



MAIL BIDS TO: **STAMFORD PUBLIC SCHOOLS**
PURCHASING DEPARTMENT
P.O. BOX 9310
STAMFORD, CT 06901

BID NUMBER: B-4034

REQUESTING DEPT: PURCHASING

TITLE OF BID: DOMESTIC HOT-WATER HEATING INSTALLATION
WITH OFCI DOMESTIC HOT WATER HEATERS
FOR STAMFORD PUBLIC SCHOOLS

BID OPENING: DATE: WEDNESDAY MAY 19, 2021
TIME: 2:30 P.M.
PLACE: PURCHASING, 3rd FLOOR
888 Washington Boulevard
Stamford, CT 06901

BID DEPOSIT:

| | |
|----|--|
| NO | |
|----|--|

PERFORMANCE BOND:

| | |
|----|--|
| NO | |
|----|--|

MAINTENANCE BOND:

| | |
|----|--|
| NO | |
|----|--|

PRE-BID/WALK THRU MANDATORY: DATE: WEDNESDAY MAY 5, 2021
TIME: 11:00 A.M.
PLACE: STILLMEADOW ELEMENTARY SCHOOL
800 STILLWATER ROAD
STAMFORD, CT 06902

ALL ATTENDANCE MUST WEAR A FACEMASK

4 COPIES OF RESPONSE REQUIRED

This Bid Specification was prepared to solicit sealed bids on behalf of the Stamford Public School Facilities Department from qualified responsible contractors for domestic hot-water heating systems at Northeast School, Springdale School, and Stillmeadow School. Contractor services shall include installation/replacement of hot-water heating systems and associated plumbing, electrical, and architectural items as more particularly described in the specifications appended hereto. The scope of work is delineated in the attached specifications provided for this project (Exhibit A). All terms and conditions, specifications and bid forms are attached hereto. The lowest responsible bidder may be required to attend a meeting with District officials prior to the awarding of the bid contract.

B-4034

DOMESTIC HOT-WATER HEATING INSTALLATION

Invitation to Bid/Overview of Services

- Stamford Public Schools (SPS) is soliciting sealed bids from qualified vendors to provide the installation of OFCI domestic hot water heaters with supporting infrastructure as shown on Exhibit “A.” Examples of these specific services are outlined in more detail in “Scope of Services” section C and in “Exhibit A.”
- Requests for proposals will be available at the purchasing department section of the Stamford Public Schools (SPS) website:
<https://www.stamfordpublicschools.org/district/finance-purchasing/pages/rfps-and-bids> starting Wednesday April 28, 2021.
- Contracts shall be awarded to the individual, consultants, or organization whose proposal best meets all criteria listed in the bid.
- **Proposals must be sealed and received by Wednesday May 19, 2021 at 2:30 P.M.**
- Upon successful selection of a vendor, an award notification will be posted online at:
<https://www.stamfordpublicschools.org/district/finance-purchasing/pages/rfp-contract-award-notification>
- **Insurance Requirements:** The selected proposer, upon the signing of the formal contract, will be required to deliver an insurance certificate in amounts, companies, and terms acceptable to the Risk Manager of the City of Stamford. Also, the District reserves the right to modify the insurance coverage amounts as well as policy types prior to the development of a contract. (*See section A.5 for further info*)
- **Rejection of Proposals**
Stamford Public Schools reserves the right to reject for any reason deemed to be in the District’s best interest any and/or all proposals submitted under this Bid.
- **Negotiated Changes**
In the event negotiated changes occur after the awarding of the contract, the same pricing policies called for in the original contract will remain in effect.
- **Selection Committee**
For requests for proposals for services anticipated to exceed \$100,000, a selection committee shall be formed to review all proposals. The selection committee shall, if possible, interview the most qualified proposers. Bids over \$100,000 will require SPS Board of Education approval.

SAMPLE SCORING SHEET

| Proposal Selection Criteria | Points |
|--|---------------|
| Understanding of Engagement | 15 |
| Qualifications and Experience of Proposer | 25 |
| Professional References | 10 |
| Proposed Fee Arrangements | 50 |
| <u>Total</u> (maximum 100 pts) | 100 |

A. GENERAL CONTRACT INFORMATION

1. Awarding the Contract (s)

The contract/s shall be awarded to the proposer whose proposal is deemed by the department head and/or selection committee to best provide the services desired, taking into account the requirements, terms and conditions contained in the request for proposals and the criteria for evaluating proposals. The SPS reserves the right to award this contract to one or multiple vendors provided that one vendor is financially beneficial to the district.

2. Contract Agreement

The successful bidder will be required to enter into an Agreement with Stamford Public Schools for the completion of the contract. If so, a sample copy of the Agreement is available at the following website:

https://www.stamfordpublicschools.org/sites/g/files/vyhlif3841/f/uploads/sample_agreement_for_boe_rfp_packages_1.pdf

The specifications of the proposal and the purchase order issued to the proposer shall serve as a contract where no formal written contract is required.

3. Terms of Agreement

The Agreement and pricing shall remain in effect for the period beginning on June 1st 2021 and ending on August 14th 2021, with option to renew for one (1) additional year, at the sole discretion of the SPS. Thereafter, the Agreement shall remain in effect until such time that either party gives sixty (60) business days prior written notice of its intent to either extend or terminate the Agreement.

4. Cancellation of the Contract

The Stamford Public Schools (SPS) reserves the right to cancel this contract, at any time, with sixty (60) days prior written notice to the consultant or organization, should any of the following conditions exist:

- Funds are not appropriated by the City of Stamford or the Stamford the Board of Education (SBOE) for the continuation of this contract. In the event that funds are not

available, any contract resulting from this Bid will become void and of no force or effect.

- The Stamford Public Schools (SPS), through changes in its requirements, method of operation, or program operation no longer has a need for the commodity or service.
- If the Contractor fails to fulfill its obligations under this contract properly and on time, or otherwise violates any provision of the contract, Stamford Public Schools may terminate the contract by written notice to the Contractor.
- As indicated in “sample contract on page 3” the SPS reserves the right to cancel for either cause or convenience.

5. Provision for Required Insurance

The Vendor shall maintain insurance, which complies with the insurance requirements contained in this Contract between the Stamford Public Schools, Stamford, Connecticut and the vendor. Such insurance required to be maintained by the vendor shall include:

1. General liability, which contains limits of liability of \$1,000,000/\$2,000,000 combined single limit per occurrence and aggregate for property damage and bodily injury. Such insurance shall contain operations liability, contractual liability, which covers any indemnities contained in this Contract, personal injury and advertising liability and completed operations and products liability.
2. If working with children, sexual abuse and molestation coverage, which may be included in the general liability policy or be a standalone policy, with a minimum limit of liability of \$1,000,000.
3. Workers’ compensation and employers liability, which covers the employees of the Vendor, if applicable. Employer’s liability insurance, which contains limits of liability of not less than \$100,000 each accident, \$100,000 disease policy limit and \$100,000 disease – each employee.
4. Professional liability, which covers the professional services of the Vendor.

The Stamford Public Schools, the City of Stamford and their employees, agents and officers shall be designated as additional insureds under the general liability policy. All insurance maintained by the Vendor shall be primary insurance, not excess or concurrent, with any insurance maintained by or on behalf of the Stamford Public Schools or City of Stamford. The Vendor agrees to hold the Stamford Public Schools, the City of Stamford, and their employees, agents, and officers, safe and harmless from liability during the performance of this contract, and provide a waiver of subrogation in favor of the Stamford Public Schools, the City of Stamford, and their employees, agents and officers. The Vendor shall provide the Stamford Public Schools with evidence of insurance, which complies with the insurance requirements hereunder.

6.1 Non-Discrimination

(a) 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 race, color, religious creed, age, marital status, national origin, ancestry, sex, sexual orientation, mental retardation or physical disability, including, but not limited to, blindness, unless it is shown by such contractor that such disability prevents performance of the work involved, in any manner prohibited by the laws of the United States or of the state of Connecticut. If the contract is for a public works project, the contractor agrees and warrants that it will make good faith efforts to employ minority business enterprises as subcontractors and suppliers of materials on such project. The contractor further agrees to take affirmative action to ensure that applicants with job-related qualifications are employed and that employees are treated when employed without regard to their race, color, religious creed, age, marital status, national origin, ancestry, sex, sexual orientation, mental retardation, or physical disability, including, but not limited to, blindness, unless it is shown by such contractor that such disability prevents performance of the work involved;

(b)The contractor agrees, in all solicitations or advertisements for employees placed by or on behalf of the contractor, to state that it is an "Affirmative Action-Equal Opportunity Employer" in accordance with regulations adopted by the Connecticut Commission on Human Rights and Opportunities ("CCHRO");

(c)The contractor agrees to provide each labor union or representative of workers with which such contractor has a collective bargaining agreement or other contract or understanding and each vendor with which such contractor has a contract or understanding, a copy of these provisions, advising the labor union or worker's representative of the contractor's commitments under these provisions and to post copies of the notice in conspicuous places available to employees and applicants for employment;

(d)The contractor agrees to comply with each provision of this section and Conn. Gen. Stat. Sections 4a-62, 32-9e, 46a-56 and 46a-68b to 46a-68k, inclusive, and with each regulation or relevant order issued by said CCHRO;

(e) The contractor agrees to provide the SPS with such information requested by the SPS, and permit access to pertinent books, records and accounts, concerning the employment practices and procedures of the contractor.

6.2 Prime Contractor Responsibility

Vendors submitting proposals to this Bid may utilize the services of subcontractors. If subcontractors are planned to be used, this should be clearly explained in the proposal. The prime Proposer will be responsible for the entire contract performance whether or not a subcontractor is to perform.

All corporate information in this Bid must be included for each proposed subcontractor. The Proposal must also include copies of any agreements to be executed between the prime Proposer and any subcontractors in the event of contract award. Under this Bid, the Stamford Public Schools retains the right to approve all subcontractors.

6.3 Subcontractors

The contractor shall include the provisions of subsection (6 and 6.1) in every subcontract or purchase order entered into in order to fulfill any obligation of a contract with the SPS and such provisions shall be binding on a subcontractor, vendor or manufacturer unless exempted by regulations or orders of the CCHRO. The contractor shall take such action with respect to any such subcontract or purchase order as the SPS may direct as a means of enforcing such provisions.

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

6.4 Ambiguity in the Bid Specification

Prior to submitting the proposal, the contractor is responsible to bring to the SPS' attention any ambiguity in this Bid. Failure to do so shall result in the contractor forfeiting any claim for adjustment based on such ambiguity as should have been noted by a prudent contractor.

In the event of any ambiguity between the SPS' Bid and the proposer's proposal, then whatever shall be more favorable to the Stamford Public Schools as determined in the sole discretion of the SPS shall prevail and take precedence.

6.5 Ownership Information

The Stamford Public Schools shall have unlimited rights to use, disclose, or duplicate, for any purpose whatsoever, all information developed, derived, documented or furnished by the contractor under any contract resulting from this Bid.

In the event of contract award, all data collected and other documentation procured as part of the contract will become the exclusive property of the Stamford Public Schools and may not be copied or removed by any employee of the contractor without written permission of the Stamford Public Schools.

6.6 Proprietary Information

The Stamford Public Schools will not disclose any portion of the proposals except to members of the proposal evaluation team prior to contract award. The Stamford Public Schools retains the right to disclose the name of the successful proposer, the amount of contract, and any other information in the proposal that is pertinent to the selection of the contractor.

6.7 Independent Project Cost Determination and Gratuities

By submission of an offer, the proposer certifies, that in connection with this proposal:

- The costs in this offer have been arrived at independently, without consultation, communication or agreement, for the purposes of restricting competition, as to any matter relating to such prices with any other proposer or competitor.
- The prices quoted in this offer will not change for a period of one hundred and twenty (120) days after the receipt date at the Stamford Public Schools of this offer.
- Unless otherwise required by law, the costs which have been quoted in this offer have not been knowingly disclosed by proposer and will not knowingly be disclosed by the proposer prior to award, directly or indirectly to any other proposer or to any competitor.
- No attempt has been made or will be made by the proposer to induce any other person or firm to submit or not to submit an offer for the purpose of restrictive competition.
- No elected official or appointed official or employee of the Stamford Public Schools or the City of Stamford shall benefit financially or materially from any contract awarded pursuant to this Bid.

6.8 Gifts

During the term of this contract, including any extensions, the Contractor shall refrain from making gifts of money, goods, real or personal property or services to any appointed or elected official or employee of the City of Stamford or the Stamford Board of Education (“BOE”) or any appointed or elected official or employee of their Boards, Commissions, Departments, Agencies or Authorities. All references to the Contractor shall include its officers, directors, employees, and owners of more than 5% equity in the contractor. Violation of this provision shall constitute a material breach of this Agreement, for which this Agreement may be summarily terminated.

6.9 Incurring Cost

The Stamford Public Schools will not be held responsible for any costs incurred by the proposer for work performed in preparation and production of a proposal or for any work performed prior to the issuance of a contract.

6.10 Student Data Privacy

To effect the transfer of data subject to FERPA, the Contractor agrees and acknowledges as follows:

A. The Contractor shall ensure compliance in all respects with the provisions of the Family Educational Rights and Privacy Act of 1974, 20 U.S.C. 1232g, (“FERPA”) including any amendments or other relevant provisions of federal law, as well as all requirements of Chapter 99 of Title 34 of the Code of Federal Regulations. Nothing in this Agreement may be construed to allow either party to maintain, use, disclose or share student information in a manner not allowed by federal or state law or regulation.

B. Student information, student records and student-generated content, as those terms are defined pursuant to Connecticut General Statutes §10-234aa (collectively “student data”), are not the property or under the control of the Contractor;

C. The Board shall have access to and may request the deletion of student data in the possession of the Contractor except when such data is (A) otherwise prohibited from deletion or required to be retained under state or federal law, or (B) stored as a copy as part of a disaster recovery storage system and that is (i) inaccessible to the public, and (ii) unable to be used in the normal course of business by the Contractor, provided the Board may request the deletion of any such student data if such copy has been used by the operator to repopulate accessible data following a disaster recovery; at any time by notifying Contractor, in writing, of such request and identifying the information to be deleted;

D. The Contractor shall not use student data for any purposes other than those authorized pursuant to this Agreement with the Board;

E. The procedures by which a student, parent or legal guardian of a student may review personally identifiable information contained in student data and correct erroneous information, if any, in such student record is set forth in Board Policy, with specific reference to Policy 5115 (as may be amended from time to time) and its associated Regulation(s), a copy of which may be found at <http://www.stamfordpublicschools.org/district/board-education/pages/policy-handbook>.

F. The Contractor shall take actions designed to ensure the security and confidentiality of student data;

G. The Contractor shall adhere to the following procedures to notify the Board in the event that there has been an unauthorized release, disclosure or acquisition of student data:

a. Upon the discovery of a breach of security that results in the unauthorized release, disclosure or acquisition of student information, excluding any directory information contained in such student information, the Contractor shall notify, without unreasonable delay, but not more than thirty days after such discovery, the Board in writing through the Superintendent of Schools of such breach of security. During such thirty-day period, the Contractor may (A) conduct an investigation to determine the nature and scope of such unauthorized release, disclosure or acquisition, and the identity of the students whose student information is involved in such unauthorized release, disclosure or acquisition, or (B) restore the reasonable integrity of the Contractor's data system.

b. Upon the discovery of a breach of security that results in the unauthorized release, disclosure or acquisition of directory information, student records or student-generated content, the Contractor shall notify, without unreasonable delay, but not more than sixty days after such discovery, the Board of such breach of security. During such sixty-day period, the Contractor may (A) conduct an investigation to determine the nature and scope of such unauthorized release, disclosure or acquisition, and the identity of the students whose directory information, student records or student-

generated content is involved in such unauthorized release, disclosure or acquisition, or (B) restore the reasonable integrity of the Contractor's data system.

H. Student data shall not be retained or available to the Contractor upon expiration of the Agreement between the Contractor and the Board, except a student, parent or legal guardian of a student may choose to independently establish or maintain an electronic account with the Contractor after the expiration of such Agreement for the purpose of storing student-generated content.

I. All student-generated content shall be the property of the student or the parent or legal guardian of the student.

J. The Contractor shall implement and maintain security procedures and practices designed to protect student information, student records and student-generated content from unauthorized access, destruction, use, modification or disclosure that, based on the sensitivity of the data and the risk from unauthorized access, (1) use technologies and methodologies that are consistent with the guidance issued pursuant to section 13402(h)(2) of Public Law 111-5, as amended from time to time, (2) maintain technical safeguards as it relates to the possession of student records in a manner consistent with the provisions of 45 CFR 164.312, as amended from time to time and (3) otherwise meet or exceed industry standards.

K. The Contractor shall not use (1) student data for any purposes other than those authorized pursuant to this Agreement, or (2) personally identifiable information contained in student data to engage in targeted advertising.

L. The parties agree that this Agreement controls over any inconsistent terms of conditions contained within any other agreement entered into by the parties concerning student data.

M. If a court of competent jurisdiction finds that any provision of this Agreement is invalid, illegal or unenforceable, in any respect, then such invalidity, illegality or unenforceability shall not affect or impair any other remaining provisions of this Agreement, which shall remain in full force and effect. Moreover, if a court of competent jurisdiction finds that any provision of this Agreement is excessively broad, then such provision shall be construed by limiting it so as to be enforceable to the extent compatible with applicable law.

N. If a court of competent jurisdiction finds that any provision of this Agreement is invalid, illegal or unenforceable, in any respect, then such invalidity, illegality or unenforceability shall not affect or impair any other remaining provisions of this Agreement, which shall remain in full force and effect. Moreover, if a court of competent jurisdiction finds that any provision of this Agreement is excessively broad, then such provision shall be construed by limiting it so as to be enforceable to the extent compatible with applicable law.

6.11 Code of Ethics

Vendor shall comply with the Stamford Municipal Code of Ethics as codified in Chapter 19 of the City of Stamford Code of Ordinances and shall be considered an “employee”, as

defined in that Chapter, strictly for the purpose of compliance thereto. Vendor is prohibited from using its status as a vendor to derive any interest(s) or benefit(s) from other individuals or organizations.

6.12 Off Contract Purchase

The District reserves the right to purchase items and/or products covered by this agreement from alternate sources, should, during the term of this agreement, the District obtain more favorable pricing from those alternate sources or determine that it is in its best interest to purchase an item from an alternate source. This Contract is not an exclusive Contract.

6.13 Information on Bidders' Background

In addition to the specific information required to be submitted in direct response to this procurement, the Stamford Public Schools reserves the right to request certain additional information from any/all bidders, such as Dunn & Bradstreet reports, certified financial statements, lists and details on equipment and other important and necessary information and documents that will serve the best interest of the City, in the opinion of Superintendent of Schools and/or of the Purchasing Agent, in determining the capabilities of a contractor.

6.14 Independent Contractor Status

It is the intent of this proposal that the successful bidder is an independent contractor, and not an employee or agent. Nothing in this proposal or the contract to be signed shall be interpreted or construed as creating or establishing the relationship of employer and employee between the Stamford Public Schools and the Agency, or any employee or agent of the Agency, or between the Agency and any agent or employee of the Board. Both parties acknowledge that the Agency will not be an employee for federal or state tax purposes.

B. BACKGROUND

SPS serves some 17,000 students in 21 schools, grades Pre K – 12. The district, which encompasses 2,850,000 square feet of space, contains 13 elementary schools. Of the existing 13 elementary schools, 11 include grades K-5, the new school is K-3 and one includes grades K-8; five middle schools with grades 6-8, and three high schools. Included in this mix are five magnet elementary schools, one magnet middle school, two large comprehensive high schools, a magnet technology and engineering high school, and two alternative high school programs.

C. SCOPE OF SERVICES

To install OFCI domestic hot-water heaters as shown on Exhibit “A” in accordance with the plans and specifications and to comply with all local laws and codes for AHJ. This is to include, but not be limited to: piping distribution, fittings, pipe-insulation, all supporting electrical wiring, required rigging and other work as required. Contractor to provide SPS

with a schedule showing the total time required for the complete installation of this work as shown on Exhibit “A” and referenced in this scope of work. Contractor is responsible for securing all required permits and inspections for a completed project. This project must be completed, with all required final inspections and invoicing not later than August 14, 2021.

D. PLACE OF WORK

Northeast Elementary School, 82 Scofieldtown Rd., Stamford, CT 06903

Stillmeadow Elementary School, 800 Stillwater Rd., Stamford, CT 06902

Springdale Elementary School, 1127 Hope St. Stamford, CT 06907

E. SUBMISSION OF QUESTIONS

Questions relating to this request for proposal must be submitted **in writing (E-MAIL ONLY)** to the following address **no later** than **Tuesday May 11, 2021**:

Stamford Public Schools
David E. Patnaude
Director of Facilities—Capital Projects
dpatnaude@stamfordct.gov

F. PROPOSAL SUBMISSION

Four (4) complete sets of the proposal along with one (1) **electronic copy (USB Drive)** are to be submitted in a sealed envelope and received by the **Purchasing Department, 3rd Floor, by Wednesday May 19, 2021 at 2:30 pm**, and listing the following information on the outside of the envelope: **B-4034 | Bidder’s name and address | Proposal Due date. No telephone, electronic, or facsimile proposals will be considered.** No proposals will be accepted after this time.

- Send your proposal to the attention of:

Stamford Public Schools
Attn: 3rd Floor, Purchasing | B-4034 Domestic Hot Water Heating
888 Washington Blvd. Installation
Stamford, CT 06901

Due Date: Bids must be received by 2:30 pm on Wednesday May 19, 2021.

The proposal should include:

1. Tax Exempt

The Stamford Public Schools is exempt from the payment of taxes imposed by the Federal Government and/or State of Connecticut. Such taxes must not be included in the bid price.

2. The “Official Response Form/Bid Form” attached must be completed.

3. The “Non-Collusion Affidavit” attached must be completed.

4. The “Contractor’s Statement” attached must be completed.

5. The “Contractor’s Verification” attached must be completed.

6. The “Notice To Bidders”

7. All material submitted in response to this bid will become public record and will be subject to inspection after Intent to Award notice is issued. Any material requested to be treated as proprietary or confidential must be clearly identified and easily separable from the rest of the proposal.

8. A proposal submitted in response to the bid shall constitute a binding offer. The autographic signature of the proposer shall indicate acknowledgement of this condition, or an officer legally authorized to execute contractual obligations. A submission in response to the bid acknowledges acceptance by the Proposer of all terms and conditions including compensation, as set forth herein. An Offeror shall identify clearly and thoroughly any variations between its proposal and the SPS’s bid. Failure to do so shall be deemed a waiver of any rights to subsequently modify the terms of performance, except as outlined in the bid.

Failure to comply with all submission requirements may result in reduction of 5-10 points off the “Matrix of Qualifications” score. *For instance, not submitting an electronic copy (USB Drive).

B-4034 | DOMESTIC HOT-WATER HEATING INSTALLATION

G. OFFICIAL RESPONSE FORM/BID FORM

Name of Consultant/Vendor _____

Name/Title of Primary contact person _____

Address of Vendor _____

Phone Number of Vendor _____

Contact Person e-mail for follow-up _____

Number of Years' providing similar work: _____ years

List of School/City based references for contracts of a similar nature, including contact names, school district and phone numbers (Contract size can be either # students served or annual dollar amount)

| | <u>Reference District</u> | <u>Contact Name</u> | <u>Phone Number</u> | <u>E-mail</u> | <u>Contract Size</u> |
|----|---------------------------|---------------------|---------------------|---------------|----------------------|
| a) | _____ | _____ | _____ | _____ | _____ |
| b) | _____ | _____ | _____ | _____ | _____ |
| c) | _____ | _____ | _____ | _____ | _____ |

| <u>PRICING:</u> | <u>Northeast School</u> | <u>Stillmeadow School</u> | <u>Springdale School</u> |
|------------------------|--------------------------------|----------------------------------|---------------------------------|
| | \$ _____ | \$ _____ | \$ _____ |

Additional Notes:

Piggybacking

Stamford Public Schools would like to make the same pricing structures available to other departments or schools within the district, and other towns or municipalities. Bidders shall indicate whether they shall extend pricing. Inclusion is not mandatory and will have no bearing on the contract awarded.

- a. Agree to extend to other City's Dept or Municipalities _____
- b. Do not agree to extend to other City's Dept or Municipalities _____

H. NON-COLLUSION AFFIDAVIT

The undersigned, having been duly sworn, affirms and says that to the best of his/her knowledge and belief:

1. The prices in this Proposal have been arrived at independently without collusion, consultation, communication, or agreement with any other Proposer or with any competitor for the purpose of restricting competition.
2. Unless otherwise required by law, the prices, which have been quoted in this Proposal, have not been knowingly disclosed by the Proposer and will not knowingly be disclosed by the Proposer prior to opening, directly or indirectly, to any other Proposer or to any competitor.
3. No attempt has been made or will be made by the Proposer to induce any other person, partnership or corporation to submit or not to submit a Proposal for the purpose of restricting competition.

Name of Proposer: _____

By: _____

Print Name: _____

Title: _____

STATE OF CONNECTICUT
Contractor Verification
(in accordance with Public Act 16-67)

Directions to Contractor: Connecticut law requires that any contractor applying or bidding for a contract (including individuals who are independent contractors) with a local or regional board of education, a governing council of a state or local charter school, or inter-district magnet school operator require any employee with the contractor who would be in a position involving direct student contact to supply the contractor with the information provided in this form. Information may be collected either through a written communication or telephonically.

In addition, pursuant to Connecticut General Statutes (C.G.S.) § 10-222c, the contractor is required to contact – either telephonically or through written communication – any current or former employer of an employee if such employer was a local or regional board of education, a governing council of a state or local charter school, or inter-district magnet school operator or if the employment caused the employee to have contact with children, to request any information concerning whether there was a finding of abuse or neglect or sexual misconduct against the employee. If the contractor receives any information indicating such a finding, or otherwise has knowledge of such a condition, the contractor must immediately forward such information to any local or regional board of education with which the contractor is under contract.

Directions to Employee of Contractor: Pursuant to Connecticut state law, employees of a contractor who would be in a position involving direct student contact must supply all of the information provided in Section 2 of this form.

Section 1 – To be completed by Contractor

| | |
|--------------------------------|--|
| Name | |
| Street address | |
| City, State, Zip Code | |
| Contact person | |
| Telephone number/email address | |

Section 2 – To be completed by Employee of Contractor

Part A. On a separate sheet of paper, please list the name, address and telephone number of each current or former employer, if such current or former employer was a local or regional board of education, a governing council of a state or local charter school, or inter-district magnet school operator, or if such employment otherwise caused you to have contact with children.

Part B. Please complete the questions below in their entirety.

Have you ever:

Y N
☐ ☐

Been the subject of an abuse or neglect or sexual misconduct investigation by any employer, state agency or municipal police department (answer “no” if the investigation resulted in a finding that all allegations were unsubstantiated)?

Y N
☐ ☐

Been disciplined or asked to resign from employment or resigned from or otherwise separated from any employment while an allegation of abuse or neglect was pending or under investigation by the Department of Children and Families (the “department”), or an

allegation of sexual misconduct was pending or under investigation or due to an allegation substantiated pursuant to section 17a-101g of abuse or neglect, or of sexual misconduct or a conviction for abuse or neglect or sexual misconduct?

Y N
☐ ☐

Had a professional or occupational license or certificate suspended or revoked or ever surrendered such a license or certificate while an allegation of abuse or neglect was pending or under investigation by the department or an investigation of sexual misconduct was pending or under investigation, or due to an allegation substantiated by the department of abuse or neglect or of sexual misconduct or a conviction for abuse or neglect or sexual misconduct?

Part C – Written Consent and Disclosure Authorization. I hereby authorize the entities I have listed in Section 2 of this form to release to the entity listed in Section 1 of this form the information required to be released by my previous employer pursuant to (C.G.S.) § 10-222c along with any related records. I hereby consent to and authorize disclosure by the State Department of Education of the information requested pursuant to C.G.S. § 10-222c, as amended by Public Act 16-67, and I hereby authorize the release by the State Department of Education of any related records. I further hereby release the above-named employer(s) and the State Department of Education from any and all liability of any kind that may arise from the disclosure or release of records requested pursuant to C.G.S. § 10-222c, as amended by Public Act 16-67.

Signature of Applicant

Date

NOTES:

The terms provided below are currently defined in state law as follows. Please note that statutes may be amended from time to time.

Sexual Misconduct means – “any verbal, nonverbal, written or electronic communication, or any other act directed toward or with a student that is designed to establish a sexual relationship with the student, including a sexual invitation, dating or soliciting a date, engaging in sexual dialog, making sexually suggestive comments, self-disclosure or physical exposure of a sexual or erotic nature and any other sexual, indecent or erotic contact with a student.” Connecticut General Statutes § 10-222c(k).

Abuse or neglect means – “abuse or neglect as described in Section 46b-120, and includes any violation of Sections 53a-70, 53a-70a, 53a-71, 53a-72a, 53a-72b or 53a-73a.” Connecticut General Statutes § 10-222c(k).

The Connecticut State Department of Education is an affirmative action/equal opportunity employer and does not discriminate on the basis of race, color, religion, sex, gender identity or expression, sexual orientation, marital status, national origin, ancestry, age, criminal record, political beliefs, genetic information, intellectual disability, past or present history of mental disability, learning disability, or physical disability, including, but not limited to, blindness or any other basis prohibited by Connecticut state and/or federal nondiscrimination laws.

CONTRACTOR'S STATEMENT

Pursuant to Section 103 .1 of the Stamford Code of Ordinances, I hereby provide the following:

If a joint venture, trustee, partnership, Limited Liability Company or partnership, the names and addresses of all joint venturers, beneficiaries, partners or members:

If a corporation, the names and addresses of all officers and the names and addresses of all parties owning over 10% of its common stock or over 10% of its preferred stock. If any of said stockholders is a holding corporation, the names and addresses of all persons owning a beneficial interest in over 10% of the common or preferred stock of said holding company.

The names and positions of all persons listed hereinabove who are elected or appointed officers or employees of the City of Stamford.

Name of

Bidder/Proposer: _____

Signature of Bidder/Proposer: _____

Title: _____

Company Name: _____

Address: _____

NOTICE TO BIDDERS

1. All bids will be opened promptly at the advertised time of opening. There can and will be no delays or postponements which are not publicly advertised. Any bid received after the advertised time of opening cannot be accepted.

2. **Obligation of bidders:**

At the time of opening bids, each bidder shall be presumed to have inspected the sites, and to have read and made himself thoroughly familiar with the plans and contract documents including all addenda. The failure or omission of any bidder to receive or examine any form, instrument or document shall in no way relieve any bidder from any obligation in respect to his bid.

Each bidder must fully inform himself of the construction and labor conditions relating to the work which is now or will be performed. Failure to do so will not relieve the successful bidder of his obligation to furnish all labor and materials necessary to carry out the provision of the contract documents and to complete the contemplated work. Inasmuch as possible, the contractor must, in carrying out his work, employ such methods or means as will not cause any interruptions or interference with the work of any other contractor.

3. **Time is of the essence:**

If the project is not completed by the date specified as the substantial completion date in the contract entered into by Stamford Public Schools and the Contractor, the Contractor shall pay all direct damages suffered by Stamford Public Schools and consequential and/or liquidated damages in the daily amount of 1/10 of 1% of the total contract value.

4. Stamford Public Schools is an Affirmative Action/Equal Opportunity Employer/purchaser. Small, Minority, Women and Disadvantaged Business Enterprises are encouraged to respond.

**SAMPLE
CORPORATE
RESOLUTION
NEXT PAGE**

(COMPANY LETTERHEAD WITH LOGO HERE)

CORPORATE RESOLUTION

DATE:

We, the undersigned, being all the Directors of _____, organized and

(Name of company)

existing under the laws of _____, and having its principal place of business at

(State)

(Company's Address)

hereby certify that the following individuals are representatives of the company who can execute

documents.

Date

Date

Date

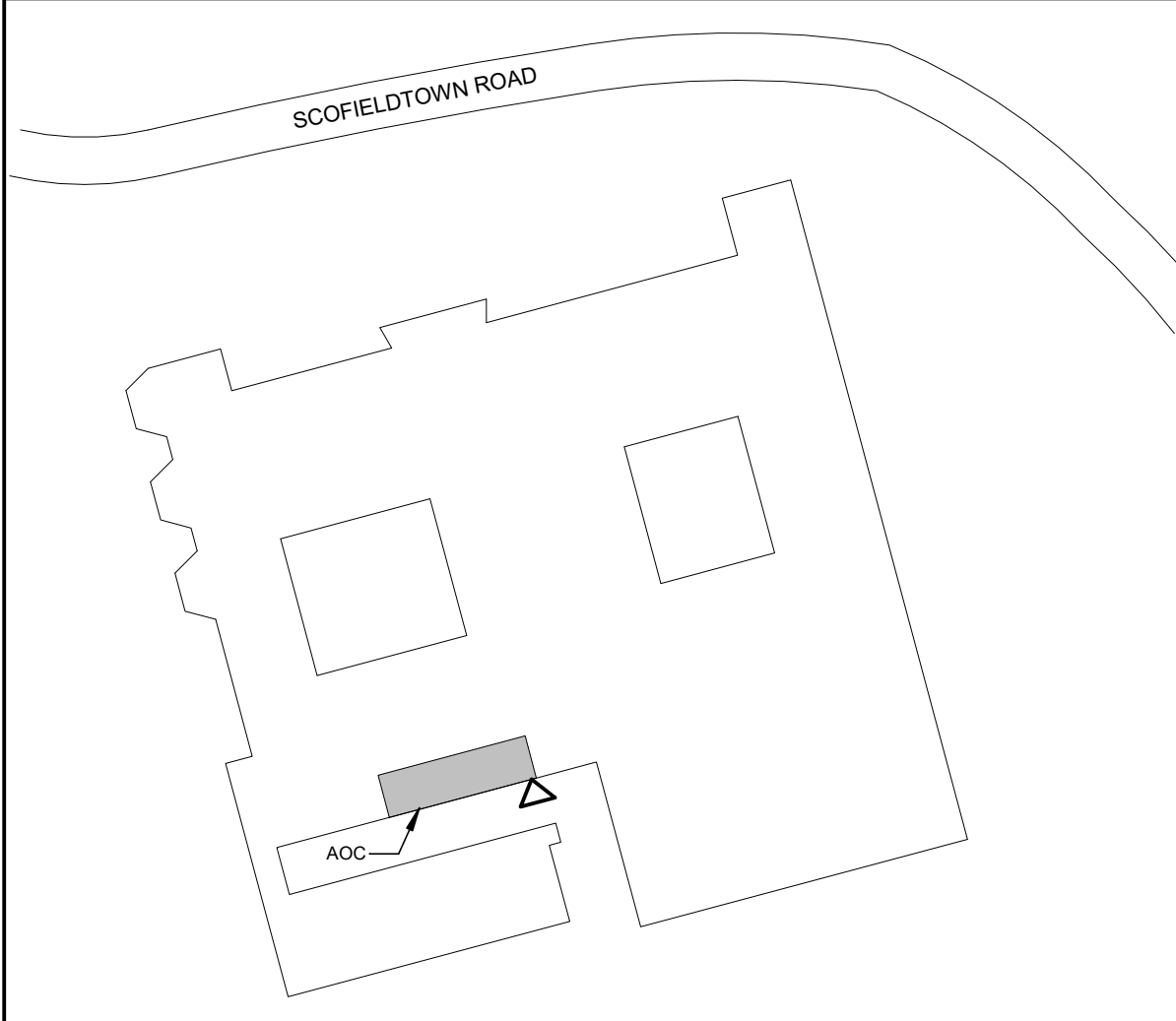
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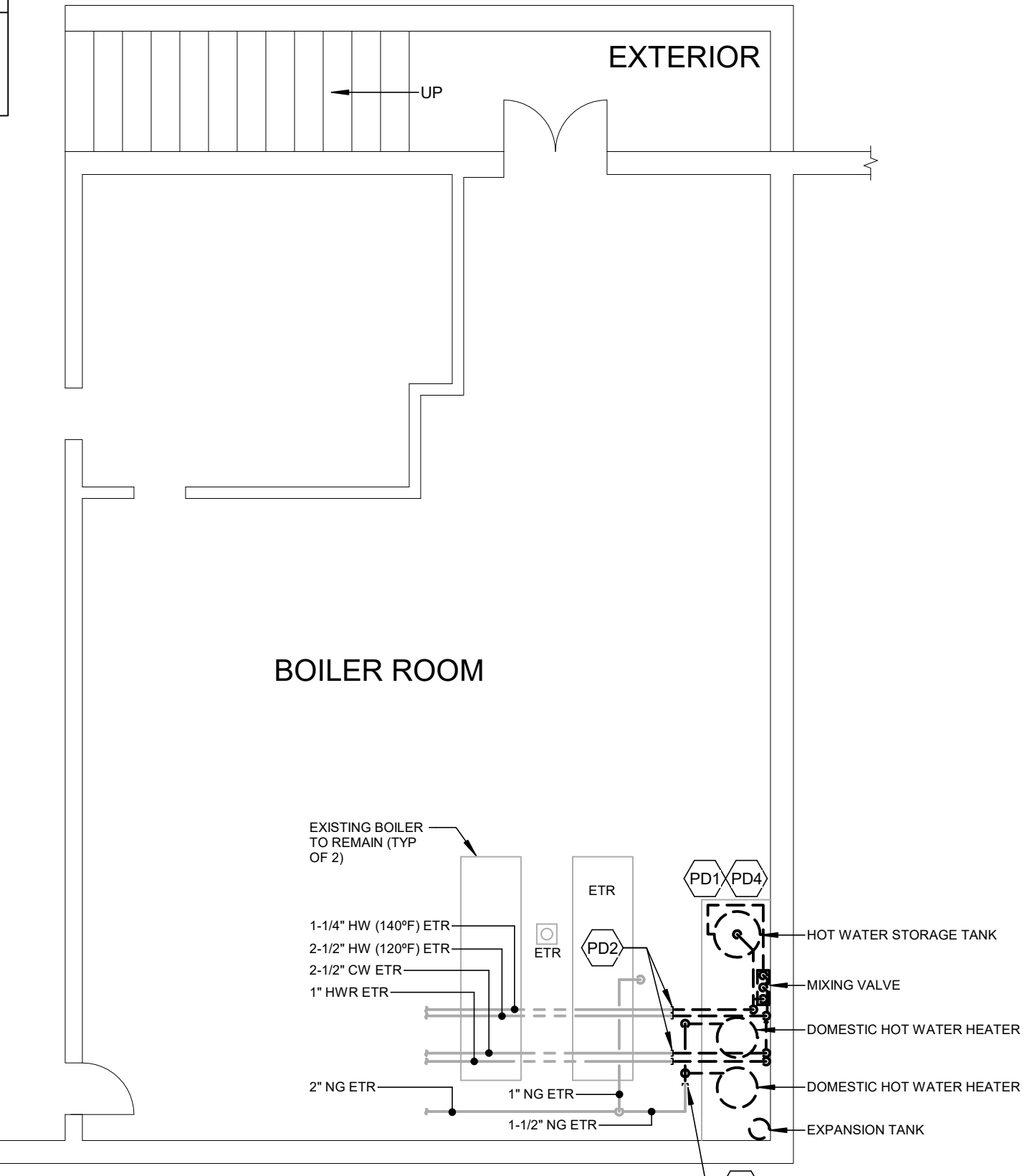
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EXHIBIT A

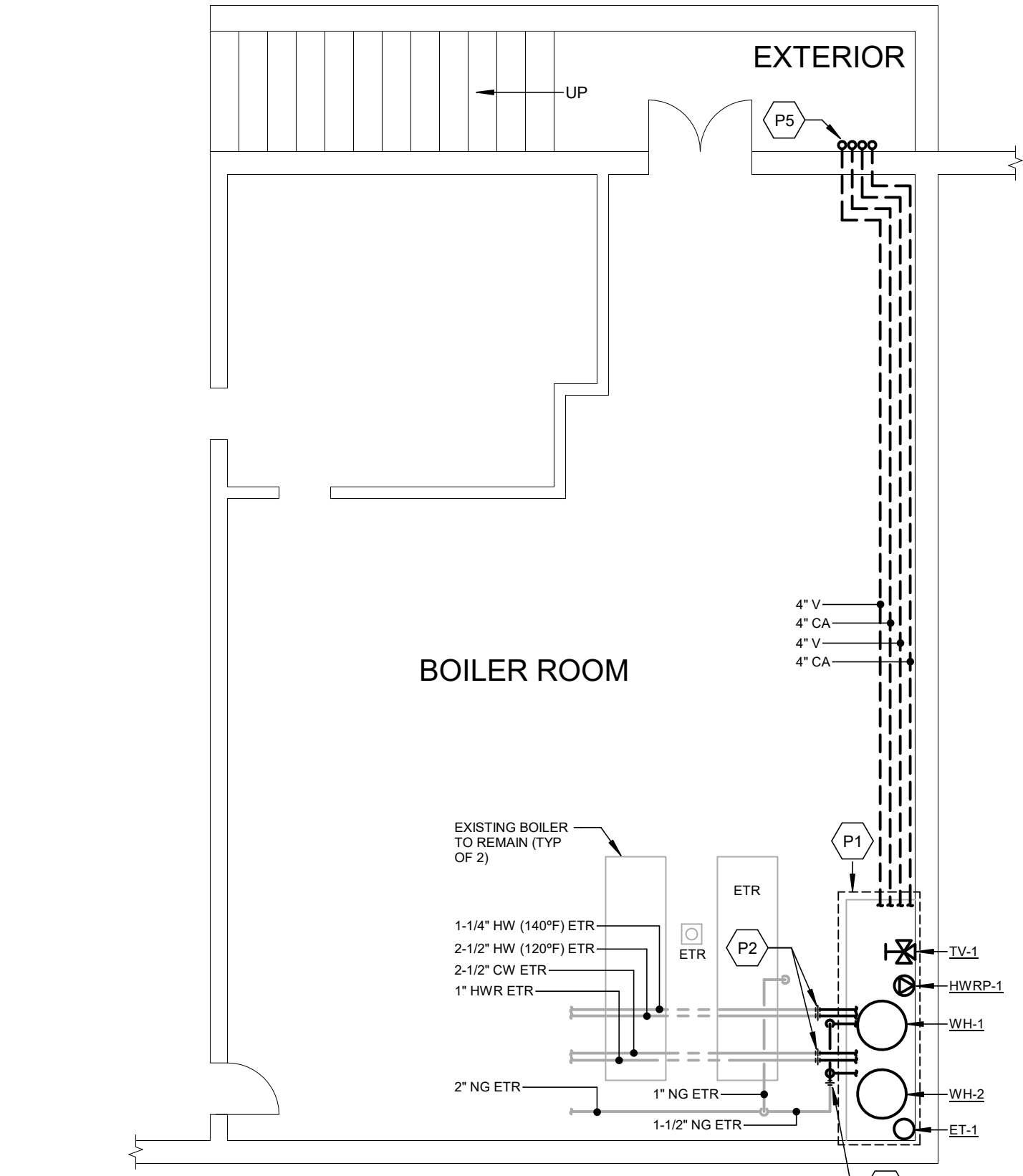
(Key plans – 6 pages)



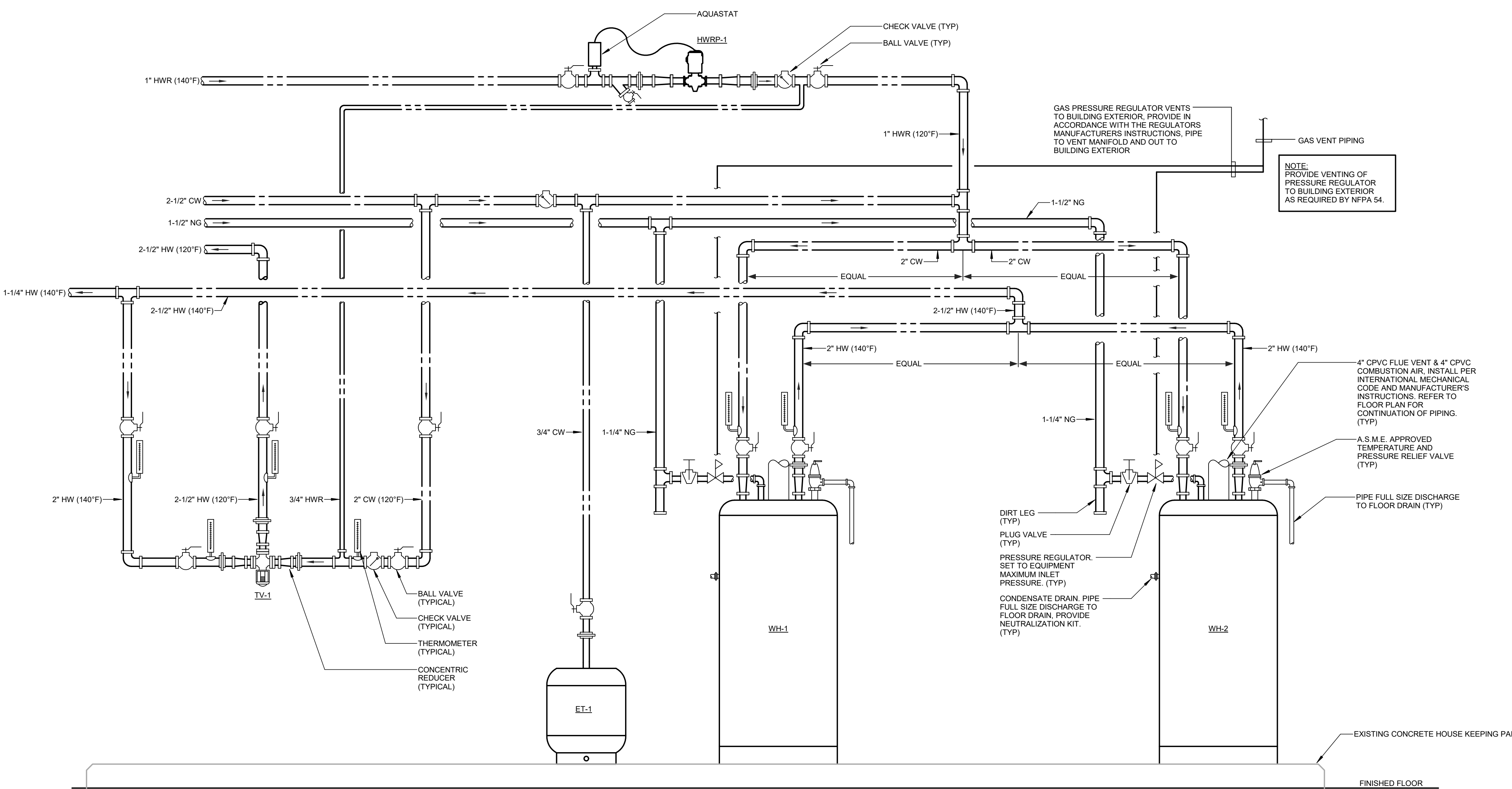
NORTHEAST ELEMENTARY SCHOOL - KEY PLAN



2 PLUMBING DEMOLITION PLAN - BOILER ROOM
1/8" = 1'-0"



3 PLUMBING PLAN - BOILER ROOM
1/8" = 1'-0"



1 WATER HEATER DETAIL
NTS

| PLUMBING DEMOLITION KEY NOTES | |
|-------------------------------|---|
| (PD1) | REMOVE (2) A.O. SMITH MODEL RHW-300 WATER HEATERS, A.O. SMITH MODEL #TJV-200W STORAGE TANK, EXPANSION TANK AND (3) HOT WATER CIRCULATION PUMPS. MAINTAIN EXISTING CONCRETE HOUSE KEEPING PAD. |
| (PD2) | REMOVE ALL CW PIPING, HW PIPING, HWR PIPING, VALVES AND ASSOCIATED HANGERS SERVING THE EXISTING WATER HEATERS AND STORAGE TANK BACK TO THESE LOCATIONS AND CAP FOR CONNECTION TO NEW WORK. |
| (PD3) | REMOVE NG PIPING SERVING WATER HEATERS BACK TO LOCATION SHOWN. CUT, VALVE AND CAP FOR CONNECTION TO NEW WORK. |
| (PD4) | REMOVE WATER HEATER EXHAUST VENT PIPING. |

| PLUMBING KEY NOTES | |
|--------------------|--|
| (P1) | PROVIDE AND INSTALL WH-1, WH-2, AND ET-1 ON EXISTING CONCRETE HOUSE KEEPING PAD. REFER TO DETAIL #1 FOR PIPING TO WATER HEATERS WITHIN DASHED REGION. PROVIDE TV-1 AND HWRP-1 ALONG WALL. |
| (P2) | CONNECT TO EXISTING 1" HWR, 1-1/4" HW, 2-1/2" HW, 2-1/2" CW. |
| (P3) | CONNECT TO EXISTING 1-1/2" NG. |
| (P4) | ALL DRAIN PIPES FROM WH-1 & WH-2 AND ASSOCIATED DRAIN PANS SHALL BE PIPED TO THIS FLOOR DRAIN. TERMINATE INDIRECTLY. |
| (P5) | (2) 4" V AND (2) 4" CA, ROUTE PIPES EXPOSED CENTERED IN BETWEEN WINDOWS UP TO ROOF. TERMINATE COMBUSTION AIR WITH GOOSENECK FITTING. INLET SHALL BE A MINIMUM OF 2'-0" ABOVE ROOF ELEVATION. TERMINATE VENT PIPING A MINIMUM OF 1'-0" ABOVE COMBUSTION AIR INLET. PROVIDE MINIMUM 1'-0" HORIZONTAL SEPARATION BETWEEN COMBUSTION AIR AND VENT. |

| PLUMBING SPECIALTIES SCHEDULE | | | | | |
|-------------------------------|--|--|--|--------------------------------|---------|
| SYMBOL | MANUFACTURER/ MODEL NUMBER | DESCRIPTION | COMPONENTS AND ACCESSORIES | MOUNTING HEIGHT | REMARKS |
| TV-1 | LEONARD "ECO-MIX" MODEL # TM-1520S-LF-DT | THERMOSTATIC MIXING VALVE, HIGH LOW MIXING VALVE, BRONZE BODY, 1 GPM MINIMUM FLOW, 1-1/4" INLETS, 1-1/2" OUTLET, 65 GPM @ 10 PSI DIFFERENTIAL. | WALL SUPPORT, INLET CHECKSTOPS, HIGH TEMP LIMIT STOP, INLET AND OUTLET UNIONS & SHUT-OFF VALVES. | MAX 5'-0" ABOVE FINISHED FLOOR | #1 |
| ET-1 | BELL & GOSSETT MODEL # PTA-42V | EXPANSION TANK, STEEL TANK, 22 GALLON, STAINLESS STEEL CONNECTION, BUTYL NSF/ANSI 61 DIAPHRAGM WITH POLYPROPYLENE LINER, 12 PSIG FACTORY PRE-CHARGE. | - | - | #1 |

REMARKS:
1. PROVIDE ISOLATION VALVES AT THE SUPPLY PIPE CONNECTIONS

| PUMP SCHEDULE | | | | | | | |
|---------------|-------------------------------|------|-------------|--------------------|----------------|-----------------------|------------|
| SYMBOL | MANUFACTURER/ MODEL NUMBER | TYPE | LOCATION | SYSTEM SERVED | CAPACITY (GPM) | CAPACITY (FT OF HEAD) | FLUID TEMP |
| HWRP-1 | BELL & GOSSETT MODEL # PL-36B | IL | BOILER ROOM | DOMESTIC HW RECIRC | 20 | 10 | 120°F |

NOTES:
IL = IN-LINE PUMP

REMARKS:
1. PUMP SHALL BE BRONZE FOR DOMESTIC WATER USE.

| GAS FIRED WATER HEATER SCHEDULE | | | | | | | |
|---------------------------------|------------------------------------|------|-------------|-----------|----------------|------------------------|------------------------------|
| SYMBOL | MANUFACTURER/ MODEL NUMBER | TYPE | LOCATION | FUEL TYPE | INPUT (BTU/Hr) | STORAGE CAPACITY (GAL) | RECOVERY AT 100°F RISE (GPH) |
| WH-1 | LOCHINVAR "SHIELD" MODEL # SWA285N | S | BOILER ROOM | GAS | 285,000 | 110 | 328 |
| WH-2 | LOCHINVAR "SHIELD" MODEL # SWA235N | S | BOILER ROOM | GAS | 285,000 | 110 | 328 |

S= STORAGE

REMARKS:
1. WATER HEATER SHALL BE PROVIDED WITH A MINIMUM GAS PRESSURE OF 7" W.C.
2. WATER HEATER SHALL BE PROVIDED WITH ELECTRONIC IGNITION.
3. PROVIDE CONDENSATE NEUTRALIZATION KIT, BY SAME MANUFACTURER AS WATER HEATER.

| PLUMBING GENERAL NOTES | |
|------------------------|--|
| 1. | THESE GENERAL NOTES ARE APPLICABLE TO ALL PLUMBING DRAWINGS. |
| 2. | DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL INTENT OF WORK. SEE DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. |
| 3. | CONTRACTOR MUST REVIEW DRAWINGS OF THE OTHER TRADES AS PART OF THIS CONTRACT FOR ADDITIONAL WORK REQUIRED AND OR COORDINATION OF HIS WORK FOR OPERATIONS OR CONNECTIONS TO OTHER SYSTEM. |
| 4. | CONTRACTOR IS NOT RESPONSIBLE FOR ROOF PENETRATIONS OR REPAIR OF EXISTING PENETRATIONS. ALL ROOF WORK SHALL BE THE RESPONSIBILITY OF THE OWNER. |

| PLUMBING PIPING LEGEND | |
|------------------------|-------------------------------|
| SYMBOL | DESCRIPTION |
| | COLD WATER |
| | HOT WATER |
| | HOT WATER RECIRCULATION |
| | NATURAL GAS |
| | FLUE VENT |
| | COMBUSTION AIR |
| | PIPE RISE |
| | PIPE DROP |
| | PIPE TEE TOWARDS (UP IN PLAN) |
| | PIPE TEE AWAY (DOWN IN PLAN) |
| | PIPE DROP AND RUN |
| | DIRECTION OF FLOW |
| | DIRT LEG |
| | UNION OR FLANGE |
| | BLIND FLANGE |
| | END CAP |
| | REDUCER |

| GENERAL ABBREVIATIONS | |
|-----------------------|-------------------------------------|
| AOC | AREA OF CONSTRUCTION |
| AD | ACCESS DOOR |
| ADJ | ADJUSTABLE |
| AF | ABOVE FINISHED FLOOR |
| ALT | ALTERNATE |
| AHJ | AUTHORITY HAVING JURISDICTION |
| AP | ACCESS PANEL |
| BAS | BUILDING AUTOMATION SYSTEM |
| BTU | BRITISH THERMAL UNIT |
| BTUH | BTU / HOUR |
| BOP | BOTTOM OF PIPE |
| CD | CONDENSATE DRAIN |
| CFH | CUBIC FEET PER HOUR |
| CI | CAST IRON |
| CO | CLEANOUT |
| CW | COLD WATER |
| DIA | DIAMETER |
| DN | DOWN |
| DSN | DOWN SPOUT NOZZLE |
| DW | DIRECT WASTE |
| ELEC | ELECTRICAL |
| ET | EXPANSION TANK |
| EWS | EMERGENCY EYEWASH/SHOWER |
| F | DEGREES FAHRENHEIT |
| FCO | FLOOR CLEANOUT |
| FEE | FINISHED FLOOR ELEVATION |
| FGCO | FINISHED GRADE CLEANOUT |
| FLA | FULL LOAD AMPS |
| FLD | FLOOR DRAIN |
| FS | FLOOR SINK |
| FT | FEET |
| FT WG | FEET HEAD |
| G | GAS |
| GAL | GALLONS |
| GPH | GALLONS PER HOUR |
| GPM | GALLONS PER MINUTE |
| GSV | GAS SOLENOID VALVE |
| GW | GREASE WASTE |
| GV | GAS VENT |
| H6 | HOSE BIB |
| HW | HOT WATER |
| HD | HEAD |
| HP | HORSEPOWER |
| HZ | HERTZ |
| HWR | HOT WATER RECIRCULATION |
| IW | INDIRECT WASTE |
| KW | KILOWATT |
| LAV | LAVATORY |
| MAX | MAXIMUM |
| MECH | MECHANICAL |
| MBH | THOUSAND BTU PER HOUR |
| MCA | MINIMUM CIRCUIT AMPACITY |
| MIN | MINIMUM |
| NIC | NOT IN CONTRACT |
| NG | NATURAL GAS |
| NTS | NOT TO SCALE |
| PCD | PUMPED CONDENSATE DRAIN |
| PLBG | PLUMBING |
| PSIG | POUNDS PER SQUARE INCH GAUGE |
| QTY | QUANTITY |
| RPBP | REDUCED PRESSURE BACKFLOW PREVENTER |
| RTU | ROOFTOP UNIT |
| SAN | SANITARY |
| SQFT / SF | SQUARE FEET |
| TEMP | TEMPERATURE |
| TYP | TYPICAL |

| PLUMBING SYMBOL LEGEND | |
|------------------------|-----------------------------------|
| SYMBOL | DESCRIPTION |
| | OS&Y GATE VALVE |
| | GATE VALVE |
| | CHECK VALVE |
| | BALL VALVE |
| | BALANCING VALVE |
| | THERMOSTATIC MIXING VALVE |
| | GLOBE VALVE |
| | BUTTERFLY VALVE |
| | PLUG VALVE |
| | EMERGENCY GAS SHUT-OFF VALVE |
| | RELIEF VALVE |
| | STRAINER |
| | FLOOR DRAIN/FLOOR SINK/AREA DRAIN |
| | PUMP |
| | FIXTURE TYPE |
| | THERMOMETER |
| | PRESSURE GAUGE |
| | PRESSURE REGULATOR |
| | UNION |
| | CAP |
| | CONNECT TO EXISTING |

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811 Middle Street
Middletown, CT 06457
T (860) 632-1662
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CES #2021016.02

STAMFORD PUBLIC
SCHOOLS

888 WASHINGTON BLVD.
STAMFORD, CT 06904

| REVISIONS | | |
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| NO. | DATE | DESCRIPTION |
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NORTHEAST
ELEMENTARY
SCHOOL DHW
REPLACEMENT

82 Scofieldtown Rd,
Stamford, CT 06903

PLUMBING PLAN

DATE: 01/29/2021
PROJECT NO: 2021016.02
DRAWN: JCC
CHECKED: Checker
ISSUED FOR: PROGRESS SET - NOT FOR CONSTRUCTION

REVISIONS:

SHEET NO.

P1.00

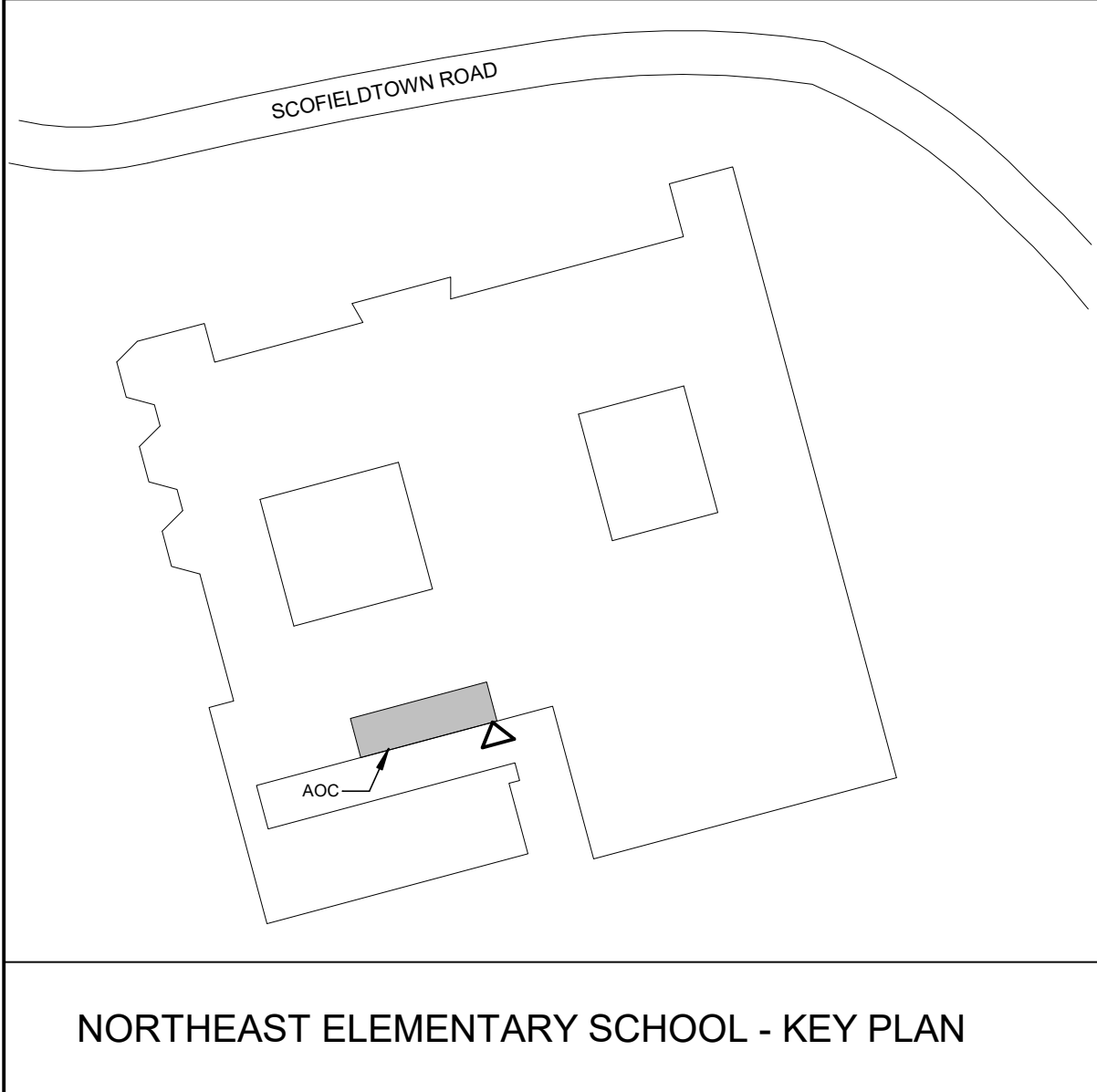


Exhibit "A"

| MOTOR / EQUIPMENT CIRCUIT SCHEDULE | | | | | | | | | | | | | |
|------------------------------------|------|-------|------|-----|----|----|----------------|---------------|------|------|---------|------------------------|----------|
| EQUIPMENT | OCPD | PANEL | LOAD | | | | LOCAL DISC. SW | MOTOR STARTER | | | WIRING | REMARKS | |
| | | | HP | MCA | KW | PH | | VOLT | SIZE | TYPE | | | LOCATION |
| HWRP-1 | ETR | PP1A | 1/6 | 2.1 | - | 1 | 115 | MAN-1P | - | SPC | AT UNIT | 2#12, #12G, 3/4" (ETR) | #1 |
| WH-1 | ETR | PP1A | - | 6.2 | - | 1 | 120 | MAN-1P | - | SPC | AT UNIT | 2#12, #12G, 3/4" (ETR) | #1 |
| WH-2 | ETR | PP1A | - | 6.2 | - | 1 | 120 | MAN-1P | - | SPC | AT UNIT | 2#12, #12G, 3/4" (ETR) | #1 |

REMARKS:
1. EQUIPMENT PROVIDED BY DIV. 22.

GENERAL NOTES:
1. DISCONNECT SWITCHES SHALL BE HEAVY-DUTY TYPE AND SHALL BE LOCATED AT EQUIPMENT LOCATION UNLESS OTHERWISE NOTED.
2. ABBREVIATIONS:
• MAN: MANUAL STARTER (TOGGLE SWITCH WITH THERMAL OVERLOADS)
• FNR: COMBINATION FULL VOLTAGE NON-REVERSING STARTER/ DISCONNECT SWITCH
• VFD: VARIABLE FREQUENCY DRIVE, FURNISHED BY DIV. 23, WIRED BY DIV. 26. PROVIDE POWER WIRING FROM SOURCE PANELBOARD TO VFD AND FROM VFD TO MOTOR(S). COORDINATE EXACT LOCATION IN FIELD WITH DIV. 23.
• DIV. 21: EQUIPMENT FURNISHED BY DIVISION 21 FIRE PROTECTION CONTRACTOR
• DIV. 22: EQUIPMENT FURNISHED BY DIVISION 22 PLUMBING CONTRACTOR
• DIV. 23: EQUIPMENT FURNISHED BY DIVISION 23 HVAC CONTRACTOR
• SPC: SINGLE POINT CONNECTION (STARTERS INTEGRAL TO EQUIPMENT). COORDINATE EXACT POINT OF CONNECTION IN FIELD.
3. OVERCURRENT PROTECTION DEVICES (OCPD) SHALL BE MOLDED CASE CIRCUIT BREAKERS UNLESS NOTED WITH AN "F" FOR FUSE.
4. DISCONNECT SWITCHES AND STARTERS SHALL BE NEMA 3R RATED WHEN LOCATED OUTSIDE.
5. REFER TO ELECTRICAL AND MECHANICAL PLANS FOR EXACT LOCATIONS OF EQUIPMENT.
6. STARTERS SHALL BE SQUARE D CLASS 8336 OR APPROVED EQUAL.

ELECTRICAL DEMOLITION KEY NOTES

- (ED)** DISCONNECT CONDUCTORS ASSOCIATED WITH (2) DOMESTIC WATER HEATERS AND (1) HOT WATER RECIRCULATION PUMP. CONDUCTORS SHALL BE CAPPED AND MADE SAFE FOR FUTURE RECONNECTION TO NEW EQUIPMENT IN THIS AREA.
- (ED2)** DISCONNECT CONDUCTORS ASSOCIATED WITH (2) CIRCULATION PUMPS STACKED ALONG WALL. CONDUCTORS AND ASSOCIATED RACEWAY SHALL BE REMOVED BACK TO PANEL OF ORIGIN.

ELECTRICAL KEY NOTES

- (E1)** CONNECT NEW EQUIPMENT TO EXISTING CIRCUIT THAT WAS SERVING THE UNIT PREVIOUSLY LOCATED AT THIS LOCATION. PROVIDE A LOCAL DISCONNECT ADJACENT TO THE EQUIPMENT, RATED TO MATCH THAT OF THE ASSOCIATED EQUIPMENT'S VOLTAGE, POLES AND LOAD.

GENERAL NOTES - ELECTRICAL

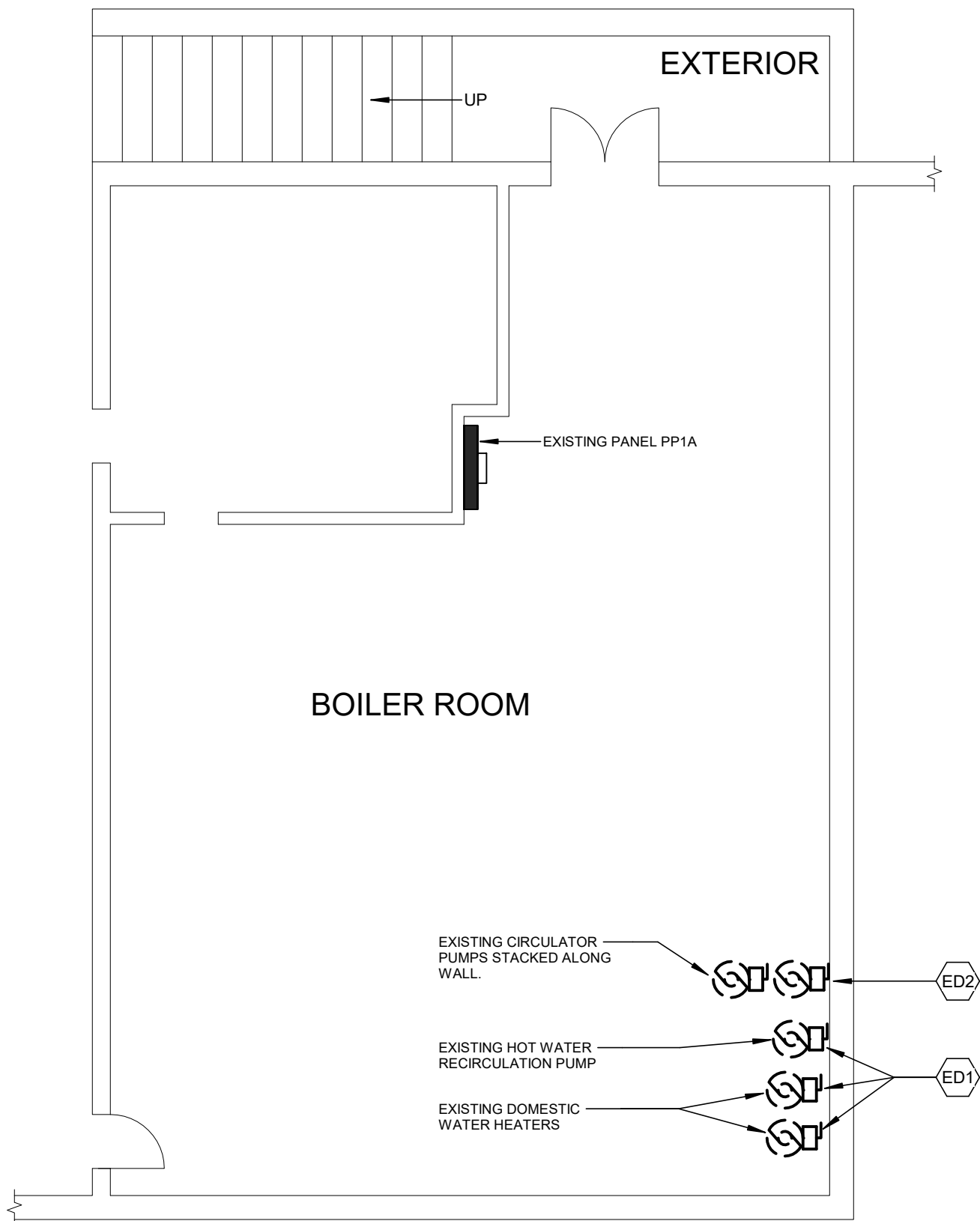
1. ALL DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).

ELECTRICAL ABBREVIATIONS

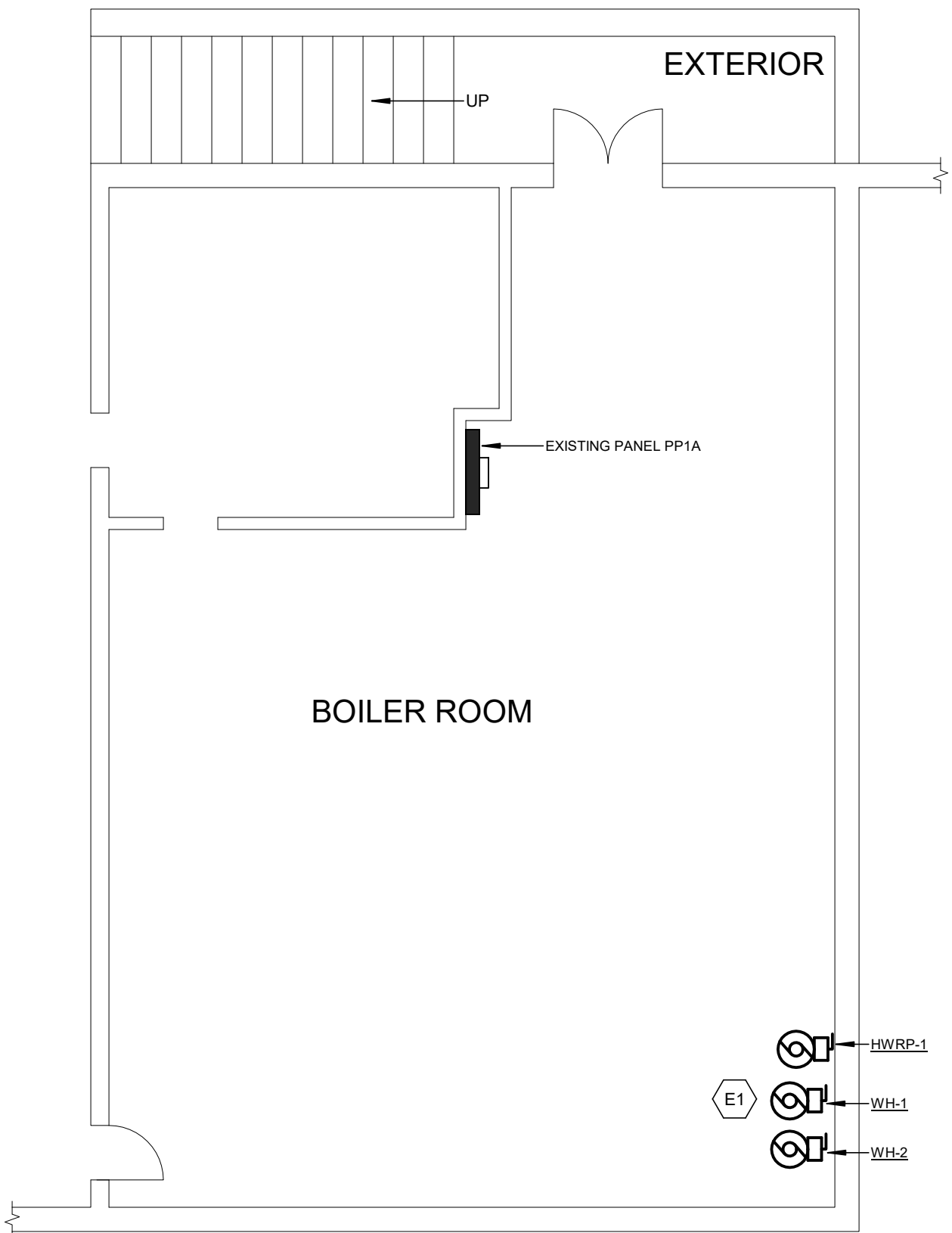
| | | | |
|--------|----------------------------------|-------|------------------------------------|
| A/AMP | AMPERE | JB | JUNCTION BOX |
| AC | ALTERNATING CURRENT | KCMIL | THOUSAND CIRCULAR MILS |
| AFCI | ARC FAULT CIRCUIT INTERRUPTER | KVA | KILOVOLT AMPERE |
| ACU | AIR CONDITIONING UNIT | KW | KILOWATT |
| AFF | ABOVE FINISHED FLOOR | MAX | MAXIMUM |
| AFG | ABOVE FINISHED GRADE | MAU | MAKE UP AIR UNIT |
| AHU | AIR HANDLING UNIT | MCS | MAIN CIRCUIT BREAKER |
| AIC | AMPS INTERRUPTING CURRENT | MCC | MOTOR CONTROL CENTER |
| AL | ALUMINUM | MCCB | MOLDED CASE CIRCUIT BREAKER |
| ATS | AUTOMATIC TRANSFER SWITCH | MH | METAL HALIDE |
| AWG | AMERICAN WIRE GAUGE | MIN | MINIMUM |
| BSMT | BASEMENT | MLO | MAIN LUGS ONLY |
| C | CONDUIT | NA | NOT APPLICABLE |
| CATV | CABLE TELEVISION | NEC | NATIONAL ELECTRIC CODE |
| C/B | CIRCUIT BREAKER | NIC | NOT IN CONTRACT |
| CKT | CIRCUIT | NL | NEW LOCATION OF EXISTING RELOCATED |
| COMP | COMPRESSOR | NR | NEW TO REPLACE EXISTING |
| CP | CONDENSATE PUMP | NTS | NOT TO SCALE |
| CU | CURRENT TRANSFORMER | P | POLE |
| CUH | CONDENSING UNIT, COPPER | PE | PRIMARY ELECTRICAL SERVICE |
| CUH | CABINET UNIT HEATER | PF | POWER FACTOR |
| DEGREE | DEGREE | PH/Ø | PHASE |
| DIA/Ø | DIAMETER | PNL | PANEL |
| DN | DOWN | PVC | POLYVINYL CHLORIDE CONDUIT |
| DWG | DRAWING | RE | REMOVE EXISTING |
| ETR | EXISTING TO REMAIN | RGS | RIGID GALVANIZED STEEL CONDUIT |
| EF | EXHAUST FAN | RL | RELOCATE EXISTING |
| ELEC | ELECTRICAL | RM | ROOM |
| ELEV | ELEVATOR | RR | REMOVE AND REPLACE ON NEW SURFACE |
| EMT | ELECTRIC METALLIC TUBING | RTU | ROOFTOP UNIT |
| EUH | ELECTRIC UNIT HEATER | SE | SECONDARY ELECTRICAL SERVICE |
| EWC | ELECTRIC WATER COOLER | SPEC | SPECIFICATION |
| EWI | ELECTRIC WATER HEATER | SWBD | SWITCHBOARD |
| F | FAHRENHEIT | SPD | SURGE PROTECTION DEVICE |
| FA | FIRE ALARM | TELE | TELECOMMUNICATIONS/TELEPHONE |
| FACP | FIRE ALARM CONTROL PANEL | TV | TELEVISION |
| FC | FOOT CANDLE | TTX | TRANSFORMER |
| FCU | FAN COIL UNIT | TYP | TYPICAL |
| G | GROUND | UH | UNIT HEATER |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER | V | VOLTS |
| HP | HORSE POWER | VA | VOLT AMPERE |
| HPS | HIGH PRESSURE SODIUM | VAC | VOLTS ALTERNATING CURRENT |
| HR | HOUR | W | WATT, WIRE |
| HZ | HERTZ | WG | WIRE GUARD |
| IG | ISOLATED GROUND | WP | WEATHERPROOF |
| IN | INCHES | | |

ELECTRICAL SYMBOL LIST

| SYMBOL | DESCRIPTION |
|--------|--|
| | SURFACE MOUNTED PANELBOARD |
| | RECESSED PANELBOARD |
| | DISCONNECT SWITCH |
| | FUSED DISCONNECT SWITCH |
| | COMBINATION MOTOR STARTER AND DISCONNECT SWITCH |
| | MOTOR STARTER OR CONTACTOR |
| | MANUAL MOTOR STARTER |
| | MOTOR (REFER TO MOTOR CIRCUIT SCHEDULE FOR POWER REQUIREMENTS) |



2 ELECTRICAL DEMOLITION PLAN - BOILER ROOM
1/8" = 1'-0"



1 ELECTRICAL PLAN - BOILER ROOM
1/8" = 1'-0"



CES #2021016.02

STAMFORD PUBLIC SCHOOLS

888 WASHINGTON BLVD.
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NORTHEAST ELEMENTARY SCHOOL DHW REPLACEMENT

82 Scofieldtown Rd,
Stamford, CT 06903

ELECTRICAL PLAN

DATE: 01/29/2021
PROJECT NO: 2021016.02
DRAWN: JCC
CHECKED: Checker
ISSUED FOR: PROGRESS SET - NOT FOR CONSTRUCTION

REVISIONS:

SHEET NO.

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Exhibit "A"





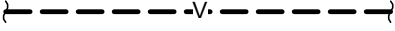



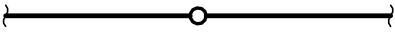

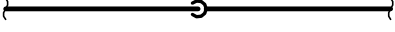








WATER HEATER DETAIL
NTS

REMARKS:
1. PROVIDE ISOLATION VALVES AT THE SUPPLY PIPE CONNECTIONS

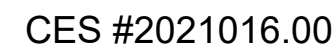
| PUMP SCHEDULE | | | | | | | | | |
|---|----------------------------------|------|--------------------|-----------------------|-------------------|-----------------------------|---------------|---------------------------------|---------|
| SYMBOL | MANUFACTURER/ MODEL NUMBER | TYPE | LOCATION | SYSTEM SERVED | CAPACITY (GPM) | CAPACITY (FT OF HEAD) | FLUID TEMP | ELEC. DATA | REMARKS |
| HWSP-1 | BELL & GOSSETT MODEL # PL-30B | IL | MECHANICAL ROOM | DOMESTIC HW RECIRC | 20 | 10 | 140°F | 1 PH/ 110V/ 15/30 2650RPM | ALL |
| NOTES: 1. IL = INLINE PUMP | | | | | | | | | |
| REMARKS: 1. PUMP SHALL BE BRONZE FOR DOMESTIC WATER USE. | | | | | | | | | |

| GAS FIRED WATER HEATER SCHEDULE | | | | | | | | |
|---|---------------------------------------|------|-----------|-----------------------------|---------------------------|---------------------------------|------------------------|---------|
| SYMBOL | MANUFACTURER/ MODEL NUMBER | TYPE | LOCATION | FUEL TYPE INPUT (BTU/HR) | STORAGE CAPACITY (GAL) | RECOVERY AT 100°F RISE (GPH) | ELEC. DATA | REMARKS |
| WH-1 | LOCHINVAR "SHIELD" MODEL # SWA150N | S | MEZZANINE | GAS | 150,000 | 90 | 1 PH / 120V / 60 HZ | ALL |
| WH-2 | LOCHINVAR "SHIELD" MODEL # SWA150N | S | MEZZANINE | GAS | 150,000 | 90 | 1 PH / 120V / 60 HZ | ALL |
| S= STORAGE | | | | | | | | |
| REMARKS: | | | | | | | | |
| 1. WATER HEATER SHALL BE PROVIDED WITH A MINIMUM GAS PRESSURE OF 7" W.C. | | | | | | | | |
| 2. WATER HEATER SHALL BE PROVIDED WITH ELECTRIC IGNITION. | | | | | | | | |
| 3. PROVIDE DRAIN MODEL #34193 ALUMINUM DRAIN PAN WITH DRAIN HOLE AND FITTING. | | | | | | | | |
| 4. PROVIDE CONDENSATE NEUTRALIZATION KIT, BY SAME MANUFACTURER AS WATER HEATER. | | | | | | | | |

| PLUMBING PIPING LEGEND | |
|---|-------------------------------|
| SYMBOL | DESCRIPTION |
|  | COLD WATER |
|  | HOT WATER |
|  | HOT WATER RECIRCULATION |
|  | NATURAL GAS |
|  | FLUE VENT |
|  | COMBUSTION AIR |
|  | PIPE RISE |
|  | PIPE DROP |
|  | PIPE TEE TOWARDS (UP IN PLAN) |
|  | PIPE TEE AWAY (DOWN IN PLAN) |
|  | PIPE DROP AND RUN |
|  | DIRECTION OF FLOW |
|  | DIRT LEG |
|  | UNION OR FLANGE |
|  | BLIND FLANGE |
|  | END CAP |
|  | REDUCER |

| GENERAL ABBREVIATIONS | |
|-----------------------|-------------------------------------|
| AOC | AREA OF CONSTRUCTION |
| ADC | ACCESS DOOR |
| ADJ | ADJUSTABLE |
| AFF | ABOVE FINISHED FLOOR |
| ALT | ALTERNATE |
| ALU | AUTHORITY HAVING JURISDICTION |
| AP | ACCESS PANEL |
| BAS | BUILDING AUTOMATION SYSTEM |
| BTU | BRITISH THERMAL UNIT |
| BTU/H | BTU/HOUR |
| BOP | BOTTOM OF PIPE |
| CD | CONDENSATE DRAIN |
| CFH | CUBIC FEET PER HOUR |
| CI | CAST IRON |
| CO | CLEAROUT |
| CW | COLD WATER |
| DA | DIAMETER |
| DN | DOWN |
| DSN | DOWN SHOUT NOZZLE |
| DW | DIRECT WASTE |
| ELEC | ELECTRICAL |
| ET | EXPOSURE TANK |
| EWS | EMERGENCY EYEWASH/SOWER |
| FA | FLANGES FIREARREST |
| FCD | FLOOR CLEANOUT |
| FEE | FINISHED FLOOR ELEVATION |
| FGCO | FINISHED GRADE CLEANOUT |
| FLA | FULL LOAD AMPS |
| FLD | FLOOR DRAIN |
| FS | FLOOR SINK |
| FT | FEET |
| FT WG | FEET HEAD |
| G | GAS |
| GAL | GALLONS |
| GPH | GALLONS PER HOUR |
| GM | GALLONS PER MINUTE |
| GV | GAS SOLENOID VALVE |
| GW | GREASE WATER |
| GV | GAS VENT |
| HB | HOSE BIB |
| HW | HOT WATER |
| HD | HEAD |
| HP | HORSEPOWER |
| HZ | HERTZ |
| HWR | HOT WATER RECIRCULATION |
| IW | INDIRECT WASTE |
| KW | KILOWATT |
| LAV | LAVATORY |
| MAX | MAXIMUM |
| MECH | MECHANICAL |
| MBH | THOUSAND BTU PER HOUR |
| MCA | MINIMUM CIRCUIT AMPACITY |
| MIN | MINIMUM |
| NC | NOT IN CONTRACT |
| NG | NATURAL GAS |
| NLS | NOT TO SCALE |
| NTB | PUMPED CONDENSATE DRAIN |
| PLB | PLUMBING |
| PSD | POUNDS PER SQUARE INCH GAUGE |
| QTY | QUANTITY |
| RNPP | REDUCED PRESSURE BACKFLOW PREVENTER |
| RTU | ROOFTOP UNIT |
| SAN | SANITARY |
| SQFT / SF | SQUARE FEET |
| TEMP | TEMPERATURE |
| TYP | TYPICAL |

| SYMBOL | DESCRIPTION |
|--------|-----------------------------------|
| | OS&Y GATE VALVE |
| | GATE VALVE |
| | CHECK VALVE |
| | BALL VALVE |
| | BALANCING VALVE |
| | THERMOSTATIC MIXING VALVE |
| | GLOBE VALVE |
| | BUTTERFLY VALVE |
| | PLUG VALVE |
| | EMERGENCY GAS SHUT-OFF VALVE |
| | RELIEF VALVE |
| | STRAINER |
| | FLOOR DRAIN/FLOOR SINK/AREA DRAIN |
| | PUMP |
| | FIXTURE TYPE |
| | THERMOMETER |
| | PRESSURE GAUGE |
| | PRESSURE REGULATOR |
| | UNION |
| | CAP |
| | CONNECT TO EXISTING |

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STAMFORD, CT 06904

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STILLMEADOW
ELEMENTARY
SCHOOL DHW
REPLACEMENT

800 Stillwater Road,
Stamford, CT 06902

PLUMBING PLAN

DATE: 01/29/2021
PROJECT NO: 2021016.00
DRAWN: JCC
CHECKED: Checker
ISSUED FOR: PROGRESS SET -
NOT FOR
CONSTRUCTION

REVISIONS:

SHEET NO.

P1.00

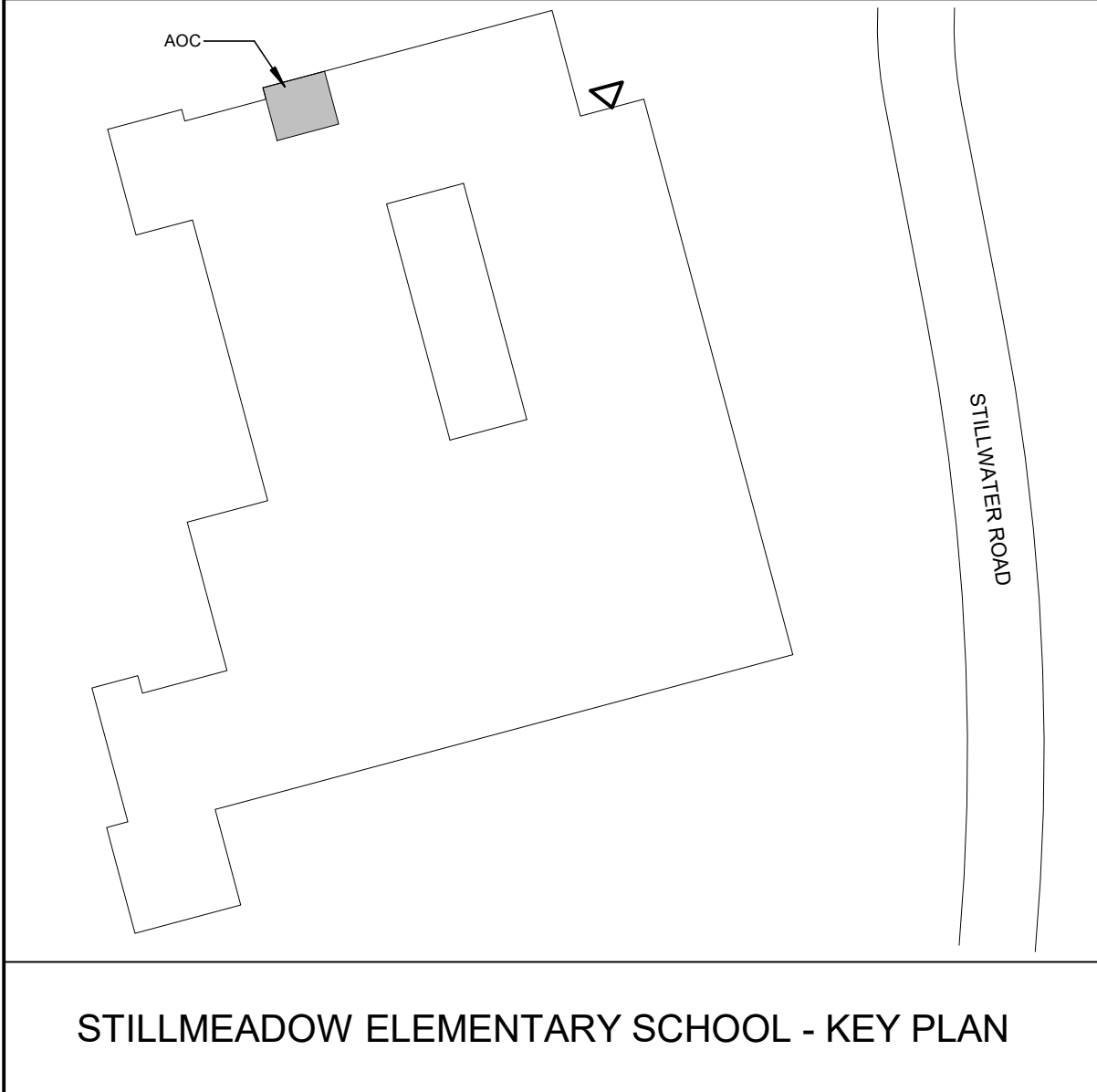


Exhibit "A"

| MOTOR / EQUIPMENT CIRCUIT SCHEDULE | | | | | | | | | | | | | |
|------------------------------------|------|-------|------|-----|----|----------------|---------------|--------|------|--------|---------|------------------------|----------|
| EQUIPMENT | OCPD | PANEL | LOAD | | | LOCAL DISC. SW | MOTOR STARTER | | | WIRING | REMARKS | | |
| | | | HP | MCA | KW | | PH | VOLT | SIZE | | | TYPE | LOCATION |
| HWRP-1 | ETR | PPIA | 1/12 | 1.4 | - | 1 | 115 | MAN-1P | - | SPC | AT UNIT | 2#12, #12G, 3/4" (ETR) | #1 |
| WH-1 | ETR | PPIA | - | 2.5 | - | 1 | 120 | MAN-1P | - | SPC | AT UNIT | 2#12, #12G, 3/4" (ETR) | #1 |
| WH-2 | ETR | PPIA | - | 2.5 | - | 1 | 120 | MAN-1P | - | SPC | AT UNIT | 2#12, #12G, 3/4" (ETR) | #1 |

REMARKS:
1. EQUIPMENT PROVIDED BY DIV. 22.

GENERAL NOTES:
1. DISCONNECT SWITCHES SHALL BE HEAVY-DUTY TYPE AND SHALL BE LOCATED AT EQUIPMENT LOCATION UNLESS OTHERWISE NOTED.
2. ABBREVIATIONS:
• MAN: MANUAL STARTER (TOGGLE SWITCH WITH THERMAL OVERLOADS)
• FMR: COMBINATION FULL VOLTAGE NON-REVERSING STARTER/DISCONNECT SWITCH
• VFD: VARIABLE FREQUENCY DRIVE, FURNISHED BY DIV. 23. WIRED BY DIV. 26. PROVIDE POWER WIRING FROM SOURCE PANELBOARD TO VFD AND FROM VFD TO MOTOR(S). COORDINATE EXACT LOCATION IN FIELD WITH DIV. 23.
• DIV. 21: EQUIPMENT FURNISHED BY DIVISION 21 FIRE PROTECTION CONTRACTOR
• DIV. 22: EQUIPMENT FURNISHED BY DIVISION 22 PLUMBING CONTRACTOR
• DIV. 23: EQUIPMENT FURNISHED BY DIVISION 23 HVAC CONTRACTOR
• SPC: SINGLE POINT CONNECTION (STARTERS INTEGRAL TO EQUIPMENT). COORDINATE EXACT POINT OF CONNECTION IN FIELD.
3. OVERCURRENT PROTECTION DEVICES (OCPD) SHALL BE MOLDED CASE CIRCUIT BREAKERS UNLESS NOTED WITH AN "F" FOR FUSE.
4. DISCONNECT SWITCHES AND STARTERS SHALL BE NEMA 3R RATED WHEN LOCATED OUTSIDE.
5. REFER TO ELECTRICAL AND MECHANICAL PLANS FOR EXACT LOCATIONS OF EQUIPMENT.
6. STARTERS SHALL BE SQUARE D CLASS 8336 OR APPROVED EQUAL.

ELECTRICAL DEMOLITION KEY NOTES

(ED) DISCONNECT CONDUCTORS ASSOCIATED WITH (2) DOMESTIC WATER HEATERS AND (1) DOMESTIC HOT WATER RECIRCULATION PUMP. CONDUCTORS SHALL BE CAPPED AND MADE SAFE FOR FUTURE RECONNECTION TO NEW EQUIPMENT IN THIS AREA.

ELECTRICAL KEY NOTES

(E1) CONNECT NEW EQUIPMENT TO EXISTING CIRCUIT THAT WAS SERVING THE UNIT PREVIOUSLY LOCATED NEAR THIS LOCATION. PROVIDE WIRING AS REQUIRED FOR CONNECTION TO EXISTING. PROVIDE A LOCAL DISCONNECT ADJACENT TO THE EQUIPMENT, RATED TO MATCH THAT OF THE ASSOCIATED EQUIPMENTS VOLTAGE, POLES AND LOAD.

GENERAL NOTES - ELECTRICAL

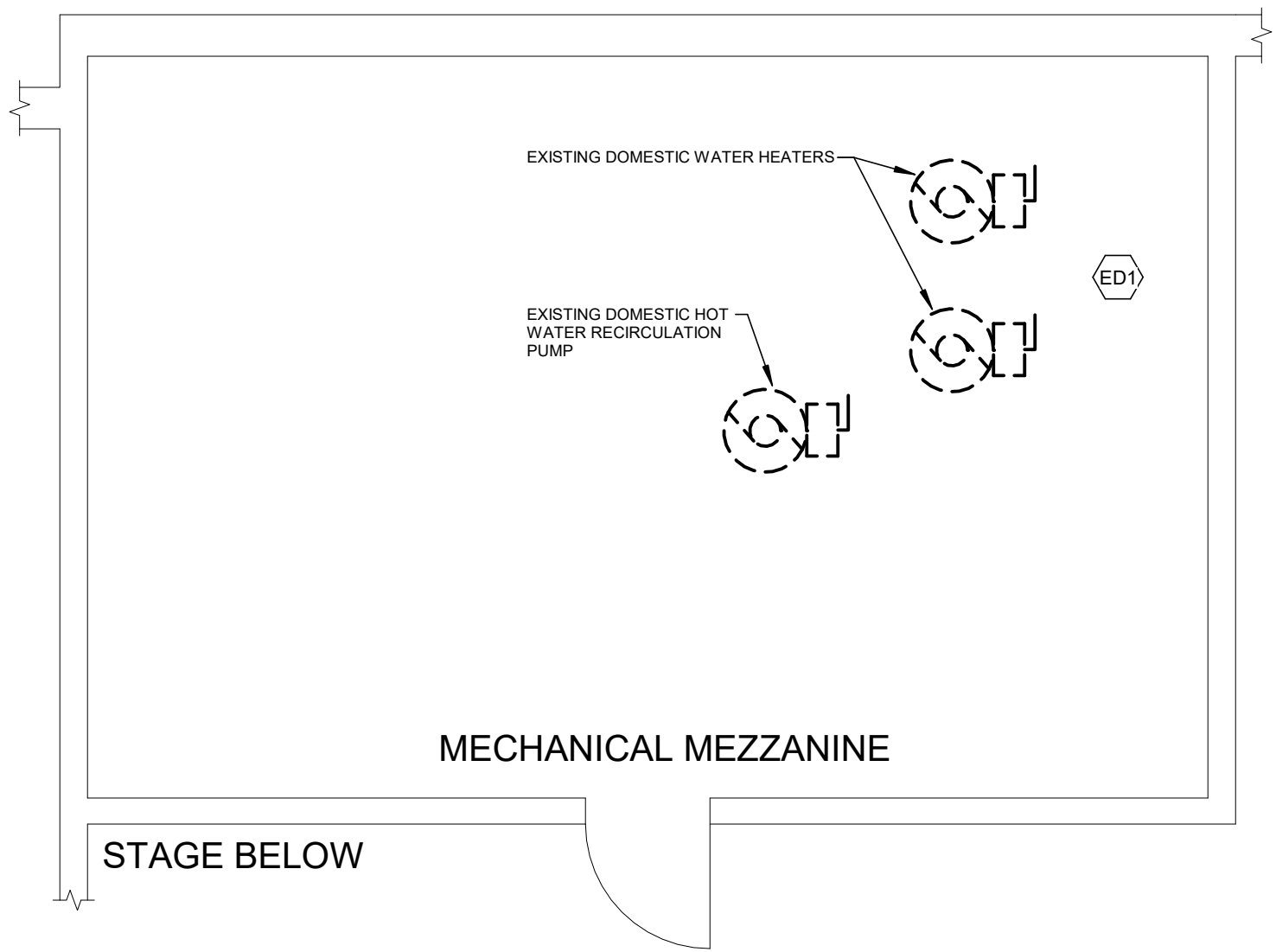
1. ALL DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).

ELECTRICAL ABBREVIATIONS

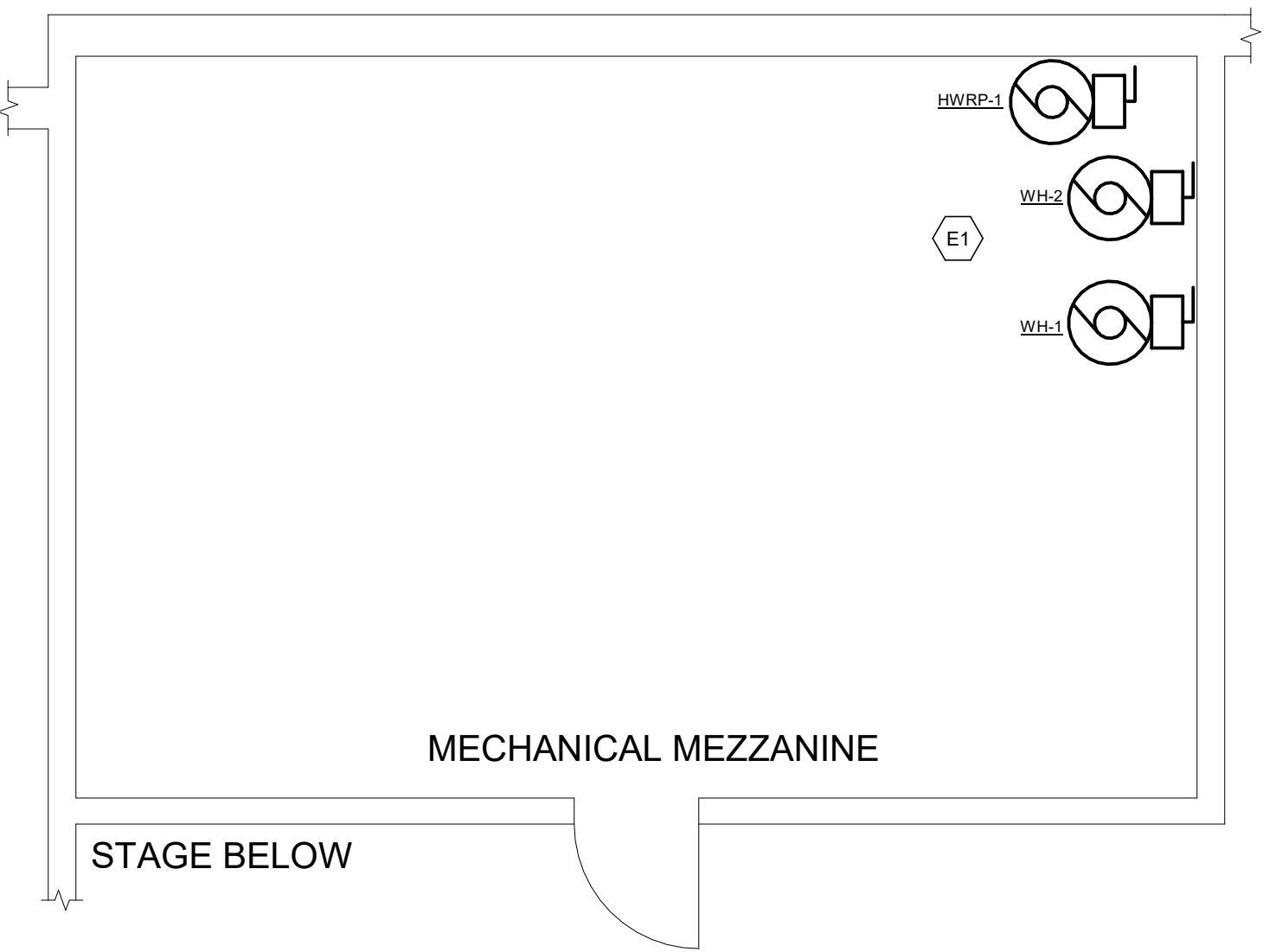
| | | | |
|--------|----------------------------------|-------|------------------------------------|
| A/AMP | AMPERE | JB | JUNCTION BOX |
| AC | ALTERNATING CURRENT | KCMIL | THOUSAND CIRCULAR MILS |
| AFCI | ARC FAULT CIRCUIT INTERRUPTER | KVA | KILOVOLT AMPERE |
| ACU | AIR CONDITIONING UNIT | KW | KILOWATT |
| AFF | ABOVE FINISHED FLOOR | KW | MAXIMUM |
| AFG | ABOVE FINISHED GRADE | MAU | MAKE UP AIR UNIT |
| AHU | AIR HANDLING UNIT | MCB | MAIN CIRCUIT BREAKER |
| AIC | AMPS INTERRUPTING CURRENT | MCC | MOTOR CONTROL CENTER |
| AL | ALUMINUM | MCCB | MOLDED CASE CIRCUIT BREAKER |
| ATS | AUTOMATIC TRANSFER SWITCH | MH | METAL HALIDE |
| AWG | AMERICAN WIRE GAUGE | MN | MINIMUM |
| BSMT | BASEMENT | MLD | MAIN LUGS ONLY |
| C | CONDUIT | NA | NOT APPLICABLE |
| CATV | CABLE TELEVISION | NEC | NATIONAL ELECTRIC CODE |
| CIB | CIRCUIT BREAKER | NIC | NOT IN CONTRACT |
| CKT | CIRCUIT | NL | NEW LOCATION OF EXISTING RELOCATED |
| COMP | COMPRESSOR | NR | NEW TO REPLACE EXISTING |
| CP | CONDENSATE PUMP | NTS | NOT TO SCALE |
| CT | CURRENT TRANSFORMER | P | POLE |
| CU | CONDENSING UNIT, COPPER | PE | PRIMARY ELECTRICAL SERVICE |
| CUH | CABINET UNIT HEATER | PF | POWER FACTOR |
| DEGREE | DEGREE | PH/2 | PHASE |
| DIA/Ø | DIAMETER | PNL | PANEL |
| DN | DOWN | PVC | POLYVINYL CHLORIDE CONDUIT |
| DWG | DRAWING | RE | REMOVE EXISTING |
| ETR | EXISTING TO REMAIN | RGS | RIGID GALVANIZED STEEL CONDUIT |
| EF | EXHAUST FAN | RL | RELOCATE EXISTING |
| ELEC | ELECTRICAL | RM | ROOM |
| ELEV | ELEVATOR | RR | REMOVE AND REPLACE ON NEW SURFACE |
| EMT | ELECTRIC METALLIC TUBING | RTU | ROOFTOP UNIT |
| ETR | EXISTING TO REMAIN | SE | SECONDARY ELECTRICAL SERVICE |
| EUH | ELECTRIC UNIT HEATER | SPEC | SPECIFICATION |
| EWC | ELECTRIC WATER COOLER | SWBD | SWITCHBOARD |
| EWI | ELECTRIC WATER HEATER | SPD | SURGE PROTECTION DEVICE |
| F | FAHRENHEIT | TELE | TELECOMMUNICATIONS/TELEPHONE |
| FA | FIRE ALARM | TV | TELEVISION |
| FAFP | FIRE ALARM CONTROL PANEL | T/TF | TRANSFORMER |
| FC | FOOT CANDLE | TYP | TYPICAL |
| FCU | FAN COIL UNIT | UH | UNIT HEATER |
| G | GROUND | V | VOLTS |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER | VA | VOLT AMPERE |
| HP | HORSE POWER | VAC | VOLTS ALTERNATING CURRENT |
| HPS | HIGH PRESSURE SODIUM | W | WATT, WIRE |
| HR | HOUR | WG | WIRE GUARD |
| HZ | HERTZ | WP | WEATHERPROOF |
| IG | ISOLATED GROUND | | |
| IN | INCHES | | |

ELECTRICAL SYMBOL LIST

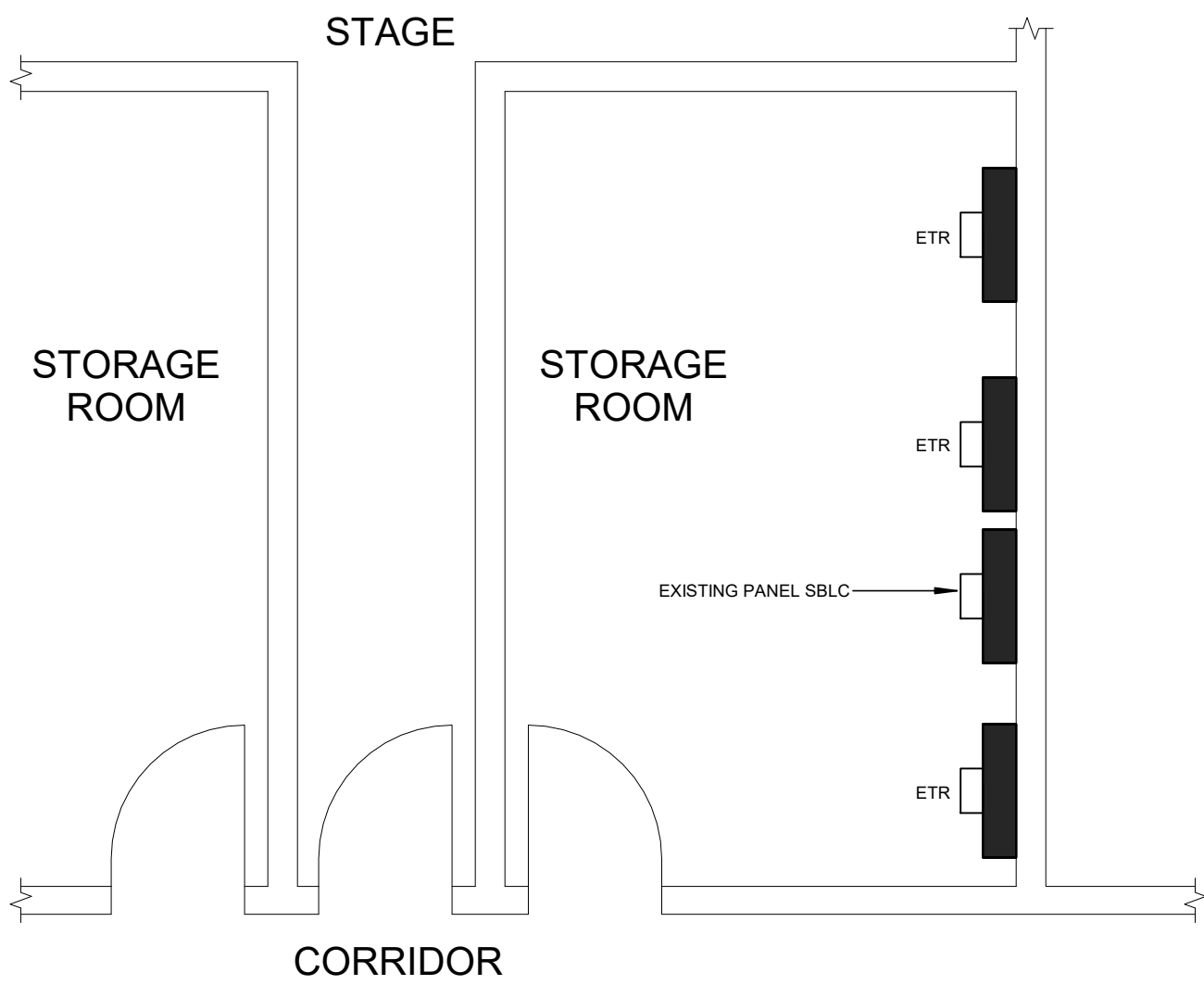
| SYMBOL | DESCRIPTION |
|--------|--|
| | SURFACE MOUNTED PANELBOARD |
| | RECESSED PANELBOARD |
| | DISCONNECT SWITCH |
| | FUSED DISCONNECT SWITCH |
| | COMBINATION MOTOR STARTER AND DISCONNECT SWITCH |
| | MOTOR STARTER OR CONTACTOR |
| | MANUAL MOTOR STARTER |
| | MOTOR (REFER TO MOTOR CIRCUIT SCHEDULE FOR POWER REQUIREMENTS) |



1 ELECTRICAL DEMOLITION PLAN - MEZZANINE
1/4" = 1'-0"



2 ELECTRICAL PART PLAN - MEZZANINE
1/4" = 1'-0"



3 ELECTRICAL PART PLAN - STORAGE ROOM
1/4" = 1'-0"



CES #2021016.00

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STAMFORD, CT 06904

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STILLMEADOW ELEMENTARY SCHOOL DHW REPLACEMENT

800 Stillwater Road,
Stamford, CT 06902

ELECTRICAL PLAN

DATE: 01/29/2021
PROJECT NO: 2021016.00
DRAWN: JCC
CHECKED: Checker
ISSUED FOR: PROGRESS SET - NOT FOR CONSTRUCTION

REVISIONS:

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Site plan of the existing concrete house showing the proposed keeping pad and various utility lines. The plan includes the following labels and features:

- EXISTING CONCRETE HOUSE
- KEEPING PAD TO REMAIN
- 2" NG ETR
- 1-1/2" NG ETR
- 1" HWR ETR
- 2" CW ETR
- 2" HW (120°F) ETR
- 1" HW (140°F) ETR
- PD1, PD2, PD3, PD4 (Pet Dog pads)

| | |
|-------|---|
| (PD1) | REMOVE RHEEM MODEL #68C-0264 WATER HEATER, LOCHINVAR MODEL #RJS120M STORAGE TANK, EXPANSION TANK, MIXING VALVE AND HOT WATER CIRCULATION PUMPS. MAINTAIN EXISTING CONCRETE HOUSE KEEPING PAD. |
| (PD2) | REMOVE ALL CW PIPING, HW PIPING, HWR PIPING, VALVES AND ASSOCIATED HANGERS SERVING THE EXISTING WATER HEATER AND STORAGE TANK BACK TO APPROXIMATELY 10'-0" ABOVE FINISHED FLOOR ELEVATION, OR BACK TO A SUFFICIENT LOCATION TO ALLOW FOR INSTALLATION OF NEW WORK, AND CAP. |
| (PD3) | REMOVE NG PIPING BACK TO TEE FITTING OVERHEAD. CUT, VALVE AND CAP FOR CONNECTION TO NEW WORK. |
| (PD4) | REMOVE WATER HEATER EXHAUST VENT PIPING. |

| | |
|----|--|
| P1 | PROVIDE AND INSTALL WH-1, WH-2, AND ET-1 ON EXISTING CONCRETE HOUSE KEEPING PAD. REFER TO DETAIL #1 FOR PIPING TO WATER HEATERS WITHIN DASHED REGION. |
| P2 | CONNECTION TO EXISTING GV, HW, HWR, AND NG PIPING OVERHEAD OF CONCRETE PAD. REFER TO DETAIL #1, ON THIS DRAWING, FOR CONNECTION SIZES. |
| P3 | (2) 4" V AND (2) 4" C, PENETRATE EXTERIOR WALL ABOVE EXISTING LOWER ROUTE PIPES EXPOSED ALONG SIDE OF BUILDING TO HIGHEST ROOF ELEVATION. TERMINATE COMBUSTION AIR WITH GOOSENECK FITTING, INLET SHALL BE A MINIMUM OF 2'-0" ABOVE ROOF ELEVATION. TERMINATE VENT PIPING A MINIMUM OF 1'-0" ABOVE COMBUSTION AIR INLET. PROVIDE MINIMUM 1'-0" HORIZONTAL SEPARATION BETWEEN COMBUSTION AIR VENT. |

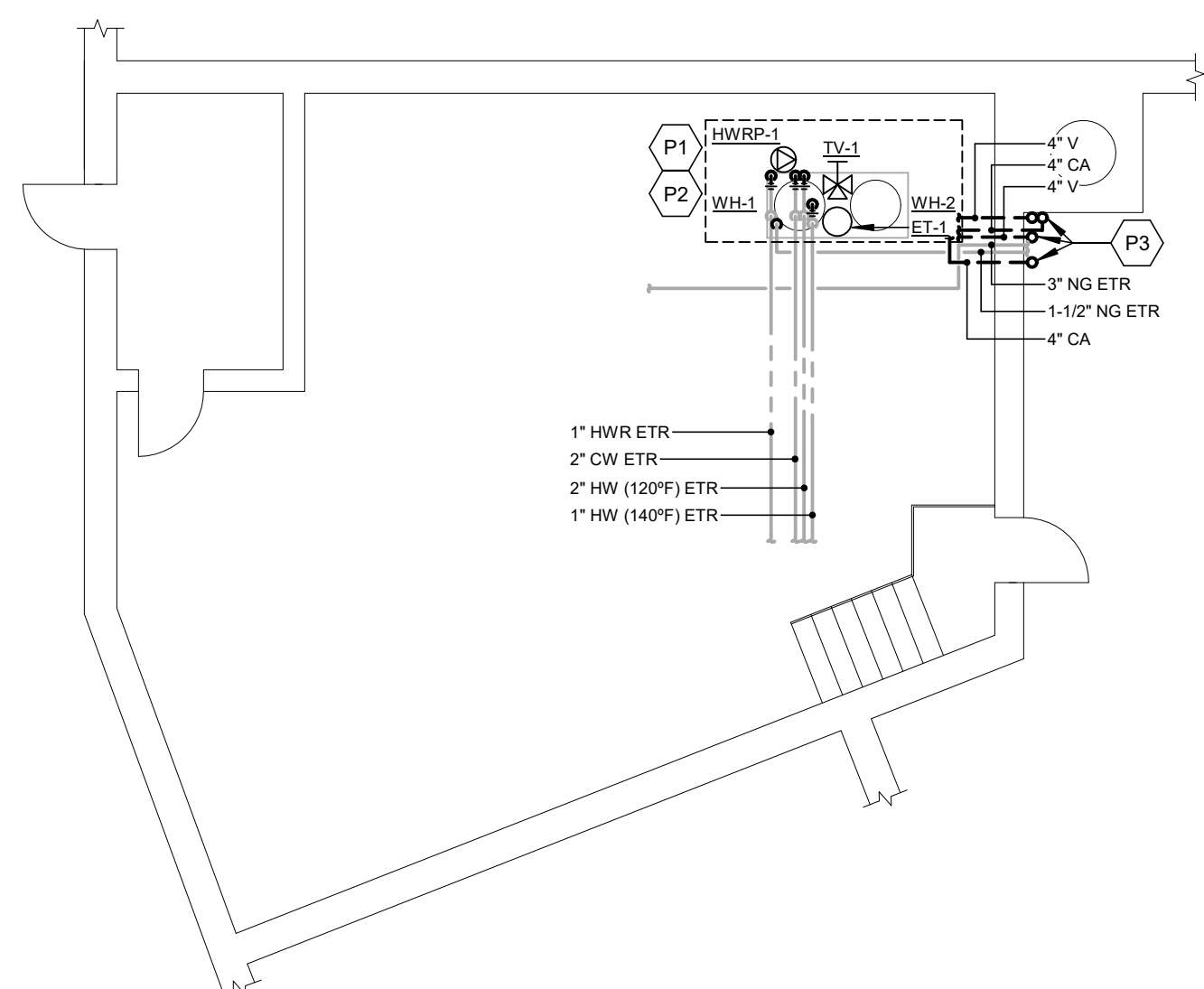
| SYMBOL | MANUFACTURER/ MODEL NUMBER | DESCRIPTION | COMPONENTS AND ACCESSORIES | MOUNTING HEIGHT | REMARKS |
|--------|--|---|---|-----------------------------------|---------|
| TV-1 | LEONARDO "ECO-MIX" MODEL 87 TM2202B-LF-DT | THERMOSTATIC MIXING VALVE: HIGH-LOW MIXING VALVE. BRONZE BODY, 1 GPM MINIMUM FLOW, 2" INLETS, 2" OUTLET, 113 GPM @ 10 PSI DIFFERENTIAL. | WALL SUPPORT, INLET CHECKSTOP, HIGH TEMP LIMIT STOP, INLET AND OUTLET UNIONS & SHUT-OFF VALVES. | MAX 5'-0" ABOVE FINISHED FLOOR | #1 |
| ET-1 | AMTROL MODEL 41 ST-30VC | EXPANSION TANKS STEEL TANK, 14 GALLON, STAINLESS STEEL CONNECTION, HEAVY DUTY BUTYL NSF/ANSI 61 DIAPHRAGM WITH ANTIMICROBIAL POLYPROPYLENE LINER. 55 PSIG FACTORY PRE-CHARGE. | - | - | #1 |

1. THESE GENERAL NOTES ARE APPLICABLE TO ALL PLUMBING DRAWINGS.
2. DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL INTENT OF WORK, SEE DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. CONTRACTOR MUST REVIEW DRAWINGS OF THE OTHER TRADES AS PART OF THIS CONTRACT FOR ADDITIONAL WORK REQUIRED AND OR COORDINATION OF HIS WORK FOR OPERATIONS OR CONNECTIONS TO OTHER SYSTEM.
4. CONTRACTOR IS NOT RESPONSIBLE FOR ROOF PENETRATIONS OR REPAIR OF EXISTING PENETRATIONS. ALL ROOF WORK SHALL BE THE RESPONSIBILITY OF THE OWNER.

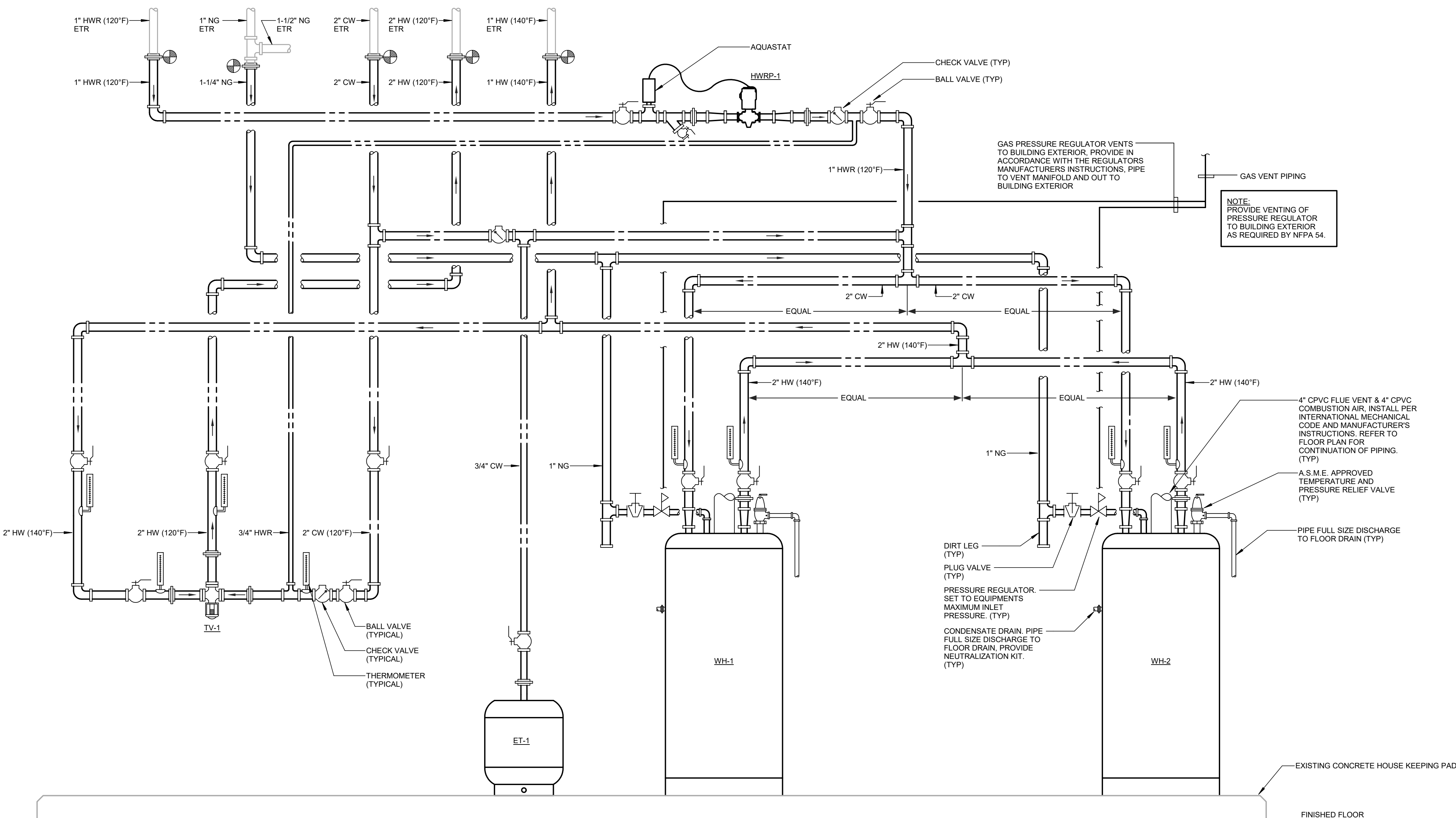
| SYMBOL | DESCRIPTION |
|--------|-------------------------------|
| | COLD WATER |
| | HOT WATER |
| | HOT WATER RECIRCULATION |
| | NATURAL GAS |
| | FLUE VENT |
| | COMBUSTION AIR |
| | PIPE RISE |
| | PIPE DROP |
| | PIPE TEE TOWARDS (UP IN PLAN) |
| | PIPE TEE AWAY (DOWN IN PLAN) |
| | PIPE DROP AND RUN |
| | DIRECTION OF FLOW |
| | DIRT LEG |
| | UNION OR FLANGE |
| | BLIND FLANGE |
| | END CAP |
| | REDUCER |

| | |
|-----------|-------------------------------------|
| AOC | AREA OF CONSTRUCTION |
| ACD | ACCESS DOOR |
| AJ | ADJUSTABLE |
| AFF | Above FINISHED FLOOR |
| ALT | ALTERNATE |
| AHJ | AUTHORITY HAVING JURISDICTION |
| AP | ACCESS PANEL |
| BA | BUILDING AUTOMATION SYSTEM |
| BTU | BRITISH THERMAL UNIT |
| BTUH | BTU / HOUR |
| BP | BOTTOM OF PIPE |
| CD | CONDENSATE DRAIN |
| CHP | CUBIC FEET PER HOUR |
| CI | CAST IRON |
| CO | CLEANOUT |
| OW | COLD WATER |
| DA | DIAMETER |
| DN | DOWN |
| DSN | DOWN SPOUT NOZZLE |
| OW | DIRECT WASTE |
| ELEC | ELECTRICAL |
| ET | EXPANSION TANK |
| EWS | EMERGENCY EYEWASH SHOWER |
| FG | DEGREES FARENHEIT |
| FCO | FLOOR CLEANOUT |
| FFE | FINISHED FLOOR ELEVATION |
| FGCO | FINISHED GRADE CLEANOUT |
| FLA | FULL LOAD AMPS |
| FLD | FLOOR DRAIN |
| FS | FLOOR SINK |
| FT | FEET |
| FT WG | FEET HEAD |
| G | GAS |
| G | GALLONS |
| GPH | GALLONS PER HOUR |
| GPM | GALLONS PER MINUTE |
| GSV | GAS SOLENOID VALVE |
| GW | GREASE WASTE |
| GV | GAS VENT |
| HB | HOSE BIB |
| HW | HOT WATER |
| HD | HEAD |
| HP | HORSEPOWER |
| HR | HERTZ |
| HWR | HOT WATER RECIRCULATION |
| W | INDIRECT WASTE |
| KW | KILOWATT |
| LAV | LAVATORY |
| M | MAXIMUM |
| MECH | MECHANICAL |
| MBH | THOUSAND BTU PER HOUR |
| MCA | MINIMUM CIRCUIT AMPACITY |
| MIN | MINIMUM |
| NC | NOT IN CONTRACT |
| N | NATURAL GAS |
| NTS | NOT TO SCALE |
| PCD | PUMPED CONDENSATE DRAIN |
| PLBG | PLUMBING |
| PSIG | POUNDS PER SQUARE INCH GAUGE |
| QTY | QUANTITY |
| RPBP | REDUCED PRESSURE BACKFLOW PREVENTER |
| RTU | ROOFTOP UNIT |
| SAN | SANITARY |
| SQFT / SF | SQUARE FEET |
| TEMP | TEMPERATURE |
| TYP | TYPICAL |

| SYMBOL | DESCRIPTION |
|--------|-----------------------------------|
| | OS&Y GATE VALVE |
| | GATE VALVE |
| | CHECK VALVE |
| | BALL VALVE |
| | BALANCING VALVE |
| | THERMOSTATIC MIXING VALVE |
| | GLOBE VALVE |
| | BUTTERFLY VALVE |
| | PLUG VALVE |
| | EMERGENCY GAS SHUT-OFF VALVE |
| | RELIEF VALVE |
| | STRAINER |
| | FLOOR DRAIN/FLOOR SINK/AREA DRAIN |
| | PUMP |
| | FIXTURE TYPE |
| | THERMOMETER |
| | PRESSURE GAUGE |
| | PRESSURE REGULATOR |
| | UNION |
| | CAP |
| | CONNECT TO EXISTING |

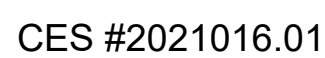


1/8" = 1'-0"



1. CONTRACTOR MUST COORDINATE EXPANSION TANK PIPING INSTALLATION PER EXPANSION TANK MANUFACTURERS INSTALLATION INSTRUCTION. EXPANSION TANK PIPING CONFIGURATION IS INDICATED FOR REFERENCE ONLY.

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SCHOOLS

888 WASHINGTON BLVD.
STAMFORD, CT 06904

| REVISIONS | | |
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| NO. | DATE | DESCRIPTION |
| | | |

SPRINGDALE
ELEMENTARY
SCHOOL DHW
REPLACEMENT

1127 Hope St,
Stamford, CT 06907

PLUMBING PLAN

DATE: 01/29/2021
PROJECT NO: 2021016.01
DRAWN: JCC
CHECKED: Checker
ISSUED FOR: PROGRESS SET -
NOT FOR
CONSTRUCTION

REVISIONS:

SHEET NO.

P1.00

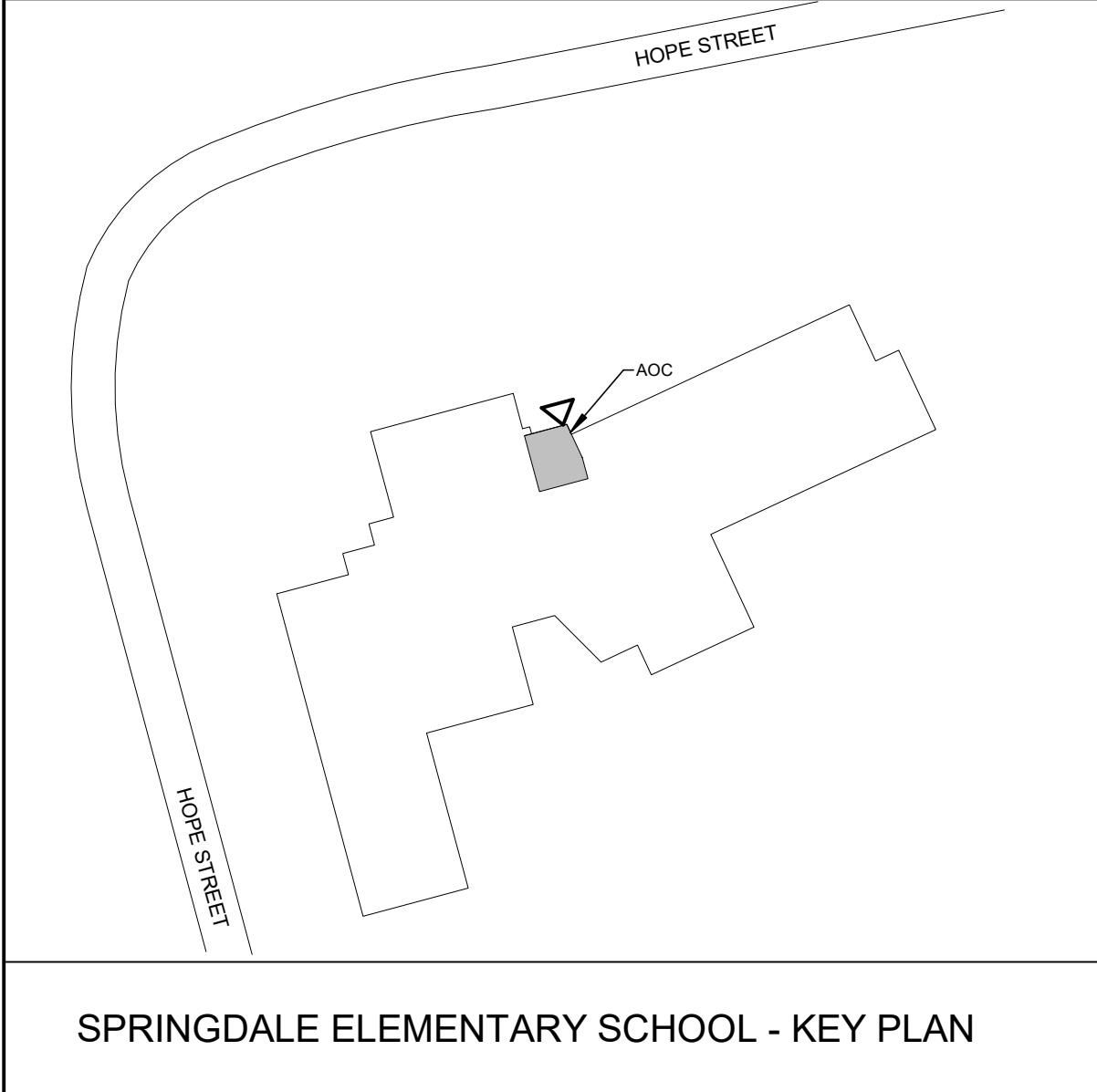


Exhibit "A"

MOTOR / EQUIPMENT CIRCUIT SCHEDULE

| EQUIPMENT | OCPD | PANEL | LOAD | | | LOCAL DISC. SW | MOTOR STARTER | | | WIRING | REMARKS | | |
|-----------|--------|-----------|------|-----|----|----------------|---------------|--------|------|--------|---------|------------------------|----------|
| | | | HP | MCA | KW | | PH | VOLT | SIZE | | | TYPE | LOCATION |
| HWRP-1 | ETR | PANEL BRM | - | 2.5 | - | 1 | 120 | MAN-1P | - | SPC | AT UNIT | 2#12, #12G, 3/4" (ETR) | #1 |
| WH-1 | ETR | PANEL BRM | - | 2.5 | - | 1 | 120 | MAN-1P | - | SPC | AT UNIT | 2#12, #12G, 3/4" (ETR) | #1 |
| WH-2 | 20A-1P | PANEL BRM | - | 2.5 | - | 1 | 120 | MAN-1P | - | SPC | AT UNIT | 2#12, #12G, 3/4" | #1 |

REMARKS:
1. EQUIPMENT PROVIDED BY DIV. 22.

GENERAL NOTES:
1. DISCONNECT SWITCHES SHALL BE HEAVY-DUTY TYPE AND SHALL BE LOCATED AT EQUIPMENT LOCATION UNLESS OTHERWISE NOTED.
2. ABBREVIATIONS:
• MAN: MANUAL STARTER (TOGGLE SWITCH WITH THERMAL OVERLOADS)
• FVNR: COMBINATION FULL VOLTAGE NON-REVERSING STARTER/DISCONNECT SWITCH
• VFD: VARIABLE FREQUENCY DRIVE, FURNISHED BY DIV. 23, WIRED BY DIV. 26. PROVIDE POWER WIRING FROM SOURCE PANELBOARD TO VFD AND FROM VFD TO MOTOR(S). COORDINATE EXACT LOCATION IN FIELD WITH DIV. 23.
• DIV. 21: EQUIPMENT FURNISHED BY DIVISION 21 FIRE PROTECTION CONTRACTOR
• DIV. 22: EQUIPMENT FURNISHED BY DIVISION 22 PLUMBING CONTRACTOR
• DIV. 23: EQUIPMENT FURNISHED BY DIVISION 23 HVAC CONTRACTOR
• SPC: SINGLE POINT CONNECTION (STARTERS INTEGRAL TO EQUIPMENT). COORDINATE EXACT POINT OF CONNECTION IN FIELD.
3. OVERCURRENT PROTECTION DEVICES (OCPD) SHALL BE MOLDED CASE CIRCUIT BREAKERS UNLESS NOTED WITH AN "F" FOR FUSE.
4. DISCONNECT SWITCHES AND STARTERS SHALL BE NEMA 3R RATED WHEN LOCATED OUTSIDE.
5. REFER TO ELECTRICAL AND MECHANICAL PLANS FOR EXACT LOCATIONS OF EQUIPMENT.
6. STARTERS SHALL BE SQUARE D CLASS 8336 OR APPROVED EQUAL.

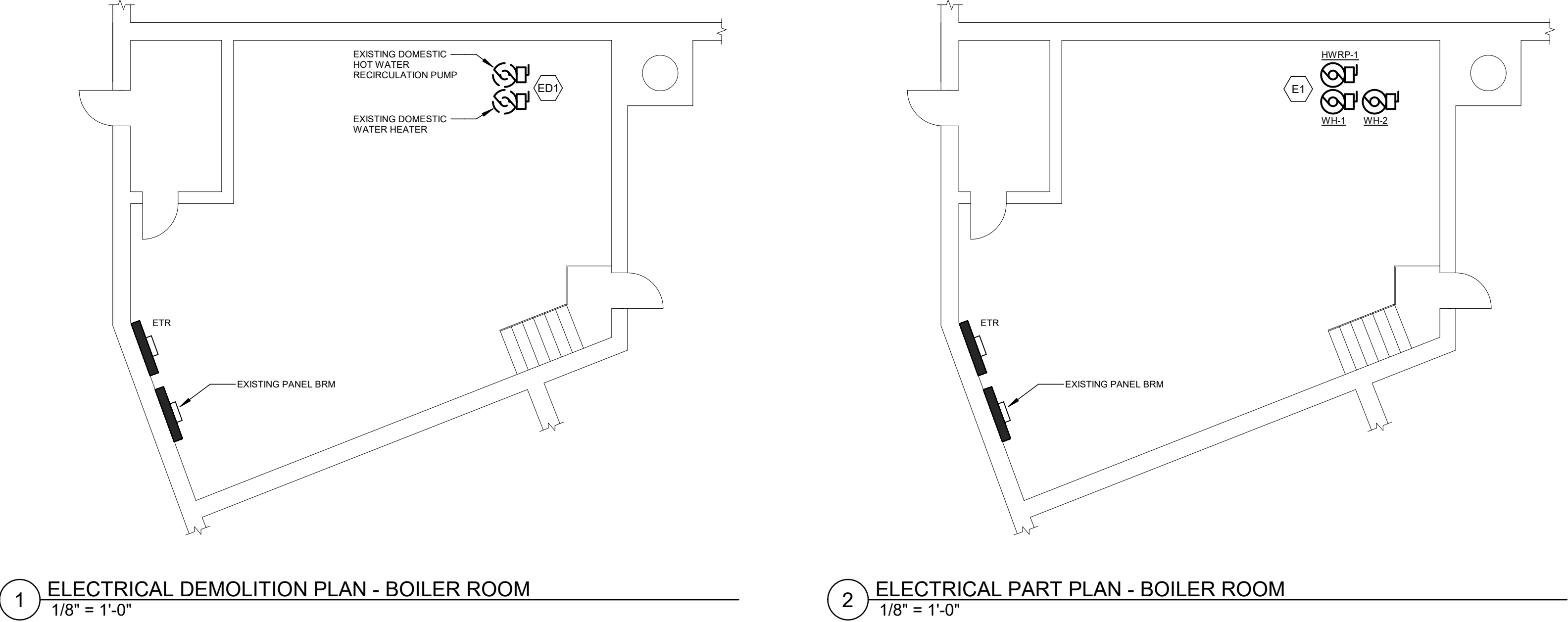
| ELECTRICAL DEMOLITION KEY NOTES | |
|---------------------------------|---|
| | DISCONNECT CONDUCTORS ASSOCIATED WITH DOMESTIC WATER HEATER AND HOT WATER RECIRCULATION PUMP. CONDUCTORS SHALL BE CAPPED AND MADE SAFE FOR FUTURE RECONNECTION TO NEW EQUIPMENT IN THIS AREA. |

| ELECTRICAL KEY NOTES | |
|----------------------|---|
| | CONNECT NEW EQUIPMENT TO EXISTING CIRCUIT THAT WAS SERVING THE UNIT PREVIOUSLY LOCATED AT THIS LOCATION. PROVIDE A LOCAL DISCONNECT ADJACENT TO THE EQUIPMENT, RATED TO MATCH THAT OF THE ASSOCIATED EQUIPMENT'S VOLTAGE, POLES AND LOAD. |

| GENERAL NOTES - ELECTRICAL | |
|----------------------------|---|
| 1. | ALL DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S). |

| ELECTRICAL ABBREVIATIONS | | | |
|--------------------------|----------------------------------|-------|------------------------------------|
| A/AMP | AMPERE | JB | JUNCTION BOX |
| AC | ALTERNATING CURRENT | KCMIL | THOUSAND CIRCULAR MILS |
| AFCI | ARC FAULT CIRCUIT INTERRUPTER | KVA | KILOVOLT AMPERE |
| ACU | AIR CONDITIONING UNIT | KW | KILOWATT |
| AFF | ABOVE FINISHED FLOOR | MAX | MAXIMUM |
| AFG | ABOVE FINISHED GRADE | MAU | MAKE UP AIR UNIT |
| AHU | AIR HANDLING UNIT | MCB | MAIN CIRCUIT BREAKER |
| AIC | AMPS INTERRUPTING CURRENT | MCC | MOTOR CONTROL CENTER |
| AL | ALUMINUM | MCCB | MOLDED CASE CIRCUIT BREAKER |
| ATS | AUTOMATIC TRANSFER SWITCH | MH | METAL HALIDE |
| AWG | AMERICAN WIRE GAUGE | MIN | MINIMUM |
| BSMT | BASEMENT | MLO | MAIN LUGS ONLY |
| C | CONDUIT | NA | NOT APPLICABLE |
| CATV | CABLE TELEVISION | NEC | NATIONAL ELECTRIC CODE |
| CB | CIRCUIT BREAKER | NIC | NOT IN CONTRACT |
| CKT | CIRCUIT | NL | NEW LOCATION OF EXISTING RELOCATED |
| COMP | COMPRESSOR | NR | NEW TO REPLACE EXISTING |
| CP | CONDENSATE PUMP | NTS | NOT TO SCALE |
| CT | CURRENT TRANSFORMER | P | POLE |
| CU | CONDENSING UNIT, COPPER | PE | PRIMARY ELECTRICAL SERVICE |
| CUH | CABINET UNIT HEATER | PF | POWER FACTOR |
| DEGREE | DEGREE | PH/2 | PHASE |
| DIA/Ø | DIAMETER | PNL | PANEL |
| DN | DOWN | PVC | POLYVINYL CHLORIDE CONDUIT |
| DWG | DRAWING | RE | REMOVE EXISTING |
| ETR | EXISTING TO REMAIN | RCS | RIGID GALVANIZED STEEL CONDUIT |
| EF | EXHAUST FAN | RL | RELOCATE EXISTING |
| ELEC | ELECTRICAL | RM | ROOM |
| ELEV | ELEVATOR | RR | REMOVE AND REPLACE ON NEW SURFACE |
| EMT | ELECTRIC METALLIC TUBING | RTU | ROOFTOP UNIT |
| ETR | EXISTING TO REMAIN | SE | SECONDARY ELECTRICAL SERVICE |
| EUH | ELECTRIC UNIT HEATER | SPEC | SPECIFICATION |
| EWC | ELECTRIC WATER COOLER | SWBD | SWITCHBOARD |
| FWH | FIRE WATER HEATER | SFD | SURGE PROTECTION DEVICE |
| F | FAHRENHEIT | TELE | TELECOMMUNICATIONS/TELEPHONE |
| FA | FIRE ALARM | TV | TELEVISION |
| FACP | FIRE ALARM CONTROL PANEL | T/TTX | TRANSFORMER |
| FCU | FAN COIL UNIT | TYP | TYPICAL |
| G | GROUND | UH | UNIT HEATER |
| V | VOLTS | V | VOLTS |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER | VA | VOLT AMPERE |
| HP | HORSE POWER | VAC | VOLTS ALTERNATING CURRENT |
| HPS | HIGH PRESSURE SODIUM | W | WATT, WIRE |
| HR | HOUR | WG | WIRE GUARD |
| HZ | HERTZ | WP | WEATHERPROOF |
| IG | ISOLATED GROUND | | |
| IN | INCHES | | |

| ELECTRICAL SYMBOL LIST | |
|------------------------|--|
| SYMBOL | DESCRIPTION |
| | SURFACE MOUNTED PANELBOARD |
| | RECESSED PANELBOARD |
| | DISCONNECT SWITCH |
| | FUSED DISCONNECT SWITCH |
| | COMBINATION MOTOR STARTER AND DISCONNECT SWITCH |
| | MOTOR STARTER OR CONTACTOR |
| | MANUAL MOTOR STARTER |
| | MOTOR (REFER TO MOTOR CIRCUIT SCHEDULE FOR POWER REQUIREMENTS) |



1 ELECTRICAL DEMOLITION PLAN - BOILER ROOM
1/8" = 1'-0"

2 ELECTRICAL PART PLAN - BOILER ROOM
1/8" = 1'-0"

Consulting Engineering Services, Inc.
811 Middle Street
Middletown, CT 06457
T (860) 632-1662
F (860) 632-1768
www.cesct.com

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| REVISIONS | | |
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SPRINGDALE ELEMENTARY SCHOOL DHW REPLACEMENT

1127 Hope St,
Stamford, CT 06907

ELECTRICAL PLAN

DATE: 01/29/2021
PROJECT NO: 2021016.01
DRAWN: JCC
CHECKED: Checker
ISSUED FOR: PROGRESS SET - NOT FOR CONSTRUCTION

REVISIONS:

SHEET NO.

E1.00