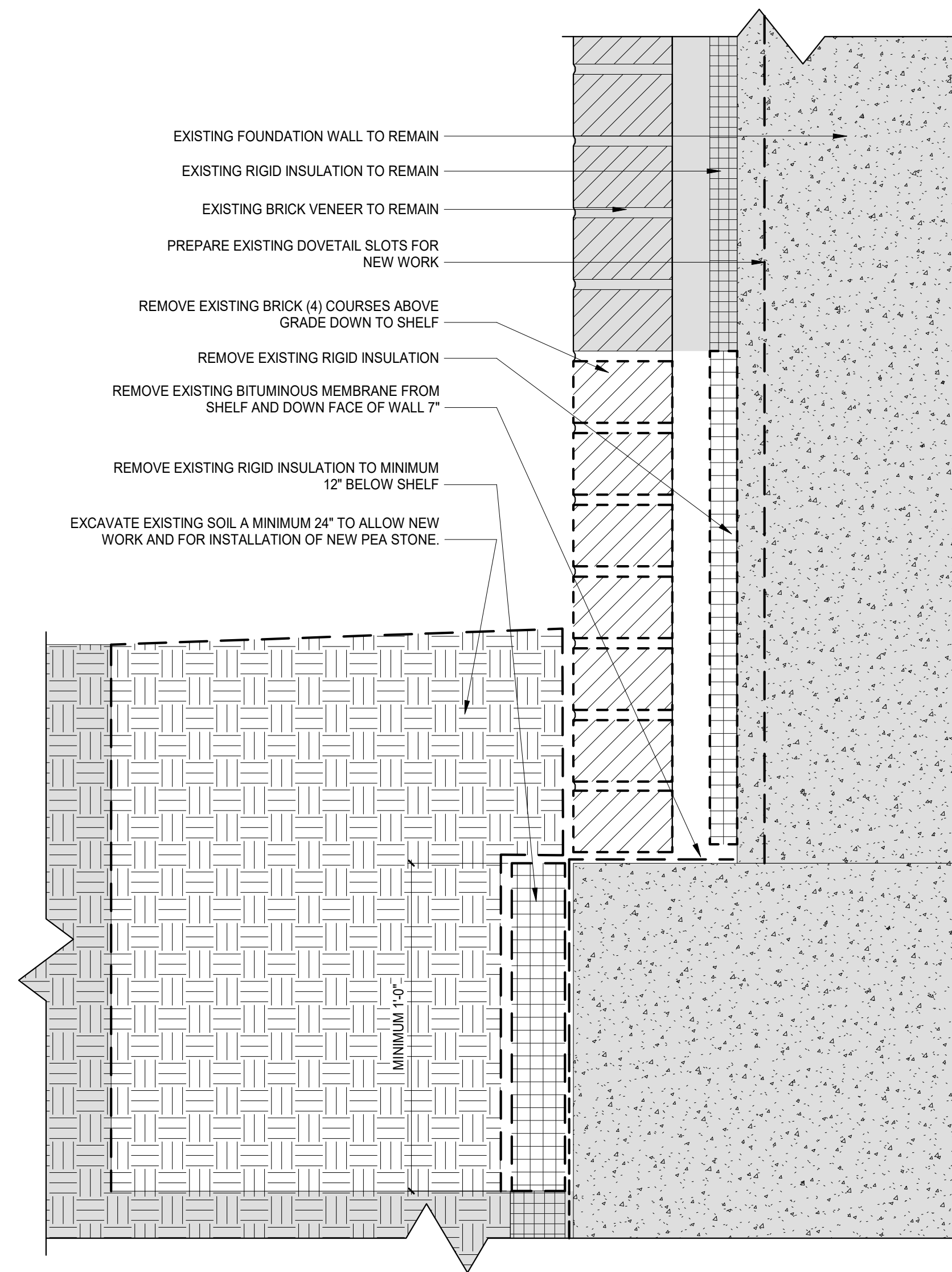
A-201

NEW WORK NOTES

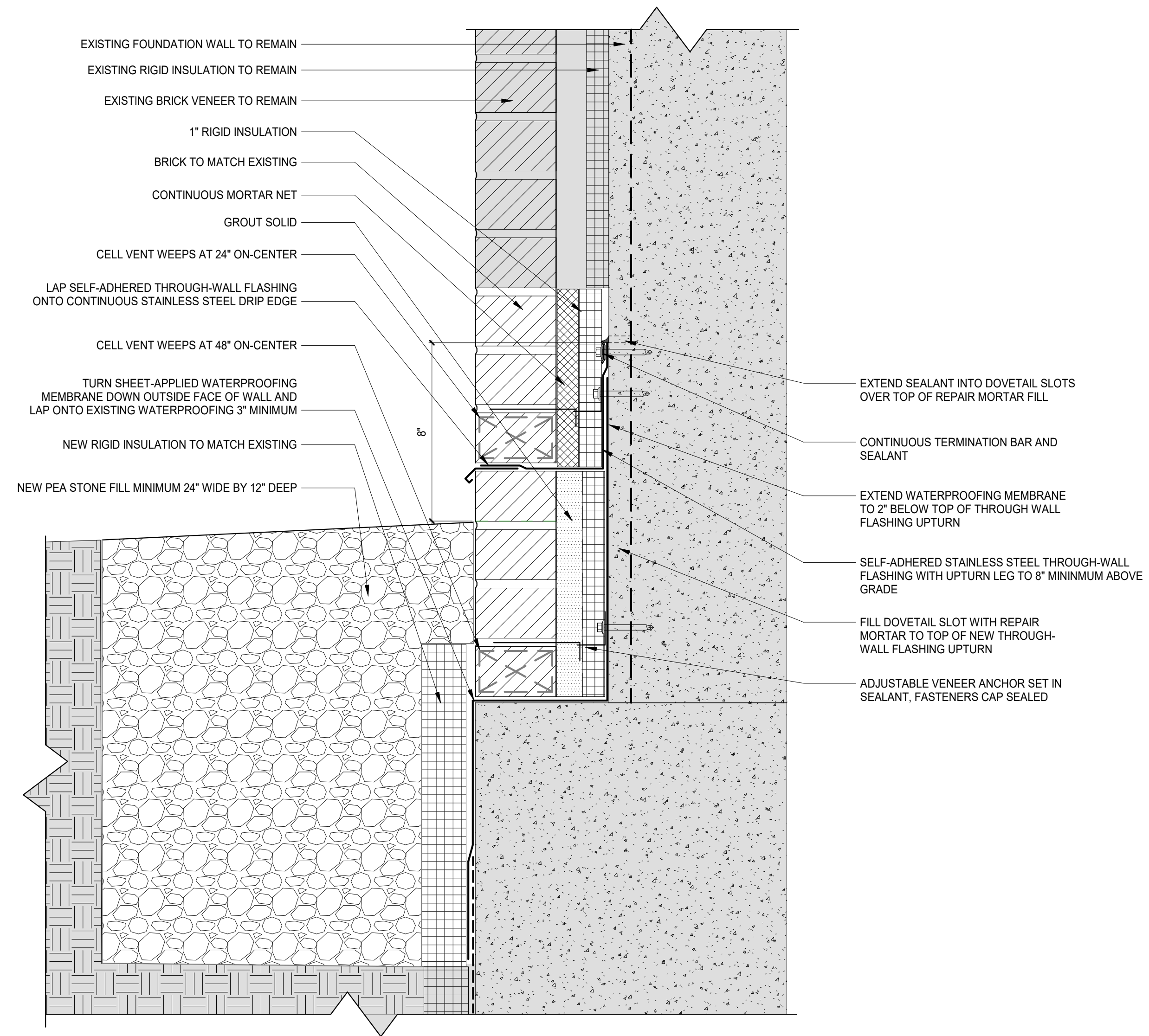
1. EXCAVATE SOIL AT BASE OF WALL TO 1'-0" MINIMUM BELOW THE BRICK SHELF, EXTEND EXCAVATION TO 2'-0" FROM FACE OF BRICK. BACKFILL WHEN REPAIRS ARE COMPLETE WITH PEA STONE.
2. SHELF WATERPROOFING REPAIRS:
 - A. REMOVE EXISTING BRICK VENEER FROM THE SHELF UP TO 4 COURSES ABOVE GRADE. REMOVE EXISTING INSULATION AND WATERPROOFING.
 - B. FILL EXISTING DOVETAIL SLOTS WITH REPAIR MORTAR TO TOP OF NEW THROUGH-WALL FLASHING UPTURN.
 - C. APPLY NEW SHEET-APPLIED WATERPROOFING MEMBRANE FROM OUTER FACE OF CONCRETE WALL, ACROSS SHELF, AND UP BACKUP WALL TO 2" BELOW TOP OF NEW THROUGH-WALL FLASHING UPTURN.
 - D. INSTALL NEW RIGID INSULATION ABOVE SHELF UP TO ONE BRICK COURSE ABOVE GRADE, THICKNESS TO MATCH EXISTING.
 - E. INSTALL NEW BRICK TO MATCH EXISTING ON SHELF UP TO ONE COURSE ABOVE GRADE. PROVIDE ADJUSTABLE MASONRY VENEER ANCHORS AS SPECIFIED, SET IN SEALANT AGAINST WATERPROOFING. PROVIDE CELL VENT WEEPS IN HEAD JOINTS ABOVE THE SHELF AT 48" OC.
 - F. FILL BRICK CAVITY WITH GROUT.
 - G. INSTALL SELF-ADHERED STAINLESS STEEL THROUGH-WALL FLASHING WITH CONTINUOUS DRIP EDGE. TURN FLASHING UP BACKUP WALL TO MINIMUM 8" ABOVE GRADE AND PROVIDE TERMINATION BAR AND SEALANT. EXTEND SEALANT INTO DOVETAIL SLOTS ACROSS TOP OF REPAIR MORTAR FILL.
 - H. INSTALL NEW RIGID INSULATION ABOVE THROUGH-WALL FLASHING TO MATCH EXISTING THICKNESS.
 - I. INSTALL NEW MORTAR NET CONTINUOUS ABOVE THROUGH-WALL FLASHING.
 - J. INSTALL NEW BRICK TO MATCH EXISTING UP TO EXISTING BRICK TO REMAIN. PROVIDE ADJUSTABLE MASONRY VENEER ANCHORS AS SPECIFIED, SET IN SEALANT AGAINST WATERPROOFING. PROVIDE CELL VENT WEEPS IN HEAD JOINTS ABOVE THE THROUGH-WALL FLASHING AT 24" OC.
3. EXPANSION JOINT REPAIR
 - A. REMOVE EXISTING EXPANSION JOINT ASSEMBLY FROM BRICK VENEER WITHIN THE WORK AREA, PROVIDE CLEAN CUT ON BOTTOM EDGE OF JOINT ASSEMBLY TO REMAIN.
 - B. PROVIDE GAP IN NEW BRICK INSTALLED PER SHELF WATERPROOFING REPAIRS, GAP TO MATCH EXISTING EXPANSION JOINT.
 - C. FILL GAP IN BRICK WITH OVERSIZED BACKER ROD AND SEALANT. MARRY SEALANT TO EXISTING EXPANSION JOINT ASSEMBLY ABOVE.
4. CONTROL JOINT REPAIR
 - A. REMOVE EXISTING CONTROL JOINT SEALANT AND BACKER ROD FROM BRICK VENEER WITHIN THE WORK AREA, PROVIDE CLEAN CUT ON BOTTOM EDGE OF JOINT ASSEMBLY TO REMAIN.
 - B. PROVIDE GAP IN NEW BRICK INSTALLED PER SHELF WATERPROOFING REPAIRS, GAP TO MATCH EXISTING CONTROL JOINT.
 - C. FILL GAP IN BRICK WITH OVERSIZED BACKER ROD AND SEALANT. MARRY SEALANT TO EXISTING CONTROL JOINT SEALANT ABOVE.
5. PROTECT EXISTING DOWNSPOUT TO REMAIN THROUGHOUT THE WORK.
6. MOVE EXISTING BIKE RACK AWAY FROM WALL TO CLEAR WORK AREA, REINSTALL IN EXISTING LOCATION WHEN REPAIRS ARE COMPLETE.
7. REMOVE EXISTING IVY FROM BRICK IN WORK AREA TO FULL HEIGHT OF THE IVY ON THE WALL.



1 **NORTHEAST ELEVATION**
 SCALE: 1/8" = 1'-0"



1 Typical Brick Shelf Detail - DEMO
SCALE: 3" = 1'-0"



2 Typical Brick Shelf Detail - REPAIR
SCALE: 3" = 1'-0"

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Sheet Title:
DETAILS

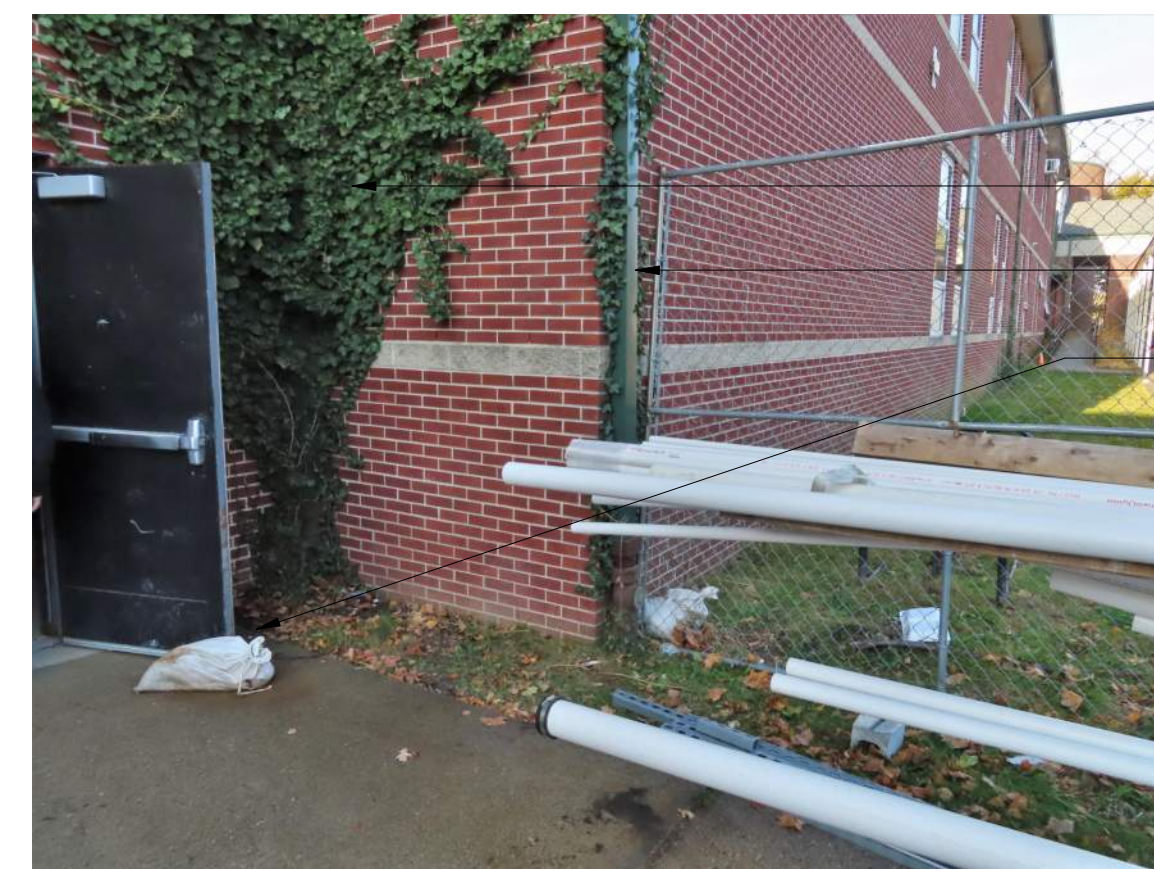
A-301



1 OVERALL PHOTO OF WORK AREA AT NORTHEAST ELEVATION
SCALE: NONE



2 PHOTO OF SOUTHEAST END OF WORK AREA
SCALE: NONE



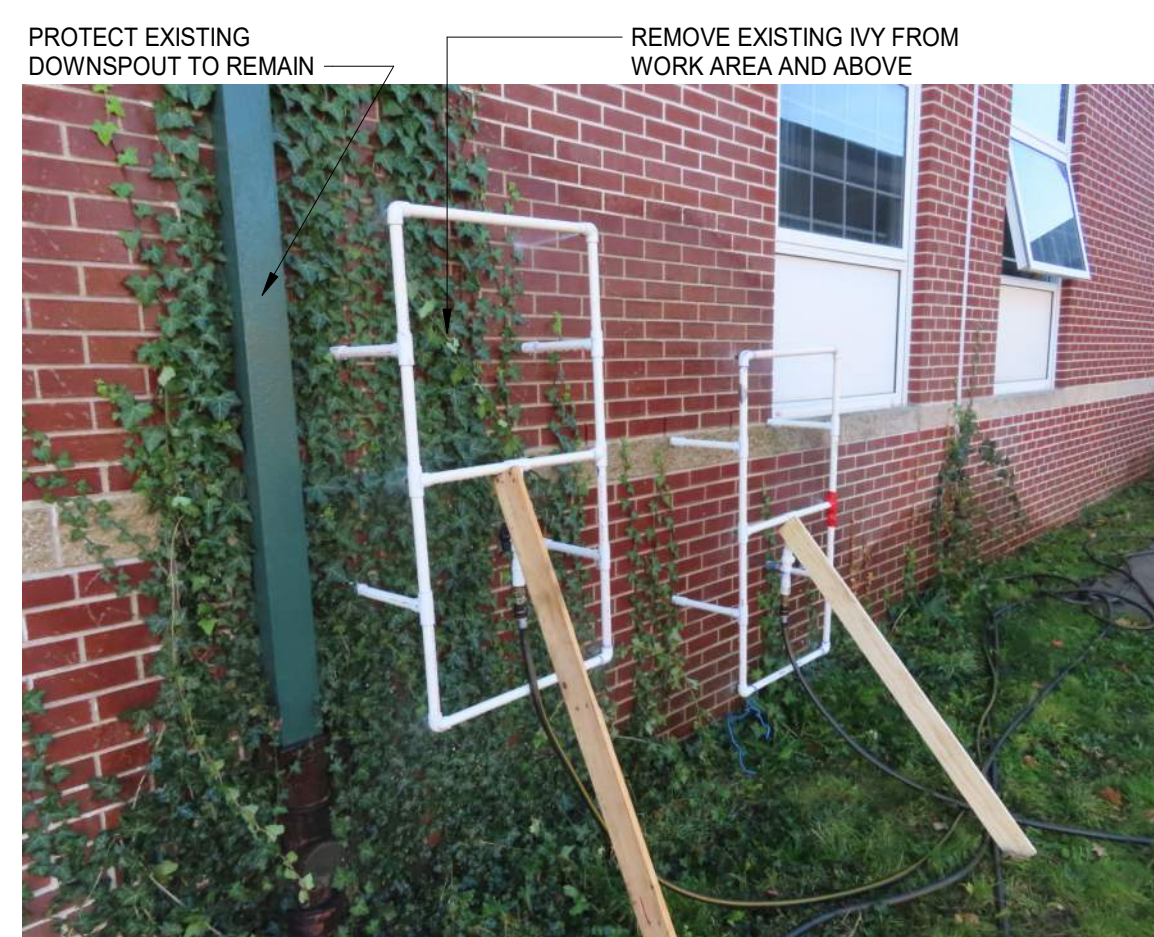
3 PHOTO OF WORK AREA FROM SOUTHEAST END
SCALE: NONE

REMOVE EXISTING IVY FROM WORK AREA AND ABOVE
PROTECT EXISTING DOWNSPOUT TO REMAIN
EDGE OF SITE SLAB AT DOORS IS LIMIT OF EXCAVATION



4 PHOTO OF WORK AREA NEAR SOUTHEAST END
SCALE: NONE

BIKE RACK TO BE TEMPORARILY RELOCATED AND REINSTALLED



5 PHOTO OF WORK AREA NEAR NORTHWEST END
SCALE: NONE

PROTECT EXISTING DOWNSPOUT TO REMAIN
REMOVE EXISTING IVY FROM WORK AREA AND ABOVE



6 PHOTO OF EXCAVATION AND TEST CUT AT CONTROL JOINT
SCALE: NONE

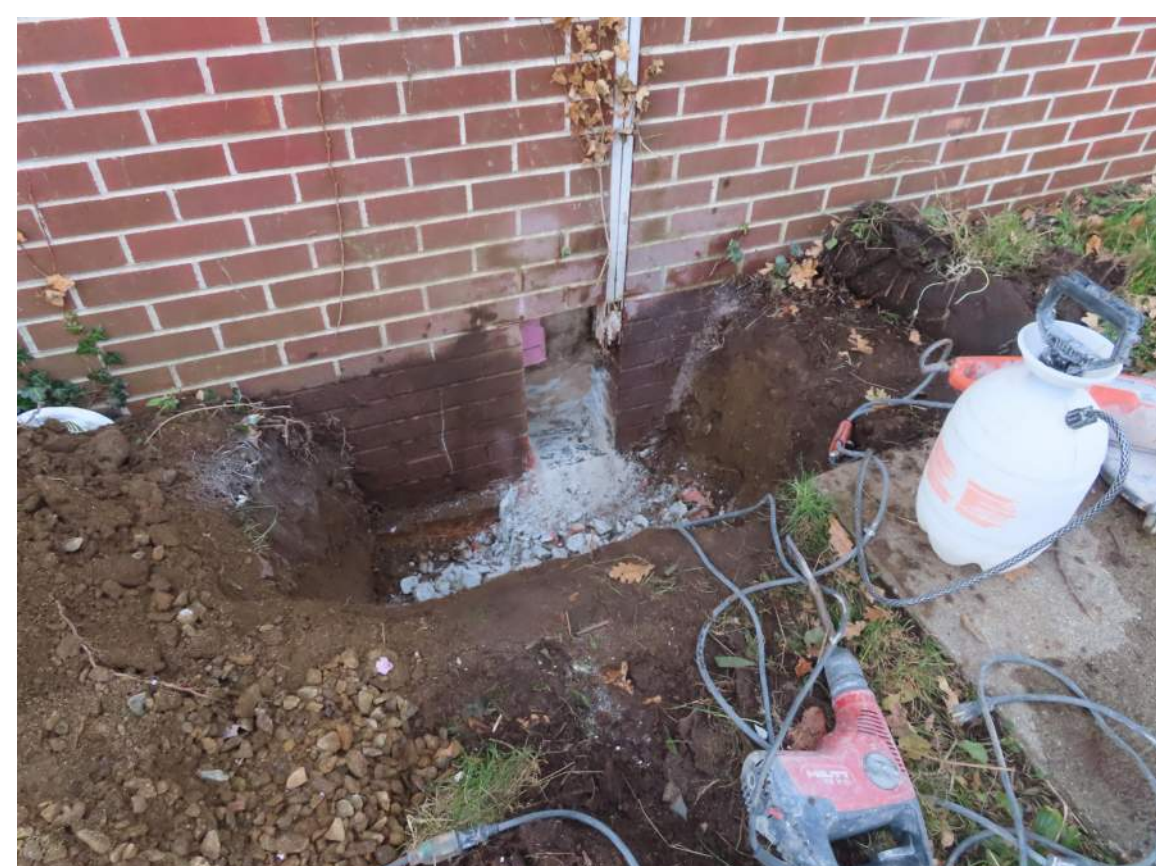
REMOVE EXISTING IVY FROM WORK AREA AND ABOVE



7 PHOTO OF TEST CUT AT CONTROL JOINT
SCALE: NONE

EXISTING CAVITY INSULATION IS INCONSISTENT

EXISTING WATERPROOFING ON FACE OF FOUNDATION AND SHELF



8 PHOTO OF EXCAVATION AND TEST CUT AT EXPANSION JOINT
SCALE: NONE



9 PHOTO OF TEST CUT AT EXPANSION JOINT
SCALE: NONE

EXISTING DETERIORATED EXPANSION JOINT ASSEMBLY



10 PHOTO OF DOVETAIL SLOT IN BACKUP WALL AT TEST CUT
SCALE: NONE

CLEAN DEBRIS AND FOAM FILLER FROM DOVETAIL SLOT PRIOR TO REPAIR

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REFERENCE PHOTOS

A-401
BID DOCUMENTS 6/1/2022