

SPECIFICATION AND PROPOSAL

FOR

**REMOVAL AND REPLACEMENT OF THE UNDERGROUND FUEL TANK AT
STEPNEY ELEMENTARY SCHOOL**

RFP: MBOE

MONROE PUBLIC SCHOOLS
MONROE PUBLIC SCHOOLS
MONROE, CONNECTICUT

SPECIFICATION RELEASE:

PRE-PROPOSAL MEETING: Tuesday, April 19, 2016, 10 AM at Stepney Elementary School,
180 Old Newtown Turnpike, Monroe, CT 06468.

PROPOSAL SUBMITTAL: Friday, May 13, 2016, 10 AM at Monroe Schools District Offices,
375 Monroe Turnpike, Monroe, CT 06468.

MONROE PUBLIC SCHOOLS

Note: The subsections shown below are for convenience purposes only and may not reflect actual section designations or names in the specification documents.

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MONROE BOARD OF EDUCATION
MONROE PUBLIC SCHOOLS

REQUEST FOR PROPOSALS FOR
UNDERGROUND FUEL STORAGE TANK REMOVAL AND REPLACEMENT AT
STEPNEY ELEMENTARY SCHOOL

BID # MBOE

1. INTENT AND GENERAL INFORMATION

1.1 The Monroe Board of Education (MBOE) for all of Monroe is accepting proposals for the removal and Replacement of the Underground Fuel Storage Tank at Stepney Elementary School as further defined in the Request for Proposal. The contractor shall be provide all labor tools material and equipment necessary for the removal and replacement of the existing 8,000 gallon fuel tank. The contractor shall be in compliance with all Federal, state and Local laws.

1.2 The contract will be awarded by the MBOE to the lowest responsive bidder as determined by the MBOE.

2 INSTRUCTIONS FOR PROPOSALS:

2.1 Sealed RFPs will be received in the MBOE Finance Department, 375 Monroe Turnpike, Monroe, Connecticut, by May 13, 2016 at 10 a.m.

2.2 Complete proposals shall include the attached RFP Bid forms along with their detailed proposal as further defined in this Request for Proposal. Proposals including bonds shall be enclosed in a sealed envelope and clearly marked with "RFP for UST Removal and Replacement at Stepney Elementary School", the name of the contractor submitting proposal, date and time for proposal acceptance.

2.3 Addenda and Interpretations: Any request from a prospective bidder for interpretation of meaning of the Request for Proposal shall be made in writing via e- mail to Gabriella DiBlasi gdibiasi@monroeps.org and Jack Zamary jzamary@monroeps.org and must be received by April 25, 2016 at 10:00am. Answers to questions will be provided by April 29, 2016.

2.4 The pre-proposal conference will be mandatory, as this will be the only time for clarifications. The pre-proposal conference will be held April 19, 2016 at 10 am at Stepney Elementary school, 180 Old Newtown Road, Monroe CT. The MBOE reserves the right to reject any proposal that does not meet these requirements.

2.5 Not later than three (3) days prior to date fixed for opening of this RFP, addenda will be mailed to all persons who attended the mandatory conference. Proposals shall be deemed incomplete if contractor does not acknowledge the receipt of all addenda.

2.6 Bid Bond: The Proposal must be accompanied by a bid bond which shall be not less than ten (10) percent of the amount of the base bid. The bid bond shall be prepared in a form acceptable to the MBOE, duly executed by the bidder as principal and having a surety thereon which shall be acceptable to the MBOE. A certified check made in the name of the MBOE is also an acceptable bid surety.

2.7 Performance and Labor and Material Payment bonds will be required of the successful proposal for 100% of base bid for bonding period equal to the duration of the contract as further defined in Section 3.

PERFORMANCE AND LABOR AND MATERIAL PAYMENT Bonds of this RFP.

2.8 Site Conditions: At the date fixed for opening of RFP, each bidder will have made an examination of the site; has satisfied himself as to actual conditions, requirements and quantities of work; and has read and become thoroughly familiar with RFP.

2.9 The bidder is required to submit a Certificate of Insurance in amounts and types specified in or provide a letter from the bidder's insurance agent or broker that such insurance is obtainable at the time of execution of the contract and that a Certificate of Insurance shall be provided to that effect no later than the date of contract signing.

2.10 Contract award will be by MBOE contract.

2.11 The contractor, by executing the proposal, agrees and represents that no person or persons other than those named herein interested in this RFP or in the contract proposed to be taken, that the proposal is made without any connection with any other person.

2.12 No person or persons other than those named herein interested in this RFP or in the contract proposed to be taken, that it is made without any connection with any other person or persons making any proposal for the same work and is in all respects fair and without collusion or fraud, that no person acting for or employed by the MBOE is directly or indirectly interested therein or in the supplies or works to which it relates, or will receive any part of the profit or any commission there from in any manner which is unethical or contrary to the best interest of the MBOE.

2.13 The contractor agrees and warrants that in the performance of the contract it will not discriminate or permit discrimination against any person or group of persons on the grounds of sex, race, color, religion, or national origin in any manner prohibited by the law of the United States, the State of Connecticut, or the MBOE.

2.14 The Contractor understands that payments under this contract are subject to the MBOE authorizing funds on an annual basis.

2.14.1 The Contractor will submit to MBOE an invoice at the end of each month in duplicate, for work completed during that months' time period.

2.14.2 Upon presentation of an accepted invoice, the MBOE will remit payment for services rendered for the period ending the last day of the month. Assuming the request for payment is made in accordance with appropriate provisions of the Contract Documents payments will be rendered within 30-45 business days after receipt of invoice. The invoice shall reflect any adjustments due to extra work approved by MBOE and beyond the requirement of the Contract Documents and credits due to the assessment of liquidated damages or other credits provided for therein.

3. PERFORMANCE AND LABOR AND MATERIALS PAYMENT BONDS

3.1 The contractor shall provide performance and labor and materials bonds annually issued by a surety company satisfactory to the MBOE and licensed to do business in the State of Connecticut, which bonds or renewals, extensions or replacements there of shall remain in full force and effect for the term of the contract and any mutually agreed extensions thereto. The bond provided shall be subject to review by the MBOE's Corporation Counsel and the Contractor may be required to substitute an alternative form of bond if necessary to provide MBOE with adequate security for the performance of the Contractor's obligations."

3.2 The performance bond will obligate the surety such that the contractor shall well and truly keep, do and perform each and every, all and singular, the matters and things in said Contract as specified and at the times and in the manner prescribed, or the surety shall pay over, make good and reimburse the MBOE all loss and damage which the MBOE may sustain by reason of failure or default on the part of the contractor under the provisions of the Contract. The labor and materials payment bond will obligate the surety such that the contractor shall promptly pay for all materials furnished and labor supplied or performed in the prosecution of the work included in the contract.

3.3 Both the performance bond(s) and labor and material payment bonds(s) shall be in amounts equal to 100% of the base bid. In addition, each bond shall be endorsed to state that coverage shall not be suspended, voided, canceled or reduced and there shall not be any lapse in coverage.

3.4 The contractor shall provide thirty days written notice, sent certified mail, return receipt requested, of any decision not to renew or extend any performance of labor and material bond beyond the bonds' expiration date. However, there shall not be any lapse in coverage as a result of such decision not to renew or extend any performance or labor and material bond. Evidence of replacement coverage or a renewed, extended, or new bond shall be provided by the contractor to the MBOE not less than eighty (20) calendar days prior to any bond expiration date. Failure to provide such evidence or such renewed, extended or new bond shall be deemed a failure to comply with the terms of the contract.

3.5 The Contractor shall increase the principal amount of the performance and labor and materials payments bond(s) in direct proportion to any increase in the value of the Contract resulting from such change orders.

4. OTHER CONDITIONS- INDEMNIFICATION

4.1 The bidder is aware of and agrees that, if awarded the contract, he is bound by the following indemnification language:

4.2 To the fullest extent permitted by law, the contractor shall release, defend, indemnify, and hold harmless the MBOE, their respective boards, commissions, officers, officials, employees, agents, representatives, and servants from any and all suits, claims, losses, damages, costs (including without limitation reasonable attorneys' fees), compensation, penalties, fines, liabilities or judgments or any name or nature for:

4.2.1 Bodily injury, sickness, disease, or death; and/or

4.2.2 Damage to or destruction of property, real or personal; and/or

4.2.3 Financial losses (including, without limitation, those caused by loss of use) sustained by any person or concern, including officers, employees, agents, subcontractors or servants of, the Board of Education, or the contractor, or by the public, which is cause or alleged to have been caused in whole or in part by the act (s) or omission(s) of the contractor, its officers, employees, agents, or Subcontractors, in the performance of the contract or from the inaccuracy of any representation or warranty of the contractor contained in the Contract Documents. This indemnity shall not be affected by other portions of the contract relating to insurance requirements.

4.2.4 To the fullest extent permitted by law, the contractor agrees to release, defend, indemnify, and hold harmless the MBOE their respective boards and commissions, officials, officers, employees, agents, representatives, and servants from any loss, claim, cost penalty, fine or damage that may arise out of the employees or Subcontractors to comply with any laws or regulations of the United States of America, the State of Connecticut, the MBOE, or their respective agencies. This undertaking shall not be affected by' other portions of the contract relating to insurance requirements.

5. FAILURE OF OPERATION

5.1 If the Contractor fails to comply with any of the terms and conditions set forth in this agreement, the MBOE will notify the Contractor in writing. The Contractor will have five days from the receipt of the notice to comply with the terms and conditions set forth in this agreement. The MBOE may elect to extend this time period to a date certain providing the Contractor is working diligently to comply with the terms and conditions set forth in this agreement.

5.2 Failure to comply with any provision of this agreement and failure to cure the non-compliance constitutes a breach of contract. If there is a breach, the MBOE may, at its sole discretion, terminate the contract. Termination of the contract renders the contract null and void. There shall be no penalty or payment required by the MBOE.

5.3 At any time, the MBOE may demand assurance that the Contractor is able to continue to perform the contract. If the Contractor fails to give the MBOE reasonable assurances that the

Contractor can continue to perform, the MBOE shall consider this a breach of the contract. The MBOE may, at its sole discretion, terminate the contract. Termination of the contract renders the contract null and void. There shall be no penalty or payment required by the MBOE.

5.4 The MBOE may terminate this contract at any time when the Contractor consents to or voluntarily or involuntarily petitions for appointment of a receiver, trustee, liquidator, assignee, custodian, sequester, or similar official, or files or has filed a petition in bankruptcy, reorganization, or order of relief, or in any other manner demonstrates its current inability to pay its debts or satisfy its obligations as they become due.

5.5 Notwithstanding the foregoing, the Contractor and MBOE agree that, if the Contractor is unable to provide services due to labor disputes not arising out of actions taken by the employer that would be deemed responsible and consistent with the standard of the industry or acts of God, fire, riot, war, civil commotion, or any other similar condition, the Monroe Public Schools shall excuse the Contractor to the extent necessary from performance hereunder. The MBOE and the Contractor shall work together, to their best efforts, to resume the work as soon as reasonably possible.

5.6 If the contract is terminated for breach, the MBOE will be entitled to the costs of re-procuring a construction contract for the work. Additionally, if the cost of the new contract exceeds the costs contained in the terminated contract, the MBOE will be entitled to the amount of the increased costs from the Contractor.

6. AUDIT RIGHTS

6.1 At any time prior to final payment under this contract and within three (3) years thereafter, the MBOE shall have the right to audit all invoices presented by the Contractor, to the extent the MBOE may deem necessary, for the purpose of verifying all charges claimed under this contract. The Contractor agrees to maintain and make available all records and books of account detailing any charges against this contract or any invoice hereunder.

6.2 In addition, the MBOE has the right to ask the Contractor for documentation concerning the Contractor's business operations, including, but not limited to, copies of bank statements, copies of balance sheets, copies of income statements, copies of current contracts, and copies of financial statements.

7. INTERPRETATION AND CONSTRUCTION

7.1 The construction of this contract shall be governed by the laws of the State of Connecticut, excluding its conflict of law rules.

7.2 The contract documents constitute the entire agreement between the parties and shall supersede all previous communications, representations, and agreements, either oral or written, between the parties with respect to the subject matter hereof and no agreement or understanding varying or extending this contract shall be binding upon either party unless made in a writing referencing this contract and signed by a duly authorized representative of each party.

7.3 If in any instance any provision of this contract shall be determined to be invalid or unenforceable under any law or regulation, such provision shall not apply in such instance, but the remaining provisions hereof shall be given effect in accordance with their terms.

7.4 The MBOE's failure to insist on performance of any of the terms or conditions herein, or to exercise any right or privilege, or the MBOE's waiver of any breach here under, shall not thereafter waive any such terms, conditions, or privileges or ,any other terms, conditions, or privileges, whether of the same or similar type.

8. CONTINUATION OF WORK DURING THE PENDENCY OF A DISPUTE

8.1 No failure of the MBOE and Contractor to settle any dispute or to reach any agreement provided for by the terms of this contract shall excuse the Contractor from diligently proceeding with the performance of this contract.

9. ATTORNEYS' FEES

9.1 In the event the MBOE should bring an action against the Contractor for enforcement of the terms and conditions of this contract, the Contractor agrees that the MBOE shall be entitled to the award of its reasonable attorneys' fees and court costs associated with such proceedings.

10. ASSIGNMENT OF CONTRACT

10.1 The Contractor shall not assign this contract, or subcontract any interest therein, without the prior approval in writing of the MBOE. '

11. CERTIFICATION OF COMPLIANCE WITH DRUG AND ALCOHOL TESTING

11.1 The Contractor must submit a Certification of Compliance with Drug and Alcohol Testing annually and verification from the Contractor's testing program that the contractor has participated in testing in accordance with applicable laws and regulations to the MBOE. Contractor shall provide a letter from the Lab or company performing random drug screening listing.

12. AUTHORIZED AGENTS FOR NOTICE

12.1 The MBOE hereby designates as its authorized agent for purposes of implementation of the contract and performance of services:

Monroe Board of Education
Gabiella DiBlasi, Director of Finance and Jack Zmary, Director of IT and Operations
375 Monroe Turnpike, Monroe, CT 06468

13 SCOPE OF SERVICES

13.1 The Contractor shall remove and replace the existing 8,000 underground fuel oil storage tank and replace it with a new 8,000 gallon double walled fiberglass underground fuel oil storage tank in accordance with the Technical Specifications and Figures 1, 2 and 3.

14. INSURANCE

14.1 The Contractor shall maintain in force at all times during which services are to be performed under this Agreement the following insurance coverage placed with company(ies) licensed by the State of Connecticut which have at least an "A-" VIII policyholders rating according to Best Publication's latest edition Key Rating Guide.

(Minimum Limits)

General Liability* Each Occurrence \$1,000,000

General Aggregate \$2,000,000

Products/Completed Operations \$2,000,000

Aggregate

Auto Liability* Combined Single Limit

Including Uninsured and Each Accident \$1,000,000

Uninsured Motorist Coverage

Umbrella* Each Occurrence \$1,000,000

(Excess Liability) Aggregated \$1,000,000

14.2 MBOE shall be named as "Additional Insured's" Coverage is to be provided on a primary, noncontributory basis. Policies with coverage subject to deductibles or self- insured retentions in excess of \$25,000 must be submitted for review and approval.

14.3 If any policy is written on a "Claim Made" basis, the policy must be continually renewed for a minimum of two (2) years from the completion date of the Agreement. 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 completion date.

14.4 Original, completed Certificates of Insurance must be provided prior to the start of this Agreement. Contractor agrees to provide replacement/renewal certificates at least 60 days prior to the expiration of the policy. Should any of the above described policies be cancelled before the expiration date, written notice must be received thirty (30) days prior to cancellation.

14.5 Worker's Compensation: The Contractor shall maintain Worker's Compensation Insurance coverage as required by the Connecticut General Statutes for the Term of this Agreement.

Worker's Compensation and WC Statutory Limits
Employer's Liability EL Each Accident \$100,000
EL Disease Each Employee \$100,000
EL Disease Policy Limit \$500,000

15. LIQUIDATED DAMAGES

15.1 Liquidated damages shall be agreed between the MBOE and the Contractor to be in the amount of \$150.00 per day for each calendar day the Contractor exceeds the scheduled completion date. This shall be as liquidated damages and not a penalty.

16 PROPOSAL

16.1 Respondents to this RFP are hereby notified that all proposals submitted and information contained therein and attached thereto will not become public information until selection of successful respondent.

17 SUBMISSION AND DEADLINE

17.1 All proposals must be received by Friday, May 13, 2016 at 10:00 AM. One original and five (5) copies shall be submitted to:

Gabriella DiBlasi, Finance Director and Jack Zmary, Director of IT and Operations
Monroe Board of Education
375 Monroe Turnpike
Monroe CT 06468

17.2 Interested contractors must attend the pre-proposal conference to be held Tuesday, April 19, 2016 at 10:00 AM at Stepney Elementary school, 180 Old Newtown Road, Monroe CT. All questions (general, procedural, or technical) regarding this RFP shall be directed to Gabriella DiBlasi gdiblas@monroeps.org and Jack Zmary jzmary@monroeps.org and must be received by April 25, 2016 at 10:00am. Answers to questions will be provided by April 29, 2016. Questions will be discussed and clarified during pre-proposal conference. Proposals will not be accepted from individuals who do not attend the pre-proposal conference.

17.3 All firms who are furnished a copy of this RFP but who decide not to offer a Proposal to the MBOE are asked to submit a negative reply. Specific comments and observations are encouraged.

18. PACKAGING

18.1 The original proposal along with five (5) copies shall be placed in one sealed envelope, bearing the name and address of the respondent and clearly marked with the words "RFP: UST Removal/Replacement Stepney Elementary School , Bid # 2016-2".

18.2 Organization and Content

18.2.1 The MBOE will not be liable for any costs incurred in the preparation of the response to this request. Proposals must be bound, paginated, indexed and numbered consecutively. The firm's authorized official must sign all proposals.

18.2.2 The proposal must also provide name, title, address, and telephone numbers including FAX numbers for 1) the individual with authority to negotiate and contractually bind the firm, and 2) for those who may be contacted for the purpose of clarifying the information provided therein. No original material should be submitted as all proposal submissions and materials become property of the MBOE and will not be returned. Respondents shall submit as their proposal the following:

19. SECTION 1: SUBMITTAL LETTER

19.1 Respondents shall submit a cover letter, addressed to Gabriella DiBlasi, Director of Finance, and Jack Zmary, Director of IT and Operations, signed by an authorized principal or agent of the respondent, which provides an overview of the respondent's offer, as well as the name, title, fax number, e-mail address and phone number of the person to whom the MBOE may direct questions concerning the proposal. The letter should also include a statement by the respondent accepting all terms and conditions contained in this request, signed by an officer or other individual with authority to bind the firm.

19.2 SECTION 2: DETAILED PROPOSAL INCLUDING

19.1 References and Experience: Please provide a detailed written summary of the respondent's experience and capability in providing similar operating services elsewhere, especially experience in providing services to municipalities. Included with references, shall be a list of all similar contracts held in the last 5 years.

19.3 Safety Program: Provide copy and explanation of Corporate Safety Policies.

20. SECTION 3: FEE PROPOSAL TERMS

20.1 All respondents are required to submit a fee proposal (Bid Submission Form) for all services outlined in the scope of services. The fee shall include all materials, supplies, personnel and whatsoever necessary as described herein. The MBOE is exempt from the payment of excise taxes, transportation and sales taxes imposed by the Federal Government and/or the State of Connecticut. Such taxes must not be included in the fixed fee. The MBOE reserves the right to negotiate fees and payment schedules with the selected respondent.

21. SECTION 4: REQUIRED FORMS

21.1 Taxpayer's Identification Number: Every respondent, whether an individual, proprietor, partnership or a non-profit corporation or organization must fill out and submit with their proposal the Internal Revenue Service Form W-9, Request for Taxpayer Identification Number and Certification.

21.2 Certificate of Insurance: A certificate of insurance shall be submitted naming the MBOE and meeting the requirements of section 14.

21.3 Bid Bonds

21.4 The Respondent must sign all Proposals. Unsigned proposals cannot and will not be considered.

22. PROPOSAL EVALUATION:

22.1 The following criteria will be used, without limitation, in determining the successful contractor:

22.2 The Respondent's technical understanding of the project, its purpose, scope and field as evidenced by the quality of the proposal submitted, operational plan, staffing plan and vehicle list. This shall include the background and experience of the Respondent in providing similar services elsewhere, including the level of experience in working with municipalities and/or other governmental bodies of similar size, and the quality of services performed, either for the MBOE or for other municipal or private sector clients. Proposer must demonstrate that the tank installer is certified by the tank and piping manufacturers for installation and holds all appropriate licenses.

Proposals in response to this request will be reviewed against the criteria listed above, and award of contract shall be made in accordance with standard purchasing procedures.

23 SELECTION PROCEDURES

23.1 The Purchasing Agent reserves the right to reject any or all proposals or parts thereof for any reasons, to negotiate changes to proposal terms, and to waive minor inconsistencies with the RFP.

23.2 The MBOE intends to enter into a contract with the most responsible respondent whose proposal is determined to be in the best interest of the MBOE.

24. PRINCIPALS/COLLUSION

24.1 By submission of a proposal, the respondent does declare that the only person or persons interested in this proposal as principal or principals is/or, are named there in and that no other person other than therein mentioned has any interest in this proposal or contract to be entered into; that this proposal is made without connection with any person, company or parties making a proposal, and that it is in all respects fair and in good faith without collusion or fraud.

MONROE BOARD OF EDUCATION

PROPOSAL FORM

Pursuant to and in compliance with your Request for Proposals and your Instructions to contractors: relating thereto, the undersigned,

(Name of Contractor)

having carefully examined the complete specifications and together with all addenda issued and received prior to scheduled closing time for receipt of proposals hereby offers and agrees to provide all equipment and services in accordance with the attached specifications dated _____, 2016.

The authorized person(s) signing below further certifies that this proposal has been prepared without collusion with any other proposer, Board of Education, or any employee of the Board of Education, and is unaware of any direct, personal pecuniary interest of any employee of the Board of Education in the outcome of this proposal.

Authorized Signature:

Typed/Printed Name:

Address:

Telephone Number:

Email

Address:

All proposal envelopes must be sealed and clearly marked:

RFP: UST Removal/Replacement Stepney Elementary School

Bid 2016-2, 2016 10:00 AM

FUEL TANK REMOVAL / REPLACEMENT

1. COST OF WORK:

The undersigned, acting for and on behalf of contractor and having familiarized himself with conditions affecting the cost of the work and its performance and having carefully examined and fully understood the entire bid package, hereby affirms and agrees to enter into a contract with the MBOE.

To provide all supervision, labor, material, equipment and all other expense items to completely perform the work covered by all specifications for the work.

The undersigned submits herewith his bid for the indicated item as follows:

- 1) Complete the Removal and Replacement of the Existing Underground 8,000 gallon Fuel Oil Storage Tank:

Lump Sum Total \$ _____

In Words _____

- 2) Additional cost for the complete removal and replacement of the existing fuel tank deadman.

Lump Sum Total \$ _____

In Words _____

- 3) Contingency cost to jack in four (2- inch) hard pipes for conduit in the event existing below building piping cannot be used as conduit.

\$ _____ lump sum

In Words _____

- 4) Additional cost for the complete removal and disposal of contaminated soil encountered during excavation per ton as directed by the Engineer.

\$ _____ per ton

In Words _____

- 5) Additional cost for the complete import and placement of soil backfill per ton to replace contaminated soil removed off-site as directed by the Engineer.

\$ _____ per ton

In Words _____

- 6) Additional cost for the complete removal and disposal of contaminated ground water encountered during excavation per gallon as directed by the Engineer.

\$ _____ per gallon

In Words _____

The MBOE reserves the right to reject any or all bids and to waive any informalities in bidding and to accept the bid deemed most advantageous to it.

2. COSTS:

The undersigned contractor hereby affirms and states the prices quoted herein constitute the total cost to the MBOE for all work involved in the respective items and that this cost also includes all insurance, royalties, transportation charges, use of all tools and equipment, superintendence, overhead expense, all profits and all other work, services and conditions necessarily involved in the work to be done and materials to be furnished in accordance with the requirements of the contract documents considered severally and collectively. This bid shall be held valid for a period of ninety (90) days after the bid due date.

3. INSTRUCTIONS:

The undersigned contractor shall comply with all provisions and requirements of this Bid Package.

4. TIME OF COMPLETION:

The undersigned affirms and declares that if awarded the contract for this work he will completely perform said contract in strict accordance with its terms and conditions by August 5, 2016, unless additional time shall be granted by the MBOE in accordance with the provisions of the specifications. Should the contractor fail to complete the work by said date or within such extended time as may have been allowed, the contractor shall be liable to the MBOE in the amount set forth in the specifications.

PROPOSAL FORM

REFERENCES

(Name of Contractor)

List all references stating name, address, and contact person and phone number below:

References

Bidder shall supply the following information listing at least five customers for which the bidder has supplied a similar type of commodities, service, or construction.

1. Company Name: _____

Address: _____

Phone #: _____

Contact: _____

2. Company Name: _____

Address: _____

Phone #: _____

Contact: _____

3. Company Name: _____

Address: _____

Phone #: _____

Contact: _____

4. Company Name: _____

Address: _____

Phone #: _____

Contact: _____

5. Company Name: _____

Address: _____

Phone #: _____

Contact: _____

MONROE BOARD OF EDUCATION

PROPOSAL FORM

EQUAL OPPORTUNITY EMPLOYER – STATEMENT OF EMPLOYMENT POLICY

(Name of Contractor)

NOTICE TO CONTRACTOR

The Monroe Board of Education, Connecticut, is an Equal Opportunity Employer. The MBOE has made it a matter of policy that it will not transact business with firms, which are not in compliance with all Federal and State Statutes and Executive Orders pertaining to nondiscrimination.

In order for the contractor to be placed on the MBOE's acceptable Contractors List and thereby be eligible for consideration as a source for goods and services, the contractor must complete the below Affirmative Action statement.

STATEMENT OF EMPLOYMENT POLICY

It is the employment policy of _____ (this "Firm") that there shall be no discrimination against anyone on the grounds of race, creed, national origin, sex or age, in the hiring, upgrading, demotion, recruitment, termination, and selection for training.

In addition, this Firm is in full compliance with the letter and intent of the various Equal Employment Opportunities and Civil Rights Status noted above.

Authorized Signature:

Typed/Printed Name:

MONROE BOARD OF EDUCATION

PROPOSAL FORM

NON-COLLUSIVE PROPOSAL STATEMENT

(Name of Contractor)

All contractors are required to sign a Non-Collusive Statement with all public Proposal as follows:

1. The Proposal has been arrived at by the contractors independently and has been submitted without collusion with, and without any agreement, understanding, or planned common course of action with any other contractor or materials, supplies, equipment, or services described in the Advertisement for Proposals designed to limit independent contractors or competition: and,
2. The contents of the Proposal have not been communicated by the contractor or its employees or agents to any person not an employee or agent of the contractor or its surety on any bond furnished with the Proposal, and will not be communicated to any such person prior to the official opening of the Proposal.

Authorized Signature;

Typed/Printed Name:

INDEMNIFICATION AND SAVE HARMLESS AGREEMENT

The Contractor agrees to indemnify and save harmless, Monroe Board of Education, CT., its employees, agents and servants, from any liability claim, expense, cause of action, loss or damage whatsoever, for any injury, including death to any person or property; whether covered by insurance or not, unless such injury or damage is caused by the sole negligence of the Monroe Board of Education, its agents or servants. The Monroe Board of Education shall be held harmless specifically for attorney's fees and the Contractor is expressly obligated to defend any and all claims that shall arise through this contract.

Authorized Signature;

Typed/Printed Name:

MONROE BOARD OF EDUCATION

PROPOSAL BOND

KNOW ALL MEN BY THESE PRESENTS, that we the undersigned _____ as Principal, and _____ as Surety are held and firmly bound unto the Monroe Board of Education, Connecticut, hereinafter Called "MBOE", in the penal sum of _____ Dollars, (\$_____) lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs executors, administrators, successors, and assigns, jointly and severally, firmly be these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, which whereas the Principal has submitted the accompanying proposal, dated _____, 2016 for **UST Removal/Replacement Stepney Elementary School.**

NOW THEREFORE, if the Principal shall not withdraw said Proposal within the period specified therein after the opening of the same, or within any extended time period agreed to by the Principal, Surety and MBOE, or, if no period be specified, within sixty(60) day after the said opening, and shall within the period specified therefore, or if no period be specified, within ten (10) days after the prescribed forms are presented to him for signature, enter into a written contract with the MBOE in accordance with the Proposal as accepted, and give bond with good and sufficient performance and proper fulfillment of such contract; then the above obligation shall be null and void and of no effect, otherwise to remain in full force or virtue.

Failure to comply with the aforementioned condition shall result in the forfeiture of the Proposal Bond as liquidated damages.

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

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

In presence of:

_____(SEAL)

(Individual Principal Signature)

(Principal Name – Print) (Business Address)

Attest:

_____(SEAL)

(Signature)

(Business Address)

By: _____

(Affix Corporate Seal)

Attest:

(Signature) (Corporate Surety)

(Business Address)

By: _____

(Affix Corporate Seal)

Countersigned by: _____

Attorney-In-Fact, State of _____

Power of Attorney for person signing for Company must be attached to Bond Surety.

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SECTION 01000

GENERAL REQUIREMENTS

01001 DESCRIPTION

These General Requirements are hereby made a part of each and every Division and Section of the Specifications. The Contractor shall ensure that each and every subcontractor and material supplier is so informed. Additional provisions of the Specifications are supplementary, and in any case where general conditions are modified, remaining portions of the general article shall remain in effect.

In addition, where there are differences in these specifications and the general conditions, the most stringent requirement, as determined by the Engineer, shall apply and remain in effect.

The property owner shall be responsible for providing access to the Site, furnish payment for work performed, and sign waste disposal documentation. The Engineer shall be responsible for approving Contractor submittals, overseeing and documenting the work in accordance to the specifications, and the collection of soil confirmatory samples. The Contractor shall be responsible to furnish all permits, labor, materials, equipment, tools, and methods necessary to perform the work in a professional and timely manner as indicated in the Contract Documents and provide waste characterization sampling and disposal including all incidentals to complete the scope of work consistent with the specified intent.

01010 SUMMARY OF WORK

- A. The project is titled, "Underground Tank System Removal/Replacement at the Stepney Elementary School". All work is located on property owned by the Monroe School District, Monroe, Connecticut.
- B. The work to be performed under this Contract consists of providing all equipment, power, labor, materials and incidentals to:
 - A. Remove and dispose of one (1) 8,000-gallon No. 2 fuel oil underground storage tank (UST) system. The removal includes all contents and appurtenances associated with the tank system (manways, fuel piping, vent piping, tank and monitoring devices, etc.) exterior to the adjacent building except as noted herein.

Removal of overlying materials, including concrete top slab and sidewalk and soil is required.

Removal of the tank bottom concrete slabs are not required unless explicitly directed by the Owner to address petroleum contaminated soils or meet specification of replacement.

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- B. Remove petroleum-impacted soil, if encountered, as directed by the Engineer.
 - C. Restore sidewalk and landscaping as specified and complete additional work as specified. The limits of sidewalk removal / replacement shall be as specified during the mandatory pre-bid site walk.
 - D. Replace in kind the small wooden platform where noted on Figure 2.
- C. All work shall be performed and completed in accordance with the requirements of 40 CFR Parts 280 and 281, 29 CFR Part 1910.120, 29 CFR Part 1926, Regulations of Connecticut State Agencies (RCSA) Sections 22a-449(d)-1, 22a-449(d)-101, 22a-449(d)-107, and 22a-449(c)-100 through 119, and all other applicable state and federal regulations.
- 1. Contractor shall provide, prior to start of work, written documentation including copies of all permits verifying that all proposed off-site disposal locations for tank system, fuel and tank bottom sediment/sludge, petroleum impacted soils, piping and associated appurtenances, and other materials, are licensed and permitted in accordance with all applicable codes, laws, regulations, and standards. Approval from the Engineer and Owner of proposed disposal facilities shall be required prior to mobilization to the site.
 - 2. At completion, Contractor to provide the Owner with written documentation for all waste, including, but not limited to, tank, tank contents, wastewater and soil disposed as follows: (a) Certificate of Destruction/Recycling/Treatment for tank and piping, fuel oil, sludge, waste liquid from tank cleaning, and petroleum impacted soils with quantities of product and materials disposed identified; (b) Bills of Lading for tank and piping; and, (c) Nonhazardous Waste Manifest for nonhazardous waste petroleum products (e.g., fuel oil), wastewaters from tank cleaning, and petroleum impacted soils.
- D. The Contractor shall safely maintain the tank and piping excavations open for a period of time at least two (2) working day, unless otherwise directed by the Engineer, to await analytical results from soil samples (each sidewall, bottom, pipe trench, and stockpile). Contractor shall utilize proper equipment (e.g., excavator bucket) to assist in collecting post-excavation bottom and sidewall soil samples. A minimum of five soil samples shall be collected from the tank excavation by the Engineer.
- 1. In addition, one floor soil sample shall be collected per twenty linear feet of piping. The Contractor shall not backfill excavations until directed by the Engineer, pending soil results. Upon receipt of satisfactory post-excavation sample data, the Engineer will authorize the Contractor to start the installation of the replacement tank.
 - 2. The Contractor shall prevent surface waters from entering the tank and piping excavations at all times.
 - 3. The Contractor shall provide and maintain a temporary 5-foot high orange construction safety fencing supported with steel posts surrounding open excavations until the excavations are completely backfilled. The fencing shall be on-site and ready for installation prior to commencement of any excavation activities.

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- E. The Contractor shall furnish all labor, materials, equipment and tools necessary to perform the work as indicated in the Contract Documents and provide all incidentals to complete the scope of work consistent with the specified intent.
- F. The Contractor shall prepare and issue all notifications, and apply for and obtain all permits and approvals required to complete the Work. All fees for licenses, permits, tolls, approvals, taxes, tariffs, surcharges, etc. shall be the responsibility of the Contractor.
- G. Unless an alternative construction sequence is approved in advance by the Engineer, the work should be carried out by the Contractor in the order listed below and in accordance with Sec. 22a-449 (d)-107 of the CT UST Regulations.
 - 1. Prior to ordering materials or starting construction on the project, the Contractor shall submit all appropriate shop drawings, material approval requests that meets the tank manufactures specification for backfill (e.g., pea gravel source and samples), and information regarding proposed disposal facilities, for the Engineer's and Owner's approval.
 - 2. Provide CBYD notification, Locate, mark out and protect all underground utilities. Protect all existing lighting.
 - 3. Pump any remaining fuel from the tank system and piping into new DOT-approved drums or vacuum truck provided by the Contractor for off-site disposal prior to removal of the UST from the excavation, If required transfer fuel from the tank to staged temporary day tank location as designated by the Engineer. Carefully drain all piping when breaking piping into collection buckets. Once the UST is removed from the excavation, - fuel free, and clean tank interiors, and fully drain the piping. The tank and certain piping shall be sent for off-site disposal. Note that the fill and return piping shall be cleaned and left in place below the building to serve as conduit for new double-walled fuel lines. The Contractor shall be responsible for the collection, analysis and cost of any waste characterization necessary for disposal of the tank, tank liquids, and sludge.
 - 4. Remove and dispose of existing underground storage tank including top slab, specified fuel piping, manways and other associated appurtenances. Remove and stockpile petroleum-impacted soil, if encountered, as directed by the Engineer, on poly sheeting as specified in Section 02220. Provide Engineer with access to the tank grave soil sidewalls and bottom for visual inspection of condition. Contractor to use excavator to assist the Engineer in the collection of soil samples. At the direction of the Engineer,

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stockpile any petroleum impacted soil and material on site for all required testing by the Engineer. Remove soil and material stockpiles from site for proper offsite disposal/treatment after receipt of soil test data and approval from Engineer. Dispose of all materials and waste in accordance with all applicable state and federal regulations.

5. Install replacement tank and piping as specified.
 6. Complete site restoration, landscaping and sidewalk replacement as specified and cleanup to restore area to a condition at least equal to that prior to the start of construction, unless specified otherwise herein.
- H. The Contractor shall initially strip and stockpile the topsoil prior to exposing the existing tank for reuse at the completion of the tank installation. The Contractor shall provide imported, pea gravel, free-draining materials, and clean soil as backfill from an off-site source(s) that has been approved by the Engineer and meets the manufactures recommendations for backfill. The Contractor may use as backfill suitable excavated material provided it is free of contaminants, organic materials and debris. However, all reuse of existing site materials for backfill must be approved by the Engineer. Provide and place additional pea gravel and clean soil as needed and in accordance with the specifications. Restore surfaces as specified. Existing material may not be used as backfill until excavation from which the fill was removed has been sampled and analyzed and authorization to backfill the excavation has been issued by the Engineer.
- I. The Contractor should note that the above summary is not complete in every detail of work required.
- J. The Contractor will be held to have examined the work site and to have satisfied himself as to the conditions surrounding the premises as no allowance will be made for failure on his part to do so. The submission of a proposal by the Contractor will be construed as acceptance, by the Contractor, of the specifications as sufficient to enable his supplying the detail of all work contemplated hereunder, all to the approval of the Engineer, and without extra charge. Insofar as possible, the Contractor, in carrying out the Work, must employ such methods and means as will not cause the interruption of or interference with the work of any other Contractor, nor with the normal routine activities at the facility except as otherwise specified herein.
- K. State of Connecticut Department of Transportation Standard Specifications for Roads, Bridges and Incidental Construction Form 816 is referenced for technical requirements for materials and installation. All Form 816 work shall be included in the Contract at no extra cost to the Town. Form 816 basis of payment are excluded from this Contract.

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01011 EXAMINATION OF SITE

- A. The specifications have been prepared to provide guidance to the Contractor on the work required. Prior to bidding, all contractors are advised to examine the site. Failure to visit the site and note all conditions will in no way relieve the Contractor from completing the Work.
- B. Subsequent to the award of the Contract, the successful Contractor will be granted access to the site to make detailed measurements, plan access to the work site and other considerations of the Work. Arrangements for such site visits will be made with the Owner.

01012 PROJECT DOCUMENTS

- A. The Specifications and the Drawings describe and illustrate the materials and labor necessary for the work of this Project.

01013 DRAWINGS FURNISHED

- A. The Contractor will be furnished one set of the Specifications and Drawings on or about the time of execution of the Contract.
- B. The Contractor is provided a copy of site plans showing the tank location and work area in the Drawings.

01015 CONTRACTOR'S USE OF PREMISES

- A. The Contractor shall confine his operations, including storage of supplies, equipment and materials to the Work Area limits shown on the Drawing or as otherwise approved by the Engineer and Owner.
- B. The areas and/or spaces, including their access, shall be maintained free and clear throughout the Contract term.

Parking for Contractor's employees will be limited to an area (or areas) designated by the Owner. Contractor shall be responsible for the security of their own equipment and materials on the site.

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01016 OCCUPANCY

Owner will occupy premises during entire construction period to conduct of normal operations. The Contractor shall cooperate with Owner in scheduling operations to minimize conflict and to facilitate Owner usage

01035 OVERTIME

- A. Normal working hours are 8:00 A.M. to 5:00 P.M., Monday through Friday. If the Contractor desires to work at a time other than normal work hours, on weekends, or on holidays, the Contractor must request permission from the Engineer at least 48 hours in advance of such work. Approval must be received prior to the requested work time.

01040 COORDINATION

- A. Coordinate the work of the several trades to assure the efficient and orderly sequence of construction elements.
- B. See also General Conditions.

01045 CUTTING AND PATCHING

- A. Openings and chases may not be shown on the Drawings. It is the responsibility of the Contractor to provide chases, channels or openings where needed.
- B. After completion of openings, channels and/or chases, the Contractor shall close and finish same.
- C. Permission shall be obtained from the Engineer before cutting beams, arches, lintels or other structural members. Concrete ground covers shall be neatly saw cut through their entire thicknesses.
- D. Seal penetrations watertight through floors and walls as needed; restore or preserve fire-rated construction.
- E. See also General Conditions.

01090 STANDARDS, CODES AND SPECIFICATIONS

- A. For products specified by association or trade standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.

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- B. References to standard specifications and codes refer to the editions current at the bid due date. References include their addenda and errata, if any, and shall be considered a part of these Specifications as if they were printed herein in full.

01100 SPECIAL PROJECT PROCEDURES

- A. At least seventy two (72) hours prior to the start of construction, the Contractor shall notify the following agencies and contacts:
 - 1. Office of the Town of Monroe Fire Marshal.
 - 2. State of Connecticut Call Before You Dig at (800) 922-4455.
- B. At least 48-hours prior to the start of construction, the Contractor shall provide the Engineer written assurance that the above contacts have been appropriately notified. The Contractor shall transmit to the Engineer at the time of issuance copies of all communications with government agencies related to the Work.
- C. The Contractor shall be responsible for the protection of all existing structures against hydraulic uplift until the removal of the UST has been completed.
- D. The Contractor shall provide documentation to the Owner showing that all materials disposed off-site for the Contract were disposed of in accordance with applicable local and State regulations. The Contractor shall obtain written authorization from the Engineer or Owner prior to removing excavated soil from sites. Approval shall be based on completed observations and/or chemical testing for contamination.

01121 SALVAGEABLE MATERIALS

- A. See Demolition and Alteration Specifications Section 02050.

01210 PRECONSTRUCTION CONFERENCE

- A. The Engineer will organize a Preconstruction Conference and notify the parties concerned.

01310 CONSTRUCTION SCHEDULE

- A. Within 7 calendar days after receiving the Notice to Proceed, the Contractor shall submit to the Engineer for review and approval a Construction Progress Schedule listing anticipated dates for the occurrence of major project milestones including but not limited to: submit documentation for the new tank shop drawings, delivery date for the tank, removal of the existing tank and installation of new tank and project completion.

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01516 TEMPORARY SANITARY FACILITIES

- A. The Contractor can use the nearby restroom facilities at the Owner's facility where work is to be performed.

01518 FIRE PROTECTION

During construction, the Contractor shall be responsible for loss or damage by fire to the work of the Contract until completion. Any fire used by the Contractor for working purposes shall be extinguished when not in use. Bitumen or tar shall be melted on the ground only. No flammable material shall be stored in any building in excess of amounts allowed by the authorities. No gasoline shall be stored in or close to any building including any temporary construction trailer at any time. The Contractor shall assign a responsible onsite employee to be in charge of fire protection measures during construction.

- A. Furnish, at a minimum, two fire extinguishers in accordance with requirements of NFPA 10 and 30A.

01520 CONSTRUCTION EQUIPMENT

- A. The Contractor shall furnish tools, apparatus and appliances, hoists and/or cranes and power for same, scaffolding, runways, ladders, temporary supports and bracing and similar work or material necessary to ensure convenience and safety in the execution of the Contract. The responsibility for design, strength and safety of all such items shall remain with the Contractor. All such items shall comply with OSHA regulations and applicable local and state codes, statutes, rules and regulations.

01535 PROTECTION

- A. Protect buildings, equipment, furnishings, grounds and plantings from damage. Any damage shall be repaired or otherwise made good at cost of the Contractor.
- B. Provide protective coverings and barricades to prevent damage or physical injury. The Contractor shall be held responsible for, and must make good at his own expense, any water or other type of damage due to improper coverings. Protect the public and facility personnel from injury.
- C. Provide temporary protection for installed products. Control traffic in immediate area to minimize damage.

01540 SECURITY

- A. Provide security program and facilities to protect work equipment and area from unauthorized entry, vandalism and theft. Coordinate with Owner's security program.
- B. The Contractor shall be solely responsible for damage, loss or liability due to theft or vandalism of the Contractor's equipment and materials.

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- C. All employees of the Contractor and any subcontractors shall be prohibited from carrying such items as weapons, drugs, or alcohol to the site.

01550 TRAFFIC WAYS

- A. The Contractor may use on-site paved roads and parking areas but shall not encumber same or their access unless otherwise approved by the Engineer and Owner. Public roadways shall not be blocked by standing trucks, parked cars, material storage, construction operations, or in any other manner.
- B. Public roads and existing paved roads, drives and parking areas on Owner's property shall be kept free from scrap, waste, or debris due to construction operations and any damage to their surface caused by the Contractor shall be repaired by Contractor at its own expense.

01560 TEMPORARY CONTROLS

- A. The Contractor shall confine his construction activities only to areas required for the execution of the Work. Land resources within the project areas and outside limits of the Work as may be affected by the work of this Contract shall be preserved in their present condition, or be restored to a condition after completion of construction that will appear natural.

01610 TRANSPORTING AND HANDLING

- A. Materials and equipment shall be delivered, stored and handled to prevent intrusion of foreign matter and damage by weather or breakage. Packaged materials shall be delivered and stored in original, unbroken

01620 STORAGE AND PROTECTION

- A. Store products in accordance with manufacturer's instructions with seals and labels intact and legible. Store sensitive products in weather-tight enclosures; maintain within temperature and humidity range required by manufacturer.
- B. Contractor shall place and store loose granular material on solid surfaces in a well-drained area; prevent mixing with foreign matter.
- C. Arrange storage to provide access for inspection. Periodically inspect to ensure products are undamaged and are maintained under required conditions. Keep log showing date, time and problems, if any.

01710 FINAL CLEANING

- A. The Contractor, preparatory to final inspection, shall provide final cleaning of all work in readiness for use and occupancy of the project by the Owner.

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- B. This final cleaning shall be complete in every manner.
- C. If the Contractor fails to clean up, the Owner may do so and the cost thereof shall be charged to the Contractor and may be deducted from any payment made to the Contractor by the Owner.

01720 PROJECT RECORD DOCUMENTS

- A. The Contractor shall keep one copy of the Specifications, Drawings, Addenda, approved Shop Drawings, Change Orders, Schedules and Instructions in good order at the site and marked to record all changes made during construction. The documents shall be available to the Engineer, Owner, or their authorized representatives at all times.
- B. Record Drawings During Construction:
 - 1. At the conclusion of construction, the Contractor shall turn one set of the marked-up drawings with recorded changes over to the Engineer.

01740 WARRANTIES

- A. The Contractor shall guarantee all materials and workmanship for a period of at least one year from the date of acceptance of the Work. The Contractor shall provide the warranties for the new tank and equipment that is installed.

END OF SECTION

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SECTION 02050

DEMOLITION AND ALTERATIONS

PART 1 - GENERAL

1.01 DESCRIPTION

- A. This item shall consist of the demolition and alteration of existing facilities as shown on the Drawings and as ordered in accordance with this Specification.

1.02 RELATED WORK

- A. Section 02210: Earth Excavation, Backfill, Grading, Paving and Landscaping
- B. Section 02220: Contaminated Materials Excavation, Staging, Loading, Transportation and Disposal

1.03 SUBMITTALS

- A. The Contractor shall submit written documentation in the form of a bill of lading to the Owner indicating the final disposal locations of each removed tank and piping as well as all other nonregulated materials taken off the site. All disposal locations must be preapproved by the Owner prior to the start of construction.
- B. The Contractor shall submit written documentation in the form of a completed nonhazardous waste manifests, as appropriate, to the Owner indicating the final disposal location of any petroleum product, impacted soils, oily water, and tank residue/sludge. All disposal locations must be preapproved by the Owner and Engineer prior to the start of construction. Any disposal documentation will be signed by the owner.
- C. The Contractor shall submit for Engineer's approval, prior to start of Work, written documentation (e.g., permits, approvals) confirming that all proposed disposal/treatment locations for the tank, petroleum product, impacted soils, piping and appurtenances, residue/sludge and other materials are licensed and permitted in accordance with all applicable codes, laws and standards.

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- D. Where work under this section may disrupt Owner operations or use of facilities, provide detailed demolition plan and schedule to the Engineer for approval.

PART 2 - PRODUCTS

Not Applicable

PART 3 - EXECUTION

3.01 GENERAL

- A. Contractor shall accomplish demolition and removal of existing construction, utilities, existing tank equipment, and appurtenances without damaging integrity of existing structures, equipment, and appurtenances that are to remain. The UST and piping shall be removed from the premises within 24 hours from the time removed from the ground.
- B. Contractor shall store equipment to be salvaged for relocation on-site where directed by the Engineer, and if necessary, protect from damage during work.
- C. Contractor shall repair or remove and replace items that are damaged by Contractor. Repair and installation of damaged items at no additional compensation and to condition at least equal to that which existed prior to start of work.
- D. Contractor shall exercise all necessary precautions for fire prevention. Acceptable fire extinguisher shall be made available at all times. Burning of demolition debris is not permitted on or near site. Use of burning torches will not be permitted without site-specific written authorization from Owner.
- E. Contractor shall provide protection of persons and property throughout progress of work. Proceed in such manner as to minimize spread of dust and flying particles and to provide safe working conditions for personnel.
- F. Contractor shall be allowed to block off traffic flow within designated work area during construction operations.

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- G. Contractor shall obtain permission from the Engineer before abandoning or removing any existing structures, materials, equipment and appurtenances not specified in the specifications.

3.02 DEMOLITION

- A. Confine apparatus, storage of material, demolition work, new construction, and operations of workmen to the designated work area and other areas that will not interfere with continued use and operation of the entire facility. Provide and maintain lights, barriers, and temporary passageways for free and safe access.
- B. Wet down work during demolition operations as necessary to prevent dust from arising. All curbing and concrete ground covers shall be neatly saw cut through their entire thicknesses.
- C. Provide shoring or bracing where necessary to prevent settlement or displacement of existing or new structures.
- D. Plug with non-shrinking water plug or mortar any remaining holes resulting from removal of vent pipe brackets, return and supply pipes, and other conduits that are removed or abandoned due to demolition and/or removal and match the surfaces to those existing.
- E. Contractor shall excavate and remove the existing tank and appurtenances as indicated on the Drawings. The Contractor shall notify and shall be required to receive approval to start from the Owner at least seven (7) calendar days prior to the start of the tank emptying and excavations. The tank shall be removed and disposed of in accordance with the requirements of RCSA 22a-449(d), NFPA 30, NFPA 326, API 1604, and API 2015. Removal of a tank shall include all necessary pumping out of excess product and residue, purging, defuming, etc. The tank and product removed shall become the responsibility of the Contractor and shall be removed from the site and disposed of in accordance with all applicable local, state, and federal laws and regulations.
- F. Tank system piping and conduits shall be drained of contents. The existing piping shall be used as conduits for the new fuel supply and return lines below the building.
- G. In order to allow for the collection and analysis of soil samples for verification of the presence or absence of fuel contamination, the Contractor shall keep the tank and piping excavation(s) open for a minimum of two working days awaiting soil results. The Contractor shall provide, install and maintain fencing and other appropriate approved barricades to prevent individuals or vehicles from falling into excavations. The Contractor shall prevent surface waters from entering the tank grave during excavation. The Contractor shall not be entitled to additional compensation for compliance with these requirements.

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- H. During removal of the tank and/or appurtenances, if the Contractor encounters material that is believed to be contaminated or hazardous, the Contractor shall cease work in the area and notify the Engineer.
- I. The Engineer will notify the Owner of any discovered petroleum contaminated soils. The Owner will notify the Oil and Chemical Spill Response Division of the Bureau of Waste Management, State of Connecticut Department of Energy and Environmental Protection. There shall be no work in any area identified as having contaminated or hazardous material or suspected of having contaminated or hazardous material without prior approval of the Engineer.
- J. The Contractor shall remove existing tank appurtenances as indicated on the drawings and in the specifications.
- K. The Contractor shall remove existing wooden platform as indicated on the drawings and in the specifications.

3.03 TANK ATMOSPHERE

A. Testing

1. The tank atmosphere and the excavation area should be continuously monitored by the Contractor for flammable vapor and oxygen concentrations. Monitoring shall be performed with a combustible gas indicator provided by the Contractor which is properly calibrated and thoroughly checked and maintained according to the manufacturer's instructions. Persons responsible for monitoring must be completely familiar with the use of the instrument and the interpretation of the instrument's readings.
2. The tank vapor space is to be tested by placing the combustible gas indicator probe into the fill opening with the drop tube removed or other tank opening. Readings should be taken at the bottom, middle and upper portions of the tank, and the instrument should be cleared after each reading. If the tank is equipped with a non-removable fill tube, readings should be taken through another opening. Liquid product must not enter the probe. Readings of 20 percent or less of the lower explosive limit (LEL) must be obtained before the tank is considered safe for removal from the ground unless otherwise approved by the Engineer.
3. Combustible gas indicator readings may be misleading if the tank atmosphere contains less than 5 percent by volume oxygen, as in a tank vapor-freed with CO₂, N₂, or another inert gas. In general, readings in oxygen-deficient atmospheres will be on the high, or safe, side. Therefore, the Contractor shall also use an oxygen indicator to assess the oxygen concentration in the tanks.

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3.04 DISPOSAL AND SALVAGE

- A. Tank, piping, materials, equipment, debris, and associated appurtenances removed, that are not designated for reuse, become the property of Contractor and shall be removed from site within 24 hours and disposed of at no additional compensation than already provided for in the bid items.
- B. Remaining fuel product and liquids in the tank system, piping and appurtenances or generated from tank cleaning shall be removed and disposed of offsite by the Contractor. The Contractor will not be compensated for the removal and disposal of any liquids added by the Contractor to the tank system.
- C. Petroleum impacted soils shall be removed and disposed of offsite by the Contractor at the direction of the Engineer and at the unit rates specified in the Contractor's bid.
- D. No salvage items are designated for this project except as may be directed by the Owner prior to the start of the work. In regards to reuse of the tank, Connecticut RCSA Section 22a-449(d)-1(e) (3) specifies "No underground component of a facility shall be moved from one location to another without prior written approval of the commissioner."

END OF SECTION

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EARTH EXCAVATION, BACKFILL
GRADING, PAVING AND LANDSCAPING
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SECTION 02210

EARTH EXCAVATION, BACKFILL, GRADING, PAVING AND LANDSCAPING

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Work included under this section consists of Trench Excavation, Backfill, Drainage, Paving, Topsoil & Seeding, Wooden Platform Installation and all other work indicated on the Drawings and not covered in the Specifications.

1.02 RELATED WORK

- A. Section 02050: Demolition and Alterations
- B. Section 02220: Contaminated Materials Excavation, Staging, Transportation and Disposal

1.03 QUALITY ASSURANCE

- A. The Standard Specifications referenced herein shall be State of Connecticut, Department of Transportation, Standard Specifications for Roads, Bridges and Incidental Construction - Form 816, and or addenda hereinafter referred to as "Form 816."
- B. Wherever a percentage of compaction is indicated or specified, use percent of maximum dry density as determined by Method D of AASHTO T-180. The Contractor shall retain the services of qualified field and lab testing services to document compliance with these requirements.

1.04 SUBMITTALS

- A. Submittal of all proposed backfill sources and certifications that free draining material and clean soil used for excavation backfill are in accordance with this specification.

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PART 2 - PRODUCTS

2.01 GENERAL

- A. Processed Aggregate Base Course: The subbase shall consist of a clean soil-aggregate mixture of gravel and/or broken stone aggregate, placed to be placed below the sidewalk or where directed by the Engineer and constructed in accordance with these specifications. All materials for this work shall conform to the requirements of Article M.05.01 of Form 816. The material shall also be certified clean and meet the soil requirements specified herein.
- B. Pea Gravel: Shall be rounded stone and conform to Article M.01.01, #67 of Form 816 and shall not contain reclaimed miscellaneous aggregate. Pea gravel shall be used as backfill around and over the UST and for the pipe bedding and cover (at least over the piping). The material shall also be certified clean and meet the soil requirements specified herein.
- C. Free Draining Material: This material shall be furnished and placed in accordance with these specifications and used as trench backfill / pipe cover, or as ordered by the Engineer, or wherever specified. Material for this work shall meet the requirements of Article M.02.05, grading C of Form 816 and shall not contain reclaimed miscellaneous aggregate. The material shall also be certified clean and meet the soil requirements specified herein.
- D. Top Soil: The material shall conform to the requirements of sub article M.13.01-1 of Form 816. The top soil shall also be certified clean and meet the soil requirements specified herein.
- E. Geotextile Fabric: the material shall consist of a Mirafi 140 N or equivalent.
- G. Turf Establishment: The materials and construction methods for this work shall conform to the requirements of Section 9.50 of Form 816, with the exception of the seed mixture. Seed mixtures shall be proportioned by weight as follows:

Common Name	Mixture Percent by Weight	Percent Pure Live Seed
Red Fescues	30	95
Kentucky bluegrass	20	95
Perennial Ryegrass	30	95

Weed seed shall not exceed 1 percent by weight of the total mixture. Wet, moldy, or otherwise damaged seed shall be rejected.

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PART 3 - EXECUTION

3.01 DESCRIPTION

- A. Carry out program of excavation in such manner as to eliminate all possibility of undermining or disturbing foundations of existing structures or of work previously completed under this contract.
- B. Make all excavations in open, except as otherwise specified or permitted.
- C. Excavation, trenching and shoring requirements for the protection of employees in accordance with OSHA Regulations, 29 CFR Part 1926 Subpart P shall be employed and enforced.
- D. Length of trench open at any one time will be controlled by conditions and subject to any limits that may be prescribed by the Engineer.
- E. The Engineer will require that pavement and concrete be cut through entire depth with pneumatic tools, without extra compensation to Contractor.
- F. There are pipes, drains, and other utilities in certain locations not indicated on Drawings. No attempt has been made to show all services and completeness or accuracy of information given is not guaranteed. In the case of damages to unmarked underground utilities they are not the responsibility of a "Call-Before-You-Dig" utility.
 - 1. Contractor shall contact "Call-Before-You-Dig" for underground utilities information a minimum of 72 hours prior to start of construction. Contractor shall obtain all available underground utility information from the Owner prior to excavation. Contractor shall locate all known utilities prior to excavation and shall repair/replace all damage, by the Contractor at no extra to the Owner. Utilities damaged by the Contractor shall be repaired with equal materials in a schedule and to the specifications of the Owner.
- G. All existing pipes, poles, wires, utilities, fences, curbing, property line markers, and other structures, which the Engineer decides must be preserved in place without being temporarily or permanently relocated, shall be carefully supported and protected from damage by the Contractor. Should such items be damaged, they shall be restored by the Contractor, without compensation, to at least as good condition as that in which they were found immediately before the Work was begun.

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- H. Whenever the Contractor encounters or damages previously unknown or undocumented existing structures as described below he shall perform all or a portion of the work described as directed in writing by the Engineer to change the location of, remove and restore, or replace such structures, or to assist the Owner thereof in so doing. For all such work outside the written scope of work, the Contractor shall be paid as Extra Work.
- I. In relocating such interfering existing pipes or other structures, the Engineer shall include for payment only those new materials and labor which, in his judgment, are necessary to replace those unavoidably damaged.
- J. The structures to which the provisions of the preceding two paragraphs shall apply include pipes, wires, and other structures which meet all of the following: (a) are not indicated on the drawings or otherwise provided for, (b) encroach upon or are encountered near and substantially parallel to the edge of the excavation, and (c) in the opinion of the Engineer will impede progress to such an extent that satisfactory construction cannot proceed until they have been changed in location, removed (to be later restored), or replaced.
- K. Branches, limbs and roots shall not be cut except by permission of the School District.
- L. Restoration of existing property or structures should be done as promptly as practicable and not left until the end of the construction period.
- M. If material unsuitable for foundation (in the opinion of the Engineer) is found at or below the grade to which excavation would normally be carried out in accordance with the drawings and/or specifications, the Contractor shall remove such material to the required width and depth and replace it with thoroughly compacted, material of a type as directed. For all such work the Contractor shall be paid as Extra Work.
- N. Unless otherwise directed by the Engineer or Owner, surplus excavated materials not needed and uncontaminated shall be hauled away and disposed of by the Contractor, at his expense, at appropriate locations, and in accordance with arrangements made by him and in accordance with all federal, state and local laws and regulations. Excavated soil suspected of contamination may not be removed from the site prior to sampling and chemical analysis and written approval from the Engineer or Owner. The Contractor is responsible for all sampling and analysis for standard waste characterization and disposal analyses. Any additional waste characterization sampling will be the responsibility of the Contractor. Contractor must provide certified letter or signed certificate of disposal/treatment indicating disposal of surplus excavated material at an Owner preapproved location.

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- O. During progress of work, the Contractor shall conduct his operations and maintain area of his activities, including sweeping and water sprinkling of paved surfaces and covering of soil stockpiles as necessary, so as to minimize the creation and dispersion of dust. If the Engineer decides that it is necessary to use additional water for more effective dust control, the Contractor shall furnish and apply additional water at no additional cost, as directed.
- P. In general, and unless other material is indicated on drawings or specified, material used for backfilling trenches and excavations around structures shall be suitable material which was removed in the course of making the construction excavations as stated in Section 2.01. Reuse of existing materials for backfill shall be preapproved by the Engineer. If sufficient suitable material is not available from the excavations, the backfill material for the UST and piping shall be pea gravel to at least 12-inches above the UST and 6-inches above the piping. Trench and pavement subgrade backfill shall be mechanically compacted in 8-inch lifts maximum with a vibratory plate compactor using a minimum of four passes. Pea gravel around the UST shall be carefully placed to avoid voids and bridging. The nature of materials will govern both their acceptability for backfill and methods best suited for their placement and compaction in backfill. Pea gravel shall be separated from upper free draining materials with geotextile fabric. The depth of burial of the tank shall conform with manufacturers requirements and NFPA 30 and 31.
- Q. Concrete sidewalks shall be placed upon a completed sub base, which has been brought to proper grade and cross-section by prescribed means. This work shall be performed in accordance with these specifications and in conformity with the line, grade, and thickness of the existing sidewalk.
- R. A new wooden platform shall be replaced upon completion, this shall be performed in accordance with these specifications and in conformity with materials, grades, and thickness to the existing platform and in accordance with the town building codes.
- S. Restoration and establishment of landscaping shall consist of furnishing, placing and shaping topsoil in all landscaped areas to a minimum in-place thickness of 6 inches and in accordance with Standard Specifications Form 816. Turf establishment in these areas shall consist of providing an accepted uniform stand of established perennial turf grasses by furnishing and placing fertilizer, seed and mulch on all areas to be treated as shown on the Drawings and where designated by the Engineer

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3.02 SEPARATION OF SURFACE MATERIALS

- A. Remove only existing concrete sidewalk designated in the bid documents and agreed upon by the Engineer and that is necessary for execution of work. Additional removal beyond that specified will be at the expense of the Contractor. The limits of sidewalk removal / replacement shall be as specified during the mandatory pre-bid site walk.
- B. Carefully remove loam and topsoil from excavated areas and store separately for further use or furnish equivalent loam and topsoil as directed by the Engineer.

3.04 DRAINAGE AND DEWATERING

- A. Dewatering will not be required unless any ground water is encountered during the tank removal or soil excavation or as directed by the Engineer due to unsuitable conditions. Contractor shall protect subgrades soils from softening, undermining, washing out, and damage by rain or water accumulations.
- B. Precautions shall be taken to protect uncompleted work from flooding during storms or from other causes. All pipe lines or structures not stable against uplift during construction or prior to completion shall be thoroughly braced or otherwise protected.
- C. Prevent surface water from flowing into excavations and from flooding the project area, as well as surrounding areas. Do not allow water to accumulate in excavations. Provide suitable temporary pipes, flumes or channels for water that may flow along or across the site of work.
- D. The Contractor shall be prepared to install a sump(s) for dewatering the excavation and shall supply all sump materials, pump(s), hoses tank for temporary water storage and particulate settlement. Under the direction of the Engineer, the Contractor shall be prepared to dispose of recovered water. The Contractor shall test and dispose of liquid products in accordance with approved procedures, meeting local, state and federal laws and regulations. The potential exists for contaminated groundwater to be present in trenches and tank excavations. The Contractor shall not dispose of any contaminated water into sanitary sewers or stormwater drains. Alternatively, recovered water may be discharged with the approval of and under the direction of the Engineer. Contaminated water shall be paid for at the unit price listed in the proposal for contaminated ground water removal and disposal.
- E. All pumped or drained water shall be disposed of or discharged, as directed by the Engineer, without undue interference to other work, damage to pavements, other surfaces, or property.

3.05 EXCAVATION NEAR EXISTING STRUCTURES

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- A. Discontinue digging, by machinery, when excavation approaches pipes, conduits, or other underground structures. Continue excavation by use of hand tools.

Include such manual excavation, in work to be done, when incidental to normal excavation and under items involving normal excavation.

- B. Excavate test pits, when determination of exact location of pipe or other underground structure is necessary for doing work properly.

3.06 CARE AND RESTORATION OF PROPERTY

- A. Do not use or operate tractors, bulldozers, or other power-operated equipment on paved surfaces when treads or wheels of which are so shaped as to cut or otherwise injure such surfaces.
- B. Restore all surfaces that have been injured by the Contractor's operations, to a condition at least equal to that in which they were found immediately before work commenced. Suitable materials and methods should be used for such restoration.

3.07 UNAUTHORIZED EXCAVATION

- A. Backfill, with material as directed by the Engineer, when bottom of any excavation is taken out beyond limits indicated or prescribed. This work shall be performed by the Contractor without additional compensation.

3.08 TOPSOIL

- A. Topsoil shall be placed and shaped in accordance with Section 9.44 of Form 816. Topsoil source information, chemical test data, and samples shall be provided to the Engineer for preapproval to document that the soil is free of contamination and clean in accordance with these specifications.

3.09 TURF ESTABLISHMENT

- A. Turf establishment shall be completed in accordance with Section 9.50 of Form 816, except that mowing and a second application of fertilizer will not be required. It is expected that a reasonable stand of grass will be achieved by the Contractor, or re-application of seed fertilizer or mulch will be required at no cost to the Owner.

3.10 WOODEN PLATFORM

- A. Remove and replace in kind the wooden landing to the boiler room. The landing consists of a 3'x 3.75' wood deck.
- B. All structural members (joists, beams, piers, posts and decking) need to achieve a 40-pound per square foot live load design and be pressure treated.

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- C. Wood joist shall be 2x8 pressure treated maximum span 16-inch on center.
- D. The landing shall be lagged into the concrete foundation on maximum 2 foot centers minimum lag shield anchors 3/8-diameter with penetration of 1-3/4-inches.
- E. Footings shall be installed as per the local building code requirements.
- F. All fastening devices, nails, lag anchors, joist hangers, post anchors, etc. should be made of galvanized steel or an equivalent corrosion resistant material.

END OF SECTION

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SECTION 02220

CONTAMINATED MATERIALS EXCAVATION, STAGING, LOADING,
TRANSPORTATION AND DISPOSAL

PART 1 - GENERAL

1.01 DESCRIPTION

- A. The procedures outlined in this Technical Specification shall be followed during the excavation, staging, loading, transportation, and disposal of contaminated materials generated according to the following scenarios:
 - 1. Contaminated soil generated during excavation and construction activities, and
 - 2. Contaminated liquid, No. 2 fuel oil product, and solid waste, other than soil, such as concrete debris from slab produced by the Contractor during construction/demolition and decontamination activities.
- B. The Contractor shall be responsible for providing the Engineer all sampling and analyses required for disposal. The Engineer shall be responsible for properly characterizing for disposal all material prior to removing material from the site. The waste characterization analyses requirements shall be submitted to the Engineer prior to start of tank removal activities.
- C. All waste generated by the Work, including all impacted excavated material, shall be removed from the site after approval by the Engineer and within 10 business days of the time the waste is generated and transported directly to an approved disposal facility as specified. Storage of any waste on-site overnight shall be permitted in the manner and location specifically approved by the Engineer and Owner.
- D. The Contractor shall load contaminated soil into trucks for transportation to a disposal/treatment facility licensed to accept such waste soil. For contaminated soil removal and disposal, "polluted" soils are defined based on CTDEP's Remediation Standard Regulations (RSRs) as specified in the Sections 22a-133k-1 through 22a-133k-3 of the Regulations of Connecticut State Agencies (RCSA). The Contractor shall load and transport contaminated liquid and solid waste, other than soil, to an approved and permitted waste disposal/treatment facility.

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- E. Materials removed from the site shall only be transported directly to facilities which have received prior approval of the Engineer and Owner. No materials shall be added to or removed from transport vehicles between their time of departure from the site and their time of arrival at the approved facility for their disposal.
- F. The Contractor shall use only properly permitted Owner-approved waste transporters. All vehicles and drivers shall be permitted and licensed in accordance with all applicable federal, state and local laws and regulations including the laws and regulations of governing agencies which have jurisdiction over areas through which the waste will be transported.
- G. Certified weight scale tickets showing the weight of the vehicle at the time of arrival and departure from the disposal facility shall be provided as a prerequisite to payment for all waste material transported off-site. The weight tickets shall be signed and dated by a representative of the Contractor certifying to the accuracy of all measurements, the date and time of arrival and departure of each vehicle, the disposal location and the vehicle identification number.
- H. The Contractor shall complete all required manifest forms and bills of lading as required by applicable laws and regulations for transportation and disposal of materials off-site. The Contractor shall provide copies of all required manifests and bills of lading to the Engineer along with all requested backup documentation. The Owner or its designated representative will sign manifests and bills of lading. The Contractor shall be responsible for assuring that all notifications, labeling, documentation, sampling, analysis, transportation and disposal requirements of the disposal facility, and federal, state and local governments are complied with and properly documented.
- I. Contractor's bid price shall include restoration of excavated and disturbed surfaces as a result of the tank closure activities including: (1) topsoil, fertilizer, seeding, and mulch; and (2) sweeping paved areas. Damage to existing paved surfaces and curbing necessary to complete the tank closure by the Contractor shall be repaired and/or restored by the Contractor according to applicable drawings and specifications at the specified unit cost

1.02 RELATED WORK

- A. Section 02050: Demolition and Alterations.
- B. Section 02210: Earth Excavation, Backfill, Grading, Paving, and Landscaping.

1.03 QUALITY ASSURANCE

- A. Where "Form 816" is used, it shall mean "State of Connecticut Department of Transportation Standard Specifications for Roads, Bridges and Incidental Construction, Form 816, 2004."

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- B. Scales used for determination of weight for contaminated soil disposal and imported clean backfill soil shall be certified by the State of Connecticut.
- C. Soil encountered during the tank removals which is contaminated shall be managed by the Contractor at the Engineer's direction. Soil management shall also include tank grave sampling and testing of soils by the Contractor to determine if soil is contaminated.

1.04 SUBMITTALS

- A. The Contractor or approved subcontractors shall prepare and submit to the Engineer, prior to the initiation of the tank removals and any contaminated soils excavation, a Health and Safety Plan (HASP) for work associated with any potential contaminated soils at the site. This plan shall address all of the activities which the Contractor will perform in fulfillment of the Contract, and shall comply in all aspects with OSHA regulations for hazardous waste operations (29 CFR 1910.120). The Contractor shall make the HASP available to authorized personnel who require access to any contaminated area or exclusion zone. The health and safety of the Contractor's employees remains solely the responsibility of the Contractor.
- B. The Contractor or his approved subcontractor shall prepare and submit to the Engineer, prior to the initiation of the contaminated or hazardous material handling work, a list of personnel expected to be engaged in site activities and certify that said personnel have completed the training requirements stipulated in 29 CFR 1910.120, are currently monitored under a medical surveillance program in compliance with those regulations, and that they are fit for work under Level C conditions. The Contractor or his approved subcontractor shall provide documentation of appropriate OSHA training for all site personnel.
- C. The Contractor shall prepare and maintain all material shipment records required by applicable Federal, State, and local laws and regulations. These records shall include but not be limited to: scale tickets, bill of lading, and manifests. The Contractor shall provide copies of all documentation to the Engineer.
- D. The Contractor shall submit written documentation to the Engineer prior to any removals from the site identifying the final proposed disposal/treatment location of contaminated liquid, soils, and solid wastes for approval by the Owner. At that time, the Contractor shall also submit copies of all permits granting approval of the location for material disposed/treated of at any offsite facility including but not limited to any permitted landfill or thermal destruction facility.
- E. Following all waste removals, the Contractor shall provide Certificates of Treatment/Destruction/Recycling from the facilities to the Owner for all regulated and hazardous wastes removed from the site.

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PART 2 - PRODUCTS

2.01 GENERAL

- A. Plastic Sheet: Provide polyethylene plastic sheeting with a minimum thickness of 6 mil and a minimum width of ten (10) feet. Plastic sheeting of 10 mil thickness will also be required as specified.

PART 3 - EXECUTION

3.01 HEALTH AND SAFETY

- A. Requirements of 29 CFR 1910.120 and 29 CFR 1926 Subpart P shall be followed by the Contractor and all of his approved subcontractors.

3.02 LOCATION OF CONTAMINATED SOIL

- A. If the Contractor identifies material that is believed to be contaminated on the project, he shall immediately cease work in the area and contact the Engineer. If the Engineer cannot be contacted, the Contractor shall contact the Owner's Representative.

3.04 REMOVAL AND STAGING OF CONTAMINATED SOIL

- A. Area Preparation: Prior to beginning excavation, all standing liquids and associated tank bottom sediments and sludge shall be removed from the tank and underground piping as described in Section 02050, Demolition and Alterations, to the maximum extent feasible.
- B. Excavation: The State of Connecticut Department of Environmental Protection (CTDEP) Regulations Sec 22a-133K-1 through Sec 22a-133K-3 shall be used by the Engineer for the standard in determining the limits for contaminated soil excavation.
- C. The excavation of contaminated soil shall not extend below the water table more than one (1) foot, below areas which may compromise structural integrity of buildings or utilities, nor below barriers to contaminant movement such as clay, silt lenses, or termination of soil at the bedrock surface unless indicated on the plans or ordered by the Engineer. If necessary the Engineer, with guidance from a CTDEEP representative, if present, will determine the reasonable depth of contaminated soil excavation. The Contractor shall safely maintain the tank and piping excavations open for a period of time not to exceed two (2) business days, unless otherwise directed by the Engineer. Contractor shall utilize proper equipment (e.g., excavator bucket) to assist the Engineer in the collection of post-excavation bottom and sidewall soil samples. Additional excavation may be required as directed by the Engineer. The area

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shall be backfilled by the Contractor only after receiving written authorization from the Engineer.

- D. Staging: Excavated soil that has been preliminarily classified as "contaminated" material shall be staged on-site in the following manner as directed by the Engineer.
1. All excavated soil shall be underlain by two overlapping layers 10-mil plastic sheet of sufficient size to ensure that seepage of soil or water is prevented.
 2. All excavated soil shall be covered with a 6-mil plastic sheet of sufficient size to ensure that infiltration of precipitation or generation of dust is prevented. The cover shall be held in place with two (2) rows of hay bales continuously around the perimeter to form a soil-retaining trough. Wrap bottom 6-mil plastic sheet over trough and under outer hay bales.
 3. The staging area shall be inspected regularly by the Contractor to ensure that the cover or other containment structure has not been damaged, and that there is no apparent leakage from the pile. If the plastic cover has been damaged, or there is evidence of seepage from the piles, the Contractor shall replace the plastic sheet cover material as needed to prevent the release of materials to the environment from the piles. It is the Contractor's responsibility to prevent the pile from releasing contaminants to the environment throughout the duration of the project. The staging area is restricted to within the work area limits shown on the Drawings unless approved otherwise by the Engineer or Owner.
 4. All labor, tools, materials, and equipment necessary for containment of excavated soil shall be provided by the Contractor.
 5. The staging area shall be inspected regularly by the Contractor to ensure that the cover or other containment structure has not been damaged, and that there is no apparent leakage from the pile. If the plastic cover has been damaged, or there is evidence of seepage from the piles, the Contractor shall replace the plastic sheet cover material as needed to prevent the release of materials to the environment from the piles. It is the Contractor's responsibility to prevent the pile from releasing contaminants to the environment throughout the duration of the project. The staging area is restricted to within the work area limits shown on the Drawings unless approved otherwise by the Engineer or Owner.

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6. All labor, tools, materials, and equipment necessary for containment of excavated soil shall be provided by the Contractor.

3.05 TRANSPORTATION

A. Drums:

1. If drums are utilized, the Contractor shall load and transport the drums of contaminated liquid and solid waste, other than soil, to the appropriate permitted waste disposal/treatment facilities, as arranged by the Contractor and approved by the Engineer and Owner.
2. Leaking or deteriorated drums shall be overpacked prior to shipping.
3. Drums containing waste shall not be double stacked at any times on site or during transportation.
4. Truck beds and walls must be clean and smooth to prevent damage to the drums.
5. Drums shall be secured, as needed, to prevent shifting during transport.

B. Bulk Material:

1. All vehicles used by the Contractor to transport, "contaminated" and regulated liquid, solid waste, and soil shall be registered with the CTDEEP as required by law. The materials shall be covered or protected during transport to ensure that seepage of waste material, water or dust into or out of the vehicle is prevented. Transport vehicles, gross vehicle weight and loading and unloading procedures shall meet all appropriate state and federal DOT standards.
2. The Contractor shall load and transport nonhazardous bulk waste material, other than soil, to a permitted solid waste disposal/recycling facility, as arranged by the Contractor and preapproved by the Engineer and Owner.
3. Bulk solids shall be kept several inches below the top of the truck container.
4. The load shall be secured to prevent shifting or release during transport.

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3.06 DISPOSAL

- A. Based on the finalized soil classification provided by the Contractor and reviewed by the Engineer, contaminated soil shall be loaded by the Contractor onto vehicles for transport to a permitted disposal/treatment facility in the following manner:
 - 1. Contaminated soil will be loaded for transportation by the Contractor and transported to the disposal/treatment facility. Contaminated soil loading and transportation arrangements will be coordinated between the Contractor and the Engineer. The Contractor shall coordinate his work schedule with the schedule of vehicles to minimize loading time for those vehicles.
 - 2. No contaminated soil shall be loaded onto vehicles until the Engineer has completed his review of the soil laboratory analytical results and approval from the Engineer is received by the Contractor.
 - 3. During loading operations and final clean-up of the staging area, the Contractor shall prevent the mixing of contaminated soil with non-contaminated existing soil at the staging area. The Contractor shall pay for disposal of all additional soil that the Engineer deems to be contaminated as a result of the Contractor's failure to comply with this requirement.
- B. The Contractor shall coordinate the disposal of work generated materials which may be contaminated including reasonable amounts of materials generated by the Engineer and the Owner and at no cost to the Owner. These waste materials include decontamination rinse water, disposable personal protective equipment (PPE), and miscellaneous disposable support equipment.

3.07 DECONTAMINATION PROCEDURES

- A. The Contractor shall furnish labor, materials, water, power, tools, and equipment for decontamination of all personnel, equipment and supplies that enter the contaminated work area or are exposed to contaminated material.
- B. Methods - The decontamination procedure shall follow the requirements of 29 CFR 1910.120, as described in the Contractor's HASP and specified herein.
- C. Personnel Decontamination: The Contractor shall provide and maintain a decontamination area which is to be located in the decontamination zone. The Contractor shall coordinate the location of the decontamination zone with the Engineer. Decontamination of personnel and equipment is required after performance of activities in the exclusion zone (Hot Zone). The personnel decontamination area may be in the form of a mobile trailer or field station. Personnel decontamination shall, at a minimum, consist of: safe work practice, use of

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disposable protective clothing, personal hygiene, personal decontamination before breaks and each time workers exit the exclusion zone, and at the completion of each work day to prevent worker exposure and the spread of contaminants offsite. The Contractor shall use Chapter 10 of NIOSH Publication No. 85-115 when designing a decontamination plan.

This plan shall be in conformance with the requirements of 29 CFR 1910.120 and include those requirements specified herein.

1. Routine Decontamination:
 - a. Routine decontamination shall follow the guidelines of 29 CFR 1910.120.
2. Emergency Decontamination: Should a worker be splashed with contaminants, the worker shall be immediately escorted to the field decontamination station and be decontaminated in accordance with Contractor's HASP.

D. Equipment

1. All equipment shall be provided to the work site free of contamination. The Engineer retains express authority to prohibit from the site any equipment which in his opinion has not been thoroughly decontaminated prior to arriving at the project location. Any decontamination of the Contractor's equipment prior to arrival at the site shall be at the expense of the Contractor. The Contractor is prohibited from decontaminating equipment on the project site which is not thoroughly decontaminated upon arrival.
2. All equipment involved in Exclusion Zone (Hot Zone) activities shall be decontaminated each time it is removed from the Exclusion Zone. Equipment decontamination shall be performed in conformance with the requirements of 29 CFR 1910.120 as described in the Contractor's HASP.
3. The Contractor shall decontaminate all equipment which comes in contact with contaminated material, either directly or indirectly, (i.e., excavation, sampling and testing equipment), after completion of work at one location (i.e., tank excavation) and prior to beginning work at another location, if so directed by the Engineer.
4. Rinse water used for decontamination which contains chemicals used during decontamination or which may contain hazardous chemicals or pollutants from the equipment which was decontaminated shall be collected by the Contractor in drums or removed in bulk with the tank contents for proper offsite disposal by the Contractor, unless otherwise directed by the Engineer.

END OF SECTION

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DIVISION 3 CONCRETE

03300 CONCRETE WORK

1.0 FUEL TANK AND SIDEWALK CONCRETE

1.1 REMOVAL OF EXISTING CONCRETE AND BASE STONE

The Contractor shall remove and provide proper disposal of the existing reinforced concrete slab at the existing fuel tank and the adjacent sidewalk as directed by the Engineer. All existing piping, electrical sensors and wiring shall be located and protected. All base material removed from the excavation shall be provided with proper disposal as specified in Division 2 Section 02210.

1.2 NEW REINFORCED CONCRETE ABOVE FUEL TANK

- A. All work shall be in accordance with the latest edition of the State of Connecticut, Standard Specifications for Roads, Bridges and Incidental Construction, Form 816.
- B. All new base material shall be free draining material and compacted in a minimum of 8 inch lifts with four passes of a vibratory plate compactor or similar.
- C. Reinforcing shall be 6X6 – W2 X W2 welded wire reinforcing.
- D. Concrete shall be Class C, with a minimum 3 ksi compressive strength in 28 days.
- E. The new watertight manholes and sumps shall be installed in accordance with manufacturer's recommendations.
- F. Two coats of curing compound shall be applied to the finished concrete.

1.3 NEW CONCRETE SIDEWALK REPLACEMENT

- A. All work shall be in accordance with the latest edition of the State of Connecticut, Standard Specifications for Roads Bridges and Incidental Construction, Section 9.21 Concrete Sidewalks.
- B. The replacement sidewalk shall be the same thickness as the existing sidewalk.
- C. All new base material shall be in accordance with Section 02210 part 2.01 Processed Aggregate and a minimum of 6 inches thick.
- D. Concrete shall be Class C with a minimum of 3 ksi compressive strength at 28 days.
- E. Expansion joint material shall be placed at 20 foot spacing.
- F. Joints shall be placed into the concrete sidewalk at 5 foot spacing or match existing joint spacing.
- G. The sidewalk shall be broom finished.

END OF SECTION

DIVISION 22 PLUMBING AND TANKS

22400 FUEL TANK REPLACEMENT

PART 1 - GENERAL

1.1 SUMMARY OF THE WORK

1.1.1 CONTRACT DOCUMENTS AND RELATED REQUIREMENTS

Drawings, general provisions of the contract, including general conditions and other specifications, shall apply to the work of this section. The contract documents show the work to be done under the contract and related requirements and conditions impacting the project. Related requirements and conditions include applicable codes and regulations, notices and permits, existing site conditions and restrictions on use of the site, requirements for partial owner occupancy during the work, coordination with other work and the phasing of the work. In the event the Contractor discovers a conflict in the contract documents and/or requirements or codes, the conflict must be brought to the immediate attention of the Owner for resolution. Whenever there is a conflict or overlap in the requirements, the most stringent shall apply.

1.1.2 EXTENT OF WORK

- A. In general the work shall include the removal and replacement of the existing fuel tank located at the Stepney Elementary School.

1.1.3 RELATED WORK

- A. Earthwork
- B. Concrete Work
- C. Landscaping
- D. Electrical
- E. Pumps and Piping

1.1.4 TASKS

The work tasks are summarized briefly as follows:

- A. Remove the fuel from the existing tank for either disposal or relocate it to a day tank as directed by the Engineer.
- B. Provide temporary hot water service to the building by either a temporary 75 gallon electric water heater or fuel oil day tank system. The temporary water heater will be used while the fuel tank is being replaced. Alternative is to provide a temporary day tank system to supply fuel to the boiler. The temporary piping connections to the existing system are also included with the work.

DIVISION 22 PLUMBING AND TANKS
SECTION 22400 FUEL TANK REPLACEMENT
PAGE 2

- C. Provide permits from the Office of the Fire Marshall, Monroe CT for the existing tank removal and for installation of the new tank. The Contractor shall include the fee for the permit in the bid.
- D. Remove, clean and properly dispose of the existing 8,000 gallon fiberglass tank.
- E. Expose the existing deadman for inspection by the Engineer who will determine if the existing deadman is structurally satisfactory for the new tank loading. If a new deadman is required, it shall be furnished and installed by the contractor at the Alternate Price for this work listed on the bid form.
- F. Furnish and install a new 8,000 gallon capacity double wall fiberglass underground storage tank complete with spill containment and fiberglass water tight tank top piping sump. New double walled supply and return flexible supply piping shall be run from the tank to the building. New 2-inch conduits shall be installed below the building along the track of existing piping to be used as conduit for the supply line piping. The existing piping from the exterior building wall to the boiler room is to be used as a conduit for the new return piping below the building. The connection of the tank gauge, alarm system and monitoring systems shall be included.
- G. Remove and replace the existing concrete slab located above the fuel storage tank.
- H. Regrade and seed the disturbed landscaped areas of the site.

1.1.5 CONTRACTOR USE OF PREMISES

- A. The Contractor and Contractor's personnel shall cooperate fully with the Owner's representative/consultant to facilitate efficient use of buildings and areas within building. The Contractor shall perform the work in accordance with the Owner's specifications, drawings, phasing plan and in compliance with any/all applicable Federal, State and Local regulations and requirements.
- B. The Contractor shall use the existing facilities in the building strictly within the limits indicated in contract documents.

1.2 APPLICABLE CODES AND REGULATIONS

1.2.1 GENERAL APPLICABILITY OF CODES, REGULATIONS, AND STANDARDS

- A. All work under this contract shall be done in strict accordance with all applicable Federal, State, and local regulations. All applicable codes, regulations and standards are adopted into this specification and will have the same force and effect as this specification.
- B. The most recent edition of any relevant regulation, standard, document or code shall be in effect. Where conflict among the requirements or with these specifications exists, the most stringent requirement(s) shall be utilized.
- C. The Contractor shall be certified for the tank and piping installation by the tank and piping manufacturers in accordance with subdivision 22a-449(d) – 102(a)(6) of the Underground Storage Tank Regulations.

1.2.2 PERMITS/LICENSES

- A. The contractor shall apply for and have all required permits and licenses to perform the work as required by Federal, State, and Local regulations. This shall include obtaining the proper permit from the Office of the Fire Marshal, Monroe CT. The cost for any permit shall be included with the Contractor's bid.

1.2.3 POSTING AND FILING OF REGULATIONS

- A. Maintain two (2) copies of applicable federal, state, and local regulations. Post one copy of each at the regulated area where workers will have daily access to the regulations and keep another copy in the Contractor's office.

1.3 OWNER'S RESPONSIBILITIES

Prior to commencement of work:

- A. Notify occupants adjacent to the work areas of the project dates and requirements for relocation, if needed. Arrangements must be made prior to starting work for relocation of equipment.

1.4 PRE-CONSTRUCTION MEETING

Prior to commencing the work, the Contractor shall meet with the Owner's representative to present and review, as appropriate, the project schedule, safety requirements submittals and access to the work area.

PART 2 - PRODUCTS, MATERIALS AND EQUIPMENT

2.1 MATERIALS AND EQUIPMENT

2.1.1 GENERAL REQUIREMENTS

Prior to the start of work, the contractor shall provide and maintain a sufficient quantity of materials and equipment to assure continuous and efficient work throughout the duration of the project. Work shall not start unless the following items have been delivered to the site and verification has been submitted to the Owner's representative.

- A. All materials shall be delivered in their original package, container or bundle bearing the name of the manufacturer and the brand name (where applicable).
- B. Store all materials subject to damage off the ground, away from wet or damp surfaces and under cover sufficient enough to prevent damage or contamination. Flammable and combustible materials cannot be stored inside buildings.
- C. The Contractor shall not block or hinder use of buildings by staff, and visitors to the Owner's building by placing materials/equipment in any unauthorized location.

DIVISION 22 PLUMBING AND TANKS
SECTION 22400 FUEL TANK REPLACEMENT
PAGE 4

- D. The Owner's representative shall inspect for damaged, deteriorating or previously used materials. Such materials shall not be used and shall be removed from the worksite and disposed of properly.
- E. Adequate and appropriate PPE for the project and number of personnel/shifts shall be provided. All personal protective equipment issued must be based on a written hazard assessment in accordance with OSHA requirements.

2.2 SUBMITTALS

2.2.1 PRE-CONSTRUCTION MEETING SUBMITTALS

Submit to the Owner a minimum of 14 days prior to the pre-start meeting the following for review and approval. Meeting this requirement is a prerequisite for the pre-construction meeting for this project:

- A. Submit a detailed work schedule for the entire project reflecting contract documents and the phasing/schedule requirements from the CPM chart.
- B. Submit a staff organization chart showing all personnel who will be working on the project and their capacity/function.

2.3. FUEL TANK

The new underground fuel tank shall be a double wall fiberglass reinforced plastic (FRP) 8,000 gallon capacity for fuel oil to be used for hot water boiler as manufactured XERXES or equal.

The fuel tank shall include the following features:

1. The primary and secondary walls shall be manufactured using 100% premium resin and glass fiber.
2. The tank shall be provided with at least 4 anchor straps with galvanized turnbuckles.
3. Concrete anchoring system to connect to the anchor straps.
4. Five gallon spill containment for the fill connection.
5. 36-inch diameter sump.

2.4 PIPING

New fuel and return line piping shall be double-walled flexible piping (OPW, APT, or like) suitable to the project application and compliant with local, state and federal requirements. The supply piping shall be of nominal 1-inch inside diameter from the tank to the building interior. The return line piping shall be ¾-inch ID to pass through the existing 1.5-inch fuel lines (to be used as conduits). New 2-inch conduits must be installed below the building for the supply lines. All fittings and connections to the tank and pumps to be included herewith.

PART 3 - EXECUTION

3.1 FUEL TANK

3.1.1 REMOVAL OF EXISTING TANK

Refer to Division 2 Section 02050 Demolition and Alterations. The existing tank shall not be removed until the new tank is on site and ready for installation.

3.1.2 TEMPORARY WATER HEATER

Prior to the removal of the fuel from the existing 8,000 gallon tank, a temporary 75 gallon water heater shall be located as directed by the Engineer. The temporary water heater shall be electric and be connected to the existing hot water system to provide hot water to the washrooms while the boiler is out of service. Upon completion of the installation of the new fuel tank, the temporary water heater shall be removed and the hot water piping reconnected to the boiler. Alternately, the Contractor may provide a day tank connected to the existing boilers for fuel supply. If used, the day tank and all temporary connections shall be removed prior to job completion.

3.1.3 NEW FUEL TANK AND PIPING

The Contractor shall provide and install the new fuel tank at the same location as the existing tank. All necessary piping and electrical connections shall be performed by the Contractor for proper installation and operation of the new fuel tank. Prior to the installation of the new tank, the existing deadman shall be exposed for inspection. The inspection shall be performed by the Engineer to determine if the existing deadman has the structural capacity for the anchoring the new tank. If it is determined that the deadman must be replaced, the Contractor shall remove and properly dispose of the existing deadman then furnish and install a new deadman sufficient to anchor the new tank as per the manufacturing recommendations. The cost of the replacement deadman shall be at the Alternate Price shown on the bid form.

The tank and piping shall be properly installed in accordance with a code of practice developed by a nationally recognized association or independent testing laboratory and in accordance with the manufactures' instructions, NFPA 30 requirements and CT Regulations Sections 22a-449(d)-102 and 22a-449(d)103.

3.2.3 TESTING

The Contractor shall test the completed tank system including the alarm and leak monitoring systems in accordance with Federal and State standards and in accordance with the manufacturer's Installation Manual and Operating Guidelines in effect at the time of installation.

3.3 SITE RESTORATION

Site restoration shall be in accordance with Section 02210 Earth Excavation, Backfill Grading, Paving and Landscaping.

3.4 WORK HOURS

All work shall be done during administrative hours (8:00 AM to 5:00 PM) Monday - Friday excluding Federal Holidays. Any change in the work schedule must be approved by the Owner.

3.5 WARRANTY

All material and workmanship shall be warranted against defects in material and labor for 1 year after acceptance of the project by the Owner. The tank and apparatus shall have the manufacturer's standard warranty for materials and workmanship. All manufacturers' warranties shall be provided to the Owner at job completion.

END OF SECTION

22450 PUMPS AND PIPING

Part 1 – GENERAL

1.01 SUMMARY OF WORK

A. TASKS.

1. The two existing fuel oil pumps and fire valves that supply fuel oil to the existing boilers shall be removed and replaced.
2. The existing fuel oil supply and return piping between the pumps and new tank shall be replaced with new 1-inch and ¾- inch diameter flexible supply double-walled hose suitable for its intended use.
3. Shop drawings of the pumps shall be submitted to the Engineer for approval.

B. CODES

All material and installation shall be in accordance with the latest edition of the applicable federal, state and local codes. All piping shall be in accordance with a code of practice developed by a nationally recognized association or independent testing laboratory.

PART 2 – PRODUCTS

2.01 FUEL PUMPS

The two existing fuel pumps shall be replaced with pumps to supply a maximum of 20 gallons per hour of fuel oil to the boilers as manufactured by Sentec pumps or equal. The pumps shall be designed to provide the existing boilers the rated fuel supply from the new tank through the new supply and return piping. The pumps shall be approximately 1/2 HP, 115V, 60hz. The fuel inlet filter shall be UL listed for a flow rating for #2 fuel oil of class T, 23 GPH.

2.02 FUEL SUPPLY AND RETURN PIPING

The fuel oil supply piping shall be 1-inch and the fuel oil return piping shall be ¾-inch diameter (I.D.) double-walled flexible hose suitable for its intended use and shall be seamless between the fuel storage tank and the boiler room. No joints shall be allowed for this section of pipe.

Within the Boiler Room the fuel supply and return piping shall be ASTM A-53 Schedule 40, black steel. The fittings shall be malleable iron, 150 psi rating in accordance with ANSI B16.3. Connections between the double-walled flex hose and black piping shall be appropriate for the intended use. 1-inch bronze or brass ball valves shall be placed on either side of each pump.

PART 3 – EXECUTION

3.01 FUEL PUMPS

The two new fuel pumps shall be placed in the same location as the two existing fuel pumps. The power wiring and controls shall be connected to the existing wiring and controls. Fire valves shall be placed in same location as existing between the fuel pumps and supply and return lines.

3.02 FUEL SUPPLY AND RETURN PIPING

The new ¾-inch diameter flexible return hose beneath the building shall be placed within the existing 1-1/2-inch diameter supply and return piping (as conduit) between the boiler room and exterior of the building. The new 1-inch diameter flexible supply hose shall be placed in new two-inch diameter conduit pushed beneath the slab to access the boiler. The existing piping from the fuel pumps to the boilers shall be connected to the new fuel pumps, with new shut off ball valves.

As a contingency, in the event the existing fuel lines cannot reasonably be used as conduit, install new 2-inch rigid conduits under the building to the boiler room.

END OF SECTION

DIVISION 26 ELECTRICAL WORK

26009 BASIC ELECTRICAL MATERIALS AND METHODS

PART 1 - GENERAL

1.01 CODES AND STANDARDS

- A. All electrical work to be performed and all materials to be furnished shall be in accordance with the rules and regulations of the National Fire Protection Association, National Electric Code, the State and Local Codes, the Contract Specifications, and to the satisfaction of the Engineer.

1.02 CONNECTIONS AND IDENTIFICATION OF CIRCUITS

- A. Included in this Contract shall be all necessary approved terminal and terminating devices required for a complete and working installation, satisfactory to the Engineer. Where conductors are to be terminated in existing equipment, the Electrical Contractor shall obtain all required termination information and complete all terminations. All wires and cables shall be banded with an identifying number at each end termination and at each splice or pull point in junction boxes and pull boxes. The identifying number of each wire shall be determined at the point of circuit origination, and shall continue unchanged to the point of circuit termination.

1.03 MATERIALS

- A. No materials of any kind shall be used that have not been approved by the Underwriter's Laboratories, Inc., where UL provides such service, and each piece of equipment shall have marked thereon, where it can readily be observed, the name or trademark of the manufacturer.

PART 2 - PRODUCTS

2.01 ALUMINUM RIGID CONDUIT

- A. Aluminum conduit shall be rigid, manufactured of 6063 alloy in temper designation T-1. Fittings shall be of the same alloy. Conduit shall conform to Federal Specifications WW-C-0054-DC and ANSI C-80.5.
- B. Conduit shall be lined with a silicone compound to reduce friction and drag.

2.02 OUTLET BOXES AND FITTINGS

- A. Outlet boxes and fittings shall be of proper dimensions for each application, complete with watertight gaskets and covers secured with stainless steel screws.
- B. Conduit fittings, such as elbows, tees, couplings, caps, bushings, nipples, and locknuts shall be threaded to provide a watertight connection.
- C. Joints in conduit and between conduit and fittings shall be watertight and ends shall be reamed to prevent damage to conductor insulation.

DIVISION 26 ELECTRICAL
SECTION 26009 BASIC ELECTRICAL MATERIALS AND METHODS
PAGE 2

- D. A non-corrosive, conductive thread lubricant, such as "STL" thread lubricant as manufactured by Crouse-Hinds shall be thoroughly applied on all threaded joints.
- E. Cast metal outlet boxes shall be Crouse-Hinds Company, Square D Company, or equal, and shall be coated inside and outside with corrosion-resisting epoxy or equal finish.
- F. All junction boxes, fittings or other terminals without tapped conduit entrances shall be provided with double nuts and standard bushings.
- G. In hazardous locations all outlet boxes and fittings shall be NEMA Type 7. Seal fittings shall be supplied in accordance with the NEC.

2.03 TERMINAL, JUNCTION AND PULL BOXES

- A. Terminal, junction, and pull boxes shall be installed as required.
- B. In general, boxes shall be made of the same material used in the conduit run. Boxes made of cast iron or cast aluminum shall be used, unless otherwise specified. Where the weight of cast boxes exceed 50 pounds, boxes may be made of 1/8 inch sheet aluminum or of (minimum) No. 12 gauge stainless steel, with sides flanged around the cover opening or with approved supporting frame for cover. Mounting lugs and threaded entry bosses shall be provided as required. Seams in sheet metal boxes shall be continuously welded and ground smooth.
- C. Pull and junction boxes shall have covers held in place by stainless steel screws. Terminal boxes shall have minimum 12 gauge steel panels for mounting terminal blocks. Hinged covers shall fit tightly against a gasket, secured by lug bolts and wing nuts. All boxes shall be provided with rabbeted gaskets or flange gaskets, securely held in place.
- D. Cast metal terminal, junction, and pull boxes shall be Crouse-Hinds Company, Square D Company, or equal, and coated inside and outside with corrosion-resisting epoxy or equal finish.
- E. In hazardous locations, all terminal junction boxes and pull boxes and fittings shall be NEMA Type 7.

2.04 FLEXIBLE CONDUIT

- A. Flexible conduit shall be liquid-tight electrical conduit having a core of flexible, steel tubing covered with a liquid-tight polyvinyl jacket. Tubing shall be fitted with grounding bushings and standard rigid conduit fittings for connection and attachment. Conduit shall be Electric-Flex Company, Type HTA, Anaconda, or equal.
- B. In hazardous locations flexible metallic conduits and fittings shall be NEMA Type 7.

DIVISION 26 ELECTRICAL
SECTION 26009 BASIC ELECTRICAL MATERIALS AND METHODS
PAGE 3

2.05 GROUNDING

- A. The previously described and specified electrical equipment and neutral of wiring system shall be permanently and securely grounded in accordance with the latest requirement of National Electrical Code.
- B. Insulated copper conductors for equipment grounding shall be routed with all power conductors and shall be sized in accordance with the National Electric Code Table 250-95. These conductors are required for all equipment connected under this Contract; including fixtures, receptacles, and electrical equipment furnished by others, even if not shown on the Contract Drawings.
- C. Test the ground resistance of the grounding system and provide copies of all grounding system tests for review by the Engineer and for inclusion in the Operation and Maintenance Manuals.

2.06 WIRES AND CABLE (600 VOLTS)

- A. A complete system of insulated copper conductors shall be installed in the conduit system, except where otherwise designated. Unless otherwise specified, conductors shall be Type XHHW 600V cross-linked polyethylene type insulation. All conductors shall conform to the requirements of the National Electric Code of IPCEA.
- B. Except where otherwise noted, all power conductors shall be single conductor #12 AWG minimum, and all control conductors shall be stranded single conductor #14 AWG minimum. Wire and cable shall be as manufactured by Okonite Company, Pirelli Cable Corp., or equal.
- C. Conductor Testing and Warranty
 - 1. All conductors shall be tested for continuity, in addition, all power conductors shall be meggered to indicate compliance with the manufacturer's guaranteed values. A summary of test results shall be submitted for record purposes.
 - 2. All conductors rated 600 V and below shall be furnished with a manufacturer's one year warranty which shall be submitted at the time of cable approval and commence on the date of testing.

PART 3 - EXECUTION

3.01 INSTALLATION OF CONDUITS, FITTINGS, AND BOXES

- A. All conduit fitting and boxes such as elbows, tees, couplings, caps, bushings, nipples, junction boxes, and lock nuts shall be threaded to provide a watertight connection. No box shall be drilled and tapped for more conduits than actually enter it and all box covers shall be accessible after installation.

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SECTION 26009 BASIC ELECTRICAL MATERIALS AND METHODS
PAGE 4

- B. All conduits shall be installed as required. The conduit system shall be installed complete with all accessories, fittings, and boxes, in an approved workmanlike manner to provide proper raceways for electrical conductors.
- C. All exposed conduits shall be run parallel to or at right angles to walls or beams, and plumb on the walls.
- D. As far as practicable, conduit shall be pitched slightly to drain to the outlet boxes, or otherwise installed to avoid trapping of condensate. Where necessary to secure drainage, a Crouse-Hinds Company Type ECD, Square D Company, or equal breather-drain fitting shall be installed in the boxes or trapped conduit at low points. Conduit shall not be run through columns or beams unless so specifically detailed on the Contract Drawings.
- E. Conduit system bends and offsets may be made in field using approved bending tools, but no deformed, split or crushed conduit will be permitted in the work. All bends in conduit over 1 inch in diameter shall be made with a pipe bending machine. No more than three quarter bends shall be made between any two pull boxes without permission of the Engineer.
- F. Conduits shall be installed throughout structures in a completed system and must be so run that electrical conductors can be withdrawn and replaced at any time.
- G. Where existing conduits are to be reused, they shall be cleaned using approved methods removing all obstructions or imperfections liable to injure the new conductor insulation.
- H. Conduits to be built into structure shall be properly protected and suitably supported to prevent strains at joints or injury by building operations, and shall be thoroughly protected at all times from the entrance of water or other foreign matter by being well plugged when work is interrupted. If left dead ended, they shall be furnished with iron caps or pipe plugs.
- I. The interior of all conduits, conduit fittings, pull and junction boxes shall be carefully and thoroughly cleaned before and after erection.
- J. Special care shall be taken to prevent conduits from becoming choked with cement or other debris.
- K. No conduit smaller than 3/4 inch shall be used.

3.02 CONDUIT CONNECTIONS TO EQUIPMENT

- A. The conduit system shall terminate at the terminal box or at the conduit connection point of electric motor and devices. Terminations of conduits at such locations shall permit direct wire connections to the motor and devices.
- B. Conduit connections shall be made with rigid conduit if the equipment is fixed and not subject to adjustment, mechanical movement, or vibration. Rigid conduit connections shall have union fittings, to permit removal of equipment without cutting or breaking the conduit.

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SECTION 26009 BASIC ELECTRICAL MATERIALS AND METHODS
PAGE 5

- C. Conduit connections shall be made with approved flexible metallic conduit if the equipment is subject to adjustment, mechanical movement, or vibration. Flexible conduit connections shall be watertight.

3.03 INSTALLATION OF CONDUCTORS

- A. All wires and cables pulled into conduits shall be carefully handled to avoid twists or kinks in the conductors, or damage to the sheaths and insulation. Wire and cable manufacturer's recommendations for allowable minimum bending radius and maximum pulling tension shall not be exceeded.
- B. All trapped conduit lines shall be swabbed to remove any debris or accumulated moisture before cables or wires are pulled in.
- C. No splices will be permitted between terminals, except at approved junction or terminal box points, as required by code for pull lengths. Cable and wire runs shall be looped through pull boxes without cutting and splicing, where possible.
- D. The neutral (current carrying ground) conductors be colored WHITE and that earth grounding conductors be GREEN. The hot lines shall be black, blue or red depending on voltage system.
- E. The color coding may be by the continuous external color of the insulation as applied at the factory during manufacture, or, by color coded sleeves at the discretion of the Engineer; but in no case will field applied colored tape be acceptable nor will colored sleeves be acceptable for grounding conductors or neutral conductors.

3.04 ACCEPTANCE TEST

- A. This test shall consist of a complete coordination and functional check under simulate operating conditions, followed by operational test under actual operating conditions. All tests that are a part of this acceptance test shall be conducted in the presence representative(s) of the Engineer. All costs of equipment, tools, instrument, labor, etc., to make these tests to the satisfaction of the Engineer, together with all necessary supervision by the Contractor and manufacturers' service engineers, shall be borne by the Contractor.
- B. Any defect in material, equipment, or workmanship furnished under this Contract, together with all inadequacies which may show up during the above tests, shall be promptly made good at the expense of the Contractor, and a new acceptance test shall be scheduled, subject to the same provisions as above described.

END OF SECTION

DIVISION 26 ELECTRICAL
SECTION 26010 BASIC ELECTRICAL REQUIREMENTS
PAGE 1

DIVISION 26 ELECTRICAL
SECTION 26010 BASIC ELECTRICAL REQUIREMENTS
PAGE 1

26010 BASIC ELECTRICAL REQUIREMENTS

PART 1 - GENERAL

1.01 SUMMARY OF WORK

- A. As a minimum the Electrical work shall include but not be limited to the following:
 - 1. Disconnect and remove the existing electrical conduit and wiring as required. The Contractor shall evaluate the existing electrical system including wiring and determine where replacement is required. All below grade wiring shall be replaced.
 - 2. Perform acceptance test and furnish documentation as hereinafter specified.

1.02 SUBMITTALS

- A. Submit catalog cuts and shop drawings for the electrical materials and equipment. Shop drawings shall include:
 - 1. Schematic Wiring Diagrams
 - 2. Terminal Identification Diagrams
 - 3. Point-to-Point Interconnection Diagrams
 - 4. Description of Operation
 - 5. Actual details of conduit installation
- B. Submit final As-Built Drawings and O&M Manuals.

1.03 FIELD ENGINEERING

- A. The Electrical Contractor shall determine the proper connection points for all power, control, and signal wiring, regardless of whether the connection points are in equipment furnished under this Contract, in equipment furnished by others, or in existing equipment.
- B. The Electrical Contractor shall perform all field surveys, wire tracing, and other work required to ascertain the proper connection points for all wiring.

DIVISION 26 ELECTRICAL
SECTION 26010 BASIC ELECTRICAL REQUIREMENTS
PAGE 2

1.04 INSUFFICIENT INSTRUCTION

- A. The Contractor shall furnish and install all materials and equipment which are obviously part of the complete electrical installation and without any additional charge to the School District.
- B. If, in the opinion of the Contractor, any work shown on the Drawings or called for under these Specifications is insufficiently specified or specified in such a manner as to make it impossible for him to produce first-class work which will meet the approval of the Engineer, he shall refer same to the Engineer before proceeding with the work and, if he fails to refer such instances to the Engineer, no excuse for poor workmanship will be entertained.

PART 2 - PRODUCTS Not Used

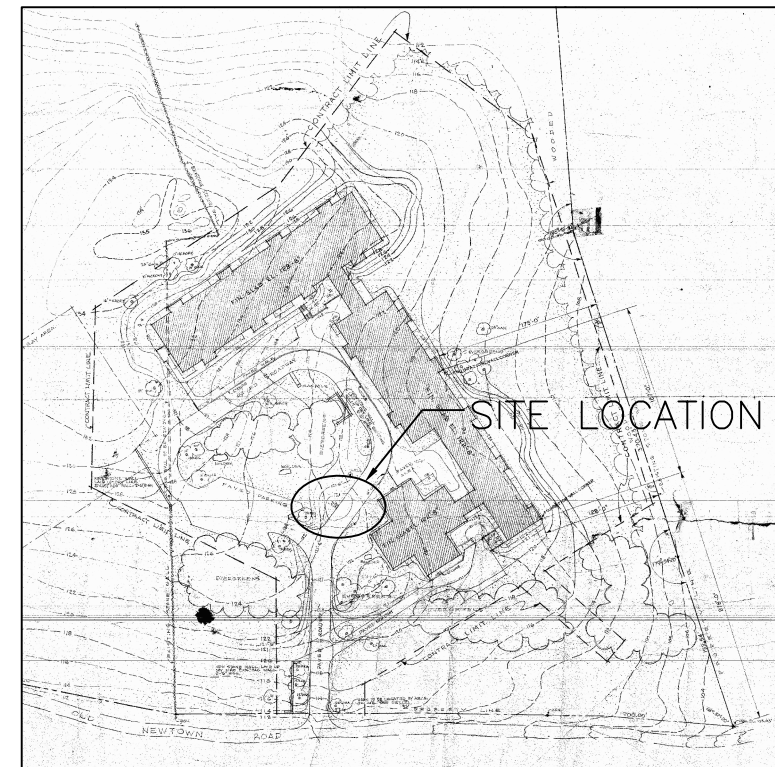
PART 3 - EXECUTION Not Used

END OF SECTION


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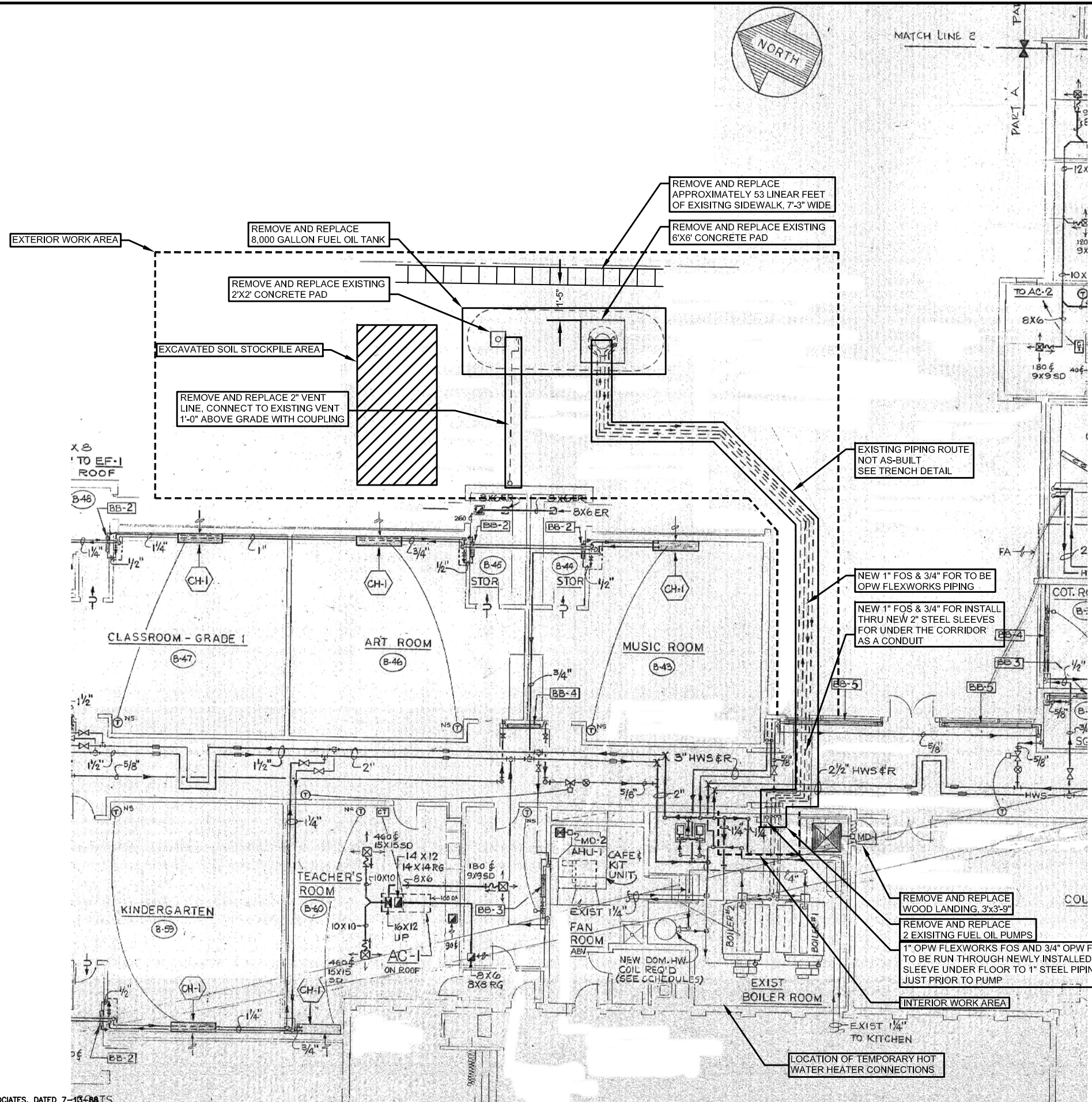


PROJECT LOCATION MAP



SITE MAP

NO.	ISSUE/DESCRIPTION	BY	DATE
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LOCATION MAP			
UST REMOVAL/REPLACEMENT			
<small>PREPARED BY:</small>  GZA GeoEnvironmental, Inc. Engineers and Scientists <small>www.gza.com</small>		<small>PREPARED FOR:</small> STEPNEY ELEMENTARY SCHOOL MONROE, CT	
<small>PROJ MGR:</small> DESIGNED BY: JE DATE: DMG	<small>REVIEWED BY:</small> JE <small>DRAWN BY:</small> DMG <small>PROJECT NO.:</small> 05.0045758.00	<small>CHECKED BY:</small> JE <small>SCALE:</small> NTS <small>REVISION NO.:</small>	<small>FIGURE</small> 1 <small>SHEET NO. 1 OF 3</small>



NOTES:
 NEW TANK/PIPING INSTALLATION INSTRUCTIONS ARE NOTED WITH **BOXED** TEXT ON EXISTING SITE PLAN.

NO.	ISSUE/DESCRIPTION	BY	DATE

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PLAN MAP

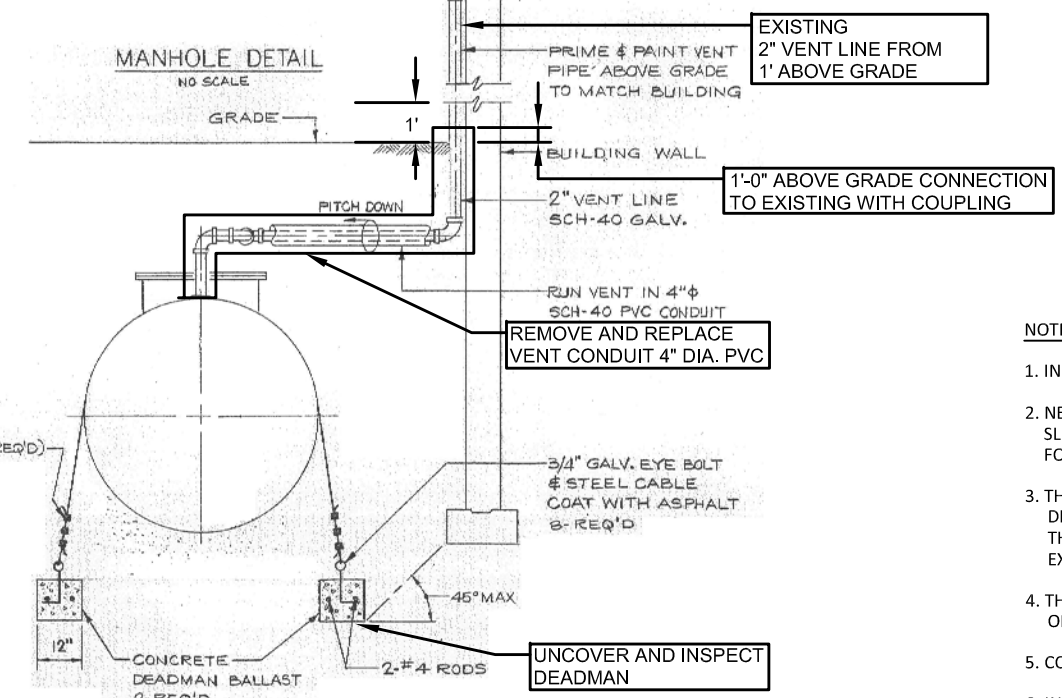
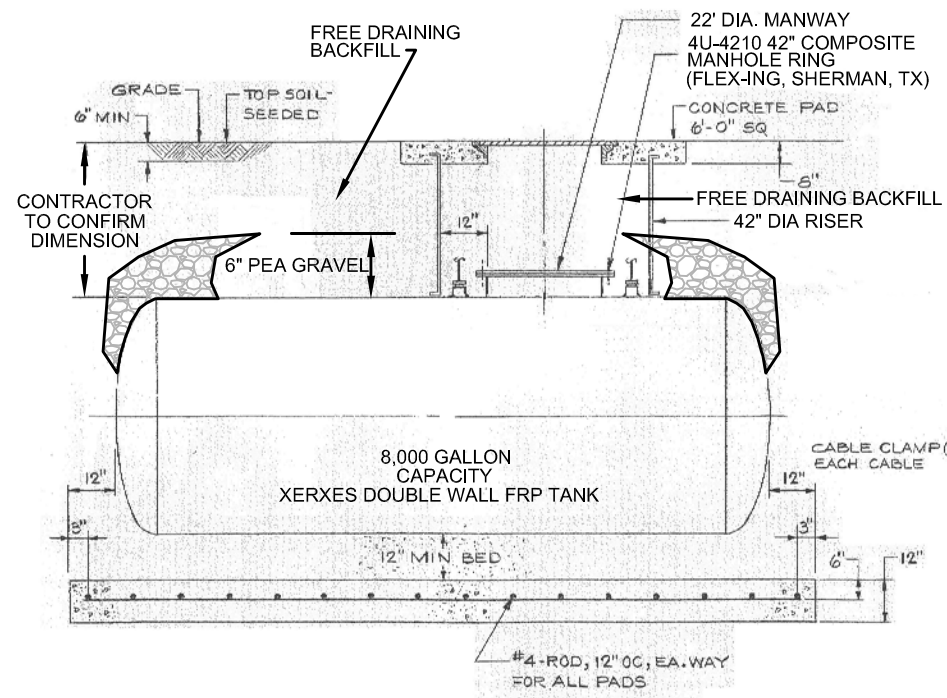
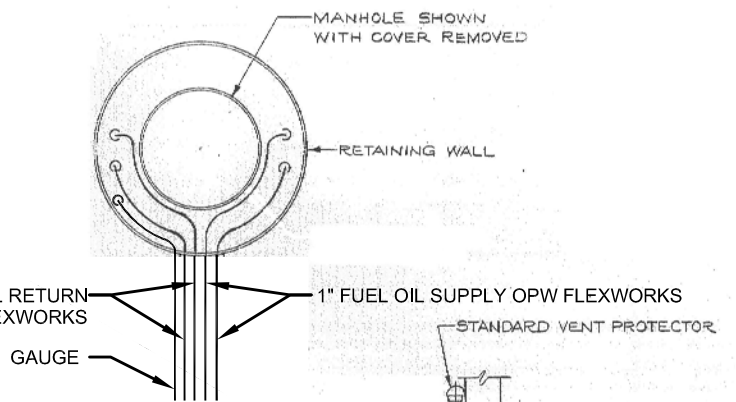
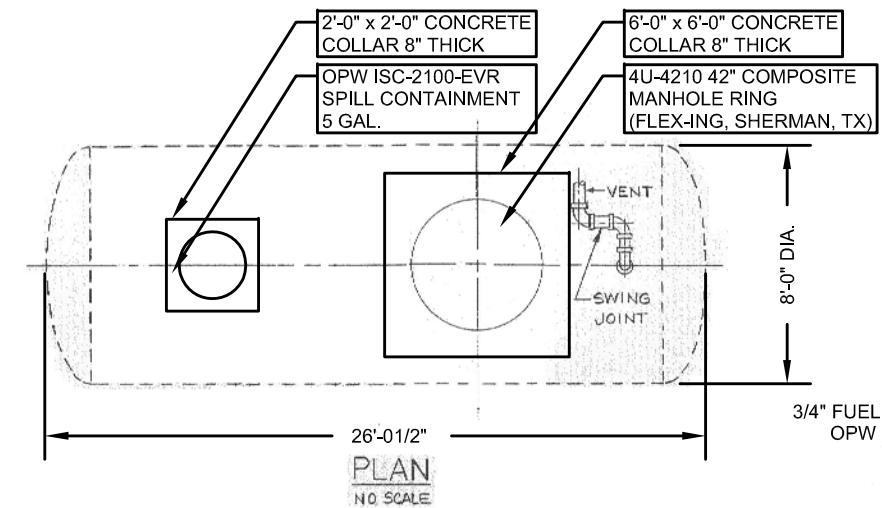
**UST
 REMOVAL/REPLACEMENT PLAN**

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: STEPNEY ELEMENTARY SCHOOL MONROE, CT		
PROJ MGR: [blank]	REVIEWED BY: JE	CHECKED BY: JE	FIGURE
DESIGNED BY: JE	DRAWN BY: DMD	SCALE: NTS	2
DATE: DMG	PROJECT NO. 05.0045758.00	REVISION NO.	SHEET NO. 2 OF 3

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ORIGINAL DRAWING BY ANTINOZZI ASSOCIATES, DATED 7-10-08

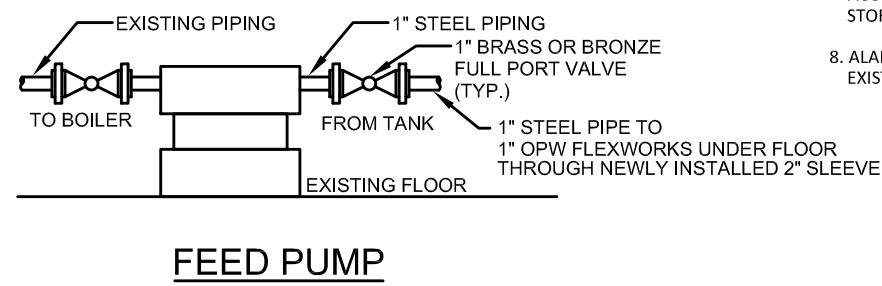
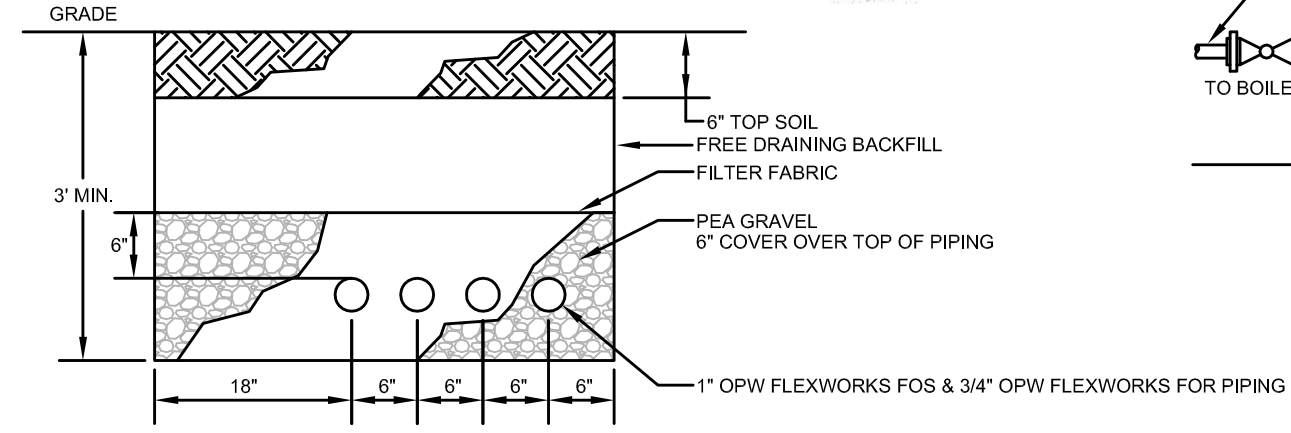
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NOTES

1. INSPECT EXISTING DEADMAN, REPLACE AS NECESSARY AT BID UNIT PRICE.
2. NEW 1" DIA. FUEL SUPPLY AND 3/4" RETURN ORP FLEXWORKS PIPING SLOPE TO BOILER ROOM. BENEATH BUILDING USE NEWLY INSTALLED 2" PIPES AS CONDUIT FOR ORP FLEXWORKS PIPING.
3. THE 8,000 GALLON REPLACEMENT FUEL TANK MUST BE THE SAME OUTSIDE DIMENSIONS AS THE EXISTING FUEL TANK DUE TO THE EXISTING ROCK BELOW GRADE. THE TANK LENGTH IS 8'-11/4" AND THE DIAMETER IS 8'- 11/4". NO ADDITIONAL ROCK EXCAVATION WILL BE ALLOWED.
4. THE NEW FUEL OIL TANK MUST BE AVAILABLE PRIOR TO THE START OF THE REMOVAL OF THE EXISTING TANK.
5. CONTRACTOR SHALL CONFIRM THE DEPTH BELOW GRADE OF THE EXISTING TANK.
6. INSTALLATION AND TESTING SHALL BE IN ACCORDANCE WITH THE TANK MANUFACTURER'S RECOMMENDATIONS.
7. THE TANK INSTALLER SHALL BE CERTIFIED BY THE TANK MANUFACTURER IN ACCORDANCE WITH SUBDIVISION 22A-449(D)-102(A)(6) OF THE UNDERGROUND STORAGE TANK REGULATIONS.
8. ALARM AND CONDUIT SHALL BE RELOCATED APPROXIMATELY 40' FROM THE EXISTING LOCATION.

FUEL STORAGE TANK DETAIL
NO SCALE



NO.	ISSUE/DESCRIPTION	BY	DATE
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DETAIL SHEET			
UST REMOVAL/REPLACEMENT SECTION AND DETAILS			
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DATE: DMG	DRAWN BY: DMD	SCALE: NTS	3
	PROJECT NO. 05.0045758.00	REVISION NO.	SHEET NO. 3 OF 3