

**Addendum #1**

Addendum Date: December 3, 2024

Project: Swift Community Center

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The work herein shall be considered part of the bid documents for the referenced project and carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. Acknowledge receipt of addendum on the bid form as indicated.

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**Questions & Answers:**

- Q1.** Drawing C-2 calls for the existing tree to be “preserved”. Please clarify.  
**A - Due to the proximity of the root system of the tree to the excavated area, remove and dispose of the tree in its entirety.**
- Q2.** C-2 please confirm the existing playground will be removed by the town prior to our mobilization.  
**A - The existing playground shall remain and be fenced off from the adjacent construction. Refer to Limit of Disturbance line indicated on Sheet C-2. However, the Town will close the playground during construction due to its proximity to the construction site.**
- Q3.** What is the steel gauge requirement for the exterior walls & interior partitions?  
**A - Although the final design of the cold-formed metal framing (CFMF) construction will be delegated to the Cold Form Steel Framing Supplier (in accordance with drawing notes on Sheet S-000), we would anticipate a minimum of 12 gauge for the exterior walls and 20 gauge for the interior walls.**
- Q4.** Regarding the BMS controls system? 1. What brand of control system is required? Brand is not noted, but “no substitutions” is noted. 2. Will the control scope of work extend into the existing building and existing mechanicals? a. If so, please provide a list of equipment to be controlled.  
**A - All new equipment installed in this project shall be standalone controlled. Delete specification section 23 09 23 - Direct Digital Control System for HVAC. The Samsung VRF central controller shall provide control of the VRF system. Provide Renewaire ERV with enhanced controls/BACnet factory activation for occupancy scheduling of ERV and for discharge air temperature control of associated electric duct heating coil. The enhanced controller can be integrated into a building-wide control system in the future. There is no controls scope in the existing building.**



- Q5. The specifications contain cut sheets for the focus rooms. Are these rooms being furnished and installed by the owner or the contractor?  
**A - All three Focus Rooms shall be furnished and installed by the contractor.**
- Q6. Paragraph 3 of the Instructions to Proponents states that the date of substantial completion is 10/31/26, should this read 10/31/25? Please advise.  
**A - No. The project must be substantially complete by October 31, 2026 in accordance with the grant funding. However, it is the intent to start construction this spring and be complete prior to the end of 2025.**
- Q7. Please provide specifications for the following items of work: a. Insulated Metal Panel Transoms b. Door Hardware c. Air & Vapor Barrier d. Security Window Film e. Closed Cell Spray Foam Insulation  
**A - Refer to Section 08 44 00 Insulated Metal Infill Panel (Attached.)  
Additional information regarding door hardware shall be provided in a subsequent Addenda.  
Refer to Section 08 80 00 Glazing for Hurricane-Resistant Polyvinyl Butyral (PVB) Interlayer for Laminated Glazing. (Previously issued) There is no Security Window Film in the project.  
Refer to Section 07 27 00 Fully Adhered Air and Water Resistive Barriers for Air & Vapor Barrier and Closed Cell Spray Foam Insulation information. (Attached)**
- Q8. Please provide typical wall type for exterior wall  
**A - Refer to Revised Sheets A302 and A303. (Attached)**
- Q9. There are no Fire Alarm drawings included in the drawing set. What are the fire safety requirements for the new space? Who is the manufacturer of the existing FA Panel?  
**A - Fire alarm devices shall be added to the power plans in addendum #1. The existing fire alarm panel is a Mircom Fire Alarm Control - FX-2000.**
- Q10. 01 22 00 Unit Prices 1.08A lists "Item: Masonry Repointing; Section 04 03 00." I don't see any unit prices called for in Section 04 03 00? 3.08? Please advise further.  
**A - Section 04 03 00 Masonry Repointing is referenced for requirements for materials, equipment, systems, standards and workmanship for the work. The bidder shall identify the cost of Masonry Repointing on the Bid Form.**
- Q11. Specification pages 113-122 following spec section 09 21 16 Gypsum Board are showing a Focus Room. I see no calls for this on the plans. Please confirm this isn't a part of this project.  
**A - Three Focus Rooms are required and shall be furnished and installed by the Contractor. These rooms are free-standing, prefabricated private spaces for telehealth, virtual calls, etc. They are shown on sheet IF-100 Furniture Plan and Room Finish Schedule. They are identified as Quiet Pods. Two are for individual use, one is larger to accommodate ADA clearance requirements**



- Q12.** Is Exterior Elevation Note W2 used anywhere? There is a note #1 in a circle next to fencing double doors at the exterior northwest corner of the building; is this meant for anything?
- A - *Include the cost to cut, remove, and replace individual masonry units (bricks) in accordance with the specifications for a quantity of 5 masonry units. Exact locations to be identified in the field.***
- Q13.** The window on the west elevation of drawing A-201 with a tag A1 is smaller than the other A1 windows shown on the north elevation. Please confirm that this tag is supposed to be an A2 window like the one on the east elevation and as called for on the Window (&?) Schedule on drawing A-602.
- A - *That is correct. The window in the west elevation of drawing A-201 is identified incorrectly and should be identified as an A2 window.***
- Q14.** On the Alternate #1 Plumbing plan the sewer line is starting in the existing building (as also noted on drawing AD-100 Demo Note D-05) heading north and turns east in the new addition onward through the exterior wall where there is a note saying, "SEE CIVIL FOR CONTUNUATION". I see no sewer line connection noted on Drawing C-2 nor any existing sewer lines noted in the area on Drawing ECS. Please advise.
- A - *Additional information regarding the sewer line connection shall be provided in a subsequent Addenda.***
- Q15.** (My original questions re: Alt #1 was very long and followed my Q8 question. I think my time timed out. Not typing all that again.) Short version: Please clarify base bid vs. Alternate #1. Confirm drawings P-000 and A-401 are only for the Alternate #1 pricing. There will be no toilet accessories in the base bid. Are Bath 230 walls & door 006 still in the base bid? If yes - Wall finishes CT to all PNT-1? Flooring PT to LVT? Ceiling configuration? HVAC work? Lighting/electrical work?
- A - *Correct. Sheets P-000 and A-401 indicate work shown for Alternate #1 only. Should Alternate #1 not be accepted in the awarded bid, no toilet accessories, shall be provided. The room shall be constructed in the same manner as the adjacent Storage Room. Room walls and door 006 shall be provided, painted walls in lieu of ceramic tile and LVT flooring in lieu of ceramic tile.***
- Q16.** Is there window treatment getting installed on all new windows? Window treatment is included in Materials Legend but no detail as to where they go. Focus room/Quiet Pods included in specs. Is contractor responsible for furnishing and installing Quiet Pods? Will furniture in existing space be removed by owner or does it need to be included in scope of work?



**A - Correct. Refer to Finish Schedule IF-101 for rooms with window treatments.**

**Contractor is responsible for furnishing and installing Focus Rooms/Quiet Pods.**

**Refer to response to previously answered questions above.**

**Q17.** 1. bidnet direct says the sealed bid envelope must be marked "Swift Community Center Expansion." The EG ITB says the sealed bid envelope must be marked "Proposal for the Swift Community Center Expansion, East Greenwich, Rhode Island." Which one is it? 2. Both bidnet direct and the EG ITB say "Permit fees normally charged by the Town ..... are waived, however, all other permit fees, application fees, including State of RI ADA fees." Please finish these sentences. ... "must be paid."? "must be included."? Other? 3. The EG ITB item #3 says "The date of Substantial Completion is October 31, 2026." I think October 31, 2025 was mentioned at the Pre-Bid Conference on 11/20/24; please confirm the correct date.

**A - Mark sealed bid envelope "Proposal for the Swift Community Center Expansion, East Greenwich, Rhode Island."**

**A - Permit fees normally charged by the Town ..... are waived, however, all other permit fees, application fees, including State of RI ADA fees shall be the responsibility of the contractor.**

**A - The project must be substantially complete by October 31, 2026 in accordance with the grant funding. However, it is the intent to start construction this spring and be complete prior to the end of 2025.**

**Q18.** Panel PL1A circuit #18 description "DHC-1 - Corridor 229". Please confirm this should be "DHC-1 - Multi-Purpose 227" as shown on drawings E-101 and M-101. Or is there a 2nd DHC-1 unit?

**A - PL1A-18 is labeled incorrectly and should be DHC-1 - Multi-Purpose 227. This will be corrected in Addendum #1.**

**Q19.** Please confirm that elevation marks 3/A201 & 4/A-201 should be 1 & 3 respectively.

**A - There are three Exterior Elevations on Sheet A-201; Detail 1 North Elevation, Detail 2 East Elevation, Detail 3 West Elevation**

**Q20.** Please confirm that Meeting Room 232 should be labeled Hallway 232.

**A - Correct**

**Q21.** Is a builder's risk policy required, if so, will the cost be the responsibility of the owner or the GC?

**A - Builder's Risk policy is required and shall be the responsibility of the contractor.**

**Q22.** What is the anticipated start date?

**A - It is anticipated that the project be awarded at the Town Council meeting following the opening of bids. It is expected that the contractor shall start construction this Spring (2025).**



- Q23.** This project has liquidated damages. At time of award will the owner work with the contractor to establish an agreeable schedule based on long lead items, and the contractor will not be penalized by liquidated damages for any long lead items that we cannot control delivery on?  
**A - No. The date of Substantial Completion is October 31, 2026. The project must be complete to ensure grant funding. Liquidated damages shall be enforced if the project extends past this date.**
- Q24.** Will any fire review fees be paid by the owner?  
**A - Permit fees normally charged by the Town ..... are waived, however, all other permit fees, application fees, including State of RI ADA fees shall be the responsibility of the contractor. The owner will not be responsible for any permit fees that are not waived by the town.**
- Q25.** Is there an OPM on this project, if so, what is the firm?  
**A - There is no OPM associated with the project at this time.**
- Q26.** Is there an MBE goal for this project?  
**A - Yes. Adhere to the State of Rhode Island General Laws §37-14.1. See Section 00 73 00 Minority Business Enterprise Requirements and Women Business Enterprise Participation Requirements (Attached)**
- Q27.** Can you please confirm the are no allowances?  
**A - Correct. Allowances are not identified in the project.**
- Q28.** Please confirm the UOM for the masonry unit price.  
**A - The unit of measure (UOM) for the Masonry Repointing listed in the Bid Form of the Bid Document is square feet (SF)**
- Q29.** Note W2, Is the masonry restoration work to be part of the base bid or will it be paid as a change order with the unit pricing provided?  
**A - The work associated with Exterior Elevation Note W2 is to cut out and replace a total of 5 damaged bricks. Exact location to be determined in the field. This work is to be included in the base bid. Removal and replacement of individual bricks in excess of the 5 included in the base bid would be a change to the contract in accordance with the unit pricing provided in the Bid Form.**
- Q30.** Please confirm the focus room in the project manual is F&I by the owner?  
**A - No. Focus Rooms shall be furnished and installed by the Contractor.**
- Q31.** Please confirm only the bathroom is part of alternate # 1 and all the other new work shown on A101 in the existing building is part of the base bid.  
**A - Correct. Only the Toilet room is included in Alternate #1. Refer to response to previously answered in question above.**



- Q32.** Are the partitions in the existing building to be installed below the existing ACT or is the ACT to be modified for the partitions to extend to the deck?  
**A - *The existing suspended acoustical ceiling system shall be modified to accommodate the new partitions which extend to the underside of roof deck.***
- Q33.** Can you provide a specification for the exterior expansion joint materials shown on A201?  
**A - *Refer to Section 07 91 00 Exterior Wall Joint Seals (Attached.)***
- Q34.** Can you provide a specification for the air vapor barrier over the exterior wall?  
**A - *Refer to Section 07 27 00 Fully Adhered Air and Water Resistive Barriers for Air & Vapor Barrier and Closed Cell Spray Foam Insulation information. (Attached)***
- Q35.** Are we to F&I the window treatments WT-1 as shown on the finish schedule?  
**A - *Yes. Items indicated in the construction documents are the responsibility of the contractor.***
- Q36.** 3/A501 references 1/A302 for wall types, but none are shown, please advise.  
**A - *Refer to Revised Sheets A302 and A303. (Attached)***
- Q37.** Can you confirm specifications for Div 3 and 5 are per sheet S000?  
**A - *Correct. Structural specification information is provided on the drawings.***
- Q38.** Please confirm we are not to carry any underpinning in our bid per notes on S000?  
**A - *Refer to note in detail 1/S100. "Step footing as required so bottom of new footing matches bottom of existing footing (typical at 2 locations) – underpin existing wall footing as required if existing bottom is above required frost depth elevation.***
- Q39.** Are we to include engineering for CFMF as delegated design?  
**A - *The final design of the cold-formed metal framing (CFMF) construction will be delegated to the Cold Form Steel Framing Supplier (in accordance with drawing notes on Sheet S-000),***
- Q40.** Are we to install a new partition over the existing exterior brick wall at the addition or do we leave it exposed? If so, what is the partition type?  
**A - *The existing brick exterior wall shall remain exposed except at areas of wall infill at removed windows.***
- Q41.** Note 5, sheet A201. Please provide information regarding the insulated metal panel arch at the window transom? The arches are not detailed on the window schedule.  
**A - *Refer to Section 08 44 00 Insulated Metal Infill Panel (Attached.)***
- Q42.** What Veneer will be used for wood doors? There's nothing in spec. Are IMC Doors just standard flush wood doors? Can you confirm, Door 001 exterior part of door is aluminum clad interior part is veneer?  
**A - *Provide Natural Birch veneer for flush wood doors.***



- A - IMC doors are insulated metal clad exterior doors. Replace Section 08 12 13 Hollow Metal Frames with Section 08 11 13 Hollow Metal Doors and Frames. (Attached)***
- A - Correct. Refer to Section 08 14 23 Ultimate Commercial Door. Door 001 shall have an aluminum clad exterior skin and a laminated veneer lumber core interior.***

**Drawing Revisions:**

1. E-000
  - a. Added fire alarm devices to the symbol legend.
  - b. Added a Fire alarm system description.
2. ED101
  - a. Added fire alarm devices to be demolished.
3. E-101
  - a. Added new fire alarm devices.
  - b. Revised the location of the new electrical panel PL1A to the adjacent wall with the storage room.
4. E-600
  - a. Added a circuit breaker for the added NAC panel.
  - b. Revised the description of PL1A-18.
5. M-101
  - a. General notes added
6. M-500
  - a. Diffuser and return grille schedules updated to reflect drawings.

**Specification Revisions:**

1. Section 07 27 00 Fully Adhered Air and Water Resistive
  - a. Add section to Contract Documents
2. Section 00 73 00 Minority Business Enterprise Requirements and Women Business Enterprise Participation Requirements
  - a. Add section to Contract Documents
3. Section 07 91 00 Exterior Wall Joints
  - a. Add section to Contract Documents
4. Section 08 11 13 HM Doors & Frames
  - a. Add Section to Contract Documents
  - b. Omit Section 08 12 13 Hollow Metal Frames
5. Section 08 44 00 Aluminum Insulated Infill Panel
  - a. Add Section to Contract Documents

**Attachments:**

1. E-000 Electrical Cover Sheet



2. ED101 Electrical Demolition Plan
3. E-101 Electrical Plans
4. E-600 Electrical Single Line Diagram & Panel Schedule
5. M-101 Mechanical New Work Plan
6. M-500 Mechanical Schedules
2. Section 07 27 00 Fully Adhered Air and Water Resistive
6. Section 00 73 00 Minority Business Enterprise Requirements and Women Business Enterprise
7. Section 07 91 00 Exterior Wall Joints
8. Section 08 11 13 HM Doors & Frames
9. Section 08 44 00 Aluminum Insulated Infill Panel





**SECTION 00 73 00**

**MINORITY BUSINESS ENTERPRISE REQUIREMENTS AND WOMEN  
BUSINESS ENTERPRISE PARTICIPATION REQUIREMENTS**

Under Rhode Island General Laws §37-14.1, Minority business enterprises shall be included in all procurements and construction projects under this chapter and shall be awarded a minimum of fifteen percent (15%) of the dollar value of the entire procurement or project. Of that fifteen percent (15%), minority business enterprises owned and controlled by a minority owner, shall be awarded a minimum of seven and one-half percent (7.5%), and minority business enterprises owned and controlled by a woman shall be awarded a minimum of seven and one-half percent (7.5%).

The successful bidder shall report on applicable participation within ten (10) days after receipt of Notice of Award.

END OF SECTION

**SECTION 07 27 00**

**FULLY-ADHERED AIR AND WATER RESISTIVE BARRIERS**

**PART 1 GENERAL**

**1.01 GENERAL PROVISIONS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

**1.02 DESCRIPTION OF WORK**

- A. Work Included: Provide labor, materials and equipment necessary to complete the work of the Section, including but not limited to the following
  1. Fully-adhered vapor permeable and non-permeable air and water resistive barriers in exterior wall assemblies.
  2. Miscellaneous flashing, sealants, and related accessories to provide a continuous assembly and transition to adjacent materials and assemblies.

**1.03 RELATED SECTIONS**

- A. Division 04 Section for Unit Masonry
- B. Division 06 Section for Exterior Sheathing
- C. Division 07 Section for Thermal Insulation
- D. Division 07 Section for Sheet Metal Flashing and Trim

**1.04 REFERENCES**

- A. American Association of Textile Chemists and Colorists (AATCC) Test Method 127. "Water Resistance – Hydrostatic Pressure Test"
- B. American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Standard 90.1-2010 "Energy Standard for Buildings Except Low-Rise Residential Buildings"
- C. ASTM C 1305 Standard Test Method for Crack Bridging Ability of Liquid-Applied Waterproofing Membrane
- D. ASTM D 1876 Standard Test Method for Peel Resistance of Adhesive
- E. ASTM D 4541 Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers
- F. ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials
- G. ASTM E 96 Standard Test Methods for Water Vapor Transmission of Materials.
- H. ASTM E 783 Standard Test Method for Field Measurement of Air Leakage Through Installed Exterior Windows and Doors
- I. ASTM E 1105 Standard Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform or Cyclic Static Air Pressure Difference.
- J. ASTM E 1354 Standard Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter
- K. ASTM E 2178 Standard Test Method for Air Permeance of Building Materials
- L. ASTM E 2357 Standard Test Method for Determining Air Leakage of Air Barrier Assemblies
- M. National Fire Protection Association (NFPA) 285 Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components

### 1.05 DESIGN / PERFORMANCE REQUIREMENTS

- A. General: Installed product and accessories constitute a continuous air barrier, as described in ASHRAE Standard 90.1-2016 and IECC 2018. Air barrier shall be capable of performing as a continuous air barrier and as a liquid-water drainage plane flashed to discharge to the exterior incidental condensation or water penetration. Air barrier assemblies shall be capable of accommodating substrate movement and of sealing substrate expansion and control joints, construction material changes, penetrations, and transitions at perimeter conditions without deterioration and air leakage exceeding specified limits.
- B. Installed product and accessories shall exhibit an air leakage rate, infiltration and exfiltration modes, measured after pressure cycling, not to exceed 0.040 CFM/ft<sup>2</sup> at 1.57 PSF (0.2 L/s\*m<sup>2</sup> at 75 Pa) according to ASTM E 2357.
- C. Where identified as a vapor retarder, installed product and accessories shall perform as a Class I vapor retarder, installed on the predominantly warm side of the insulation.
- D. For Type I, II, III and IV construction: Installed product and accessories shall be evaluated to NFPA 285 in wall assemblies of Project.

### 1.06 SUBMITTALS

- A. Product Data: Include manufacturer's material description, data sheet, technical guide, material safety data sheets, and guide details, for each type of system to be used on the project.
- B. Shop Drawings: Show locations and extent of air barrier. Include details for substrate joints and cracks, counterflashing strip, penetrations, inside and outside corners, terminations, and tie-ins with adjoining construction.
  - 1. Include interfaces with other materials that form part of the air barrier.
  - 2. Include details of mockups.
- C. Samples for Verification: Provide two samples of product and transition flashing for each type of system to be used.
- D. Cavity Wall AVB Certification: For Type I, II, III and IV construction, submit manufacturer's third-party engineering report(s) that demonstrate the vapor permeable and non-permeable air and water resistive barrier systems, as designed in the assembly(s) indicated in the drawings, meets the acceptance criteria of NFPA 285.

### 1.07 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in production of air and water-resistive barrier assemblies of the type specified with a minimum 10 years documented experience.
- B. Installer Qualifications: Company specializing in installation of air and water-resistive barrier assemblies of the type specified with a minimum 5 years documented experience &/or 3 projects of equivalent size and scope.
- C. Source Limitations: Obtain all products and accessories through one source from a single manufacturer.
- D. Pre-installation Meetings: Conduct pre-installation meeting at the project site to comply with the requirements of Division 01. The following items shall be reviewed, but are not limited to:
  - 1. Project requirements.
  - 2. Substrate conditions.
  - 3. Manufacturer's installation instructions.
  - 4. Project specific wall assembly(s) and cladding attachment method(s).
  - 5. Temporary protection requirements during and after installation.
  - 6. Installation sequencing and coordination with adjacent trades and work.
  - 7. Required testing and inspection protocols.

- E. Cooperate and coordinate with the Owner's inspection and testing agency. Do not cover any installed Product unless it has been inspected, tested and approved.

#### **1.08 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver materials to Project site in original packages with seals unbroken, labeled with manufacturer's name, product, lot number and directions for storage.
- B. Store materials in their original undamaged packages in a clean, dry, protected location and within temperature range required by Manufacturer.
- C. Avoid spillage. Immediately notify Owner, Architect, if spillage occurs and start clean up procedures. Clean spills and leave area as it was prior to spill.

#### **1.09 PROJECT CONDITIONS**

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit installation of air and water-resistive barrier materials to be performed according to manufacturers' written instructions and warranty requirements.
- B. Observe safety and environmental measures indicated in manufacturer's MSDS, and mandated by federal, state and local regulations.

#### **1.10 WARRANTY**

- A. Provide manufacturer's standard limited material warranty.
- B. Warrant the workmanship of the installed system for a period of 2 years from the date of substantial completion against defects.

### **PART 2 PRODUCTS**

#### **2.01 MANUFACTURERS**

- A. General: Provide fully-adhered vapor permeable and non-permeable air and water resistive barriers in exterior wall assemblies including flashing, sealants, and related accessories to provide a continuous assembly and transition to adjacent materials and assemblies.
  - 1. Carlisle Coatings & Waterproofing, Inc. (CCW)
  - 2. Henry Company
  - 3. W.R. Meadows
  - 4. Or approved equal
- B. Basis of Design: Carlisle Coatings & Waterproofing (CCW)
  - 1. Local representative is PACE Representatives, located at 1 Rockdale Street; Braintree, MA 02184; Tel: 781-541-5060; Web: [www.pacerepresentatives.com](http://www.pacerepresentatives.com).

#### **2.02 FLUID-APPLIED, VAPOR RETARDING, AIR AND WATER RESISTIVE BARRIER – FIRE RESISTANT**

- A. General: Product shall consist of nominal 0.040 inch (40 mils) dry-thickness fluid-applied membrane consisting of vapor retarding fire-resistance materials and performance requirements indicated below:
  - 1. Water Resistance to Hydrostatic Pressure (AATCC 127 modified): No leakage through membrane
  - 2. Air Permeance (ASTM E2178): Not to exceed 0.004 CFM/ft<sup>2</sup> at 1.57 PSF
  - 3. Assembly Air Leakage (ASTM E2357): Not to exceed 0.040 CFM/ft<sup>2</sup> at 1.57 PSF
  - 4. Vapor Permeance (ASTM E96B): Not to exceed 1 perm
  - 5. Fastener Sealability (ASTM D1970): Pass
  - 6. Surface Burning Characteristics (ASTM E84)
    - a. Flame Spread Index: Not to exceed 25
    - b. Smoke Generation Index: Not to exceed 200
    - c. Measurement of Heat Release by Cone Calorimeter (ASTM E1354):

- 1) Effective Heat of Combustion of 8.2 MJ/kg or less
- 2) Peak heat release rate of 195 kW/m<sup>2</sup> or less
- 3) Total heat release rate of 12.9 MJ/m<sup>2</sup> or less
- d. Fire Test Performance: Meets acceptance criteria for NFPA 285, Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components as designed in the assembly(s) indicated in the drawings.

B. Basis of Design: Carlisle Coatings & Waterproofing; CCW Barritech NP

### 2.03 AUXILIARY MATERIALS

- A. General: Auxiliary materials recommended by air barrier manufacturer for intended use and compatible with air barrier. Liquid-type auxiliary materials shall comply with VOC limits of authorities having jurisdiction.
- B. Primer: Liquid waterborne or solvent-borne primer recommended for substrate by manufacturer of air barrier material.
- C. Counterflashing Strip: Modified bituminous 40-mil-thick, self-adhering sheet consisting of 32 mils of rubberized asphalt laminated to an 8-mil-thick, crosslaminated polyethylene film with release liner backing.
- D. Butyl Strip at Termination with EPDM or TPO Roofing Membrane: Vapor-retarding, 30- to 40-mil-thick, self-adhering; polyethylene-film-reinforced top surface laminated to layer of butyl adhesive, with release liner backing.
- E. Termination Mastic: Cold fluid-applied elastomeric liquid; trowel grade.
- F. Substrate Patching Membrane: Manufacturer's standard trowel-grade substrate filler.
- G. Adhesive and Tape: Air barrier manufacturer's standard adhesive and pressure-sensitive adhesive tape.
- H. Stainless-Steel Sheet: ASTM A 240/A 240M, Type 304, 0.0187 inch thick, and Series 300 stainless-steel fasteners.
- I. Sprayed Polyurethane Foam Sealant to Fill Gaps at Penetrations and Openings: one- or two-component, foamed-in-place, polyurethane foam sealant, 1.5 to 2.0 lb/cu. ft. density; flame spread index of 25 or less according to ASTM E 162; with primer and noncorrosive substrate cleaner recommended by foam sealant manufacturer.
- J. Joint Sealant: ASTM C920, single-component, neutral-curing silicone, Class 100/150 (low-modulus), Grade NS, Use NT related to exposure, and, as applicable to joint substrates indicated, Use O. Comply with Division 07 Section for Joint Sealants.
- K. Preformed Silicone-Sealant Extrusion to Seal Air Barrier Terminations with Glazing Systems: Pre-cured silicone extrusion consisting of cured low-modulus silicone extrusion, sized to fit opening widths, with manufacturer's recommended sealant for bonding extrusions to substrates.
- L. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
  1. ELBEX HS-222; Silicone Transition Sheet
  2. Dow Corning Corporation; Silicone Transition Strip
  3. Or approved equal meeting the following performance:
    - a. Tensile Strength (ASTM D412): =1000 psi
    - b. Tear Strength (ASTM D624): =200 ppi
    - c. Elongation (ASTM D412): =400%

**PART 3 EXECUTION****3.01 EXAMINATION**

- A. Examine substrates, areas, and conditions affecting installation of the air & vapor barrier and accessory products for compliance with requirements. Verify that surfaces and conditions are suitable prior to commencing Work of this section. Do not proceed with installation until unsatisfactory conditions have been corrected.
- B. Verify that wall assemblies are dried in, such that water intrusion will not occur from above, behind or around the air barrier installation.
- C. Concrete shall be cured for a minimum of seven days. It shall be smooth, with sharp protrusions such as form joints ground flush. Honeycomb and holes/cracks exceeding ¼ inch across shall be filled with grout or mortar.
- D. Surfaces shall be sound, dry and free of oil, grease, dirt, excess mortar or other contaminants.
- E. Surfaces shall be supported and flush at joints without large voids or sharp protrusions.
- F. Mortar joints shall be struck flush and shall be free of voids exceeding ¼ inch across. Mortar droppings shall be removed from brick ties and all other surfaces accepting air barrier.
- G. Sheathing boards shall be flush at joints, with gaps between boards according to building code and sheathing manufacturer's requirements. Sheathing boards shall also be securely fastened to the structure with proper fastener type, technique and spacing according to building code and sheathing manufacturer's requirements. Sheathing boards shall be repaired or replaced if inspection reveals moisture damage, mechanical damage or if sheathing boards have exceeded the exposure duration or exposure conditions as required by the sheathing manufacturer.
- H. Plywood, OSB, lumber or pressure-treated wood moisture content, measured with a wood moisture meter in the core of the substrate, shall be below 20%.
- I. Inform Architect [Consultant] [Owner] in writing of
  - 1. Cracks in concrete and masonry.
  - 2. Gaps or obstructions such as steel beams, angles, plates and projections which cannot be spanned or covered by Product or Accessories.
  - 3. Anticipated problems applying Product and Accessories over substrate.

**3.02 PREPARATION**

- A. Fill cracks, gaps and joints exceeding ¼ inch width with fill compound or polyurethane sealant.
- B. Fill rough gaps around pipe, conduit and similar penetrations with mortar, non-shrink grout, fill compound or polyurethane foam sealant shaved flush.
- C. Apply a ¾ inch cant of fill compound at the intersection of the base of the wall and the footing.

**3.03 INSTALLATION**

- A. Apply product over opaque wall surfaces as indicated in Project drawings.
- B. Allow sealants used during surface preparation to cure fully before applying product.
- C. Apply contact adhesive to all surfaces accepting product, according to manufacturer's instructions.
- D. Apply product to prepared surfaces according to manufacturer's instructions and drawings.
- E. Sequence installation to provide shingled laps. Lap neighboring sheets 2 inches minimum.
- F. Install detail flashing or transition membrane according to manufacturer's drawings and instructions at expansion joints, seismic joints, mechanical/electrical penetrations and similar conditions.

- G. Install detail mastic, polyurethane sealant or silicone sealant covering non-water shedding laps, penetrations and similar surface defects.

#### **3.04 SCHEDULE & SEQUENCING**

- A. Wall substrates and roof or temporary roof shall be in place, effectively enclosing interior space before proceeding with air barrier installation
- B. Seal penetrations made through installed product according to manufacturer's instructions and drawings.
- C. Seal fenestration to product with detail membrane, transition membrane, polyurethane sealant, silicone sealant or polyurethane foam sealant according to Project drawings
- D. Through-wall flashing may be installed before or after product. Seal termination of metal through-wall flashing to product with 6 inch width detail flashing.
- E. Cladding shall be installed after product.
- F. Rigid or semi-rigid insulation installed over product shall be attached with insulation adhesive and mechanical fastening according to insulation manufacturer and air barrier manufacturer's instructions.
- G. Sequence Work to enable air barrier continuity at wall-to-foundation, shelf angle, wall-to-roof, fenestration, different wall assemblies and other conditions providing challenges to air barrier continuity.

#### **3.05 CLEANING AND PROTECTION**

- A. Protect from damage during application and remainder of construction period.
- B. Inspect before covering. Repair or replace damaged material according to Manufacturer's instructions and drawings.
- C. Product and accessories are not designed for permanent exposure. Cover with insulation or exterior cladding as soon as schedule allows.
- D. Outdoor exposure of installed product and accessories shall not exceed 180 days.

**END OF SECTION**

**SECTION 07 91 00****EXTERIOR WALL JOINT SEALS****PART 1 GENERAL****1.1 SUMMARY**

- A. Section Includes:
  - 1. Preformed, precompressed, expanding foam joint seals for expansion joints in exterior walls.
- B. Related Sections:
  - 1. Division 01: Administrative, procedural, and temporary work requirements.
  - 2. Section 07 92 00 - Joint Sealants.

**1.2 ADMINISTRATIVE REQUIREMENTS**

- A. Pre-Installation Conference:
  - 1. Convene at Project site 2 weeks prior to beginning work of this Section.
  - 2. Attendance: Architect, Contractor, Construction Manager, joint seal installer, and related trades
  - 3. Review and discuss:
    - a. Joint seal manufacturer's requirements, project conditions, allowable structural movement at joints, and protection of completed work.
    - b. Transitions in plane and direction, and requirement for continuity of seal through watertight transitions from wall expansion joint to other interfacing expansion joint systems at adjacent construction.

**1.3 SUBMITTALS**

- A. Action Submittals:
  - 1. Shop Drawings:
    - a. Indicate joint locations, dimensions, and adjacent construction.
    - b. Provide details for transitions in plane and direction for continuity of seal through watertight transitions from wall expansion joint to other interfacing expansion joint systems at adjacent construction.
  - 2. Product Data: Material description and application instructions.
  - 3. Samples:
    - a. Minimum 2 x 2 inch joint seal samples showing available colors.
    - b. Minimum 6 inch long samples of each joint seal.
- B. Informational Submittals:
  - 1. Manufacturer's certification that:
    - a. Products are capable of withstanding temperature of 150 degrees F (65 degrees C) for 3 hours while compressed to minimum of movement capability dimension without evidence of bleeding of impregnation medium from material.
    - b. Same material after heat stability test and after cooling to room temperature will self-expand to maximum of movement capability dimension within 24 hours at 68 degrees F (20 degrees C).
- C. Sustainable Design Submittals: Refer to Division 01.

**1.4 QUALITY ASSURANCE**

- A. Manufacturer Qualifications:
  - 1. Minimum 10 years experience in production of specified materials.



- B. Installer Qualifications: Minimum 2 years experience in work of this Section.

## 1.5 DELIVERY, STORAGE AND HANDLING

- A. In accordance with manufacturer's instructions.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Contract Documents are based on products by Sika Emseal, 800-526-8365, [www.emseal.com](http://www.emseal.com).
- B. Substitutions: Refer to Division 01.

### 2.2 MATERIALS

- A. Exterior Wall Joint Seal:
  - 1. Source: Emshield WFR2 by Sika Emseal.
  - 2. Description: Silicone coated, ultraviolet resistant, dual-faced, fire-rated, watertight primary wall seal.
  - 3. Form: Precompressed to less than design joint size, packaged in shrink-wrap packaging.
  - 4. Fire protection rating: 2 hours, tested to UL 2079.
  - 5. Movement capability: Plus and minus 50% (total 100%) of nominal material size.
  - 6. R-value: 1.03 per inch depth at nominal joint size compression, tested to ASTM C518.
  - 7. STC rating: 62 in STC 68 wall, tested to ASTM E90.
  - 8. OITC rating: 52 in OITC 52 wall, tested to ASTM E90.
  - 9. Air permeability: Maximum 0.02 liter per second per square meter, tested to ASTM E283 at 75 Pa.
  - 10. Water penetration: No water penetration, tested to ASTM E331 at 5000 Pa test pressure.
  - 11. Wind loading: No deflection, tested to ASTM E330 at 4954 Pa or 200 MPH wind.
  - 12. VOC Emissions: CDPH-1.2-2017: Pass
  - 13. Color: To be selected from manufacturer's full color range.
  - 14. Adhesive: Epoxy type, furnished by joint seal manufacturer.
  - 15. Silicone: Field applied corner bead at face of seal to substrate interface, furnished by joint seal manufacturer, in same material and color as used in factory coating.
    - a. Abrasion Resistance: Less than 1% weight loss, tested to ASTM D4060
    - b. Fuel Resistance: Pass, tested to ASTM C719/C1135
  - 16. Intumescent Sealant: Field applied to face of joints, furnished by joint seal manufacturer.

## PART 3 EXECUTION

### 3.1 PREPARATION

- A. Clean joints thoroughly; remove loose and foreign matter that could impair adhesion or performance.

### 3.2 INSTALLATION

- A. Install joint seal in accordance with Sika Emseal instructions and approved Shop Drawings.
- B. Remove joint seal from precompressed packaging, immediately insert into joint, and allow to expand.
- C. Use temporary retainers if required to maintain joint seals in position until expansion is complete.

END OF SECTION

**SECTION 08 11 13**  
**HOLLOW METAL DOORS AND FRAMES**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Non-fire-rated steel door frames.
- B. Non-fire-rated steel doors.
- C. Steel frames for wood doors.
- D. Fire-rated steel doors and frames.
- E. Thermally insulated hollow metal doors with frames.

**1.02 RELATED REQUIREMENTS**

- A. Section 01 61 16 - Volatile Organic Compound (VOC) Content Restrictions.
- B. Section 01 78 39 - Construction Waste Management and Disposal: Limitations on disposal of removed materials; requirements for recycling.
- C. Section 08 71 00 - Door Hardware.
- D. Section 08 80 00 - Glazing: Glass for doors and borrowed lites.
- E. Section 09 90 00 - Painting and Coating: Field painting.

**1.03 REFERENCE STANDARDS**

- A. ADA Standards - 2010 ADA Standards for Accessible Design; 2010.
- B. ANSI/ICC A117.1 - American National Standard for Accessible and Usable Buildings and Facilities; International Code Council; 2009.
- C. ANSI/SDI A250.8 - Specifications for Standard Steel Doors and Frames (SDI-100); 2023.
- D. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames; 2020.
- E. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.
- F. ASTM A1008/A1008M - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Required Hardness, Solution Hardened, and Bake Hardenable; 2021a.
- G. ASTM A1011/A1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength; 2023.
- H. ASTM C143/C143M - Standard Test Method for Slump of Hydraulic-Cement Concrete; 2020.
- I. ASTM C476 - Standard Specification for Grout for Masonry; 2023.
- J. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023c.
- K. BHMA A156.115 - Hardware Preparation in Steel Doors and Frames; 2016.
- L. DHI A115 Series - Specifications for Steel Doors and Frame Preparation for Hardware; Door and Hardware Institute; 2000 (ANSI/DHI A115 Series).
- M. NAAMM HMMA 840 - Guide Specifications for Receipt, Storage and Installation of Hollow Metal Doors and Frames; 2024.
- N. NAAMM HMMA 861 - Guide Specifications for Commercial Hollow Metal Doors and Frames; 2014.

#### **1.04 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Materials and details of design and construction, hardware locations, reinforcement type and locations, anchorage and fastening methods, and finishes; and one copy of referenced grade standard.
- C. Shop Drawings: Details of each opening, showing elevations, glazing, frame profiles, and identifying location of different finishes, if any.
- D. Samples: Submit two samples of metal, 2 x 2 inches in size showing factory finishes, colors, and surface texture.
- E. Installation Instructions: Manufacturer's published instructions, including any special installation instructions relating to this project.
- F. Manufacturer's Certificate: Certification that products meet or exceed specified requirements.
- G. North East Collaborative for High Performance Schools (NECHPS) Submittals: Items necessary to document use of sustainable construction materials, products, and practices.

#### **1.05 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum ten years documented experience.
- B. Installer Qualifications: Company specializing in performing work of the type specified and with at least five years of documented experience.
- C. Maintain at the project site a copy of all reference standards dealing with installation.

#### **1.06 DELIVERY, STORAGE, AND HANDLING**

- A. Store in accordance with NAAMM HMMA 840.
- B. Protect with resilient packaging; avoid humidity build-up under coverings; prevent corrosion.

### **PART 2 PRODUCTS**

#### **2.01 MANUFACTURERS**

- A. Steel Door Frames:
  - 1. Ceco Door, an Assa Abloy Group company; \_\_\_\_\_: [www.assaabloydss.com/#sle](http://www.assaabloydss.com/#sle).
  - 2. Assa Abloy Ceco, Curries, or Fleming: [www.assaabloydss.com/#sle](http://www.assaabloydss.com/#sle).
  - 3. Mesker, dormakaba Group: [www.meskeropeningsgroup.com/#sle](http://www.meskeropeningsgroup.com/#sle).
  - 4. Republic Doors, an Allegion brand: [www.republicdoor.com/#sle](http://www.republicdoor.com/#sle).
  - 5. Steelcraft, an Allegion brand; \_\_\_\_\_: [www.allegion.com/#sle](http://www.allegion.com/#sle).
  - 6. Steelcraft: [www.steelcraft.com](http://www.steelcraft.com).
  - 7. Phillip Manufacturing Company
  - 8. Substitutions: See Section 01 60 00 - Product Requirements.

#### **2.02 DOORS AND FRAMES**

- A. Requirements for All Door Frames:
  - 1. Steel Sheet: Comply with one or more of the following requirements; galvanized steel complying with ASTM A653/A653M, cold-rolled steel complying with ASTM A1008/A1008M, or hot-rolled pickled and oiled (HRPO) steel complying with ASTM A1011/A1011M, commercial steel (CS) Type B, for each.
  - 2. Accessibility: Comply with ANSI/ICC A117.1.
  - 3. Exterior Door Top Closures: Flush end closure channel, with top and door faces aligned.
  - 4. Door Edge Profile: Manufacturers standard for application indicated.
  - 5. Finish: Factory primed, for field finishing.

**2.03 STEEL DOORS**

- A. Exterior Doors :
  - 1. Grade: ANSI A250.8 Level 3, physical performance Level A, Model 1, full flush.
  - 2. Core: Polyurethane.
    - a. Foam Plastic Insulation: Manufacturer's standard board insulation with maximum flame spread index (FSI) of 75, and maximum smoke developed index (SDI) of 450 in accordance with ASTM E84, and completely enclosed within interior of door.
  - 3. Door Thermal Resistance: R-Value of 6.0 minimum, for installed thickness of polystyrene.
  - 4. Door Thickness: 1-3/4 inches, nominal.
  - 5. Top Closures for Outswinging Doors: Flush with top of faces and edges.
  - 6. Galvanizing: All components hot-dipped zinc-iron alloy-coated (galvannealed) in accordance with ASTM A653/A653M, with A60/ZF180 coating.
  - 7. Texture: Smooth faces.
  - 8. Weatherstripping: Separate, see Section 08 71 00.
  - 9. Glazing: Seperate, see Section 08 80 00.
  - 10. Finish: Factory primed, for field finishing.
- B. Interior Doors, Fire-Rated:
  - 1. Fire Rating: As indicated on Door and Frame Schedule, As indicated on drawings, 1-1/2 hours tested in accordance with UL 10C ("positive pressure"), UL 10B or NFPA 252 ("neutral pressure").
    - a. Provide units listed and labeled by UL or WH.
    - b. Attach fire rating label to each fire rated unit.
  - 2. Core: Mineral fiberboard.
  - 3. Door Thickness: 1-3/4 inches, nominal.
  - 4. Texture: Smooth faces.
  - 5. Finish: Factory primed, for field finishing.

**2.04 STEEL FRAMES**

- A. General:
  - 1. Comply with the requirements of grade specified for corresponding door.
    - a. Frames for Wood Doors: Comply with frame requirements specified in ANSI A250.8 for Level 1, 16 gage
  - 2. Finish: Factory primed, for field finishing.
  - 3. Frames Wider than 48 Inches: Reinforce with steel channel fitted tightly into frame head, flush with top.
- B. Exterior Door Frames: Fully welded.
  - 1. Galvanizing: All components hot-dipped zinc-iron alloy-coated (galvannealed) in accordance with ASTM A653/A653M, with A60/ZF180 coating.
  - 2. Frame Metal Thickness: 16 gage, 0.053 inch, minimum.
  - 3. Finish: Factory primed, for field finishing.
  - 4. Weatherstripping: Integral, recessed into door edge or frame.
- C. Interior Door Frames, Non-Fire-Rated: Fully welded type.
  - 1. Frame Metal Thickness: 16 gage, 0.053 inch, minimum.
  - 2. Finish: Factory primed, for field finishing.
- D. Door Frames, Fire-Rated: Full profile/continuously welded type.
  - 1. Fire Rating: Same as door, labeled.
  - 2. Terminated Stops: Provide at interior doors; closed end stop terminated 6 inch, maximum, above floor at 45 degree angle.
  - 3. Frame Metal Thickness: 16 gage, 0.053 inch, minimum.
  - 4. Finish: Factory primed, for field finishing.

- E. Frames for Wood Doors: Comply with frame requirements in accordance with corresponding door.
- F. Mullions for exterior Pairs of Doors: Removable type, with profile similar to jambs.
- G. Provide mortar guard boxes for hardware cut-outs in frames to be installed in masonry or to be grouted.
- H. Frames in Masonry Walls: Size to suit masonry coursing with head member 4 inch high to fill opening without cutting masonry units.

## **2.05 FINISHES**

- A. Primer: Rust-inhibiting, complying with ANSI/SDI A250.10, door manufacturer's standard.
- B. Bituminous Coating: Cold-applied asphalt mastic, compounded for 15 mil, 0.015 inch dry film thickness (DFT) per coat; provide inert-type noncorrosive compound free of asbestos fibers, sulfur components, and other deleterious impurities.
  - 1. Fire-Rated Frames: Comply with fire rating requirements indicated.

## **2.06 ACCESSORY MATERIALS**

- A. Glazing: As specified in Section 08 80 00, factory installed.
- B. Astragals for Double Doors: Specified in Section 08 71 00.
  - 1. Exterior Doors: Steel, Z-shaped.
  - 2. Fire-Rated Doors: Steel, shape as required for fire rating.
- C. Grout for Frames: Mortar grout complying with ASTM C476 with maximum slump of 4 inches as measured in accordance with ASTM C143/C143M for hand troweling in place; plaster grout and thinner pumpable grout are prohibited.
- D. Silencers: Resilient rubber or vinyl, fitted into drilled hole; 3 on strike side of single door, 3 on center mullion of pairs, and 2 on head of pairs without center mullions.
- E. Temporary Frame Spreaders: Provide for all factory- or shop-assembled frames.

## **2.07 FINISH MATERIALS**

- A. Primer: Rust-inhibiting, complying with ANSI A250.10, door manufacturer's standard, baked on.
- B. Bituminous Coating: Asphalt emulsion or other high-build, water-resistant, resilient coating.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify existing conditions before starting work.
- B. Verify that opening sizes and tolerances are acceptable.
- C. Verify that finished walls are in plane to ensure proper door alignment.

### **3.02 PREPARATION**

- A. Coat inside of frames to be installed in masonry or to be grouted, with bituminous coating, prior to installation. 8 mil D.F.T.

### **3.03 INSTALLATION**

- A. Install doors and frames in accordance with manufacturer's instructions and related requirements of specified door and frame standards or custom guidelines indicated.
- B. Install fire rated units in accordance with NFPA 80.
- C. Coordinate frame anchor placement with wall construction.
- D. Grout frames in masonry construction, using hand trowel methods; brace frames so that pressure of grout before setting will not deform frames.
- E. Coordinate installation of hardware.

- F. Comply with glazing installation requirements of Section 08 80 00.
- G. Coordinate installation of electrical connections to electrical hardware items.
- H. Touch up damaged factory finishes.

**3.04 TOLERANCES**

- A. Maximum Diagonal Distortion: 1/16 in measured with straight edge, corner to corner.

**3.05 ADJUSTING**

- A. Adjust for smooth and balanced door movement.

**3.06 SCHEDULE - SEE DRAWINGS**

**END OF SECTION**

# **SECTION 08 44 00**

## **INSULATED METAL INFILL PANEL**

### **PART 1 – GENERAL**

#### **1.1 RELATED DOCUMENTS**

- A. The drawings and provisions of the General Conditions, and the sections included under Division 1 specification sections, apply to this section

#### **1.2 SUMMARY**

- A. This section includes insulated metal infill panels that are used as the exterior and interior cladding

#### **1.3 PERFORMANCE REQUIREMENTS**

- A. Design panel system to accommodate tolerance of plus or minus 1/16” in overall panel thickness and plus or minus 1/8” in any direction
- B. Structural Performance: provide exterior and interior wall cladding assemblies to meet effects of load and stresses from wind loads

#### **1.4 SUBMITTALS**

- A. Product Data: Manufacturer’s product literature
- B. Manufacturer’s standard color charts
- C. Finish Samples: submit color samples for final approval
- D. Shop Drawings: submit shop drawings showing plans, sections and details

#### **1.5 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Minimum of five years experience in manufacturing of metal wall panel products
- B. Installer Qualifications: Acceptable to manufacturer

#### **1.6 DELIVERY, STORAGE AND HANDLING**

- A. Delivery: deliver metal panels in manufacturer’s crates packed for long haul transit
- B. Storage: store materials in a dry and safe area
- C. Handling: handle materials to avoid any damage to materials and finishes

#### **1.7 WARRANTY**

- A. The contractor must warrant the materials to be free of defects in accordance with the general conditions. Finish warranty shall be extended by paint manufacturer’s standard warranty

## **PART 2 – PRODUCTS**

### **2.1 MANUFACTURER**

- A. Americlad, LLC 21925 Industrial Boulevard, Rogers, Minnesota 55374, Telephone: (866) 260-4047, [www.americlad.com](http://www.americlad.com)
  - 1. AC-4000 Insulated Metal Infill Panel System (one inch five ply panel)
- B. Substitutions: Refer to Section 01 60 00 – Product Requirements

### **2.2 MATERIALS**

- A. Aluminum Sheet: ASTM B209, Aluminum Association specification 3003-H14/3105-H14/5052-H32 for painted finishes
- B. Thickness: 1" (one inch) overall thickness
- C. Exterior Skin shall be aluminum sheet. Color shall be selected by architect from manufacturer's full line of color selections.
- D. Stabilizer sheet under both faces shall be 1/8" thick
- E. Core shall be 2.5# density Expanded Polystyrene Foam or Polyisocyanurate Foam
- F. Interior Skin shall be aluminum sheet. Color shall be selected by architect from manufacturer's full line of color selections.

### **2.3 FABRICATION**

- A. Tolerances
  - 1. Width and Length to be plus or minus 1/8"
  - 2. Thickness to be plus or minus 1/16"
- B. Panel surfaces shall be free from defects, scratches or marks caused during fabrication

### **2.4 ACCESSORIES**

- A. Installer shall supply all materials required for installation

### **2.5 FINISHES**

- A. Paint:
  - 1. Coating shall be a Spray Applied Fluorocarbon Resin Utilizing a 70% Kynar 500/Hylar 5000 resin
  - 2. Color as selected by from paint manufacturer's standard colors or Custom color as specified
  - 3. Material to be painted in accordance with either AAMA specification 2605 or 2604



## **PART 3 – EXECUTION**

### **3.1 PREPARATION**

- A. Coordinate drawings, diagrams, and instructions for installation

### **3.2 INSTALLATION**

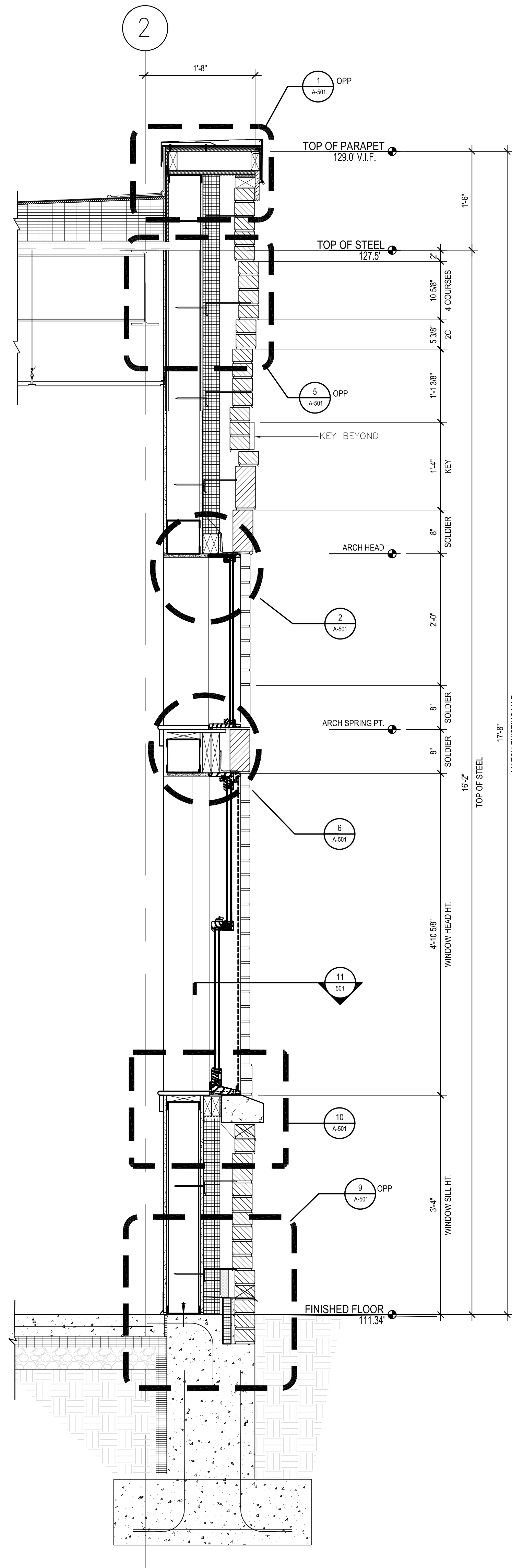
- A. Setting blocks should be at quarter points of each panel and in a width equal or larger than the panel thickness
- B. Panels to be sealed with Class A grade sealants
- C. Weep holes for frame assemblies to accommodate proper draining
- D. The entire panel perimeter should be engaged into the framing system to allow a minimum of 5/8"
- E. A minimum of 1/4" of clearance must be maintained around the panel perimeter

### **3.3 CLEANING AND PROTECTION**

- A. Clean exposed surfaces after installation per manufacturer's recommendation
- B. Touch up minor abrasions in finish with touch up paint supplied by finish applicator.

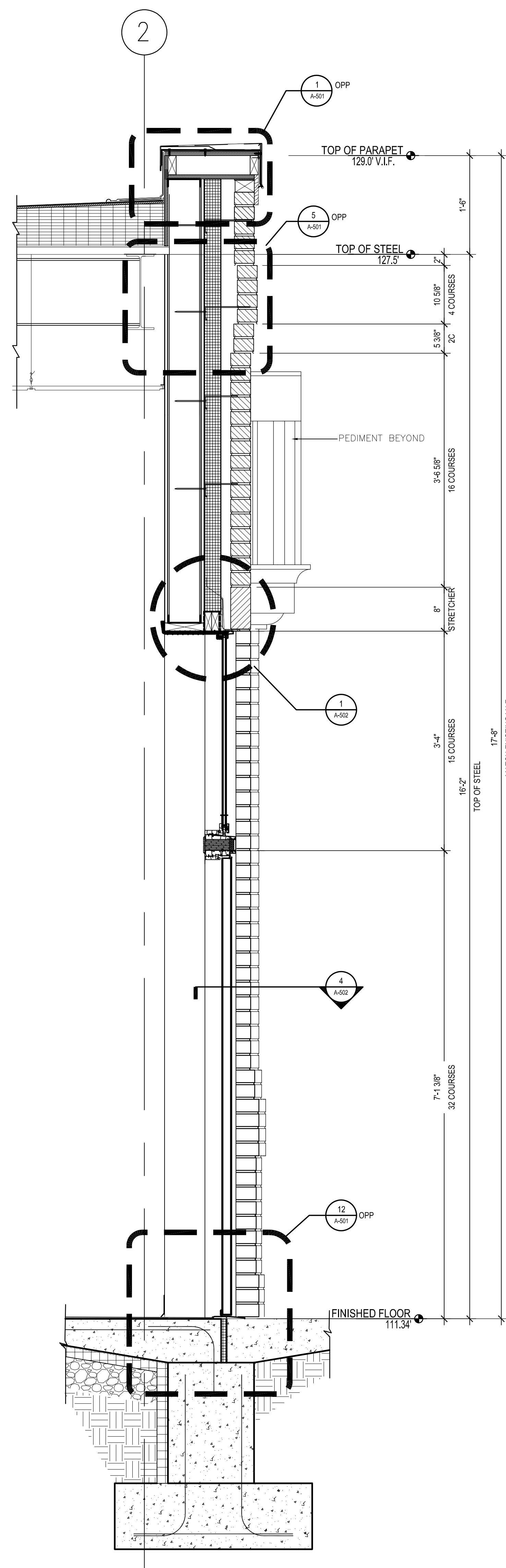
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- TYPICAL EXTERIOR WALL CONSTRUCTION**
- BRICK VENEER
  - AIR GAP
  - CONT. RIGID INSULATION - R18.6 MIN
  - AIR & VAPOR BARRIER MEMBRANE - SPRAY APPLICATION
  - 5/8" FIBERGLASS FACED EXTERIOR GYPSUM SHEATHING
  - 6" CFMF STUDS @ 16" O.C.
  - 5/8" TYPE 'X' GYP. BD.
  - MASONRY TIES @ 16" O.C. VERT. & HORIZ.

1 WALL SECTION @ BRICK ARCH & WINDOW A1  
A-303 SCALE: 1" = 1'-0"



2 WALL SECTION @ DOOR 001  
A-303 SCALE: 1" = 1'-0"

- TYPICAL FLOOR CONSTRUCTION**
- CAST IN PLACE CONCRETE SLAB ON GRADE.
  - RE: S-DWGS
  - 15 MILS UNDER SLAB VAPOR BARRIER @ INTERIOR SLAB ONLY
  - 6" COMPACTED GRAVEL - SEE STRUCTURAL
  - R10 FOUNDATION INSULATION FOR 24" VERTICAL AND 48" HORIZONTAL
  - FINISH FLOOR AS SCHEDULED

3 WALL SECTION, TYPICAL EXTERIOR WALL  
A-303 SCALE: 1" = 1'-0"



CONSULTANT

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 SIGNATURE: \_\_\_\_\_  
 DATE OF SIGNATURE: \_\_\_\_\_  
 DATE OF REGISTRATION EXPIRATION: \_\_\_\_\_  
 ARCHITECT / ENGINEER SEAL

PROJECT  
**TOWN OF EAST GREENWICH**  
 SWIFT COMMUNITY CENTER EXPANSION  
 SWIFT COMMUNITY CENTER  
 121 PERCE STREET  
 EAST GREENWICH RI 02818

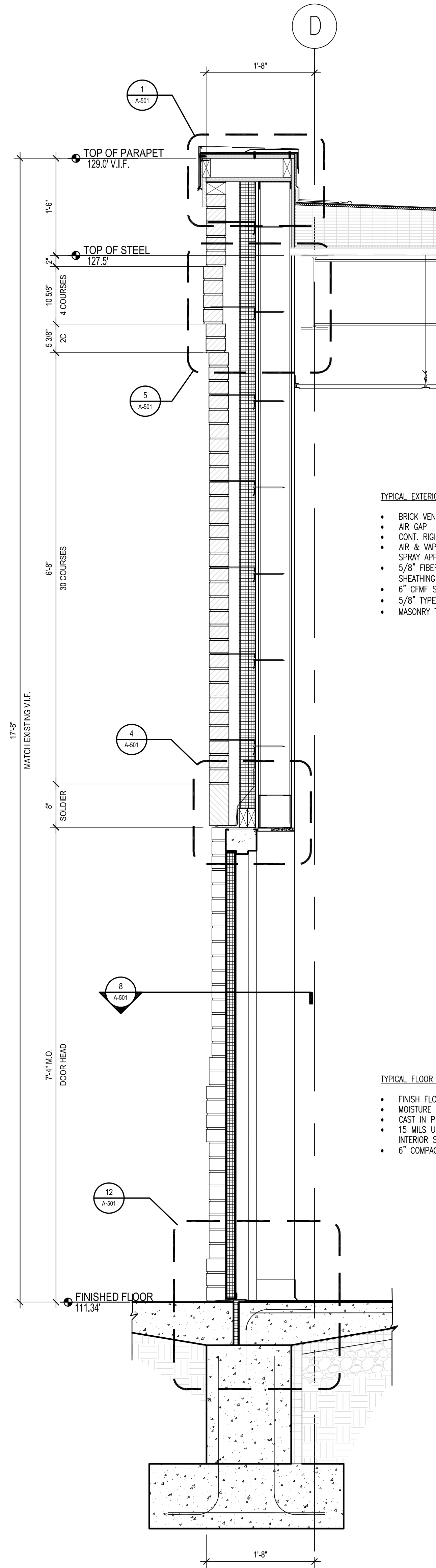
REVISIONS		
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SHEET TITLE  
**WALL SECTIONS**

ISSUED FOR  
 BID  
 NOVEMBER 6, 2024  
 DRAWN: CB    CHKD: PC    PROJECT NO.: 24065  
 SHEET NO.

**A-303**

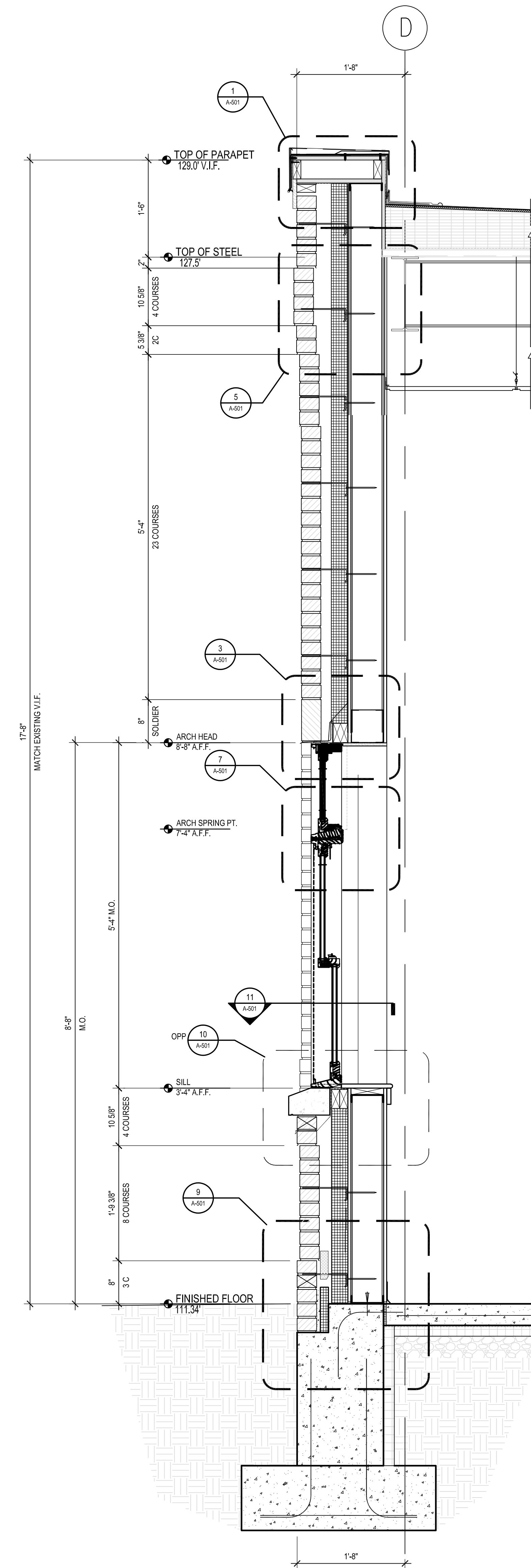
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- TYPICAL EXTERIOR WALL CONSTRUCTION**
- BRICK VENEER
  - AIR GAP
  - CONT. RIGID INSULATION - R18.6 MIN
  - AIR & VAPOR BARRIER MEMBRANE - SPRINT APPLICATION
  - 5/8\"/>

- TYPICAL FLOOR CONSTRUCTION**
- FINISH FLOOR AS SCHEDULED
  - MOISTURE MITIGATION SYSTEM - SEE SPEC
  - CAST IN PLACE CONCRETE - SEE SPEC
  - 15 MILS UNDER SLAB VAPOR BARRIER @ INTERIOR SLAB
  - 6\"/>

1 WALL SECTION @ SIDE DOOR  
A-302 SCALE: 1" = 1'-0"



2 WALL SECTION @ SIDE WINDOW  
A-302 SCALE: 1" = 1'-0"

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 DATE OF SIGNATURE: \_\_\_\_\_  
 DATE OF REGISTRATION EXPIRATION: \_\_\_\_\_  
 ARCHITECT / ENGINEER SEAL

PROJECT  
**TOWN OF EAST GREENWICH**  
 SWIFT COMMUNITY CENTER EXPANSION  
 SWIFT COMMUNITY CENTER  
 121 PERCE STREET  
 EAST GREENWICH RI 02818

REVISIONS

MARK	DESCRIPTION	DATE

SHEET TITLE  
**WALL SECTIONS**  
 ISSUED FOR BID  
 NOVEMBER 6, 2024  
 DRAWN: - CHKD: - PROJECT NO.: 24065  
 SHEET NO.: **A-302**

ELECTRICAL SYMBOL LEGEND

Table with 2 columns: Symbol, Description. Includes Power Devices like Receptacles, Duplex, Quadruplex, and Junction Boxes.

Lighting Controls

Table with 2 columns: Symbol, Description. Includes various switches (1P, 3P, 4W, MS, MS, FP) and sensors.

Communication Devices

Table with 2 columns: Symbol, Description. Includes outlets for Data, Video, Camera, Telephone, and Wireless Access.

Fire Alarm Devices

Table with 2 columns: Symbol, Description. Includes Fire Alarm Control Panel, Notification Appliance Circuit Panel, Manual Station, and Smoke Detectors.

ELECTRICAL GENERAL NOTES

- 1. PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, COORDINATION, ADDITIONAL DESIGN AND ALL INCIDENTALS NECESSARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM AS DETAILED ON PLANS TO THE SATISFACTION OF THE ENGINEER AND THE OWNER. COORDINATE ALL WORK WITH THE ENGINEER BEFORE THE START OF WORK.
2. PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL VISIT THE SITE AND BE THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS AND PROPOSED CONSTRUCTION...

FIRE ALARM SYSTEM:

PROVIDE NEW FIRE ALARM SYSTEM DEVICES AND CONNECT TO EXISTING FIRE ALARM SYSTEM (MIRCOM FIRE ALARM CONTROL - FX-2000). ALL NEW DEVICES AND WIRING SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. PROVIDE REQUIRED TESTING AND INSPECTION AS REQUIRED BY STATE OF RHODE ISLAND FIRE MARSHAL'S OFFICE.

TELECOMMUNICATION GENERAL NOTES

- 1. ALL LOW VOLTAGE CABLING MUST BE INSTALLED ACCORDING TO BICSI GUIDELINES.
2. ALL CABLING SHALL CONFORM TO THE LATEST EDITION OF THE EIA/TIA STANDARDS.
3. ALL CABLING SHALL BE APPROPRIATELY LABELED.
4. CONTRACTOR SHALL NOT INSTALL ANY EQUIPMENT PRIOR TO ITS APPROVAL BY THE ARCHITECT AND ENGINEER. CONTRACTOR WILL BE LIABLE FOR ITS REMOVAL IN ANY SUCH CASE.

GRAPHIC CONVENTIONS

Graphic Conventions section containing Wiring Devices, Disconnects, Lighting Fixtures, and Lighting Switches symbols and descriptions.

ELECTRICAL ABBREVIATIONS

Table with 2 columns: Abbreviation, Definition. Lists symbols for equipment to be demolished, equipment to remain, and various electrical components like Amps, Frame, Floor, Trip, Switch, etc.

LIGHTING FIXTURE SCHEDULE

Table with 6 columns: Type, Lamps, Voltage, Mount, Fixture Description, Manufacturer/Catalog Number, Remarks. Lists fixtures like 2X2 Flat Panel, 6" Round Downlight, etc.

STUDIO JAED ARCHITECTS & ENGINEERS logo and contact information including address, phone, and website.

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ARCHITECT / ENGINEER SEAL

PROJECT INFORMATION: TOWN OF EAST GREENWICH, SWIFT COMMUNITY CENTER EXPANSION, SWIFT COMMUNITY CENTER, 121 PERCE STREET, EAST GREENWICH RI 02818

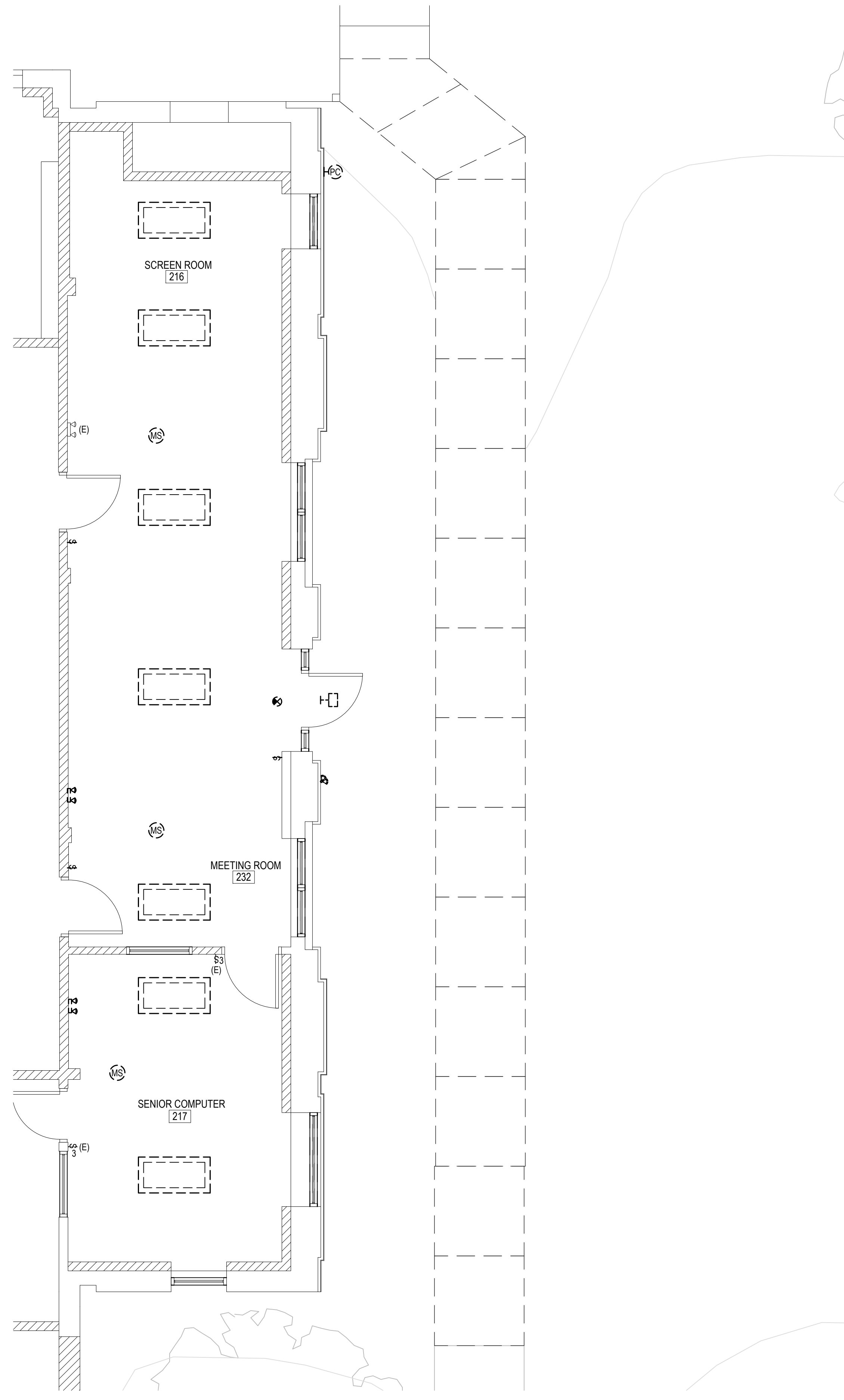
REVISIONS table with columns: MARK, DESCRIPTION, DATE. Shows one revision: 1, ADDENDUM #1, 12/6/24.

SHEET TITLE: ELECTRICAL COVER SHEET

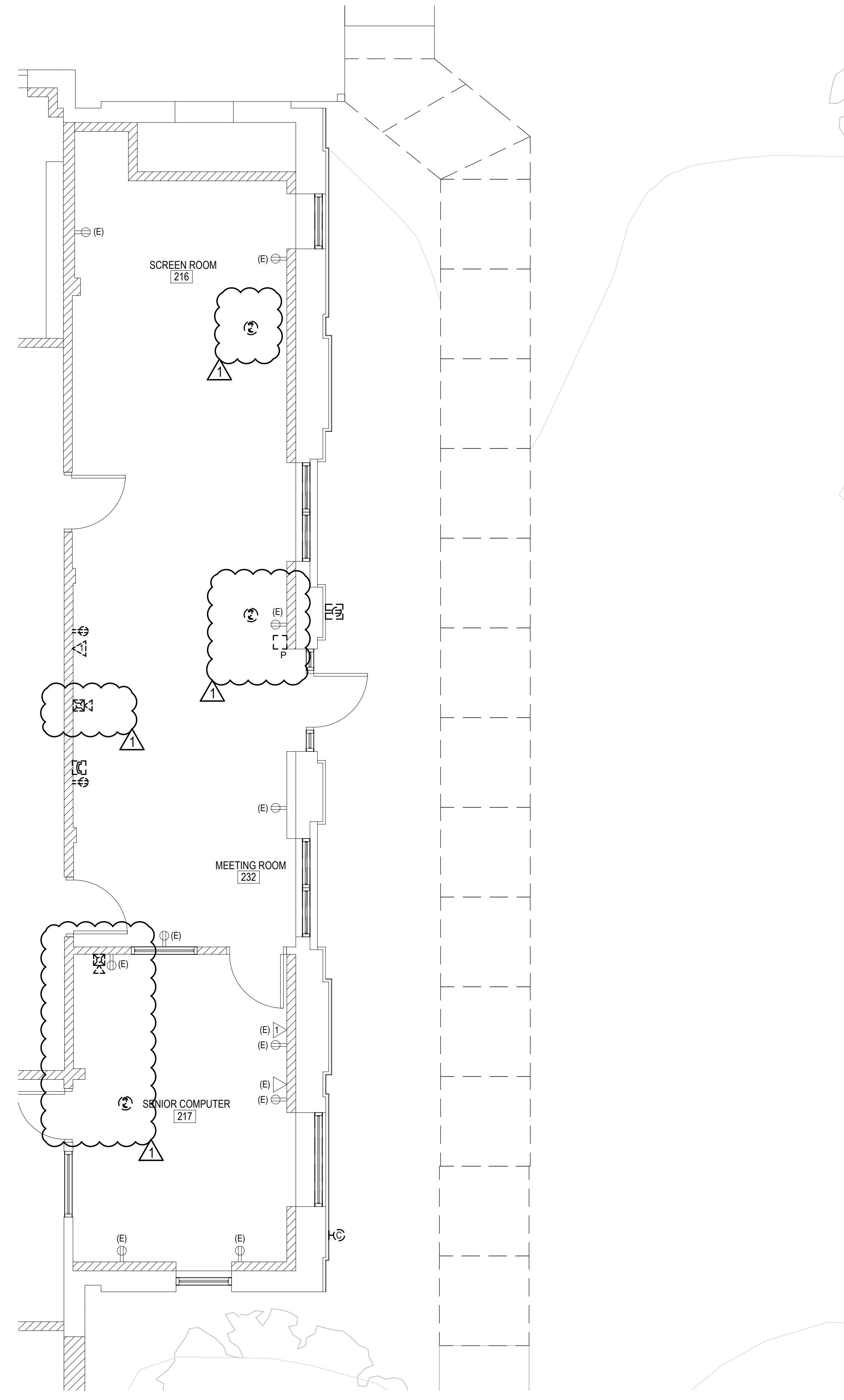
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DRAWN: JD, CHKD: PP, PROJECT NO: 24065
SHEET NO: E-000

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1 ELECTRICAL LIGHTING DEMOLITION PLAN  
ED101 SCALE: 1/4" = 1'-0"



2 ELECTRICAL POWER DEMOLITION PLAN  
ED101 SCALE: 1/4" = 1'-0"

- ELECTRICAL DEMOLITION NOTES:**
- UNLESS NOTED OTHERWISE, DISCONNECT AND REMOVE LIGHT FIXTURES, WIRE, AND CONDUIT TO FACILITATE ARCHITECTURAL WORK. RETAIN FIXTURES AND CIRCUIT(S) FOR RELOCATION AND RECONNECTION.
  - UNLESS NOTED OTHERWISE, DISCONNECT AND REMOVE LIGHTING CONTROLS, WIRE, AND CONDUIT TO FACILITATE ARCHITECTURAL WORK.
  - DISCONNECT AND REMOVE TELEPHONE AND ASSOCIATED CABLING / OUTLET COMPLETELY BACK TO SOURCE. TURN TELEPHONE OVER TO OWNER.
  - UNLESS NOTED OTHERWISE, DISCONNECT AND REMOVE RECEPTACLES, DATA OUTLETS, WIRE, CABLING, AND CONDUIT COMPLETELY BACK TO SOURCE.
  - DISCONNECT AND REMOVE CAMERA AND CABLING COMPLETELY BACK TO SOURCE. RETAIN CAMERA FOR RELOCATION.
  - DISCONNECT AND REMOVE TELEPHONE, VOICE OUTLET, AND CABLING COMPLETELY BACK TO SOURCE. RETAIN TELEPHONE FOR REINSTALLATION / RELOCATION.



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PROJECT

TOWN OF EAST GREENWICH  
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SWIFT COMMUNITY CENTER  
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REVISIONS		
MARK	DESCRIPTION	DATE
1	ADDENDUM #1	12/24/24

SHEET TITLE

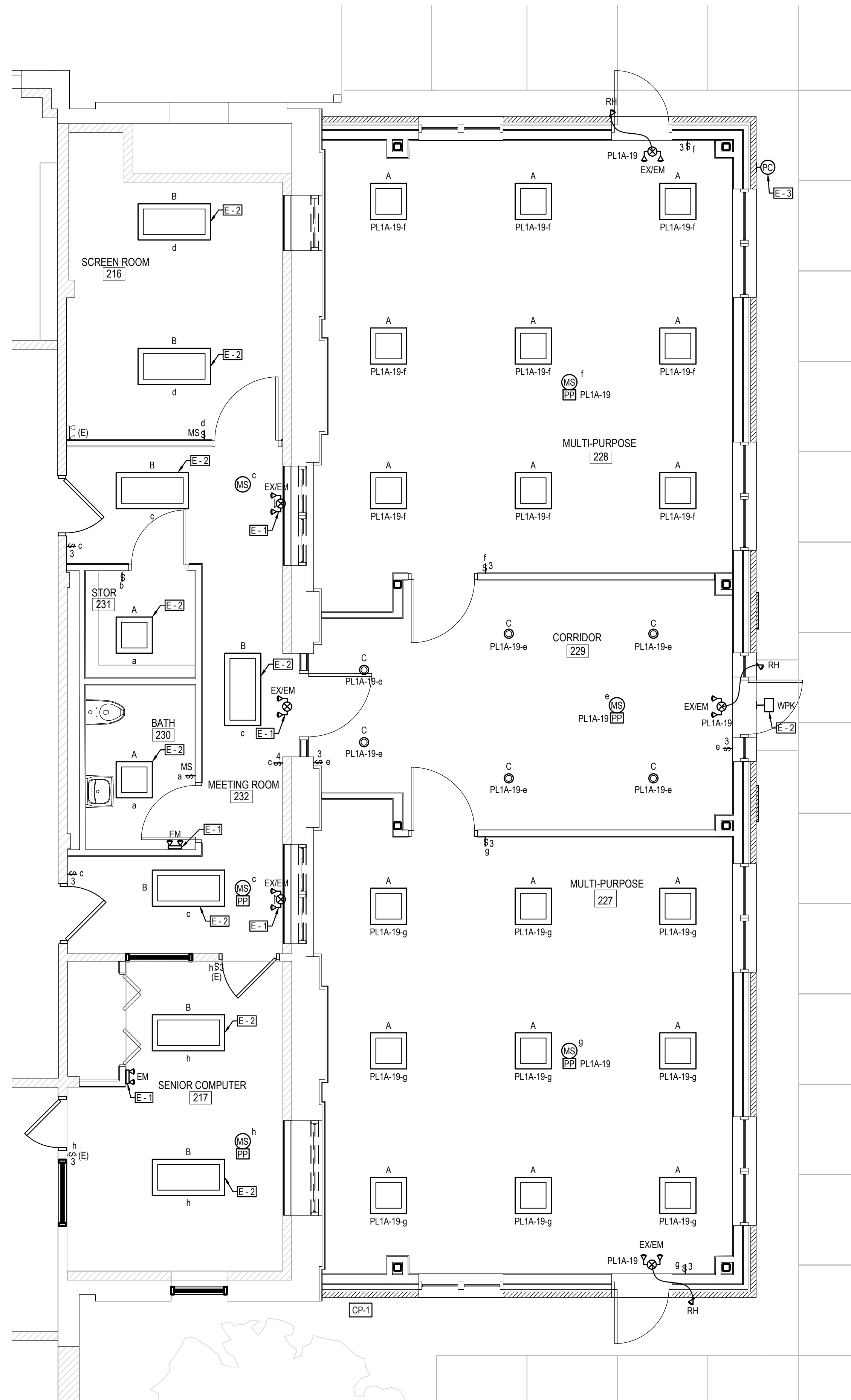
ELECTRICAL DEMOLITION PLANS

ISSUED FOR BID  
NOVEMBER 6, 2024

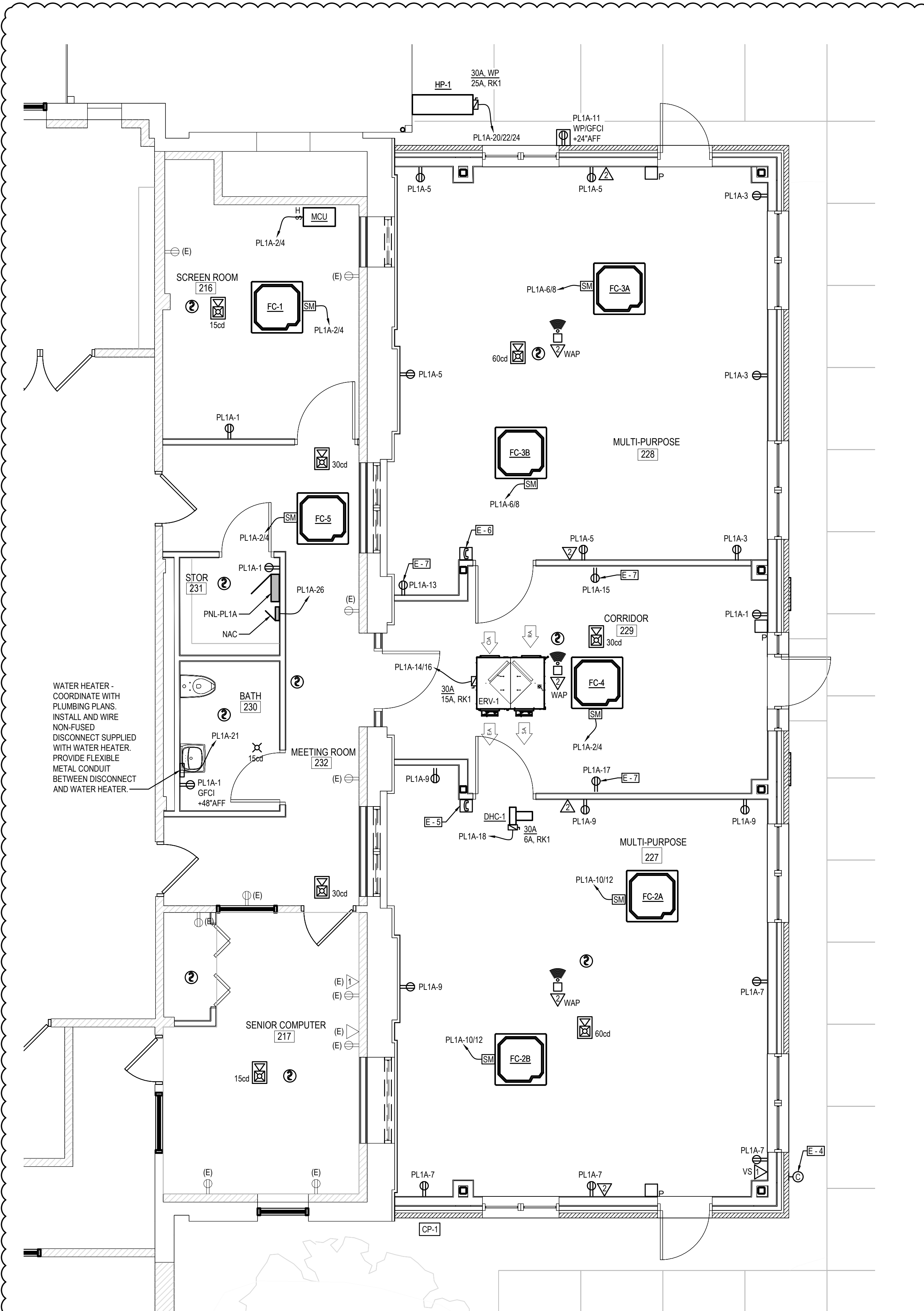
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**1 ELECTRICAL LIGHTING PLAN**  
 SCALE: 1/4" = 1'-0"



**2 ELECTRICAL POWER PLAN**  
 SCALE: 1/4" = 1'-0"

- ELECTRICAL NEW WORK NOTES:**
- PROVIDE NEW LIGHT FIXTURES AND REINSTALL EXISTING LIGHT FIXTURES, AS INDICATED. CONNECT TO NEW LIGHTING CONTROLS UNLESS NOTED OTHERWISE.
  - PROVIDE NEW RECEPTACLES, DATA OUTLETS, WIRE, CABLING, AND CONDUIT.
  - PROVIDE NEW DISCONNECT SWITCHES, FRACTIONAL HORSEPOWER MOTOR STARTERS, HORSEPOWER RATED TOGGLE SWITCHES, WIRE, AND CONDUIT FOR NEW MECHANICAL EQUIPMENT AS SHOWN.
  - PROVIDE A NEW ELECTRICAL PANEL. SEE SHEETS E-500 AND E-600 FOR REQUIREMENTS.
- E-1 CONNECT FIXTURE TO AN UNSWITCHED LEG OF THE EXISTING LOCAL LIGHTING CIRCUIT WITH NEW 2#12 + 1#12G - 3/4" WIRE AND CONDUIT EXTENSIONS.
- E-2 CONNECT TO THE EXISTING LIGHTING CIRCUIT / CONTROLS WITH NEW WIRE AND CONDUIT EXTENSIONS.
- E-3 REINSTALL EXISTING PHOTOCELL IN NEW LOCATION SHOWN AND RECONNECT TO THE EXISTING SOURCE WITH NEW WIRE AND CONDUIT EXTENSIONS.
- E-4 REINSTALL EXISTING CAMERA IN NEW LOCATION SHOWN. PROVIDE NEW MOUNTING HARDWARE.
- E-5 REINSTALL EXISTING TELEPHONE WITH NEW MOUNTING HARDWARE. PROVIDE NEW CABLE CONNECTION AND WALL MOUNT VOICE OUTLET FOR PROPER OPERATION.
- E-6 PROVIDE NEW TELEPHONE WITH NEW MOUNTING HARDWARE. PROVIDE NEW CABLE CONNECTION AND WALL MOUNT VOICE OUTLET FOR PROPER OPERATION.
- E-7 COORDINATE LOCATION OF RECEPTACLE WITH LOCATION OF POD. SEE FURNITURE PLAN ON SHEET F-101.

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PROJECT

TOWN OF EAST GREENWICH

SWIFT COMMUNITY CENTER EXPANSION

SWIFT COMMUNITY CENTER

121 PERCE STREET

EAST GREENWICH RI 02818

REVISIONS

MARK	DESCRIPTION	DATE
1	ADDENDUM #1	12/26/24

SHEET TITLE

ELECTRICAL PLANS

ISSUED FOR BID

NOVEMBER 6, 2024

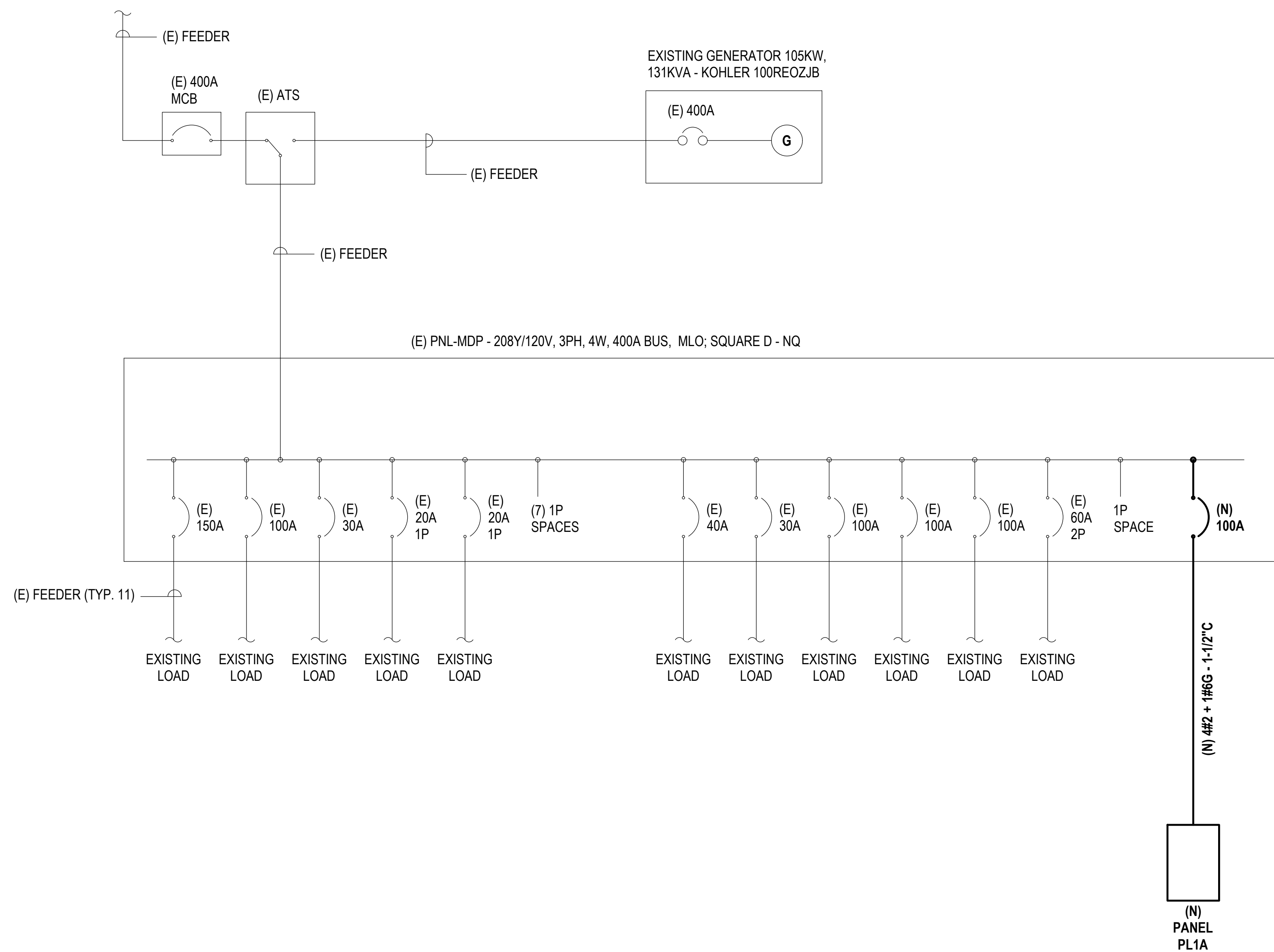
DRAWN JD	CHKD PP	PROJECT NO. 24065
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SHEET NO.

**E-101**

12/19/2024 4:38 PM

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**1**  
E-600  
**ELECTRICAL SINGLE LINE DIAGRAM**  
SCALE: NOT TO SCALE

- SINGLE LINE DIAGRAM NOTES:**
- ALL CIRCUIT BREAKERS AND DISCONNECT SWITCHES ARE 3 POLES UNLESS NOTED OTHERWISE.
  - ALL FEEDER CIRCUIT BREAKERS 400A AND GREATER SHALL HAVE ELECTRONIC TRIP INCLUDING LONG, SHORT, AND INSTANTANEOUS SETTINGS AND SHALL HAVE FIELD REPLACEABLE TRIP SETTINGS.
  - ALL ELECTRICAL EQUIPMENT ARE NEW UNLESS NOTED OTHERWISE.

**NEW PANEL**

OA kVA	OB kVA	OC kVA	DESCRIPTION	PHASE	Br	Ckt	θ	Br	Ckt	θ	DESCRIPTION	OA kVA	OB kVA	OC kVA
* 0.72	-	-	RECEPT - SCRN 216, STOR 231, BATH 230, COR 229	1	20	1	2	20	2	FC-1, 4, 5, MCU - SCRN 216, CORR 229, MEET 232	0.22	-	-	*
* -	0.54	-	RECEPT - MULTI-PURPOSE 228	1	20	3	4	20	2	FC-3A, 3B - MULTI-PURPOSE 228	-	0.29	-	*
* -	-	0.72	RECEPT - MULTI-PURPOSE 228	1	20	5	6	20	2	FC-2A, 2B - MULTI-PURPOSE 227	-	-	0.29	*
* 0.72	-	-	RECEPT - MULTI-PURPOSE 227	1	20	7	8	20	1	DHC-1 - MULTI-PURPOSE 227	-	-	0.50	*
* -	0.72	-	RECEPT - MULTI-PURPOSE 227	1	20	9	10	20	2	HP-1 - EXTERIOR	-	2.10	-	*
* -	-	0.18	RECEPT - EXTERIOR	1	20	11	12	20	3	HP-1 - EXTERIOR	-	2.10	-	*
* 0.50	-	-	RECEPT - ADA POD - MULTI-PURPOSE 228	1	20	13	14	20	2	ERV-1 - CORRIDOR 229	-	0.37	-	*
* -	0.50	-	RECEPT - ADA POD - CORRIDOR 229	1	20	15	16	20	1	DHC-1 - MULTI-PURPOSE 227	-	-	0.50	*
* -	-	0.50	RECEPT - POD - CORRIDOR 229	1	20	17	18	20	1	DHC-1 - MULTI-PURPOSE 227	-	-	0.50	*
* 0.53	-	-	LIGHTS - CORR 229, MULTI-PURPOSE 227 & 228	1	20	19	20	20	1	DHC-1 - MULTI-PURPOSE 227	-	-	0.50	*
* 1.80	-	-	WATER HEATER	1	20	21	22	25	3	HP-1 - EXTERIOR	-	2.10	-	*
***	-	-	SPARE	1	20	23	24	20	1	NAC PANEL	0.50	-	-	*
***	-	-	SPARE	1	20	25	26	20	1	NAC PANEL	0.50	-	-	*
***	-	-	SPARE	1	20	27	28	20	1	NAC PANEL	0.50	-	-	*
***	-	-	SPARE	1	20	29	30	20	1	NAC PANEL	0.50	-	-	*
-	-	-	SPACE	-	-	31	32	-	-	SPACE	-	-	-	-
-	-	-	SPACE	-	-	33	34	-	-	SPACE	-	-	-	-
-	-	-	SPACE	-	-	35	36	-	-	SPACE	-	-	-	-

**CONNECTED LOAD**  
 PHASE A: 5.95 KVA  
 PHASE B: 6.54 KVA  
 PHASE C: 4.58 KVA  
 TOTAL CONNECTED LOAD = 17.07 KVA

\* PROVIDE NEW CIRCUIT BREAKER AND NEW 2#12 • 1#120 - 34°C.  
 \*\* PROVIDE NEW CIRCUIT BREAKER AND NEW 3#10 • 1#100 - 34°C.  
 \*\*\* PROVIDE NEW SPARE CIRCUIT BREAKER.

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PROJECT

REVISIONS		
MARK	DESCRIPTION	DATE
1	ADDENDUM #1	12/26/24

SHEET TITLE

**ELECTRICAL SINGLE LINE DIAGRAM & PANEL SCHEDULE**

ISSUED FOR BID

NOVEMBER 6, 2024

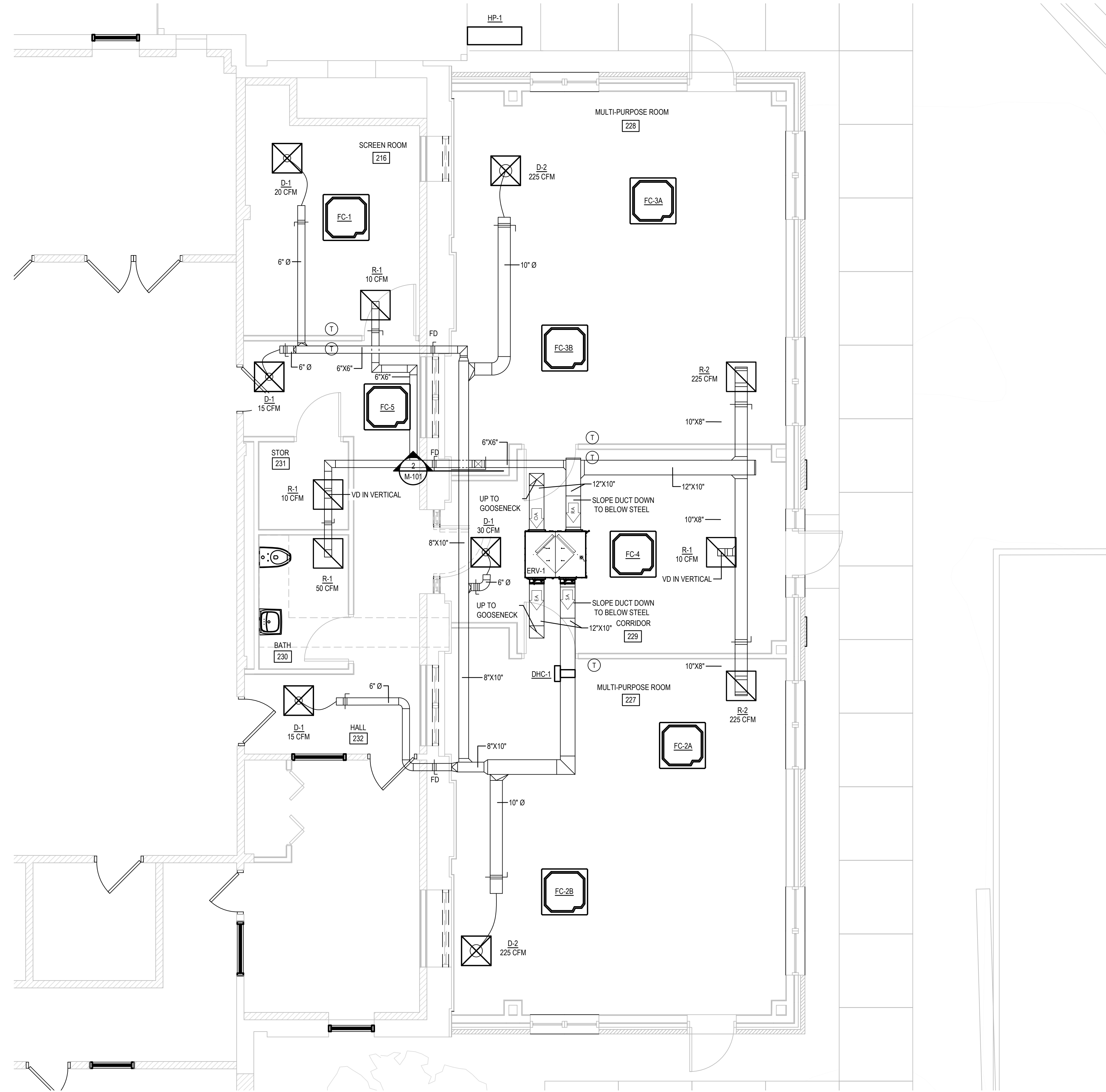
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JD	PP	24065

SHEET NO.

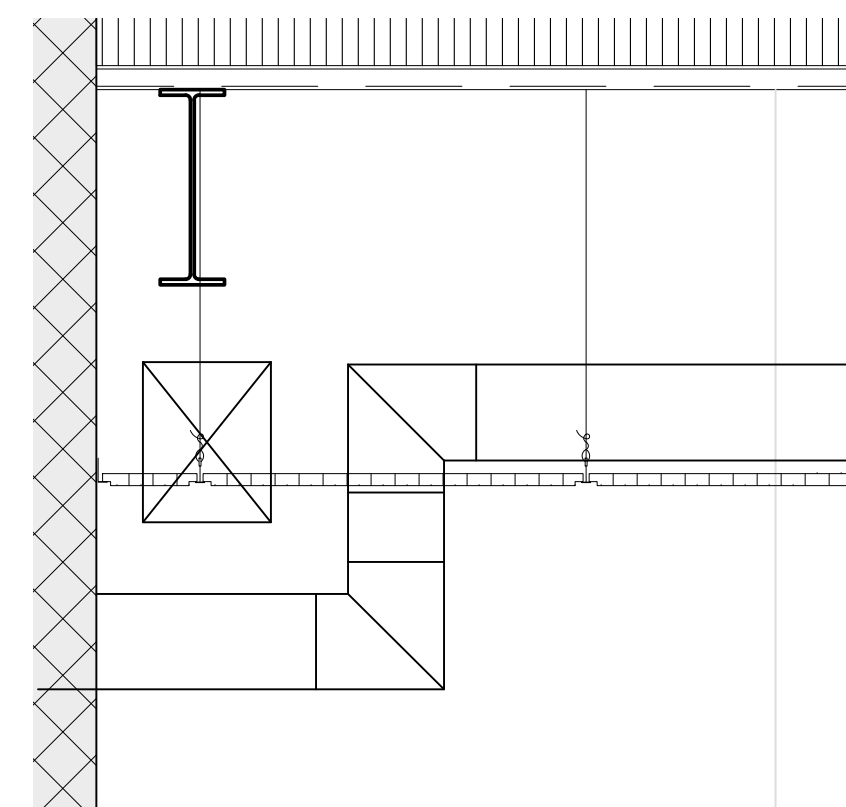
**E-600**

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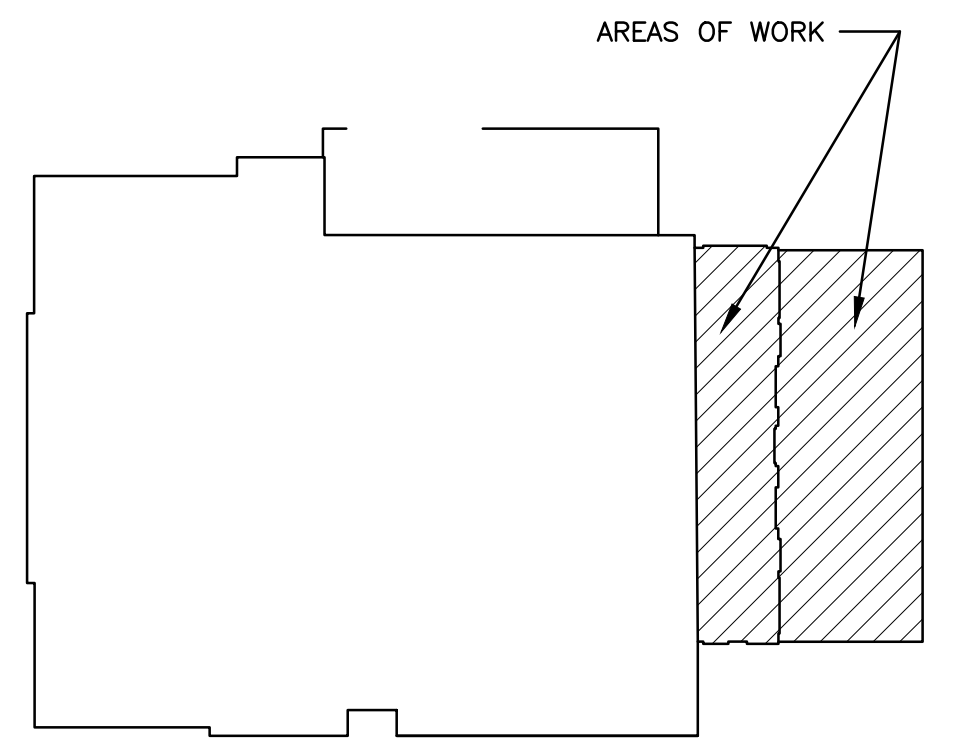
**1**  
M-101  
**MECHANICAL NEW WORK PLAN**  
SCALE: 1/4" = 1'-0"



- MECHANICAL GENERAL NOTES:**
1. RUNOUT DUCTS CONNECTED TO AIR TERMINALS ARE TO MATCH SIZE OF ASSOCIATED AIR TERMINAL UNLESS NOTED OTHERWISE.
  2. ALL AIR TERMINALS SHALL BE PROVIDED WITH VOLUME DAMPERS. PROVIDE 6\"/>



**2**  
M-101  
**MECHANICAL DUCT SECTION 1**  
SCALE: 1/4" = 1'-0"



SWIFT COMMUNITY CENTER  
KEY PLAN

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1	ADDENDA 1	12/4/2024

SHEET TITLE

MECHANICAL NEW WORK PLAN

ISSUED FOR BID  
NOVEMBER 6, 2024

DRAWN	CHKD	PROJECT NO.
KW	BZ	24065

SHEET NO.  
**M-101**



### DIFFUSER SCHEDULE

UNIT NUMBER	SIZE (FACE / INLET)	DESCRIPTION	MANUFACTURER	MODEL NUMBER	REMARKS
D-1	24" X 24" / 6"	ALUMINUM SQUARE CONE DIFFUSER W/ FACE OPERABLE DAMPER	KRUEGER	51450	
D-2	24" X 24" / 10"	ALUMINUM SQUARE CONE DIFFUSER W/ FACE OPERABLE DAMPER	KRUEGER	51450	

NOTE: PROVIDE EQUIPMENT BY KRUEGER OR APPROVED EQUAL. FINISH SHALL BE FACTORY OFF-WHITE FINISH. CONTRACTOR IS RESPONSIBLE TO SELECT APPROPRIATE MOUNT DEPENDING ON CEILING TYPE.

### RETURN GRILLE SCHEDULE

UNIT NUMBER	SIZE (FACE / INLET)	DESCRIPTION	MANUFACTURER	MODEL NUMBER	REMARKS
R-1	24" X 24" / 6"	ALUMINUM PERFORATED RETURN AIR GRILLE	KRUEGER	56490	
R-2	24" X 24" / 10"	ALUMINUM PERFORATED RETURN AIR GRILLE	KRUEGER	56490	

NOTE: PROVIDE EQUIPMENT BY KRUEGER OR APPROVED EQUAL. FINISH SHALL BE FACTORY OFF-WHITE FINISH. CONTRACTOR IS RESPONSIBLE TO SELECT APPROPRIATE MOUNT DEPENDING ON CEILING TYPE.

### HEAT PUMP SCHEDULE

UNIT NUMBER	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	DESIGN COOLING OUTDOOR DBWS (°F)	DESIGN HEATING OUTDOOR DB (°F)	ELEC	MCA	MOCP	MFR	MODEL	REMARKS
HP-1	120	135	90/73	6	208/360	19.4	25	SAMSUNG	AM120BXVGR/AA	

NOTE: PROVIDE UNITS AS SCHEDULED OR APPROVED EQUAL. MOUNT UNITS ON MIRO INDUSTRIES HD EQUIPMENT SUPPORT. CONTRACTOR TO CONFIRM CORRECT MODEL. PROVIDE WALL PENETRATIONS FOR REFRIGERANT PIPING AND ELECTRICAL CONDUITS. PROVIDE MANUFACTURER'S TWINNING KITS FOR INSTALLATION AND SINGLE-POINT ELECTRICAL CONNECTIONS. ALL UNITS SHALL BE PROVIDED WITH SPRING VIBRATION ISOLATORS, MINIMUM 1" DEFLECTION.

### VRF FAN COIL SCHEDULE

UNIT NUMBER	SUPPLY AIRFLOW (CFM)	COOLING				HEATING				E.S.P. (IN-W.G.)	MCA	ELECTRICAL	MFR	MODEL	REMARKS
		E.A.T. (D.B./W.B.) (°F)	L.A.T. (D.B./W.B.) (°F)	TOTAL CAPACITY (MBH)	E.A.T. (D.B.) (°F)	L.A.T. (D.B.) (°F)	TOTAL CAPACITY (MBH)								
FC-1	315	78/65	55/55	7.5	62	90	8.7	-	24	208/160	SAMSUNG	AM007NNNDCH/AA			
FC-2A	1340	78/65	55/55	30	62	90	34	-	1.39	208/160	SAMSUNG	AM030BMPCH/AA			
FC-2B	1340	78/65	55/55	30	62	90	34	-	1.39	208/160	SAMSUNG	AM030BMPCH/AA			
FC-3A	1340	78/65	55/55	30	62	90	34	-	1.39	208/160	SAMSUNG	AM030BMPCH/AA			
FC-3B	1340	78/65	55/55	30	62	90	34	-	1.39	208/160	SAMSUNG	AM030BMPCH/AA			
FC-4	315	78/65	55/55	7.5	62	90	8.7	-	24	208/160	SAMSUNG	AM007NNNDCH/AA			
FC-5	300	78/65	55/55	5	62	90	6	-	24	208/160	SAMSUNG	AM005NNNDCH/AA			

NOTE: PROVIDE UNITS AS SCHEDULED OR APPROVED EQUAL. ALL UNITS SHALL HAVE EC MOTOR WITH FAN SPEED CONTROLLER. ALL UNITS TO BE EQUIPPED WITH INTEGRAL CONDENSATE REMOVAL PUMP WHICH RECEIVES POWER DIRECTLY FROM FAN COIL UNIT. PROVIDE GROUPED CONTROLS FOR SPACES SERVED BY MULTIPLE UNITS. SEE DRAWINGS.

### ENERGY RECOVERY VENTILATOR SCHEDULE

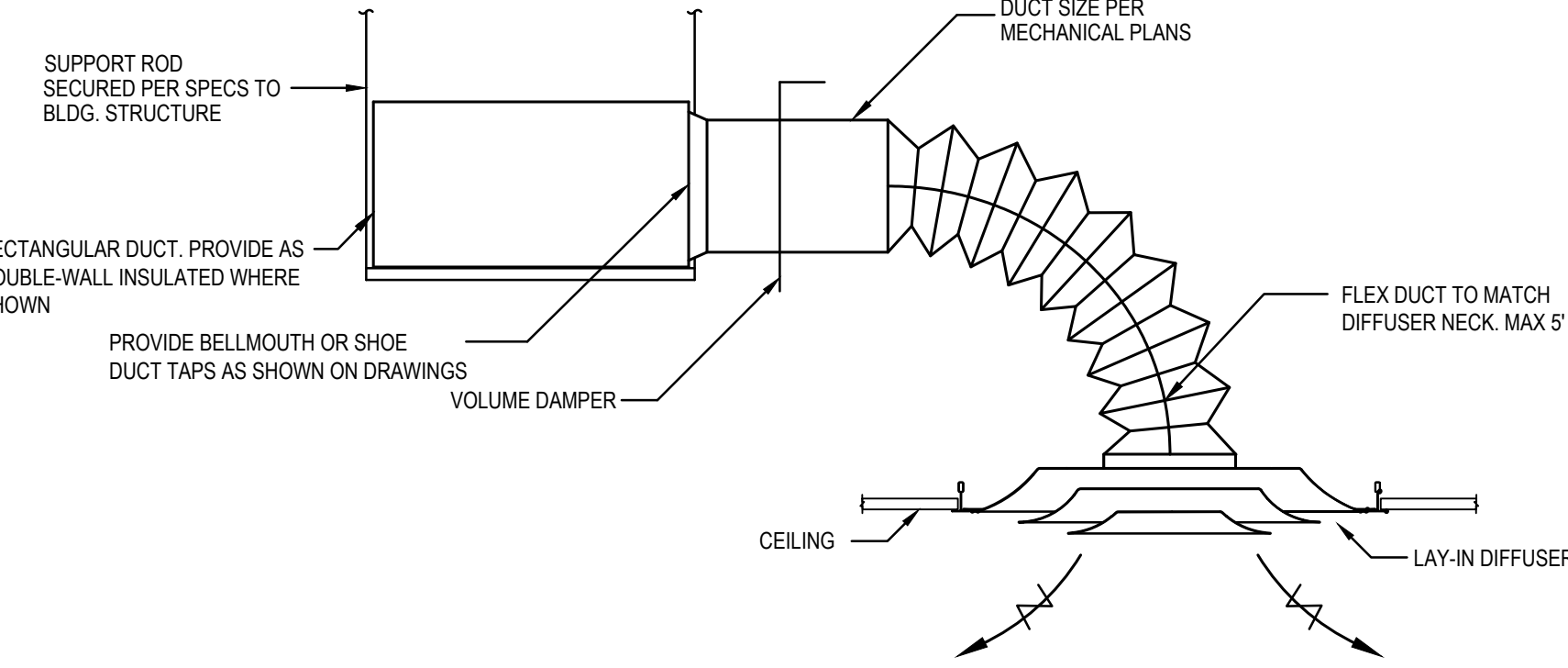
UNIT NUMBER	SUPPLY AIRFLOW (CFM)	EXHAUST AIRFLOW (CFM)	SUMMER				WINTER				SUPPLY E.S.P. (IN-W.G.)	EXHAUST E.S.P. (IN-W.G.)	ELEC	MOTOR QTY	MCA	MOCP	MFR	MODEL	REMARKS
			SUPPLY E.D.B./E.W.B. (°F)	L.D.B./L.W.B. (°F)	EXHAUST E.D.B./E.W.B. (°F)	SUPPLY E.D.B./E.W.B. (°F)	L.D.B./L.W.B. (°F)	EXHAUST E.D.B./E.W.B. (°F)											
ERV-1	530	530	90/73	78.8/67.2	75/62.6	10.6	57.3/46.6	70/54.4	0.75	0.75	208/160	2	3.9	15	RENEWAIRE	HE10-JNH-S15EE-DGN3-L			

NOTE: PROVIDE UNITS AS SCHEDULED OR APPROVED EQUAL. PROVIDE W/ EC MOTORS ON SUPPLY AND EXHAUST FANS. SINGLE POINT POWER CONNECTION. HANGING SPRING ISOLATORS. DOUBLE WALL CONSTRUCTION AND DUCT FLANGES. EXHAUST AIR CONDITIONS ARE 75 DEG. F DB @ 50% RH IN COOLING MODE AND 70 DEG. F DB @ 35% RH IN HEATING MODE. PROVIDE MERV-8 FILTERS ON BOTH AIR STREAMS. PROVIDE MFR'S TIME CLOCK FOR OCCUPIED/UNOCCUPIED CONTROL.

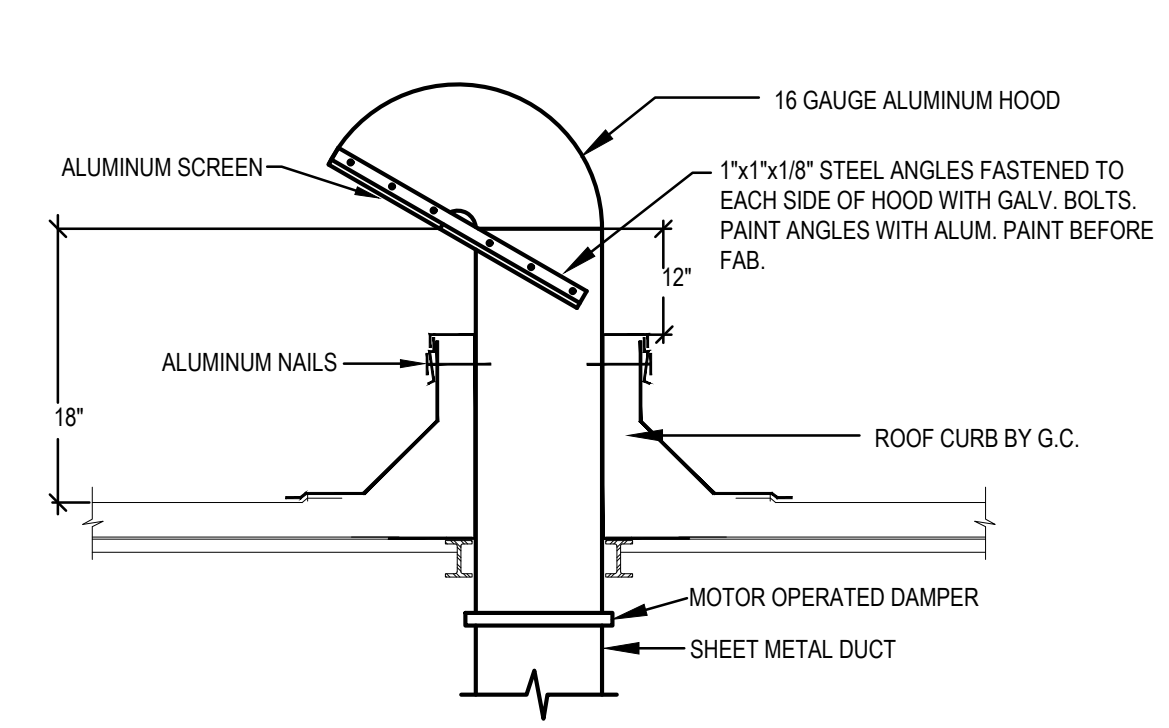
### ELECTRIC DUCT HEATER SCHEDULE

MARK	AIRFLOW (CFM)	HEATING E.D.B./L.D.B. (°F)	CAPACITY (KW)	DUCT DIMENSIONS	AIRFLOW ORIENTATION	ELECTRICAL	MANUFACTURER	MODEL	REMARKS
DHC-1	530	57/70	0.5	12"x10"	HORIZONTAL	120/160	WARREN	CBK	

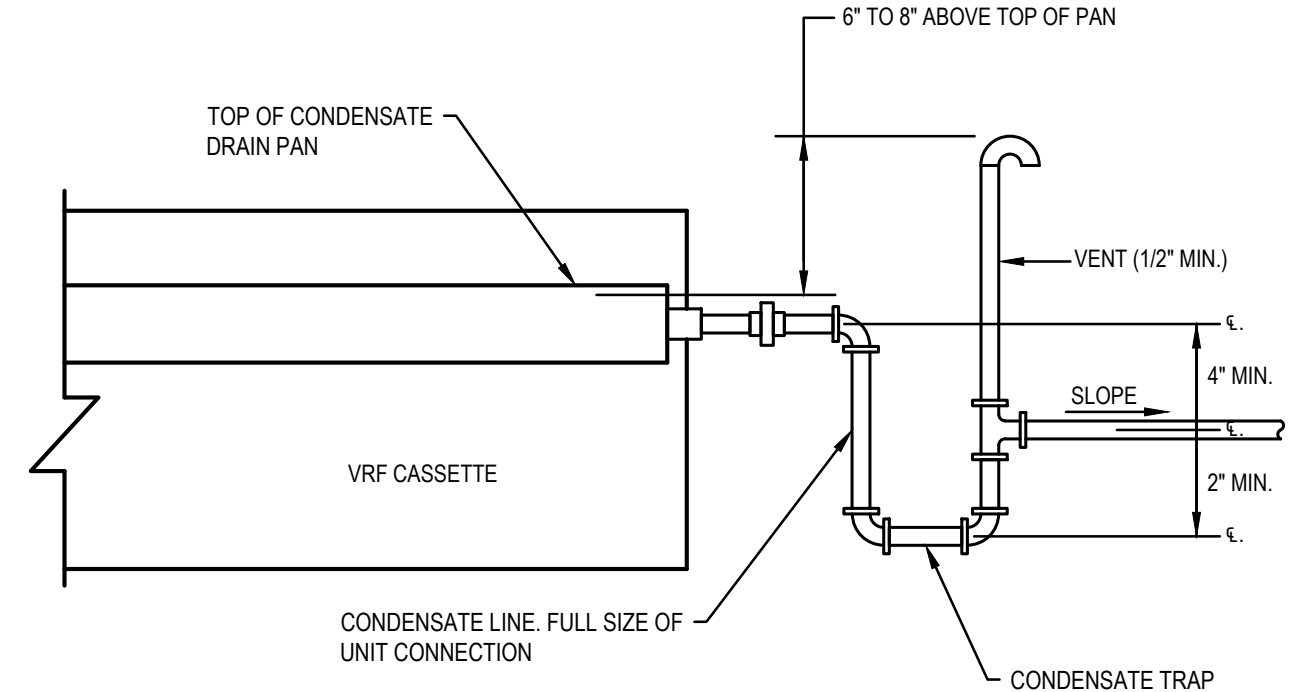
NOTE: PROVIDE EQUIPMENT AS SCHEDULED OR APPROVED EQUAL. PROVIDE UNITS IN NEMA 1 ENCLOSURE, WITH MANUAL RESET HI-LIMIT SWITCHES, MAGNETIC CONTACTORS, 24V CONTROL TRANSFORMERS, AIRFLOW SWITCH FOR POSITIVE PRESSURE, DISCONNECT SWITCH, INTERLOCKING COVER AND SCR CONTROL WITH 0-10VDC INPUT SIGNAL. CONTRACTOR TO MAINTAIN 36" CLEARANCE TO DISCONNECT PER NEC. PROVIDE DUCT MOUNTED TEMPERATURE SENSOR TO MAINTAIN SCHEDULED LEAVING AIR TEMPERATURE.



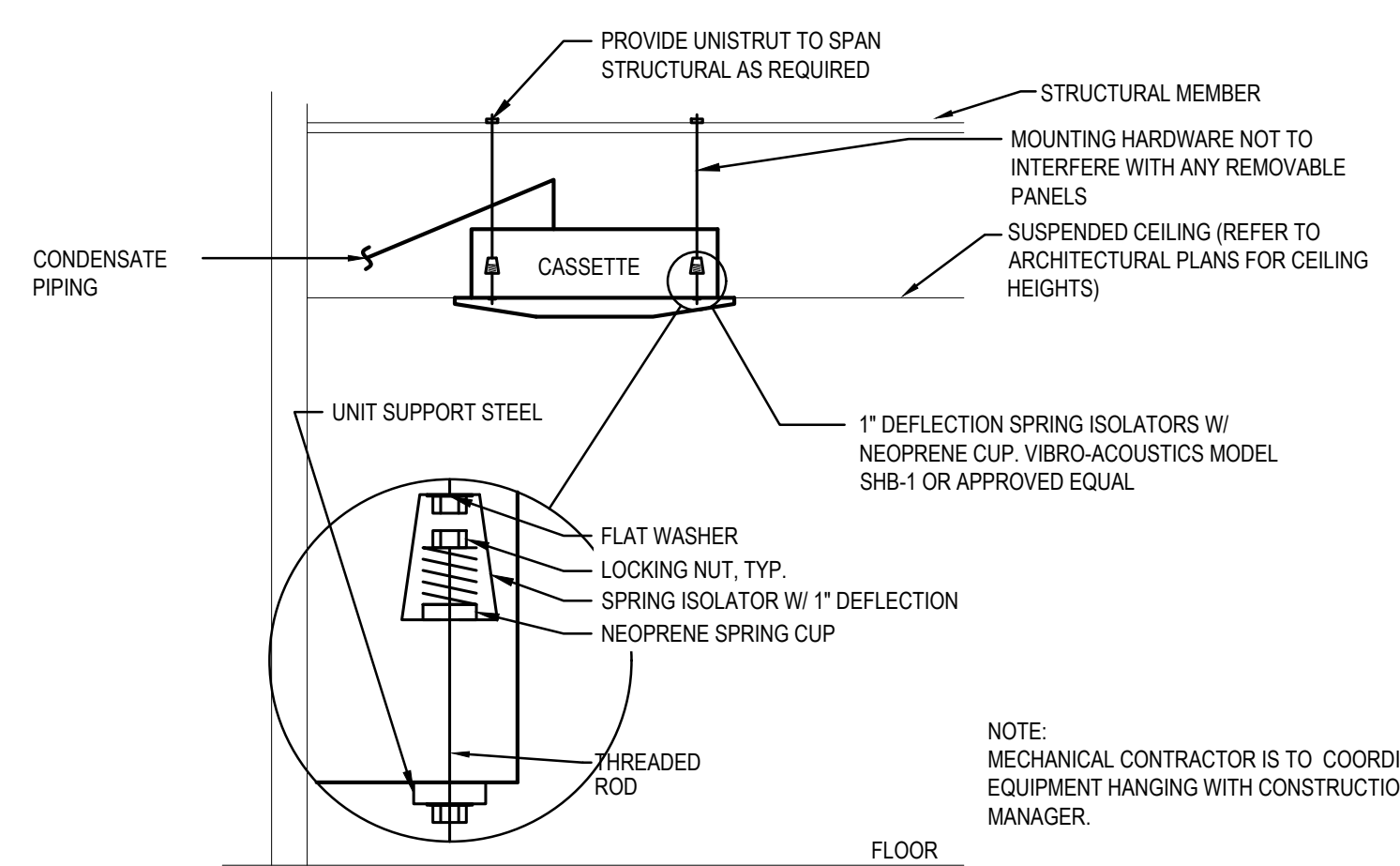
2 TYPICAL DIFFUSER CONNECTION DETAIL  
SCALE: NTS



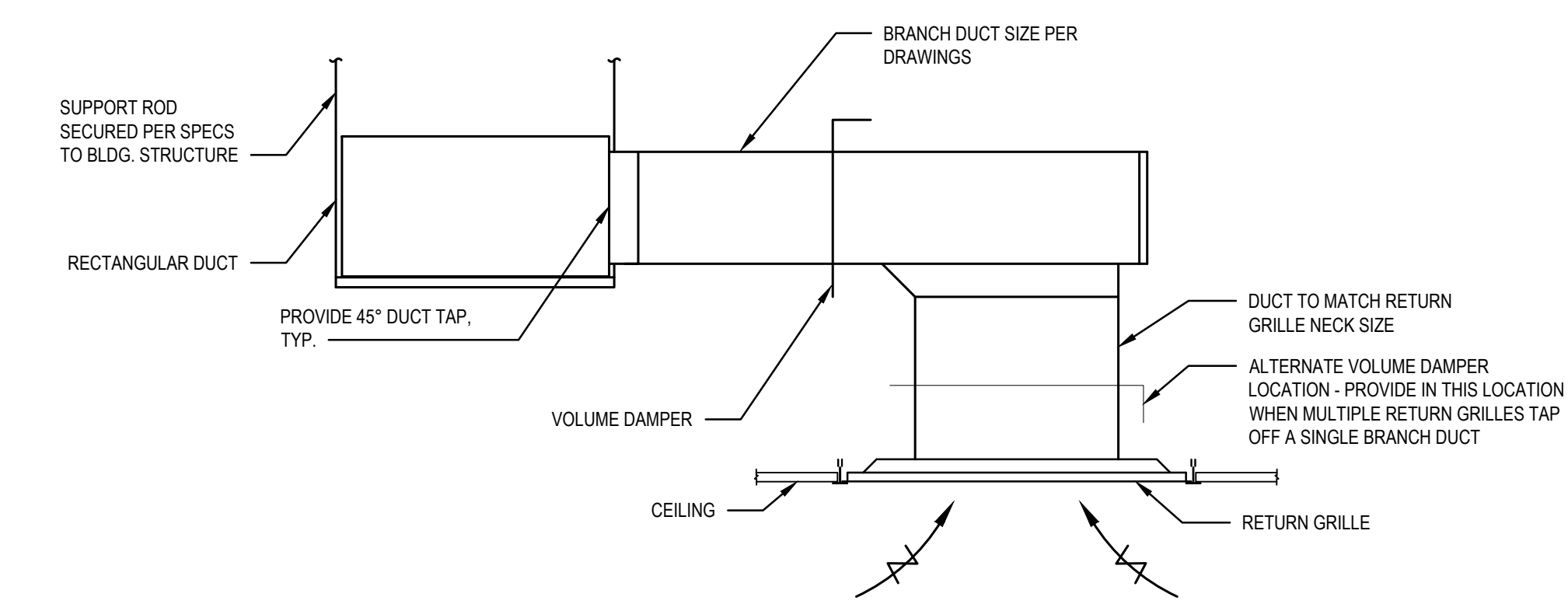
5 GOOSENECK DETAIL  
SCALE: Not To Scale



1 TYPICAL VRF CASSETTE CONDENSATE DETAIL  
SCALE: NTS



3 TYPICAL VRF CASSETTE HANGING DETAIL  
SCALE: NTS



4 TYPICAL RETURN GRILLE CONNECTION DETAIL  
SCALE: NTS

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ARCHITECT / ENGINEER SEAL

PROJECT

TOWN OF EAST GREENWICH

SWIFT COMMUNITY CENTER EXPANSION

SWIFT COMMUNITY CENTER

121 PERCE STREET  
EAST GREENWICH RI 02818

MARK	DESCRIPTION	DATE
1	ADDENDA 1	12/4/2024

SHEET TITLE

MECHANICAL SCHEDULES

ISSUED FOR BID

NOVEMBER 6, 2024

DRAWN	CHKD	PROJECT NO.
KW	BZ	24065

SHEET NO.

M-500

12/17/2024 10:39 AM

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