FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS

226 N. Miami Ave.
P.O. Box 220
Sidney, Ohio 45365

(937) 492-6983

ADDENDUM # 3

January 24, 2025

To Drawings and Specifications for:

NEW CONSTRUCTION OF FIRE STATION 2
CITY OF SIDNEY
2324 Campbell Road
Sidney, Ohio 45365
Project #2207.02

This Addendum must be acknowledged on the Form of Proposal.

TO ALL CONTRACTORS:
This Addendum modifies the original Drawings and Specifications and is to be taken into account in preparing proposals and will become part of the Contract Documents.

SPECIFICATIONS

ITEM 01 SECTION 042000 – UNIT MASONRY

A. Paragraph 2.6.B.1; Delete clay face brick "Manufacturers" paragraph and replace with "Basis-of-Design" paragraph as follows:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Modular Sunburst Blend, Velour texture, as manufactured by The Belden Brick Company. A comparable product may be considered from one of the following manufacturers, if approved by Architect:
a. Glen Gary Corporation
b. Bowerston Shale Company

ITEM 02 SECTION 055000 – METAL FABRICATIONS

A. Paragraph 2.6, B.2; revise Basis of Design as follows: "**USF 1215 ring & BC cover as manufactured by US Foundry & Mfg. Corp.**"

ITEM 03 SECTION 071600 – SHEATHING

A. Paragraph 2.4; add paragraph "C. Glass-Mat Gypsum Sheathing" as follows:

C. Glass-Mat Gypsum Sheathing: ASTM C1177/C1177M.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

a. **CertainTeed; SAINT-GOBAIN**
b. **Gold Bond Building Products, LLC provided by National Gypsum Company**
c. **USG Corporation**

2. **Type and Thickness: Type X, thickness as indicated on Drawings.**
3. **Size: 48 by 96 inches for vertical installation.**

B. Paragraph 2.7; add paragraph "C. Sealant for Glass-Mat Gypsum Sheathing" as follows:

C. Sealant for Glass-Mat Gypsum Sheathing: Silicone emulsion sealant complying with ASTM C834, compatible with sheathing tape and sheathing and recommended by tape and sheathing manufacturers for use with glass-fiber sheathing tape and for covering exposed fasteners.

1. **Sheathing Tape: Self-adhering glass-fiber tape, minimum 2 inches wide, 10 by 10, or 10 by 20 threads/inch, of type recommended by sheathing and tape manufacturers for use with silicone emulsion sealant in sealing joints in glass-mat gypsum sheathing and with a history of successful in-service use.**

C. Add Paragraph "**3.4 Installation of Gypsum Sheathing**" as follows:

3.4 INSTALLATION OF GYPSUM SHEATHING

A. Comply with GA-253 and with manufacturer's written instructions.

1. **Fasten gypsum sheathing to cold-formed metal framing with screws.**
2. **Install panels with a 3/8-inch gap where non-load-bearing construction abuts structural elements.**
3. **Install panels with a 1/4-inch gap where they abut masonry or similar materials that might retain moisture, to prevent wicking.**

B. Apply fasteners so heads bear tightly against face of sheathing, but do not cut into facing.

C. Vertical Installation: Install vertical edges centered over studs. Abut ends and edges with those of adjacent panels. Attach at perimeter and within field of panel to each stud.

1. **Space fasteners approximately 8 inches o.c. and set back a minimum of 3/8 inch from edges and ends of panels.**

D. Seal sheathing joints in accordance with sheathing manufacturer's written instructions.

1. **Apply glass-fiber sheathing tape to glass-mat gypsum sheathing joints and apply and trowel sealant to embed entire face of tape in sealant. Apply sealant to exposed fasteners with a trowel so fasteners are completely covered. Seal other penetrations and**

openings.

ITEM 04 SECTION 072100 – THERMAL INSULATION

A. Paragraph **2.3, A;** revise wet film thickness to read, **"according to manufacturer's written instruction, of 35 mils or thicker to meet manufacturer's wall system and performance requirements, over smooth, void-free substrates."** in lieu of 50 mils.

ITEM 05 SECTION 072726 – FLUID-APPLIED MEMBRANE AIR BARRIER

A. Delete Paragraph **2.3 Spray Applied Cellulosic Insulation** and associated sub-paragraphs. Use spray polyurethane foam insulation with fire ignition barrier in lieu of spray applied cellulosic insulation at top of walls to close off deck flutes.

ITEM 06 SECTION 081113 – HOLLOW METAL DOORS AND FRAMES

A. Paragraph 2.1, A.; add "**Pioneer Industries: ASSA ABLOY**" to list of manufacturers.

ITEM 07 SECTION 081613 – FRP DOORS

A. Add to specifications "**SECTION 081613- FRP DOORS**" included with this Addendum.

ITEM 08 SECTION 083613 – SECTIONAL DOORS

A. Paragraph 2.3, B; Revise Operation Cycles from 25,000 to **50,000 cycles**.

ITEM 09 SECTION 084113 – ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

A. Paragraph 2.3, A.; add "**Oldcastle Building Envelope, Series 6000XT**" as a comparable product.
B. Paragraph 2.3, F.5; revise to add verbiage and add sub-paragraph "a." as follows:
   5. Basis-of-Design, YKK 50T **or comparable product by the following:**
      a. Oldcastle Building Envelope, WS-500TC.
C. Delete Paragraph 2.3, G. Flush Entrance Doors. Doors are to change to insulated FRP doors.

ITEM 10 SECTION 123216 – PLASTIC-LAMINATE-CLAD CASEWORK

A. Paragraph 2.1, C.; revise cabinet design type to "**Frameless**" in lieu of Face-frame.

ITEM 11 SECTION 123640 – STONE COUNTERTOPS

A. Paragraph 2.3, B.1, add sub-paragraph **b.** as follows:
   b. Color: Steel Grey Granite

ITEM 12 SECTION 23 2300 – REFRIGERANT PIPING

A. Paragraph 2.2, A., Clarify Copper Tubing type, add **Type C1**.
B. Paragraph 2.2, B., Clarify Copper Coil type, add **Type C2**.

ITEM 13 SECTION 23 5100 – BREECHINGS, CHIMNEYS, AND STACKS

A. Paragraph 2.1, G., revise as follows: "**Outer jacket above the roof shall be factory painted, color selected by Architect. Color choices shall be a minimum of 180 different colors**."

ITEM 14 SECTION 32 1216 - ASPHALT PAVING

A. Add **Section 32 1216 - ASPHALT PAVING** included with this addendum.

ITEM 15 SECTION 32 1313 - CONCRETE PAVING

A. Add **Section 32 1313 - CONCRETE PAVING** included with this addendum.

DRAWINGS

ITEM 16 SHEET A2.4 – PLAN DETAILS

A. Detail 1; add note "**Bituminous coating on steel**"
B. Detail 3; add note "**Self adhered flexible membrane flashing**"
C. Replace drawings sheets A2.4 with **revised sheets A2.4**.

ITEM 17 SHEET A3.2 – ROOF DETAILS

A. Details 1, 3, 5, and 6;
    a. Change boardstock insulation air/weather barrier note to " **1 ½"** " in lieu of 2".
    b. Add note "**1/2" glass-mat gyp. sheathing**"
B. Details 2 & 4; in lieu of filling metal deck voids with spray-applied cellulosic insulation at wall intersections with metal roof deck, revise noting to read "**Fill voids with closed-cell spray foam insulation. Provide ignition barrier coating on (interior) exposed side."**
C. Replace drawings sheet A3.2 with **revised sheet A3.2**.

ITEM 18 SHEET A3.4 – ROOF DETAILS

A. Detail 1;
    a. Change boardstock air/weather barrier insulation note to " **1 ½"** " in lieu of 2".
    b. Add note "**1/2" glass-mat gyp. sheathing**"
B. Replace drawings sheets A3.4 with **revised sheets A3.4**.

ITEM 19 SHEET A3.6 – ROOF DETAILS

A. Add, **Detail 8 – Lightning Protection Detail**.
B. Replace drawings sheets A3.6 with **revised sheets A3.6**.

ITEM 20 SHEET A4.1 – EXTERIOR ELEVATIONS

A. Exterior Elevation (Key) Notes; **add Note 19** as follows, "**Cast stone medallion. Inscribed lettering in cast stone with stain color; lettering font as selected by architect. Refer to detail 2/A6.5 for lettering height."**
B. South Elevation; add key note 19 referencing cast stone medallion.
C. Replace drawings sheets A4.1with **revised sheets A4.1**.

ITEM 21 SHEET A6.1 - WALL CONSTRUCTION DETAILS

A. All Details, revise noting referencing perimeter foundation insulation to read, " **2" Extruded Polystyrene Board Insulation (R-10 min.).**"
B. Detail 2; revise detail
   a. Change boardstock air/weather barrier insulation to " **1 ½"** " in lieu of 2".
   b. Add note "**1/2" glass-mat gyp. sheathing**"
C. Replace drawings sheet A6.1 with **revised sheet A6.1**.

ITEM 22 SHEETS A6.3 – A6.9, WALL SECTIONS or DETAILS

A. Revise Section (Key) Notes **3.2, 4.5, 7.1, and 7.22** as follows:
   3.2 2" Extruded Polystyrene Board Insulation (R-10 min.).
   4.5 Cast stone. Refer to details on A6.5.
   7.1 Boardstock air barrier/wall insulation, 1.5" @ CFMF walls, 2.5" @ masonry walls. Refer to project manual.
   7.22 Fill voids with closed-cell spray foam insulation. Provide ignition barrier coating on (interior) exposed side.
B. Add Section (Key) **Note 7.26** as follows:
   7.26 1/2" glass-mat gypsum sheathing.

ITEM 23 SHEET A6.3 WALL SECTIONS

A. All Details, add key **Note 7.26** referencing the addition of glass-mat gypsum sheathing.
B. Revise Section Notes per **Item 22** of this Addendum.
C. Replace drawings sheet A6.3 with **revised sheet A6.3**.

ITEM 24 SHEET A6.4 WALL SECTIONS

A. Detail 1, add key **Note 7.26** referencing the addition of glass-mat gypsum sheathing.
B. Revise Section Notes per **Item 22** of this Addendum.
C. Replace drawings sheet A6.4 with **revised sheet A6.4**.

ITEM 25 SHEET A6.5 ENTRY WALL SECTIONS

A. Add, **Detail 2 – Cast Stone Detail**.
B. Revise Section Notes per **Item 22** of this Addendum.
C. Replace drawings sheet A6.5 with **revised sheet A6.5**.

ITEM 26 SHEET A6.6 WALL SECTIONS

A. Detail 4, add key **Note 7.22** referencing spray foam at top of wall.
B. Revise Section Notes per **Item 22** of this Addendum.
C. Replace drawings sheet A6.6 with **revised sheet A6.6**.

ITEM 27 SHEET A7.1 – ROOM AND DOOR SCHEDULE

A. Door and Frame Schedule: revise **doors 122, 124, and 125** material to **FRP**.
B. Add Material abbreviation "**FRP Fiber Reinforced Polymer**"
C. Replace drawings sheets A7.1 with **revised sheets A7.1**.

ITEM 28 SHEET A7.3 – HEAD, JAMB, AND SILL DETAILS

A. Details J10, S10, H11, J11;
   a. Change rigid board insulation note to " **1 ½"** " in lieu of 2".
   b. Add note "**1/2" glass-mat gyp. sheathing**"
B. Replace drawings sheet A7.3 with **revised sheet A7.3**.

ITEM 29 SHEETS A8.1 & 8.2 – EQUIPMENT PLANS

A. Revise Equipment Plan (Key) **Note 37** to read, "**Training manhole; refer to specifications.**"

ITEM 30 SHEET A9.1 – INTERIOR ELEVATIONS

A. Elevations 6, 14, and 15; add Solid Surface and Plastic Laminate material color designation marker, refer to specifications for colors related to marker.
B. Replace drawings sheet A9.1 with **revised sheet A9.1**.

ITEM 31 SHEET A9.2 – INTERIOR ELEVATIONS

A. Elevations 1, and 6-9; add Solid Surface and Plastic Laminate material color designation marker, refer to specifications for colors related to marker.
B. Replace drawings sheet A9.2 with **revised sheet A9.2**.

ITEM 32 SHEET A9.3 – INTERIOR ELEVATIONS

A. Elevations 1, 2, and 3; add Solid Surface and Plastic Laminate material color designation marker, refer to specifications for colors related to marker.
B. Replace drawings sheet A9.3 with **revised sheet A9.3**.

ITEM 33 SHEET S1.1 – FOUNDATION PLAN

A. Revise foundation at Storm Shelter to match S1.3
B. Replace drawings sheet S1.1 with **revised sheet S1.1**.

ITEM 34 SHEET S1.3 – MEZZANINE FRAMING PLAN

A. Mezzanine Framing Plan; revise note referencing Training Manhole.
B. Replace drawings sheet S1.3 with **revised sheet S1.3**.

ITEM 35 SHEET S2.3 –FRAMING DETAILS

A. Revise Section 13 to indicate **10" CMU** in lieu of 12".
B. Replace drawings sheet S2.3 with **revised sheet S2.3**.

ITEM 36 SHEET H0.1 – LEGENDS AND SCHEDULES

A. Update Seismic Control Specifications and Seismic General Requirements.
B. Replace drawings sheet H0.1 with **revised sheet H0.1**.

ITEM 37 SHEET H0.2 – DUCTWORK MATERIAL SCHEDULES

A. Clarify material for ductwork type G2.
B. Replace drawings sheet H0.2 with **revised sheet H0.2**.

ITEM 38 SHEET H0.3 – PIPING MATERIAL SCHEDULES

A. Revise Refrigerant Piping – Coil type to C2.
B. Replace drawings sheet H0.3 with **revised sheet H0.3**.

ITEM 39 SHEET H0.4 – EQUIPMENT SCHEDULES

A. Fan & Roof Ventilator Schedule
   1. Revise Notes column for Tag **EF-4 and EF-6.**
   2. Remove (Schedule) Notes **6.**
B. Replace drawings sheet H0.4 with **revised sheet H0.4**.

ITEM 40 SHEET H0.5 – VRF SYSTEM SCHEDULE

A. Revise FC-2A & FC-2B unit type.
B. Replace drawings sheet H0.5 with **revised sheet H0.5**.

ITEM 41 SHEET H1.1 – 1ST FLOOR PLAN

A. Revise DOAS Unit duct penetration into fitness room
B. Add pressure monitor to Heavy Decon room
C. Modifiy pressure monitor to TOG room
D. Add unit heater to entry vestibule
E. Modifiy construction Note 42 to read "**Differential pressure monitor. Refer to Detail 11, H3.3**."
F. Added construction Note 45 as follows: "**Two-position control damper. Damper shall be insulated and have blade seals, equal to Greenheck #ICD-45**."
G. Replace drawings sheet H1.1 with **revised sheet H1.1**.

ITEM 42 SHEET H3.3 - DETAILS

A. Add detail 11.
B. Replace drawings sheet H3.3 with **revised sheet H3.3**.

ITEM 43 SHEET H4.3 - CONTROLS

A. Modifiy sequence and connection points on control diagrams 3 and 5.
B. Replace drawings sheet H4.3 with **revised sheet H4.3**.

ITEM 44 SHEET E0.7 – PANEL SCHEDULES

A. Modify Panel "B" to two 42 circuit panels, one with Feed-Thru-Lugs
B. Add circuits and spares as indicated.
C. Replace drawings sheet E0.7 with **revised sheet E0.7**.

ITEM 45 SHEET E2.1 – FIRST FLOOR LIGHTING PLAN

A. Construction (Key) Notes; revise Note 2 to clarify Inverter/UPS power to lighting in Storm Shelter (Decon)/App Bay.
B. Revise First Floor Lighting Plan in **Rooms 120 and 119** as indicated.
C. Replace drawings sheet E2.1 with **revised sheet E2.1**.

ITEM 46 SHEET E3.1 – FIRST FLOOR POWER PLAN

A. Construction (Key) Notes; revise Note 3 to read "**Provide 120V 1PH power for pressure monitoring station."**
B. Add power for Air Pressure Monitoring Stations.
C. Add power to Fire Alarm Panel.
D. Add power to new vestibule unit heater.
E. Replace drawings sheet E3.1 with **revised sheet E3.1**.

ITEM 47 SHEET E4.1 – FIRST FLOOR SYSTEMS PLAN

A. General Notes; revise Note B to read "**System vender may utilize single station smoke/CO detection, tied to FA system in dorm rooms or system device combination smoke/CO detector with low frequency sounder base and 177 candela strobe as required by Code**"
B. Construction (Key) Notes; **delete Note 10** and **revise Notes 1, 2, and 8** as follows:
    1. Smoke Detector for release of magnetic door holder.
    2. Magnetic door holder powered from fire alarm panel by E.C. Holder furnished by door hardware supplier
    8. Smoke detector programmed for release of magnetic door holder.
C. First Floor Systems Plan;
    1. Clarify location of Fire Alarm Panel
    2. Coordinate exterior camera/card reader location with Technology Drawings.
    3. Clarify requirements for magnetic door holders and associated smoke detectors.
D. Replace drawings sheet E4.1 with **revised sheet E4.1**.

SECTION 08 1613 - FRP DOOR ASSEMBLIES

PART 1 - GENERAL

1.1 SUMMARY

A. Provide FRP (fiberglass reinforced polyester) doors as included

B. Hardware for FRP doors will be furnished under Division 08 - Door Hardware, except continuous gear hinges, but installed under this Section.

C. Related Work Specified Elsewhere

1. Section 087100 - Door Hardware.

1.2 SYSTEM PERFORMANCE

A. Provide door assemblies that have been designed and fabricated to comply with requirements for system performance characteristics listed below, as demonstrated by testing manufacturers corresponding standard systems according to test methods designated

1. Thermal Transmission (exterior doors): NFRC 100, "U" value of not more than 0.31 (BTU/HR by sq. ft. by degrees F) per AAMA 1503.01.
2. Airflow Leakage: ASTM E283, 0.01 CFM/S.F. @ 6.24 PSF
3. Flame Spread/Smoke Developed: Provide FRP doors and panels with the following ratings in accordance with ASTM E84-79a:
    a. Exterior panel of exterior door
        1) Flame Spread: Not greater than 170 (Class C).
        2) Smoke Developed: Not greater than 390 (Class C).
    b. Interior panels.
        1) Flame Spread: Not greater than 15 (Class A).
        2) Smoke Developed: Not greater than 310 (Class A).
4. Abrasion Resistance: Face sheet to have no greater than .029 average weight loss percentage after Taber Abrasion Test - 25 cycles at 500 gram weight with H-18 wheel.
5. Stain Resistance: Face sheet to be unaffected after 24 hour exposure to SVS-1 white spray enamel. Must retain 02 or .54 or less with MacBeth Coloimeter.
6. Chemical Resistance: Face sheet to be unaffected after 4 hour exposure to acetic acid (10 percent solution), acetone, sodium hypochlorite (5.25 percent solution) and hydrochloric acid (10 percent solution). No discoloration or panel damage will be allowed.
7. Intrusion Resistance: ASTM E2395, Grade 30. ASTM F1233, Class 1. ASTM E1886, 2 impacts have no observable damage.

1.3 ACTION SUBMITTALS

A. Product Data: Submit door manufacturer's product data, specifications, and installation instructions for each type of door.

1. Include details of core and edge construction, trim for openings and louvers (if any), and similar components.
2. Include certifications as may be required to show compliance with specifications.

B. Shop Drawings: Submit shop drawings indicating location and size of each door, elevation of each kind of door, details of construction, location and extent of hardware blocking, requirements for factory finishing, and other pertinent data.

C. Samples for Verification: For each type of exposed finish required:

1. Two sets of samples in manufacturer’s standard size.

1.4 INFORMATIONAL SUBMITTALS

A. Product Test Reports: For each type of thermally rated door assemblies for tests performed by a qualified testing agency indicating compliance with performance requirements

1.5 QUALITY ASSURANCE

A. Standards: Comply with the requirements and recommendations in applicable specification and standards by AAMA, except to the extent more stringent requirements are indicated.

B. Doors shall be provided to conform with the American with Disabilities Act Accessibility Guidelines (ADAAG) and State and Local Regulations. These requirements supersede Technical Specifications in this Section.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Doors shall be packaged individually and shipped in individual cartons. Doors shall be floated within the cartons, with no portion of the door or hardware to be in contact with the outer corrugated shell.

1.7 WARRANTY

A. The manufacturer shall warrant, agree to replace at no cost to the Owner, doors which fail within the warranty period. Failure of materials includes excessive deflection and deterioration of finish or construction in excess of normal weathering.

B. The warranty period to be 10 years from Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTUERS

A. Basis-of-Design Product: Subject to compliance with requirements, provide SL 17 Pebble Grain Hybrid Door as manufactured by Special-Lite, Inc. or comparable products by one of the following:

1. Cline Doors
2. REBCO, Inc.
3. Tiger Door, LLC.

2.2 MATERIALS

A. Construction

1. Door Thickness: 1-3/4 inches.
2. Stiles and Rails: Aluminum Alloy 6063-T5, minimum of 2-5/16-inch depth.
3. Corners: Mitered.
4. Provide joinery of 3/8-inch diameter full-width tie rods through extruded splines top and bottom as standard tubular shaped stiles and rails reinforced to accept hardware as specified.
5. Securing Internal Door Extrusions: 3/16-inch angle blocks and locking hex nuts for joinery. Welds, glue, or other methods are not acceptable.
6. Furnish extruded stiles and rails with integral reglets to accept face sheets. Lock face sheets into place to permit flush appearance.
7. Rail caps or other face sheet capture methods are not acceptable.
8. Extrude top and bottom rail legs for interlocking continuous weather bar.
9. Meeting Stiles: Pile brush weatherseals. Extrude meeting stile to include integral pocket to accept pile brush weatherseals.
10. Bottom of Door: Install bottom weather bar with nylon brush weatherstripping into extruded interlocking edge of bottom rail.

B. Door

1. Door Face Sheets

a. Standard face sheets shall be manufactured using a corrosion resistant resin system with light stabilizing additives. The resin shall be reinforced with fiberglass, 40% by weight.
b. Face sheet shall be 0.120 inch thick with finish color throughout. Abuse-resistant engineered surface.

2. Internal Construction

a. Core

1) Material: Poured-in-place polyurethane foam.
2) Density: Minimum of 5 pounds per cubic foot.

3) R-Value: Minimum of 9.

b. Aluminum Members:

1) Extrusions: ASTM B 221.
2) Sheet and Plate: ASTM B 209.
3) Alloy and Temper: As required by manufacturer for strength, corrosion resistance, application of required finish, and control of color.

c. Components: Door and frame components from same manufacturer.
d. Fasteners:

1) Material: Aluminum, 18-8 stainless steel, or other noncorrosive metal.
2) Compatibility: Compatible with items to be fastened.
3) Exposed Fasteners: Screws with finish matching items to be fastened.

e. Sill:

1) Adjustable nylon brush weatherstrip.

C. Door Frames

1. Tubular Aluminum - Alloy 6063-T5, 1/8-inch minimum wall thickness. Frame size 2" x 4-1/2"-inch.
2. Applied Door Stops: 0.625-inch high, with screws and weatherstripping. Door stop shall incorporate pressure gasketing for weathering seal. Counterpunch fastener holes in door stop to preserve full metal thickness under fastener head.
3. Frame Members: Thermally Broken Aluminum Frame Assembly.
4. Caulking: Caulk joints before assembling frame members.
5. Joints:
   a. Secure joints with fasteners.
   b. Provide hairline butt joint appearance.
6. Applied Stops: For side, transom, and borrowed lites and panels. Applied stops shall incorporate pressure gasketing for weathering seal. Reinforce with solid bar stock fill for frame hardware attachments.
7. Hardware:
   a. Premachine and reinforce frame members for hardware in accordance with manufacturer's standards and hardware schedule.
   b. Factory install hardware.
8. Anchors:
   a. Anchors appropriate for wall conditions to anchor framing to wall materials.
   b. Door Jamb and Header Mounting Holes: Maximum of 24-inch centers.
   c. Secure head and sill members of transom, side lites, and similar conditions.

D. Hardware

1. For hardware furnished by others, refer to Division 08 “Door Hardware”.
2. Meeting stiles on pairs of doors and top and bottom rigidity weather bars shall

have Schlegel type pile weatherstripping. The meeting stiles weatherstripping shall be placed in an adjustable astragal. No additional weatherstripping is required. No vinyl, plastic, or other type weatherstripping is acceptable.

3. FRP doors shall be premachined in accordance with templates from the specified hardware manufacturers and approved hardware schedule. Surface applied hardware shall utilize the Riv-Nut or similar blind fastener for attachment. FRP doors shall be reinforced for specified hardware in accordance with the manufacturer's standards. Hardware, excepting the door closer, threshold, or other field applied hardware as noted, shall be installed on the door assembly at the factory and shipped applied to the door assembly at the job site. Glass and glazing, louvers, or panels for the door assembly shall be factory supplied and installed and shipped installed to the job site.

2.3 FINISH

A. Aluminum

1. Clear Anodic Finish: AAMA 611, AA-M12C22A41, Class I, 0.018 mm or thicker.

B. FRP

1. Manufacturer’s custom colored pigmented sealer. The sealer shall be as durable and stain resistant as the FRP face sheet.

a. Color: Custom color, as selected by the Architect.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas to receive doors. Notify Architect of conditions that would adversely affect installation or subsequent use. Do not proceed with installation until unsatisfactory conditions are corrected.

B. Inspection

1. Installer shall examine aluminum doorframes and verify that frames are correct for proper hanging of corresponding doors. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Ensure openings to receive frames are plumb, level, square, and in tolerance.

3.3 INSTALLATION

A. Comply with manufacturer's recommendations and specifications for the installation of the doors and frames.

B. Set units plumb, level and true in line, without warp or rack of doors or frames. Anchor securely in place. Separate aluminum and other metal surfaces with bituminous coatings or other means as approved by the Architect.

C. Anchor frames securely in place.

D. Separate aluminum from other metal surfaces with bituminous coatings.

E. Set thresholds in bed of mastic and backseal.

F. Install exterior doors to be weathertight in closed position.

G. Stuff fiberglass insulation to fill any voids along aluminum frames on all exterior doors.

H. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by Architect.

I. Remove and replace damaged components as determined by Architect.

3.4 ADJUSTING

A. Adjust doors, hinges, and locksets for smooth operation without binding.

3.5 CLEANING

A. Clean surface promptly after installation of doors and frames, exercising care to avoid damage to the protective coatings in accordance with manufacturer's instructions.

B. Do not use harsh cleaning materials or methods that would damage finish.

3.6 PROTECTION

A. Protect installed doors to ensure that, except for normal weathering, doors will be without damage or deterioration at time of substantial completion.

B. Ensure that the doors and frames will be without damage or deterioration (other than normal weathering) at the time of acceptance.

C. Provide Owner with all adjustment tools and instructions sheets. Arrange an inservice session to Owner at Owner's convenience.

END OF SECTION 08 1613

SECTION 32 1216 - ASPHALT PAVING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:
   1. Hot-mix asphalt paving.
   2. Asphalt surface treatments.
   3. Pavement-marking paint.

B. Related Sections:
   1. Division 31 Section "Earth Moving" for aggregate subbase and base courses and for aggregate pavement shoulders.
   2. Division 32 Section "Concrete Paving Joint Sealants" for joint sealants and fillers at paving terminations.

1.3 DEFINITION

A. Hot-Mix Asphalt Paving Terminology: Refer to ASTM D 8 for definitions of terms.

1.4 SUBMITTALS

A. Product Data: For each type of product indicated. Include technical data and tested physical and performance properties.

B. Shop Drawings: Indicate pavement markings, lane separations, and defined parking spaces. Indicate, with international symbol of accessibility, spaces allocated for people with disabilities.

C. Material Certificates: For each paving material, from manufacturer.

D. Material Test Reports: For each paving material.

1.5 QUALITY ASSURANCE

A. Testing Agency Qualifications: Qualified according to ASTM D 3666 for testing indicated.

B. Regulatory Requirements: Comply with materials, workmanship, and other applicable standards of ODOT for asphalt paving work.

C. Preinstallation Conference: Conduct conference at regular project meeting.

1.6 PROJECT CONDITIONS

A. Environmental Limitations: Do not apply asphalt materials if subgrade is wet or excessively damp, if rain is imminent or expected before time required for adequate cure, or if the following conditions are not met:

1. Tack Coat: Minimum surface temperature of 60 deg F.
2. Asphalt Base Course: Minimum surface temperature of 40 deg F and rising at time of placement.
3. Asphalt Surface Course: Minimum surface temperature of 60 deg F at time of placement.

B. Pavement-Marking Paint: Proceed with pavement marking only on clean, dry surfaces and at a minimum ambient or surface temperature of 55 deg F for water-based materials, and not exceeding 95 deg F.

PART 2 - PRODUCTS

2.1 AGGREGATES

A. General: Use materials and gradations that have performed satisfactorily in previous installations.

B. Coarse Aggregate: ASTM D 692, sound; angular crushed stone or crushed gravel.

C. Fine Aggregate: ASTM D 1073 or AASHTO M 29, sharp-edged natural sand or sand prepared from stone or gravel.

1. For hot-mix asphalt, limit natural sand to a maximum of 20 percent by weight of the total aggregate mass.

2.2 ASPHALT MATERIALS

A. Asphalt Binder: AASHTO M 320 or AASHTO MP 1a, PG 64-22.

B. Asphalt Cement: ASTM D 3381 for viscosity-graded material.

C. Tack Coat: ASTM D 977 or AASHTO M 140 emulsified asphalt, or ASTM D 2397 or AASHTO M 208 cationic emulsified asphalt, slow setting, diluted in water, of suitable grade and consistency for application.

D. Water: Potable.

E. Undersealing Asphalt: ASTM D 3141, pumping consistency.

2.3 AUXILIARY MATERIALS

A. Herbicide: Commercial chemical for weed control, registered by the EPA. Provide in granular, liquid, or wettable powder form.

B. Sand: ASTM D 1073 or AASHTO M 29, Grade Nos. 2 or 3.

C. Paving Geotextile: AASHTO M 288, nonwoven polypropylene; resistant to chemical attack, rot, and mildew; and specifically designed for paving applications. Use if required by unforeseen conditions.

D. Joint Sealant: ASTM D 6690 or AASHTO M 324, Type I, hot-applied, single-component, polymer-modified bituminous sealant.

E. Pavement-Marking Paint: Alkyd-resin type, lead and chromate free, ready mixed, complying with AASHTO M 248, Type N; colors complying with FS TT-P-1952.

1. Color: White (automobiles); Yellow (busses).

F. Wheel Stops: Precast, air-entrained concrete, 2500-psi minimum compressive strength, 4-1/2 inches high by 9 inches wide by 72 inches long. Provide chamfered corners, drainage slots on underside, and holes for anchoring to substrate.

1. Dowels: Galvanized steel, 3/4-inch diameter, 10-inch minimum length.

2.4 MIXES

A. Hot-Mix Asphalt: Dense, hot-laid, hot-mix asphalt plant mixes meeting ODOT specifications designed according to procedures in AI MS-2, "Mix Design Methods for Asphalt Concrete and Other Hot-Mix Types"; and complying with the following requirements:

1. Provide mixes with a history of satisfactory performance in geographical area where Project is located.
2. Base Course: ODOT Item 448 Type 2 Pg 64-22.
3. Surface Course: ODOT Item 448 Type 1, (449) Pg 64-22 with an application of 'Reclamite' Asphalt Rejuvenating Agent).

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that subgrade is dry and in suitable condition to begin paving.

B. Proof-roll subgrade below pavements with heavy pneumatic-tired equipment to identify soft pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.

1. Completely proof-roll subgrade in one direction, repeating proof-rolling in direction perpendicular to first direction. Limit vehicle speed to 3 mph.
2. Proof roll with a loaded 10-wheel, tandem-axle dump truck weighing not less than 15 tons.
3. Excavate soft spots, unsatisfactory soils, and areas of excessive pumping or rutting, as determined by Architect, and replace with compacted backfill or fill as directed.

C. Proceed with paving only after unsatisfactory conditions have been corrected.

D. Verify that utilities, traffic loop detectors, and other items requiring a cut and installation beneath the asphalt surface have been completed and that asphalt surface has been repaired flush with adjacent asphalt prior to beginning installation of imprinted asphalt.

3.2 PATCHING

A. Hot-Mix Asphalt Pavement: Saw cut perimeter of patch and excavate existing pavement section to sound base. Excavate rectangular or trapezoidal patches, extending 12 inches into adjacent sound pavement, unless otherwise indicated. Cut excavation faces vertically. Remove excavated material. Recompact existing unbound-aggregate base course to form new subgrade.

B. Tack Coat: Apply uniformly to vertical surfaces abutting or projecting into new, hot-mix asphalt paving at a rate of 0.05 to 0.15 gal./sq. yd..

1. Allow tack coat to cure undisturbed before applying hot-mix asphalt paving.
2. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.

C. Patching: Partially fill excavated pavements with hot-mix asphalt base mix and, while still hot, compact. Cover asphalt base course with compacted, hot-mix surface layer finished flush with adjacent surfaces.

3.3 REPAIRS

A. Leveling Course: Install and compact leveling course consisting of hot-mix asphalt surface course to level sags and fill depressions deeper than 1 inch in existing pavements.

1. Install leveling wedges in compacted lifts not exceeding 3 inches thick.

B. Crack and Joint Filling: Remove existing joint filler material from cracks or joints to a depth of 1/4 inch.

1. Clean cracks and joints in existing hot-mix asphalt pavement.

2. Use emulsified-asphalt slurry to seal cracks and joints less than 1/4 inch wide. Fill flush with surface of existing pavement and remove excess.
3. Use hot-applied joint sealant to seal cracks and joints more than 1/4 inch wide. Fill flush with surface of existing pavement and remove excess.

3.4 SURFACE PREPARATION

A. General: Immediately before placing asphalt materials, remove loose and deleterious material from substrate surfaces. Ensure that prepared subgrade is ready to receive paving.

B. Herbicide Treatment: Apply herbicide according to manufacturer's recommended rates and written application instructions. Apply to dry, prepared subgrade or surface of compacted-aggregate base before applying paving materials.

1. Mix herbicide with prime coat if formulated by manufacturer for that purpose.

C. Tack Coat: Apply uniformly to surfaces of existing pavement at a rate of 0.01 to 0.15 gal./sq. yd.

1. Allow tack coat to cure undisturbed before applying hot-mix asphalt paving.
2. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.

3.5 PAVING GEOTEXTILE INSTALLATION

A. Apply asphalt binder uniformly to existing pavement surfaces at a rate of 0.20 to 0.30 gal./sq. yd..

B. Place paving geotextile promptly according to manufacturer's written instructions. Broom or roll geotextile smooth and free of wrinkles and folds. Overlap longitudinal joints 4 inches and transverse joints 6 inches.

1. Protect paving geotextile from traffic and other damage and place hot-mix asphalt paving overlay the same day.

3.6 HOT-MIX ASPHALT PLACING

A. Machine place hot-mix asphalt on prepared surface, spread uniformly, and strike off. Place asphalt mix by hand to areas inaccessible to equipment in a manner that prevents segregation of mix. Place each course to required grade, cross section, and thickness when compacted.

1. Place hot-mix asphalt base course in number of lifts and thicknesses indicated.
2. Place hot-mix asphalt surface course in single lift.
3. Spread mix at minimum temperature of 250 deg F.
4. Begin applying mix along centerline of crown for crowned sections and on high side of one-way slopes unless otherwise indicated.

5. Regulate paver machine speed to obtain smooth, continuous surface free of pulls and tears in asphalt-paving mat.

B. Place paving in consecutive strips not less than 10 feet wide unless infill edge strips of a lesser width are required.

1. After first strip has been placed and rolled, place succeeding strips and extend rolling to overlap previous strips. Complete a section of asphalt base course before placing asphalt surface course.

C. Promptly correct surface irregularities in paving course behind paver. Use suitable hand tools to remove excess material forming high spots. Fill depressions with hot-mix asphalt to prevent segregation of mix; use suitable hand tools to smooth surface.

3.7 JOINTS

A. Construct joints to ensure a continuous bond between adjoining paving sections. Construct joints free of depressions, with same texture and smoothness as other sections of hot-mix asphalt course.

1. Clean contact surfaces and apply tack coat to joints.
2. Offset longitudinal joints, in successive courses, a minimum of 6 inches.
3. Offset transverse joints, in successive courses, a minimum of 24 inches.
4. Construct transverse joints at each point where paver ends a day's work and resumes work at a subsequent time. Construct these joints using either "bulkhead" or "papered" method according to AI MS-22, for both "Ending a Lane" and "Resumption of Paving Operations.".
5. Compact joints as soon as hot-mix asphalt will bear roller weight without excessive displacement.
6. Compact asphalt at joints to a density within 2 percent of specified course density.

3.8 COMPACTION

A. General: Begin compaction as soon as placed hot-mix paving will bear roller weight without excessive displacement. Compact hot-mix paving with hot, hand tampers or with vibratory-plate compactors in areas inaccessible to rollers.

1. Complete compaction before mix temperature cools to 185 deg F.

B. Breakdown Rolling: Complete breakdown or initial rolling immediately after rolling joints and outside edge. Examine surface immediately after breakdown rolling for indicated crown, grade, and smoothness. Correct laydown and rolling operations to comply with requirements.

C. Intermediate Rolling: Begin intermediate rolling immediately after breakdown rolling while hot-mix asphalt is still hot enough to achieve specified density. Continue rolling until hot-mix asphalt course has been uniformly compacted to the following density:

1. Average Density: 96 percent of reference laboratory density according to ASTM D 6927 or AASHTO T 245, but not less than 94 percent nor greater than 100 percent.

D. Finish Rolling: Finish roll paved surfaces to remove roller marks while hot-mix asphalt is still warm.

E. Edge Shaping: While surface is being compacted and finished, trim edges of pavement to proper alignment. Bevel edges while asphalt is still hot; compact thoroughly.

F. Repairs: Remove paved areas that are defective or contaminated with foreign materials and replace with fresh, hot-mix asphalt. Compact by rolling to specified density and surface smoothness.

G. Protection: After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened.

H. Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked.

3.9 INSTALLATION TOLERANCES

A. Pavement Thickness: Compact each course to produce the thickness indicated within the following tolerances:

1. Base Course: Plus or minus 1/2 inch.
2. Surface Course: Plus 1/4 inch, no minus.

B. Pavement Surface Smoothness: Compact each course to produce a surface smoothness within the following tolerances as determined by using a 10-foot straightedge applied transversely or longitudinally to paved areas:

1. Base Course: 1/4 inch.
2. Surface Course: 1/8 inch.
3. Crowned Surfaces: Test with crowned template centered and at right angle to crown. Maximum allowable variance from template is 1/4 inch.

3.10 PAVEMENT MARKING

A. Do not apply pavement-marking paint until layout, colors, and placement have been verified with Architect.

B. Allow paving to age for 30 days before starting pavement marking.

C. Sweep and clean surface to eliminate loose material and dust.

D. Apply paint with mechanical equipment to produce pavement markings, of dimensions indicated, with uniform, straight edges. Apply at manufacturer's recommended rates to provide a minimum wet film thickness of 15 mils.

3.11 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.

B. Thickness: In-place compacted thickness of hot-mix asphalt courses will be determined according to ASTM D 3549.

C. Surface Smoothness: Finished surface of each hot-mix asphalt course will be tested for compliance with smoothness tolerances.

D. In-Place Density: Testing agency will take samples of uncompacted paving mixtures and compacted pavement according to ASTM D 979 or AASHTO T 168.

1. Reference maximum theoretical density will be determined by averaging results from four samples of hot-mix asphalt-paving mixture delivered daily to site, prepared according to ASTM D 2041, and compacted according to job-mix specifications.
2. In-place density of compacted pavement will be determined by testing core samples according to ASTM D 1188 or ASTM D 2726.

    a. One core sample will be taken for every 1000 sq. yd. or less of installed pavement, with no fewer than 3 cores taken.
    b. Field density of in-place compacted pavement may also be determined by nuclear method according to ASTM D 2950 and correlated with ASTM D 1188 or ASTM D 2726.

E. Replace and compact hot-mix asphalt where core tests were taken.

F. Remove and replace or install additional hot-mix asphalt where test results or measurements indicate that it does not comply with specified requirements.

3.12 DISPOSAL

A. Except for material indicated to be recycled, remove excavated materials from Project site and legally dispose of them in an EPA-approved landfill.

END OF SECTION 321216

SECTION 32 1313 - CONCRETE PAVING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. This Section includes exterior cement concrete pavement for the following:

1. Driveways and roadways.
2. Curbs and gutters.
3. Walkways, sidewalks.

B. Related Sections include the following:

1. Division 03 Section "Cast-in-Place Concrete" for general building applications of concrete.
2. Division 31 Section "Earth Moving" for subgrade preparation, grading, and subbase course.
3. Division 32 Section "Concrete Paving Joint Sealants" for joint sealants of joints in concrete pavement and at isolation joints of concrete pavement with adjacent construction.

1.3 DEFINITIONS

A. Cementitious Materials: Portland cement alone or in combination with one or more of blended hydraulic cement, fly ash and other pozzolans, and ground granulated blast-furnace slag.

1.4 SUBMITTALS

A. Product Data: For each type of manufactured material and product indicated.

B. Design Mixtures: For each concrete pavement mixture. Include alternate mixture designs when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.

C. Qualification Data: For testing agency.

D. Material Test Reports: From a qualified testing agency indicating and interpreting test results for compliance of the following with requirements indicated, based on comprehensive testing of current materials:

1. Aggregates. Include service record data indicating absence of deleterious expansion of concrete due to alkali-aggregate reactivity.

E. Material Certificates: Signed by manufacturers certifying that each of the following materials complies with requirements:

1. Cementitious materials.
2. Steel reinforcement and reinforcement accessories.
3. Admixtures.
4. Curing compounds.
5. Joint fillers.

F. Field quality-control test reports.

G. Mock-ups:

1. Provide mock-up sample area of Medium-to-Coarse-Textured Broom Finish for Architect’s review and approval on concrete walkways or other areas scheduled to receive this finish.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: Manufacturer of ready-mixed concrete products who complies with ASTM C 94/C 94M requirements for production facilities and equipment.

1. Manufacturer certified according to NRMCA's "Certification of Ready Mixed Concrete Production Facilities."

B. Testing Agency Qualifications: An independent agency qualified according to ASTM C 1077 and ASTM E 329 for testing indicated, as documented according to ASTM E 548.

1. Personnel conducting field tests shall be qualified as ACI Concrete Field Testing Technician, Grade 1, according to ACI CP-01 or an equivalent certification program.

C. ACI Publications: Comply with ACI 301, "Specification for Structural Concrete," unless modified by requirements in the Contract Documents.

D. Concrete Testing Service: Engage a qualified independent testing agency to perform material evaluation tests and to design concrete mixtures.

E. Preinstallation Conference: Conduct conference at scheduled project meeting.

a. Before submitting design mixtures, review concrete pavement mixture design and examine procedures for ensuring quality of concrete materials and concrete pavement construction practices.

1.6 PROJECT CONDITIONS

A. Traffic Control: Maintain access for vehicular and pedestrian traffic as required for other construction activities.

PART 2 - PRODUCTS

2.1 FORMS

A. Form Materials: Plywood, metal, metal-framed plywood, or other approved panel-type materials to provide full-depth, continuous, straight, smooth exposed surfaces.

1. Use flexible or curved forms for curves with a radius 100 feet or less.

B. Form-Release Agent: Commercially formulated form-release agent that will not bond with, stain, or adversely affect concrete surfaces and will not impair subsequent treatments of concrete surfaces.

2.2 STEEL REINFORCEMENT

A. Recycled Content: Provide steel reinforcement with an average recycled content of steel so postconsumer recycled content plus one-half of preconsumer recycled content is not less than 25 percent.

B. Plain-Steel Welded Wire Reinforcement: ASTM A 185, fabricated from as-drawn steel wire into flat sheets.

C. Reinforcing Bars: ASTM A 615/A 615M, Grade 60; deformed.

D. Joint Dowel Bars: Plain steel bars, ASTM A 615/A 615M, Grade 60. Cut bars true to length with ends square and free of burrs.

E. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars, welded wire reinforcement, and dowels in place. Manufacture bar supports according to CRSI's "Manual of Standard Practice" from steel wire, plastic, or precast concrete of greater compressive strength than concrete, and as follows:

1. Equip wire bar supports with sand plates or horizontal runners where base material will not support chair legs.

2.3 CONCRETE MATERIALS

A. Cementitious Material: Use one of the following cementitious materials, of the same type, brand, and source throughout the Project:

1. Portland Cement: ASTM C 150, Type I:

B. Normal-Weight Aggregates: ASTM C 33, coarse aggregate, uniformly graded. Provide aggregates from a single source.

1. Maximum Coarse-Aggregate Size: 3/4 inch nominal.
2. Fine Aggregate: Free of materials with deleterious reactivity to alkali in cement.

C. Water: ASTM C 94/C 94M.

D. Air-Entraining Admixture: ASTM C 260.

2.4 CURING MATERIALS

A. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. dry.

B. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.

C. Water: Potable.

D. Clear Waterborne Membrane-Forming Curing Compound: ASTM C 309, Type 1, Class B.

1. Products:

a. Anti-Hydro International, Inc.; AH Curing Compound #2 DR WB.
b. Dayton Superior Corporation; Day Chem Rez Cure (J-11-W).
c. Euclid Chemical Company (The); Kurez DR VOX.
d. Kaufman Products, Inc.; Thinfilm 420.
e. Lambert Corporation; Aqua Kure-Clear.
f. L&M Construction Chemicals, Inc.; L&M Cure R.
g. Meadows, W. R., Inc.; 1100 Clear.

2.5 RELATED MATERIALS

A. Expansion- and Isolation-Joint-Filler Strips: ASTM D 1751, asphalt-saturated cellulosic fiber or ASTM D 1752, cork or self-expanding cork.

B. Bonding Agent: ASTM C 1059, Type II, non-redispersible, acrylic emulsion or styrene butadiene.

2.6 CONCRETE MIXTURES

A. Prepare design mixtures, proportioned according to ACI 301, for each type and strength of normal-weight concrete determined by either laboratory trial mixes or field experience.

1. Use a qualified independent testing agency for preparing and reporting proposed concrete mixture designs for the trial batch method.

B. Proportion mixtures to provide normal-weight concrete with the following properties:

1. Compressive Strength (28 Days): 4000 psi.
2. Maximum Water-Cementitious Materials Ratio at Point of Placement: 0.50.
3. Slump Limit: 4 inches.

C. Add air-entraining admixture at manufacturer's prescribed rate to result in normal-weight concrete at point of placement having an air content as follows:

1. Air Content: 6 percent plus or minus 1.5 percent for 3/4-inch nominal maximum aggregate size

D. Chemical Admixtures: Use admixtures according to manufacturer's written instructions.

1. Use water-reducing and retarding admixture when required by high temperatures, low humidity, or other adverse placement conditions.

2.7 CONCRETE MIXING

A. Ready-Mixed Concrete: Measure, batch, and mix concrete materials and concrete according to ASTM C 94/C 94M and ASTM C 1116. Furnish batch certificates for each batch discharged and used in the Work.

1. When air temperature is between 85 deg F and 90 deg F, reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F, reduce mixing and delivery time to 60 minutes.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine exposed subgrades and subbase surfaces for compliance with requirements for dimensional, grading, and elevation tolerances.

B. Proceed with concrete pavement operations only after nonconforming conditions have been corrected and subgrade is ready to receive pavement.

3.2 PREPARATION

A. Remove loose material from compacted subbase surface immediately before placing concrete.

3.3 EDGE FORMS AND SCREED CONSTRUCTION

A. Set, brace, and secure edge forms, bulkheads, and intermediate screed guides for pavement to required lines, grades, and elevations. Install forms to allow continuous progress of work and so forms can remain in place at least 24 hours after concrete placement.

B. Clean forms after each use and coat with form-release agent to ensure separation from concrete without damage.

3.4 STEEL REINFORCEMENT

A. General: Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.

B. Clean reinforcement of loose rust and mill scale, earth, ice, or other bond-reducing materials.

C. Arrange, space, and securely tie bars and bar supports to hold reinforcement in position during concrete placement. Maintain minimum cover to reinforcement.

D. Install welded wire reinforcement in lengths as long as practicable. Lap adjoining pieces at least one full mesh, and lace splices with wire. Offset laps of adjoining widths to prevent continuous laps in either direction.

E. Install fabricated bar mats in lengths as long as practicable. Handle units to keep them flat and free of distortions. Straighten bends, kinks, and other irregularities, or replace units as required before placement. Set mats for a minimum 2-inch overlap of adjacent mats.

3.5 JOINTS

A. General: Form construction, isolation, and contraction joints and tool edgings true to line with faces perpendicular to surface plane of concrete. Construct transverse joints at right angles to centerline, unless otherwise indicated.

B. Construction Joints: Set construction joints at side and end terminations of pavement and at locations where pavement operations are stopped for more than one-half hour unless pavement terminates at isolation joints.

1. Continue steel reinforcement across construction joints, unless otherwise indicated. Do not continue reinforcement through sides of pavement strips, unless otherwise indicated.

2. Provide tie bars at sides of pavement strips where indicated.
3. Butt Joints: Use bonding agent at joint locations where fresh concrete is placed against hardened or partially hardened concrete surfaces.
4. Keyed Joints: Provide preformed keyway-section forms or bulkhead forms with keys, unless otherwise indicated. Embed keys at least 1-1/2 inches into concrete.
5. Doweled Joints: Install dowel bars and support assemblies at joints where indicated. Lubricate or asphalt-coat one-half of dowel length to prevent concrete bonding to one side of joint.

C. Isolation Joints: Form isolation joints of preformed joint-filler strips abutting concrete curbs, catch basins, manholes, inlets, structures, walks, other fixed objects, and where indicated.

1. Locate expansion joints at intervals of 50 feet, unless otherwise indicated.
2. Extend joint fillers full width and depth of joint.
3. Terminate joint filler not less than 1/2 inch or more than 1 inch below finished surface if joint sealant is indicated.
4. Place top of joint filler flush with finished concrete surface if joint sealant is not indicated.
5. Furnish joint fillers in one-piece lengths. Where more than one length is required, lace or clip joint-filler sections together.
6. Protect top edge of joint filler during concrete placement with metal, plastic, or other temporary preformed cap. Remove protective cap after concrete has been placed on both sides of joint.

D. Contraction Joints: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of the concrete thickness, as follows to match jointing of existing adjacent concrete pavement:

1. Grooved Joints: Form contraction joints after initial floating by grooving and finishing each edge of joint with grooving tool to a 3/8-inch radius. Repeat grooving of contraction joints after applying surface finishes.
2. Doweled Contraction Joints: Install dowel bars and support assemblies at joints where indicated. Lubricate or asphalt coat one-half of dowel length to prevent concrete bonding to one side of joint.

E. Edging: After initial floating, tool edges of paving, gutters, curbs, walkways and joints in concrete with an edging tool to a 3/8-inch radius. Repeat tooling of edges after applying surface finishes.

3.6 CONCRETE PLACEMENT

A. Inspection: Before placing concrete, inspect and complete formwork installation, steel reinforcement, and items to be embedded or cast in. Notify other trades to permit installation of their work.

B. Remove snow, ice, or frost from subbase surface and reinforcement before placing concrete. Do not place concrete on frozen surfaces.

C. Moisten subbase to provide a uniform dampened condition at time concrete is placed. Do not place concrete around manholes or other structures until they are at required finish elevation and alignment.

D. Comply with ACI 301 requirements for measuring, mixing, transporting, and placing concrete.

E. Do not add water to concrete during delivery or at Project site.

F. Do not add water to fresh concrete after testing.

G. Deposit and spread concrete in a continuous operation between transverse joints. Do not push or drag concrete into place or use vibrators to move concrete into place.

H. Consolidate concrete according to ACI 301 by mechanical vibrating equipment supplemented by hand spading, rodding, or tamping.

1. Consolidate concrete along face of forms and adjacent to transverse joints with an internal vibrator. Keep vibrator away from joint assemblies, reinforcement, or side forms. Use only square-faced shovels for hand spreading and consolidation. Consolidate with care to prevent dislocating reinforcement, dowels, and joint devices.

I. Screed pavement surfaces with a straightedge and strike off.

J. Commence initial floating using bull floats or darbies to impart an open textured and uniform surface plane before excess moisture or bleed water appears on the surface. Do not further disturb concrete surfaces before beginning finishing operations or spreading surface treatments.

K. Curbs and Gutters: When automatic machine placement is used for curb and gutter placement, submit revised mix design and laboratory test results that meet or exceed requirements. Produce curbs and gutters to required cross section, lines, grades, finish, and jointing as specified for formed concrete. If results are not approved, remove and replace with formed concrete.

L. Cold-Weather Placement: Comply with ACI 306.1 and as follows. Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures.

1. When air temperature has fallen to or is expected to fall below 40 deg F, uniformly heat water and aggregates before mixing to obtain a concrete mixture temperature of not less than 50 deg F and not more than 80 deg F at point of placement.
2. Do not use frozen materials or materials containing ice or snow.
3. Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators unless otherwise specified and approved in mix designs.

M. Hot-Weather Placement: Comply with ACI 301 and as follows when hot-weather conditions exist:

1. Cool ingredients before mixing to maintain concrete temperature below 90 deg F at time of placement. Chilled mixing water or chopped ice may be used to control temperature, provided water equivalent of ice is calculated to total amount of mixing water. Using liquid nitrogen to cool concrete is Contractor's option.
2. Cover steel reinforcement with water-soaked burlap so steel temperature will not exceed ambient air temperature immediately before embedding in concrete.
3. Fog-spray forms, steel reinforcement, and subgrade just before placing concrete. Keep subgrade moisture uniform without standing water, soft spots, or dry areas.

3.7 FLOAT FINISHING

A. General: Do not add water to concrete surfaces during finishing operations.

B. Float Finish: Begin the second floating operation when bleed-water sheen has disappeared and concrete surface has stiffened sufficiently to permit operations. Float surface with power-driven floats, or by hand floating if area is small or inaccessible to power units. Finish surfaces to true planes. Cut down high spots and fill low spots. Refloat surface immediately to uniform granular texture.

1. Medium-to-Coarse-Textured Broom Finish: Provide a coarse finish by striating float-finished concrete surface 1/16 to 1/8 inch deep with a stiff-bristled broom, perpendicular to line of traffic.

3.8 CONCRETE PROTECTION AND CURING

A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.

B. Comply with ACI 306.1 for cold-weather protection.

C. Evaporation Retarder: Apply evaporation retarder to concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.

D. Begin curing after finishing concrete but not before free water has disappeared from concrete surface.

E. Curing Methods: Cure concrete by moisture curing, moisture-retaining-cover curing, curing compound, or a combination of these as follows:

1. Moist Curing: Keep surfaces continuously moist for not less than seven days with the following materials:

a. Water.
b. Continuous water-fog spray.
c. Absorptive cover, water saturated and kept continuously wet. Cover concrete surfaces and edges with 12-inch lap over adjacent absorptive covers.

2. Curing Compound: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating and repair damage during curing period.

3.9 PAVEMENT TOLERANCES

A. Comply with tolerances of ACI 117 and as follows:

1. Elevation: 1/4 inch.
2. Thickness: Plus 3/8 inch, minus 1/4 inch.
3. Surface: Gap below 10-foot- long, unleveled straightedge not to exceed 1/4 inch.
4. Joint Width: Plus 1/8 inch, no minus.

3.10 FIELD QUALITY CONTROL

A. Testing Agency: Owner will engage a qualified independent testing and inspecting agency to perform field tests and inspections and prepare test reports.

B. Testing Services: Testing of composite samples of fresh concrete obtained according to ASTM C 172 shall be performed according to the following requirements:

1. Testing Frequency: Obtain at least 1 composite sample for each 5000 sq. ft. or fraction thereof of each concrete mix placed each day.

    a. When frequency of testing will provide fewer than five compressive-strength tests for each concrete mixture, testing shall be conducted from at least five randomly selected batches or from each batch if fewer than five are used.

2. Slump: ASTM C 143/C 143M; one test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mix. Perform additional tests when concrete consistency appears to change.
3. Air Content: ASTM C 231, pressure method; one test for each composite sample, but not less than one test for each day's pour of each concrete mix.
4. Concrete Temperature: ASTM C 1064; one test hourly when air temperature is 40 deg F and below and when 80 deg F and above, and one test for each composite sample.
5. Compression Test Specimens: ASTM C 31/C 31M; cast and laboratory cure one set of three standard cylinder specimens for each composite sample.
6. Compressive-Strength Tests: ASTM C 39/C 39M; test 1 specimen at 7 days and 2 specimens at 28 days.

    a. A compressive-strength test shall be the average compressive strength from 2 specimens obtained from same composite sample and tested at 28 days.

C. Strength of each concrete mix will be satisfactory if average of any 3 consecutive compressive-strength tests equals or exceeds specified compressive strength and no

compressive-strength test value falls below specified compressive strength by more than 500 psi.

D. Test results shall be reported in writing to Architect, concrete manufacturer, and Contractor within 48 hours of testing. Reports of compressive-strength tests shall contain Project identification name and number, date of concrete placement, name of concrete testing and inspecting agency, location of concrete batch in Work, design compressive strength at 28 days, concrete mixture proportions and materials, compressive breaking strength, and type of break for both 7- and 28-day tests.

E. Nondestructive Testing: Impact hammer, sonoscope, or other nondestructive device may be permitted by Architect but will not be used as sole basis for approval or rejection of concrete.

F. Additional Tests: Testing and inspecting agency shall make additional tests of concrete when test results indicate that slump, air entrainment, compressive strengths, or other requirements have not been met, as directed by Architect.

G. Remove and replace concrete pavement where test results indicate that it does not comply with specified requirements.

H. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

3.11 REPAIRS AND PROTECTION

A. Remove and replace concrete pavement that is broken, damaged, or defective or that does not comply with requirements in this Section.

B. Drill test cores, where directed by Architect, when necessary to determine magnitude of cracks or defective areas. Fill drilled core holes in satisfactory pavement areas with portland cement concrete bonded to pavement with epoxy adhesive.

C. Protect concrete from damage. Exclude traffic from pavement for at least 14 days after placement. When construction traffic is permitted, maintain pavement as clean as possible by removing surface stains and spillage of materials as they occur.

D. Maintain concrete pavement free of stains, discoloration, dirt, and other foreign material. Sweep concrete pavement not more than two days before date scheduled for Substantial Completion inspections.

E. Protect tactile tiles against damage during construction period to comply with Tactile Tile manufacturer’s specification.

F. Protect tactile tiles against damage from rolling loads following installation by covering with plywood or hardwood.

G. Clean tactile tiles not more than four days prior to date scheduled for inspection intended to establish date of substantial completion in each area of project. Clean tactile tile by method specified by Tactile Tile manufacturer.

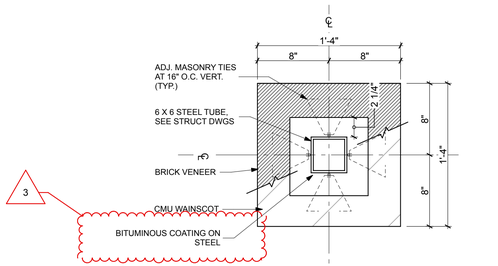
H. Comply with manufacturers maintenance manual for cleaning and maintaining tile surface and it is recommended to perform annual inspections for safety and tile integrity.

3.12 CONCRETE FINISH SCHEDULE

CONCRETE FINISH SCHEDULE

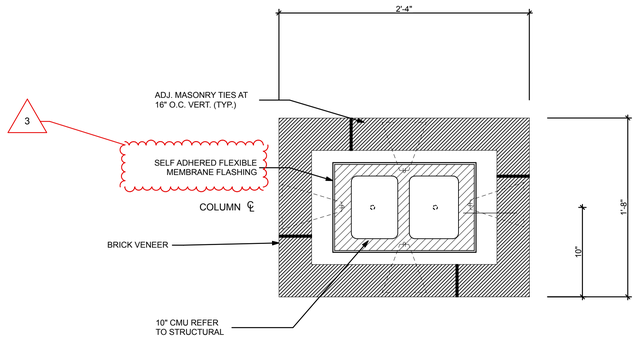
ITEM	FINISH
Lean concrete fill at soft soils or over Excavations	N/A
Exterior walks, stoops, steps, aprons, and curbs, and exterior concrete not otherwise indicated	Medium-to-Coarse-Textured Broom Finish
Exterior formed concrete exposed to view not otherwise indicated	Fine Broom Finish

END OF SECTION 32 1313



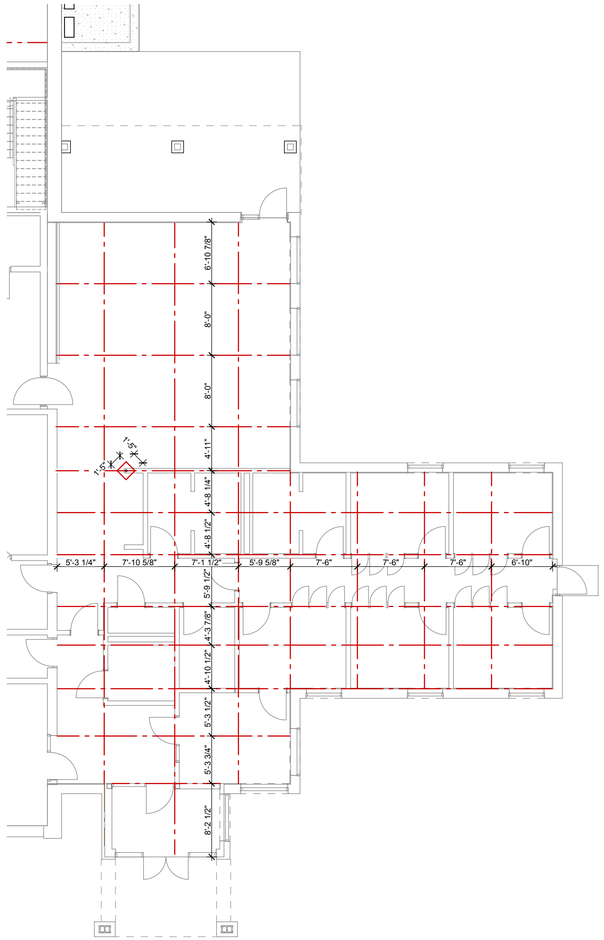
1 A2.4 **COLUMN DETAIL**

SCALE: 1 1/2" = 1'-0"



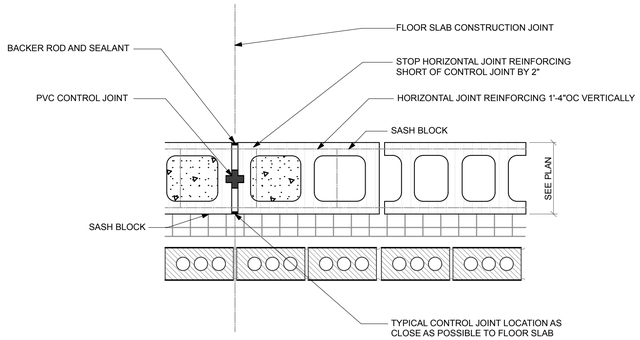
3 A2.4 **ENTRY COLUMN DETAIL**

SCALE: 1 1/2"= 1'-0"



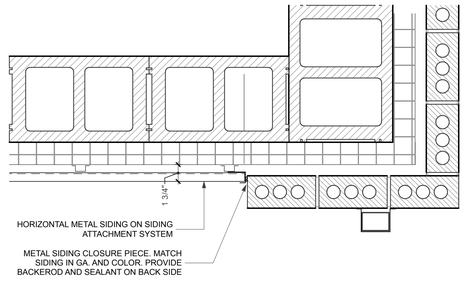
6 A2.4 **CONTROL JOINT DIAGRAM**

SCALE: 1/8" = 1'-0"



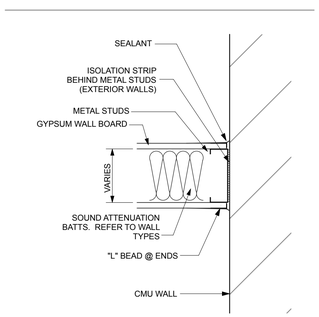
2 A2.4 **CONTROL JOINT**

SCALE: 1-1/2" = 1'-0"



4 A2.4 **METAL RAINSCREEN TO BRICK TRANS.**

SCALE: 1 1/2"= 1'-0"



5 A2.4 **STUD TO MASONRY WALL INTERSECTION**

SCALE: 1 1/2"= 1'-0"

FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS
226 N. MIAMI AVE.
P.O. BOX 220
SIDNEY, OHIO 45365
(937) 492-6983
www.freytaginc.com
info@freytaginc.com

NEW CONSTRUCTION OF
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CITY OF SIDNEY

2324 CAMPBELL ROAD SIDNEY, OH 45365

STATE OF OHIO
DANIEL J. FREYTAG 8533
REGISTERED ARCHITECT

Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

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2 ADDENDUM 3 1/24/2025

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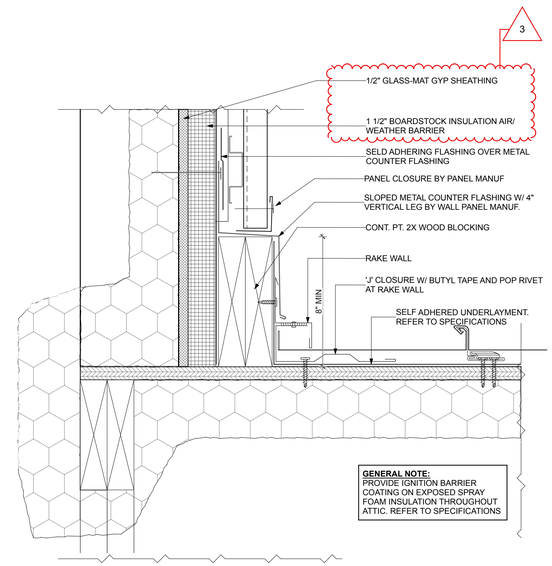
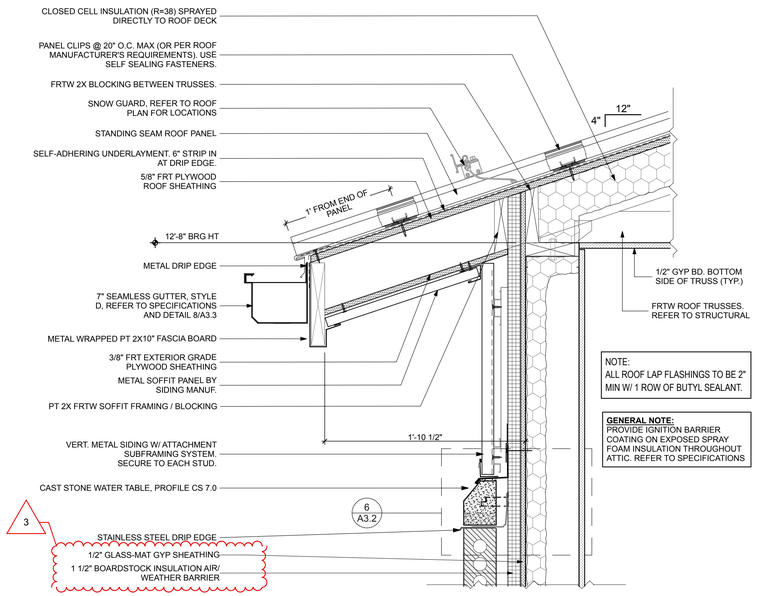
AF/RS	DF

PLAN DETAILS

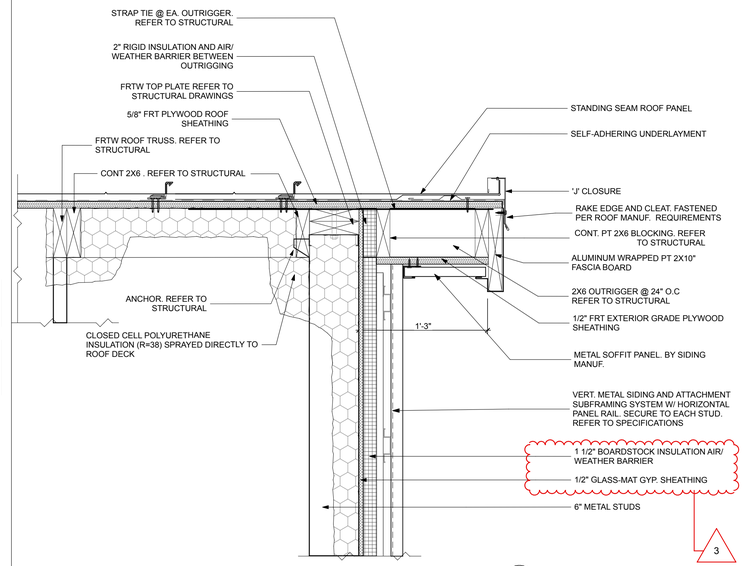
A2.4

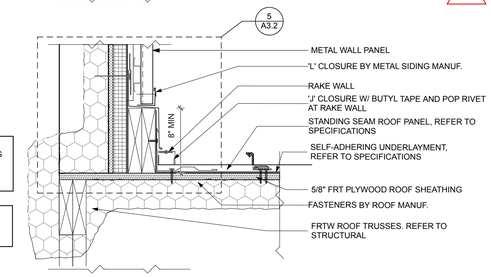


5 A3.2 ROOF FLASHING DETAIL
SCALE: 3" = 1'-0"

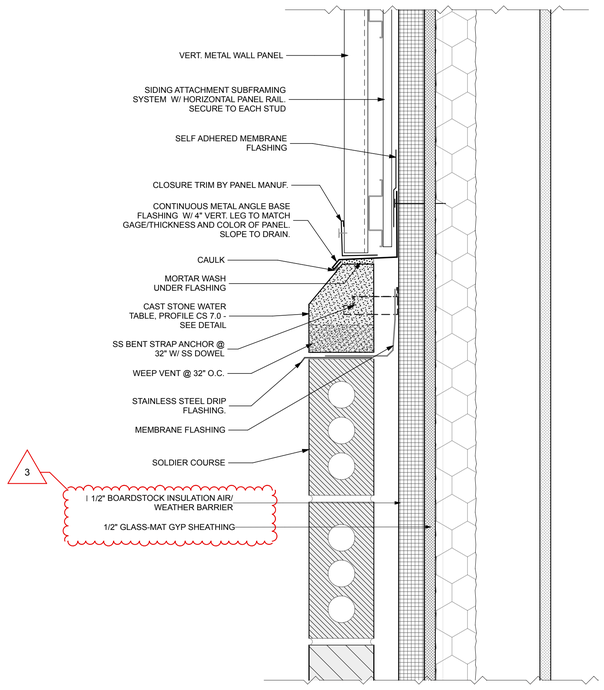


3 A3.2 ROOF EDGE DETAIL
SCALE: 1 1/2"= 1'-0"

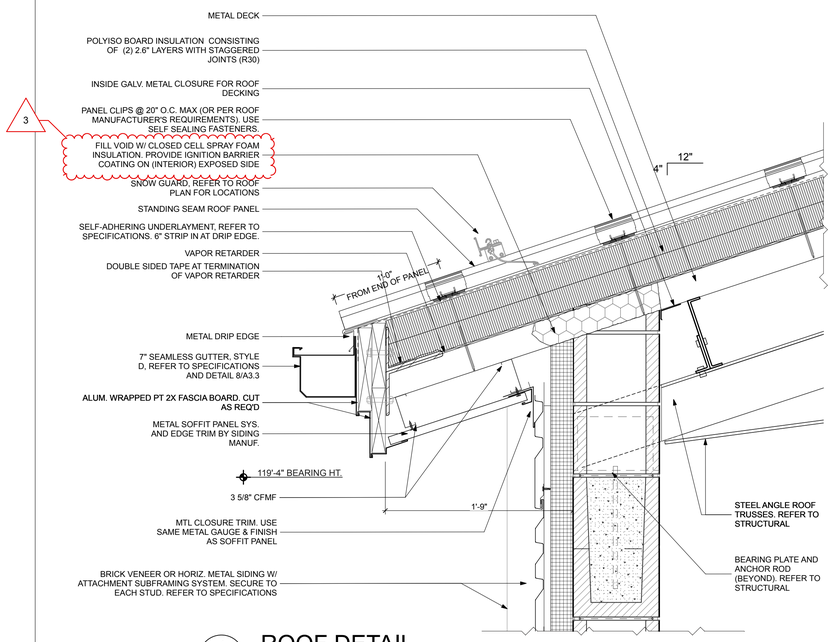




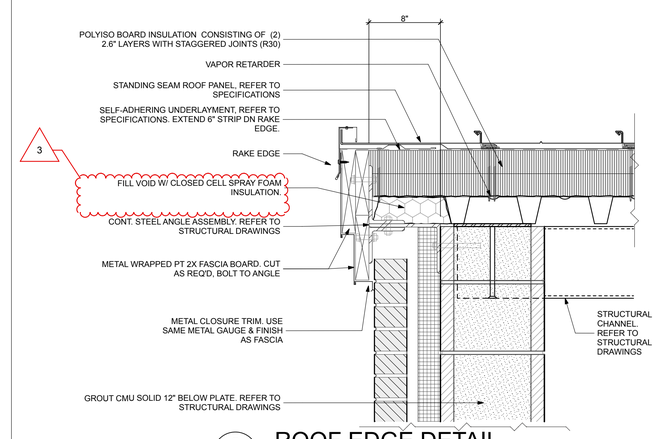
1 A3.2 GABLE END RAKE DETAIL
SCALE: 1 1/2"= 1'-0"



6 A3.2 SIDING TO STONE TRANSITION DETAIL
SCALE: 3" = 1'-0"



4 A3.2 ROOF DETAIL
SCALE: 1 1/2"= 1'-0"



2 A3.2 ROOF EDGE DETAIL
SCALE: 1 1/2"= 1'-0"

FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS
(937) 492-6983
www.freytaginc.com
info@freytaginc.com
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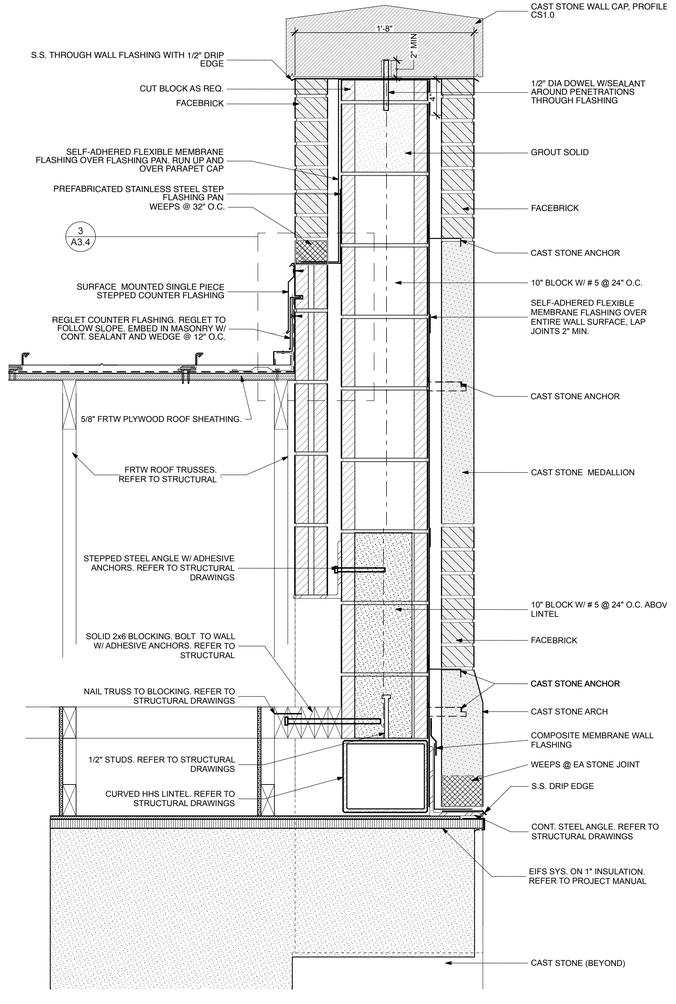
ROOF DETAILS

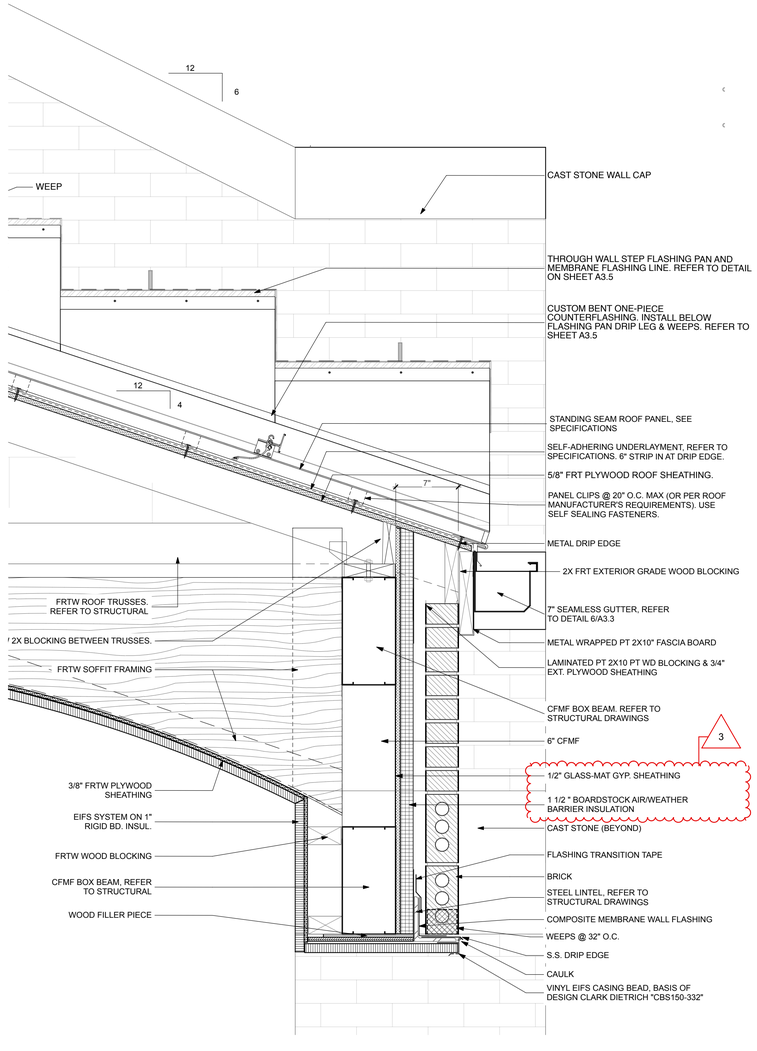
A3.2

PLOT DATE: 1/23/25 @ 4:57 PM LAYOUT: A3.A3.2-ROOF PLANS AND DETAILS FILENAME: 231103 Fire Station CD FILE PATH: BIMcloud: freytaginc - BIMcloud Software as a Service/231103 Fire Station CD

3 A3.4 STEP FLASHING DETAIL
SCALE: 3" = 1'-0"



2 A3.4 ENTRY PORCH SECTION
SCALE: 1 1/2"= 1'-0"



1 A3.4 ENTRY GUTTER DETAIL AND SOFFIT
SCALE: 1 1/2"= 1'-0"

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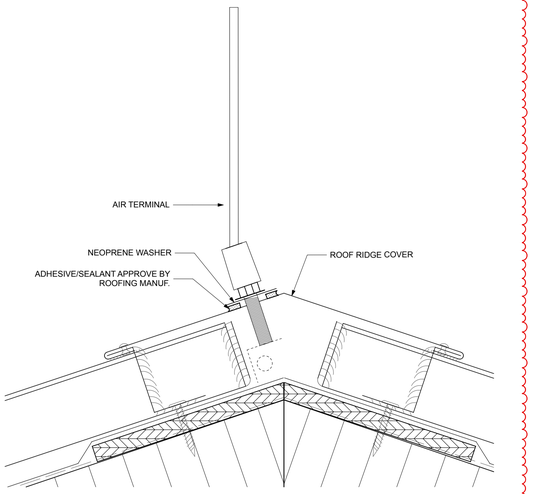
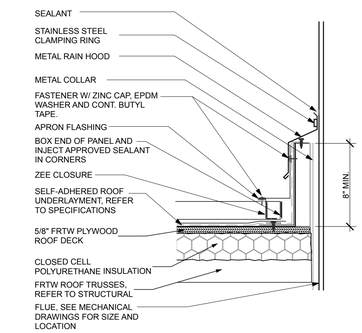
ROOF DETAILS

A3.4



8 A3.6 LIGHTNING PROTECTION DETAIL
SCALE: 6" = 1'-0"

3

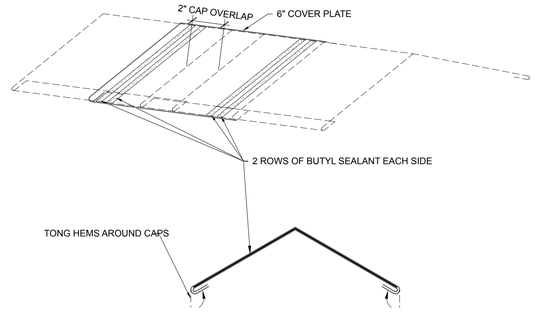


6 A3.6 FLUE DETAIL
SCALE: 1 1/2"= 1'-0"

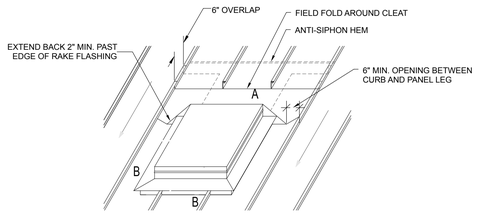
FLASHING LAP NOTE

LAP RIDGE/HIP 4" MIN W/ 2 ROWS OF BUTYL SEALANT.

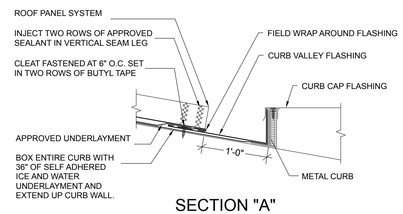
DO NOT POP RIVET LAPPED FLASHINGS.



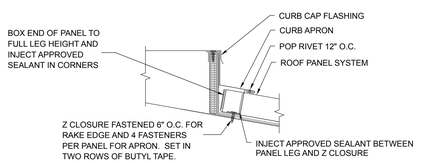
5 A3.6 RIDGE COVER PLATE
SCALE: 3" = 1'-0"



CURB DETAIL INSTRUCTIONS
4'-0" WIDTH OR LESS



SECTION "A"



SECTION "B"

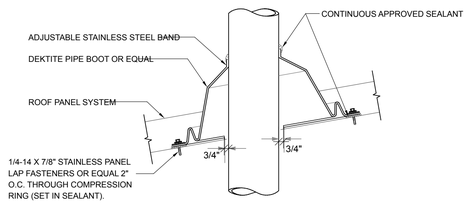
7 A3.6 CURB DETAILS
SCALE: 3" = 1'-0"

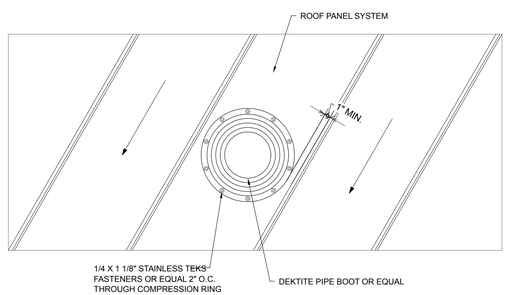
NOTE:
DO NOT ATTACH INTO SOLID SUBSTRATE BELOW.

BOOT SHALL NOT INTERSECT STANDING SEAM VERTICAL LEG.

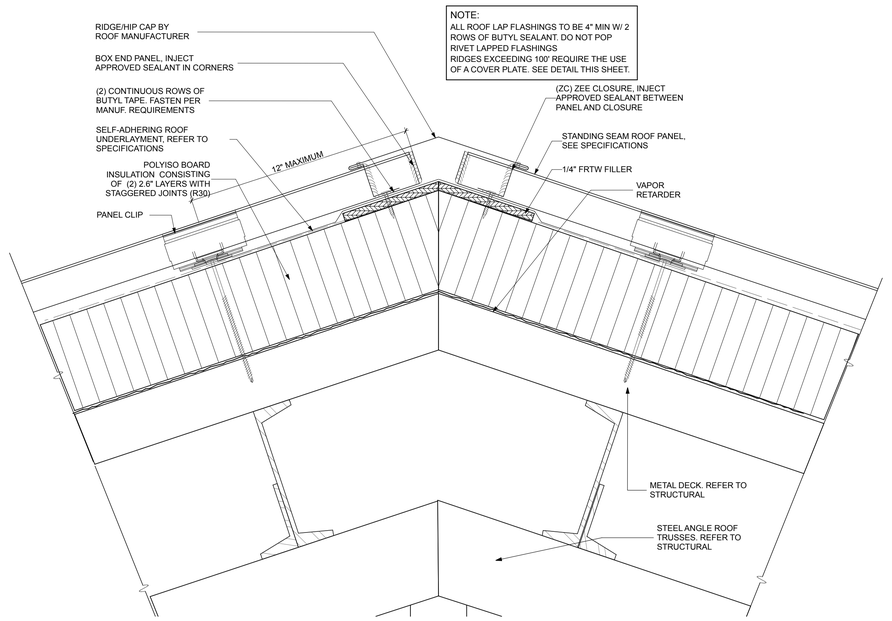
INSTALL IN FLAT AREA OF PANEL ONLY.

IF USING A SQUARE BOOT DETAIL, SET BOOT IN A DIAGONAL OR DIAMOND POSITION TO ENSURE WATER FLOW.

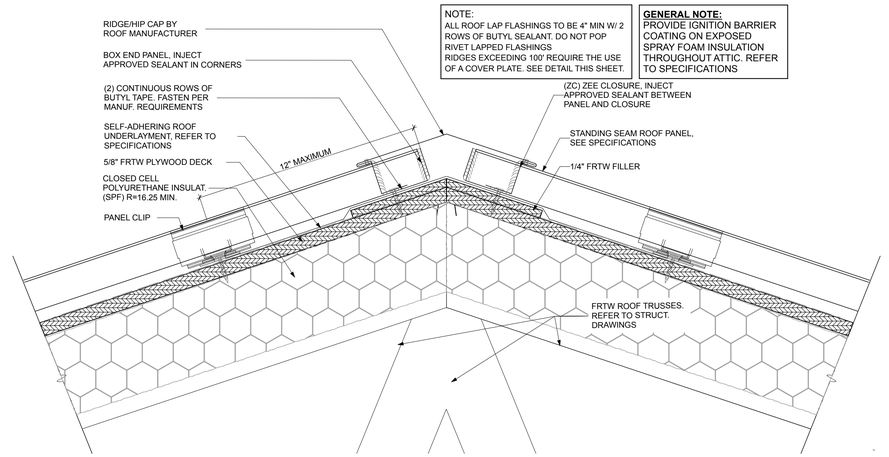




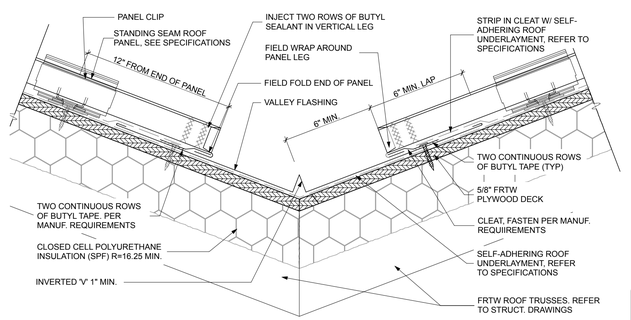
4 A3.6 BOOT DETAIL
SCALE: 3" = 1'-0"



3 A3.6 RIDGE DETAIL APPARATUS BAY
SCALE: 3" = 1'-0"



2 A3.6 RIDGE DETAIL STATION SUPPORT
SCALE: 3" = 1'-0"



GENERAL NOTE:
PROVIDE IGNITION BARRIER COATING ON EXPOSED SPRAY FOAM INSULATION THROUGHOUT ATTIC. REFER TO SPECIFICATIONS

1 A3.6 VALLEY DETAIL
SCALE: 3" = 1'-0"

FREYTAG & ASSOCIATES INC.
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226 N. MIAMI AVE.
P.O. BOX 220
SIDNEY, OHIO 45365
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www.freytagarc.com
info@freytagarc.com

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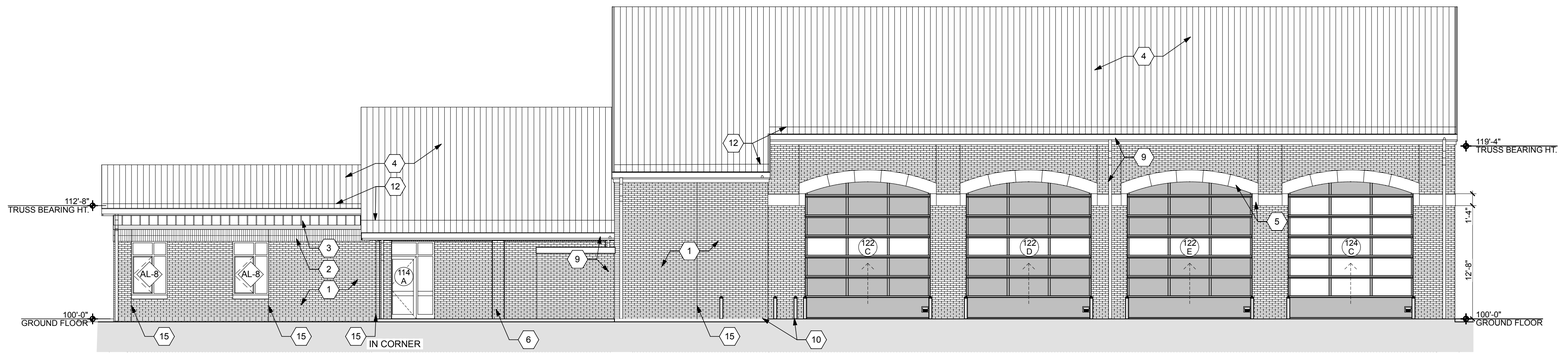
ROOF DETAILS

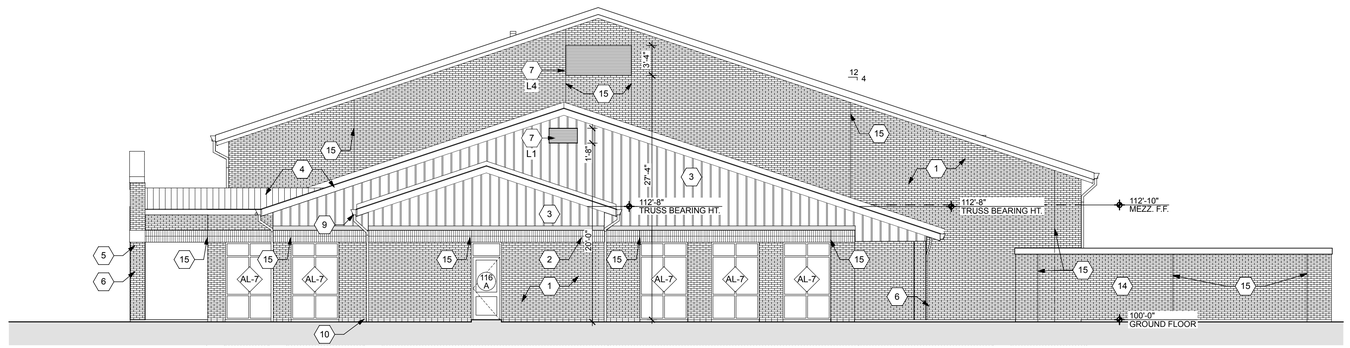
A3.6

PLOT DATE: 1/24/25 @ 8:30 AM LAYOUT: A3.6 ROOF PLANS AND DETAILS FILENAME: 231103 Fire Station CD FILE PATH: BIMcloud: freytagarc - BIMcloud Software as a Service/231103 Fire Station CD



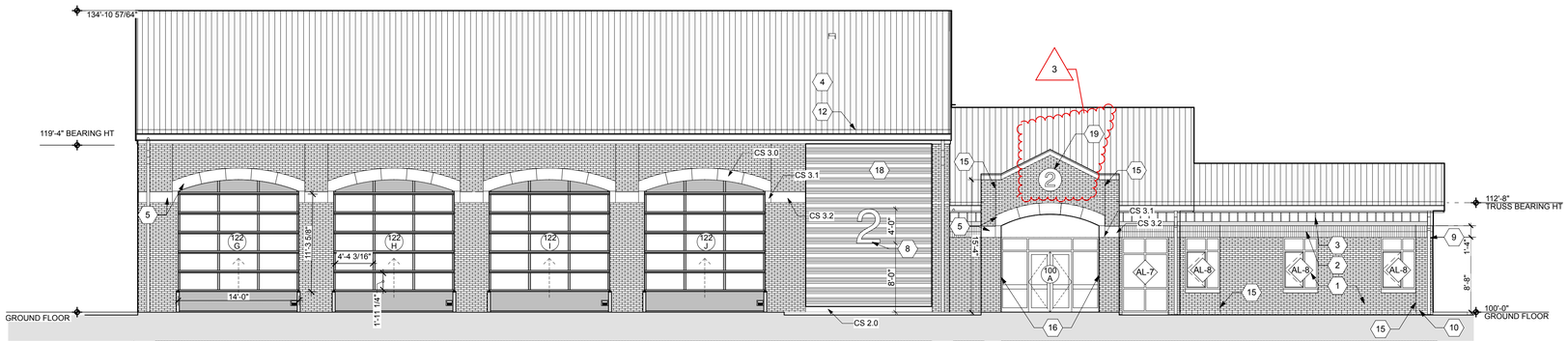
1 A4.1 NORTH ELEVATION

SCALE: 1/8" = 1'-0"



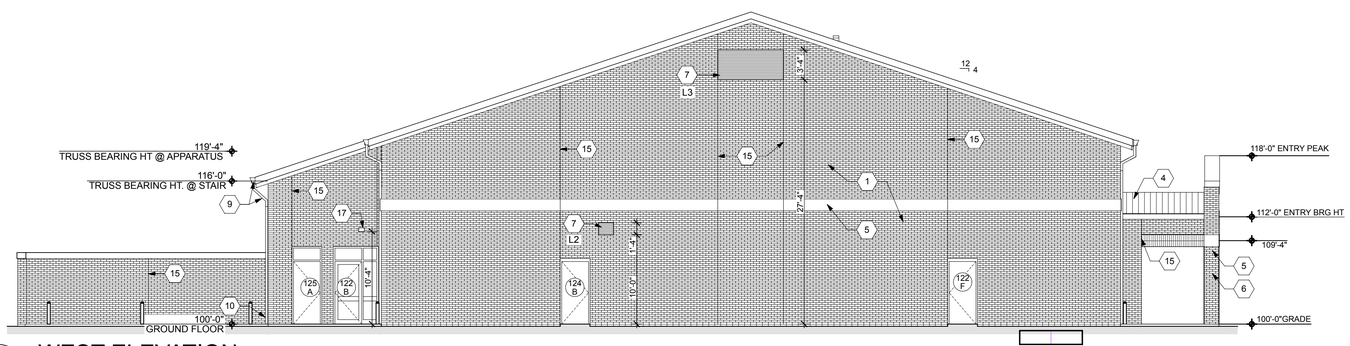
2 A4.1 EAST ELEVATION

SCALE: 1/8" = 1'-0"



3 A4.1 SOUTH ELEVATION

SCALE: 1/8" = 1'-0"



4 A4.1 WEST ELEVATION

SCALE: 1/8" = 1'-0"

EXTERIOR ELEVATION NOTES

ALL NOTES MAY NOT BE REFERENCED ON THIS SHEET.

1. FACE BRICK, RUNNING BOND.
2. FACE BRICK, TWO SOLDIER COURSES.
3. REVEAL-JOINT, CONCEALED-FASTENER METAL WALL PANELS.
4. STANDING SEAM METAL ROOF.
5. CAST STONE BAND.
6. MASONRY WRAPPED COLUMN.
7. LOUVER, SEE MECHANICAL DRAWINGS FOR SIZE.
8. DIMENSIONAL CHARACTERS, BACKLIGHT, REFER TO SPECIFICATIONS.
9. GUTTER / DOWNSPOUTS.
10. DOWNSPOUT BOOT (TYP.) REFER TO SPECIFICATIONS.
11. CAST STONE COLUMN CAP.
12. SNOW GUARD, REFER TO SPECIFICATIONS.
13. MECHANICAL ROOF EQUIPMENT, REFER TO MECHANICAL DRAWINGS.
14. SCREEN WALL.
15. CONTROL JOINT (TYP.).
16. CORNERSTONE PLAQUE.
17. DRYER VENT, SEE MECHANICAL DRAWINGS.
18. MULTI-CORRUGATE-RIB-PROFILE, CONCEALED-FASTENER METAL WALL PANELS.
19. CAST STONE MEDALLION. INSCRIBED LETTERING IN CAST STONE WITH STAIN COLOR; LETTERING FONT AS SELECTED BY ARCHITECT. REFER TO DETAIL 2/A6.5 FOR LETTERING HEIGHT

3

LOUVER SCHEDULE

TAG	SERVICE	BASIS OF DESIGN	WIDTH	HEIGHT
L1	INLINE FANS EXHAUST	GREENHECK ESD-635	38"	20"
L2	GEAR DRYER EXHAUST	GREENHECK ESD-635HP	18"	16"
L3	APPARATUS BAY INTAKE	GREENHECK ESD-635	88"	40"
L4	APPARATUS BAY EXHAUST	GREENHECK ESD-635	88"	40"

ELEVATION LEGEND

- (#) KEY NOTE, SEE ABOVE.
- (AL#) ALUMINUM FRAMED OPENING, REFER TO SHEET A7.1
- (#) DOOR OPENING, REFER TO DOOR SCHEDULE ON SHEET A7.1
- (#) LOUVER, REFER TO SHEET A7.1

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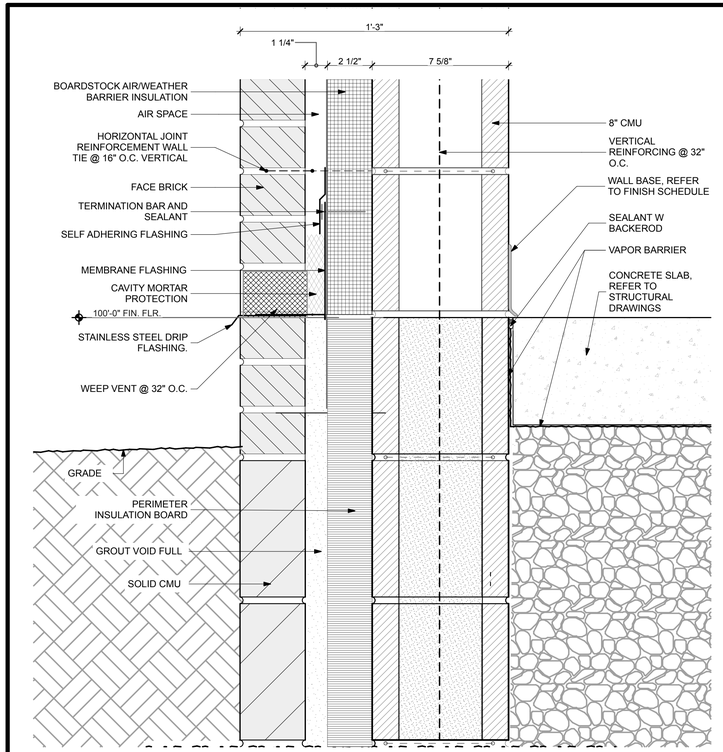
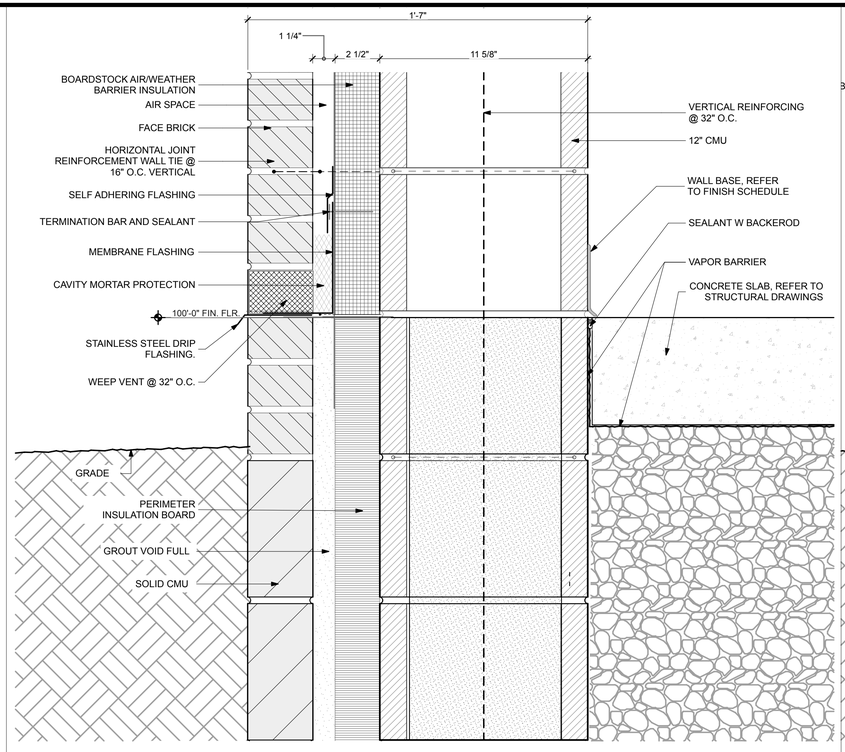
EXTERIOR ELEVATIONS

A4.1

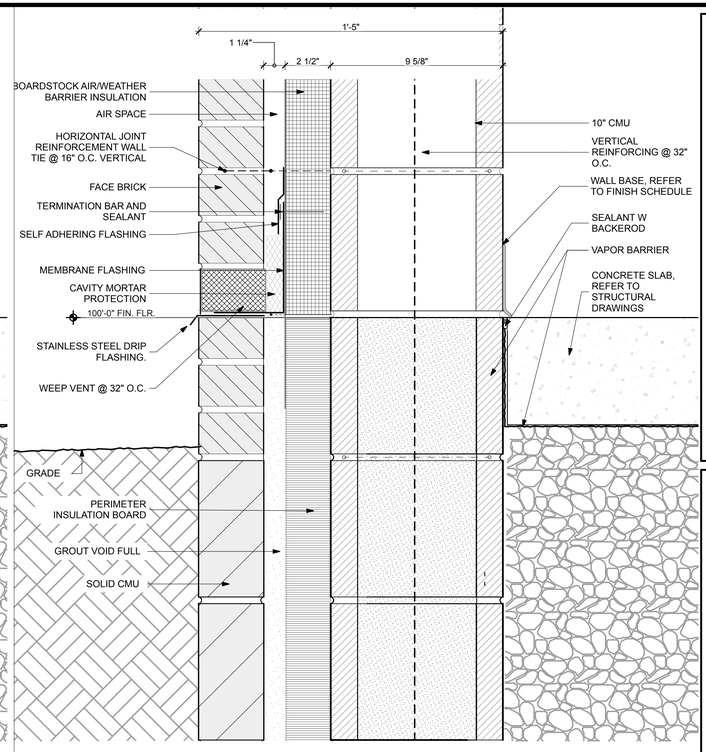
PLOT DATE: 1/23/25 @ 2:22 PM LAYOUT: A4-A4.1-EXTERIOR ELEVATIONS AND DETAILS - EXTERIOR ELEVATIONS FILENAME: 231103 Fire Station CD FILE PATH: BIMcloud: freytaginc - BIMcloud Software as a Service\231103 Fire Station CD



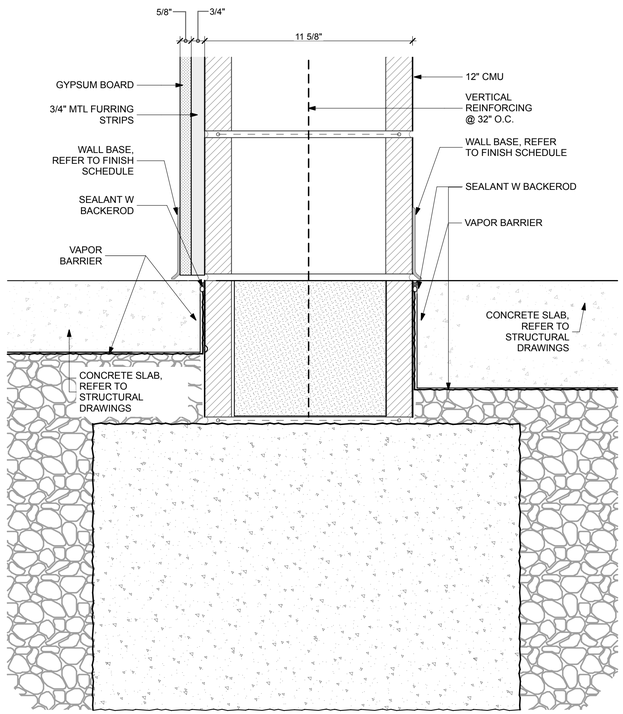
3/A6.1 WALL BASE DETAIL - 8" CMU
SCALE: 3" = 1'-0"



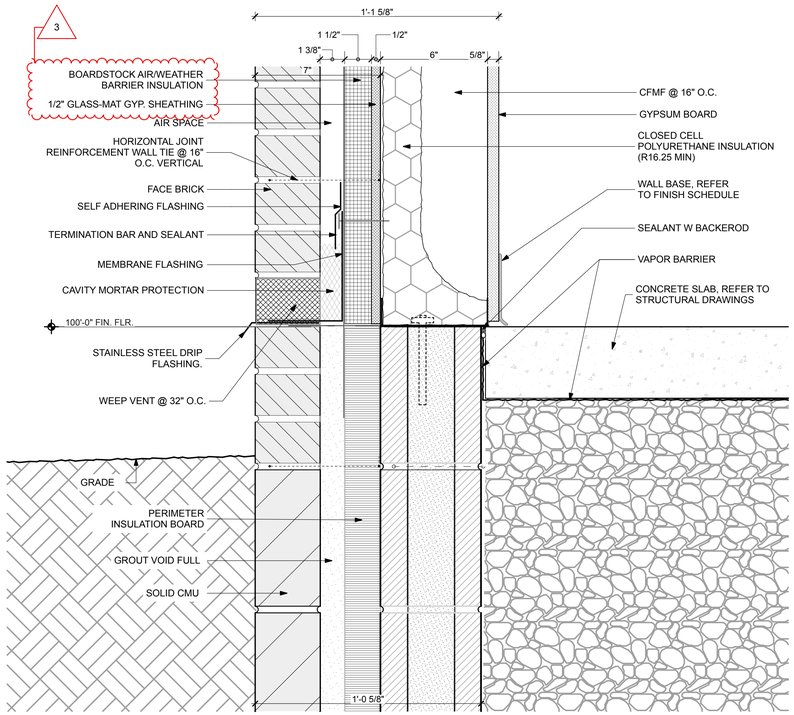
1/A6.1 WALL BASE DETAIL - 12" CMU
SCALE: 3" = 1'-0"



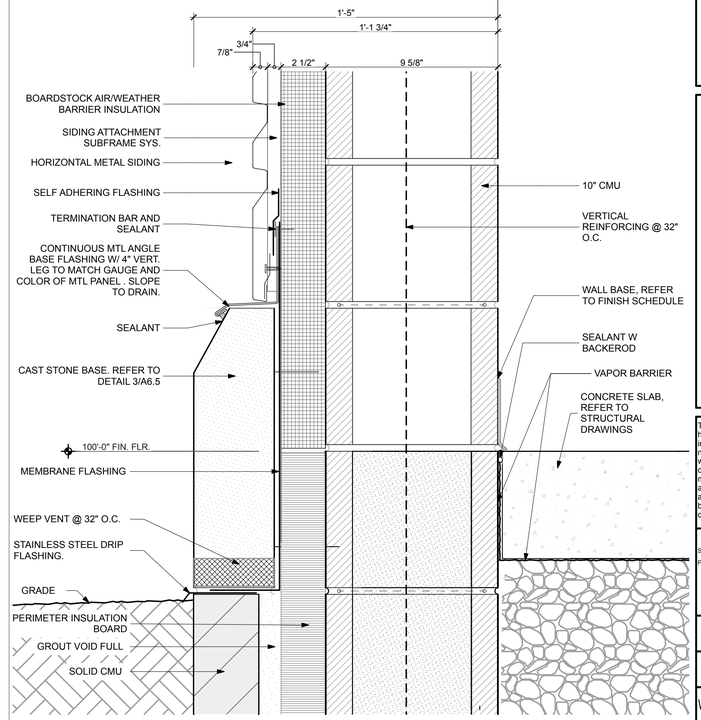
3/A6.1 WALL BASE DETAIL - 10" CMU
SCALE: 3" = 1'-0"



1/A6.1 WALL BASE DETAIL - 12" CMU
SCALE: 3" = 1'-0"



2/A6.1 WALL BASE DETAIL - 6" METAL STUD
SCALE: 3" = 1'-0"



4/A6.1 WALL BASE DETAIL - 10" CMU W/ ACM PANEL
SCALE: 3" = 1'-0"

FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS
(937) 492-6983
www.freytaginc.com
info@freytaginc.com
226 N. MIAMI AVE.
PO. BOX 220
SIDNEY, OHIO 45365

NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY
SIDNEY, OH 45365
2324 CAMPBELL ROAD

STATE OF OHIO
DANIEL J. FREYTAG 8533
REGISTERED ARCHITECT

Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

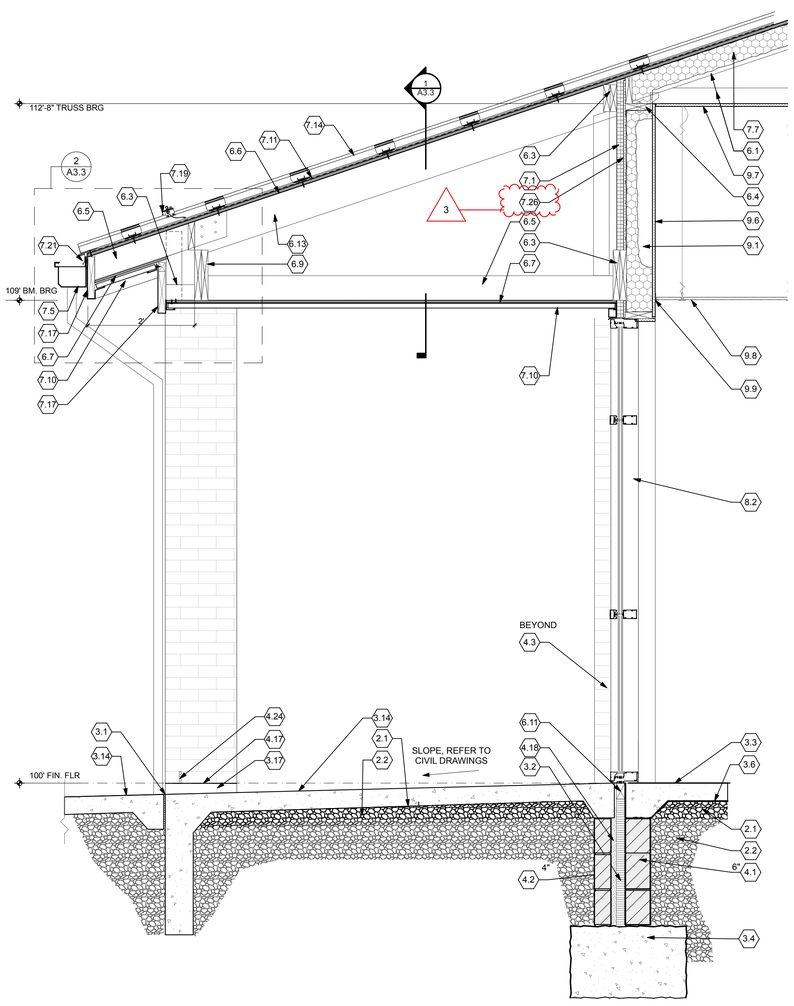
REVISIONS
STORM SHELTER REVIEW
PLAN APPROVAL / BIDDING
1 ADDENDUM 2 1/10/2025
2 ADDENDUM 3 1/24/2025

COMM. NUMBER	DATE
2207.02	11/22/24
DRAWN BY	CHECKED BY
AF/RS	DF

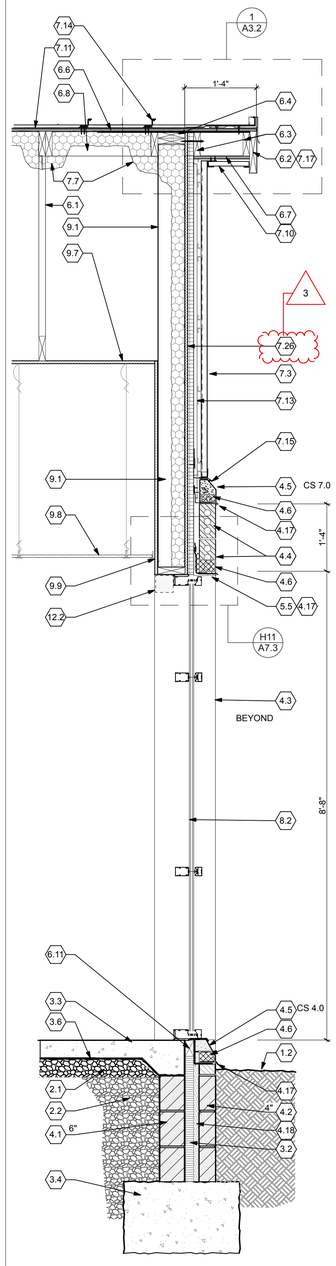
WALL CONSTRUCTION DETAILS

A6.1

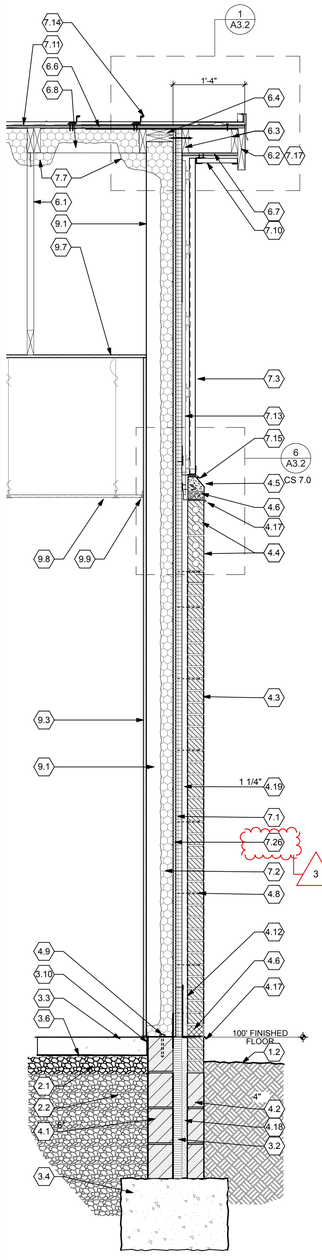
PLOT DATE: 1/23/25 @ 5:03 PM LAYOUT: A6/A6.1:WALL SECTIONS AND DETAILS - WALL CONSTRUCTION DETAILS FILENAME: 231103 Fire Station CD FILE PATH: BIMcloud: freytaginc - BIMcloud Software as a Service/231103 Fire Station CD



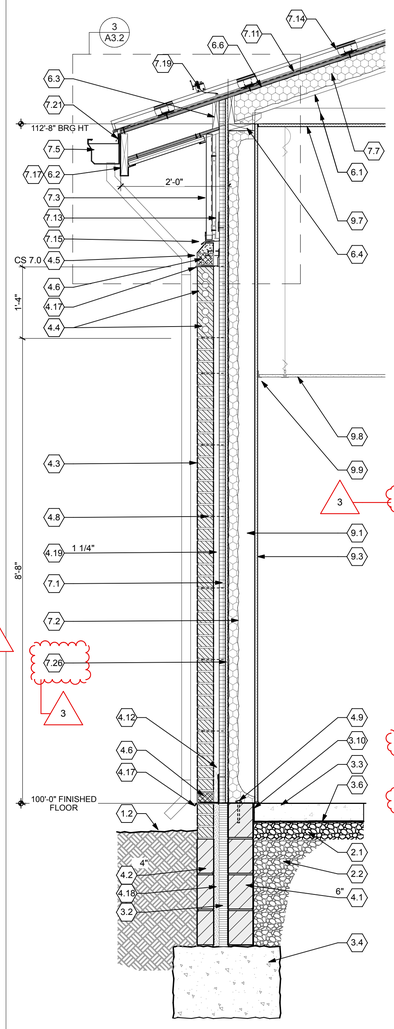
4 A6.3 PATIO WALL SECTION
SCALE: 3/4" = 1'-0"



3 A6.3 WALL SECTION
SCALE: 3/4" = 1'-0"



2 A6.3 WALL SECTION
SCALE: 3/4" = 1'-0"



1 A6.3 WALL SECTION
SCALE: 3/4" = 1'-0"

GENERAL NOTE:
PROVIDE IGNITION BARRIER COATING ON EXPOSED SPRAY FOAM INSULATION THROUGHOUT ATTIC. REFER TO SPECIFICATIONS

SECTION NOTES

SECTION NOTES ARE STD. FOR ALL SECTIONS. ALL NOTES MAY NOT BE REFERENCED ON THIS SHEET.

1.1 AIR SPACE
1.2 GRADE, REFER TO SITE PLAN

2.1 4" COMPACTED GRAVEL BASE (TYPICAL).
2.2 COMPACTED GRAVEL BACKFILL

3.1 1/4" EXPANSION FILLER
3.2 2" EXTRUDED POLYSTYRENE BOARD INSULATION (R 10 MIN.)
3.3 CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS.
3.4 FOUNDATION WALL AND FOOTING. REFER TO STRUCTURAL DETAILS FOR SIZE, BOTTOM OF FOOTING DEPTH AND REINFORCING.
3.5 THICKENED SLAB FOUNDATION. REFER TO STRUCTURAL DRAWINGS.
3.6 VAPOR BARRIER (TYPICAL). REFER TO PROJECT MANUAL.
3.7 4" CONCRETE SLAB AND METAL DECK, REFER TO STRUCTURAL DRAWINGS AND PROJECT MANUAL.
3.8 PRECAST HOLLOW CORE PLANKS WITH CONCRETE TOPPING, REFER TO STRUCTURAL DRAWINGS.
3.9 INSULATED CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS.
3.10 SEALANT @ PERIMETER OF SLAB/FOUNDATION
3.11 REINFORCED CONCETE SLAB, REFER TO SITE PLAN FOR DETAIL.
3.12 EXTERIOR CONCRETE STOOP. REFER TO SITE DRAWINGS
3.13 PRECAST HOLLOW CORE CONCRETE SLAB UNITS. REFER TO STRUCTURAL DRAWINGS.
3.14 'TURN-DOWN' SLAB, REFER TO STRUCTURAL DRAWINGS.
3.15 CONCRETE FROST STOOP. REFER TO STRUCTURAL DRAWINGS.
3.16 EXTERIOR CONCRETE SLAB, REFER TO SITE DRAWINGS.
3.17 CMU FOUNDATION, REFER TO STRUCTURAL

4.1 CONCRETE MASONRY UNIT (CMU)
4.2 SOLID CONCRETE MASONRY UNIT (CMU).
4.3 FACE BRICK.
4.4 FACE BRICK SOLIDER COURSE (2 COURSES) W/ HORIZONTAL JOINT REINFORCING WALL TIE AT TOP AND BOTTOM COURSE.
4.5 CAST STONE. REFER TO DETAILS ON A6.5.
4.6 WEEP VENT @ 32" O.C.
4.7 CMU BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
4.7.1 CONT. 16" DP. BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
4.8 HORIZONTAL JOINT REINFORCEMENT WALL TIE @ 16 O.C. VERTICAL (MAX)
4.9 ANCHOR BOLTS. REFER TO STRUCTURAL DRAWINGS.
4.10 CMU GROUTED SOLID. REFER TO STRUCTURAL DRAWINGS
4.11 CONCRETE BRICK.
4.12 CAVITY MORTAR PROTECTION
4.13 CUT CMU BLOCK AS REQUIRED.
4.14 METAL THRU WALL FLASHING.
4.15 HORIZONTAL JOINT REINFORCEMENT
4.16 FILL CORES OF CMU WITH GROUT PROVIDE REINFORCING DOWELS, 16"O.C. REFER TO STRUCTURAL FOR REINFORCING
4.17 STAINLESS STEEL DRIP EDGE
4.18 GROUT VOID FULL
4.19 AIRSPACE
4.20 BEARING PLATE. REFER TO STRUCTURAL DRAWINGS.
4.21 VERTICAL REINFORCING. REFER TO STRUCTURAL DRAWINGS
4.22 MEMBRANE THRU WALL FLASHING
4.23 FLASHING/ COUNTER FLASHING
4.24 WEEP VENT. ONE PER SIDE OF COLUMN
4.25 12X16 CAST STONE MEMORIAL PLAQUE W/ INSCRIPTION
4.26 CAST STONE MEDALLION. REFER TO DETAIL 3/A6.5

5.1 BEAM. REFER TO STRUCTURAL DRAWINGS.
5.2 BEAM AND PLATE. REFER TO STRUCTURAL DRAWINGS.
5.3 COLUMN. REFER TO STRUCTURAL DRAWINGS.
5.4 STEEL LINTEL. REFER TO STRUCTURAL DRAWINGS.
5.5 STEEL ANGLE. REFER TO STRUCTURAL DRAWINGS.
5.6 STAIR STRINGER / STRUCTURAL SUPPORT. REFER TO SPECIFICATION AND COORDINATE WITH APPROVED SUBMITTALS.
5.7 METAL HANDRAIL, REFER TO SPECIFICATIONS AND DETAIL 8/A6.8.
5.8 STEEL ROOF DECK, 3" REFER TO STRUCTURAL DRAWINGS.
5.9 METAL PAN STAIR/LANDING, REFER TO STAIR DETAILS.
5.11 STEEL LADDER. REFER TO SPECIFICATIONS. COORDINATE LOCATION AND CLEARANCES WITH ELEVATOR EQUIPMENT.
5.10 METAL GUARD RAIL, REFER TO DETAIL 5/A6.7.
5.12 ROOF TRUSS. REFER TO STRUCTURAL DRAWINGS.
5.13 STEEL MC CHANNEL. REFER TO STRUCTURAL DRAWINGS.
5.14 INSIDE GALVANIZED METAL CLOSURES FOR ROOF DECKING.
5.15 METAL PAN STAIR / LANDING, REFER TO STAIR DETAILS.

6.1 FRTW ROOF TRUSSES. REFER TO STRUCTURAL DRAWINGS.
6.2 FRTW 2X10 FASCIA.
6.3 FRTW 2X BLOCKING
6.4 FRTW PLATE. REFER TO STRUCTURAL
6.5 FRTW 2X6 SOFFIT FRAMING. REFER TO STRUCTURAL DRAWINGS.
6.6 5/8" FRT PLYWOOD ROOF SHEATHING. REFER TO PROJECT MANUAL.
6.7 FRT EXTERIOR GRADE PLYWOOD SHEATHING. REFER TO PROJECT MANUAL
6.8 2X6 LADDER FRAMING (OUTRIGGER) REFER TO STRUCTURAL DRAWINGS.
6.9 CONTINUOUS FRTW 2X12 BEAM, STAGGER JOINTS ABOVE COLUMN.
6.10 WOOD POST. REFER TO STRUCTURAL DRAWINGS
6.11 P.T WOOD NAILER
6.12 FRTW OVER FRAMING @ 16" O.C. (U.N.O) REFER TO STRUCTURAL DRAWINGS.
6.13 FRTW 2X8 ROOF RAFTER. SECURE TO TRUSS
6.14 FRTW 2X8 @ 16" O.C W/ 5/8" PLYWOOD T&B. REFER TO STRUCTURAL DRAWINGS

7.1 BOARD STOCK AIR BARRIER / WALL INSULATION, 1 1/2" @ CFMF WALLS, 2.5" @ MASONRY WALLS. REFER TO PROJECT MANUAL.
7.2 CLOSED CELL POLYURETHANE INSULATION (SPFI) (R 16.25 MIN)
7.3 METAL PANEL SIDING. REFER TO PROJECT MANUAL
7.4 EXPANSION JOINT
7.5 7" METAL GUTTER. STYLE D. REFER TO ROOF PLAN FOR DOWNSPOUT LOCATIONS AND DETAILS
7.6 POLYISO BD. ROOF INSULATION. CONSISTING OF (2) 2.6" THICK LAYERS W/ STAGGERED JOINTS. (R30)
7.7 CLOSED CELL INSULATION (R38) SPRAYED DIRECTLY TO ROOF DECK.
7.8 SEALANT W/ BACKER ROD
7.9 SEALANT, REFER TO PROJECT MANUAL
7.10 METAL SOFFIT PANEL SYSTEM. REFER TO PROJECT MANUAL.
7.11 SELF ADHERING ROOF UNDERLAYMENT. REFER TO PROJECT MANUAL
7.12 VAPOR RETARDER. REFER TO PROJECT MANUAL
7.13 SIDING ATTACHMENT SUBFRAMING. REFER TO PROJECT MANUAL
7.14 STANDING SEAM METAL ROOF. REFER TO PROJECT MANUAL
7.15 CONTINUOUS METAL SIDING BASE FLASHING.
7.16 STEP FLASHING, SEE DETAILS
7.17 ALUMINUM WRAPPED FASCIA OVER WOOD BLOCKING
7.18 STONE ANCHOR. (2) PER STONE MINIMUM. (3) PER STONE OVER 48" LONG
7.19 ROOF ICE GUARD BY ROOF MANUF. REFER TO PROJECT MANUAL
7.20 FLASHING / COUNTERFLASHING. SEE DETAIL
7.21 METAL DRIP EDGE
7.22 FILL VOIDS WITH CLOSED-CELL SPRAY FOAM INSULATION. PROVIDE IGNITION BARRIER COATING ON (INTERIOR) EXPOSED SIDE.
7.23 EIFS SYSTEM ON 1" INSULATION. REFER TO PROJECT MANUAL
7.24 CURVED VINYL CASING BEAD. BASIS OF DESIGN: CLARK DIETRICH CBS150-332
7.25 SELF ADHERED FLEXIBLE MEMBRANE FLASHING OVER ENTIRE WALL SURFACE LAP 2" MIN.
7.26 1/2" GLASS-MAT GYPSUM SHEATHING

8.1 DOOR & FRAME. REFER TO DOOR SCHEDULE.
8.2 WINDOW. REFER TO FLOOR PLAN FOR TYPE.
8.3 THRESHOLD BY DOOR MANUFACTURER, REFER TO DOOR DETAILS.
8.4 ALUMINUM SUBSILL BY WINDOW MANUFACTURER. FINISH TO MATCH WINDOW.
8.5 OVERHEAD DOOR. REFER TO DOOR SCHEDULE
8.6 REFER TO ALUMINUM WINDOW ELEVATIONS AND PROJECT MANUAL.
8.7 ACCESS DOOR; BASIS OF DESIGN: NYSTROM RGB SERIES HINGED 24"X36" ACCESS DOOR.

9.1 CFMF @16" O.C.
9.2 CFMF BRACING @ 48"O.C.
9.3 5/8" ABUSE RESISTANT GYPSUM BOARD, FULL HEIGHT
9.4 CONTINUOUS 3 5/8" CFMF.
9.5 WINDOW TRIM AND SILL. REFER TO WINDOW DETAILS.
9.6 5/8"GYPSUM BOARD
9.7 5/8" GYPSUM BOARD AT BOTTOM OF TRUSS (TYPICAL).
9.8 SUSPENDED ACOUSTICAL CEILING PANELS AND GRID.
9.9 METAL 'J' MOLD
9.10 WALL BASE, SEE FINISH SCHEDULE.
9.11 6" CFMF BOX BEAM. REFER TO STRUCTURAL DRAWINGS
9.12 SUSPENDED GYPSUM CEILING

10.1 LOUVER
10.2 GRILLE, REFER TO MECHANICAL DRAWINGS.

12.1 CASEWORK, REFER TO EQUIPMENT DRAWINGS
12.2 WINDOW SHADES, REFER TO PROJECT MANUAL.

23.1 HVAC EQUIPMENT AND DUCTS, SEE HVAC DRAWINGS
23.2 MECHANICAL LOUVER. REFER TO MECHANICAL DRAWINGS.

26.1 LIGHT FIXTURE, SEE ELECTIRCAL DRAWINGS.

FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS
226 N. MIAMI AVE.
P.O. BOX 220
SIDNEY, OHIO 45365
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NEW CONSTRUCTION OF
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CITY OF SIDNEY
SIDNEY, OH 45365
2324 CAMPBELL ROAD

STATE OF OHIO
DANIEL J. FREYTAG 8533
REGISTERED ARCHITECT

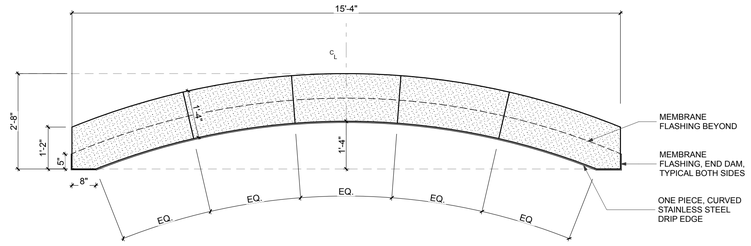
Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

REVISIONS
STORM SHELTER REVIEW
PLAN APPROVAL / BIDDING
1 ADDENDUM 2 1/10/2025
2 ADDENDUM 3 1/24/2025

COMM. NUMBER	DATE
2207.02	11/22/24
DRAWN BY	CHECKED BY
AF/RS	DF

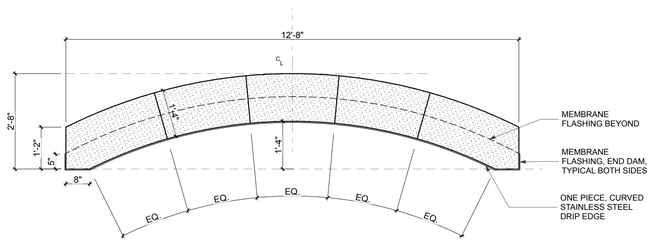
WALL SECTIONS

A6.3



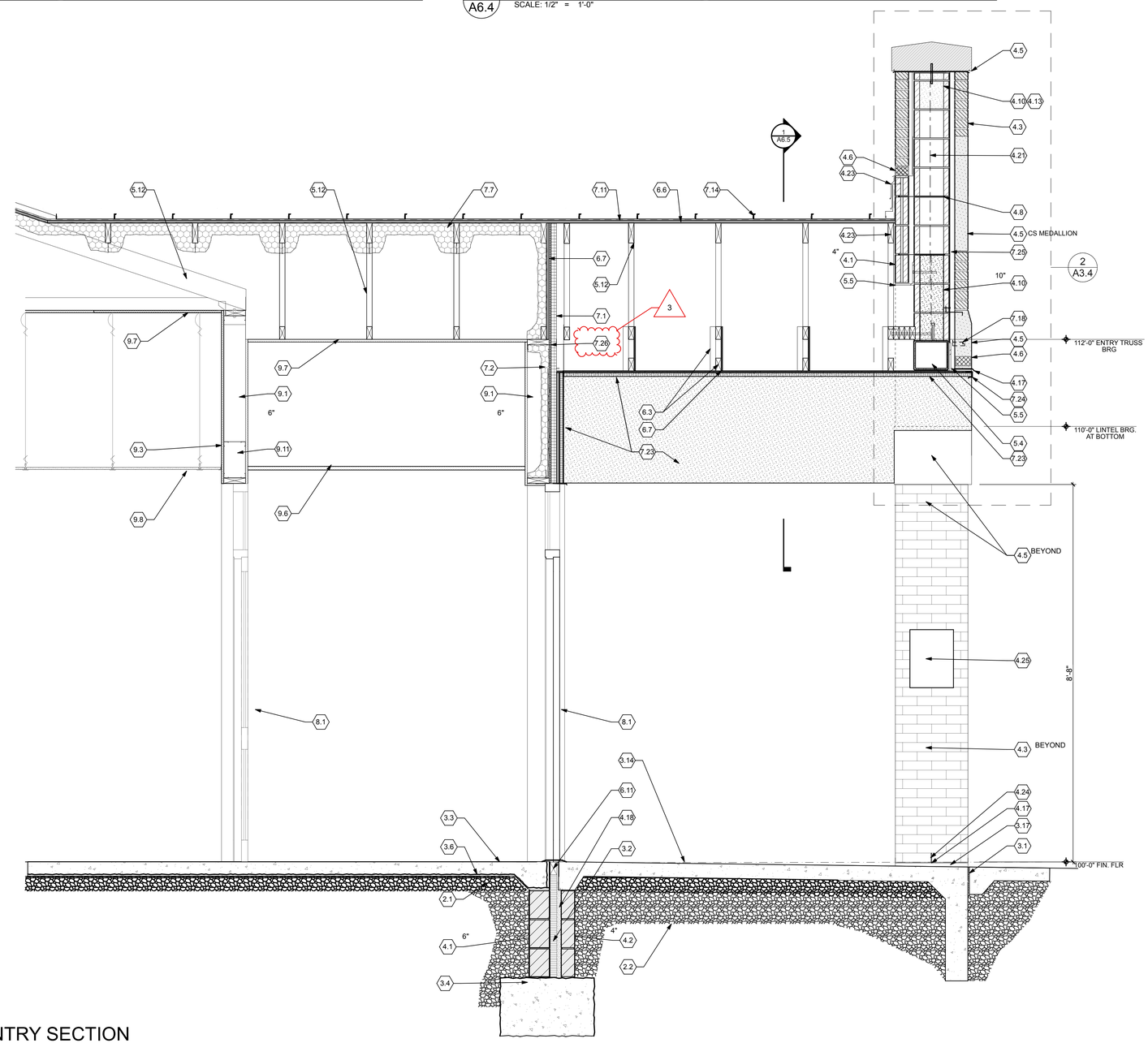
2 A6.4 CAST STONE ARCH @ OHD DOORS

SCALE: 1/2" = 1'-0"



3 A6.4 CAST STONE ARCH @ ENTRY

SCALE: 1/2" = 1'-0"



1 A6.4 ENTRY SECTION

SCALE: 3/4" = 1'-0"

GENERAL NOTE:
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SECTION NOTES

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1.1 AIR SPACE
1.2 GRADE, REFER TO SITE PLAN

2.1 4" COMPACTED GRAVEL BASE (TYPICAL).
2.2 COMPACTED GRAVEL BACKFILL

3.1 1/4" EXPANSION FILLER
3.2 2" EXTRUDED POLYSTYRENE BOARD INSULATION (R 10 MIN.)
3.3 CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS.
3.4 FOUNDATION WALL AND FOOTING. REFER TO STRUCTURAL DETAILS FOR SIZE, BOTTOM OF FOOTING DEPTH AND REINFORCING.
3.5 THICKENED SLAB FOUNDATION. REFER TO STRUCTURAL DRAWINGS.
3.6 VAPOR BARRIER (TYPICAL). REFER TO PROJECT MANUAL.
3.7 4" CONCRETE SLAB AND METAL DECK, REFER TO STRUCTURAL DRAWINGS AND PROJECT MANUAL.
3.8 PRECAST HOLLOW CORE PLANKS WITH CONCRETE TOPPING, REFER TO STRUCTURAL DRAWINGS.
3.9 INSULATED CONCRETE FLOOR SLAB, REFER TO STRUCTURAL DRAWINGS.
3.10 SEALANT @ PERIMETER OF SLAB/FOUNDATION
3.11 REINFORCED CONCETE SLAB, REFER TO SITE PLAN FOR DETAIL.
3.12 EXTERIOR CONCRETE STOOP. REFER TO SITE DRAWINGS
3.13 PRECAST HOLLOW CORE CONCRETE SLAB UNITS. REFER TO STRUCTURAL DRAWINGS.
3.14 'TURN-DOWN' SLAB, REFER TO STRUCTURAL DRAWINGS.
3.15 CONCRETE FROST STOOP. REFER TO STRUCTURAL DRAWINGS.
3.16 EXTERIOR CONCRETE SLAB, REFER TO SITE DRAWINGS.
3.17 CMU FOUNDATION, REFER TO STRUCTURAL

4.1 CONCRETE MASONRY UNIT (CMU)
4.2 SOLID CONCRETE MASONRY UNIT (CMU).
4.3 FACE BRICK.
4.4 FACE BRICK SOLIDER COURSE (2 COURSES) W/ HORIZONTAL JOINT REINFORCING WALL TIE AT TOP AND BOTTOM COURSE.
4.5 CAST STONE. REFER TO DETAILS ON A6.5.
4.6 WEEP VENT @ 32" O.C.
4.7 CMU BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
4.7.1 CONT. 16" DP. BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
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4.9 ANCHOR BOLTS. REFER TO STRUCTURAL DRAWINGS.
4.10 CMU GROUTED SOLID. REFER TO STRUCTURAL DRAWINGS
4.11 CONCRETE BRICK.
4.12 CAVITY MORTAR PROTECTION
4.13 CUT CMU BLOCK AS REQUIRED.
4.14 METAL THRU WALL FLASHING.
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4.16 FILL CORES OF CMU WITH GROUT PROVIDE REINFORCING DOWELS, 16"O.C. REFER TO STRUCTURAL FOR REINFORCING
4.17 STAINLESS STEEL DRIP EDGE
4.18 GROUT VOID FULL
4.19 AIRSPACE
4.20 BEARING PLATE, REFER TO STRUCTURAL DRAWINGS.
4.21 VERTICAL REINFORCING. REFER TO STRUCTURAL DRAWINGS
4.22 MEMBRANE THRU WALL FLASHING
4.23 FLASHING/ COUNTER FLASHING
4.24 WEEP VENT. ONE PER SIDE OF COLUMN
4.25 12X16 CAST STONE MEMORIAL PLAQUE W/ INSCRIPTION
4.26 CAST STONE MEDALLION. REFER TO DETAIL 3/A6.5

5.1 BEAM. REFER TO STRUCTURAL DRAWINGS.
5.2 BEAM AND PLATE. REFER TO STRUCTURAL DRAWINGS.
5.3 COLUMN. REFER TO STRUCTURAL DRAWINGS.
5.4 STEEL LINTEL. REFER TO STRUCTURAL DRAWINGS.
5.5 STEEL ANGLE. REFER TO STRUCTURAL DRAWINGS.
5.6 STAIR STRINGER / STRUCTURAL SUPPORT. REFER TO SPECIFICATION AND COORDINATE WITH APPROVED SUBMITTALS.
5.7 METAL HANDRAIL, REFER TO SPECIFICATIONS AND DETAIL 8/A6.8.
5.8 STEEL ROOF DECK, 3" REFER TO STRUCTURAL DRAWINGS.
5.9 METAL PAN STAIR/LANDING, REFER TO STAIR DETAILS.
5.11 STEEL LADDER. REFER TO SPECIFICATIONS. COORDINATE LOCATION AND CLEARANCES WITH ELEVATOR EQUIPMENT.
5.10 METAL GUARD RAIL, REFER TO DETAIL 5/A6.7.
5.12 ROOF TRUSS. REFER TO STRUCTURAL DRAWINGS.
5.13 STEEL MC CHANNEL. REFER TO STRUCTURAL DRAWINGS.
5.14 INSIDE GALVANIZED METAL CLOSURES FOR ROOF DECKING.
5.15 METAL PAN STAIR / LANDING, REFER TO STAIR DETAILS.

6.1 FRTW ROOF TRUSSES. REFER TO STRUCTURAL DRAWINGS.
6.2 FRTW 2X10 FASCIA.
6.3 FRTW 2X BLOCKING
6.4 FRTW PLATE. REFER TO STRUCTURAL
6.5 FRTW 2X6 SOFFIT FRAMING. REFER TO STRUCTURAL DRAWINGS.
6.6 5/8" FRT PLYWOOD ROOF SHEATHING. REFER TO PROJECT MANUAL.
6.7 FRT EXTERIOR GRADE PLYWOOD SHEATHING. REFER TO PROJECT MANUAL
6.8 2X6 LADDER FRAMING (OUTRIGGER) REFER TO STRUCTURAL DRAWINGS.
6.9 CONTINUOUS FRTW 2X12 BEAM, STAGGER JOINTS ABOVE COLUMN.
6.10 WOOD POST. REFER TO STRUCTURAL DRAWINGS
6.11 P.T WOOD NAILER
6.12 FRTW OVER FRAMING @ 16" O.C. (U.N.O) REFER TO STRUCTURAL DRAWINGS.
6.13 FRTW 2X8 ROOF RAFTER. SECURE TO TRUSS
6.14 FRTW 2X8 @ 16" O.C W/ 5/8" PLYWOOD T&B. REFER TO STRUCTURAL DRAWINGS

7.1 BOARD STOCK AIR BARRIER / WALL INSULATION, 1 1/2" @ CFMF WALLS, 2.5" @ MASONRY WALLS. REFER TO PROJECT MANUAL
7.2 CLOSED CELL POLYURETHANE INSULATION (SPF) (R 16.25 MIN)
7.3 METAL PANEL SIDING. REFER TO PROJECT MANUAL
7.4 EXPANSION JOINT
7.5 7" METAL GUTTER. STYLE D. REFER TO ROOF PLAN FOR DOWNSPOUT LOCATIONS AND DETAILS
7.6 POLYISO BD. ROOF INSULATION. CONSISTING OF (2) 2.6" THICK LAYERS W/ STAGGERED JOINTS. (R30)
7.7 CLOSED CELL INSULATION (R38) SPRAYED DIRECTLY TO ROOF DECK.
7.8 SEALANT W/ BACKER ROD
7.9 SEALANT, REFER TO PROJECT MANUAL
7.10 METAL SOFFIT PANEL SYSTEM. REFER TO PROJECT MANUAL.
7.11 SELF ADHERING ROOF UNDERLAYMENT. REFER TO PROJECT MANUAL
7.12 VAPOR RETARDER. REFER TO PROJECT MANUAL
7.13 SIDING ATTACHMENT SUBFRAMING. REFER TO PROJECT MANUAL
7.14 STANDING SEAM METAL ROOF. REFER TO PROJECT MANUAL
7.15 CONTINUOUS METAL SIDING BASE FLASHING.
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7.17 ALUMINUM WRAPPED FASCIA OVER WOOD BLOCKING
7.18 STONE ANCHOR. (2) PER STONE MINIMUM. (3) PER STONE OVER 48" LONG
7.19 ROOF ICE GUARD BY ROOF MANUF. REFER TO PROJECT MANUAL
7.20 FLASHING / COUNTERFLASHING. SEE DETAIL
7.21 METAL DRIP EDGE
7.22 FILL VOIDS WITH CLOSED-CELL SPRAY FOAM INSULATION. PROVIDE IGNITION BARRIER COATING ON (INTERIOR) EXPOSED SIDE
7.23 EIFS SYSTEM ON 1" INSULATION. REFER TO PROJECT MANUAL
7.24 CURVED VINYL CASING BEAD. BASIS OF DESIGN: CLARK DIETRICH CBS150-332
7.25 SELF ADHERED FLEXIBLE MEMBRANE FLASHING OVER ENTIRE WALL SURFACE LAP JOINTS MIN. 6"
7.26 1/2" GLASS-MAT GYPSUM SHEATHING

8.1 DOOR & FRAME. REFER TO DOOR SCHEDULE.
8.2 WINDOW, REFER TO FLOOR PLAN FOR TYPE.
8.3 THRESHOLD BY DOOR MANUFACTURER, REFER TO DOOR DETAILS.
8.4 ALUMINUM SUBSILL BY WINDOW MANUFACTURER. FINISH TO MATCH WINDOW.
8.5 OVERHEAD DOOR, REFER TO DOOR SCHEDULE
8.6 REFER TO ALUMINUM WINDOW ELEVATIONS AND PROJECT MANUAL.
8.7 ACCESS DOOR; BASIS OF DESIGN: NYSTROM RGB SERIES HINGED 24"X36" ACCESS DOOR.

9.1 CFMF @16" O.C.
9.2 CFMF BRACING @ 48"O.C.
9.3 5/8" ABUSE RESISTANT GYPSUM BOARD, FULL HEIGHT
9.4 CONTINUOUS 3 5/8" CFMF
9.5 WINDOW TRIM AND SILL. REFER TO WINDOW DETAILS.
9.6 5/8"GYPSUM BOARD
9.7 5/8" GYPSUM BOARD AT BOTTOM OF TRUSS (TYPICAL).
9.8 SUSPENDED ACOUSTICAL CEILING PANELS AND GRID.
9.9 METAL 'J' MOLD
9.10 WALL BASE, SEE FINISH SCHEDULE.
9.11 6" CFMF BOX BEAM. REFER TO STRUCTURAL DRAWINGS
9.12 SUSPENDED GYPSUM CEILING

10.1 LOUVER
10.2 GRILLE, REFER TO MECHANICAL DRAWINGS.

12.1 CASEWORK, REFER TO EQUIPMENT DRAWINGS
12.2 WINDOW SHADES, REFER TO PROJECT MANUAL.

23.1 HVAC EQUIPMENT AND DUCTS, SEE HVAC DRAWINGS
23.2 MECHANICAL LOUVER. REFER TO MECHANICAL DRAWINGS.

26.1 LIGHT FIXTURE, SEE ELECTIRCAL DRAWINGS.

FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS
226 N. MIAMI AVE.
P.O. BOX 220
SIDNEY, OHIO 45365
(937) 492-6983
www.freytaginc.com
info@freytaginc.com

NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY

2324 CAMPBELL ROAD SIDNEY, OH 45365

STATE OF OHIO
DANIEL J. FREYTAG 8533
REGISTERED ARCHITECT

Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

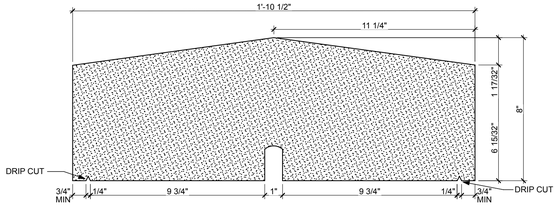
REVISIONS
STORM SHELTER REVIEW
PLAN APPROVAL / BIDDING
1 ADDENDUM 2 1/10/2025
2 ADDENDUM 3 1/24/2025

COMM. NUMBER	DATE
2207.02	11/22/24
DRAWN BY	CHECKED BY
AF/RS	DF

ENTRY WALL SECTIONS

A6.4

PLOT DATE: 1/23/25 @ 2:58 PM LAYOUT: A6-A6.4-WALL SECTIONS AND DETAILS ENTRY WALL SECTIONS FILENAME: 231103 Fire Station CD FILE PATH: BIMcloud: freytaginc - BIMcloud Software as a Service/231103 Fire Station CD



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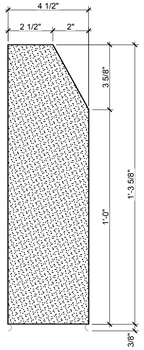

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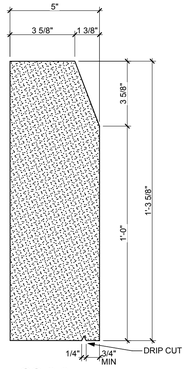

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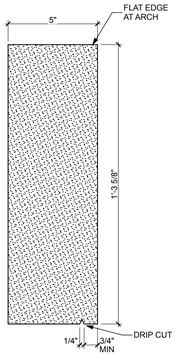

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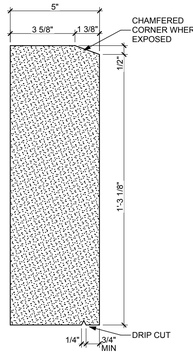

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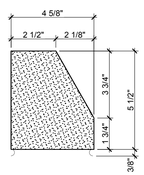
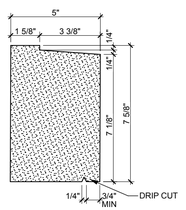


CS 4.0



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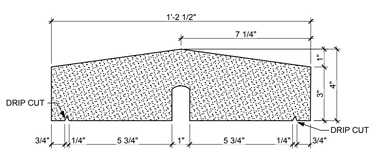

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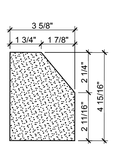

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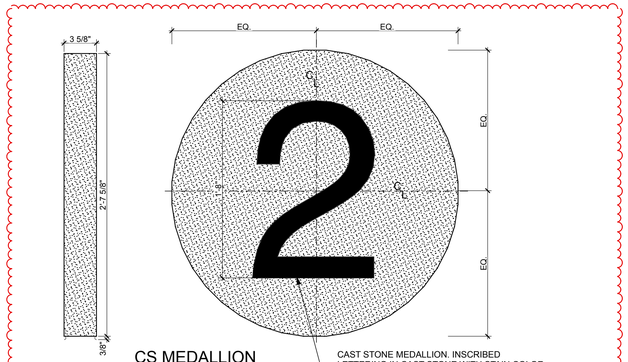


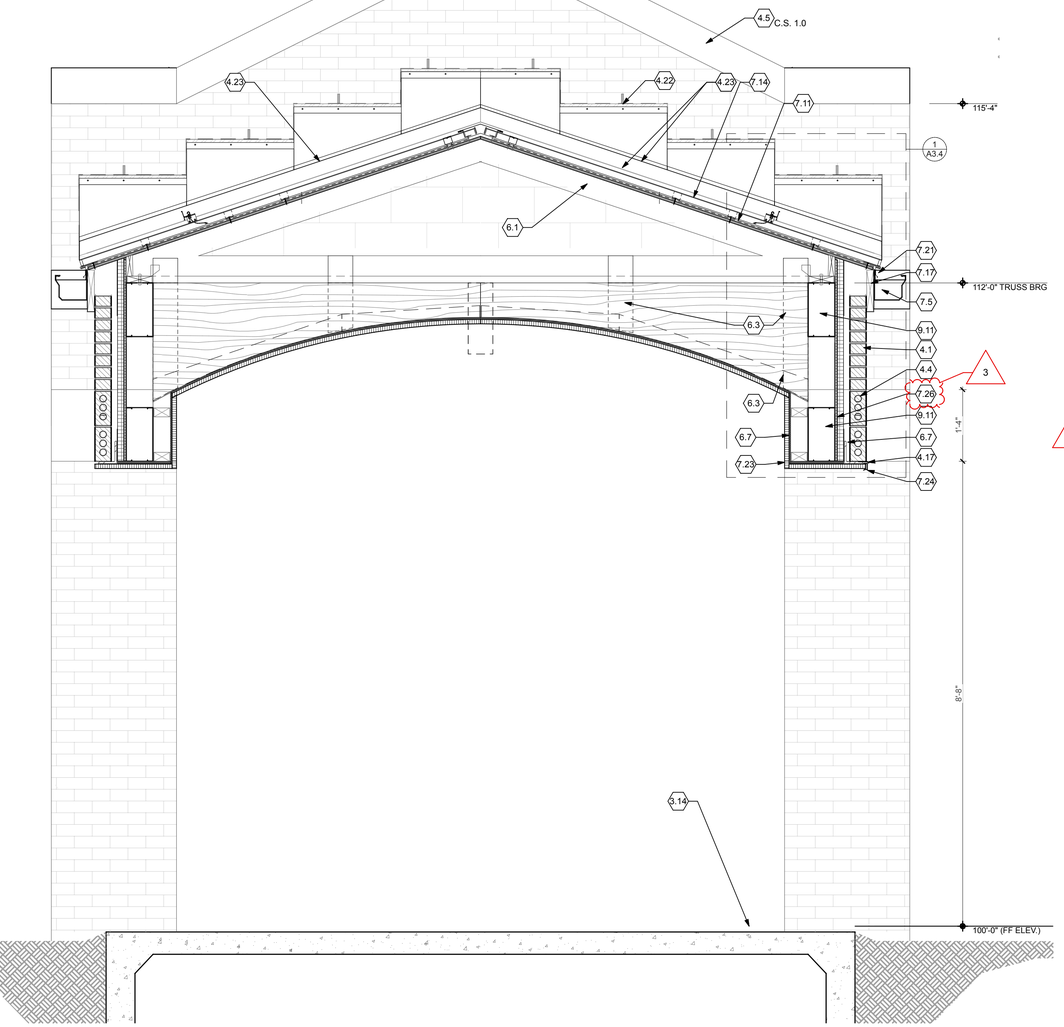
CS MEDALLION

2 A6.5 CAST STONE DETAIL

SCALE: 1 1/2"= 1'-0"

3 CAST STONE DETAILS

A6.5 SCALE: 3" = 1'-0"



1 A6.5 ENTRY SECTION

SCALE: 3/4" = 1'-0"

SECTION NOTES

SECTION NOTES ARE STD. FOR ALL SECTIONS. ALL NOTES MAY NOT BE REFERENCED ON THIS SHEET.

1.1 AIR SPACE
1.2 GRADE, REFER TO SITE PLAN

2.1 4" COMPACTED GRAVEL BASE (TYPICAL).
2.2 COMPACTED GRAVEL BACKFILL

3.1 1/4" EXPANSION FILLER
3.2 2" EXTRUDED POLYSTYRENE BOARD INSULATION (R 10 MIN.)
3.3 CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS.
3.4 FOUNDATION WALL AND FOOTING. REFER TO STRUCTURAL DETAILS FOR SIZE, BOTTOM OF FOOTING DEPTH AND REINFORCING.
3.5 THICKENED SLAB FOUNDATION. REFER TO STRUCTURAL DRAWINGS.
3.6 VAPOR BARRIER (TYPICAL). REFER TO PROJECT MANUAL.
3.7 4" CONCRETE SLAB AND METAL DECK, REFER TO STRUCTURAL DRAWINGS AND PROJECT MANUAL.
3.8 PRECAST HOLLOW CORE PLANKS WITH CONCRETE TOPPING, REFER TO STRUCTURAL DRAWINGS.
3.9 INSULATED CONCRETE FLOOR SLAB, REFER TO STRUCTURAL DRAWINGS.
3.10 SEALANT @ PERIMETER OF SLAB/FOUNDATION
3.11 REINFORCED CONCETE SLAB, REFER TO SITE PLAN FOR DETAIL.
3.12 EXTERIOR CONCRETE STOOP. REFER TO SITE DRAWINGS
3.13 PRECAST HOLLOW CORE CONCRETE SLAB UNITS. REFER TO STRUCTURAL DRAWINGS.
3.14 'TURN-DOWN' SLAB, REFER TO STRUCTURAL DRAWINGS.
3.15 CONCRETE FROST STOOP. REFER TO STRUCTURAL DRAWINGS.
3.16 EXTERIOR CONCRETE SLAB, REFER TO SITE DRAWINGS.
3.17 CMU FOUNDATION, REFER TO STRUCTURAL

4.1 CONCRETE MASONRY UNIT (CMU)
4.2 SOLID CONCRETE MASONRY UNIT (CMU).
4.3 FACE BRICK.
4.4 FACE BRICK SOLIDER COURSE (2 COURSES) W/ HORIZONTAL JOINT REINFORCING WALL TIE AT TOP AND BOTTOM COURSE.
4.5 CAST STONE. REFER TO DETAILS ON A6.5.
4.6 WEEP VENT @ 32" O.C.
4.7 CMU BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
4.7.1 CONT. 16" DP. BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
4.8 HORIZONTAL JOINT REINFORCEMENT WALL TIE @ 16 O.C. VERTICAL (MAX)
4.9 ANCHOR BOLTS. REFER TO STRUCTURAL DRAWINGS.
4.10 CMU GROUTED SOLID. REFER TO STRUCTURAL DRAWINGS
4.11 CONCRETE BRICK.
4.12 CAVITY MORTAR PROTECTION
4.13 CUT CMU BLOCK AS REQUIRED.
4.14 METAL THRU WALL FLASHING.
4.15 HORIZONTAL JOINT REINFORCEMENT
4.16 FILL CORES OF CMU WITH GROUT PROVIDE REINFORCING DOWELS, 16"O.C. REFER TO STRUCTURAL FOR REINFORCING
4.17 STAINLESS STEEL DRIP EDGE
4.18 GROUT VOID FULL
4.19 AIRSPACE
4.20 BEARING PLATE. REFER TO STRUCTURAL DRAWINGS.
4.21 VERTICAL REINFORCING. REFER TO STRUCTURAL DRAWINGS
4.22 MEMBRANE THRU WALL FLASHING
4.23 FLASHING/ COUNTER FLASHING
4.24 WEEP VENT, ONE PER SIDE OF COLUMN
4.25 12X16 CAST STONE MEMORIAL PLAQUE W/ INSCRIPTION
4.26 CAST STONE MEDALLION. REFER TO DETAIL 3/A6.5

5.1 BEAM. REFER TO STRUCTURAL DRAWINGS.
5.2 BEAM AND PLATE. REFER TO STRUCTURAL DRAWINGS.
5.3 COLUMN. REFER TO STRUCTURAL DRAWINGS.
5.4 STEEL LINTEL. REFER TO STRUCTURAL DRAWINGS.
5.5 STEEL ANGLE. REFER TO STRUCTURAL DRAWINGS.
5.6 STAIR STRINGER / STRUCTURAL SUPPORT. REFER TO SPECIFICATION AND COORDINATE WITH APPROVED SUBMITTALS.
5.7 METAL HANDRAIL, REFER TO SPECIFICATIONS AND DETAIL 8/A6.8.
5.8 STEEL ROOF DECK, 3" REFER TO STRUCTURAL DRAWINGS.
5.9 METAL PAN STAIR/LANDING, REFER TO STAIR DETAILS.
5.11 STEEL LADDER. REFER TO SPECIFICATIONS. COORDINATE LOCATION AND CLEARANCES WITH ELEVATOR EQUIPMENT.
5.10 METAL GUARD RAIL, REFER TO DETAIL 5/A6.7.
5.12 ROOF TRUSS. REFER TO STRUCTURAL DRAWINGS.
5.13 STEEL MC CHANNEL. REFER TO STRUCTURAL DRAWINGS.
5.14 INSIDE GALVANIZED METAL CLOSURES FOR ROOF DECKING.
5.15 METAL PAN STAIR / LANDING, REFER TO STAIR DETAILS.

6.1 FRTW ROOF TRUSSES. REFER TO STRUCTURAL DRAWINGS.
6.2 FRTW 2X10 FASCIA.
6.3 FRTW 2X BLOCKING
6.4 FRTW PLATE. REFER TO STRUCTURAL
6.5 FRTW 2X6 SOFFIT FRAMING. REFER TO STRUCTURAL DRAWINGS.
6.6 5/8" FRT PLYWOOD ROOF SHEATHING. REFER TO PROJECT MANUAL.
6.7 FRT EXTERIOR GRADE PLYWOOD SHEATHING. REFER TO PROJECT MANUAL
6.8 2X6 LADDER FRAMING (OUTRIGGER) REFER TO STRUCTURAL DRAWINGS.
6.9 CONTINUOUS FRTW 2X12 BEAM. STAGGER JOINTS ABOVE COLUMN.
6.10 WOOD POST. REFER TO STRUCTURAL DRAWINGS
6.11 P.T WOOD NAILER
6.12 FRTW OVER FRAMING @ 16" O.C. (U.N.O) REFER TO STRUCTURAL DRAWINGS.
6.13 FRTW 2X8 ROOF RAFTER. SECURE TO TRUSS
6.14 FRTW 2X8 @ 16" O.C W/ 5/8" PLYWOOD T&B. REFER TO STRUCTURAL DRAWINGS

7.1 BOARD STOCK AIR BARRIER / WALL INSULATION, 1 1/2" @ CFMF WALLS, 2.5" @ MASONRY WALLS. REFER TO PROJECT MANUAL.
7.2 CLOSED CELL POLYURETHANE INSULATION (SPF) (R 16.25 MIN)
7.3 METAL PANEL SIDING. REFER TO PROJECT MANUAL
7.4 EXPANSION JOINT
7.5 7" METAL GUTTER. STYLE D. REFER TO ROOF PLAN FOR DOWNSPOUT LOCATIONS AND DETAILS
7.6 POLYISO BD. ROOF INSULATION. CONSISTING OF (2) 2.6" THICK LAYERS W/ STAGGERED JOINTS. (R30)
7.7 CLOSED CELL INSULATION (R38) SPRAYED DIRECTLY TO ROOF DECK.
7.8 SEALANT W/ BACKER ROD
7.9 SEALANT, REFER TO PROJECT MANUAL
7.10 METAL SOFFIT PANEL SYSTEM. REFER TO PROJECT MANUAL.
7.11 SELF ADHERING ROOF UNDERLAYMENT. REFER TO PROJECT MANUAL
7.12 VAPOR RETARDER. REFER TO PROJECT MANUAL
7.13 SIDING ATTACHMENT SUBFRAMING. REFER TO PROJECT MANUAL
7.14 STANDING SEAM METAL ROOF. REFER TO PROJECT MANUAL
7.15 CONTINUOUS METAL SIDING BASE FLASHING.
7.16 STEP FLASHING. SEE DETAILS
7.17 ALUMINUM WRAPPED FASCIA OVER WOOD BLOCKING
7.18 STONE ANCHOR. (2) PER STONE MINIMUM. (3) PER STONE OVER 48" LONG
7.19 ROOF ICE GUARD BY ROOF MANUF. REFER TO PROJECT MANUAL
7.20 FLASHING / COUNTERFLASHING. SEE DETAIL
7.21 METAL DRIP EDGE
7.22 FILL VOIDS WITH CLOSED-CELL SPRAY FOAM INSULATION. PROVIDE IGNITION BARRIER COATING ON (INTERIOR) EXPOSED SIDE.
7.23 EIFS SYSTEM ON 1" INSULATION. REFER TO PROJECT MANUAL
7.24 CURVED VINYL CASING BEAD. BASIS OF DESIGN: CLARK DIETRICH CBS150-332
7.25 SELF ADHERED FLEXIBLE MEMBRANE FLASHING OVER ENTIRE WALL SURFACE LAP JOINTS MIN. 6"
7.26 1/2" GLASS-MAT GYPSUM SHEATHING

8.1 DOOR & FRAME. REFER TO DOOR SCHEDULE.
8.2 WINDOW, REFER TO FLOOR PLAN FOR TYPE.
8.3 THRESHOLD BY DOOR MANUFACTURER. REFER TO DOOR DETAILS.
8.4 ALUMINUM SUBSILL BY WINDOW MANUFACTURER. FINISH TO MATCH WINDOW.
8.5 OVERHEAD DOOR, REFER TO DOOR SCHEDULE
8.6 REFER TO ALUMINUM WINDOW ELEVATIONS AND PROJECT MANUAL.
8.7 ACCESS DOOR; BASIS OF DESIGN: NYSTROM RGB SERIES HINGED 24"X36" ACCESS DOOR.

9.1 CFMF @16" O.C.
9.2 CFMF BRACING @ 48"O.C.
9.3 5/8" ABUSE RESISTANT GYPSUM BOARD, FULL HEIGHT
9.4 CONTINUOUS 3 5/8" CFMF
9.5 WINDOW TRIM AND SILL. REFER TO WINDOW DETAILS.
9.6 5/8"GYPSUM BOARD
9.7 5/8" GYPSUM BOARD AT BOTTOM OF TRUSS (TYPICAL).
9.8 SUSPENDED ACOUSTICAL CEILING PANELS AND GRID.
9.9 METAL J' MOLD
9.10 WALL BASE, SEE FINISH SCHEDULE.
9.11 6" CFMF BOX BEAM. REFER TO STRUCTURAL DRAWINGS
9.12 SUSPENDED GYPSUM CEILING

10.1 LOUVER
10.2 GRILLE, REFER TO MECHANICAL DRAWINGS.

12.1 CASEWORK, REFER TO EQUIPMENT DRAWINGS
12.2 WINDOW SHADES, REFER TO PROJECT MANUAL.

23.1 HVAC EQUIPMENT AND DUCTS, SEE HVAC DRAWINGS
23.2 MECHANICAL LOUVER. REFER TO MECHANICAL DRAWINGS.

26.1 LIGHT FIXTURE, SEE ELECTIRCAL DRAWINGS.

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NEW CONSTRUCTION OF
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STATE OF OHIO
DANIEL J. FREYTAG 8533
REGISTERED ARCHITECT

Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

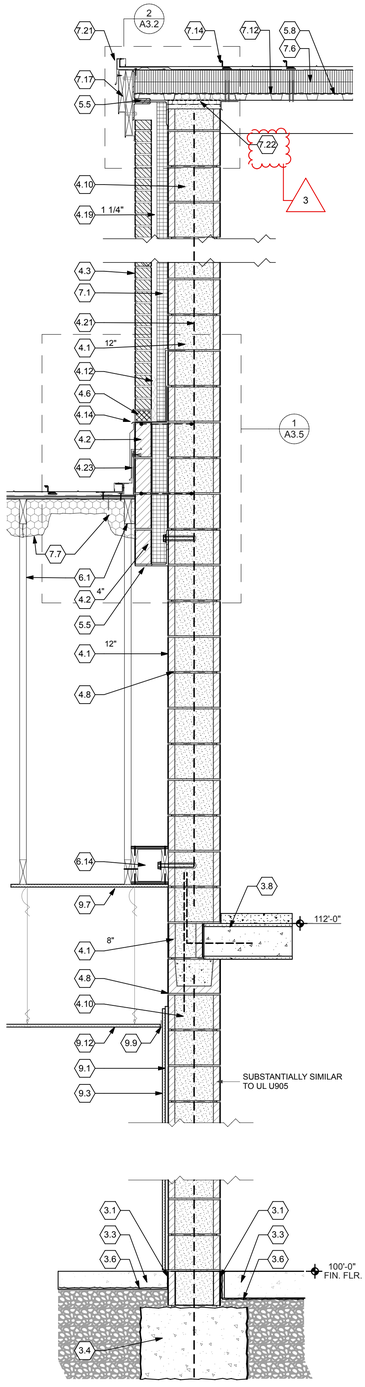
REVISIONS
STORM SHELTER REVIEW
PLAN APPROVAL / BIDDING
1 ADDENDUM 2 1/10/2025
2 ADDENDUM 3 1/24/2025

COMM. NUMBER	DATE
2207.02	11/22/24
DRAWN BY	CHECKED BY
AF/RS	DF

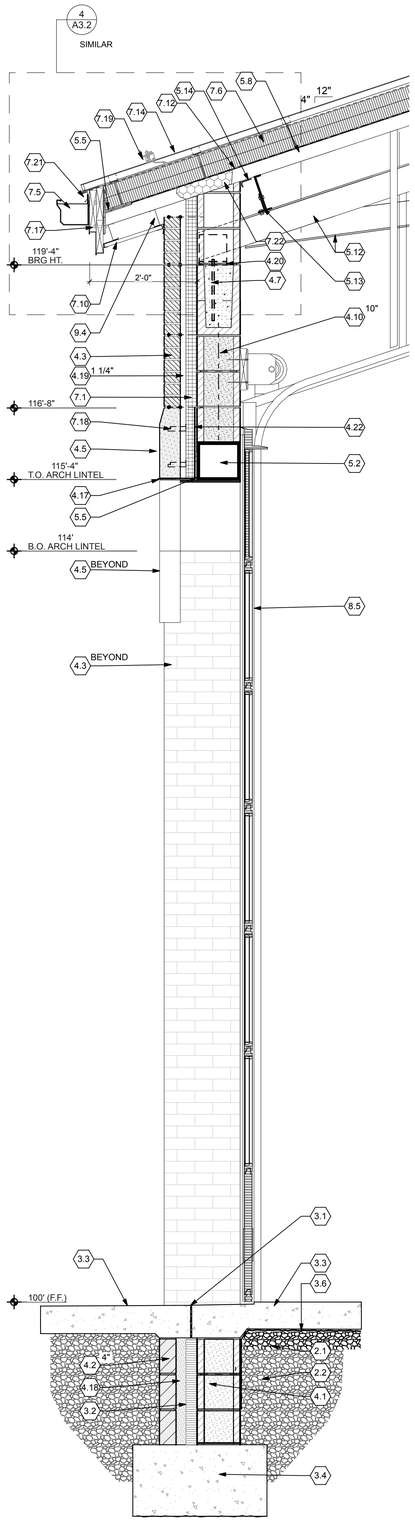
ENTRY WALL SECTIONS

A6.5

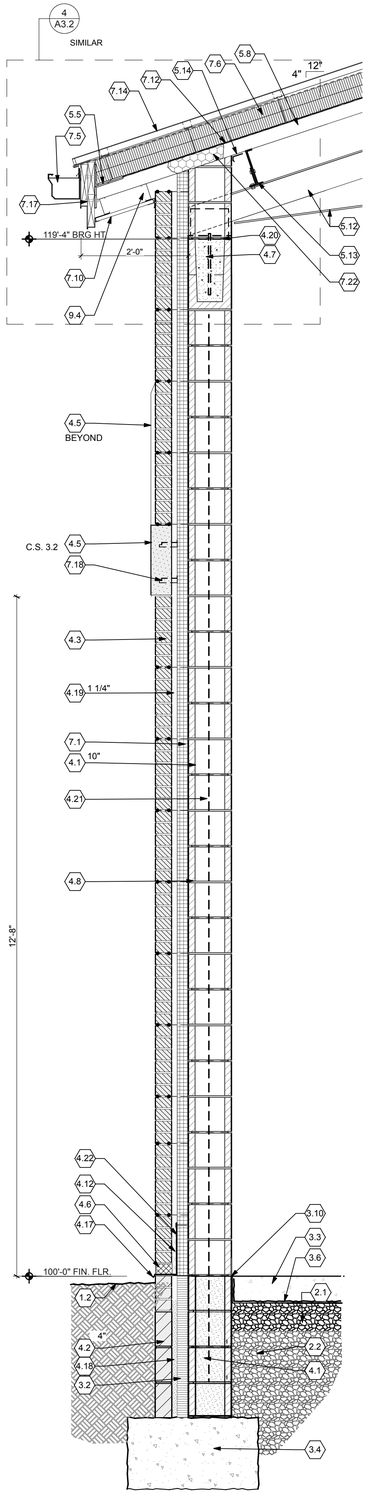
PLOT DATE: 1/23/25 @ 2:59 PM LAYOUT: A6.A6.5-WALL SECTIONS AND DETAILS : ENTRY WALL SECTIONS FILENAME: 231103 Fire Station CD FILE PATH: BIMcloud: freytaginc - BIMcloud Software as a Service/231103 Fire Station CD



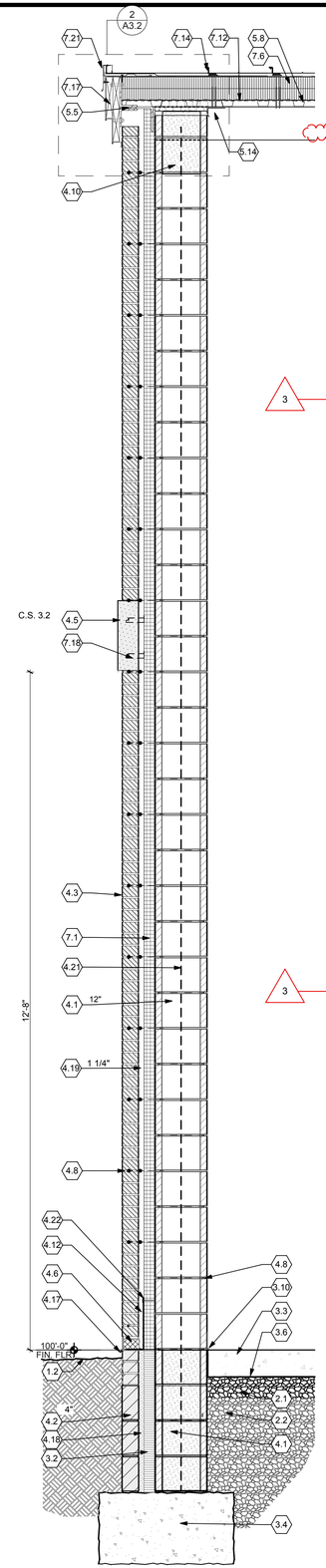
4 WALL SECTION
A6.6 SCALE: 3/4" = 1'-0"



3 WALL SECTION
A6.6 SCALE: 3/4" = 1'-0"



2 WALL SECTION
A6.6 SCALE: 3/4" = 1'-0"



1 WALL SECTION
A6.6 SCALE: 3/4" = 1'-0"

SECTION NOTES

SECTION NOTES ARE STD. FOR ALL SECTIONS. ALL NOTES MAY NOT BE REFERENCED ON THIS SHEET.

1.1 AIR SPACE
1.2 GRADE, REFER TO SITE PLAN

2.1 4" COMPACTED GRAVEL BASE (TYPICAL).
2.2 COMPACTED GRAVEL BACKFILL

3.1 1/4" EXPANSION FILLER
3.2 2" EXTRUDED POLYSTYRENE BOARD INSULATION (R 10 MIN.)
3.3 CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS.
3.4 FOUNDATION WALL AND FOOTING. REFER TO STRUCTURAL DETAILS FOR SIZE, BOTTOM OF FOOTING DEPTH AND REINFORCING.
3.5 THICKENED SLAB FOUNDATION. REFER TO STRUCTURAL DRAWINGS.
3.6 VAPOR BARRIER (TYPICAL). REFER TO PROJECT MANUAL.
3.7 4" CONCRETE SLAB AND METAL DECK, REFER TO STRUCTURAL DRAWINGS AND PROJECT MANUAL.
3.8 PRECAST HOLLOW CORE PLANKS WITH CONCRETE TOPPING, REFER TO STRUCTURAL DRAWINGS.
3.9 INSULATED CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS.
3.10 SEALANT @ PERIMETER OF SLAB/FOUNDATION
3.11 REINFORCED CONCETE SLAB, REFER TO SITE PLAN FOR DETAIL.
3.12 EXTERIOR CONCRETE STOOP. REFER TO SITE DRAWINGS
3.13 PRECAST HOLLOW CORE CONCRETE SLAB UNITS. REFER TO STRUCTURAL DRAWINGS.
3.14 'TURN-DOWN' SLAB, REFER TO STRUCTURAL DRAWINGS.
3.15 CONCRETE FROST STOOP. REFER TO STRUCTURAL DRAWINGS.
3.16 EXTERIOR CONCRETE SLAB, REFER TO SITE DRAWINGS.
3.17 CMU FOUNDATION, REFER TO STRUCTURAL

4.1 CONCRETE MASONRY UNIT (CMU)
4.2 SOLID CONCRETE MASONRY UNIT (CMU).
4.3 FACE BRICK.
4.4 FACE BRICK SOLIDER COURSE (2 COURSES) W/ HORIZONTAL JOINT REINFORCING WALL TIE AT TOP AND BOTTOM COURSE.
4.5 CAST STONE. REFER TO DETAILS ON A6.5.
4.6 WEEP VENT @ 32" O.C.
4.7 CMU BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
4.7.1 CONT. 16" DP. BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
4.8 HORIZONTAL JOINT REINFORCEMENT WALL TIE @ 16 O.C. VERTICAL (MAX)
4.9 ANCHOR BOLTS. REFER TO STRUCTURAL DRAWINGS.
4.10 CMU GROUTED SOLID. REFER TO STRUCTURAL DRAWINGS
4.11 CONCRETE BRICK.
4.12 CAVITY MORTAR PROTECTION
4.13 CUT CMU BLOCK AS REQUIRED.
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4.15 HORIZONTAL JOINT REINFORCEMENT
4.16 FILL CORES OF CMU WITH GROUT PROVIDE REINFORCING DOWELS, 16"O.C. REFER TO STRUCTURAL FOR REINFORCING
4.17 STAINLESS STEEL DRIP EDGE
4.18 GROUT VOID FULL
4.19 AIRSPACE
4.20 BEARING PLATE. REFER TO STRUCTURAL DRAWINGS.
4.21 VERTICAL REINFORCING. REFER TO STRUCTURAL DRAWINGS
4.22 MEMBRANE THRU WALL FLASHING
4.23 FLASHING/ COUNTER FLASHING
4.24 WEEP VENT. ONE PER SIDE OF COLUMN
4.25 12X16 CAST STONE MEMORIAL PLAQUE W/ INSCRIPTION
4.26 CAST STONE MEDALLION. REFER TO DETAIL 3/A6.5

5.1 BEAM. REFER TO STRUCTURAL DRAWINGS.
5.2 BEAM AND PLATE. REFER TO STRUCTURAL DRAWINGS.
5.3 COLUMN. REFER TO STRUCTURAL DRAWINGS.
5.4 STEEL LINTEL. REFER TO STRUCTURAL DRAWINGS.
5.5 STEEL ANGLE. REFER TO STRUCTURAL DRAWINGS.
5.6 STAIR STRINGER / STRUCTURAL SUPPORT. REFER TO SPECIFICATION AND COORDINATE WITH APPROVED SUBMITTALS.
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5.8 STEEL ROOF DECK, 3" REFER TO STRUCTURAL DRAWINGS.
5.9 METAL PAN STAIR/LANDING, REFER TO STAIR DETAILS.
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5.10 METAL GUARD RAIL, REFER TO DETAIL 5/A6.7.
5.12 ROOF TRUSS. REFER TO STRUCTURAL DRAWINGS.
5.13 STEEL MC CHANNEL. REFER TO STRUCTURAL DRAWINGS.
5.14 INSIDE GALVANIZED METAL CLOSURES FOR ROOF DECKING.
5.15 METAL PAN STAIR / LANDING, REFER TO STAIR DETAILS.

6.1 FRTW ROOF TRUSSES. REFER TO STRUCTURAL DRAWINGS.
6.2 FRTW 2X10 FASCIA.
6.3 FRTW 2X BLOCKING
6.4 FRTW PLATE. REFER TO STRUCTURAL
6.5 FRTW 2X6 SOFFIT FRAMING. REFER TO STRUCTURAL DRAWINGS.
6.6 5/8" FRT PLYWOOD ROOF SHEATHING. REFER TO PROJECT MANUAL.
6.7 FRT EXTERIOR GRADE PLYWOOD SHEATHING. REFER TO PROJECT MANUAL
6.8 2X6 LADDER FRAMING (OUTRIGGER) REFER TO STRUCTURAL DRAWINGS.
6.9 CONTINUOUS FRTW 2X12 BEAM, STAGGER JOINTS ABOVE COLUMN.
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6.12 FRTW OVER FRAMING @ 16" O.C. (U.N.O) REFER TO STRUCTURAL DRAWINGS.
6.13 FRTW 2X8 ROOF RAFTER. SECURE TO TRUSS
6.14 FRTW 2X8 @ 16" O.C W/ 5/8" PLYWOOD T&B. REFER TO STRUCTURAL DRAWINGS

7.1 BOARD STOCK AIR BARRIER / WALL INSULATION. 1 1/2" @ CFMF WALLS, 2.5" @ MASONRY WALLS. REFER TO PROJECT MANUAL
7.2 CLOSED CELL POLYURETHANE INSULATION (SPF) (R 16.25 MIN)
7.3 METAL PANEL SIDING. REFER TO PROJECT MANUAL
7.4 EXPANSION JOINT
7.5 7" METAL GUTTER. STYLE D. REFER TO ROOF PLAN FOR DOWNSPOUT LOCATIONS AND DETAILS
7.6 POLYISO BD. ROOF INSULATION. CONSISTING OF (2) 2.6" THICK LAYERS W/ STAGGERED JOINTS. (R30)
7.7 CLOSED CELL INSULATION (R38) SPRAYED DIRECTLY TO ROOF DECK.
7.8 SEALANT W/ BACKER ROD
7.9 SEALANT, REFER TO PROJECT MANUAL
7.10 METAL SOFFIT PANEL SYSTEM. REFER TO PROJECT MANUAL.
7.11 SELF ADHERING ROOF UNDERLAYMENT. REFER TO PROJECT MANUAL
7.12 VAPOR RETARDER. REFER TO PROJECT MANUAL
7.13 SIDING ATTACHMENT SUBFRAMING. REFER TO PROJECT MANUAL
7.14 STANDING SEAM METAL ROOF. REFER TO PROJECT MANUAL
7.15 CONTINUOUS METAL SIDING BASE FLASHING.
7.16 STEP FLASHING. SEE DETAILS
7.17 ALUMINUM WRAPPED FASCIA OVER WOOD BLOCKING
7.18 STONE ANCHOR. (2) PER STONE MINIMUM. (3) PER STONE OVER 48" LONG
7.19 ROOF ICE GUARD BY ROOF MANUF. REFER TO PROJECT MANUAL
7.20 FLASHING / COUNTERFLASHING. SEE DETAIL
7.21 METAL DRIP EDGE
7.22 FILL VOIDS WITH CLOSED-CELL SPRAY FOAM INSULATION. PROVIDE IGNITION BARRIER COATING ON (INTERIOR) EXPOSED SIDE
7.23 EIFS SYSTEM ON 1" INSULATION. REFER TO PROJECT MANUAL
7.24 CURVED VINYL CASING BEAD. BASIS OF DESIGN: CLARK DIETRICH CBS150-332
7.25 SELF ADHERED FLEXIBLE MEMBRANE FLASHING OVER ENTIRE WALL SURFACE LAP JOINTS MIN. 6"
7.26 1/2" GLASS-MAT GYPSUM SHEATHING

8.1 DOOR & FRAME. REFER TO DOOR SCHEDULE.
8.2 WINDOW, REFER TO FLOOR PLAN FOR TYPE.
8.3 THRESHOLD BY DOOR MANUFACTURER, REFER TO DOOR DETAILS.
8.4 ALUMINUM SUBSILL BY WINDOW MANUFACTURER. FINISH TO MATCH WINDOW.
8.5 OVERHEAD DOOR, REFER TO DOOR SCHEDULE.
8.6 REFER TO ALUMINUM WINDOW ELEVATIONS AND PROJECT MANUAL.
8.7 ACCESS DOOR; BASIS OF DESIGN: NYSTROM RGB SERIES HINGED 24"X36" ACCESS DOOR.

9.1 CFMF @16" O.C.
9.2 CFMF BRACING @ 48"O.C.
9.3 5/8" ABUSE RESISTANT GYPSUM BOARD, FULL HEIGHT
9.4 CONTINUOUS 3 5/8" CFMF
9.5 WINDOW TRIM AND SILL. REFER TO WINDOW DETAILS.
9.6 5/8"GYPSUM BOARD
9.7 5/8" GYPSUM BOARD AT BOTTOM OF TRUSS (TYPICAL).
9.8 SUSPENDED ACOUSTICAL CEILING PANELS AND GRID.
9.9 METAL 'J' MOLD
9.10 WALL BASE, SEE FINISH SCHEDULE.
9.11 6" CFMF BOX BEAM. REFER TO STRUCTURAL DRAWINGS
9.12 SUSPENDED GYPSUM CEILING

10.1 LOUVER
10.2 GRILLE, REFER TO MECHANICAL DRAWINGS.

12.1 CASEWORK, REFER TO EQUIPMENT DRAWINGS
12.2 WINDOW SHADES, REFER TO PROJECT MANUAL.

23.1 HVAC EQUIPMENT AND DUCTS, SEE HVAC DRAWINGS
23.2 MECHANICAL LOUVER. REFER TO MECHANICAL DRAWINGS.

26.1 LIGHT FIXTURE, SEE ELECTIRCAL DRAWINGS.

FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS
226 N. MIAMI AVE.
P.O. BOX 220
SIDNEY, OHIO 45365
(937) 492-6983
www.freytagarc.com
info@freytagarc.com

NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY

2324 CAMPBELL ROAD SIDNEY, OH 45365

STATE OF OHIO
DANIEL J. FREYTAG 8533
REGISTERED ARCHITECT

Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

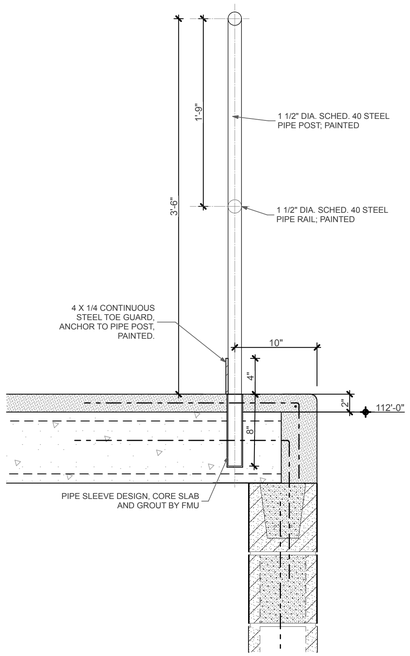
REVISIONS
STORM SHELTER REVIEW
PLAN APPROVAL / BIDDING
1 ADDENDUM 2 1/10/2025
2 ADDENDUM 3 1/24/2025

COMM. NUMBER	DATE
2207.02	11/22/24
DRAWN BY	CHECKED BY
AF/RS	DF

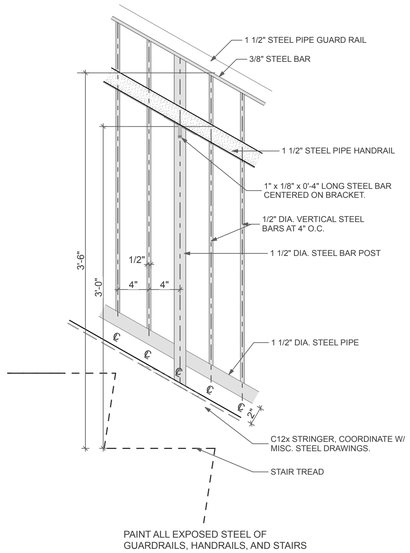
WALL SECTIONS

A6.6

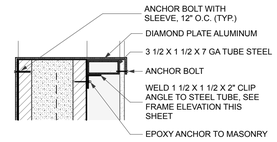
PLOT DATE: 1/23/25 @ 2:59 PM LAYOUT: A6.6-WALL SECTIONS AND DETAILS - WALL SECTIONS FILENAME: 231103 Fire Station CD FILE PATH: BIMcloud: freytaginc - BIMcloud Software as a Service/231103 Fire Station CD



4 A6.7 GUARDRAIL
SCALE: 1 1/2"= 1'-0"



5 A6.7 RAILING DETAIL
SCALE: 1 1/2"= 1'-0"

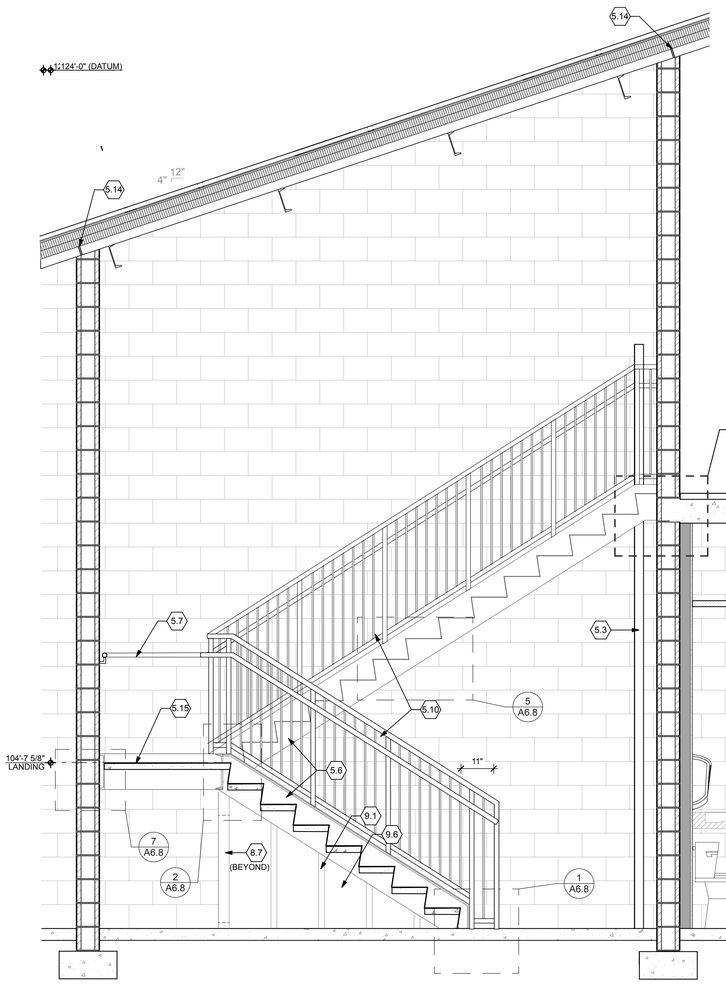


6 A6.7 TRAINING WINDOW SILL
SCALE: 1 1/2"= 1'-0"

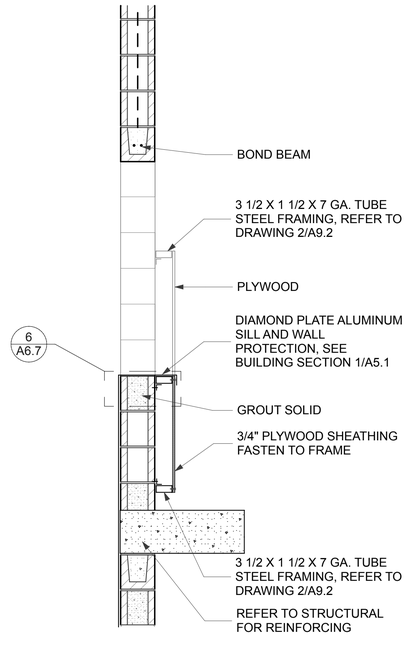
STRUCTURAL PERFORMANCE: RAILINGS SHALL WITHSTAND THE EFFECTS OF GRAVITY LOADS AND THE FOLLOWING LOADS AND STRESSES WITHIN LIMITS AND UNDER CONDITIONS INDICATED:

HANDRAILS AND TOP RAILS OF GUARDS:
- UNIFORM LOAD OF 50 LBF / FT. APPLIED IN ANY DIRECTION.
- CONCENTRATED LOAD OF 200 LBF APPLIED IN ANY DIRECTION.
- UNIFORM AND CONCENTRATED LOADS NEED NOT BE ASSUMED TO ACT CONCURRENTLY.

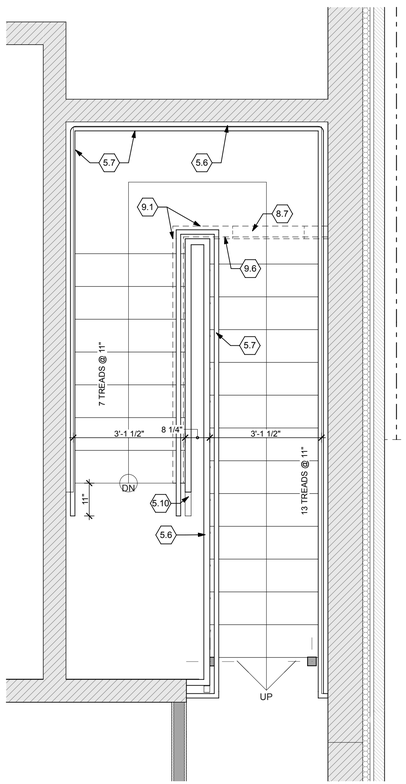
INFILL OF GUARDS:
- CONCENTRATED LOAD OF 50 LBF APPLIED HORIZONTALLY ON AN AREA OF 1 SQ. FT.
- INFILL LOAD AND OTHER LOADS NEED NOT BE ASSUMED TO ACT CONCURRENTLY.



1 A6.7 STAIR SECTION
SCALE: 1/2" = 1'-0"



3 A6.7 SECTION AT TRAINING WINDOW
SCALE: 3/4" = 1'-0"



2 A6.7 STAIR PLAN
SCALE: 1/2" = 1'-0"

SECTION NOTES

SECTION NOTES ARE STD. FOR ALL SECTIONS. ALL NOTES MAY NOT BE REFERENCED ON THIS SHEET.

1.1 AIR SPACE
1.2 GRADE, REFER TO SITE PLAN

2.1 4" COMPACTED GRAVEL BASE (TYPICAL).
2.2 COMPACTED GRAVEL BACKFILL

3.1 1/4" EXPANSION FILLER
3.2 2" EXTRUDED POLYSTYRENE BOARD INSULATION (R 10 MIN.)
3.3 CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS.
3.4 FOUNDATION WALL AND FOOTING. REFER TO STRUCTURAL DETAILS FOR SIZE, BOTTOM OF FOOTING DEPTH AND REINFORCING.
3.5 THICKENED SLAB FOUNDATION. REFER TO STRUCTURAL DRAWINGS.
3.6 VAPOR BARRIER (TYPICAL). REFER TO PROJECT MANUAL.
3.7 4" CONCRETE SLAB AND METAL DECK, REFER TO STRUCTURAL DRAWINGS AND PROJECT MANUAL.
3.8 PRECAST HOLLOW CORE PLANKS WITH CONCRETE TOPPING, REFER TO STRUCTURAL DRAWINGS.
3.9 INSULATED CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS.
3.10 SEALANT @ PERIMETER OF SLAB/FOUNDATION
3.11 REINFORCED CONCETE SLAB. REFER TO SITE PLAN FOR DETAIL.
3.12 EXTERIOR CONCRETE STOOP. REFER TO SITE DRAWINGS
3.13 PRECAST HOLLOW CORE CONCRETE SLAB UNITS. REFER TO STRUCTURAL DRAWINGS.
3.14 'TURN-DOWN' SLAB, REFER TO STRUCTURAL DRAWINGS.
3.15 CONCRETE FROST STOOP. REFER TO STRUCTURAL DRAWINGS.
3.16 EXTERIOR CONCRETE SLAB, REFER TO SITE DRAWINGS.
3.17 CMU FOUNDATION, REFER TO STRUCTURAL

4.1 CONCRETE MASONRY UNIT (CMU)
4.2 SOLID CONCRETE MASONRY UNIT (CMU).
4.3 FACE BRICK.
4.4 FACE BRICK SOLIDER COURSE (2 COURSES) W/ HORIZONTAL JOINT REINFORCING
4.5 CAST STONE. REFER TO DETAILS ON A6.5.
4.6 WEEP VENT @ 32" O.C.
4.7 CMU BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
4.7.1 CONT. 16" DP. BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
4.8 HORIZONTAL JOINT REINFORCEMENT WALL TIE @ 16 O.C. VERTICAL (MAX)
4.9 ANCHOR BOLTS. REFER TO STRUCTURAL DRAWINGS.
4.10 CMU GROUTED SOLID. REFER TO STRUCTURAL DRAWINGS
4.11 CONCRETE BRICK.
4.12 CAVITY MORTAR PROTECTION
4.13 CUT CMU BLOCK AS REQUIRED.
4.14 METAL THRU WALL FLASHING.
4.15 HORIZONTAL JOINT REINFORCEMENT
4.16 FILL CORES OF CMU WITH GROUT PROVIDE REINFORCING DOWELS, 16"O.C. REFER TO STRUCTURAL FOR REINFORCING
4.17 STAINLESS STEEL DRIP EDGE
4.18 GROUT VOID FULL
4.19 AIRSPACE
4.20 BEARING PLATE. REFER TO STRUCTURAL DRAWINGS.
4.21 VERTICAL REINFORCING. REFER TO STRUCTURAL DRAWINGS
4.22 MEMBRANE THRU WALL FLASHING
4.23 FLASHING/ COUNTER FLASHING
4.24 WEEP VENT. ONE PER SIDE OF COLUMN
4.25 12X16 CAST STONE MEMORIAL PLAQUE W/ INSCRIPTION
4.26 CAST STONE MEDALLION. REFER TO DETAIL 3/A6.5

5.1 BEAM. REFER TO STRUCTURAL DRAWINGS.
5.2 BEAM AND PLATE. REFER TO STRUCTURAL DRAWINGS.
5.3 COLUMN. REFER TO STRUCTURAL DRAWINGS.
5.4 STEEL LINTEL. REFER TO STRUCTURAL DRAWINGS.
5.5 STEEL ANGLE. REFER TO STRUCTURAL DRAWINGS.
5.6 STAIR STRINGER / STRUCTURAL SUPPORT. REFER TO SPECIFICATION AND COORDINATE WITH APPROVED SUBMITTALS.
5.7 METAL HANDRAIL, REFER TO SPECIFICATIONS AND DETAIL 8/A6.8.
5.8 STEEL ROOF DECK, 3" REFER TO STRUCTURAL DRAWINGS.
5.9 METAL PAN STAIR/LANDING, REFER TO STAIR DETAILS.
5.11 STEEL LADDER. REFER TO SPECIFICATIONS. COORDINATE LOCATION AND CLEARANCES WITH ELEVATOR EQUIPMENT.
5.10 METAL GUARD RAIL, REFER TO DETAIL 5/A6.7.
5.12 ROOF TRUSS. REFER TO STRUCTURAL DRAWINGS.
5.13 STEEL MC CHANNEL. REFER TO STRUCTURAL DRAWINGS.
5.14 INSIDE GALVANIZED METAL CLOSURES FOR ROOF DECKING.
5.15 METAL PAN STAIR / LANDING, REFER TO STAIR DETAILS.

6.1 FRTW ROOF TRUSSES. REFER TO STRUCTURAL DRAWINGS.
6.2 FRTW 2X10 FASCIA.
6.3 FRTW 2X BLOCKING
6.4 FRTW PLATE. REFER TO STRUCTURAL
6.5 FRTW 2X6 SOFFIT FRAMING. REFER TO STRUCTURAL DRAWINGS.
6.6 5/8" FRT PLYWOOD ROOF SHEATHING. REFER TO PROJECT MANUAL.
6.7 FRT EXTERIOR GRADE PLYWOOD SHEATHING. REFER TO PROJECT MANUAL
6.8 2X6 LADDER FRAMING (OUTRIGGER) REFER TO STRUCTURAL DRAWINGS.
6.9 CONTINUOUS FRTW 2X12 BEAM, STAGGER JOINTS ABOVE COLUMN.
6.10 WOOD POST. REFER TO STRUCTURAL DRAWINGS
6.11 P.T WOOD NAILER
6.12 FRTW OVER FRAMING @ 16" O.C. (U.N.O).REFER TO STRUCTURAL DRAWINGS.
6.13 FRTW 2X8 ROOF RAFTER. SECURE TO TRUSS
6.14 FRTW 2X8 @ 16" O.C W/ 5/8" PLYWOOD T&B. REFER TO STRUCTURAL DRAWINGS

7.1 BOARD STOCK AIR BARRIER / WALL INSULATION. 1 1/2" @ CFMF WALLS. 2.5" @ MASONRY WALLS. REFER TO PROJECT MANUAL.
7.2 CLOSED CELL POLYURETHANE INSULATION (SPF) (R 16.25" MIN)
7.3 METAL PANEL SIDING. REFER TO PROJECT MANUAL
7.4 EXPANSION JOINT
7.5 7" METAL GUTTER. STYLE D. REFER TO ROOF PLAN FOR DOWNSPOUT LOCATIONS AND DETAILS
7.6 POLYISO BD. ROOF INSULATION. CONSISTING OF (2) 2.6" THICK LAYERS W/ STAGGERED JOINTS. (R30)
7.7 CLOSED CELL INSULATION (R38) SPRAYED DIRECTLY TO ROOF DECK.
7.8 SEALANT W/ BACKER ROD
7.9 SEALANT, REFER TO PROJECT MANUAL
7.10 METAL SOFFIT PANEL SYSTEM. REFER TO PROJECT MANUAL.
7.11 SELF ADHERING ROOF UNDERLAYMENT. REFER TO PROJECT MANUAL
7.12 VAPOR RETARDER. REFER TO PROJECT MANUAL
7.13 SIDING ATTACHMENT SUBFRAMING. REFER TO PROJECT MANUAL.
7.14 STANDING SEAM METAL ROOF. REFER TO PROJECT MANUAL
7.15 CONTINUOUS METAL SIDING BASE FLASHING.
7.16 STEP FLASHING. SEE DETAILS
7.17 ALUMINUM WRAPPED FASCIA OVER WOOD BLOCKING
7.18 STONE ANCHOR. (2) PER STONE MINIMUM. (3) PER STONE OVER 48" LONG
7.19 ROOF ICE GUARD BY ROOF MANUF. REFER TO PROJECT MANUAL
7.20 FLASHING / COUNTERFLASHING. SEE DETAIL
7.21 METAL DRIP EDGE
7.22 FILL VOIDS WITH CLOSED-CELL SPRAY FOAM INSULATION. PROVIDE IGNITION BARRIER COATING ON INTERIOR) EXPOSED SIDE.
7.23 EIFS SYSTEM ON 1" INSULATION. REFER TO PROJECT MANUAL
7.24 CURVED VINYL CASING BEAD. BASIS OF DESIGN: CLARK DIETRICH CBS150-332
7.25 SELF ADHERED FLEXIBLE MEMBRANE FLASHING OVER ENTIRE WALL SURFACE LAP JOINTS MIN. 2"
7.26 1/2" GLASS-MAT GYPSUM SHEATHING

8.1 DOOR & FRAME. REFER TO DOOR SCHEDULE.
8.2 WINDOW. REFER TO FLOOR PLAN FOR TYPE.
8.3 THRESHOLD BY DOOR MANUFACTURER, REFER TO DOOR DETAILS.
8.4 ALUMINUM SUBSILL BY WINDOW MANUFACTURER. FINISH TO MATCH WINDOW.
8.5 OVERHEAD DOOR, REFER TO DOOR SCHEDULE
8.6 REFER TO ALUMINUM WINDOW ELEVATIONS AND PROJECT MANUAL.
8.7 ACCESS DOOR; BASIS OF DESIGN: NYSTROM RGB SERIES HINGED 24"X36" ACCESS DOOR.

9.1 CFMF @16" O.C.
9.2 CFMF BRACING @ 48"O.C.
9.3 5/8" ABUSE RESISTANT GYPSUM BOARD, FULL HEIGHT
9.4 CONTINUOUS 3 5/8" CFMF
9.5 WINDOW TRIM AND SILL. REFER TO WINDOW DETAILS.
9.6 5/8"GYPSUM BOARD
9.7 5/8" GYPSUM BOARD AT BOTTOM OF TRUSS (TYPICAL).
9.8 SUSPENDED ACOUSTICAL CEILING PANELS AND GRID.
9.9 METAL 'J' MOLD
9.10 WALL BASE, SEE FINISH SCHEDULE.
9.11 6" CFMF BOX BEAM. REFER TO STRUCTURAL DRAWINGS
9.12 SUSPENDED GYPSUM CEILING

10.1 LOUVER
10.2 GRILLE, REFER TO MECHANICAL DRAWINGS.

12.1 CASEWORK, REFER TO EQUIPMENT DRAWINGS
12.2 WINDOW SHADES, REFER TO PROJECT MANUAL.

23.1 HVAC EQUIPMENT AND DUCTS, SEE HVAC DRAWINGS
23.2 MECHANICAL LOUVER. REFER TO MECHANICAL DRAWINGS.

26.1 LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.

FREYTAG & ASSOCIATES INC.
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226 N. MIAMI AVE.
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NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY
2324 CAMPBELL ROAD SIDNEY, OH 45365

STATE OF OHIO
DANIEL J. FREYTAG
8533
REGISTERED ARCHITECT

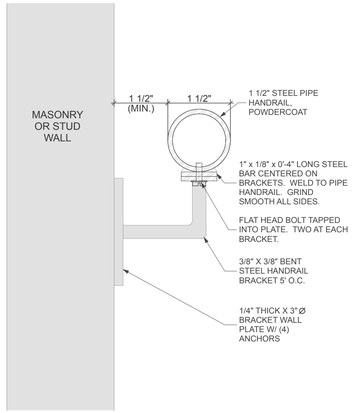
Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

REVISIONS
STORM SHELTER REVIEW
PLAN APPROVAL / BIDDING
1 ADDENDUM 2 1/10/2025
2 ADDENDUM 3 1/24/2025

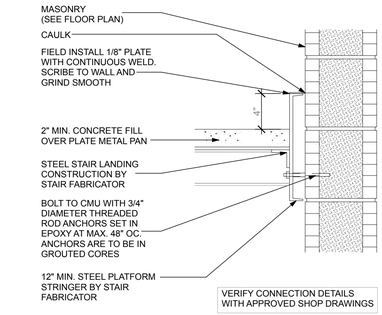
COMM. NUMBER	DATE
2207.02	11/22/24
DRAWN BY	CHECKED BY
AF/RS	DF

STAIR PLAN AND SECTION

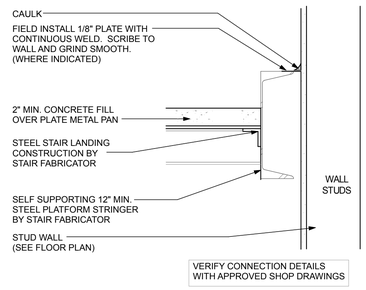
A6.7



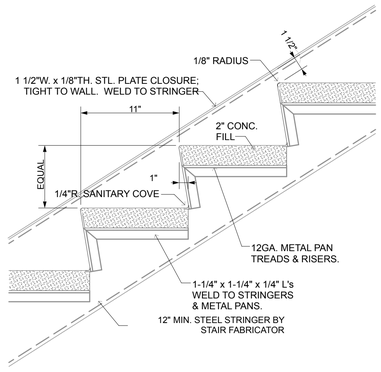
8 A6.8 HANDRAIL DETAIL
SCALE: 6" = 1'-0"



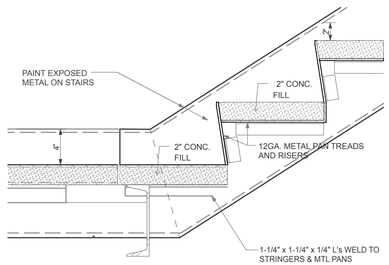
7 A6.8 CONNECTION AT MASONRY WALL
SCALE: 1 1/2"= 1'-0"



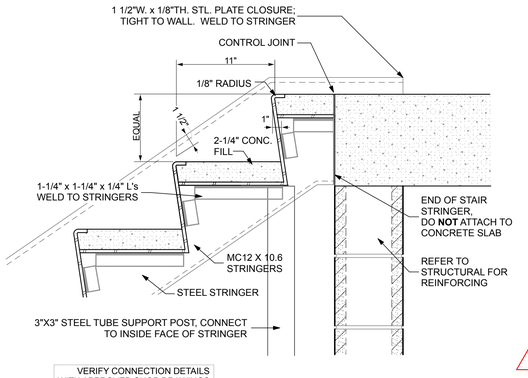
6 A6.8 CONNECTION AT STUD WALL
SCALE: 1 1/2"= 1'-0"



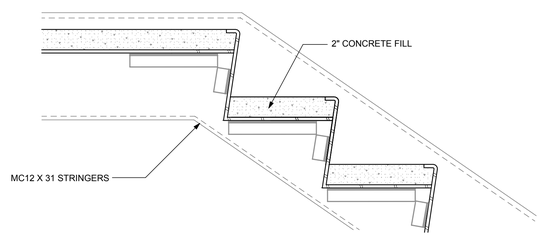
5 A6.8 TYP. STAIR DETAIL
SCALE: 1 1/2"= 1'-0"



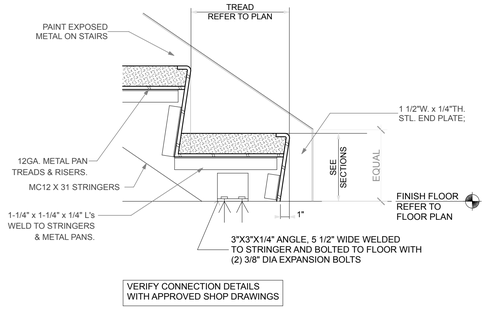
4 A6.8 LANDING DETAIL
SCALE: 1 1/2"= 1'-0"



3 A6.8 TOP OF STAIR
SCALE: 1 1/2"= 1'-0"



2 A6.8 LANDING DETAIL
SCALE: 1 1/2"= 1'-0"



1 A6.8 BOTTOM OF STAIR
SCALE: 1 1/2"= 1'-0"

SECTION NOTES

SECTION NOTES ARE STD. FOR ALL SECTIONS. ALL NOTES MAY NOT BE REFERENCED ON THIS SHEET.

1.1 AIR SPACE
1.2 GRADE, REFER TO SITE PLAN

2.1 4" COMPACTED GRAVEL BASE (TYPICAL).
2.2 COMPACTED GRAVEL BACKFILL

3.1 1/4" EXPANSION FILLER
3.2 2" EXTRUDED POLYSTYRENE BOARD INSULATION (R 10 MIN.)
3.3 CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS.
3.4 FOUNDATION WALL AND FOOTING. REFER TO STRUCTURAL DETAILS FOR SIZE, BOTTOM OF FOOTING DEPTH AND REINFORCING.
3.5 THICKENED SLAB FOUNDATION. REFER TO STRUCTURAL DRAWINGS.
3.6 VAPOR BARRIER (TYPICAL). REFER TO PROJECT MANUAL.
3.7 4" CONCRETE SLAB AND METAL DECK, REFER TO STRUCTURAL DRAWINGS AND PROJECT MANUAL.
3.8 PRECAST HOLLOW CORE PLANKS WITH CONCRETE TOPPING, REFER TO STRUCTURAL DRAWINGS.
3.9 INSULATED CONCRETE FLOOR SLAB, REFER TO STRUCTURAL DRAWINGS.
3.10 SEALANT @ PERIMETER OF SLAB/FOUNDATION
3.11 REINFORCED CONCETE SLAB, REFER TO SITE PLAN FOR DETAIL.
3.12 EXTERIOR CONCRETE STOOP. REFER TO SITE DRAWINGS
3.13 PRECAST HOLLOW CORE CONCRETE SLAB UNITS. REFER TO STRUCTURAL DRAWINGS.
3.14 'TURN-DOWN' SLAB, REFER TO STRUCTURAL DRAWINGS.
3.15 CONCRETE FROST STOOP. REFER TO STRUCTURAL DRAWINGS.
3.16 EXTERIOR CONCRETE SLAB, REFER TO SITE DRAWINGS.
3.17 CMU FOUNDATION, REFER TO STRUCTURAL

4.1 CONCRETE MASONRY UNIT (CMU)
4.2 SOLID CONCRETE MASONRY UNIT (CMU).
4.3 FACE BRICK.
4.4 FACE BRICK SOLIDER COURSE (2 COURSES) W/ HORIZONTAL JOINT REINFORCING WALL TIE AT TOP AND BOTTOM COURSE
4.5 CAST STONE. REFER TO DETAILS ON A6.5.
4.6 WEEP VENT @ 32" O.C.
4.7 CMU BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
4.7.1 CONT. 16" DP. BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
4.8 HORIZONTAL JOINT REINFORCEMENT WALL TIE @ 16 O.C. VERTICAL (MAX)
4.9 ANCHOR BOLTS. REFER TO STRUCTURAL DRAWINGS.
4.10 CMU GROUTED SOLID. REFER TO STRUCTURAL DRAWINGS
4.11 CONCRETE BRICK.
4.12 CAVITY MORTAR PROTECTION
4.13 CUT CMU BLOCK AS REQUIRED.
4.14 METAL THRU WALL FLASHING.
4.15 HORIZONTAL JOINT REINFORCEMENT
4.16 FILL CORES OF CMU WITH GROUT PROVIDE REINFORCING DOWELS, 16"O.C. REFER TO STRUCTURAL FOR REINFORCING
4.17 STAINLESS STEEL DRIP EDGE
4.18 GROUT VOID FULL
4.19 AIRSPACE
4.20 BEARING PLATE. REFER TO STRUCTURAL DRAWINGS.
4.21 VERTICAL REINFORCING. REFER TO STRUCTURAL DRAWINGS
4.22 MEMBRANE THRU WALL FLASHING
4.23 FLASHING/ COUNTER FLASHING
4.24 WEEP VENT. ONE PER SIDE OF COLUMN
4.25 12X16 CAST STONE MEMORIAL PLAQUE W/ INSCRIPTION
4.26 CAST STONE MEDALLION. REFER TO DETAIL 3/A6.5

5.1 BEAM. REFER TO STRUCTURAL DRAWINGS.
5.2 BEAM AND PLATE. REFER TO STRUCTURAL DRAWINGS.
5.3 COLUMN. REFER TO STRUCTURAL DRAWINGS.
5.4 STEEL LINTEL. REFER TO STRUCTURAL DRAWINGS.
5.5 STEEL ANGLE. REFER TO STRUCTURAL DRAWINGS.
5.6 STAIR STRINGER / STRUCTURAL SUPPORT. REFER TO SPECIFICATION AND COORDINATE WITH APPROVED SUBMITTALS.
5.7 METAL HANDRAIL, REFER TO SPECIFICATIONS AND DETAIL 8/A6.8.
5.8 STEEL ROOF DECK, 3" REFER TO STRUCTURAL DRAWINGS.
5.9 METAL PAN STAIR/LANDING, REFER TO STAIR DETAILS.
5.11 STEEL LADDER. REFER TO SPECIFICATIONS. COORDINATE LOCATION AND CLEARANCES WITH ELEVATOR EQUIPMENT.
5.10 METAL GUARD RAIL, REFER TO DETAIL 5/A6.7.
5.12 ROOF TRUSS. REFER TO STRUCTURAL DRAWINGS.
5.13 STEEL MC CHANNEL. REFER TO STRUCTURAL DRAWINGS.
5.14 INSIDE GALVANIZED METAL CLOSURES FOR ROOF DECKING.
5.15 METAL PAN STAIR / LANDING, REFER TO STAIR DETAILS.

6.1 FRTW ROOF TRUSSES. REFER TO STRUCTURAL DRAWINGS.
6.2 FRTW 2X10 FASCIA.
6.3 FRTW 2X BLOCKING
6.4 FRTW PLATE. REFER TO STRUCTURAL
6.5 FRTW 2X6 SOFFIT FRAMING. REFER TO STRUCTURAL DRAWINGS.
6.6 5/8" FRT PLYWOOD ROOF SHEATHING. REFER TO PROJECT MANUAL.
6.7 FRT EXTERIOR GRADE PLYWOOD SHEATHING. REFER TO PROJECT MANUAL
6.8 2X6 LADDER FRAMING (OUTRIGGER) REFER TO STRUCTURAL DRAWINGS.
6.9 CONTINUOUS FRTW 2X12 BEAM, STAGGER JOINTS ABOVE COLUMN.
6.10 WOOD POST. REFER TO STRUCTURAL DRAWINGS
6.11 P.T WOOD NAILER
6.12 FRTW OVER FRAMING @ 16" O.C. (U.N.O) REFER TO STRUCTURAL DRAWINGS.
6.13 FRTW 2X8 ROOF RAFTER. SECURE TO TRUSS
6.14 FRTW 2X8 @ 16" O.C W/ 5/8" PLYWOOD T&B. REFER TO STRUCTURAL DRAWINGS

7.1 BOARD STOCK AIR BARRIER / WALL INSULATION, 1 1/2" @ CFMF WALLS, 2.5" @ MASONRY WALLS. REFER TO PROJECT MANUAL
7.2 CLOSED CELL POLYURETHANE INSULATION (SPFI) (R 16.25 MIN)
7.3 METAL PANEL SIDING. REFER TO PROJECT MANUAL
7.4 EXPANSION JOINT
7.5 7" METAL GUTTER. STYLE D. REFER TO ROOF PLAN FOR DOWNSPOUT LOCATIONS AND DETAILS
7.6 POLYISO BD. ROOF INSULATION. CONSISTING OF (2) 2.6" THICK LAYERS W/ STAGGERED JOINTS. (R30)
7.7 CLOSED CELL INSULATION (R38) SPRAYED DIRECTLY TO ROOF DECK.
7.8 SEALANT W/ BACKER ROD
7.9 SEALANT, REFER TO PROJECT MANUAL
7.10 METAL SOFFIT PANEL SYSTEM. REFER TO PROJECT MANUAL.
7.11 SELF ADHERING ROOF UNDERLAYMENT. REFER TO PROJECT MANUAL
7.12 VAPOR RETARDER. REFER TO PROJECT MANUAL
7.13 SIDING ATTACHMENT SUBFRAMING. REFER TO PROJECT MANUAL
7.14 STANDING SEAM METAL ROOF. REFER TO PROJECT MANUAL
7.15 CONTINUOUS METAL SIDING BASE FLASHING.
7.16 STEP FLASHING, SEE DETAILS
7.17 ALUMINUM WRAPPED FASCIA OVER WOOD BLOCKING
7.18 STONE ANCHOR. (2) PER STONE MINIMUM. (3) PER STONE OVER 48" LONG
7.19 ROOF ICE GUARD BY ROOF MANUF. REFER TO PROJECT MANUAL
7.20 FLASHING / COUNTERFLASHING. SEE DETAIL
7.21 METAL DRIP EDGE
7.22 FILL VOIDS WITH CLOSED-CELL SPRAY FOAM INSULATION. PROVIDE IGNITION BARRIER COATING ON INTERIOR) EXPOSED SIDE
7.23 EIFS SYSTEM ON 1" INSULATION. REFER TO PROJECT MANUAL
7.24 CURVED VINYL CASING BEAD. BASIS OF DESIGN: CLARK DIETRICH CBS150-332
7.25 SELF ADHERED FLEXIBLE MEMBRANE FLASHING OVER ENTIRE WALL SURFACE LAP JOINTS 8"
7.26 1/2" GLASS-MAT GYPSUM SHEATHING

8.1 DOOR & FRAME. REFER TO DOOR SCHEDULE.
8.2 WINDOW, REFER TO FLOOR PLAN FOR TYPE.
8.3 THRESHOLD BY DOOR MANUFACTURER, REFER TO DOOR DETAILS.
8.4 ALUMINUM SUBSILL BY WINDOW MANUFACTURER. FINISH TO MATCH WINDOW.
8.5 OVERHEAD DOOR. REFER TO DOOR SCHEDULE
8.6 REFER TO ALUMINUM WINDOW ELEVATIONS AND PROJECT MANUAL.
8.7 ACCESS DOOR; BASIS OF DESIGN: NYSTROM RGB SERIES HINGED 24"X36" ACCESS DOOR.

9.1 CFMF @16" O.C.
9.2 CFMF BRACING @ 48"O.C.
9.3 5/8" ABUSE RESISTANT GYPSUM BOARD, FULL HEIGHT
9.4 CONTINUOUS 3 5/8" CFMF
9.5 WINDOW TRIM AND SILL. REFER TO WINDOW DETAILS.
9.6 5/8"GYPSUM BOARD
9.7 5/8" GYPSUM BOARD AT BOTTOM OF TRUSS (TYPICAL).
9.8 SUSPENDED ACOUSTICAL CEILING PANELS AND GRID.
9.9 METAL 'J' MOLD
9.10 WALL BASE, SEE FINISH SCHEDULE.
9.11 6" CFMF BOX BEAM. REFER TO STRUCTURAL DRAWINGS
9.12 SUSPENDED GYPSUM CEILING

10.1 LOUVER
10.2 GRILLE, REFER TO MECHANICAL DRAWINGS.

12.1 CASEWORK, REFER TO EQUIPMENT DRAWINGS
12.2 WINDOW SHADES, REFER TO PROJECT MANUAL.

23.1 HVAC EQUIPMENT AND DUCTS, SEE HVAC DRAWINGS
23.2 MECHANICAL LOUVER. REFER TO MECHANICAL DRAWINGS.

26.1 LIGHT FIXTURE, SEE ELECTIRCAL DRAWINGS.

FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS
(937) 492-6983
www.freytagarc.com
info@freytagarc.com
226 N. MIAMI AVE.
P.O. BOX 220
SIDNEY, OHIO 45365

NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY
SIDNEY, OH 45365
2324 CAMPBELL ROAD

STATE OF OHIO
DANIEL J. FREYTAG 8533
REGISTERED ARCHITECT

Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

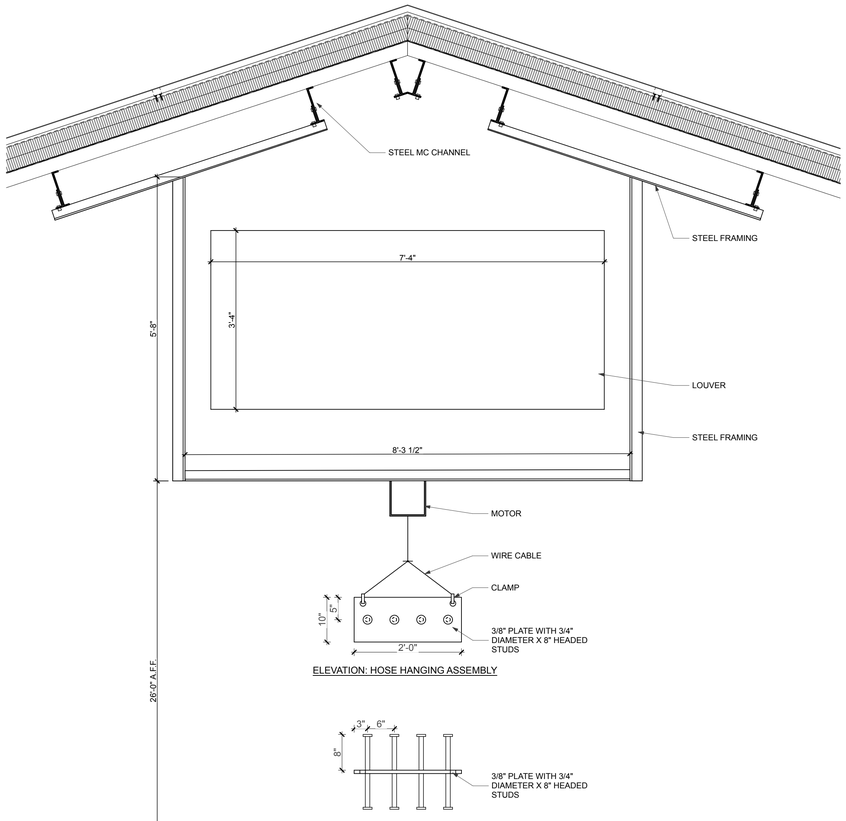
REVISIONS
STORM SHELTER REVIEW
PLAN APPROVAL / BIDDING
1 ADDENDUM 2 1/10/2025
2 ADDENDUM 3 1/24/2025

COMM. NUMBER	DATE
2207.02	11/22/24
DRAWN BY	CHECKED BY
AF/RS	DF

STAIR AND MEZZANINE DETAILS

A6.8

PLOT DATE: 1/23/25 @ 3:12 PM LAYOUT: A6.A8.8-WALL SECTIONS AND DETAILS STAIR AND MEZZANINE DETAILS FILENAME: 231103 Fire Station CD FILE PATH: BIMcloud: freytagnc - BIMcloud Software as a Service/231103 Fire Station CD

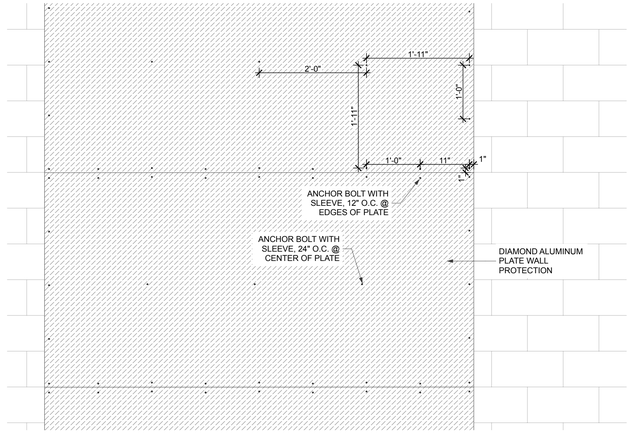


ELEVATION: HOSE HANGING ASSEMBLY

PLAN: HOSE HANGING ASSEMBLY

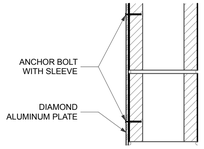
1 A6.9 HOSE HOIST DETAIL

SCALE: 3/4" = 1'-0"



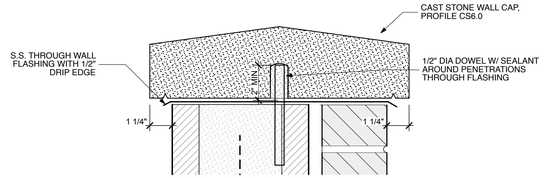
2 A6.9 DIAMOND ALUMNIMUN PLATE WALL CONNECTION

SCALE: 3/4" = 1'-0"



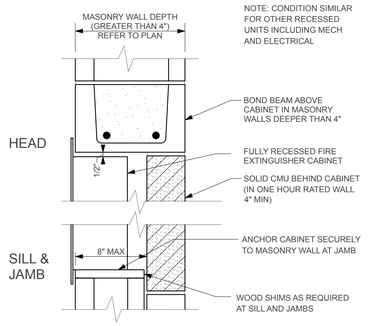
3 A6.9 DIAMOND PLATE DETAIL

SCALE: 1 1/2"= 1'-0"

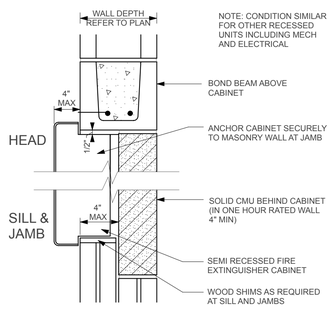


4 A6.9 WALL CAP DETAIL

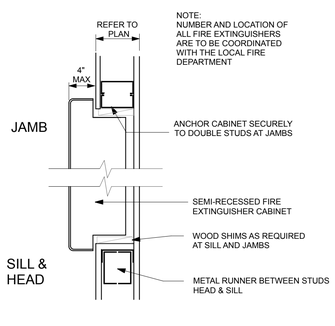
SCALE: 3" = 1'-0"



RECESSED
FEC IN MASONRY WALLS



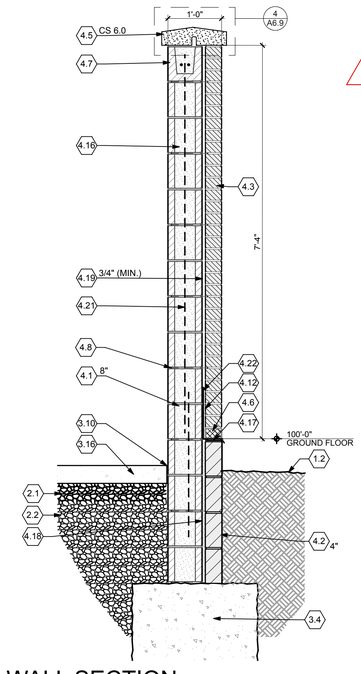
SEMI-RECESSED
FEC IN MASONRY WALL



SEMI - RECESSED FEC
IN METAL STUD WALL

6 A6.9 FIRE EXTINGUISHER CABINET DETAILS

SCALE: 1 1/2"= 1'-0"



5 A6.9 WALL SECTION

SCALE: 3/4" = 1'-0"

SECTION NOTES

SECTION NOTES ARE STD. FOR ALL SECTIONS. ALL NOTES MAY NOT BE REFERENCED ON THIS SHEET.

1.1 AIR SPACE
1.2 GRADE, REFER TO SITE PLAN

2.1 4" COMPACTED GRAVEL BASE (TYPICAL).
2.2 COMPACTED GRAVEL BACKFILL

3.1 1/4" EXPANSION FILLER
3.2 2" EXTRUDED POLYSTYRENE BOARD INSULATION (R 10 MIN.)
3.3 CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS.
3.4 FOUNDATION WALL AND FOOTING. REFER TO STRUCTURAL DETAILS FOR SIZE, BOTTOM OF FOOTING DEPTH AND REINFORCING.
3.5 THICKENED SLAB FOUNDATION. REFER TO STRUCTURAL DRAWINGS.
3.6 VAPOR BARRIER (TYPICAL). REFER TO PROJECT MANUAL.
3.7 4" CONCRETE SLAB AND METAL DECK, REFER TO STRUCTURAL DRAWINGS AND PROJECT MANUAL.
3.8 PRECAST HOLLOW CORE PLANKS WITH CONCRETE TOPPING, REFER TO STRUCTURAL DRAWINGS.
3.9 INSULATED CONCRETE FLOOR SLAB, REFER TO STRUCTURAL DRAWINGS.
3.10 SEALANT @ PERIMETER OF SLAB/FOUNDATION
3.11 REINFORCED CONCETE SLAB, REFER TO SITE PLAN FOR DETAIL.
3.12 EXTERIOR CONCRETE STOOP. REFER TO SITE DRAWINGS
3.13 PRECAST HOLLOW CORE CONCRETE SLAB UNITS. REFER TO STRUCTURAL DRAWINGS.
3.14 'TURN-DOWN' SLAB, REFER TO STRUCTURAL DRAWINGS.
3.15 CONCRETE FROST STOOP. REFER TO STRUCTURAL DRAWINGS.
3.16 EXTERIOR CONCRETE SLAB, REFER TO SITE DRAWINGS.
3.17 CMU FOUNDATION, REFER TO STRUCTURAL

4.1 CONCRETE MASONRY UNIT (CMU)
4.2 SOLID CONCRETE MASONRY UNIT (CMU).
4.3 FACE BRICK.
4.4 FACE BRICK SOLIDER COURSE (2 COURSES) W/ HORIZONTAL JOINT REINFORCING WALL TIE AT TOP AND BOTTOM COURSE.
4.5 CAST STONE. REFER TO DETAILS ON A6.5.
4.6 WEEP VENT @ 32" O.C.
4.7 CMU BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
4.7.1 CONT. 16" DP. BOND BEAM. REFER TO STRUCTURAL DRAWINGS.
4.8 HORIZONTAL JOINT REINFORCEMENT WALL TIE @ 16 O.C. VERTICAL (MAX)
4.9 ANCHOR BOLTS. REFER TO STRUCTURAL DRAWINGS.
4.10 CMU GROUTED SOLID. REFER TO STRUCTURAL DRAWINGS
4.11 CONCRETE BRICK.
4.12 CAVITY MORTAR PROTECTION
4.13 CUT CMU BLOCK AS REQUIRED.
4.14 METAL THRU WALL FLASHING.
4.15 HORIZONTAL JOINT REINFORCEMENT
4.16 FILL CORES OF CMU WITH GROUT PROVIDE REINFORCING DOWELS, 16"O.C. REFER TO STRUCTURAL FOR REINFORCING
4.17 STAINLESS STEEL DRIP EDGE
4.18 GROUT VOID FULL
4.19 AIRSPACE
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4.21 VERTICAL REINFORCING. REFER TO STRUCTURAL DRAWINGS
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4.26 CAST STONE MEDALLION. REFER TO DETAIL 3/A6.5

5.1 BEAM. REFER TO STRUCTURAL DRAWINGS.
5.2 BEAM AND PLATE. REFER TO STRUCTURAL DRAWINGS.
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5.4 STEEL LINTEL. REFER TO STRUCTURAL DRAWINGS.
5.5 STEEL ANGLE. REFER TO STRUCTURAL DRAWINGS.
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5.10 METAL GUARD RAIL, REFER TO DETAIL 5/A6.7.
5.12 ROOF TRUSS. REFER TO STRUCTURAL DRAWINGS.
5.13 STEEL MC CHANNEL. REFER TO STRUCTURAL DRAWINGS.
5.14 INSIDE GALVANIZED METAL CLOSURES FOR ROOF DECKING.
5.15 METAL PAN STAIR / LANDING, REFER TO STAIR DETAILS.

6.1 FRTW ROOF TRUSSES. REFER TO STRUCTURAL DRAWINGS.
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6.3 FRTW 2X BLOCKING
6.4 FRTW PLATE. REFER TO STRUCTURAL
6.5 FRTW 2X6 SOFFIT FRAMING. REFER TO STRUCTURAL DRAWINGS.
6.6 5/8" FRT PLYWOOD ROOF SHEATHING. REFER TO PROJECT MANUAL.
6.7 FRT EXTERIOR GRADE PLYWOOD SHEATHING. REFER TO PROJECT MANUAL
6.8 2X6 LADDER FRAMING (OUTRIGGER) REFER TO STRUCTURAL DRAWINGS.
6.9 CONTINUOUS FRTW 2X12 BEAM, STAGGER JOINTS ABOVE COLUMN.
6.10 WOOD POST. REFER TO STRUCTURAL DRAWINGS
6.11 P.T WOOD NAILER
6.12 FRTW OVER FRAMING @ 16" O.C. (U.N.O) REFER TO STRUCTURAL DRAWINGS.
6.13 FRTW 2X8 ROOF RAFTER. SECURE TO TRUSS
6.14 FRTW 2X8 @ 16" O.C W/ 5/8" PLYWOOD T&B. REFER TO STRUCTURAL DRAWINGS

7.1 BOARD STOCK AIR BARRIER / WALL INSULATION. 1 1/2" @ CFMF WALLS, 2.5" @ MASONRY WALLS. REFER TO PROJECT MANUAL
7.2 CLOSED CELL POLYURETHANE INSULATION (SPF) (R 16.25 MIN)
7.3 METAL PANEL SIDING. REFER TO PROJECT MANUAL
7.4 EXPANSION JOINT
7.5 7" METAL GUTTER. STYLE D. REFER TO ROOF PLAN FOR DOWNSPOUT LOCATIONS AND DETAILS
7.6 POLYISO BD. ROOF INSULATION. CONSISTING OF (2) 2.6" THICK LAYERS W/ STAGGERED JOINTS. (R30)
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7.8 SEALANT W/ BACKER ROD
7.9 SEALANT, REFER TO PROJECT MANUAL
7.10 METAL SOFFIT PANEL SYSTEM. REFER TO PROJECT MANUAL.
7.11 SELF ADHERING ROOF UNDERLAYMENT. REFER TO PROJECT MANUAL
7.12 VAPOR RETARDER. REFER TO PROJECT MANUAL
7.13 SIDING ATTACHMENT SUBFRAMING. REFER TO PROJECT MANUAL
7.14 STANDING SEAM METAL ROOF. REFER TO PROJECT MANUAL
7.15 CONTINUOUS METAL SIDING BASE FLASHING.
7.16 STEP FLASHING. SEE DETAILS
7.17 ALUMINUM WRAPPED FASCIA OVER WOOD BLOCKING
7.18 STONE ANCHOR. (2) PER STONE MINIMUM. (3) PER STONE OVER 48" LONG
7.19 ROOF ICE GUARD BY ROOF MANUF. REFER TO PROJECT MANUAL
7.20 FLASHING / COUNTERFLASHING. SEE DETAIL
7.21 METAL DRIP EDGE
7.22 FILL VOIDS WITH CLOSED-CELL SPRAY FOAM INSULATION. PROVIDE IGNITION BARRIER COATING ON (INTERIOR) EXPOSED SIDE
7.23 EIFS SYSTEM ON 1" INSULATION. REFER TO PROJECT MANUAL
7.24 CURVED VINYL CASING BEAD. BASIS OF DESIGN: CLARK DIETRICH CBS150-332
7.25 SELF ADHERED FLEXIBLE MEMBRANE FLASHING OVER ENTIRE WALL SURFACE LAP JOINTS MIN. 6"
7.26 1/2" GLASS-MAT GYPSUM SHEATHING

8.1 DOOR & FRAME. REFER TO DOOR SCHEDULE.
8.2 WINDOW. REFER TO FLOOR PLAN FOR TYPE.
8.3 THRESHOLD BY DOOR MANUFACTURER. REFER TO DOOR DETAILS.
8.4 ALUMINUM SUBSILL BY WINDOW MANUFACTURER. FINISH TO MATCH WINDOW.
8.5 OVERHEAD DOOR. REFER TO DOOR SCHEDULE
8.6 REFER TO ALUMINUM WINDOW ELEVATIONS AND PROJECT MANUAL.
8.7 ACCESS DOOR; BASIS OF DESIGN: NYSTROM RGB SERIES HINGED 24"X36" ACCESS DOOR.

9.1 CFMF @16" O.C.
9.2 CFMF BRACING @ 48"O.C.
9.3 5/8" ABUSE RESISTANT GYPSUM BOARD, FULL HEIGHT
9.4 CONTINUOUS 3 5/8" CFMF
9.5 WINDOW TRIM AND SILL. REFER TO WINDOW DETAILS.
9.6 5/8"GYPSUM BOARD
9.7 5/8" GYPSUM BOARD AT BOTTOM OF TRUSS (TYPICAL).
9.8 SUSPENDED ACOUSTICAL CEILING PANELS AND GRID.
9.9 METAL 'J' MOLD
9.10 WALL BASE, SEE FINISH SCHEDULE.
9.11 6" CFMF. BOX BEAM. REFER TO STRUCTURAL DRAWINGS
9.12 SUSPENDED GYPSUM CEILING

10.1 LOUVER
10.2 GRILLE, REFER TO MECHANICAL DRAWINGS.

12.1 CASEWORK, REFER TO EQUIPMENT DRAWINGS
12.2 WINDOW SHADES, REFER TO PROJECT MANUAL.

23.1 HVAC EQUIPMENT AND DUCTS, SEE HVAC DRAWINGS
23.2 MECHANICAL LOUVER. REFER TO MECHANICAL DRAWINGS.

26.1 LIGHT FIXTURE, SEE ELECTIRCAL DRAWINGS.

FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS
226 N. MIAMI AVE.
P.O. BOX 220
SIDNEY, OHIO 45365
(937) 492-6983
www.freytaginc.com
info@freytaginc.com

NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY
SIDNEY, OH 45365
2324 CAMPBELL ROAD

STATE OF OHIO
DANIEL J. FREYTAG 8533
REGISTERED ARCHITECT

Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

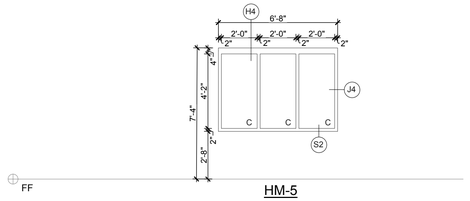
REVISIONS
STORM SHELTER REVIEW
PLAN APPROVAL / BIDDING
1 ADDENDUM 2 1/10/2025
2 ADDENDUM 3 1/24/2025

COMM. NUMBER	DATE
2207.02	11/22/24
DRAWN BY	CHECKED BY
AF/RS	DF

DETAILS

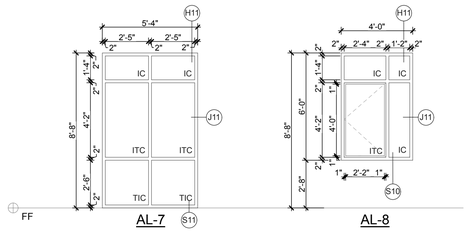
A6.9

PLOT DATE: 1/23/25 @ 3:12 PM LAYOUT: A6.A6.9-WALL SECTIONS AND DETAILS FILENAME: 231103 Fire Station CD FILE PATH: BIMcloud: freytaginc - BIMcloud Software as a Service/231103 Fire Station CD



HM-5

4 BORROWED LIGHT TYPES — HOLLOW METAL (U.N.O) — 1/4" = 1'- 0"



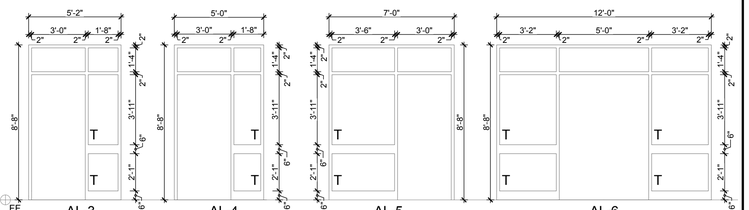
AL-7

AL-8

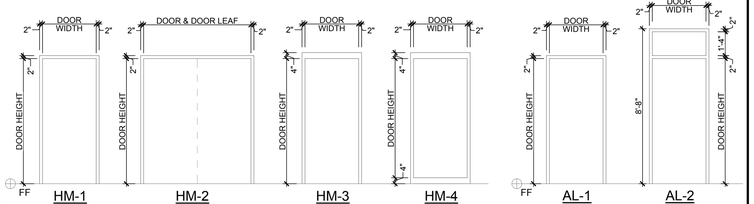
NOTES/SCHEDULE:

1 MANUALLY OPERATED ROLLER SHADE, FULL WIDTH OF OPENING. REFER TO FLOOR PLAN FOR LOCATION AND SPECIFICATIONS.

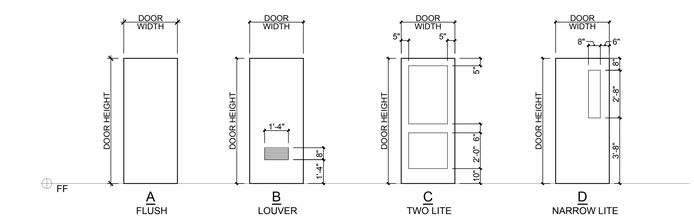
3 WINDOW TYPES — CURTAIN WALL AND ALUMINUM (U.N.O) — 1/4" = 1'- 0"



T - TEMPERED GLAZING
REFER TO DOOR SCHEDULE FOR CLEAR/FROSTED
AND IF INSULATED GLAZING IS REQUIRED



2 FRAME TYPES — HOLLOW METAL AND ALUMINUM (U.N.O) — 1/4" = 1'- 0"



1 DOOR TYPES — WOOD / HOLLOW METAL / ALUMINUM (U.N.O) — 1/4" = 1'- 0"

ROOM FINISH SCHEDULE

RM KEY	ROOM NAME	RM #	ROOM HT.	FLOOR	BASE	WALL FINISH EAST	WALL FINISH NORTH	WALL FINISH SOUTH	WALL FINISH WEST	CEILING	NOTES
100	VEST.	-	9'	FM	RB	G-P3	G-P3	G-P3	G-P3	G-P1	
101	LOBBY	-	9'	PC	RB	G-P2 / G-P5	G-P5	G-P2	G-P2	APC-1 / G-P1	1
102	LT. OFFICE	-	9'	PC	RB	G-P3	G-P3	G-P3	G-P3	APC-1	
103	REST.	-	8'	R	R	T-2 / G-P4	T-2 / G-P4	T-2 / G-P4	T-2 / G-P4	G-P1	3
104	JAN.	-	8'	PC	RB	G-P2	G-P2	G-P2	G-P2	G-P2	
105	IT	-	-	CONC	RB	M-PE2	M-PE2	M-PE2	M-PE2	EXP-P2	
106	STORAGE	-	9'	PC	RB	G-P2	G-P2	G-P2	G-P2	APC-1	
107	TOILET/SHOWER	-	8'	R	R	T-2 / G-P4	T-2 / G-P4	T-2 / G-P4	T-2 / G-P4	G-P1	2
108	LT. DORM	-	9'	CT	RB	G-P3	G-P3	G-P3	G-P3	APC-1	
109	TOILET/SHOWER	-	8'	R	R	T-2 / G-P4	T-2 / G-P4	T-2 / G-P4	T-2 / G-P4	G-P1	2
110	DORM 1	-	9'	CT	RB	G-P3	G-P3	G-P3	G-P3	APC-1	
111	DORM 2	-	9'	CT	RB	G-P3	G-P3	G-P3	G-P3	APC-1	
112	DORM 3	-	9'	CT	RB	G-P3	G-P3	G-P3	G-P3	APC-1	
113	DORM 4	-	9'	CT	RB	G-P3	G-P3	G-P3	G-P3	APC-1	
114	KITCHEN/DAYROOM	-	9' / 10'	PC / CT	RB	G-P2	G-P2 / T-1	G-P2	G-P2 / G-P5 / T-1	APC-1 / G-P4	1
115	CORRIDOR	-	8' / 9'	PC	RB	G-P2 / G-P4	G-P2	G-P2 / G-P5	G-P2	APC-1 / G-P1 / G-P4	1
116	CORRIDOR	-	9'-6"	PC	RB	G-P2	G-P2	G-P2	G-P2	APC-1	
117	REPORT ROOM	-	9'	CONC	RB	M-PE2	M-PE2	M-PE2	M-PE2	APC-1	
118	TURNOUT GEAR	-	-	CONC	RB	M-PE2	M-PE2	M-PE2	M-PE2	EXP-P3	4,7, 8
119	DECON/LAUNDRY	-	9'	CONC	RB	M-PE2	M-PE2	M-PE2	M-PE2	APC-2	4,7
120	REST.	-	9'	R	R	M-PE2	M-PE2	M-PE2	M-PE2	G-PE1	4,7
121	STAIR	-	-	CONC	RB	M-PE1	M-PE1	M-PE1	M-PE1	EXP-P3	4
122	APPARATUS BAY	-	-	CONC	RB	M-PE1	M-PE1	M-PE1	M-PE1	EXP-P3 / APC-2	4,7, 8
123	HEAVY DECON	-	-	CONC	RB	M-PE1	M-PE1	M-PE1	M-PE1	EXP-P3	4,7, 8
124	WEIGHT RM.	-	-	RT	RB	M-PE1	M-PE	M-PE	M-PE	EXP-P3	4, 6, 8
125	ELEC	-	-	CONC	RB	M-PE1	M-PE1	M-PE1	M-PE1	EXP	4
201	COMPRSR RM	-	-	CONC	RB	G-PE1	M-PE1	G-PE1	M-PE1	EXP	4
202	TRAINING	-	-	CONC	RB	M-PE1	G-PE1 / FRP	G-PE1 / FRP	M-PE1 / G-PE1 / FRP	EXP-P3	4, 5, 8
203	MECHANICAL	-	-	CONC	RB	M-PE1	G-PE1	M-PE1	M-PE1	EXP	4
204	EQUIPMENT PLATFORM	-	-	CONC	RB	-	G-PE1	-	M-PE1	EXP-P3	4, 8

ROOM FINISH SCHEDULE ABBREVIATIONS

REFER TO SPECIFICATIONS

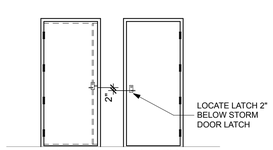
SYM	DESCRIPTION	SPEC.
FLOORS:		
CT	CARPET TILE	096813
CONC	SEALED CONCRETE	033000
PC	POLISHED CONCRETE	033000
FM	ENTRANCE FLOOR MATS	124813
RT	ATHLETIC RUBBER TILE	096519
R	RESINOUS FLOORING	096723
BASE:		
T	TILE	093000
RB	RESILIENT BASE	096513
R	RESINOUS FLOORING	096723
WALLS:		
T	WALL TILE	093000
G-P	PAINTED GYPSUM BOARD	099123
M-PE	PAINTED MASONRY, EPOXY	099123
FRP	FIBERGLASS REINF. PANELS	097720
CEILINGS:		
APC-1	ACOUSTIC PANEL CEILING	095113
APC-2	ACOUSTIC PANEL CEILING	095113
G-P	PAINTED GYPSUM BOARD, ENAMEL	099123
G-PE	PAINTED GYPSUM BOARD, EPOXY	099123
EXP-P	PAINTED EXPOSED STRUCTURE	099123
PAINT COLORS		
1	SHERWIN WILLIAMS EXTRA WHITE SW 7006	
2	SHERWIN WILLIAMS REFLECTION SW 7661	
3	SHERWIN WILLIAMS STEELY GRAY SW 7664	
4	SHERWIN WILLIAMS SLATE TILE SW 7624	
5	SHERWIN WILLIAMS RED BAY SW 6321	

ROOM FINISH SCHEDULE NOTES:

SYM	DESCRIPTION
1.	PAINT NOTED WALL AN ACCENT PAINT COLOR. REFER TO 1/A8.1 FOR ACCENT WALLS LOCATIONS.
2.	WALL TILE TO BE INSTALLED TO 5'-0" A.F.F. (TYPICAL FOR ALL WALLS), PAINT REMAINING WALL ABOVE TO CEILING. WALL TILE TO BE INSTALLED FULL WALL HEIGHT BEHIND LAVATORY.
3.	WALL TILE TO BE INSTALLED TO 5'-0" A.F.F. (TYPICAL FOR ALL WALLS), PAINT REMAINING WALL ABOVE TO CEILING. WALL
4.	EXPOSED STRUCTURE TO BE PAINTED WHITE.
5.	FRP OVER GYP. BD. HEIGHT TO EXTEND TO THE TOP OF DOOR FRAME.
6.	MIRRORS INSTALLED TO 7'-4" A.F.F. ON EAST AND WEST WALLS, REFER TO 1/A8.1 FOR LOCATION AND LENGTH.
7.	**ADD ALTERNATE: RESINOUS FLOOR FINISH AND BASE**
8.	ALL EXPOSED DUCTWORK TO BE PAINTED PAINT COLOR 5.

GENERAL NOTES:

SYM	DESCRIPTION
A	WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHOULD DO SO UNDER THE CENTERLINE OF THE DOOR, U.N.O.
B	ALL INTERIOR MASONRY UNITS ARE FINISH MATERIALS AND SHALL BE KEPT CLEAN DURING CONSTRUCTION FROM DUST, MUD, DIRT AND CONCRETE CORE DRILLING SLURRY. MASK OR SCREEN AS NECESSARY TO MAINTAIN CLEANLINESS.
C	MATERIALS ARE CONSIDERED EXPOSED IF CEILING DOES NOT FULLY EXTEND OR ATTACH TO WALLS.



5 A7.1 LATCH DETAIL
SCALE: 1/4" = 1'-0"

DOOR AND FRAME SCHEDULE

RM	TAG	DOOR	W	HT	MATL	TYPE	GLZ	FRAME MATL	FRAME EL	FRAME GLZ	FRAME DEPTH	HEAD	JAMB	SILL	Fire Rating	Hard. Set	Remarks
100	A	PR	2'-6"	7'-0"	AL	C	ITC	AL	AL-6	ITC/IC	6"	H12	J12	S12/S14	-	1	
100	B		3'-0"	7'-0"	AL	C	TC	AL	AL-5	TC/C	6"	H8	J8		-	2	7
102	A		3'-0"	7'-0"	AL	C	TC	AL	AL-3	TC/C	6"	H2	J2		-	10	3, 7
103	A		3'-0"	7'-0"	WD	A	-	HM	HM-1	-	6 1/8"	H1	J1		-	22	
104	A		3'-0"	7'-0"	WD	A	-	HM	HM-1	-	6 1/8"	H1	J1		-	27	
105	A		3'-0"	7'-0"	HM	B	-	HM	HM-3	-	5 3/4"	H5	J5		-	28	
106	A		3'-0"	7'-0"	WD	A	-	HM	HM-1	-	6 1/8"	H1	J1		-	25	
107	A		3'-0"	7'-0"	WD	A	-	HM	HM-1	-	6 1/8"	H1	J1		-	20	
108	A		3'-0"	7'-0"	WD	A	-	HM	HM-1	-	6 1/8"	H1	J1		-	19	2
108	B		3'-0"	7'-0"	WD	A	-	HM	HM-1	-	6 1/8"	H1	J1		20 MIN	7	1
109	A		3'-0"	7'-0"	WD	A	-	HM	HM-1	-	6 1/8"	H1	J1		20 MIN	20	1
110	A		3'-0"	7'-0"	WD	A	-	HM	HM-1	-	6 1/8"	H1	J1		-	19	2
111	A		3'-0"	7'-0"	WD	A	-	HM	HM-1	-	6 1/8"	H1	J1		-	19	2
112	A		3'-0"	7'-0"	WD	A	-	HM	HM-1	-	6 1/8"	H1	J1		-	19	2
113	A		3'-0"	7'-0"	WD	A	-	HM	HM-1	-	6 1/8"	H1	J1		-	19	2
114	A		3'-0"	7'-0"	AL	C	ITC	AL	AL-3	ITC/IC	6"	H10	J10/J11	S12/S14	-	3	3, 7
115	A		3'-0"	7'-0"	WD	D	TC	HM	HM-1	-	6 1/8"	H1	J1		-	23	7
115	B		3'-0"	7'-0"	WD	D	FR	HM	HM-1	-	6 1/8"	H1	J1		20 MIN	18	1
116	A		3'-0"	7'-0"	AL	C	ITF	AL	AL-2	IF	6"	H11	J10/J11	S12/S14	-	5	3, 7
116	B		1'-10"	6'-8"	WD	A	-	HM	HM-4	-	6 1/8"	H1	J1	S15	-	26	2
116	C		1'-10"	6'-8"	WD	A	-	HM	HM-4	-	6 1/8"	H1	J1	S15	-	26	2
116	D		1'-10"	6'-8"	WD	A	-	HM	HM-4	-	6 1/8"	H1	J1	S15	-	26	2
116	E		1'-10"	6'-8"	WD	A	-	HM	HM-4	-	6 1/8"	H1	J1	S15	-	26	2
116	F		1'-10"	6'-8"	WD	A	-	HM	HM-4	-	6 1/8"	H1	J1	S15	-	26	2
116	G		1'-10"	6'-8"	WD	A	-	HM	HM-4	-	6 1/8"	H1	J1	S15	-	26	2
116	H		1'-10"	6'-8"	WD	A	-	HM	HM-4	-	6 1/8"	H1	J1	S15	-	26	2
116	I		1'-10"	6'-8"	WD	A	-	HM	HM-4	-	6 1/8"	H1	J1	S15	-	26	2
116	J		1'-10"	6'-8"	WD	A	-	HM	HM-4	-	6 1/8"	H1	J1	S15	-	26	2
116	K		1'-10"	6'-8"	WD	A	-	HM	HM-4	-	6 1/8"	H1	J1	S15	-	26	2
116	L		1'-10"	6'-8"	WD	A	-	HM	HM-4	-	6 1/8"	H1	J1	S15	-	26	2
116	M		1'-10"	6'-8"	WD	A	-	HM	HM-4	-	6 1/8"	H1	J1	S15	-	26	2
116	N		1'-10"	6'-8"	WD	A	-	HM	HM-4	-	6 1/8"	H1	J1	S15	-	26	2
116	O		1'-10"	6'-8"	WD	A	-	HM	HM-4	-	6 1/8"	H1	J1	S15	-	26	2
116	P		1'-10"	6'-8"	WD	A	-	HM	HM-4	-	6 1/8"	H1	J1	S15	-	26	2
117	A		3'-0"	6'-8"	AL	C	TC	AL	AL-3	TC/C	6"	H6	J6		-	9	3, 7
117	B		3'-0"	7'-0"	HM	C	TC	HM	HM-3	-	5 3/4"	H7	J7		-	24	7
118	A		3'-0"	7'-0"	HM	C	TC	HM	HM-3	-	5 3/4"	H7	J7		-	14	
119	A		3'-0"	7'-0"	WD	A	-	HM	HM-3	-	8 3/4"	H5A	J5A	S5A	-	23A	5, 6, 8
119	B		3'-0"	7'-0"	HM	A	-	HM	HM-3	-	8 3/4"	H5A	J5A	S5A	90 MIN	15	1, 4, 5, 6, 9
119	C		3'-0"	7'-0"	HM	A	-	HM	HM-3	-	8 3/4"	H7A	J7A	S5A	90 MIN	15	1, 4, 5, 6, 9
119	D		3'-0"	7'-0"	HM	A	-	HM	HM-3	-	8 3/4"	H7A	J7A	S5A	-	16A	6, 7, 8
120	A		3'-0"	7'-0"	HM	A	-	HM	HM-3	-	5 3/4"	H7	J7		-	21	
122	A		3'-0"	7'-0"	HM	D	TC	HM	HM-3	-	5 3/4"	H5	J5		-	13	7
122	B		3'-0"	7'-0"	HM	D	TC	HM	HM-3	-	5 3/4"	H5	J5		-	13	7
122	C	OHD	14'-0"	16'-0"	-		-	-		-	-	H9	J9	S9	-		
122	D	OHD	14'-0"	16'-0"	-		-	-		-	-	H9	J9	S9	-		
122	E	OHD	14'-0"	16'-0"	-		-	-		-	-	H9	J9	S9	-		
122	F		3'-0"	7'-0"	FRP	A	-	AL	AL-1	-	6"	H14	J14		-	6	
122	G	OHD	14'-0"	16'-0"	-		-	-		-	-	H9	J9	S9	-		
122	H	OHD	14'-0"	16'-0"	-		-	-		-	-	H9	J9	S9	-		
122	I	OHD	14'-0"	16'-0"	-		-	-		-	-	H9	J9	S9	-		
122	J	OHD	14'-0"	16'-0"	-		-	-		-	-	H9	J9	S9	-		
123	A		3'-0"	7'-0"	HM	D	TC	HM	HM-3	-	5 3/4"	H7	J7		-	16	
124	A		3'-0"	7'-0"	HM	C	TC	HM	HM-3	-	5 3/4"	H7	J7		-	8	
124	B		3'-0"	7'-0"	FRP	A	-	AL	AL-1	-	6"	H14	J14		-	5	7
124	C	OHD	14'-0"	16'-0"	-		-	-		-	-	H9	J9	S9	-		
125	A		3'-0"	7'-0"	FRP	A	-	AL	AL-2	-	6"	H13	J13/J14	S14	-	4	
202	A	PR	3'-0"	7'-0"	HM	A	-	HM	HM-2	-	4 7/8"	H3	J3		-	12	
202	B		2'-8"	7'-0"	HM	A	-	HM	HM-3	-	5 3/4"	H7	J7		-	13	
203	A	PR	3'-0"	7'-0"	HM	A	-	HM	HM-2	-	4 7/8"	H3	J3		-	11	

ABBREVIATIONS

PR PAIR OF DOORS
OHD OVERHEAD DOOR

MATERIALS

AL ALUMINUM
HM HOLLOW METAL
WD WOOD
FRP FIBER REINFORCED POLYMER

GLAZING

FR FIRE-PROTECTION-RATED GLAZING OF 20 MINUTES
ITC INSULATED TEMPERED CLEAR
TC TEMPERED CLEAR
ITF INSULATED TEMPERED FROSTED
IC INSULATED CLEAR
C CLEAR
IF INSULATED FROSTED

DOOR SCHEDULE NOTES:

1. PROVIDE SMOKE SEAL IN DOOR OPENINGS OF ALL CONSTRUCTION RESISTING THE PASSAGE OF SMOKE AND FIRE RATED WALLS.
2. PROVIDE SOUND SEALS AT HEAD / JAMB.
3. PROVIDE MANUAL OPERATED WINDOW ROLLER SHADES - FULL WIDTH OF OPENING. REFER TO SPECIFICATIONS.
4. STORM SHELTER DOOR, DOOR AND FRAME SYSTEM TO MEET ICC 500-2014 REQUIREMENTS FOR TORNADO SHELTER.
5. SINGLE COMMUNICATING DOOR FRAME.
6. DOOR TO BE POST-INSTALLED. PRE-CON MEETING REQUIRED BEFORE CONSTRUCTION OF THE ROUGH-OPENING.
7. THUMB PRINT ACCESS CONTROL, BY OTHERS. PROVIDE ROUGH IN.
8. TO AVOID INTERFERENCE OF LATCHES IN COMMUNICATING DOOR FRAME, LOCATE CENTERLINE OF LATCH 2" BELOW CENTERLINE OF LATCH ON STORM DOOR.
9. MOUNT DOOR HOLDER 80" A.F.F. MOUNT STRIKE TO WALL AND BODY TO DOOR.

GENERAL NOTE:

REFER TO SPECIFICATIONS FOR DOOR HARDWARE

FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS
(937) 492-6983
www.freytaginc.com
info@freytaginc.com
226 N. MIAMI AVE.
P.O. BOX 220
SIDNEY, OHIO 45365

NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY
SIDNEY, OH 45365
2324 CAMPBELL ROAD

STATE OF OHIO
DANIEL J. FREYTAG 8533
REGISTERED ARCHITECT

Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

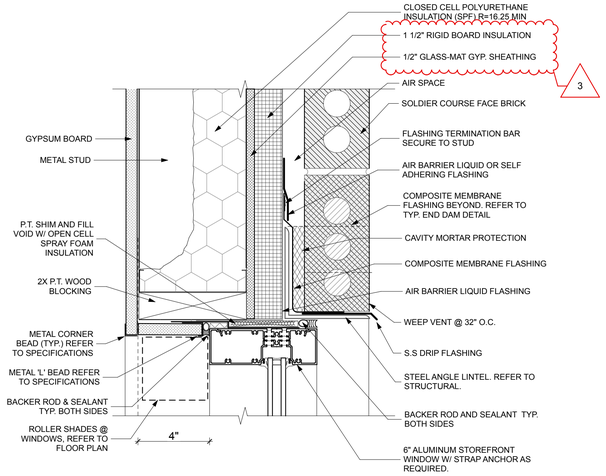
REVISIONS
STORM SHELTER REVIEW
PLAN APPROVAL / BIDDING
1 ADDENDUM 2 1/10/2025
2 ADDENDUM 3 1/24/2025

COMM. NUMBER	DATE
2207.02	11/22/24
DRAWN BY: AF/RS	CHECKED BY: DF

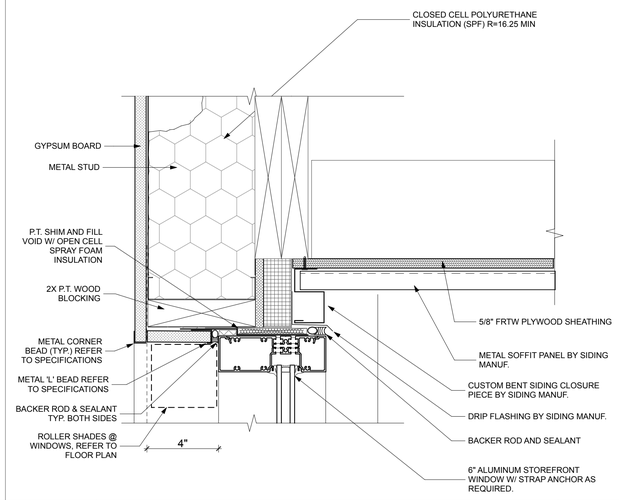
ROOM AND DOOR SCHEDULE

A7.1

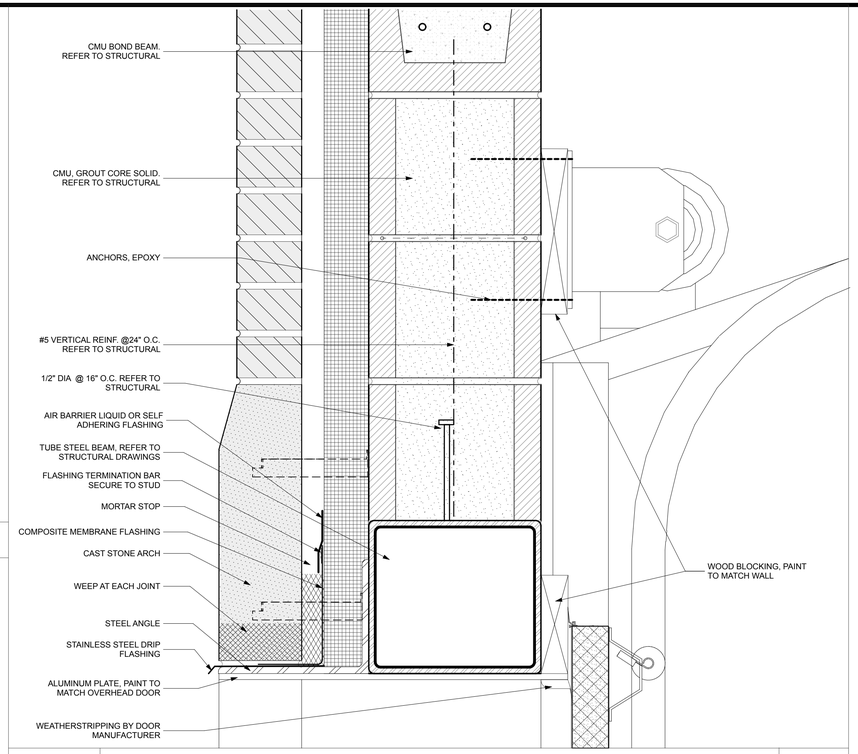
PLOT DATE: 1/23/25 @ 4:17 PM LAYOUT: A7/A7.1-SCHEDULES ROOM AND DOOR SCHEDULE FILENAME: 231103 Fire Station CD FILE PATH: BIMcloud: freytaginc - BIMcloud Software as a Service/231103 Fire Station CD



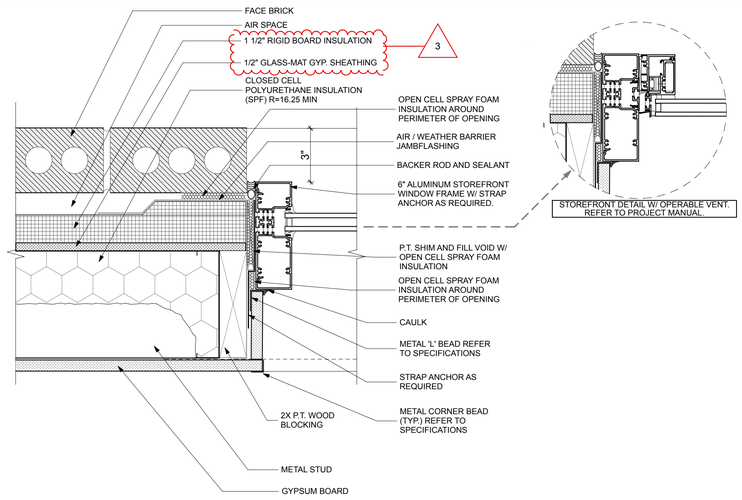
H11 HEAD DETAIL 3" = 1'- 0"



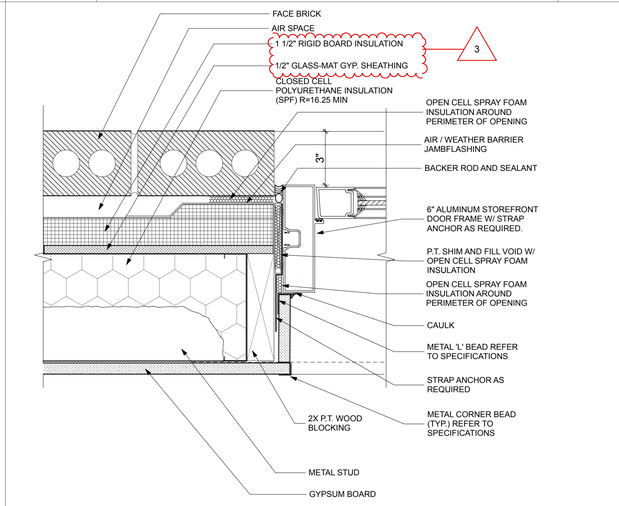
H10 HEAD DETAIL 3" = 1'- 0"



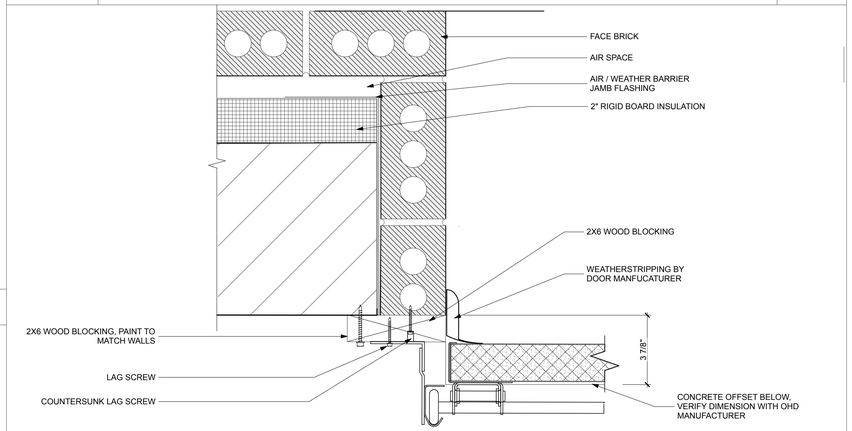
H9 HEAD DETAIL 3" = 1'- 0"



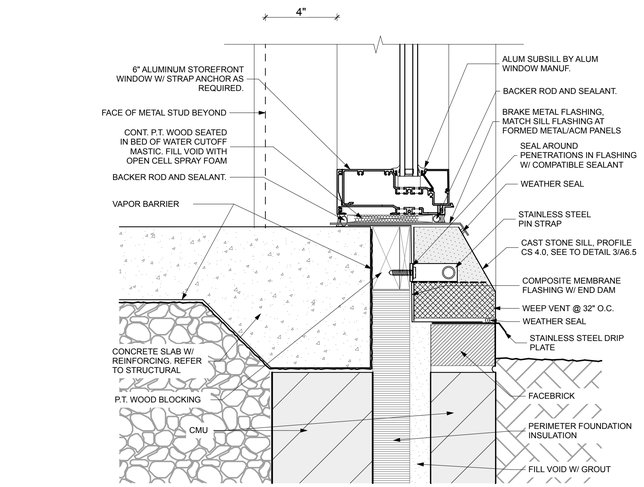
J11 JAMB DETAIL 3" = 1'- 0"



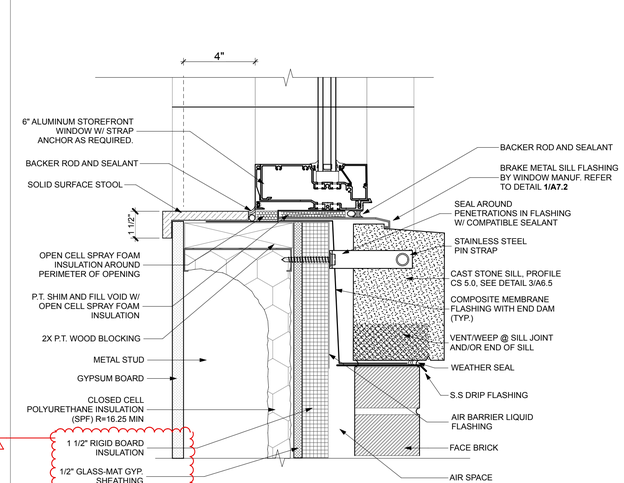
J10 JAMB DETAIL 3" = 1'- 0"



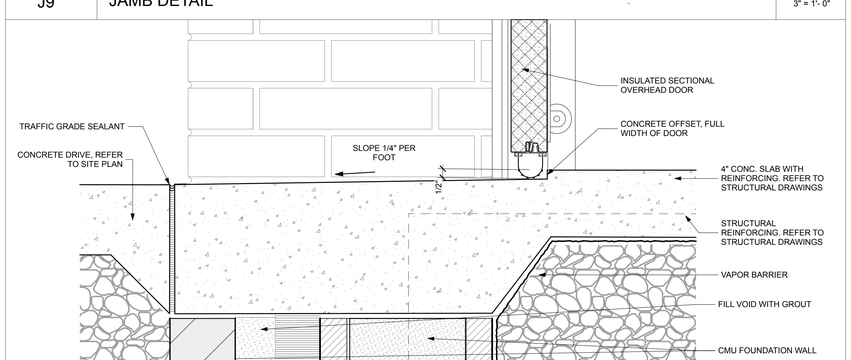
J9 JAMB DETAIL 3" = 1'- 0"



S11 SILL DETAIL 3" = 1'- 0"



S10 SILL DETAIL 3" = 1'- 0"



S9 SILL DETAIL 3" = 1'- 0"

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NEW CONSTRUCTION OF
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SIDNEY, OH 45365
2324 CAMPBELL ROAD

STATE OF OHIO
DANIEL J. FREYTAG 8533
REGISTERED ARCHITECT

Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

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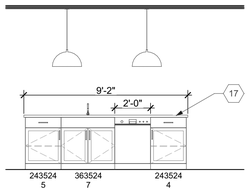
STORM SHELTER REVIEW
PLAN APPROVAL / BIDDING
1 ADDENDUM 2 1/10/2025
2 ADDENDUM 3 1/24/2025

COMM. NUMBER	DATE
2207.02	11/22/24
DRAWN BY	CHECKED BY
AF/RS	DF

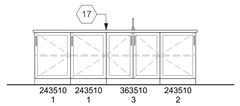
HEAD JAMB AND SILL DETAILS

A7.3

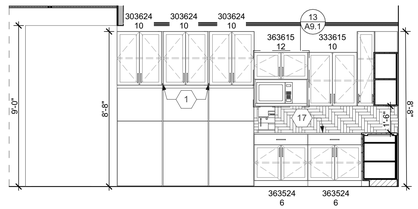
PLOT DATE: 1/23/25 @ 2:24 PM LAYOUT: A7.A7.3/SCHEDULES : HEAD JAMB AND SILL DETAILS FILENAME: 231103 Fire Station CD FILE PATH: BIM/cloud: freytagarc - BIM/cloud Software as a Service/231103 Fire Station CD



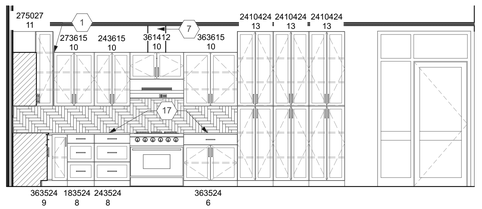
1 A9.1 **114 S KITCHEN/DAYROOM**
SCALE: 1/4" = 1'-0"



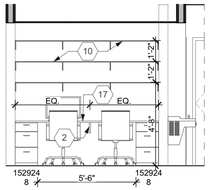
2 A9.1 **114 N ISLAND**
SCALE: 1/4" = 1'-0"



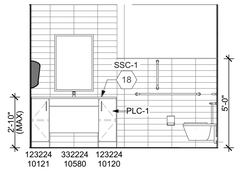
3 A9.1 **114 W KITCHEN/DAYROOM**
SCALE: 1/4" = 1'-0"



4 A9.1 **114 N KITCHEN/DAYROOM**
SCALE: 1/4" = 1'-0"



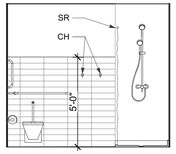
5 A9.1 **115 E CORRIDOR**
SCALE: 1/4" = 1'-0"



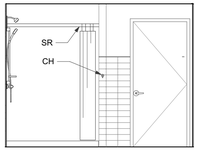
6 A9.1 **107 N TOILET/SHOWER**
SCALE: 1/4" = 1'-0"

MIRROR FOR 109 TOILET/SHOWER

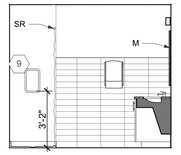
3



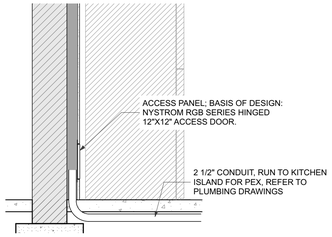
7 A9.1 **107 E TOILET/SHOWER**
SCALE: 1/4" = 1'-0"



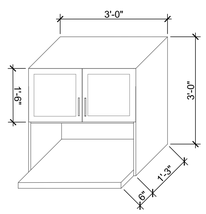
8 A9.1 **S 107 S TOILET/SHOWER**
SCALE: 1/4" = 1'-0"



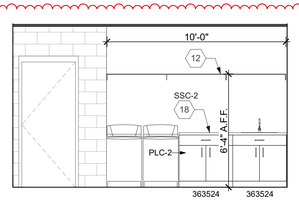
9 A9.1 **107 W TOILET/SHOWER**
SCALE: 1/4" = 1'-0"



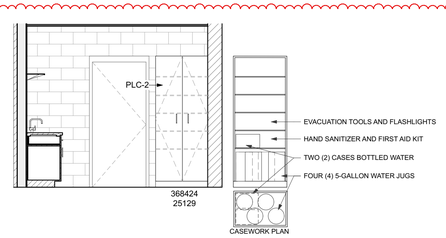
12 A9.1 **CASEWORK DETAIL**
SCALE: 1/2" = 1'-0"



13 A9.1 **CASEWORK DETAIL**
SCALE: 1/2" = 1'-0"



14 A9.1 **119 W DECON/LAUNDRY**
SCALE: 1/4" = 1'-0"



15 A9.1 **119 N DECON/LAUNDRY**
SCALE: 1/4" = 1'-0"

3

INTERIOR ELEVATION NOTES

ALL NOTES MAY NOT BE REFERENCED ON THIS SHEET.

1. CABINET FILLER, SIZE AS REQUIRED.
2. PROVIDE ANY NECESSARY SUPPORTS UNDER COUNTER.
3. WHITE BOARD, REFER TO SPECIFICATIONS.
4. TACTICAL TRAINING TIE-OFF, REFER TO STRUCTURAL.
5. STEEL STRUCTURE FOR TRAINING TIE-OFFS, REFER TO STRUCTURAL.
6. FUR OUT WALL AROUND TACTICAL TRAINING WINDOW WITH 2X4 TUBE STEEL. COVER WITH PLYWOOD SHEATHING. REFER TO SECTION 3/A6.7. FIELD VERIFY WITH OWNER / ARCHITECT.
7. CHASE AROUND DUCT.
8. PROVIDE LOCK ON CASEWORK. REFER TO CASEWORK SCHEDULE.
9. TOILETRY NICHE, REFER TO SPECIFICATIONS.
10. WOOD SHELVING WITH METAL BRACKETS, PROVIDE ANY NECESSARY BLOCKING/SUPPORTS.
11. STAINLESS STEEL SHELF, PROVIDE ANY NECESSARY BLOCKING/ SUPPORTS.
12. WHITE STEEL WIRE SHELF, PROVIDE ANY NECESSARY BLOCKING/ SUPPORTS.
13. PROVIDE BLOCKING FOR FUTURE SHOWER SEAT.
14. WALL-MOUNTED TV, BY OWNER, 60" A.F.F. COORDINATE WITH TECHNOLOGY DRAWINGS. PROVIDE NECESSARY DATA/ELECTRIC CONNECTIONS AND BLOCKING. COORDINATE LOCATION WITH OWNER/ ARCHITECT.
15. 43" STATION MONITOR U.N.O., BY OWNER, COORDINATE WITH TECHNOLOGY DRAWINGS. PROVIDE NECESSARY DATA/ELECTRIC CONNECTIONS AND BLOCKING. COORDINATE LOCATION WITH OWNER/ ARCHITECT. 60" A.F.F. U.N.O.
16. MIRROR, REFER TO SPECIFICATIONS.
17. GRANITE/STONE COUNTERTOP
18. SOLID SURFACE COUNTERTOP
19. N.I.C. GRAPHIC PROVIDED BY OWNER.

ELEVATION GENERAL NOTES

A. VERIFY ANY DIMENSIONS FOR OWNER PROVIDED EQUIPMENT WITH OWNER / ARCHITECT PRIOR TO CASEWORK FABRICATION.

B. REFER TO MOUNTING HEIGHTS ON SHEET A2.3 FOR ANY RESTROOM NOT SHOWN ON INTERIOR ELEVATIONS.

C. PROVIDE ANY NECESSARY BLOCKING.

D. COORDINATE LOCATIONS WITH MECHANICAL, ELECTRICAL, PLUMBING AND TECHNOLOGY DRAWINGS.

ELEVATION LEGEND

CASEWORK NOMINAL WIDTH (SIDE TO SIDE)
CASEWORK NOMINAL HEIGHT (NOT INCLUDING COUNTER)
362924
10129
CASEWORK NOMINAL DEPTH (BACK TO FRONT)
CASEWORK ITEM, SEE SCHEDULE ON A9.1

CASEWORK SCHEDULE - PLASTIC LAMINATE

BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN CATALOG NUMBER	DESCRIPTION	MECHANICAL CONNECTION	NOTES
CASEWORK - REFER TO DIV 12				
STEVENS	10101	BASE CABINET WITH ADJUSTABLE SHELF		
STEVENS	10120	BASE CABINET WITH ONE RIGHT HINGE DOOR AND ADJUSTABLE SHELVES		
STEVENS	10121	BASE CABINET WITH ONE LEFT HINGE DOOR AND ADJUSTABLE SHELVES		
STEVENS	10201	BASE CABINET BLIND CORNER WITH ONE LEFT HINGE DOOR WITH ONE ADJUSTABLE SHELF		
STEVENS	10339	BASE CABINET WITH ONE 6-1/8"H DRAWER AND TWO EQUAL DRAWERS		
STEVENS	10430	BASE CABINET WITH ONE 6-1/8"H DRAWER AND TWO HINGE DOORS BELOW WITH ONE ADJUSTABLE SHELF		
STEVENS	10479	SINK BASE WITH A SINGLE 6-1/8"H BLANK PANEL AND TWO HINGE DOORS, REMOVABLE BACK	SINK & FIXTURES PROVIDED BY PLUMBING CONTRACTOR. COORDINATE INSTALLATION.	
STEVENS	10580	ADA WALL SINK WITH ACCESS PANEL	FIXTURES PROVIDED BY PLUMBING CONTRACTOR. COORDINATE INSTALLATION.	INTEGRAL SINK PROVIDED BY COUNTER MANUFACTURER, BASIS OF DESIGN CORIAN SOLID SURFACE LAVATORY 8254 (18" X 12 3/4" X 5")
STEVENS	25101	TALL CABINET WITH FOUR ADJUSTABLE SHELVES AND ONE FIXED SHELF		
STEVENS	25129	TALL CABINET WITH TWO HINGE DOORS AND FOUR ADJUSTABLE SHELVES AND ONE FIXED SHELF		PROVIDE LOCK ON CASEWORK AS INDICATED ON INTERIOR ELEVATIONS
CUSTOM	SEE 7/A9.2	TALL CABINET WITH TWO RIGHT HINGE DOORS, ADJUSTABLE SHELVES ABOVE, CLOTHES HANGING ROD ON LEFT SIDE, ADJUSTABLE SHELVES ON RIGHT SIDE, AND SHELF BELOW		NO BACK PANEL. PROVIDE LOCK ON CASEWORK: SLABBED CABINET MORTISE CYLINDER CAM LOCKS, CORE BY HARDWARE SUPPLIER, REFER TO HARDARE SCHEDULE, KEYED TO MATCH DOOR ON HALLWAY SIDE.
CUSTOM	SEE 6/A9.2	TALL CABINET WITH TWO LEFT HINGE DOORS, ADJUSTABLE SHELVES ABOVE, ADJUSTABLE SHELVES ON LEFT SIDE, CLOTHES HANGING ROD ON RIGHT SIDE, AND SHELF BELOW		NO BACK PANEL. PROVIDE LOCK ON CASEWORK: SLABBED CABINET MORTISE CYLINDER CAM LOCKS, CORE BY HARDWARE SUPPLIER, REFER TO HARDARE SCHEDULE, KEYED TO MATCH DOOR ON HALLWAY SIDE.

CASEWORK SCHEDULE - CUSTOM WOOD

BASIS OF DESIGN		DESCRIPTION	MECHANICAL CONNECTION	NOTES
CASEWORK - REFER TO DIV 12				
CUSTOM	1	BASE CABINET WITH ONE RIGHT HINGE DOOR WITH ONE ADJUSTABLE SHELF		
CUSTOM	2	BASE CABINET WITH ONE LEFT HINGE DOOR WITH ONE ADJUSTABLE SHELF		
CUSTOM	3	BASE CABINET WITH TWO HINGE DOORS WITH ONE ADJUSTABLE SHELF		
CUSTOM	4	BASE CABINET WITH ONE 6-1/8"H DRAWER AND ONE RIGHT HINGE DOOR BELOW WITH ONE ADJUSTABLE SHELF		
CUSTOM	5	BASE CABINET WITH ONE 6-1/8"H DRAWER AND ONE LEFT HINGE DOOR BELOW WITH ONE ADJUSTABLE SHELF		
CUSTOM	6	BASE CABINET WITH ONE 6-1/8"H DRAWER AND TWO HINGE DOORS BELOW WITH ONE ADJUSTABLE SHELF		
CUSTOM	7	SINK BASE WITH A SINGLE 6-1/8"H BLANK PANEL AND TWO HINGE DOORS	SINK & FIXTURES PROVIDED BY PLUMBING CONTRACTOR. COORDINATE INSTALLATION.	
CUSTOM	8	BASE CABINET WITH ONE 6-1/8" DRAWER AND TWO EQUAL DRAWERS		
CUSTOM	9	BASE CABINET BLIND CORNER WITH ONE LEFT HINGE DOOR WITH ONE ADJUSTABLE SHELF		
CUSTOM	10	WALL CABINET WITH TWO HINGE DOORS AND ADJUSTABLE SHELVES		14" H - NO SHELF 30-36" H - ONE ADJUSTABLE SHELF
CUSTOM	11	WALL CABINET DIAGONAL CORNER WITH RIGHT HINGE DOOR AND TWO ADJUSTABLE SHELVES		
CUSTOM	12	WALL CABINET WITH TWO UPPER HINGE DOORS AND OPEN SHELF BELOW		BOTTOM SHELF TO EXTEND 6" BEYOND THE DEPTH OF THE UPPER DOORS
CUSTOM	13	TALL CABINET WITH TWO HINGE UPPER DOORS AND TWO HINGE LOWER DOORS WITH ADJUSTABLE SHELVES		

FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS
(937) 492-6983
www.freytaginc.com
info@freytaginc.com
226 N. MIAMI AVE.
P.O. BOX 220
SIDNEY, OHIO 45365

NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY
SIDNEY, OH 45365
2324 CAMPBELL ROAD

STATE OF OHIO
DANIEL J. FREYTAG 8533
REGISTERED ARCHITECT

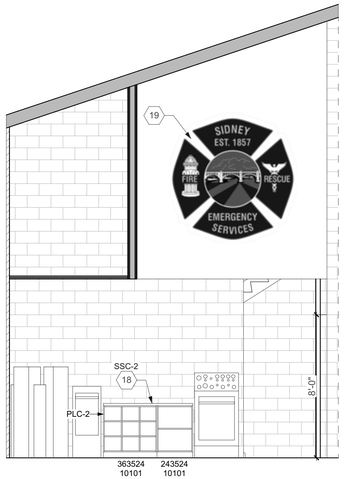
Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

REVISIONS
STORM SHELTER REVIEW
PLAN APPROVAL / BIDDING
3 ADDENDUM 2 1/10/2025
3 ADDENDUM 3 1/21/2025

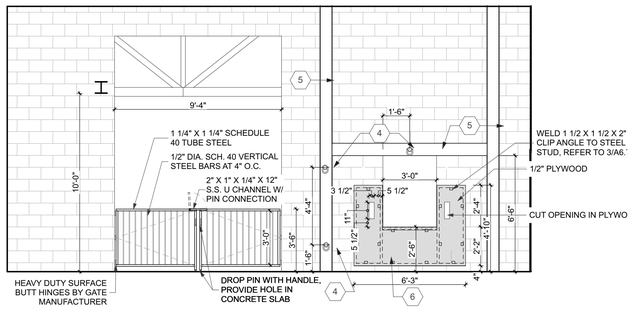
COMM. NUMBER	DATE
2207.02	11/22/24
DRAWN BY	CHECKED BY
AF/RS	DF

INTERIOR ELEVATIONS

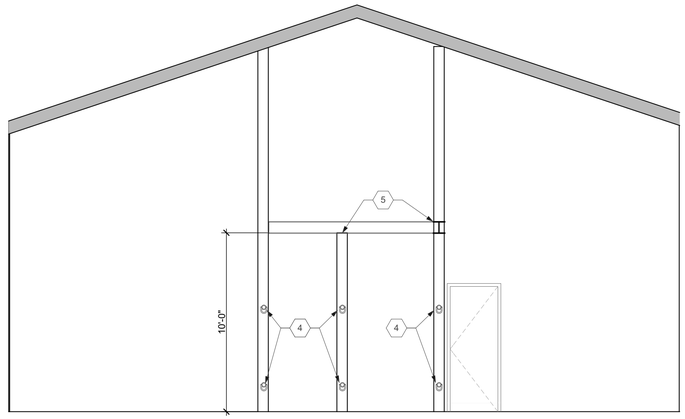
A9.1



1 A9.2 **E SCBA AREA**
SCALE: 1/4" = 1'-0"



2 A9.2 **202 W TRAINING**
SCALE: 1/4" = 1'-0"



3 A9.2 **202 E TRAINING**
SCALE: 1/4" = 1'-0"

4 A9.2 **116 N CORRIDOR**
SCALE: 1/4" = 1'-0"

5 A9.2 **116 S CORRIDOR**
SCALE: 1/4" = 1'-0"

6 A9.2 **LOCKERS @ 110, 112**
SCALE: 1/2" = 1'-0"

7 A9.2 **LOCKERS @ 108, 111, 113**
SCALE: 1/2" = 1'-0"

8 A9.2 **LOCKER**
SCALE: 1/2" = 1'-0"

9 A9.2 **N HEAVY DECON**
SCALE: 1/4" = 1'-0"

10 A9.2 **S HEAVY DECON**
SCALE: 1/4" = 1'-0"

INTERIOR ELEVATION NOTES

ALL NOTES MAY NOT BE REFERENCED ON THIS SHEET.

1. CABINET FILLER, SIZE AS REQUIRED.
2. PROVIDE ANY NECESSARY SUPPORTS UNDER COUNTER.
3. WHITE BOARD, REFER TO SPECIFICATIONS.
4. TACTICAL TRAINING TIE-OFF, REFER TO STRUCTURAL.
5. STEEL STRUCTURE FOR TRAINING TIE-OFFS, REFER TO STRUCTURAL.
6. FUR OUT WALL AROUND TACTICAL TRAINING WINDOW WITH 2X4 TUBE STEEL. COVER WITH PLYWOOD SHEATHING. REFER TO SECTION 3/A6.7. FIELD VERIFY WITH OWNER / ARCHITECT.
7. CHASE AROUND DUCT.
8. PROVIDE LOCK ON CASEWORK. REFER TO CASEWORK SCHEDULE.
9. TOILETRY NICHE, REFER TO SPECIFICATIONS.
10. WOOD SHELVING WITH METAL BRACKETS, PROVIDE ANY NECESSARY BLOCKING/SUPPORTS.
11. STAINLESS STEEL SHELF, PROVIDE ANY NECESSARY BLOCKING/ SUPPORTS.
12. WHITE STEEL WIRE SHELF, PROVIDE ANY NECESSARY BLOCKING/ SUPPORTS.
13. PROVIDE BLOCKING FOR FUTURE SHOWER SEAT.
14. WALL-MOUNTED TV, BY OWNER, 60" A.F.F. COORDINATE WITH TECHNOLOGY DRAWINGS. PROVIDE NECESSARY DATA/ELECTRIC CONNECTIONS AND BLOCKING. COORDINATE LOCATION WITH OWNER/ ARCHITECT.
15. 43" STATION MONITOR U.N.O., BY OWNER, COORDINATE WITH TECHNOLOGY DRAWINGS. PROVIDE NECESSARY DATA/ELECTRIC CONNECTIONS AND BLOCKING. COORDINATE LOCATION WITH OWNER/ ARCHITECT. 60" A.F.F. U.N.O.
16. MIRROR, REFER TO SPECIFICATIONS.
17. GRANITE/STONE COUNTERTOP
18. SOLID SURFACE COUNTERTOP
19. N.I.C. GRAPHIC PROVIDED BY OWNER.

ELEVATION GENERAL NOTES

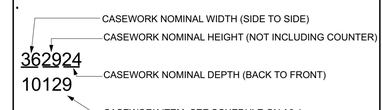
A. VERIFY ANY DIMENSIONS FOR OWNER PROVIDED EQUIPMENT WITH OWNER / ARCHITECT PRIOR TO CASEWORK FABRICATION.

B. REFER TO MOUNTING HEIGHTS ON SHEET A2.3 FOR ANY RESTROOM NOT SHOWN ON INTERIOR ELEVATIONS.

C. PROVIDE ANY NECESSARY BLOCKING.

D. COORDINATE LOCATIONS WITH MECHANICAL, ELECTRICAL, PLUMBING AND TECHNOLOGY DRAWINGS.

ELEVATION LEGEND



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NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY
SIDNEY, OH 45365
2324 CAMPBELL ROAD

STATE OF OHIO
DANIEL J. FREYTAG 8533
REGISTERED ARCHITECT

Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

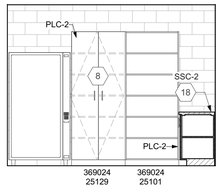
REVISIONS
STORM SHELTER REVIEW
PLAN APPROVAL / BIDDING
1 ADDENDUM 2 1/10/2025
2 ADDENDUM 3 1/21/2025

COMM. NUMBER	DATE
2207.02	11/22/24
DRAWN BY	CHECKED BY
AF/RS	DF

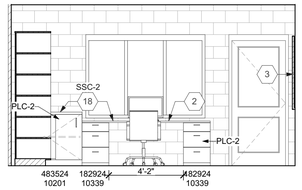
INTERIOR ELEVATIONS

A9.2

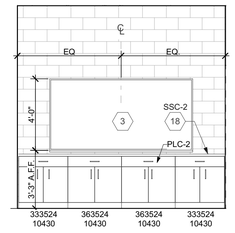
PLOT DATE: 1/16/25 @ 2:37 PM LAYOUT: A9.A9.2-INTERIOR ELEVATIONS AND DETAILS - INTERIOR ELEVATIONS FILENAME: 231103 Fire Station CD FILE PATH: BIMcloud: freytagnc - BIMcloud Software as a Service\231103 Fire Station CD



1 A9.3 **117 S REPORT ROOM**
SCALE: 1/4" = 1'-0"

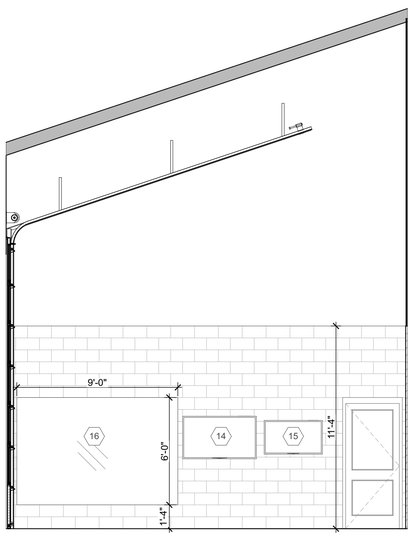


2 A9.3 **117 W REPORT ROOM**
SCALE: 1/4" = 1'-0"

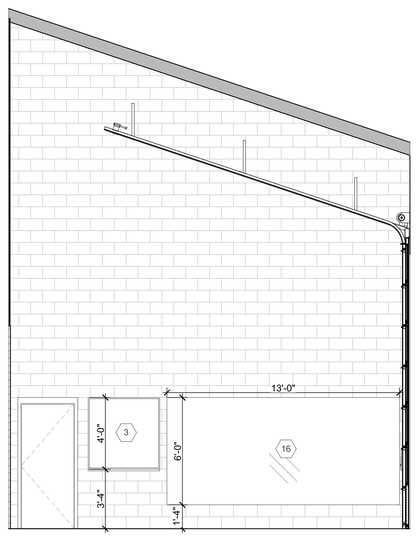


3 A9.3 **S RADIO ALCOVE**
SCALE: 1/4" = 1'-0"

3



4 A9.3 **124 E WEIGHT ROOM**
SCALE: 1/4" = 1'-0"



5 A9.3 **124 W WEIGHT ROOM**
SCALE: 1/4" = 1'-0"

INTERIOR ELEVATION NOTES

ALL NOTES MAY NOT BE REFERENCED ON THIS SHEET.

1. CABINET FILLER, SIZE AS REQUIRED.
2. PROVIDE ANY NECESSARY SUPPORTS UNDER COUNTER.
3. WHITE BOARD, REFER TO SPECIFICATIONS.
4. TACTICAL TRAINING TIE-OFF, REFER TO STRUCTURAL.
5. STEEL STRUCTURE FOR TRAINING TIE-OFFS, REFER TO STRUCTURAL.
6. FUR OUT WALL AROUND TACTICAL TRAINING WINDOW WITH 2X4 TUBE STEEL. COVER WITH PLYWOOD SHEATHING. REFER TO SECTION 3/A6.7. FIELD VERIFY WITH OWNER / ARCHITECT.
7. CHASE AROUND DUCT.
8. PROVIDE LOCK ON CASEWORK. REFER TO CASEWORK SCHEDULE.
9. TOILETRY NICHE, REFER TO SPECIFICATIONS.
10. WOOD SHELVING WITH METAL BRACKETS, PROVIDE ANY NECESSARY BLOCKING/SUPPORTS.
11. STAINLESS STEEL SHELF, PROVIDE ANY NECESSARY BLOCKING/ SUPPORTS.
12. WHITE STEEL WIRE SHELF, PROVIDE ANY NECESSARY BLOCKING/ SUPPORTS.
13. PROVIDE BLOCKING FOR FUTURE SHOWER SEAT.
14. WALL-MOUNTED TV, BY OWNER, 60" A.F.F. COORDINATE WITH TECHNOLOGY DRAWINGS. PROVIDE NECESSARY DATA/ELECTRIC CONNECTIONS AND BLOCKING. COORDINATE LOCATION WITH OWNER/ ARCHITECT.
15. 43" STATION MONITOR U.N.O., BY OWNER, COORDINATE WITH TECHNOLOGY DRAWINGS. PROVIDE NECESSARY DATA/ELECTRIC CONNECTIONS AND BLOCKING. COORDINATE LOCATION WITH OWNER/ ARCHITECT. 60" A.F.F. U.N.O.
16. MIRROR, REFER TO SPECIFICATIONS.
17. GRANITE/STONE COUNTERTOP
18. SOLID SURFACE COUNTERTOP
19. N.I.C. GRAPHIC PROVIDED BY OWNER.

ELEVATION GENERAL NOTES

A. VERIFY ANY DIMENSIONS FOR OWNER PROVIDED EQUIPMENT WITH OWNER / ARCHITECT PRIOR TO CASEWORK FABRICATION.

B. REFER TO MOUNTING HEIGHTS ON SHEET A2.3 FOR ANY RESTROOM NOT SHOWN ON INTERIOR ELEVATIONS.

C. PROVIDE ANY NECESSARY BLOCKING.

D. COORDINATE LOCATIONS WITH MECHANICAL, ELECTRICAL, PLUMBING AND TECHNOLOGY DRAWINGS.

ELEVATION LEGEND

CASEWORK NOMINAL WIDTH (SIDE TO SIDE)
CASEWORK NOMINAL HEIGHT (NOT INCLUDING COUNTER)
362924
10129
CASEWORK NOMINAL DEPTH (BACK TO FRONT)
CASEWORK ITEM, SEE SCHEDULE ON A9.1

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CITY OF SIDNEY
2324 CAMPBELL ROAD SIDNEY, OH 45365

STATE OF OHIO
DANIEL J. FREYTAG 8533
REGISTERED ARCHITECT

Daniel J. Freytag, License #8533
Expiration Date: 12/31/2025

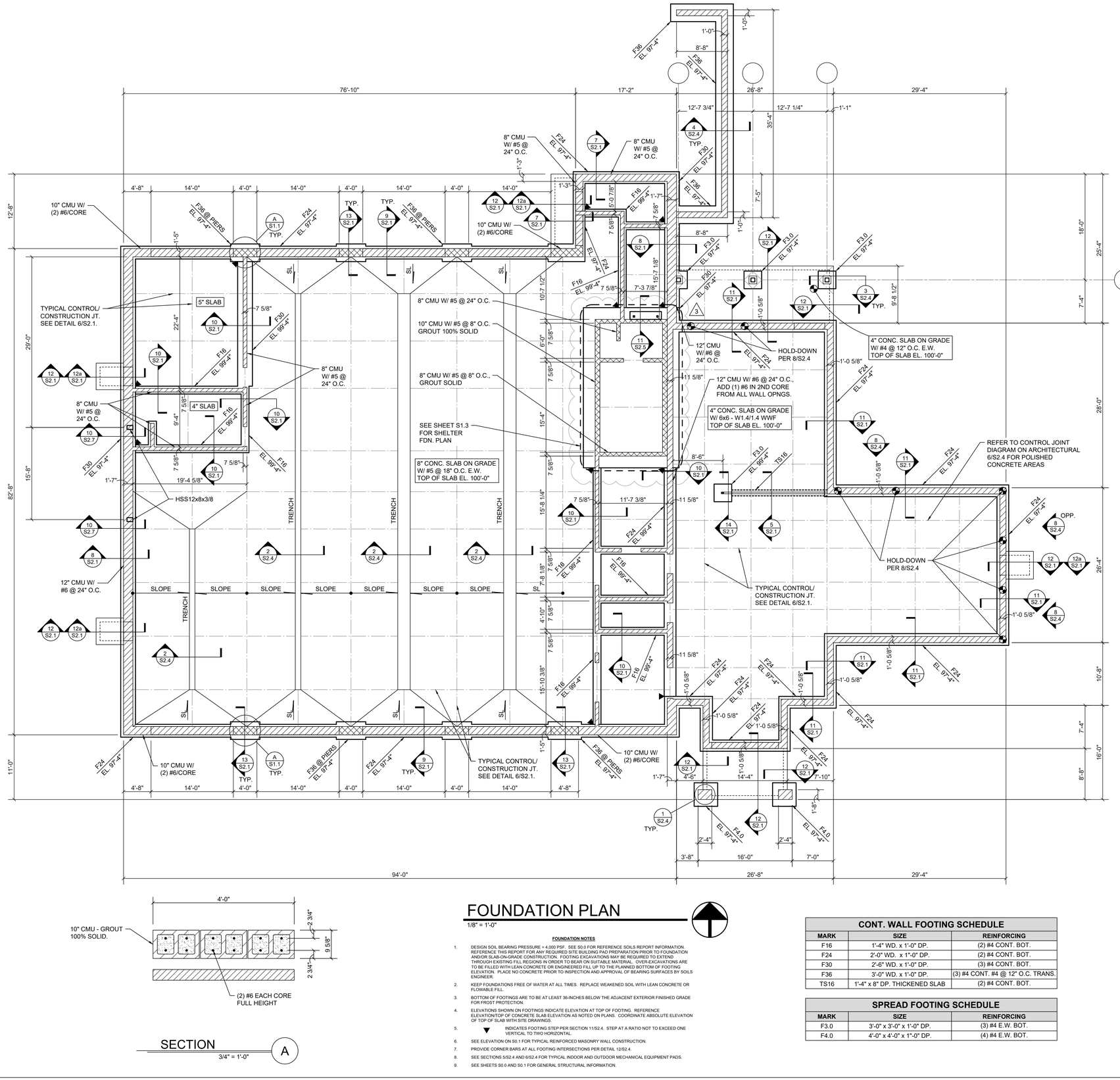
REVISIONS
STORM SHELTER REVIEW
PLAN APPROVAL / BIDDING
1 ADDENDUM 2 1/10/2025
2 ADDENDUM 3 1/21/2025

COMM. NUMBER	DATE
2207.02	11/22/24
DRAWN BY	CHECKED BY
AF/RS	DF

INTERIOR ELEVATIONS

A9.3

PLOT DATE: 1/14/25 @ 1:53 PM LAYOUT: A9.3-INTERIOR ELEVATIONS AND DETAILS - INTERIOR ELEVATIONS FILENAME: 231103 Fire Station CD FILE PATH: BIMcloud: freytagnc - BIMcloud Software as a Service\231103 Fire Station CD



SECTION A

3/4" = 1'-0"

FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION NOTES

1. DESIGN SOIL BEARING PRESSURE = 4,000 PSF. SEE S0.0 FOR REFERENCE SOILS REPORT INFORMATION. REFERENCE THIS REPORT FOR ANY REQUIRED SITE BUILDING PAD PREPARATION PRIOR TO FOUNDATION AND/OR SLAB-ON-GRADE CONSTRUCTION. FOOTING EXCAVATIONS MAY BE REQUIRED TO EXTEND THROUGH EXISTING FILL REGIONS IN ORDER TO BEAR ON SUITABLE MATERIAL. OVER-EXCAVATIONS ARE TO BE FILLED WITH LEAN CONCRETE OR ENGINEERED FILL UP TO THE PLANNED BOTTOM OF FOOTING ELEVATION. PLACE NO CONCRETE PRIOR TO INSPECTION AND APPROVAL OF BEARING SURFACES BY SOILS ENGINEER.
2. KEEP FOUNDATIONS FREE OF WATER AT ALL TIMES. REPLACE WEAKENED SOIL WITH LEAN CONCRETE OR FLOWABLE FILL.
3. BOTTOM OF FOOTINGS ARE TO BE AT LEAST 36-INCHES BELOW THE ADJACENT EXTERIOR FINISHED GRADE FOR FROST PROTECTION.
4. ELEVATIONS SHOWN ON FOOTINGS INDICATE ELEVATION AT TOP OF FOOTING. REFERENCE ELEVATION/TOP OF CONCRETE SLAB ELEVATION AS NOTED ON PLANS. COORDINATE ABSOLUTE ELEVATION OF TOP OF SLAB WITH SITE DRAWINGS.
5. ▼ INDICATES FOOTING STEP PER SECTION 11/S2.4. STEP AT A RATIO NOT TO EXCEED ONE VERTICAL TO TWO HORIZONTAL.
6. SEE ELEVATION ON S0.1 FOR TYPICAL REINFORCED MASONRY WALL CONSTRUCTION.
7. PROVIDE CORNER BARS AT ALL FOOTING INTERSECTIONS PER DETAIL 12/S2.4.
8. SEE SECTIONS S/S2.4 AND 6/S2.4 FOR TYPICAL INDOOR AND OUTDOOR MECHANICAL EQUIPMENT PADS.
9. SEE SHEETS S0.0 AND S0.1 FOR GENERAL STRUCTURAL INFORMATION.

CONT. WALL FOOTING SCHEDULE

MARK	SIZE	REINFORCING
F16	1'-4" WD. x 1'-0" DP.	(2) #4 CONT. BOT.
F24	2'-0" WD. x 1'-0" DP.	(2) #4 CONT. BOT.
F30	2'-6" WD. x 1'-0" DP.	(3) #4 CONT. BOT.
F36	3'-0" WD. x 1'-0" DP.	(3) #4 CONT. #4 @ 12" O.C. TRANS.
TS16	1'-4" x 8" DP. THICKENED SLAB	(2) #4 CONT. BOT.

SPREAD FOOTING SCHEDULE

MARK	SIZE	REINFORCING
F3.0	3'-0" x 3'-0" x 1'-0" DP.	(3) #4 E.W. BOT.
F4.0	4'-0" x 4'-0" x 1"-0" DP.	(4) #4 E.W. BOT.

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Jezerinac Geers
Structural Engineering
Jezerinac Geers & Associates, Inc.
5640 Frantz Road, Dublin, OH 43017
614.766.0066, fax 614.766.1223
www.jgaeng.com

STATE OF OHIO · DANIEL R. GEERS · #E-70905 · REGISTERED PROFESSIONAL ENGINEER

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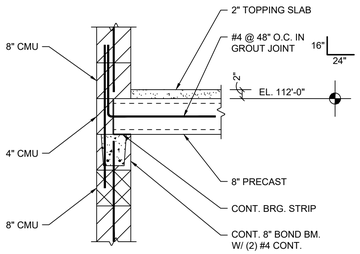
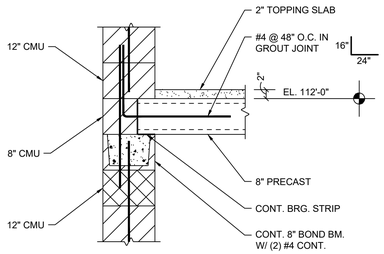
FOUNDATION PLAN

S1.1



SECTION 1
3/4" = 1'-0"



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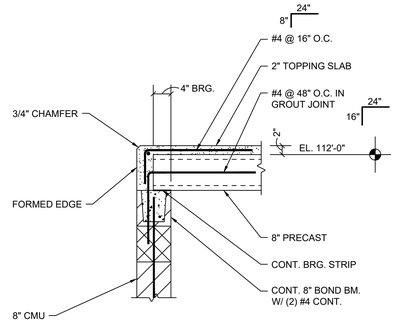

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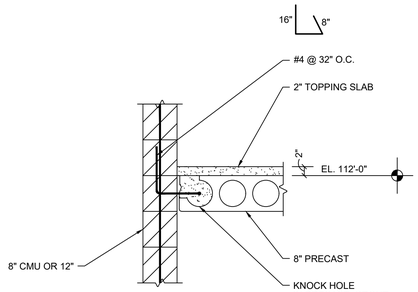

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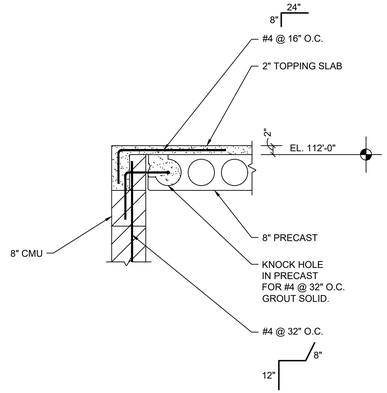

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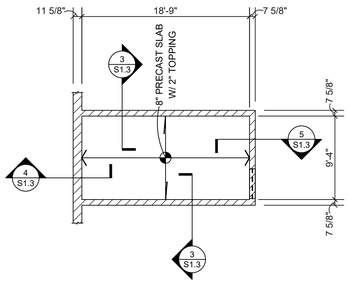

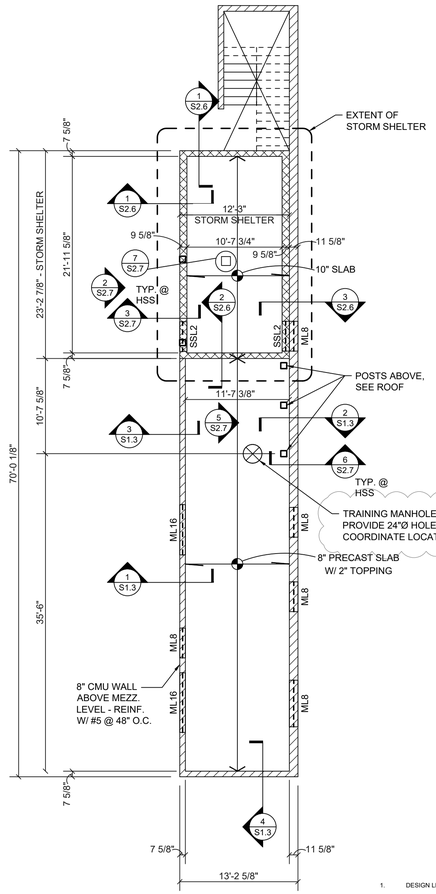

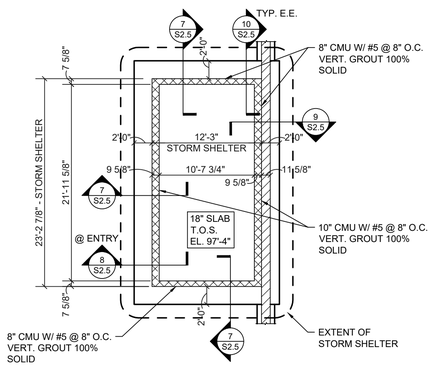

STORM SHELTER FOUNDATION PLAN
1/8" = 1'-0"

STORM SHELTER FRAMING NOTES

1. DESIGN LIVE LOADS:
   - ROOF LIVE — 100 PSF
   - COLLAPSE / LAYDOWN — +110 PSF
2. ROOF CONSTRUCTION:
   - 10" THICK CAST-IN-PLACE CONCRETE SLAB. SEE PLANS AND/OR SECTIONS FOR REINFORCING SIZE, SPACING, LAYOUT, AND POSITION.
3. SSL(x) — INDICATES MASONRY BOND BEAM LINTEL IN STORM SHELTER CONSTRUCTION PER SECTION 1/S2.5. PROVIDE ADDITIONAL JAMB REINFORCING EACH END PER DETAIL 2/S2.5. COORDINATE EMBED PLATE REQUIREMENTS WITH OPENING PROTECTION DEVICE MANUFACTURER.
4. TOP OF SLAB ELEVATION NOTED ON PLAN. REFERENCE ELEVATION 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE.
5. CONSTRUCT CORNERS OF STORM SHELTER MASONRY WALLS PER DETAIL 3/S2.5. SEE DETAIL 4/S2.5 FOR OFF-COURSING PLAN CONSTRUCTION.
6. PROVIDE PLATE SHROUDS PER DETAIL 5/S2.5 OR SECTION 6/S2.5 FOR ALL WALL OPENINGS (MECHANICAL, ELECTRICAL, PLUMBING, ETC.) EXCEEDING 3-1/2 SQUARE INCHES OR 2-1/16 INCH DIAMETER.
7. SEE SHEETS S0.0 AND S0.1 FOR GENERAL STRUCTURAL INFORMATION.

SPECIAL INSPECTIONS OF STORM SHELTER CONSTRUCTION TO CONFORM TO LEVEL C QUALITY ASSURANCE REQUIREMENTS, PER SHEET S0.0.

MEZZANINE FRAMING PLAN
1/8" = 1'-0"

MEZZANINE FLOOR FRAMING NOTES

1. DESIGN LIVE LOADS:
   - MEZZANINE — 100 PSF; STORM SHELTER LOADING
   - STAIRS AND EXITS — 100 PSF
2. FLOOR CONSTRUCTION:
   - TYPICAL AREAS: 8 INCH DEEP PRECAST CONCRETE PLANK WITH 2 INCH CONCRETE TOPPING. . PROVIDE CONTROL JOINTS IN TOPPING SLAB PARALLEL TO SPAN OF PLANK AT 12'-0" O.C. SEE PLAN FOR ADDITIONAL CONTROL JOINT LOCATIONS.
   - STORM SHELTER AREAS: 10 CAST-IN PLACE SLAB.
3. PRECAST CONCRETE TOPPING SLABS ARE TO BE FINISHED TO A THEORETICAL LEVEL. THICKNESSES GIVEN ARE APPLICABLE AT COLUMNS, BEARING WALLS, AND OTHER RIGID SUPPORTING ELEMENTS. TOPPING SLABS MAY, THEREFORE, BE THINNER AT MID-SPAN OF PRECAST PLANK DUE TO CAMBER AND MUST BE ACCOUNTED FOR IF COMPOSITE MEMBER DESIGN IS UTILIZED.
4. REFERENCE ELEVATION IS 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE. TOP OF MEZZANINE SLAB ELEVATION = 112'-2".
5. SEE SHEETS S0.0 AND S0.1 FOR GENERAL STRUCTURAL INFORMATION.

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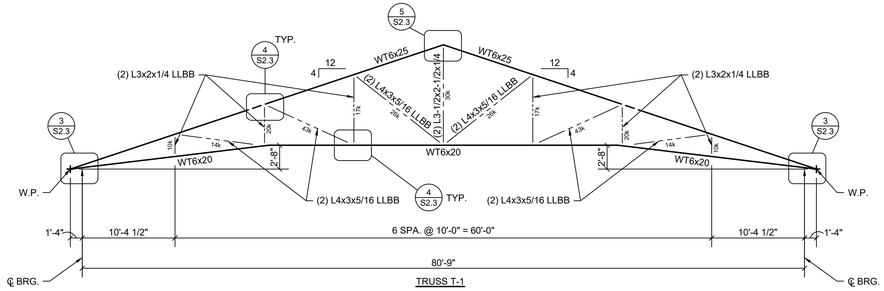
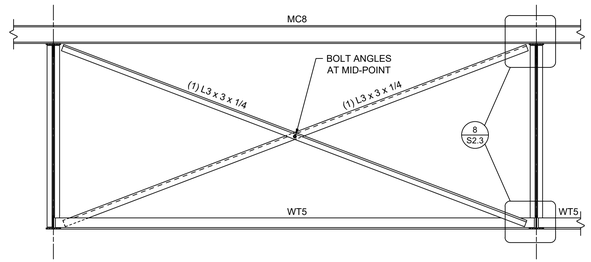
MEZZANINE FRAMING PLAN

S1.3



SECTION 1
1/8" = 1'-0"



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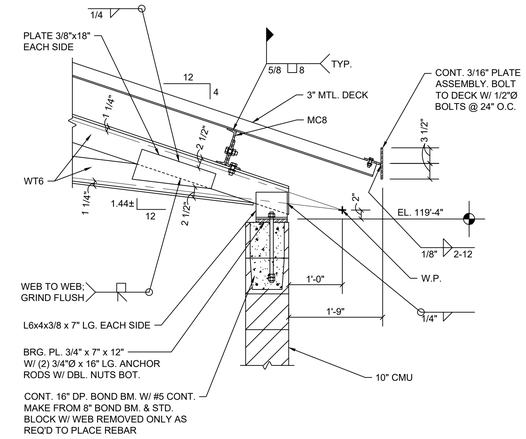
3/8" = 1'-0"



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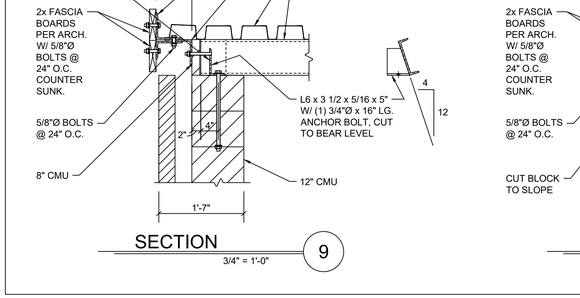
3/4" = 1'-0"



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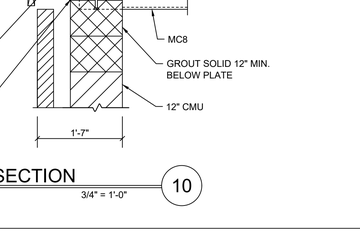
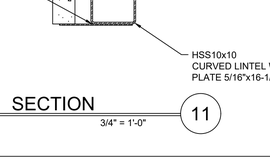
3/4" = 1'-0"



SECTION 5
3/4" = 1'-0"



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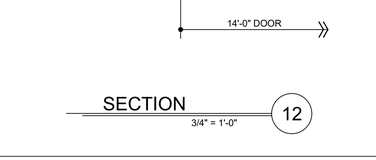
3/4" = 1'-0"



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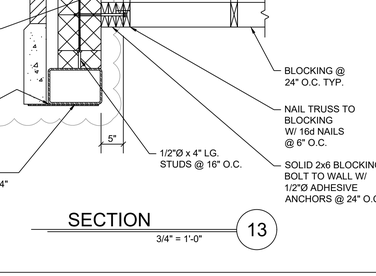
3/4" = 1'-0"



SECTION 8
3/4" = 1'-0"

SECTION 9
3/4" = 1'-0"

SECTION 10
3/4" = 1'-0"

SECTION 11
3/4" = 1'-0"

SECTION 12
3/4" = 1'-0"

SECTION 13
3/4" = 1'-0"

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FRAMING DETAILS

S2.3

SEISMIC CONTROL SPECIFICATIONS

PART 1 - GENERAL

1.1 SUMMARY
- A. THIS SECTION INCLUDES THE FOLLOWING:
  1. SEISMIC CONTROL REQUIREMENTS.

1.2 PERFORMANCE REQUIREMENTS
- A. SEISMIC CERTIFICATION AND ANALYSIS:
  1. EACH TRADE CONTRACTOR SHALL RETAIN A SPECIALTY CONSULTANT OR EQUIPMENT MANUFACTURER TO DEVELOP A SEISMIC RESTRAINT SYSTEM AND PERFORM SEISMIC CALCULATIONS IN ACCORDANCE WITH THE OBC AND ASCE 7, AND ADDITIONAL REQUIREMENTS SPECIFIED IN THIS SECTION. A PROFESSIONAL ENGINEER EXPERIENCED IN SEISMIC RESTRAINT DESIGN AND INSTALLATION AND LICENSED IN THE STATE OF OHIO SHALL BE RESPONSIBLE FOR CALCULATIONS, RESTRAINT SELECTIONS AND INSTALLATION DETAILS.
  2. THE SEISMIC RESTRAINT DESIGN SHALL CLEARLY INDICATE THE ATTACHMENT POINTS TO THE BUILDING STRUCTURE AND DESIGN FORCES IN ALL HORIZONTAL AND VERTICAL AXES AT THE ATTACHMENT POINTS. THE SEISMIC RESTRAINT ENGINEER SHALL COORDINATE ALL ATTACHMENTS WITH THE BUILDING'S STRUCTURAL ENGINEER OF RECORD, WHO SHALL VERIFY THE ATTACHMENT METHODS AND THE ABILITY OF THE BUILDING STRUCTURE TO ACCEPT THE LOADS IMPOSED.
  3. THE SEISMIC RESTRAINT DESIGN SHALL BE BASED ON ACTUAL EQUIPMENT DATA (DIMENSIONS, WEIGHT, CENTER OF GRAVITY, ETC.) OBTAINED FROM SUBMITTALS OR THE MANUFACTURERS. THE EQUIPMENT MANUFACTURER SHALL VERIFY THAT THE ATTACHMENT POINTS ON THE EQUIPMENT CAN ACCEPT THE COMBINATION OF SEISMIC, WEIGHT, AND OTHER LOADS IMPOSED. FOR LIFE SAFETY SYSTEMS AND OTHER SYSTEMS THAT MUST REMAIN OPERATIONAL DURING AND AFTER AN EARTHQUAKE, THE MANUFACTURER SHALL PROVIDE CERTIFICATION THAT THE EQUIPMENT CAN ACCEPT THE LOADS IMPOSED AND REMAIN OPERATIONAL.
  4. ANALYSIS SHALL INCLUDE CALCULATED DEAD LOADS, STATIC SEISMIC LOADS, AND CAPACITY OF MATERIALS UTILIZED FOR THE CONNECTION OF THE EQUIPMENT OR SYSTEM TO THE STRUCTURE. ANALYSIS SHALL DETAIL ANCHORING METHODS, BOLT DIAMETER, EMBEDMENT AND/OR WELDED LENGTH. ALL SEISMIC RESTRAINT DEVICES SHALL BE DESIGNED TO ACCEPT, WITHOUT FAILURE, THE FORCES DETAILED IN THE CODE ACTING THROUGH THE EQUIPMENT OR SYSTEM'S CENTER OF GRAVITY.

1.3 SUBMITTALS
- A. DELEGATED-DESIGN SUBMITTAL: THE SEISMIC RESTRAINT DESIGN, CONSISTING OF CALCULATIONS, RESTRAINT SELECTION, INSTALLATION DETAILS, AND OTHER DOCUMENTATION, SHALL BE SUBMITTED. THIS SUBMITTAL SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, AS STATED ABOVE. THIS SUBMITTAL WILL BECOME PART OF THE PROJECT DESIGN CALCULATIONS, INCLUDED IN THE PROJECT RECORDS, AND WHEN REQUIRED, WILL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION.
- B. SEISMIC RESTRAINT DEVICES: PRODUCT DATA, VERIFICATION OF SEISMIC CAPABILITIES AND INSTALLATION DETAILS.
- C. WELDING CERTIFICATES.
- D. FIELD QUALITY-CONTROL TEST REPORTS.

1.4 QUALITY ASSURANCE
- A. COMPLY WITH SEISMIC-RESTRAINT REQUIREMENTS IN THE OBC UNLESS REQUIREMENTS IN THIS SECTION ARE MORE STRINGENT.
- B. WELDING: QUALIFY PROCEDURES AND PERSONNEL ACCORDING TO AWS D1.1/D1.1M, "STRUCTURAL WELDING CODE - STEEL."
- C. ALL SEISMIC RESTRAINTS AND COMBINATION ISOLATOR / RESTRAINTS SHALL HAVE VERIFICATION OF THEIR SEISMIC CAPABILITIES. MANUFACTURERS MAY VERIFY THEIR CAPABILITIES BY TESTING THAT IS WITNESSED BY AN INDEPENDENT PROFESSIONAL ENGINEER OR AN ASSOCIATION THAT HAS DEVELOPED A UNIFORM SET OF TEST STANDARDS. INDEPENDENT APPROVAL CAN ALSO BE OBTAINED BY AGENCIES SUCH AS OSHPD (OFFICE OF STATEWIDE HEALTH, PLANNING AND DEVELOPMENT) FROM THE STATE OF CALIFORNIA, NES, ICBO ES, FACTORY MUTUAL, UNDERWRITERS LAB, RECOGNIZED INDUSTRY STANDARDS ORGANIZATIONS SUCH AS VISCMA, ETC.

PART 2 - PRODUCTS

2.1 SEISMIC-RESTRAINT DEVICES
- A. SEISMIC RESTRAINT DEVICES MAY INCLUDE ANY MANUFACTURER'S SYSTEM(S) SUITABLE FOR THE BUILDING CONSTRUCTION APPLICATION.
- B. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
  1. THE VMC GROUP (VIBRATION MOUNTING AND CONTROLS)
  2. MASON INDUSTRIES
  3. KINETICS NOISE CONTROL.

3

SEISMIC GENERAL REQUIREMENTS

1. THE PROJECT HAS SEISMIC LOAD SUPPORT REQUIREMENTS BASED ON THE SEISMIC USE GROUP (OCCUPANCY) DESIGNATION OF THE FACILITY OF "IV" AND SEISMIC DESIGN CATEGORY "C". REFER TO DRAWING S0.01 FOR ADDITIONAL INFORMATION.
2. SEISMIC DESIGN REQUIREMENTS FOR MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE PROVIDED AS REQUIRED BY 2024 OHIO BUILDING CODE CHAPTER 16, SECTION 1613 EARTHQUAKE LOADS AND BY REFERENCE, THE AMERICAN SOCIETY OF STRUCTURAL ENGINEERS (ASCE) STANDARD 7-16 "MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES" (2016).
3. CHAPTER 13 OF ASCE 7-16 DEFINES THE REQUIREMENTS FOR THE MECHANICAL AND ELECTRICAL COMPONENTS.
4. THE COMPONENT IMPORTANCE FACTOR, Ip SHALL BE 1.5 FOR ALL COMPONENTS PER ASCE 7-16, 13.1.3 SINCE THE COMPONENTS ARE REQUIRED TO FUNCTION FOR LIFE SAFETY PURPOSES AFTER AN EARTHQUAKE AS WELL AS THE COMPONENTS ARE ALL LOCATED WITHIN AN OCCUPANCY CATEGORY "IV" STRUCTURE.
5. ASCE 7-16, TABLE 13.6-1 DEFINES THE SEISMIC AMPLIFICATION FACTOR Ap AND RESPONSE FACTOR Rp FOR EACH COMPONENT THAT SHALL BE USED IN DETERMINING THE ATTACHMENT REQUIREMENTS.
6. CERTAIN COMPONENTS TO BE SEISMICALLY BRACED AND SUPPORTED ARE TO ALSO INCLUDE VIBRATION ISOLATION WHERE INDICATED.
7. FIRE SUPPRESSION PIPING SHALL BE SEICMIC BRACED PER THE REQUIREMENTS OF NFPA 13-2022.

   ALL MECHANICAL AND ELECTRICAL SYSTEMS MUST FUNCTION AFTER AN EARTHQUAKE. EQUIPMENT, COMPONENTS, PIPING, DUCTWORK, CONDUIT, COMMUNICATION CABLING, ETC. SHALL BE SEISMICALLY BRACED. EXCEPTIONS:

   PLUMBING:
   - PIPING ON TRAPEZE HANGERS WHERE THE LARGEST PIPE IS NO GREATER THAN 2" AND THE TOTAL WEIGHT OF ALL PIPES IS LESS THAN 10LB/FT. (WEIGHT IS OPERATIONAL WEIGHT)
   - CAST IRON OR PVC PIPE 2" AND SMALLER SHALL BE CONSIDERED AN IMPORTANCE FACTOR OF Ip=1.0 AND THEREFORE, DO NOT REQUIRE BRACING.
   - COPPER AND STEEL PIPING 2" OR LESS ON SINGLE HANGERS.

   HVAC:
   - DUCTWORK LESS THAN 6 SQ. FT.
   - INLINE DUCTWORK COMPONENTS, I.E. FANS, TERMINAL UNITS, HUMIDIFIERS, ETC. THAT ARE 75 LBS OR LESS.
   - PIPING ON TRAPEZE HANGERS WHERE THE LARGEST PIPE IS NO GREATER THAN 2" AND THE TOTAL WEIGHT OF ALL PIPES IS LESS THAN 10LB/FT. (WEIGHT IS OPERATIONAL WEIGHT)
   - COPPER AND STEEL PIPING 2" OR LESS ON SINGLE HANGERS.

   ELECTRICAL:
   - CONDUIT LESS THAN 2.5".
   - LIGHT FIXTURES INDEPENDENTLY SUPPORTED FROM STRUCTURE WITH SUPPORTS DESIGNED FOR 1.4 TIMES THE FIXTURE WEIGHT.
   - CEILING FANS SUSPENDED FROM STRUCTURE WITH ATTACHMENT DESIGNED FOR 1.4 TIMES THE FAN WEIGHT.

GENERAL NOTES - HVAC

1. PROVIDE COMPLETE AND FUNCTIONAL HVAC SYSTEMS PER HVAC PLANS INCLUDING FURNISHING, INSTALLING, TESTING AND WARRANTY OF ALL WORK.
2. WORK SHALL BE IN ACCORDANCE WITH THE 2017 OHIO BUILDING AND MECHANICAL CODES INCLUDING REFERENCED CODES AND STANDARDS, ALL FEDERAL, STATE, AND LOCAL CODES AND ALL APPLICABLE LAWS, ORDINANCES AND REGULATIONS.
3. WORK SHALL BE PERFORMED USING BEST QUALITY INSTALLATION PRACTICE BY A QUALIFIED TRADE CONTRACTOR AND THEIR QUALIFIED SUBCONTRACTORS. ALL CONTRACTORS SHALL BE LICENSED AND BE BONDED FOR THE WORK.
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND OWNER SAFETY STANDARDS AND PRACTICES. ALL ON SITE PERSONNEL SHALL BE SAFETY TRAINED AND OWNER CERTIFIED.
5. OBTAIN REQUIRED PERMITS RELATED TO THE WORK AND PAY ALL PERMIT AND INSPECTION FEES.
6. THE AUTHORITY HAVING JURISDICTION SHALL INSPECT AND APPROVE ALL WORK. PROVIDE A FINAL CERTIFICATE OF APPROVAL FROM THE AUTHORITY HAVING JURISDICTION AND PRESENT TO THE OWNER BEFORE REQUESTING FINAL PAYMENT AND RELEASE OF RETAINAGE.
7. ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL HVAC SYSTEMS ARE INCLUDED IN THE CONTRACT.

GENERAL REQUIREMENTS - HVAC

1. PROTECT ALL FURNISHED MATERIAL AND EQUIPMENT FROM THEFT AND DETERIORATION OR CONTAMINATION DUE TO WEATHER OR CONSTRUCTION ACTIVITIES.
2. PROTECT OWNERS PROPERTY AND PROPERTY OF OTHER CONTRACTORS.
3. REMOVE ALL CONSTRUCTION DEBRIS FROM SITE. RECYCLE DEBRIS WHERE POSSIBLE. DISPOSE OF ALL HAZARDOUS MATERIAL IN ACCORDANCE WITH ENVIRONMENTAL LAWS.
4. PROVIDE ALL CUTTING AND PATCHING REQUIRED TO INSTALL MATERIAL AND EQUIPMENT.
5. PROVIDE APPROPRIATE FIRESTOPPING SYSTEM FOR ANNULAR SPACE OPENINGS AROUND DUCT AND PIPE PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION. ANNULAR SPACE OPENINGS AT DUCT OR PIPE PENETRATIONS IN NON RATED CONSTRUCTION TO BE CLOSED AIR AND WATER TIGHT.
6. MATERIALS AND EQUIPMENT SHALL BE ONE OF THE BRAND OR MANUFACTURERS LISTED OR AN APPROVED EQUAL.
7. ELECTRONIC SHOP DRAWINGS SHALL BE PROVIDED IN .PDF FORMAT FOR THE ENGINEER'S APPROVAL FOR ALL MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFICALLY EDITED TO ELIMINATE SUPERFLUOUS INFORMATION AND SHALL CLEARLY SHOW SPECIFICS FOR THE MATERIAL AND EQUIPMENT PROVIDED.
8. COORDINATE INSTALLATION OF ACTUAL EQUIPMENT AND SYSTEMS PROVIDED WITH OTHER TRADES.
9. INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS. PROVIDE REQUIRED CLEARANCES TO MEET CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND MAINTENANCE SERVICE.
10. ALL WORK AREAS SHALL BE CLEANED TO MATCH ORIGINAL CONDITION.
11. PROVIDE TESTING, ADJUSTING AND BALANCING (TAB) REPORTS FOR AIR AND WATER SYSTEMS. A CERTIFIED AABC OR NEBB FIRM SHALL PROVIDE THE BALANCE.
12. MAINTAIN RECORD DRAWINGS AND PROVIDE TO THE OWNER OR HIS AGENT.
13. PROVIDE TWO (2) BOUND, PAPER COPIES OF ALL OPERATING AND MAINTENANCE MANUALS. PROVIDE AN ELECTRONIC COPY OF THE OPERATING AND MAINTENANCE MANUAL.
14. PROVIDE WARRANTY FOR ALL WORKMANSHIP, EQUIPMENT AND MATERIAL. WARRANTY SHALL BE 1 YEAR FOR PART AND LABOR, PROVIDE EXTENDED WARRANTY PERIOD FOR PARTS AND/OR LABOR AS IDENTIFIED OR AS STANDARD FOR CERTAIN ITEMS OF EQUIPMENT.

DUCTWORK LEGEND

20/12 / 20/12	RECTANGULAR DUCT FIRST FIGURE IS SIDE SHOWN
10"ø / 10"ø	ROUND DUCT DIAMETER INDICATED
	STAINLESS STEEL DUCT
	FLEXIBLE FABRIC STEEL DUCT
	INSULATED FLEXIBLE DUCT
R	CHANGE OF ELEVATION R = RISE, D = DROP
	ELBOW WITH TURNING VANES
20/12	ROUND RUNOUT DUCT TAP TO RECTANGULAR DUCT WITH SPIN-IN FITTING, SEE DETAIL
10"ø	ROUND RUNOUT DUCT FITTING IN ROUND DUCT MAIN
	VOLUME DAMPER
FD	FIRE DAMPER
	SUPPLY DUCT SECTION - RISE, DROP
	RETURN DUCT SECTION - RISE, DROP
S1-8" / 300	SUPPLY AIR DEVICE S1 SEE SCHEDULE AND DETAIL 8" NECK SIZE 300 = REQUIRED AIR FLOW (CFM)
R1	TRANSFER AIR DEVICE R1 DEVICE TAG, SEE SCHEDULE AND DETAIL
R1 / 300	RETURN/EXHAUST DEVICE TAG: R=RETURN, E=EXHAUST 300 = REQUIRED AIR FLOW (CFM) DEVICE SIZE AS INDICATED IN AIR DEVICE SCHEDULE
S2-24/12 / 300-8' 6"	SIDEWALL AIR DEVICE SEE AIR DEVICE SCHEDULE 24/12 = DEVICE SIZE 300 = AIR FLOW (CFM) 8' 6" = MOUNTING HEIGHT (AFF)
S3-6" / 150-2	LINEAR SLOT PLENUM S3 - DEVICE TAG, SEE AIR DEVICE SCHEDULE 6" = ROUND DUCT CONNECTION SIZE 150 = AIR FLOW (CFM) 2 = NO. OF SLOTS
(E) / 120	EXISTING AIR DEVICE REBALANCE TO AIR FLOW INDICATED
T	ROOM TEMPERATURE SENSOR
C	CO/NO_2 SENSOR
	PUSHBUTTON
P	PRESSURE MONITOR

HVAC INDEX OF DRAWINGS

GENERAL LEGEND

EC	ELECTRICAL CONTRACTOR.
FC	FIRE PROTECTION CONTRACTOR.
GC	GENERAL CONTRACTOR.
HC	HVAC CONTRACTOR.
PC	PLUMBING CONTRACTOR.
TC	TEMPERATURE CONTROLS CONTRACTOR.
NIC	NOT IN CONTRACT.
AFF	ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
(E)	EXISTING.
ES	EQUIPMENT SUPPLIER.
EM	EMERGENCY.
MH	MOUNTING HEIGHT.
S	SURFACE MOUNTED.
WP	WEATHER PROOF.
3	NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
2	DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
H-1	EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
H-1	EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.
123	ROOM NUMBER.
B / H2	DETAIL SYMBOL DETAIL "B" SHOWN ON SHEET H2.
A / H1	SECTION SYMBOL SECTION "A" DESIGNATION, SHOWN ON SHEET H1.
A / H1	EXTERIOR ELEVATION SYMBOL ELEVATION "A" DESIGNATION, SHOWN ON SHEET H1.
	CONNECTION, NEW TO EXISTING.
FD1	UP TO SYMBOL UP TO "FD1", SHOWN ON FLOOR ABOVE.
	ITEM TO BE REMOVED.
	EXISTING TO REMAIN.
	NEW ITEM.

PIPING LEGEND

	INDICATES DIRECTION OF FLOW
CD	CONDENSATE DRAIN
S/L	REFRIGERANT - SUCTION AND LIQUID PIPES, 2 PIPES TOTAL
S/L/HPG	REFRIGERANT - SUCTION, LIQUID, AND HIGH PRESSURE GAS PIPES, 3 PIPES TOTAL
0.375"L 0.875"S 0.75"HPG	REFRIGERANT LINE SET - LIQUID, SUCTION, AND HIGH PRESSURE GAS PIPES 0.375"L = LIQUID PIPE SIZE 0.875"S = SUCTION PIPE SIZE 0.75"HPG = HIGH PRESSURE/LOW PRESSURE GAS SIZE.
0.375"L 0.625"S	REFRIGERANT LINE SET - LIQUID AND SUCTION PIPES 0.375"L = LIQUID PIPE SIZE 0.625"S = SUCTION PIPE SIZE
	BRANCH SELECTOR BOX EQUIPMENT SIZE AS DEPICTED ON BRANCH SELECTOR SCHEDULE
	SHUT-OFF VALVE, SEE SCHEDULE FOR TYPE
	CHECK VALVE
	BALANCING VALVE
	CAP
	PIPE HOSE THREAD CONNECTION
	CONNECTION, BOTTOM
	CONNECTION, TOP
	CONNECTION, SIDE
	ELBOW, 90°, LONG RADIUS
	ELBOW, 45°, LONG RADIUS
	ELBOW, TURNED UP
	ELBOW, TURNED DOWN

FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS
226 N. MIAMI AVE.
P.O. BOX 220
SIDNEY, OHIO 45365
(937) 492-6983
www.freytagarc.com
info@freytagarc.com

NEW CONSTRUCTION OF
FIRE STATIONS 2
CITY OF SIDNEY
2324 CAMPBELL ROAD SIDNEY, OHIO 45365

STATE OF OHIO
JEFFREY D. ZELINSKI
E-38122
REGISTERED PROFESSIONAL ENGINEER

JEFFERY D. ZELINSKI LICENSE #E38122
EXPIRATION DATE 12/31/2025

REVISIONS
3 PLAN APPROVAL / BIDDING ADDENDUM 3 01/21/25

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2207.02	11/13/24
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LEGENDS AND SCHEDULES

H0.1

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821 – Fax: (937) 223-3849
PROJECT # 23015

DUCT INSULATION SCHEDULE

QUALITY ASSURANCE

INSULATION SHALL MEET NFPA 255, 25 FLAME SPREAD & 50 SMOKE DEVELOPMENT, UL 181, NFPA 90A/90B, ASTM 1136, AND ASTM E84.

MINIMUM INSULATION THICKNESS SHALL COMPLY WITH ASHRAE 90.1-2010

PRODUCTS

- PROTECTIVE METAL JACKET COVERS - 0.016" ALUMINUM.

EXECUTION

- INSULATION SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- DUCTWORK SHALL BE SEALED PRIOR TO INSTALLATION OF INSULATION.
- ALL EXTERIOR DUCT INSULATION SHALL BE SEALED WATERTIGHT.
- REINSULATE DUCTWORK WHERE EXISTING INSULATION IS DAMAGED IN CONNECTION OF NEW DUCTWORK
- ALL INSULATION VAPOR BARRIERS SHALL BE MAINTAINED.
- ADHESIVE SHALL BE APPLIED TO AID INSTALLATION.
- REQUIRED INTERNAL DUCT LINING IS INDICATED ON DRAWINGS. LINED DUCTWORK NEED NOT BE FURTHER INSULATED.
- DUCT COILS, REHEAT BOX COILS, CONTROL DAMPER, FIRE DAMPERS & SMOKE DAMPERS SHALL BE INSULATED IF SYSTEM INSULATION IS INDICATED.
- ALL INSULATION SHALL BE MARKED WITH MANUFACTURER, "R" VALUE, FLAME SPREAD & SMOKE DEVELOPMENT.

SYSTEM	INSULATION THICKNESS	TYPE	LOCATION	NOTES
SUPPLY AIR DUCT	1.5"	1	CONCEALED	
SUPPLY AIR DUCT	2"	2	EXPOSED	
SUPPLY AIR DUCT	2"	1	IN ATTIC	
SUPPLY AIR DUCT	INTEGRAL W/ DUCT	4	EXTERIOR	2
OUTDOOR AIR DUCT & PLEMUNS	1.5"	1	CONCEALED	
OUTDOOR AIR DUCT & PLEMUNS	2"	2	EXPOSED	
OUTDOOR AIR SUPPLY	INTEGRAL W/ DUCT	4	EXTERIOR	2
RETURN AIR DUCT	-	-	CONCEALED	
RETURN AIR DUCT	-	-	EXPOSED	
RETURN AIR DUCT	1.5"	1	IN ATTIC	
RETURN AIR DUCT	1"	3	FC-1, FC-3, FC-4, FC-5	
RELIEF AIR DUCT & PLENUMS	-	-	ALL	
EXHAUST AIR DUCT & PLENUMS	1.5"	1	IN ATTIC	

TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION
1	OWENS-CORNING SOFTR TYPE 75	KNAUF JM CERTAIN TEED	MATERIAL FIBERGLASS DUCT WRAP ON DUCT K = 0.30 @ 75 DEG. F. DENSITY - 0.75 PCF JACKET - FOIL REINFORCED JOINTS - OVERLAPPING STAPLE ALL JOINTS AT 6" CENTERS. FASTENERS - MECHANICAL ON 24" & WIDER DUCT. ADHESIVE - NONE TAPE - 3" WIDE
2	OWENS-CORNING TYPE 703	KNAUF JM CERTAIN TEED	MATERIAL FIBERGLASS BOARD ON DUCT K = 0.23 @ 75 DEG. F. DENSITY - 3.0 PCF JACKET - ASJ JOINTS - BUTT FASTENERS - METAL PINS & CLIPS ON 12" CENTERS ADHESIVE - NONE TAPE - 3" WIDE VAPOR PATCHED
3	OWENS-CORNING QUIET R ROTARY DUCT LINER	KNAUF JM CERTAIN TEED JOHNS MANVILLE	MATERIAL FIBERGLASS DUCT LINER K = 0.23 @ 75 DEG. F JACKET - NONE JOINTS - BUTT FASTENERS - METAL PINS & CLIPS ON 12" CENTERS ADHESIVE - COMPLIES WITH ASTM C916 TAPE - NONE LEADING EDGES - METAL NOSING
4	THERMADUCT	PRO-R DUCT TUFF DUCT	HIGH EFFICIENCY PRE-INSULATED OUTDOOR AIR DUCT R = 8.1 WEATHER PROOF OUTDOOR CLADDING VAPOR BARRIER; BONDED ALUMINUM FOIL WITH ZERO PERMABILITY

NOTES:

1. PROVIDE TWO LAYERS OF FIRE BARRIER WRAP ON ALL INTERIOR TYPE I KITCHEN HOOD GREASE DUCT.
2. DUCT SIZE INDICATED ON PLAN IS INTERIOR DIMENSION.

DUCT CONSTRUCTION MATERIAL SCHEDULE

DUCTWORK SYSTEM SCHEDULE

DUCTWORK SYSTEMS	LOCATION	MATERIAL	SMACNA CLASS. SP. CONSTR.	SMACNA CLASS. SEAL CLASS	NOTES
RETURN AIR	CONCEALED	G1	-2"	C	
RETURN AIR	EXPOSED	G2	-2"	C	1
OUTDOOR RETURN/EXHAUST AIR	ALL	G1	-2"	C	
OUTDOOR SUPPLY AIR	ALL	G1	+4"	A	
EXHAUST AIR	CONCEALED	G1	-2"	C	
EXHAUST AIR	EXPOSED	G2	-2"	C	1
AIR TRANSFER	ALL	G1	-1"	NOT REQ'D.	
SUPPLY AIR - VAV UPSTREAM	CONCEALED	G1	+4"	A	
SUPPLY AIR - VAV UPSTREAM	EXPOSED	G2	+4"	A	1
SUPPLY AIR - VAV DOWNSTREAM	CONCEALED	G1	+1"	C	
SUPPLY AIR - VAV DOWNSTREAM	EXPOSED	G2	+1"	C	1
SUPPLY AIR - CONSTANT VOLUME	CONCEALED	G1	+3"	B	
SUPPLY AIR	EXTERIOR	T1			
FLEXIBLE DUCTWORK - SUPPLY	CONCEALED OR UNCONDITIONED	C1	+10" -5"	N.A.	
FLEXIBLE DUCTWORK - RET./EXH./TRANSFER	CONCEALED	C2	+10" -5"	N.A.	
KITCHEN HOOD EXHAUST	ALL	SS1	-2"	C	
DOMESTIC WATER HEATER INTAKE	ALL	P1	-2"	A	
DOMESTIC WATER HEATER FLUE	ALL	P1	+4"	A	
GAS FIRED UNIT HEATER INTAKE	ALL	G1	-2"	A	
GAS FIRED UNIT HEATER FLUE	ALL	D1	+4"	A	
RADIANT HEATER INTAKE	ALL	G1	-2"	A	
RADIANT HEATER FLUE	ALL	D1	+4"	A	2
DOMESTIC DRYER VENT	ALL	A1	+/-2"	A	
GEAR DRYER	ALL	SS1	+2"	A	

DUCTWORK MATERIALS SCHEDULE

TYPE	MATERIAL	DESCRIPTION
A1	ALUMINUM	22 GA. MIN., SPIRAL ALUMINUM. JOINTS FASTENED BY SCREWS/RIVETS - SCREWS SHALL NOT PROTUDE FURTHUR THAN 1/8" INTO AIR STREAM - OMC 504.8.2. SUPPORT AT 4' INTERNVALLS
C1	CHLORINATED POLYETHYLENE	BLACK INNER FABRIC WITH GALVANIZED STEEL HELIX REINFORICING, R = 6.0 (MIN.) FIBERGLASS INSULATION, REINFORCED METALIZED VAPOR BARRIER, 0.05 PERM, UL 181, CLASS 1 DUCT, MEET NFPA 90A & 90B, 25/50 FLAME/SMOKE SPREAD
C2	CHLORINATED POLYETHYLENE	BLACK INNER FABRIC WITH GALVANIZED STEEL HELIX REINFORCING, R = 4.2 (MIN.) FIBERGLASS INSULATION, REINFORCED METALIZED VAPOR BARRIER, 0.05 PERM, UL 181, CLASS 1 DUCT, MEET NFPA 90A & 90B, 25/50 FLAME/SMOKE SPREAD.
D1	DOUBLE WALL FLUE	REFER TO SPECIFICATION 235100.
G1	GALVANIZED STEEL	24 GA. MIN., HOT DIPPED, GALVANIZED BOTH SIDES, G90 PER ASTM A653.
G2	3 GALVANNEALED STEEL	24 GA. MIN., HOT DIPPED, HEAT TREATED GALVANNEALED BOTH SIDES PER ASTM A653, PAINT UNIFORM GRAY MATTE APPEARANCE, A40 PER ASTM A653.
P1	POLYPROPYLENE	SCHEDULE 40 POLYPROPYLENE PIPE AND FITTINGS PER UL 1738
SS1	STAINLESS STEEL EXHAUST DUCT	FACTORY BUILT SYSTEM - SELKIRK MODEL G OR EQUAL BY CAPTIVE AIRE OR METALFAB TYPE 304 STAINLESS STEEL SHEET - SINGLE WALL CONSTRUCTION: 18 GA. MIN. - ASTM A480. JOINTS & SEAMS: VEE BANDS AND SEALANT FINISH: CONDITION A, NO ADDITIONAL FINISH. DUCT ACCESSORIES: CLEANOUT AT BOTTOM OF RISER TO FAN AND 90 CHANGE IN DIRECTION.
T1	THERMADUCT	REFER TO INSULATION SCHEDULE.

NOTES:

1. DUCTWORK SYSTEMS ARE TO MATCH BASE MATERIALS FOR EXPOSED INSTALLATIONS.
2. FLUE REQUIRES 1" MINIMUM CLEARANCE TO COMBUSTABLES IN ATTIC. PROVIDE ATTIC INSULATION SHIELD AND INSTALL PER MANUFACTURER'S RECOMMENDATION.

DUCT CONSTRUCTION GENERAL REQUIREMENTS

QUALITY ASSURANCE

- COMPLY WITH GENERAL WELDING PERSONNEL & PROCEDURES UNDER AWS D1.1/D1.1M, AWS D1.2/D1.2M & AWS D9.1/D9.1M.
- COMPLY WITH GENERAL DUCT CONSTRUCTION STANDARDS UNDER SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE - THIRD EDITION AND MOST CURRENT VERSION OF APPLICABLE ASHRAE 90.1 SECTION 6.4.4 AND ASHRAE 62.1 SECTIONS 5 & 7.
- COMPLY WITH SEISMIC REQUIREMENTS PRESCRIBED UNDER SMACNA DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE THIRD EDITION & ASCE/SEI 7.

PRODUCTS

ROUND OR FLAT OVAL SINGLE WALL DUCTWORK - 2" S.P. AND HIGHER

- CONTINUOUS HELICAL (SPIRAL) LOCK SEAM CONSTRUCTION.
- SLIP CONNECTIONS; GASKETED FLANGES ARE NOT ACCEPTABLE.
- USE 45 DEG. LATERAL TEES WHEREVER POSSIBLE.
- 90 DEG. TEES SHALL BE CONICAL SPIN-IN TYPE.
- DIE STAMPED ELBOWS, r/D = 1.5 (MIN.)
- RADIUSED, ANGLED (15° MAX.) OR MITERED (15° MAX.) OFFSETS.
- CONCENTRIC TRANSITIONS, 0 = 45° MAX.
- ECCENTRIC TRANSITIONS, 0 = 30° MAX.

ROUND OR FLAT OVAL DOUBLE WALL DUCTWORK - 2" S.P. AND HIGHER (SAME AS ABOVE EXCEPT:)

- INSULATION THICKNESS PER INSULATION SCHEDULE FOR INTENDED SERVICE.
- PERFORATED INNER LINER/SOLID INNER LINER.
- OUTER PRESSURE SHELL.

ROUND DUCTWORK - 1" S.P. OR LESS (SAME AS ABOVE EXCEPT:)

- LONGITUDINAL SEALED SEAM CONSTRUCTION ACCEPTABLE AT FINAL AIR DEVICE ONLY.
- STANDARD TEES ALLOWED.
- SEGMENTED ELBOWS ALLOWED.

RECTANGULAR DUCTWORK - 2" S.P. AND HIGHER

- FLAT SLIP, STANDING DRIVE OR GASKETED FLANGE DUCT SYSTEM CONNECTIONS.
- RADIUS OR SQUARE THROAT WITH DOUBLE WALL TURNING VANES ELBOW.
- 45 DEG. ENTRY OR CONICAL SPIN-IN BRANCH CONNECTIONS.
- RADIUSED, ANGLED (15° MAX.) OR MITERED (15° MAX.) OFFSETS.
- CONCENTRIC TRANSITIONS, 0 = 45° MAX.
- ECCENTRIC TRANSITIONS, 0 = 30° MAX.
- BRANCH DUCTS SHALL BE CONICAL TEE FITTINGS.
- SQUARE THROAT, RADIUS HEEL 90° ELBOWS ARE NOT PERMITTED.

RECTANGULAR DUCTWORK - 1" S.P. OR LESS (SAME AS ABOVE EXCEPT:)

- TURNING VANES IN ELBOWS NOT REQUIRED FOR AIR VELOCITIES LESS THAN 800 FPM.
- STRAIGHT TAP AND STANDARD SPIN-IN BRANCH CONNECTIONS PERMITTED.

FLEXIBLE DUCTWORK - SUPPLY/RETURN/TRANSFER/EXHAUST

- PROVIDE MANUFACTURED DUCT SUPPORTS AT 90 DEGREE ELBOWS TO CEILING AIR DEVICES.
- FLAME SPREAD LESS THAN 25, SMOKE DEVELOPMENT LESS THAN 50.

DUCT SEALANT & GASKETS

- GALVANIZED DUCT SEALANT - WATER BASED SYNTHETIC LATEX EMULSION, GRAY IN COLOR.
- FLANGE GASKETS - BUTYL RUBBER, NEOPRENE, OR EPDM POLYMER W/ POLYISOBUTYLENE PLASTICIZER.
- ALUMINUM DUCT SEALANT - ALUMINUM SILICONE, GRAY IN COLOR.
- PVC COATED DUCT SEALANT - PVS SEALANT OR CAULK/MINERAL IMPREGNATED FIBER TYPE.

DUCT HANGER SUPPORTS

- DUCT HANGER SUPPORTS SHALL DIRECTLY ATTACH TO DUCTWORK.
- EXTERIOR DUCT INSULATION WRAP SHALL BE APPLIED OVER DUCT AND HANGER SUPPORTS.
- ANGLE OR UNISTRUT SUPPORTS SHALL BE INSULATED A MINIMUM OF 4" BEYOND DUCT BEARING POINT TO PREVENT CONDENSATION.

EXECUTION

- DRAWINGS INDICATE GENERAL LOCATION OF DUCTWORK. COORDINATE DUCT LAYOUT CAREFULLY WITH OTHER TRADES TO AVOID CONFLICT. PROVIDE OFFSETS AS REQUIRED.
- SPAN DUCTWORK FROM STRUCTURAL CONCRETE/STEEL MEMBERS OR SUPPLEMENTARY STEEL SHAPES.
- FOR EXPOSED DUCTWORK, GRIND WELDS SMOOTH AND POLISH AND TRIM SEALANTS FLUSH WITH DUCT SURFACES.
- PROTECT DUCTWORK DURING CONSTRUCTION AND CLEAN PRIOR TO SYSTEM OPERATION.
- ROUTE DUCTWORK TO AVOID PASSING THRU TRANSFORMER VAULTS OR ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS PER NEC REQUIREMENTS.
- SEAL DUCTS ACCORDING TO SMACNA SEAL CLASS NOTED IN SCHEDULE.
- SYSTEMS OPERATING AT 3" S.P. OR HIGHER AND ALL EXTERIOR DUCTWORK SHALL REQUIRE DUCT PRESSURE TESTING.
- WET DUCT SYSTEMS SHALL BE PITCHED FOR DRAINAGE. PROVIDE TRAPPED DRAIN AT SYSTEM LOW POINTS AND PIPE TO LOCAL DRAIN POINT.
- THE G.C. SHALL PAINT ALL EXPOSED DUCTWORK TO MATCH BASE MATERIAL COLORS.

FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS
226 N. MIAMI AVE.
P.O. BOX 220
SIDNEY, OHIO 45365
(937) 492-6983
www.freytagarc.com
info@freytagarc.com

NEW CONSTRUCTION OF
FIRE STATIONS 2
CITY OF SIDNEY
SIDNEY, OHIO 45365
2324 CAMPBELL ROAD

STATE OF OHIO
JEFFREY D. ZELINSKI
63822
REGISTERED
PROFESSIONAL ENGINEER

JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

REVISIONS

PLAN APPROVAL / BIDDING
3 ADDENDUM 3 01/21/25

COMM. NUMBER	DATE
2207.02	11/13/24
DRAWN BY	CHECKED BY
DJZ	JDZ

DUCTWORK MATERIAL SCHEDULES

H0.2

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821 – Fax: (937) 223-3849

PROJECT # 23015

PIPING SYSTEMS - HVAC

GENERAL NOTES:

QUALITY ASSURANCE:

PIPING SHALL CONFORM TO OBC REQUIREMENTS.

PIPING SHALL COMPLY WITH ASME B31.9 "BUILDING SERVICES PIPING".

WELDING PROCEDURES & TESTING SHALL COMPLY WITH ANSI STANDARD B31.1.0.

PRODUCTS

REINFORCED FORGED WELDING OUTLETS EQUAL TO BONNET WELDOLET AND THREADOLET MAY BE USED WHERE BRANCH IS TWO SIZES SMALLER THAN THE MAIN.

DIELECTRIC CONNECTORS SHALL BE PROVIDED AT CONNECTIONS BETWEEN FERROUS & COPPER PIPING.

PIPING WITHIN 2'-0" OF SMALL HEATING/COOLING UNITS MAY BE TYPE "C3" PIPING.

MECHANICALLY FORMED TEES AND COUPLING (T-DRILL) ARE NOT PERMITTED

MECHANICAL JOINT PIPING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURED RECOMMENDATIONS.

UNIONS:
COPPER TUBING - WROUGHT OR CAST COPPER, CLASS 150, SOLDERED ENDS
THREADED STEEL PIPE - MALLEABLE IRON W/GROUND SEAT, 300 LB SCREWED ENDS

FLANGES:
COPPER TUBING - CLASS 150 CAST COPPER ALLOY, SOLDERED
STEEL PIPE - CLASS 150 SLIP-ON OR WELD NECK
GASKETS - 1/16" THICK FULL FACE COMPRESSED SHEET GASKET SUITABLE FOR PRESSURE AND TEMPERATURE RANGES OF THE APPLICATION

BULB WELLS FOR TEMPERATURE SENSING SPECIFIED IN THE CONTROLS AND INSTRUMENTATION SECTION SHALL BE FURNISHED BY THE CONTROL SUBCONTRACTOR AND INSTALLED BY THE PIPING CONTRACTOR. OTHER TYPES OF CONTROL DEVICES (DIFFERENTIAL PRESSURE SWITCHES, FLOW METERS, ETC.) SHALL ALSO BE INSTALLED BY THE PIPING CONTRACTOR. DEVICES, FITTINGS (TEES, WELDOLETS, THREADOLETS), LOCATIONS AND INSTALLATION DETAILS SHALL BE CLOSELY COORDINATED WITH THE CONTROLS SUBCONTRACTOR AND DEVICE MANUFACTURER'S INSTRUCTIONS.

AUTOMATIC CONTROL VALVES SHALL BE FURNISHED BY THE CONTROLS SUBCONTRACTOR FOR INSTALLATION BY THE HVAC PIPING CONTRACTOR. FLARE FITTINGS FOR FLARE END VALVES SHALL BE PROVIDED BY THE HVAC PIPING CONTRACTOR.

EXECUTION

PIPE AND TUBING SHALL BE CUT AND FABRICATED TO FIELD MEASUREMENTS AND RUN PARALLEL TO NORMAL BUILDING LINES. PIPE INTERIOR SHALL BE CLEANED OF FOREIGN MATTER AND BURRS BEFORE ERECTION OF PIPE.

SUPPORT PIPING FROM BUILDING STRUCTURE WITH RODS, ANGLES & CLAMPS ATTACHED TO STRUCTURE. HANG PIPING WITH CLEVIS HANGER OR ROLLER SUPPORTS. HANGERS SHALL BE INSTALLED ON CENTERS AS RECOMMENDED BY MANUFACTURER.

PIPING SHALL BE PITCHED FOR DRAINAGE. THE LOW POINTS SHALL BE FITTED WITH A 3/4" BALL DRAIN VALVE WITH HOSE THREAD ADAPTOR.

PROVIDE PIPING SLEEVES AT FLOORS, WALLS & ROOFS IN NEW CONSTRUCTION. EXISTING WALL TO BE SAW CUT TO PASS NEW PIPING.

PIPING SHALL NOT BE RUN ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS, NOR ABOVE THE ACCESS SPACE OF SUCH EQUIPMENT - NEC ARTICLE 384.

ANNULAR SPACE AROUND PIPING THRU ALL WALLS SHALL BE SEALED OFF WITH PERMANENT PLIABLE CAULKING OR APPROVED PATCHING SEALANT.

CLOSE OPEN ENDS OF PIPING DURING CONSTRUCTION.

CLEAN INTERIOR PIPING AFTER INSTALLATION BY FLUSHING WITH CLEAN POTABLE WATER TO CLEAR ALL INTERNAL DEBRIS.

TESTING

PIPING SHALL BE AIR TESTED AT 50% HIGHER THAN MAXIMUM SYSTEM OPERATING PRESSURE FOR EIGHT (8) HOURS BEFORE FLUSHING

IDENTIFICATION & MARKING

PLASTIC SNAP-ON PIPE MARKERS SHALL BE INSTALLED ON PIPING INDICATING SERVICE AND DIRECTION OF FLOW.

PIPING SYSTEM	TYPE
COIL CONDENSATE DRAINAGE	C3
REFRIGERANT PIPING - TUBE	C1
REFRIGERANT PIPING - COIL	C2 (3)

TYPE	DESCRIPTION	TYPE	DESCRIPTION
(3) C1 / C2	BRAZED COPPER REFER TO SPECIFICATION FOR INFORMATION	C3	SOLDERED COPPER TYPE "DWV" HARD COPPER ASTM B88 CAST DWV COPPER FITTINGS 95-5 SOLDER

PIPE INSULATION SCHEDULE

QUALITY ASSURANCE

PRODUCTS SHALL COMPLY WITH ASTM E84 FIRE, SMOKE RATINGS:
- INDOORS - FLAME SPREAD RATING OF 25 OR LESS, SMOKE DEVELOPED RATING OF 50 OR LESS.
- OUTDOORS - FLAME SPREAD RATING OF 75 OR LESS, SMOKE DEVELOPED RATING OF 150 OR LESS.

GREEN GUARD INDOOR AIR QUALITY CERTIFIED.

THICKNESSES SHALL COMPLY WITH MOST CURRENT VERSION OF ASHRAE 90.1.

PRODUCTS

REQUIREMENTS ARE FOR BOTH SUPPLY & RETURN SYSTEMS.

MANUFACTURERS:

FIBERGLASS - JOHNS MANVILLE, OWENS CORNING, KNAUF, MANSON INSULATION

CALCIUM SILICATE - PABCO, CALSILITE, JOHNS MANVILLE (IIG)

FLEXIBLE ELASTOMERIC - AEROFLEX, ARMACELL, RUBATEX

POLYISOCYANURATE - ITW

EXECUTION

INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.

COLD SERVICE PIPE INSULATION AND VAPOR BARRIER/JACKET TO BE CONTINUOUS THRU FLOOR AND WALL SLEEVES AT ALL PIPE DEVICES AND PUMP CASINGS.

INSULATION AND VAPOR BARRIER TO BE CONTINUOUS AT PIPE HANGERS AND SUPPORTS ON HORIZONTAL PIPING.

VERTICAL PIPE SUPPORTS SHALL ATTACH DIRECTLY TO PIPE. INSULATE SUPPORT AND OTHER SURFACES WITH FLEXIBLE CLOSED CELL INSULATION, SAME THICKNESS AS SYSTEM INSULATION ON COLD SERVICE PIPES TO PREVENT...

SYSTEM & SIZE	INSULATION THICKNESS	TYPE	LOCATION
REFRIGERANT LIQUID	0.75"	E1, E2	INTERIOR (E1) / EXTERIOR (E2)
REFRIGERANT HOT GAS	0.75"	E1, E2	INTERIOR (E1) / EXTERIOR (E2)
REFRIGERANT SUCTION	0.75"	E1, E2	INTERIOR (E1) / EXTERIOR (E2)
COOLING COIL CONDENSATE	0.5"	F1	INTERIOR

TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION
F1	OWENS CORNING #ALL SERVICE JACKET	- KNAUF #1000° PIPE, - JOHNS MANVILLE #MICRO-LOK HP	PREFORMED, TUBULAR, INORGANIC GLASS FIBER WITH RESIN BONDING. K=0.24 @ 100 DEG. F, 3.5 - 5.5 PCF. WHITE FSRK JACKET. LONGITUDINAL LAP, SELF-SEALING ADHESIVE. ELBOWS, TEES, VALVES, CAPS, ETC., WHITE ONE PIECE, PREMOLDED 25/50 0.20" PVC FITTING COVERS WITH HIGH DENSITY FIBERGLASS INSULATION INSERTS SAME THICKNESS, K=0.26 EQUAL TO ZESTON OR PROTO.
E1	AEROFLEX #AEROCEL EPDM	- ARMACELL - RUBATEX	FLEXIBLE, PRE-FORMED, CLOSED CELL, EPDM ELASTOMERIC TUBULAR INSULATION, OR SHEET INSULATION. K=0.25 @ 75 DEG. F. CLEAN PIPE SURFACE WITH DENATURED ALCOHOL PRIOR TO INSULATING.
E2	ARMACELL #AP ARMAFLEX FS	- AEROFLEX - RUBATEX	FLEXIBLE, PRE-FORMED, CLOSED CELL, ELASTOMERIC TUBULAR INSULATION. CLEAN PIPE SURFACE WITH DENATURED ALCOHOL PRIOR TO INSULATING. K=0.25 @ 75 DEG. F. 25/50 FLAME/SMOKE RATING. PROVIDE 0.20" ROLL ALLOY ALUMINUM EMBOSSED JACKET, SEAM SIDE DOWN WITH 0.50" WIDE, 0.015" S.S. STRAP AND SEALS EQUAL TO PABCO-CHILDERS METALS/GERRARD.

FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS
226 N. MIAMI AVE.
P.O. BOX 220
SIDNEY, OHIO 45365
(937) 492-6983
www.freytagnc.com
info@freytagnc.com

NEW CONSTRUCTION OF
FIRE STATIONS 2
CITY OF SIDNEY
2324 CAMPBELL ROAD SIDNEY, OHIO 45365

STATE OF OHIO
JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER

JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

REVISIONS

3 PLAN APPROVAL / BIDDING
ADDENDUM 3 01/21/25

COMM. NUMBER	DATE
2207.02	11/13/24
DRAWN BY	CHECKED BY
DJZ	JDZ

PIPING MATERIAL SCHEDULES

H0.3

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821 – Fax: (937) 223-3849
PROJECT # 23015

AIR DEVICE SCHEDULE

GENERAL NOTES

AIR DEVICES BASED ON PRICE.
EQUAL BY: REFER TO SPECIFICATION.

MAXIMUM SOUND LEVEL AT NC-25 AT INDICATED AIR FLOW.

BALANCING DAMPER GENERALLY PROVIDED IN DUCT, NOT AT DEVICE.

STANDARD WHITE BAKED ACRYLIC FINISH UNLESS NOTED OTHERWISE. PC-12 FINISH SHALL HAVE COLOR SELECTED BY ARCHITECT, FINAL PAINTING BY THE G.C.

DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED OR INDICATED ON DRAWINGS.

VERIFY CEILING TYPE AND PROVIDE APPROPRIATE MOUNTING FRAME WHERE REQUIRED.

TAG	DESCRIPTION	MODEL NO.	MATERIAL	ACCESSORIES	NOTES
S1 & S1A	2'X2' SQUARE PLAQUE DIFFUSER ROUND DUCT CONNECTION	SPD (ASPD)	STEEL (A) = ALUMINUM	INSULATED BACKPAN (STYLE 31)	
S2 & S2A	12"X12"SQUARE PLAQUE DIFFUSER ROUND DUCT CONNECTION	SPD (ASPD)	STEEL (A) = ALUMINUM	INSULATED BACKPAN (STYLE 31)	1
S3	12"X12"SQUARE PLAQUE DIFFUSER ROUND DUCT CONNECTION SURFACE MOUNTED	SPD	STEEL	SURFACE MOUNT FRAME INSULATED BACKPAN (STYLE 31)	1
S4	SPIRAL DUCT GRILLE DOUBLE DEFLECTION BLADES	SDGE	STEEL	BALANCING DAMPER AIR SCOUP	
R1	RETURN GRILLE DEVICE SIZE - 24" X 24" 45° HORIZONTAL BLADES 1/2" SPACING BLADES PARALLEL TO LONG DIMENSION	635	ALUMINUM	RETURN AIR CANOPY (RAC)	
R2	RETURN GRILLE DEVICE SIZE - 24" X 12" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM	RETURN AIR CANOPY (RAC)	
R3	RETURN GRILLE DEVICE SIZE - 12" X 12" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM	RETURN AIR CANOPY (RAC)	1
R4	RETURN GRILLE DEVICE SIZE - 24" X 12" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM	RETURN AIR CANOPY (RAC) SURFACE MOUNT FRAME	
E1	EXHAUST GRILLE DEVICE SIZE - 24" X 24" 45° HORIZONTAL BLADES 1/2" SPACING BLADES PARALLEL TO LONG DIMENSION	635	ALUMINUM		
E2	EXHAUST GRILLE DEVICE SIZE - 24" X 12" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM		
E3	EXHAUST GRILLE DEVICE SIZE - 12" X 12" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM		1
E4	EXHAUST GRILLE DEVICE SIZE - REFER TO DRAWING 45° HORIZONTAL BLADES 1/2" SPACING BLADES PARALLEL TO LONG DIMENSION	635	ALUMINUM	SURFACE MOUNT FRAME PC-12 BALANCING DAMPER	2
E5	EXHAUST GRILLE DEVICE SIZE - 12" X 12" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM	SURFACE MOUNT FRAME	

NOTES:

1. DEVICE TO BE SURFACE MOUNTED IN CENTER OF ACOUSTIC CEILING PAD FOR LAY-IN APPLICATION.
2. DEVICE SURFACE MOUNTED TO END OF DUCTWORK.

FAN & ROOF VENTILATOR SCHEDULE

3400

BASIS OF DESIGN - GREENHECK
REFER TO SPECIFICATIONS FOR OTHER MANUFACTURERS

VFD DRIVEN MOTORS SHALL BE PROVIDED WITH SHAFT GROUNDING RINGS, VFD DUTY MOTORS.

REFER TO INSTALLATION DETAILS.

TAG	SERVICE	DESCRIPTION	MODEL NUMBER & SIZE	ROOF OPENING (L x W)	CAPACITY		ELECTRICAL		ELECTRIC				DRIVE TYPE		MOUNTING					APPLICATION				ACCESSORIES & OPTIONS								CONTROLS					
					AIRFLOW (CFM)	E.S.P. (IN. W.C.)	MOTOR HP	V/PH	DISCONNECT WITH FAN	DISCONNECT BY E.C.	VFD	ECM	DIRECT	BELT	ROOF CURB	BASE/FLOOR	SUSPENDED, INLINE	WALL	CEILING	UL 762 GREASE RATED	UL 864 SMOKE CONTROL	HIGH TEMP (ABOVE 200°F)	EXPLOSION PROOF	VIBRATION ISOLATION	INSULATION HOUSING	THERMAL CONTROL	SLOPING ROOF CURB	HINGED ROOF CURB	CURB EXTENSION	POWDER COAT FINISH	EPOXY INTERIOR FINISH	DDC CONNECTION	MANUAL/ON/OFF SWITCH	DIAL SPEED CONTROLLER	HOA CONTROLLER	MOTORIZED DAMPER	GRAVITY DAMPER	NOTES
EF-1	APPARATUS BAY	INLINE CENTRIFUGAL	SQ-18-M2-VG	-	5,875	1	3	208 / 3	●			●	●				●							●										●	●		1, 5
EF-2	APPARATUS BAY	INLINE CENTRIFUGAL	SQ-90-VG	-	400	0.25	1/10	120 / 1	●			●	●				●							●										●	●		1
EF-3	STORM SHELTER	INLINE CENTRIFUGAL	SQ-97-VG	-	100	0.5	1/4	120 / 1	●			●	●				●							●										●	●		1
EF-4	TOG	INLINE CENTRIFUGAL	SQ-90-VG	12.5" x 12.5"	300	0.5	1/6	120 / 1	●			●	●				●							●										●	●		1 △3
EF-5	LIVING QUARTERS	INLINE CENTRIFUGAL	SQ-99-VG	12.5" x 12.5"	525	0.75	1/4	120 / 1	●			●	●				●							●										●	●		1
EF-6	HEAVY DECON	UPBLAST CENTRIFUGAL	CUE-080-VG	12.5" x 12.5"	225	0.5	1/10	120 / 1	●			●	●		●												●							●	●		1, 4 △3
EF-7	KITCHEN HOOD	UPBLAST CENTRIFUGAL	CUE-100HP-VG	15.5" x 15.5"	500	1.5	1/2	120 / 1	●			●	●		●												●							●	●		1, 4
IF-1	GEAR DRYER INTAKE	INLINE CENTRIFUGAL	SQ-95-VG	-	600	0.5	1/6	120 / 1	●			●	●				●							●										●	●		1
IH-1	SCBA	ROOF HOOD	CRSI-8	10.5" x 10.5"	250	-	-	-						●																					●		2, 3, 4

NOTES:

1. REFER TO HOA CONTROLLER DETAILS 1 & 2, H3.5 FOR INSTALLATION INFORMATION.
2. MAXIMUM 500 FPM THROAT
3. PROVIDE INSULATED, LOW VOLTAGE CONTROL DAMPER.
4. FAN CURB COLOR SELECTED BY ARCHITECT.
5. FAN SIZED FOR FUTURE EXPANSION.

△3

KITCHEN HOOD - KH-1 SCHEDULE

FIRE READY RESIDENTIAL FAN HOOD.
HOOD BY GREENHECK GRRS-W-36-T-G-O-N OR EQUAL BY DENLAR.
FEATURES:

- 500 CFM EXHAUST RATE.
- EXHAUST FAN POWERED THROUGH HOOD.
- EXHAUST COLLAR
- TOUCHSCREEN USER INTERFACE
- RECESSED LED LIGHTS
- 3/4" GAS SOLENOID VALVE
- RANGE GAS SHUT OFF
- REMOTE MANUAL PULL STATION
- INTEGRATED FIRE SUPPRESSION SYSTEM
- INTEGRATED SYSTEM CONTROLS (INTERLOCK WITH BAS)
- FIRE PIPING, GREASE FILTER
- DRY CONTACTS FOR EXTERNAL DOAS UNIT CONTROL.

HOOD TO INCLUDE TEMPERATURE SENSOR WHICH WILL AUTOMATICALLY START EF-7 (REMOTE KITCHEN EF) WHEN TEMPERATURE EXCEEDS 125° (ADJ)

HOOD POWERS EXHAUST FAN.
120V/1PH/8MCA/15MOCP

REFER TO DETAIL 3, SHEET H3.4 FOR INSTALLATION DIAGRAM.

RADIANT HEATER SCHEDULE - GAS

GENERAL NOTES

BASIS OF DESIGN: RE-VERBER-RAY
EQUAL BY: REFER TO SPECIFICATION

UNIT NO.	MODEL #	SERVICE	MOUNTING	MODULATING RANGE (MBH)	AMPS	VOLT/PH	DIMENSIONS	WEIGHT (LBS)	MOUNTING HEIGHT	NOTES
							L			
RH-1	MP3-25-80	APPARATUS BAY	CEILING SUSPENDED	65 - 80	5	120 / 1	25' - 5"	145	16'-6"	1, 2, 3
RH-2	MP3-25-80	APPARATUS BAY	CEILING SUSPENDED	65 - 80	5	120 / 1	25' - 5"	145	16'-6"	1, 3
RH-3	MP3-50-150	APPARATUS BAY	CEILING SUSPENDED	110 - 150	5	120 / 1	50' - 9"	235	16'-6"	1, 3
RH-4	MP3-50-150	APPARATUS BAY	CEILING SUSPENDED	110 - 150	5	120 / 1	50' - 9"	235	16'-6"	1, 3

NOTES:
1. PROVIDED WITH MICROPROCESSOR BASED THERMOSTAT, MODEL #TH-PC-M.
2. PROVIDE SIDE SHIELD TO PROJECT HEAT AWAY FROM WALL.

GAS FIRED UNIT HEATER SCHEDULE

GENERAL NOTES

BASIS OF DESIGN: MODINE

UNIT NO.	MODEL #	MOUNTING	(MBH) INPUT/OUTPUT	CFM	AMPS	VOLT/PH	DIMENSIONS			WEIGHT	NOTES
							L (IN.)	D (IN.)	H (IN.)		
GUH-1	PTC-215	CEILING SUSPENDED	215 / 202	3,865	9.15	120 / 1	42.5	22	31	265	1, 2, 3

NOTES:
1. CONDENSATE NEUTRALIZING KIT.
2. STANDARD CONVENIENCE PACKAGE WITH DISCONNECT SWITCH, CONDENSATE PUMP, AND LOW VOLTAGE THERMOSTAT CONTACTS.
3. STAINLESS STEEL HEAT EXCHANGER.

ELECTRIC UNIT HEATER SCHEDULE

GENERAL NOTES

BASIS OF DESIGN: RAYWALL

UNIT NO.	DESCRIPTION	MANUFACTURER / MODEL	MOUNTING	KW	MBH	AIR FLOW (CFM)	DIMENSIONS			VOLTAGE / PHASE	NOTES
							L (IN.)	D (IN.)	H (IN.)		
EUH-1	MIDSIZED FAN FORCED WALL HEATER	RAYWALL 305 SERIES #E3055T2DWB	WALL RECESSED	1.5	5	100	9-1/4"	3-5/8"	12-1/8"	120 / 1	2, 3
EUH-2	VERTICAL MOUNTED FAN FORCED UNIT HEATER	RAYWALL 5100 SERIES #F2F5105N	WALL HUNG	5	17.1	400	14-15/32"	6-1/2"	17-3/4"	208 / 3	1, 2, 3
EUH-3	FAN FORCED WALL HEATER	RAYWALL AFA # AFA840D	WALL RECESSED	4	13.6	175	14-1/8"	4"	19-1/2"	208 / 3	2, 3

NOTES:
1. WALL MOUTING BRACKET #A5105.
2. DISCONNECT SWITCH WITH UNIT.
3. INTEGRAL THERMOSTAT.

ELECTRIC DUCT REHEAT COIL SCHEDULE

GENERAL NOTES

BASIS OF DESIGN: RAYWALL

UNIT NO.	DESCRIPTION	MANUFACTURER / MODEL	DUCT WIDTH	DUCT HEIGHT	EAT (°F)	LAT (°F)	KW	AIR FLOW (CFM)	VOLT / PH	DIMENSIONS			WEIGHT (LBS)	NOTES
										L (IN.)	D (IN.)	H (IN.)		
DH-1	DUCT MOUNTED HEATER	RAYWALL # 8PD10-1810-1-3	18"	10"	0	50	15	600	208 / 3	11-1/2"	9-1/8"	11"	27	1, 2

NOTES:
1. INTEGRAL DISCONNECT SWITCH.
2. UNIT MOUNTED THERMOSTAT AND DUCT PROBE.

FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS
226 N. MIAMI AVE.
P.O. BOX 220
SIDNEY, OHIO 45365
(937) 492-6983
www.freytagnc.com
info@freytagnc.com

NEW CONSTRUCTION OF
FIRE STATIONS 2
CITY OF SIDNEY
2324 CAMPBELL ROAD SIDNEY, OHIO 45365

STATE OF OHIO
JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER

JEFFERY D. ZELINSKI LICENSE #63822
EXPIRATION DATE 12/31/2025

REVISIONS

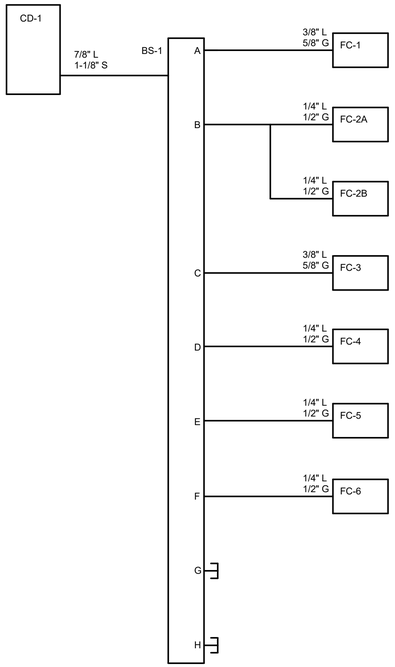
	PLAN APPROVAL / BIDDING	
3	ADDENDUM 3	01/21/25

COMM. NUMBER	DATE
2207.02	11/13/24
DRAWN BY	CHECKED BY
DJZ	JDZ

EQUIPMENT SCHEDULES

H0.4

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821 – Fax: (937) 223-3849
PROJECT # 23015



VRF SYSTEM - PIPING DIAGRAM

FAN COIL UNIT SCHEDULE

BASIS OF DESIGN: MITSUBISHI/TRANE
- COOLING CAPACITIES BASED ON 90°F DB / 74°F WB OUTDOOR AIR TEMP., HEATING BASED UPON -1°F OUTDOOR AIR TEMP.

UNIT	DESCRIPTION	MOUNTING	CONDENSING UNIT	BRANCH SELECTOR	CFM	E.S.P.	COOLING CAPACITY				HEATING CAPACITY		REFRIGERANT PIPING		ELECTRICAL			CABINET DIMENSIONS			UNIT WEIGHT (LBS)	MODEL NO.	NOTES
							SENS. MBH	TOTAL MBH	EAT (DB/WB)	LAT (DB/WB)	MBH	EAT / LAT	GAS	LIQUID	V/PH	MCA	MOCP	WIDTH [IN]	DEPTH [IN]	HEIGHT [IN]			
FC-1	MULTI-POSITION AHU	VERTICAL	CD-1	BS-1	735	0.8	17	21.6	75 / 62.4	52.6 / 52	26	70 / 104	5/8	3/8	208 / 1	3	15	17	21 - 5/8	50 - 1/4	113	TPVFYP024AM141A	1, 3
FC-2A	WALL-MOUNTED	WALL	CD-1	BS-1	297	-	8	10.9	75 / 62.4	52 / 52	12.9	70 / 107	1/2	1/4	208 / 1	0.2	15	30 - 7/16	9 - 11/32	11 - 25/32	25	TPKFYP012NLMU-E	1, 2, 3, 4, 5
FC-2B	WALL-MOUNTED	WALL	CD-1	BS-1	297	-	8	10.9	75 / 62.4	52 / 52	12.9	70 / 107	1/2	1/4	208 / 1	0.2	15	30 - 7/16	9 - 11/32	11 - 25/32	25	TPKFYP012NLMU-E	1, 2, 3, 4, 5
FC-3	MULTI-POSITION AHU	VERTICAL	CD-1	BS-1	735	0.8	17	21.6	75 / 62.4	52.6 / 52	26	70 / 104	5/8	3/8	208 / 1	3	15	17	21 - 5/8	50 - 1/4	113	TPVFYP024AM141A	1, 3
FC-4	MULTI-POSITION AHU	VERTICAL	CD-1	BS-1	585	0.8	13.5	16	75 / 62.4	52.7 / 52	19	70 / 101	1/2	1/4	208 / 1	3	15	17	21 - 5/8	50 - 1/4	113	TPVFYP018AM141A	1, 3
FC-5	MULTI-POSITION AHU	VERTICAL	CD-1	BS-1	400	0.8	9	10.8	75 / 62.4	52.2 / 52	13	70 / 101	1/2	1/4	208 / 1	3	15	17	21 - 5/8	50 - 1/4	113	TPVFYP012AM141A	1, 3
FC-6	CEILING CASSETTE	CEILING	CD-1	BS-1	335	-	8	10.8	75 / 62.4	52 / 52	13	70 / 101	1/2	1/4	208 / 1	0.3	15	22 - 7/16	22 - 7/16	8 - 3/16	36	TPLFYP012FM140A	1, 2, 3

NOTES:
1. PROVIDE FLUSH MOUNT REMOTE THERMOSTAT.
2. PROVIDE CONDENSATE PUMP.
3. DISCONNECT WITH UNIT.
4. PROVIDE WHITE, WALL COVER RACEWAY FOR REFRIGERANT AND CONDENSATE PIPING.
5. MOUNT 9'-0" A.F.F.

CONDENSING UNIT SCHEDULE

BASIS OF DESIGN: MITSUBISHI/TRANE
EQUAL BY: REFER TO SPECIFICATION
- COOLING CAPACITIES BASED ON 90°F DB / 74°F WB OUTDOOR AIR TEMP., HEATING BASED UPON -1°F OUTDOOR AIR TEMP.

UNIT	BRANCH SELECTOR SERVED	AREA SERVED	COOLING CAPACITY	HEATING CAPACITY	REFRIGERANT PIPING			MAX PIPING LENGTH FROM BS-1 [FT]	REFRIGERANT		ELECTRICAL			DIMENSIONS			UNIT WEIGHT (LBS)	MODEL NO.	NOTES
			MBH @ 91°F	MBH @ -1°F	GAS	LIQUID	H/L PRESSURE		TYPE	ADDITIONAL CHARGE (LBS)	V/PH	MCA	MOCP	WIDTH (IN.)	DEPTH (IN.)	HEIGHT (IN.)			
CD-1	BS-1	LIVING QUARTERS	131	149	1 - 1/8	7/8	NOTE 1	100	R-410a	36.2	208 / 3	54 / 54	90 / 90	98 - 1/2	29 - 3/8	71 - 5/8	1218	TURYH1443BN40AN	1, 2, 3, 4, 5

NOTES:
1. BASIS OF DESIGN UNIT DOES NOT REQUIRE A HOT GAS REHEAT PIPE FROM THE OUTDOOR UNIT TO BS-1. THE NON-BASIS OF DESIGN SYSTEM MAY REQUIRE THIS PIPE; HC SHALL PROVIDE ALL REQUIRED PIPING COMPONENTS IF A NON-BASIS OF DESIGN UNIT IS PROVIDED.
2. UNIT REQUIRES 2 POWER CONNECTIONS AND TWINNING KIT.
3. PROVIDE HAIL GUARD.
4. ADDITIONAL REFRIGERANT CHARGE BY H.C.
5. 12" SUPER STAND PROVIDED WITH UNIT.

BRANCH SELECTOR BOX SCHEDULE

BASIS OF DESIGN: MITSUBISHI/TRANE
EQUAL BY: REFER TO SPECIFICATION

UNIT	CONDENSING UNIT SERVED	AREA SERVED	# OF CIRCUITS	ELECTRICAL			CABINET DIMENSIONS			UNIT WEIGHT (LBS)	MODEL NO.	NOTES
				V/PH	MCA	MOCP	WIDTH (IN.)	DEPTH (IN.)	HEIGHT (IN.)			
BS-1	CD-1	LIVING QUARTERS	8	208 / 1	0.8	15	35 - 7/8	21 - 1/2	9-7/8	106	TCMBM0108JA11N4	

AIR TERMINAL UNITS SCHEDULE

GENERAL NOTES

UNITS ARE VARIABLE AIR VOLUME

CV - CONSTANT VOLUME
VV - VARIABLE VOLUME

DESIGN BASIS- PRICE MODLE SDV

UNITS WITH REHEAT SHALL HAVE SCR CONTROL & DISCONNECT SWITCH

HEATING CONDITIONS BASED ON 55 DEG F. EAT, 95 DEG F. LAT.
COIL PRESSURE DROP: 0.5" W.G.

UNIT. NO.	INLET SIZE	TYPE	MIN. AIRFLOW [CFM]	MAX. AIRFLOW [CFM]	kW	VOLTAGE / PHASE	SEE NOTES
1-1	5	CV	225	225	2.8	208 / 3	
1-2	5	CV	85	85	1.1	208 / 3	
1-3	7	VV	0	500	6.3	208 / 3	1
1-4	10	CV	825	825	-	-	
1-5	6	CV	300	300	3.8	208 / 3	

NOTES:
1. UNIT SERVES KITCHEN HOOD. REFER TO CONTROL DIAGRAM FOR ADDITIONAL INFORMATION.

DOAS UNIT SCHEDULE

UNIT TAG	DOAS-1
BASIS OF DESIGN	MITSUBISHI
SERVICE	LIVING QUARTERS
DESCRIPTION	PACKAGED DOAS UNIT
MOUNTING	GROUND
EVAPORATOR FAN	
AIRFLOW (CFM)	1,935
ESP. (" W.G.)	1.5"
FAN TYPE	DIRECT DRIVE
VARIABLE FREQUENCY DRIVE	YES
DISCHARGE LOCATION	SIDE
FILTER	
PRE-FILTER	2" MERV 8
FINAL FILTER	4" MERV 13
COOLING - BASED ON 90 / 74 (DB/WB) O.A.	
TOTAL (MBH)	131
SENSIBLE (MBH)	76
ENTER. AIR (DB/WB)	90 / 74
SUPPLY AIR (DB/WB)	54.4 / 54.3
ISMRE	8.4
HOT GAS REHEAT	
TOTAL (MBH)	67
ENTER. AIR (DB/WB)	54.4 / 54.3
LEAV. AIR (DB)	86.2
HEATING - REQ. NATURAL GAS INPUT PRESSURE: 4.5" W.C. MIN./14" W.C. MAX. -BASED ON 0ºF O.A.	
GAS INPUT (MBH)	200
OUTPUT (MBH)	162
ENTER. AIR DB	0
SUPPLY AIR (DB)	77.5
ELECTRIC	
MCA	53.8
MOCP	60
VOLTAGE/HZ/PHASE	208 / 3
PHYSICAL UNIT DATA	
LENGTH (IN.)	98.6"
WIDTH (IN.)	86.4"
HEIGHT - NOT INCLUDING CURB (IN.)	69.5"
MAX UNIT OP. WEIGHT (LBS)	2,172
UNIT OPTIONS	
ECONOMIZER HOOD	
MIN. O.A. HOOD	•
CONSTANT AIR VOLUME	
VARIABLE AIR VOLUME	•
SINGLE SPEED / STAGED COMPRESSORS	
DIGITAL SCROLL COMPRESSORS	
INVERTER DUTY COMPRESSOR	•
STAINLESS STEEL HEAT EXCHANGER	•
RETURN AIR SMOKE DETECTOR	
CO2 SENSOR D.V.C.	
14" ROOF CURB ADAPTER	
POWERED RELIEF FAN	
BAROMETRIC GRAVITY RELIEF DAMPER	
DISCHARGE AIR TEMP. CONTROL	•

NOTES:

1. SEE ROOFTOP UNIT MOUNTING DETAIL, DETAIL 1, SHEET H3.6.
2. COOLING COIL CONDENSATE TRAP PER DETAIL 4, SHEET H3.1
3. REFER TO H4.1 FOR UNIT CONTROLS.

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821 – Fax: (937) 223-3849
PROJECT # 23015

FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS
226 N. MIAMI AVE.
P.O. BOX 220
SIDNEY, OHIO 45365
(937) 492-6983
www.freytagnc.com
info@freytagnc.com

NEW CONSTRUCTION OF
FIRE STATIONS 2
CITY OF SIDNEY
SIDNEY, OHIO 45365
2324 CAMPBELL ROAD

STATE OF OHIO
JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER

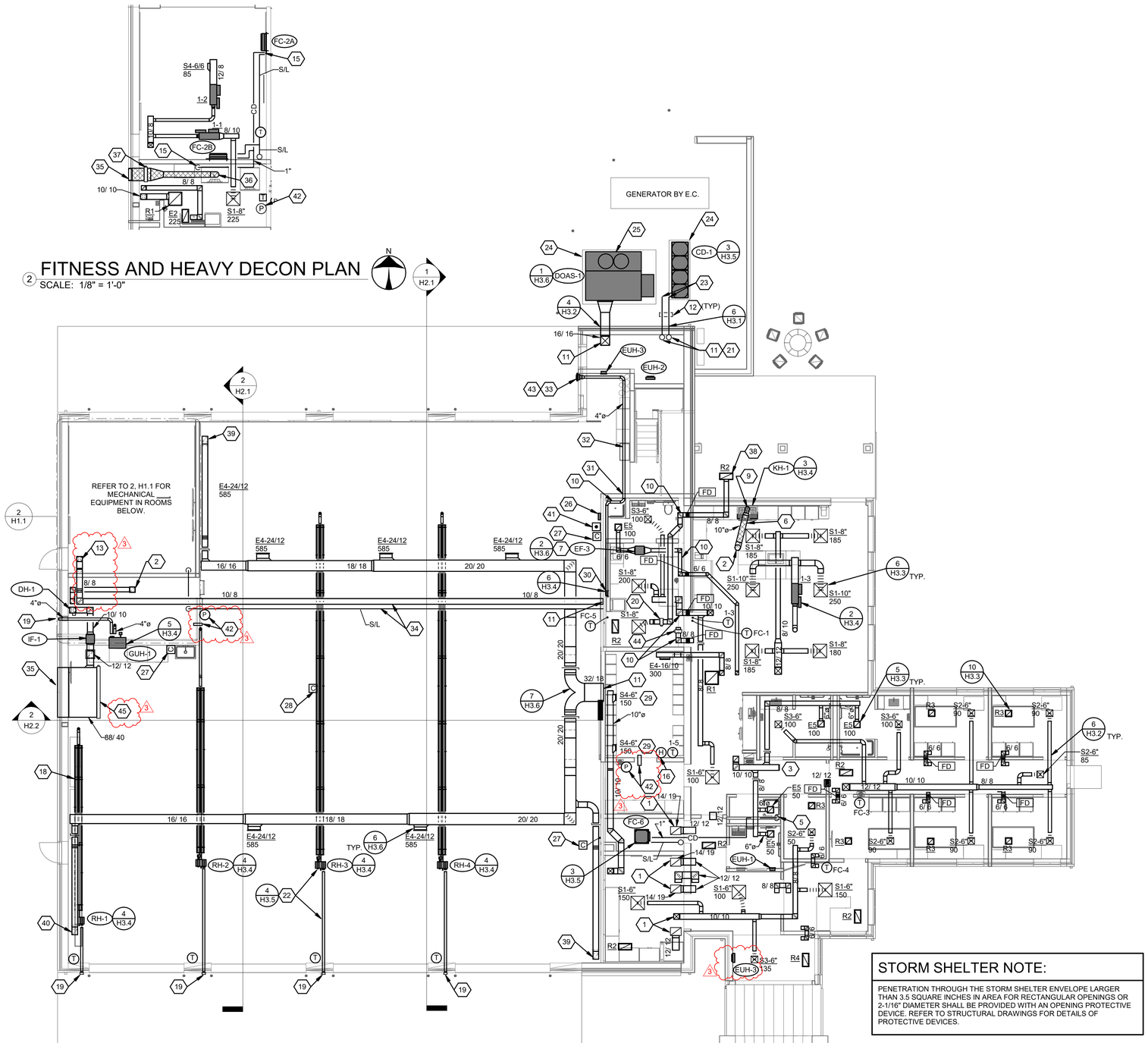
JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE 12/31/2025

REVISIONS
3 PLAN APPROVAL / BIDDING ADDENDUM 3 01/21/25

COMM. NUMBER	DATE
2207.02	11/13/24
DRAWN BY	CHECKED BY
DJZ	JDZ

VRF SYSTEM SCHEDULE

H0.5



2 FITNESS AND HEAVY DECON PLAN

SCALE: 1/8" = 1'-0"

FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

CONSTRUCTION NOTES

1. DUCT UP TO MEZZANINE.
2. DUCT UP TO EQUIPMENT ON ROOF.
3. CAP FOR FUTURE EXTENSION.
4. FIRE DAMPER NOT REQUIRED PER OBC.
5. ROUTE CONDENSATE DRAIN TO MOP SINK. TERMINATE DRAIN IN MOP SINK.
6. STAINLESS STEEL EXHAUST DUCT. PROVIDE ACCESS DOOR IN DUCT FOR CLEANING. SLOPE HORIZONTAL RUN BACK TOWARDS HOOD 1/4" PER 1'.
7. STORM SHELTER EXHAUST FAN POWERED THROUGH LIGHT UPS. FAN SHALL RUN FOR A MINIMUM OF 2 HOURS ON UPS POWER.
8. DUCT OPEN TO PLENUM.
9. COORDINATE DUCTWORK CONNECTION TO HOOD THROUGH CABINETS ABOVE HOOD. CAREFULLY COORDINATE ALL DUCT PENETRATIONS.
10. DUCT OFFSETS INSIDE OF STORM SHELTER. COORDINATE OFFSET LENGTH WITH PROTECTIVE SHROUD PROVIDED BY G.C. REFER TO STRUCTURAL DRAWINGS FOR SHROUD INSTALLATION INFORMATION.
11. REFER TO H1.2 FOR CONTINUATION.
12. SUPPORT REFRIGERANT PIPING ON GRADE AS REQUIRED.
13. DUCT DROPS INTO FITNESS ROOM.
14. PROVIDE WALL COVER FOR PIPING.
15. TERMINATE CONDENSATE DRAIN AT FLOOR DRAIN IN HEAVY DECON ROOM.
16. DOAS-1 HUMIDISTAT.
17. DUCT MOUNTED DIFFERENTIAL PRESSURE SENSOR.
18. PROVIDE SIDE SHIELD ON RADIANT HEATER TO DEFLECT HEAT AWARY FROM WALL.
19. INTAKE HOOD. PAINT TO MATCH EXTERIOR WALL COLOR.
20. PROVIDE AUTOMATIC CONTROL DAMPER. DAMPER SHALL BE INSULATED AND HAVE BLADE SEALS. EQUAL TO GREENHECK #ICD-45. PROVIDE TWO POSITION, 120V ACTUATOR; POWERED CLOSED, SPRING RETURN, FAIL OPEN.
21. COORDINATE PIPING RUN SUCH THAT PIPE IS NOT OVERHEAD OF ELECTRIC GEAR. PER NFPA 70, PIPING SHALL NOT BE RUN OVERHEAD OF ELECTRICAL GEAR. MAINTAIN ALL REQUIRED CLEARANCES.
22. REFER TO DETAIL FOR GENERAL APPARATUS BAY EQUIPMENT INSTALLATION COORDINATION.
23. CONNECT REFRIGERANT PIPING TO CONDENSING UNIT.
24. 4" CONCRETE EQUIPMENT PAD BY G.C. H.C. SHALL COORDINATE FINAL EQUIPMENT SIZE WITH G.C. PRIOR TO PAD INSTALLATION.
25. PROVIDE COOLING COIL CONDENSATE TRAP FOR DOAS-1. PROVIDE CONCRETE SPLASH BLOCK BELOW CONDENSATE DRAIN OUTLET.
26. CO/NO$_2$ DETECTION SYSTEM CENTRAL CONTROLLER. MOUNT 4' A.F.F.
27. CO/NO$_2$ DETECTOR. MOUNT 4' A.F.F.
28. CO/NO$_2$ DETECTOR. MOUNT TO ROOF GIRDER TRUSS.
29. INSTALL AIR DEVICE AT 45° DOWN FROM HORIZONTAL SUCH THAT AIR BLOWS DOWN INTO SPACE.
30. PROVIDE STAINLESS STEEL ESCUTCHEON AT DUCT PENETRATION THROUGH CEILING.
31. FIRE DAMPER NOT PERMITTED IN DRYER DUCT PER OMC 504.2. SEAL PENETRATION WITH FIRE STOPPING SYSTEM.
32. MOUNT DUCT TO SIDEWALL.
33. EXTERIOR DRYER OUTLET. MOUNT 10'-6" MIN. A.F.F.
34. REFRIGERANT PIPE AND DUCTWORK RUN TIGHT TO DECK.
35. LOUVER PROVIDED BY G.C., CONNECT DUCTWORK TO DUCT FLANGE.
36. STAINLESS STEEL EXHAUST DUCT CONNECTION TO GEAR DRYER. PROVIDE STAINLESS STEEL ESCUTCHEON AROUND DUCT CEILING PENETRATION. GEAR DRYER FURNISHED BY OWNER.
37. LOW VOLTAGE AUTOMATIC CONTROL DAMPER PROVIDED BY T.C., REFER TO GEAR DRYER FAN CONTROL DIAGRAM.
38. MOUNT GRILLE FLUSH IN METAL CEILING OF PATIO CANOPY. REFER TO ARCHITECTS EXTERIOR WALL PENETRATION DETAILS. PROVIDE GRILLE WITH PRIME COAT OF PAINT. FINAL PAINTING SHALL BE BY THE G.C. TO MATCH CEILNIG COLOR.
39. LOW EXHAUST INTAKE. TERMINATE DUCT 1' A.F.F. OPEN TO APPARATUS BAY. BALANCE DAMPER TO 585 CFM.
40. LOW EXHAUST INTAKE. COORDINATE TERMINATION HEIGHT WITH WATER SERVICE. TERMINATE DUCT OPEN TO APPARATUS BAY. BALANCE DAMPER TO 585 CFM.
41. EF-1 MANUAL PUSHBUTTON.
42. DIFFERENTIAL PRESSURE MONITOR. REFER TO DETAIL 11, H3.3.
43. JENCO FAN #SWF-150X. PROVIDE WITH PRESSURE TRANSDUCER AND CURRENT SENSOR ACCESSORIES. PAINT FAN TO MATCH EXTERIOR WALL COLOR, COORDINATE WITH G.C.
44. PROVIDE AUTOMATIC CONTROL DAMPER. DAMPER SHALL BE INSULATED AND HAVE BLADE SEALS, EQUAL TO GREENHECK #ICD-45. PROVIDE TWO POSITION, 120V ACTUATOR, POWERED OPEN, SPRING RETURN, FAIL CLOSED.
45. TWO-POSITION CONTROL DAMPER. DAMPER SHALL BE INSULATED AND HAVE BLADE SEALS, EQUAL TO GREENHECK #ICD-45.

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1ST FLOOR PLAN

H1.1

SCALE: 1/8"=1'-0"

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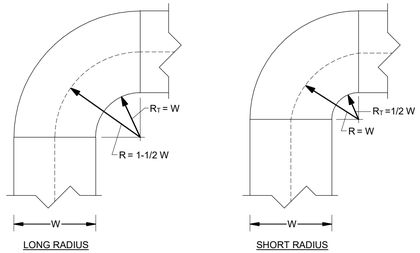
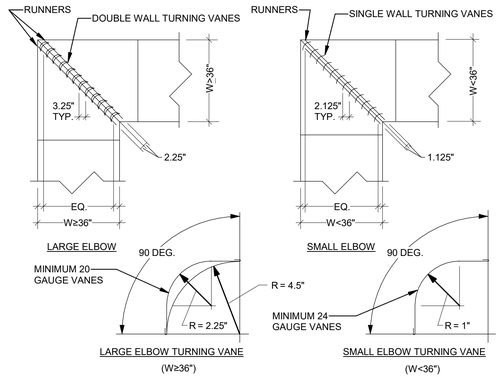


NOTES:
1. USE ONLY LONG RADIUS ELBOWS ON KITCHEN HOOD AND DISHWASHER HOOD EXHAUST DUCTWORK.
2. USE LONG RADIUS ELBOWS ON ALL DUCTWORK SYSTEMS WHERE POSSIBLE OR UNLESS OTHERWISE INDICATED.
3. ONLY WHEN IT IS IMPOSSIBLE TO USE LONG RADIUS ELBOWS, USE LARGEST POSSIBLE RADIUS WITH A MINIMUM RADIUS EQUAL TO THAT OF A SHORT RADIUS ELBOW.

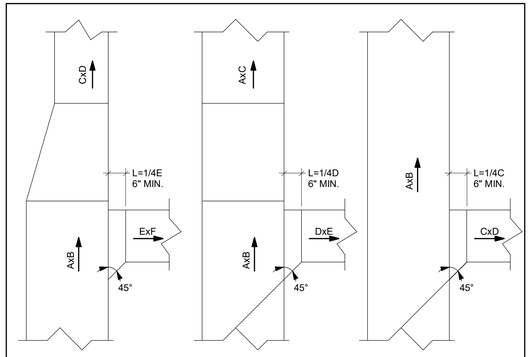
NOTE:
ELBOWS WITH 90 DEGREE SQUARE ON INSIDE RADIUS ARE NOT ACCEPTABLE.

1 RECTANGULAR 90° RADIUS ELBOW
N.T.S.



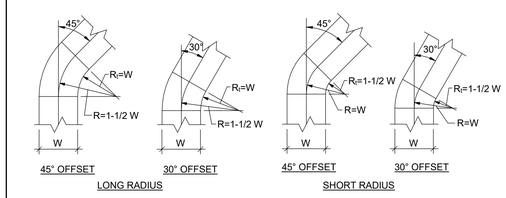
NOTES:
1. ALL VANES SHALL BE SECURE AND STABLE IN OPERATING POSITION.
2. VANES SHALL BE SECURELY FASTENED TO RUNNERS.
3. INSTALL VANES IN SECTIONS OR USE TIE RODS TO LIMIT THE UNBRACED LENGTH TO 60".
4. VANES ARE NOT TO HAVE TRAILING EDGES.

2 RECTANGULAR 90° MITERED ELBOW
N.T.S.



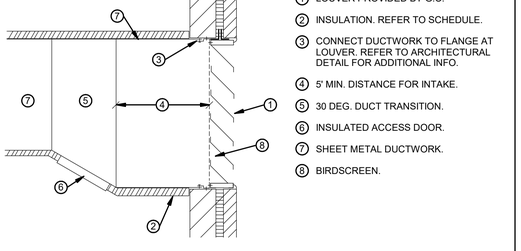
NOTES:
1. DIMENSIONS A, B, C, D, E, AND F AS INDICATED ON THE DRAWINGS.
2. TRANSITIONS MAY BE FLAT ON TOP, FLAT ON BOTTOM OR CONCENTRIC.
3. SAME FOR RETURN AND EXHAUST DUCTS EXCEPT AIRFLOW IS REVERSED.
4. TAP HEIGHT DIMENSION SHOULD BE 2" SMALLER THAN MAIN DUCT HEIGHT.

3 RECTANGULAR 90° SIDE TAP
N.T.S.



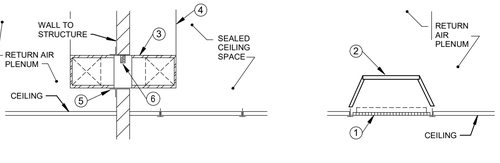
NOTES:
1. USE ONLY LONG RADIUS ELBOWS ON KITCHEN HOOD AND DISHWASHER HOOD EXHAUST DUCTWORK.
2. USE LONG RADIUS ELBOWS ON ALL DUCTWORK SYSTEMS WHERE POSSIBLE OR UNLESS OTHERWISE INDICATED.
3. ONLY WHEN IT IS IMPOSSIBLE TO USE LONG RADIUS ELBOWS, USE LARGEST POSSIBLE RADIUS WITH A MINIMUM RADIUS EQUAL TO THAT OF A SHORT RADIUS ELBOW.

4 RECTANGULAR 45° & 30° RADIUS ELBOW
N.T.S.



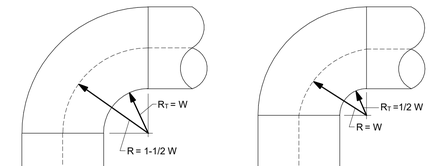
1. PLENUM - SIZE TO MATCH GRILLE. PAINT INTERIOR OF PLENUM FLAT BLACK.
2. EXHAUST/RETURN GRILLE FRAME TO MATCH CEILING CONDITION.
3. SPIN-IN FITTING WITH BALANCING DAMPER, USE FOR ALL ACCESSIBLE CEILINGS.
4. PROVIDE REMOTE BALANCING DAMPER IN BRANCH DUCT ABOVE ACCESSIBLE CEILING FOR EACH GRILLE WHERE GRILLE IS INSTALLED ABOVE INACCESSIBLE CEILING.
5. PROVIDE BALANCING DAMPER AT DEVICE ONLY WHERE DUCT MOUNTED DAMPER CANNOT BE PROVIDED DUE TO INACCESSIBLE CEILING.
6. FLEXIBLE DUCT ACCEPTABLE ABOVE ACCESSIBLE CEILING ONLY. MAX. 1 FT., REFER TO CEILING DIFFUSER DETAIL FOR INSTALLATION REQUIREMENTS.
7. SHEETMETAL DUCT.
8. SUPPORT PLENUM FROM STRUCTURE WITH DUCT STRAP HANGERS.
9. FASTEN SHEETMETAL PLENUM OR DUCT TO AIR DEVICE, EACH SIDE.
10. DUCT STRAP HANGER.
11. VIEWABLE PORTION OF DUCT INTERIOR TO BE PAINTED FLAT BLACK.

5 EXHAUST/RETURN GRILLE - DUCTED
N.T.S.



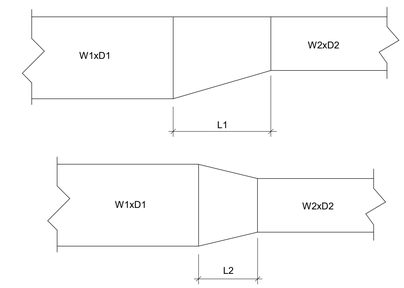
1. FLEXIBLE DUCT SAME DIAMETER AS DIFFUSER INLET (ABOVE ACCESSIBLE CEILING ONLY USE SHEETMETAL ONLY ABOVE INACCESSIBLE CEILING). 5 FT. MAXIMUM LENGTH. STRETCH TO MINIMUM 90% OF FULLY EXTENDED LENGTH. ADDITIONAL HANGER REQUIRED IF DUCT LENGTH EXCEEDS 4 FT.
2. SPIN-IN BRANCH TAP FITTING, STRAIGHT SIDE, WITH MANUAL DAMPER. DAMPER SHAFT IN HORIZONTAL. INTEGRAL INSULATION GUARD SLEEVE REQUIRED FOR TAP FITTING TO MAIN DUCT WITH INTERNAL INSULATION.
3. DUCT STRAP HANGER. ATTACH TO STRUCTURE. PER SMACNA.
4. 90 DEGREE FLEXIBLE ELBOW SUPPORT BY FLEXRIGHT, FLEXFLOW OR SMARTFLOW. PROVIDE WITH DRAWBANDS, UL-2043 RATING.
5. SHEETMETAL DUCT, SAME DIAMETER AS DIFFUSER INLET. LONGITUDINAL OR SPIRAL LOCK SEAM, 0.50" S.P. CONSTRUCTION. PROVIDE EXTERIOR INSULATION, 1.5" THICKNESS, 0.75" DENSITY FIBERGLASS WITH FOIL/KRAFT PAPER JACKET.

6 CEILING DIFFUSER
N.T.S.



NOTES:
1. DIMENSION D AS SHOWN ON THE DRAWINGS.
2. USE LONG RADIUS ELBOWS ON ALL DUCTWORK SYSTEMS WHERE POSSIBLE OR UNLESS OTHERWISE INDICATED.
3. ONLY WHEN IT IS IMPOSSIBLE TO USE LONG RADIUS ELBOWS, USE LARGEST POSSIBLE RADIUS WITH A MINIMUM RADIUS EQUAL TO THAT OF A SHORT RADIUS ELBOW.

7 ROUND 90° RADIUS ELBOW
N.T.S.



NOTES:
1. DIMENSIONS W1, W2, D1, AND D2 AS INDICATED ON THE DRAWINGS.
2. FOR LOW VELOCITY DUCTWORK (1800 FPM OR LESS)
   L1 = 4 x (W1-W2) OR 4 x (D1-D2) WHICHEVER IS GREATER.
   L2 = 2 x (W1-W2) OR 2 x (D1-D2) WHICHEVER IS GREATER.
3. FOR MEDIUM AND HIGH VELOCITY DUCTWORK (OVER 1800 FPM)
   L1 = 7 x (W1-W2) OR 7 x (D1-D2) WHICHEVER IS GREATER.
   L2 = 3.5 x (W1-W2) OR 3.5 x (D1-D2) WHICHEVER IS GREATER.

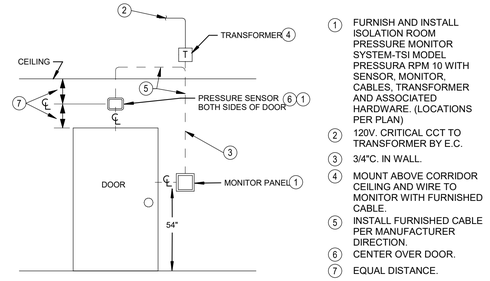
8 RECTANGULAR TRANSITION
N.T.S.

1. LOUVER PROVIDED BY G.C.
2. INSULATION. REFER TO SCHEDULE.
3. CONNECT DUCTWORK TO FLANGE AT LOUVER. REFER TO ARCHITECTURAL DETAIL FOR ADDITIONAL INFO.
4. 5' MIN. DISTANCE FOR INTAKE.
5. 30 DEG. DUCT TRANSITION.
6. INSULATED ACCESS DOOR.
7. SHEET METAL DUCTWORK.
8. BIRDSCREEN.

9 WALL LOUVER
N.T.S.

1. RETURN GRILLE.
2. RETURN AIR CANOPY.
3. TRANSFER AIR DUCT THROUGH FULL HEIGHT WALL. PROVIDE 1/2" INTERNAL DUCT LINER. REFER TO FLOOR PLAN FOR DUCT SIZE.
4. SUPPORT PLENUM FROM STRUCTURE WITH DUCT STRAP HANGERS.
5. FRAME OPENING THROUGH WALL AS REQUIRED AND SEAL WALL PENETRATION SMOKE TIGHT.
6. FIRE DAMPER WHERE INDICATED ON PLAN.

10 TRANSFER AIR GRILLE/PLENUM
N.T.S.



1. FURNISH AND INSTALL ISOLATION ROOM PRESSURE MONITOR SYSTEM-TSI MODEL PRESSURA RPM 10 WITH SENSOR, MONITOR, CABLES, TRANSFORMER AND ASSOCIATED HARDWARE. (LOCATIONS PER PLAN)
2. 120V. CRITICAL CCT TO TRANSFORMER BY E.C.
3. 3/4"C. IN WALL.
4. MOUNT ABOVE CORRIDOR CEILING AND WIRE TO MONITOR WITH FURNISHED CABLE.
5. INSTALL FURNISHED CABLE PER MANUFACTURER DIRECTION.
6. CENTER OVER DOOR.
7. EQUAL DISTANCE.

11 ROOM PRESSURE MONITOR
N.T.S.

3

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DETAILS

H3.3

NAUMAN & ZELINSKI LLC.
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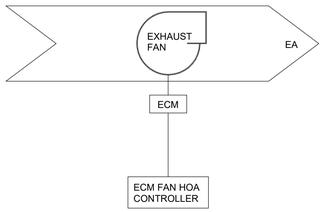
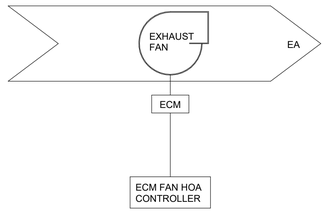


SEQUENCE OF OPERATION

A. FAN OPERATION

THE EXHAUST FAN SHALL RUN CONTINUOUSLY.

1 EF-2 CONTROLS — APPARATUS BAY MINIMUM

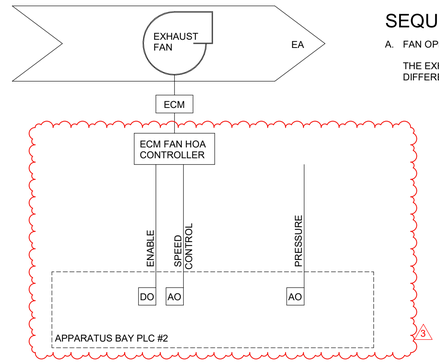


SEQUENCE OF OPERATION

A. FAN OPERATION

THE EXHAUST FAN SHALL RUN CONTINUOUSLY.

2 EF-3 CONTROLS — STORM SHELTER EXHAUST

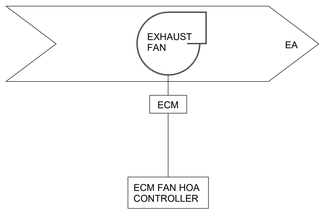


SEQUENCE OF OPERATION

A. FAN OPERATION

THE EXHAUST FAN SHALL MAINTAIN A ROOM DIFFERENTIAL PRESSURE OF 0.01" W.C. (ADJ.). 3

3 EF-4 CONTROLS — TOG EXHAUST

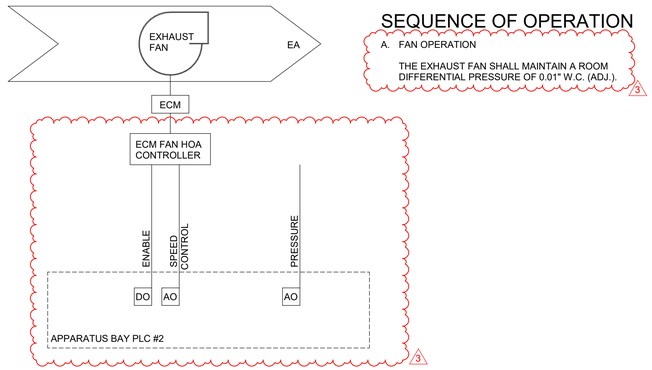


SEQUENCE OF OPERATION

A. FAN OPERATION

THE EXHAUST FAN SHALL RUN CONTINUOUSLY.

4 EF-5 CONTROLS — GENERAL EXHAUST

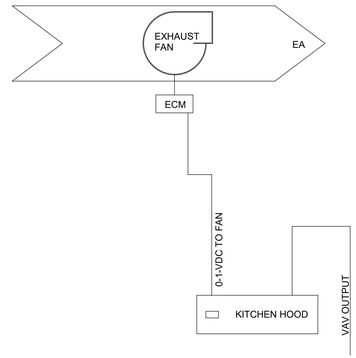


SEQUENCE OF OPERATION

A. FAN OPERATION

THE EXHAUST FAN SHALL MAINTAIN A ROOM DIFFERENTIAL PRESSURE OF 0.01" W.C. (ADJ.). 3

5 EF-6 CONTROLS — HEAVY DECON



SEQUENCE OF OPERATION

A. FAN OPERATION

THE KITCHEN HOOD CONTROLS EXHAUST FAN EF-7 AUTOMATICALLY. THE HOOD PROVIDES ALL SPEED CONTROL TO START/STOP THE EXHAUST FAN. MANUAL USER INPUT IS ALSO PROVIDED ON THE KITCHEN HOOD CONTROLLER.

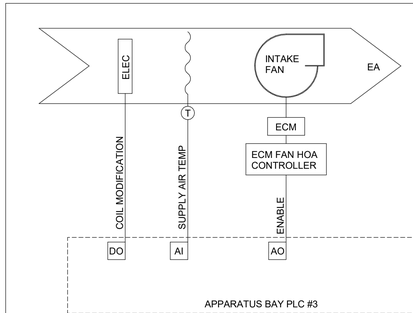
DURING NORMAL OPERATION, UPON A RISE IN TEMPERATURE AT THE HOOD >125°F, THE HOOD SHALL START THE FAN AND MODULATE THE FAN TO ITS SETPOINT. THE FAN SHALL TURN OFF UPON A FALL IN TEMPERATURE TO 100°F. THE MINIMUM RUNTIME SHALL BE 30 MIN. (ADJ.)

WIRING BETWEEN THE HOOD AND FAN BY THE T.C.

B. VAV OPERATION:

UPON ACTIVATION OF THE EXHAUST FAN, VAV 1-3 SHALL OPERATE TO PROVIDE MAKE-UP AIR. REFER TO DOAS UNIT AND AIR TERMINAL UNIT CONTROL DIAGRAMS FOR ADDITIONAL INFORMATION.

6 EF-7 CONTROLS — KITCHEN HOOD



SEQUENCE OF OPERATION

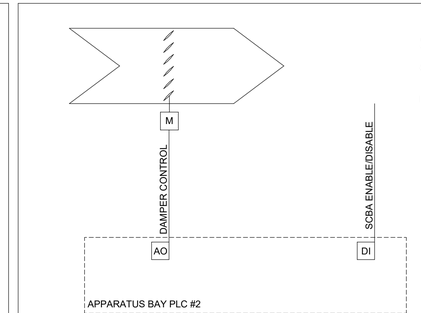
A. FAN OPERATION

THE INTAKE FAN RUN WHEN THE GEAR DRYER IS PERFORMING A DRYING CYCLE.

THE T.C. SHALL PROVIDE A LOW VOLTAGE CONNECTION TO THE DRY CONTACT LOCATED ON THE GEAR DRYER. COORDINATE REQUIREMENTS WITH MANUFACTURER.

B. WHEN THE INTAKE FAN IS ENABLED, THE ELECTRIC HEATING COIL SHALL MODULATE TO MAINTAIN A DISCHARGE AIR SETPOINT OF 50 DEG. F. (ADJ.)

7 IF-1 CONTROLS — INTAKE FAN



SEQUENCE OF OPERATION

A. WHEN THE SCBA COMPRESSOR IS ACTIVE, THE INTAKE DAMPER SHALL OPEN.

B. THE DAMPER SHALL CLOSE WHEN THE SCBA COMPRESSOR IS OFF.

8 SCBA INTAKE

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PROJECT # 23015

Branch Panel: A

LOCATION: | **MOUNTING:** Surface | **A.I.C RATING**
SUPPLY FROM: MDP | **ENCLOSURE:** Type 1 | **MAINS TYPE:** M.L.O
VOLTAGE: 120/208 Wye-3-4 | **MCB RATING:** NA | **MAINS RATING:** 225 A

CKT	Description	Trip	Poles	Note	A		B		C		Note	Poles	Trip	Description	CKT
1	Lighting	20 A	1		1485 VA	90 VA						1	20 A	Lighting	2
3	Lighting	20 A	1				1000 VA	1000 VA				1	20 A	Lighting	4
5	Service Cord	20 A	1	1					500 VA	500 VA	1	1	20 A	Service Cord	6
7	Service Cord	20 A	1	1	500 VA	500 VA					1	1	20 A	Service Cord	8
9	Service Cord	20 A	1	1			1000 VA	1000 VA			1	1	20 A	Service Cord	10
11	Service Cord	20 A	1	1					500 VA	1600 VA		1	20 A	OH DOOR 1	12
13	OH DOOR 2	20 A	1		1600 VA	1600 VA						1	20 A	OH DOOR 3	14
15	OH DOOR 4	20 A	1				1600 VA	1600 VA				1	20 A	OH DOOR 5	16
17	OH DOOR 6	20 A	1						1600 VA	1600 VA		1	20 A	OH DOOR 7	18
19	App Bay 122	20 A	1		540 VA	900 VA						1	20 A	App Bay 122	20
21	App Bay 122	20 A	1				720 VA	900 VA				1	20 A	App Bay 122	22
23	App Bay 122	20 A	1						900 VA	400 VA		1	20 A	CLG FANS	24
25	CLG FANS	20 A	1		400 VA	1000 VA						1	20 A	GEN. CHRG.	26
27	SOFFITT REC.	20 A	1				180 VA	180 VA				1	20 A	Receptacles	28
29	CO/NOX Sys.	20 A	1						1000 VA	360 VA		1	20 A	Weight Rm.124	30
31	Drying Cabinet	20 A	1		180 VA	540 VA						1	20 A	Weight Rm.124	32
33	Decon 123	20 A	1				360 VA	1000 VA				1	20 A	GEN. HTR.	34
35	Spare	20 A	1						0 VA	1400 VA		1	20 A	RAD. HTR.	36
37	Spare	20 A	1		0 VA	1400 VA						1	20 A	RAD. HTR.	38
39	FC-2A/2B	15 A	2				300 VA	0 VA				1	20 A	Spare	40
41	--	--	--						300 VA	0 VA		1	20 A	Spare	42
43	DH-1	20 A	3		5000 VA	0 VA						3	30 A	TOG WASH	44
45	--	--	--				5000 VA	0 VA				--	--	--	46
47	--	--	--						5000 VA	0 VA		--	--	--	48
49	ATU1-1	20 A	3		933 VA	367 VA						3	20 A	ATU1-2	50
51	--	--	--				933 VA	367 VA				--	--	--	52
53	--	--	--						933 VA	367 VA		--	--	--	54
		Total Load:			17035 VA		17140 VA		16960 VA						

NOTES:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	1575 VA	125.00%	1969 VA		
Motor	35300 VA	80.00%	28240 VA	**Total Conn. Load:**	51135 VA
Power	4000 VA	70.00%	2800 VA	**Total Est. Demand:**	40191 VA
Receptacles	10260 VA	70.00%	7182 VA	**Total Conn. Current:**	142 A
				Total Est. Demand...	112 A

Branch Panel: C

LOCATION: | **MOUNTING:** Flush | **A.I.C RATING**
SUPPLY FROM: MDP | **ENCLOSURE:** Type 1 | **MAINS TYPE:** M.L.O
VOLTAGE: 120/208 Wye-3-4 | **MCB RATING:** NA | **MAINS RATING:** 225 A

CKT	Description	Trip	Poles	Note	A		B		C		Note	Poles	Trip	Description	CKT
1	Lighting	20 A	1		699 VA	317 VA						1	20 A	Lighting	2
3	Lighting	20 A	1				688 VA	1260 VA				1	20 A	Toilet 107.9	4
5	Kitchen 114	20 A	1	1					1780 VA	1080 VA	1	1	20 A	Kitchen 114	6
7	Kitchen 114	20 A	1		180 VA	360 VA						1	20 A	Kitchen 114	8
9	Kitchen 114	20 A	1				540 VA	360 VA				1	20 A	Kitchen 114	10
11	Kitchen 114	20 A	1						540 VA	360 VA		1	20 A	Kitchen 114	12
13	Kitchen 114	20 A	1		180 VA	180 VA						1	20 A	Kitchen 114	14
15	Kitchen 114	20 A	1				720 VA	360 VA			2	1	20 A	Dayroom 114	16
17	Jan. 104	20 A	1	2					540 VA	1080 VA	2	1	20 A	DORMS	18
19	DORMS	20 A	1	2	1260 VA	1080 VA					2	1	20 A	DORMS	20
21	EUH-1	20 A	1				1500 VA	180 VA			1	1	20 A	REFRIG.	22
23	REFRIG.	20 A	1	1					180 VA	180 VA	1	1	20 A	REFRIG.	24
25	RANGE	50 A	2	1	4160 VA	1267 VA						3	30 A	ATU1-3	26
27	--	--	--				4160 VA	1267 VA				--	--	--	28
29	Gas Valve	20 A	1						1600 VA	1267 VA		--	--	--	30
31	Decon Damp.	20 A	1		2000 VA	0 VA						1	20 A	Spare	32
33	Spare	20 A	1				0 VA	0 VA				1	20 A	Spare	34
35	Spare	20 A	1						0 VA	0 VA		1	20 A	Spare	36
37	Spare	20 A	1		0 VA	0 VA						1	20 A	Spare	38
39	Spare	20 A	1				0 VA	0 VA				1	20 A	Spare	40
41	Spare	20 A	1						0 VA	0 VA		1	20 A	Spare	42
		Total Load:			11072 VA		11034 VA		8607 VA						

NOTES:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	1436 VA	125.00%	1796 VA		
Other	4700 VA	70.00%	3290 VA	**Total Conn. Load:**	30687 VA
Power	6340 VA	70.00%	4438 VA	**Total Est. Demand:**	22082 VA
Receptacles	18580 VA	70.00%	13006 VA	**Total Conn. Current:**	85 A
				Total Est. Demand...	61 A

Branch Panel: B

LOCATION: | **MOUNTING:** Surface | **A.I.C RATING**
SUPPLY FROM: MDP | **ENCLOSURE:** Type 1 | **MAINS TYPE:** F.T.L / M.L.O
VOLTAGE: 120/208 Wye-3-4 | **MCB RATING:** NA | **MAINS RATING:** 225 A
TWO 42 CIRCUIT PANELS

CKT	Description	Trip	Poles	Note	A		B		C		Note	Poles	Trip	Description	CKT
1	Lighting	20 A	1		242 VA	569 VA						1	20 A	Lighting	2
3	Site Lighting	20 A	1				781 VA	720 VA				1	20 A	IT 105	4
5	IT 105	20 A	1						720 VA	720 VA		1	20 A	Report Rm.117	6
7	Report Rm.117	20 A	1		360 VA	180 VA						1	20 A	App Bay 122	8
9	Report Rm.117	20 A	1				360 VA	180 VA				1	20 A	Washer	10
11	App Bay 122	20 A	1						180 VA	360 VA		1	20 A	Decon 119	12
13	WH-1	20 A	1		180 VA	540 VA						1	20 A	TOG 118	14
15	Ice Maker	20 A	1	1			180 VA	1260 VA				1	20 A	Exterior Rec.	16
17	EF-2	20 A	1						500 VA	1133 VA		3	20 A	EF-1	18
19	EF-4	20 A	1		500 VA	1133 VA						--	--	--	20
21	EF-5	20 A	1				50 VA	1133 VA				--	--	--	22
23	EF-7	20 A	1						1000 VA	500 VA		2	15 A	FC-1	24
25	FC-3	15 A	2		500 VA	500 VA						--	--	--	26
27	--	--	--				500 VA	500 VA				2	15 A	FC-4	28
29	FC-5	15 A	2						500 VA	500 VA		--	--	--	30
31	--	--	--		500 VA	50 VA						2	20 A	FC-6	32
33	ATU1-5	20 A	3				333 VA	50 VA				--	--	--	34
35	--	--	--						333 VA	500 VA		2	60 A	AIR COMP.	36
37	--	--	--		333 VA	500 VA						--	--	--	38
39	Other	20 A	3				833 VA	2496 VA			1	2	30 A	Dryer	40
41	--	--	--						833 VA	2496 VA		--	--	--	42
43	--	--	--		833 VA	500 VA						2	15 A	BS-1	44
45	EUH-2	20 A	3				1667 VA	500 VA				--	--	--	46
47	--	--	--						1667 VA	100 VA		1	20 A	FA PANEL	48
49	--	--	--		1667 VA	1500 VA						1	20 A	EUH-1	50
51	EUH-3	20 A	3				1333 VA	1667 VA				3	20 A	EUH-2	52
53	--	--	--						1333 VA	1667 VA		--	--	--	54
55	--	--	--		1333 VA	1667 VA						--	--	--	56
57	Press Mon	20 A	1				100 VA	4992 VA				1	30 A	IT 105	58
59	Motor	20 A	1						1600 VA	1333 VA		3	30 A	HOSE HOIST	60
61	EUH-3	20 A	3		1333 VA	1333 VA						--	--	--	62
63	--	--	--				1333 VA	1333 VA				--	--	--	64
65	--	--	--						1333 VA	100 VA		1	20 A	Press Mon	66
67															68
69															70
71	Spare	20 A	1						0 VA	0 VA		1	20 A	Spare	72
73	Spare	20 A	1		0 VA	0 VA						1	20 A	Spare	74
75	Spare	20 A	1				0 VA	0 VA				1	20 A	Spare	76
77	Spare	20 A	1						0 VA	0 VA		1	20 A	Spare	78
79	Spare	20 A	1		0 VA	0 VA						1	20 A	Spare	80
81	Spare	20 A	1				0 VA	0 VA				1	20 A	Spare	82
83	Spare	20 A	1						0 VA	0 VA		1	20 A	Spare	84
		Total Load:			16252 VA		22301 VA		19409 VA						

NOTES:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	1590 VA	125.00%	1988 VA		
Motor	11150 VA	80.00%	8920 VA	**Total Conn. Load:**	57963 VA
Other	22000 VA	70.00%	15400 VA	**Total Est. Demand:**	42563 VA
Power	7300 VA	70.00%	5110 VA	**Total Conn. Current:**	161 A
Receptacles	15924 VA	70.00%	11147 VA	**Total Est. Demand...**	118 A

Switchboard: MDP

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** M.L.O
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 600 A
Enclosure: Type 1 | **MCB Rating:** 1 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Wire Size	Feed	Cond. Size
1	PANEL 'A'	3	200 A	200 A	51135 VA	3-#4/0, 1-#4/0, 1-#6		2"
2	PANEL 'B'	3	200 A	200 A	57963 VA	3-#4/0, 1-#4/0, 1-#6		2"
3	PANEL 'C'	3	200 A	200 A	30687 VA	3-#4/0, 1-#4/0, 1-#6		2"
4	DOAS-1	3	100 A	100 A	15600 VA	3-#2, 1-#2, 1-#8		1.25
5	CD-1A	3	100 A	100 A	10800 VA	3-#2, 1-#2, 1-#8		1.25"
6	CD-1B	3	100 A	100 A	10800 VA	3-#2, 1-#2, 1-#8		1.25
7	SCBA	3	60 A	60 A	6000 VA	3-#6, 1-#6, 1-#10		
8	Spare	3	100 A	100 A	0 VA	--		
9								
10								
11								
12								
			Total Conn. Load:		182973 VA			
			Total Amps:		508 A			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Lighting	4349 VA	125.00%	5436 VA		
Motor	46450 VA	80.00%	37160 VA	**Total Conn. Load:**	182973 VA
Other	26700 VA	70.00%	18690 VA	**Total Est. Demand:**	135049 VA
Power	60840 VA	70.00%	42588 VA	**Total Conn. Current:**	508 A
Receptacles	44764 VA	70.00%	31335 VA	**Total Est. Demand...**	375 A

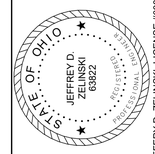
Notes:

(#) CONSTRUCTION NOTES

1. PROVIDE GFCI BREAKER OR CIRCUIT PROTECTOR.
2. PROVIDE AFCI BREAKER.

FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS
226 N. MIAMI AVE.
P.O. BOX 220
SIDNEY, OHIO 45365
(937) 492-6983
www.freytaginc.com
info@freytaginc.com

NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY
SIDNEY, OHIO 45365
2324 CAMPBELL ROAD



JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE: 12/31/2025

REVISIONS
PLAN APPROVAL / BIDDING
2 ADDENDUM 2 01/10/25
3 ADDENDUM 3 01/23/25

COMM. NUMBER	DATE
2207.02	11/13/24
DRAWN BY	CHECKED BY
DAC	TCR

PANEL SCHEDUELS

E0.7

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821 – Fax: (937) 223-3849

PROJECT # 23015

STORM SHELTER

A. PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3-1/2 IN² AREA FOR RECTANGULAR OPENING OR 2 - 1/16" IN DIAMETER SHALL BE CONSIDERED OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE. REFERENCE STRUCTURAL DRAWINGS.

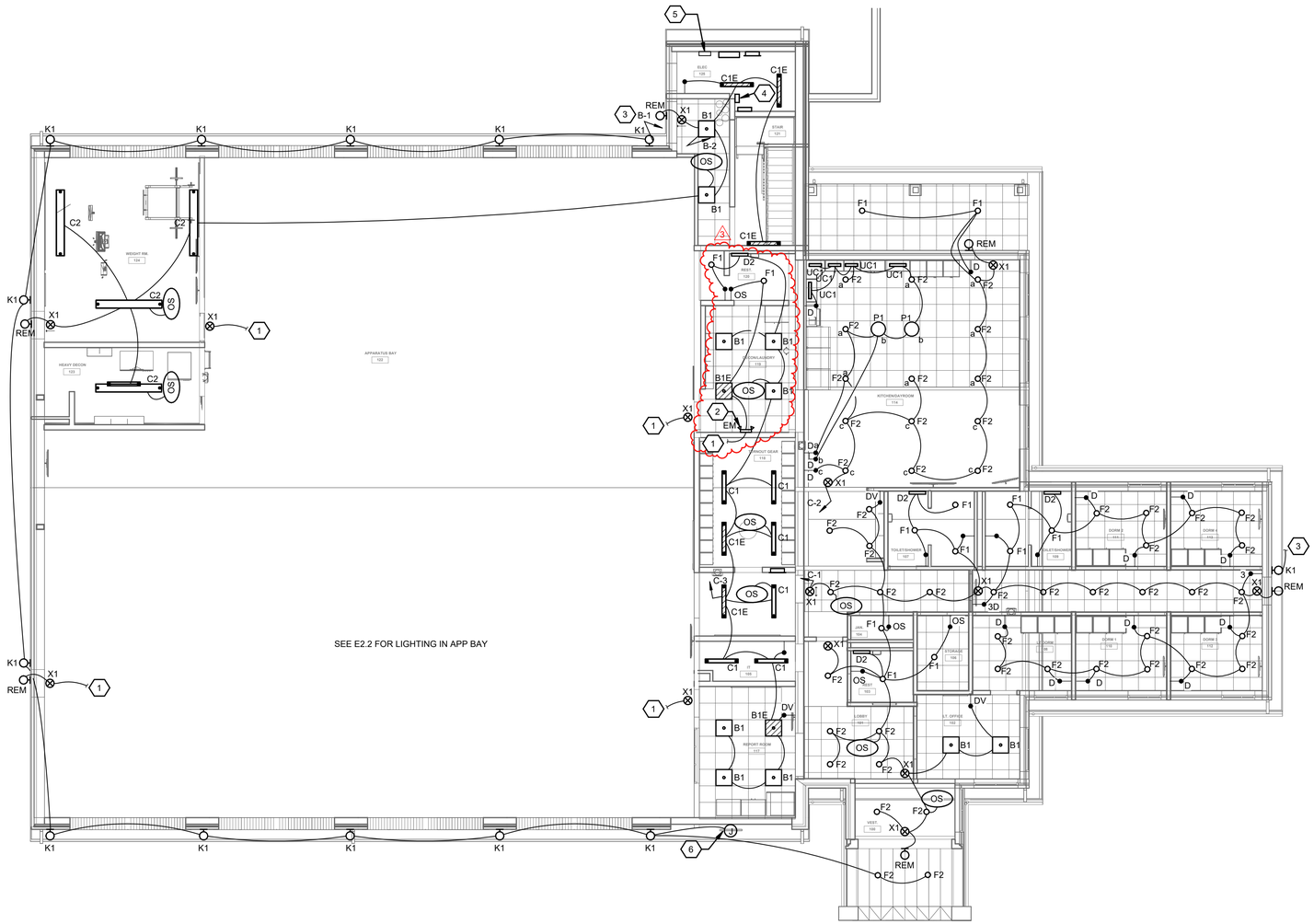
B. LIGHTING FIXTURES IN STORM SHELTER SHALL HAVE INTEGRAL EMERGENCY BATTERY BALLAST(S) IN FIXTURE(S) CAPABLE TO ILLUMINATE FIXTURE AT 1000 LUMENS FOR A MINIMUM OF 180 MINUTES (2 HOURS) OR THE E.C. SHALL PROVIDE SEPARATE EMERGENCY BATTERY LIGHTING UNIT WITH SIMILAR LUMEN OUTPUT AND BATTERY BACKUP.

GENERAL NOTES

A. CONNECT ALL EXIT/EMERGENCY EGRESS LIGHTING AHEAD OF LOCAL CONTROLS.

CONSTRUCTION NOTES

1. CONNECT EXIT/EM EGRESS LIGHT TO APPARATUS BAY LIGHTING CIRCUIT AHEAD OF CONTROLS. 10' - 0" MOUNTING HEIGHT UNLESS NOTE OTHERWISE.
2. PROVIDE STANDALONE UPS (1 KW-120V OUTPUT) TO POWER EMERGENCY LIGHTING FIXTURES AND EXHAUST FAN SERVING STORM SHELTER (DECON/LAUNDRY ROOM AND TOILET). UPS SHALL BE SIZED TO SUPPORT LIGHTING AND FAN LOAD FOR A MINIMUM OF 2 HOURS UPON LOSS OF BUILDING NORMAL AND STANDBY POWER. UPS SHALL BE UL LISTED AND SUITABLE FOR WALL MOUNTING; WITH WALL BRACKET; 1-120V OUTPUT BREAKER. MOUNT ON WALL NEAR CEILING; SERVE FROM 'EMERGENCY' CCT.
3. CIRCUIT LIGHTS TO EXTERIOR LIGHTING RELAY PANEL, LOCATED IN MAIN ELECTRIC ROOM.
4. PROVIDE 4-POLE LIGHTING CONTACTOR WITH 120V COIL FOR CONTROL OF EXTERIOR LIGHTING. PHOTOCELL ON/OFF. LOCATE PHOTOCELL ON ROOF PARAPET ABOVE.
5. LIGHTING RELAY PANEL FOR APP BAY AND EXTERIOR LIGHTING CONTROL.
6. PROVIDE LIGHTING CIRCUIT CONNECTION TO EXTERIOR STATION SIGNAGE.



FIRST FLOOR LIGHTING PLAN

SCALE: 1/8" = 1'-0"

SCALE: 1/8"=1'-0"

FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS
226 N. MIAMI AVE.
PO. BOX 220
SIDNEY, OHIO 45365
(937) 492-6983
www.freytaginc.com
info@freytaginc.com

NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY
2324 CAMPBELL ROAD SIDNEY, OHIO 45365

JEFFREY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE: 12/31/2025

REVISIONS

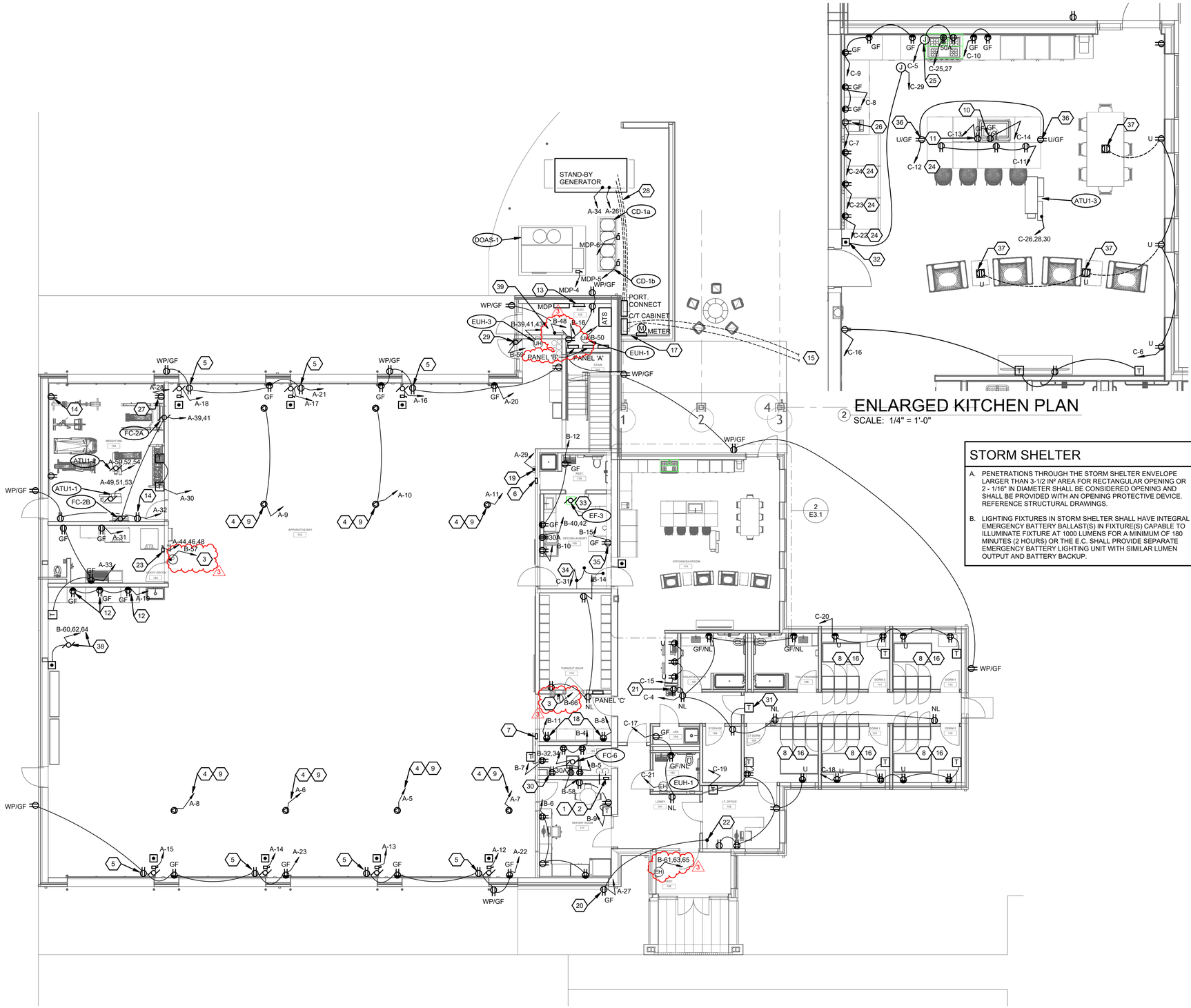
	PLAN APPROVAL / BIDDING	
3	ADDENDUM 3	01/23/25

COMM. NUMBER	DATE
2207.02	11/13/24
DRAWN BY: DAC	CHECKED BY: TCR

FIRST FLOOR LIGHTING PLAN

E2.1

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3521 – Fax: (937) 223-3849
PROJECT # 23015



ENLARGED KITCHEN PLAN

2 SCALE: 1/4" = 1'-0"

STORM SHELTER

A. PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3-1/2 IN² AREA FOR RECTANGULAR OPENING OR 2 - 1/16" IN DIAMETER SHALL BE CONSIDERED OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE. REFERENCE STRUCTURAL DRAWINGS.

B. LIGHTING FIXTURES IN STORM SHELTER SHALL HAVE INTEGRAL EMERGENCY BATTERY BALLAST(S) IN FIXTURE(S) CAPABLE TO ILLUMINATE FIXTURE AT 1000 LUMENS FOR A MINIMUM OF 180 MINUTES (2 HOURS) OR THE E.C. SHALL PROVIDE SEPARATE EMERGENCY BATTERY LIGHTING UNIT WITH SIMILAR LUMEN OUTPUT AND BATTERY BACKUP.

FIRST FLOOR POWER PLAN

SCALE: 1/8" = 1'-0"

CONSTRUCTION NOTES

1. GENERATOR ANNUNCIATOR.
2. FIRE ALARM REMOTE ANNUNCIATOR .
3. PROVIDE 120V 1PH POWER FOR PRESSURE MONITORING STATION.
4. FLUSH MOUNTED TWISTLOCK RECEPTACLE AT CEILING STRUCTURE FOR SERVICE CORD DROP TO VEHICLE BAY.
5. RECEPTACLE MOUNTED AT TOP OF DOOR OPENING TO POWER DOOR POSITION LIGHTS. LIGHTS BY DOOR SYSTEM VENDOR.
6. NORTH APPARATUS BAY CONTROL PANEL REFER TO DETAIL 2 SHEET E0.4.
7. SOUTH APPARATUS BAY CONTROL PANEL. REFER TO DETAIL 3 SHEET E0.4.
8. PROVIDE AFCI CIRCUIT BREAKER FOR DORM ROOM CIRCUIT.
9. E.C. TO PROVIDE A DROP CORD ASSEMBLY CONSISTING OF 25' LONG 12/3 'SOOW' CORD WITH A NEMA L5-20P 120V-20A PLUG ON ONE END AND A NEMA 5-20R CONNECTOR ON THE OTHER END. PROVID A CABLE GRIP EQUAL TO ADALET # "SKY-TIE" BUS DROP CABLE CLAMP ("SHS" SERIES) AND MOUNT TO CEILING WITH EYE BOLT ATTACHED TO STRUCTURE. MOUNT CONNECTOR AT HEIGHT ABOVE FLOOR PER OWNERS DIRECTION AND COIL AND TIE EXTRA CABLE AT CABLE SUPPORT EYE BOLT NEAR CEILING.
10. GFCI RECEPTACLE IN SINK BASE CABINET FOR GARBAGE DISPOSER. COORDINATE LOCATION WITH P.C. AND PROVIDE MATCHING CORD/PLUG FOR DISPOSER. WIRE RECEPTACLE TO WALL SWITCH ABOVE COUNTER.
11. GFCI RECEPTACLE IN SINK BASE CABINET FOR DISHWASHER. COORDINATE LOCATION WITH P.C. AND PROVIDE MATCHING CORD/PLUG FOR UNIT.
12. PROVIDE PLUGMOLD ABOVE WORK COUNTER, 6' LONG WITH NEMA 5-20R RECEPTACLES SPACED 12" ON-CENTER.
13. MAIN GROUND BAR.
14. RECEPTACLE AT 96"M.H. FOR CONNECTION OF WALL MOUNTED OSCILLATING FAN. PROVIDE FAN EQUAL TO GLOBAL INDUSTRIAL #607050. 24" DIA, 7500 CFM, 120V CORD AND PLUG CONNECTED WITH 3 SPEED/OFF PULLCHAIN CONTROL.
15. UNDERGROUND SERVICE FEEDERS FROM UTILITY TRANSFORMER.
16. COORDINATE MOUNTING HEIGHTS/LOCATIONS OF RECEPTACLES IN DORM ROOMS WITH FURNITURE.
17. UTILITY CT CABINET AND METER PER AES.
18. PLUGMOLD FOR BATTERY CHARGING STATIONS (STACKED) COORDINATE MOUNTING HEIGHT WITH SHELVES. 36" LONG, RECEPTACLES 6" O.C. UTILIZE SAME CIRCUIT FOR BOTH.
19. PROVIDE 120 POWER TO CO/NOX SYSTEM DETECTION SYSTEM (FURNISHED BY H.C.). COORDINATE LOCATION WITH H.C.
20. RECEPTACLE MOUNTED FLUSH IN SOFFIT, FOR HOLIDAY LIGHTING.
21. GFCI RECEPTACLE FOR WATER COOLER. COORDINATE LOCATION WITH P.C.
22. PROVIDE WALL SWITCH FOR CONTROL OF SOFFIT RECEPTACLE.
23. COORDINATE POWER CONNECTION AND FUSING REQUIREMENTS FOR TOG WASHER WITH EQUIPMENT SUPPLIER.
24. PROVIDE GFCI CIRCUIT BREAKER FOR CIRCUIT.
25. PROVIDE 120V POWER TO EXHAUST HOOD FOR CONNECTION TO EXHAUST FAN EF-3, RANGE CONTROL CIRCUIT AND HOOD LIGHT(S). HOOD INCLUDES FIRE SUPPRESSION SYSTEM FOR RANGE CONTROL POWER CIRCUIT AND GAS SUPPLY SOLENOID VALVE CONTROL. COORDINATE ROUGH-IN REQUIREMENTS AND WIRING WITH EQUIPMENT SUPPLIER.
26. COORDINATE RECEPTACLE MOUNTING HEIGHT, LOCATION, WITH MICROWAVE SHELF. REFER TO ARCHITECTURAL ELEVATIONS.
27. DEDICATED 20A-120V CIRCUIT FOR TREADMILL.
28. UNDERGROUND STAND-BY FEEDERS, START/ANNUNCIATOR WIRING, BLOCK HEATER, BATTERY CHARGER, HOUSING CIRCUITS FROM GENERATOR TO POTRABLE CONNECTION BOX TO ATS.
29. PROVIDE 120V POWER AND SERVICE DISCONNECT TO BOOSTER FAN FOR DRYER EXHAUST. COORDINATE WITH H.C.
30. COORDINATE RECEPTACLE CONFIGURATION WITH OWNER FOR DATA RACK.
31. LOCATE TV WALL BOX ABOVE DOOR FRAME.
32. PROVIDE MAINTAINED CONTACT MUSHROOM HEAD EMERGENCY STOP BUTTON TO DE-ENERGIZE POWER TO GAS SOLONOID VALVE FOR KITCHEN RANGE. COORDINATE WIRING REQUIREMENTS WITH P.C.
33. CONNECT EXHAUST FAN SERVING STORM SHELTER TO UPS SERVING LIGHTING IN DECON / TOILET ROOMS.
34. 120V POWER TO DAMPER ACTUATOR AT THIS LOCATION. PROVIDE 120V WALL SWITCH FOR MANUAL DAMPER CONTROL.
35. RECEPTACLE FOR ICE MAKER, COORDINATE LOCATION WITH ARCHITECT.
36. MOUNT RECEPTACLE IN FACE OF ISLAND CASEWORK.
37. FLUSH FLOOR BOX WITH DUPLEX RECEPTACLE AND SCRUB SHIELD COVER, SATIN NICKEL TRIM. EQUAL TO HUBBELL SYSTEM ONE, 4" FLOOR BOX.
38. PROVIDE HOSE HOIST, EQUAL TO ELECTROLIFT #34-L6. 2000 lb CAPACITY, 40' CABLE, SINGLE HOOK, 4 HP, 208V/3PH. 120V CONTROL WIRING BETWEEN HOIST AND REMOTE FLUSH MOUNTED CONTROL STATION BY E.C., COORDINATE WIRE SIZE WITH MANUFACTURERS RECOMMENDATIONS. COORDINATE WITH G.C. TO MOUNT HOIST TO ROOF STRUCTURE. CONTROL STATION SHALL HAVE TWO BUTTON CONTROL WITH KEYED LOCK OUT (POWER OFF, UP/DOWN).

0 2 4 8 12 16 20

SCALE: 1/4"=1'-0"

0 4 8 16 24 32 40

SCALE: 1/8"=1'-0"

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3921 – Fax: (937) 223-3949
PROJECT # 23015

FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS
226 N. MIAMI AVE.
PO. BOX 220
SIDNEY, OHIO 45365
(937) 492-6983
www.freytaginc.com
info@freytaginc.com

NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY
SIDNEY, OHIO 45365
2324 CAMPBELL ROAD

STATE OF OHIO
JEFFREY D. ZELINSKI
83822
REGISTERED PROFESSIONAL ENGINEER

JEFFREY D. ZELINSKI, LICENSE #83822
EXPIRATION DATE 12/31/2025

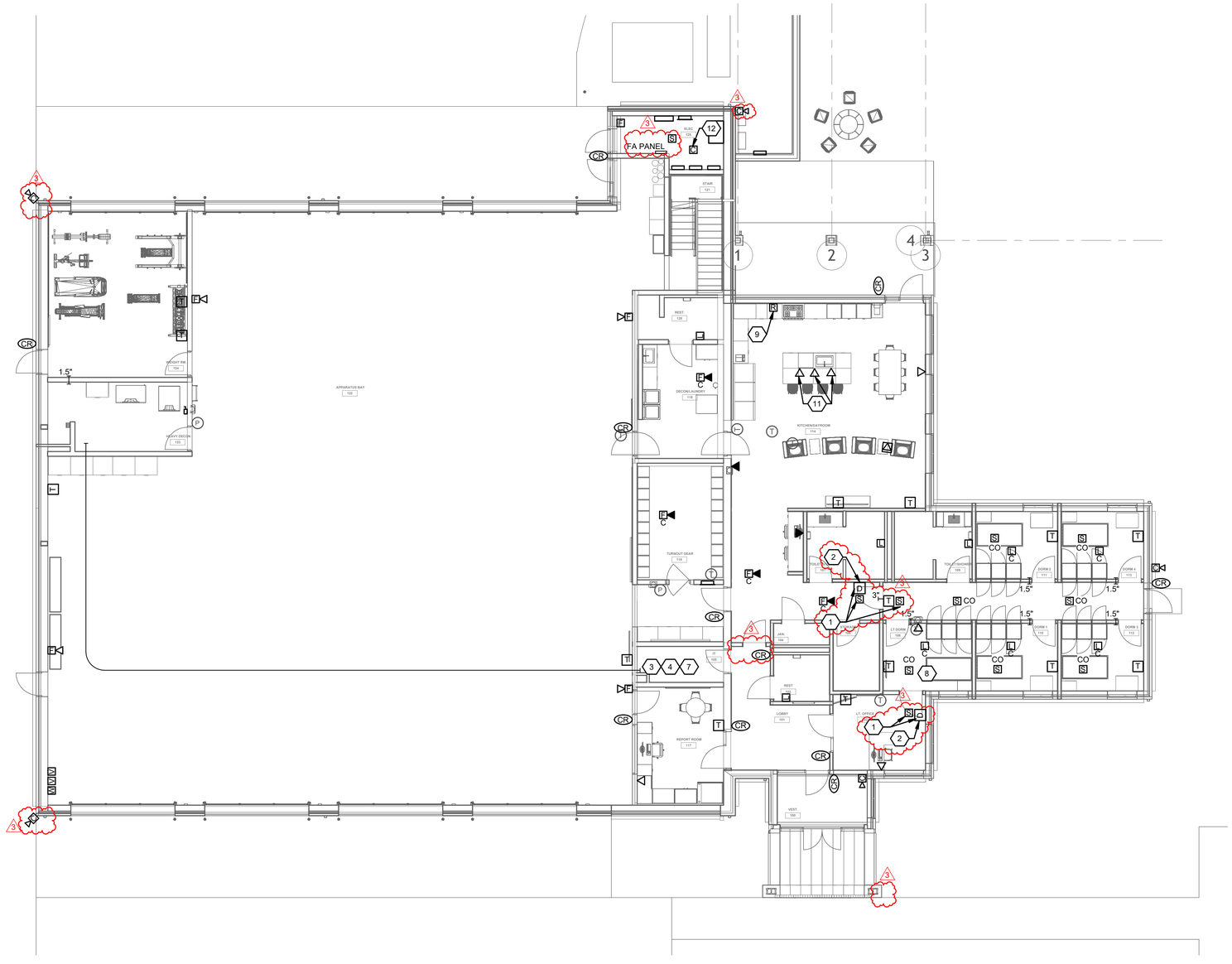
REVISIONS

	PLAN APPROVAL / BIDDING	
2	ADDENDUM 2	01/10/25
3	ADDENDUM 3	01/23/25

COMM. NUMBER	DATE
2207.02	11/13/24
DRAWN BY: DAC	CHECKED BY: TCR

FIRST FLOOR POWER PLAN

E3.1



FIRST FLOOR SYSTEMS PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES

A. THE E.C. SHALL REFER TO TECHNOLOGY PLANS, DETAILS, AND SPECIFICATIONS FOR ROUGH-IN BOX, RACEWAY, AND PATHWAY REQUIREMENTS FOR TECCHNOLOGY / AV SYSTEMS.

B. SYSTEM VENDOR MAY UTILIZE SINGLE STATION SMOKE/CO DETECTION, TIED TO FA SYSTEM IN DORM ROOMS OR SYSTEM DEVICE COMBINATION SMOKE/CO DETECTOR WITH LOW FREQUENCY SOUNDER BASE AND 177 CANDELA STROBE AS REQUIRED BY CODE.

CONSTRUCTION NOTES

1. SMOKE DETECTOR FOR RELEASE OF MAGNETIC DOOR HOLDER.
2. MAGNETIC DOOR HOLDER POWERED FROM FIRE ALARM PANEL BY E.C. HOLDER FURNISHED BY DOOR HARWARE SUPPLIER.
3. PROVIDE 3/4" PLYWOOD, 3 WALLS, FOR DATA, IT EQUIPMENT.
4. PROVIDE TWO 3"C. ACROSS APPARATUS BAY , AT CEILING STRUCTURE, FOR SYSTEMS CABLING (DATA, SECURITY, LOCUTION, FIRE ALARM, ETC.).
5. PROVIDE BACKBOX AT CEILING STRUCTURE AND DATA CABLING IN 1"C. ACROSS APPARATUS BAY IT ROOM.
6. REFER TO SITE PLAN FOR ROUTING OF SERVICE ENTRANCE CONDUIT TO UTILITY POLE/PEDISTAL.
7. PROVIDE TELECOM GROUND BAR NEAR DATA RACK REFER TO GROUNDING DETAILS. SHEET E0.4
8. SMOKE DETECTOR PROGRAMMED FOR RELEASE OF MAGNETIC DOOR HOLDER
9. PROVIDE FIRE ALARM MONITOR MODULE FOR CONNECTION TO EXHAUST HOOD/SUPPRESSION SYSTEM.
10. OMITTED.
11. COORDINATE MOUNTING OF DATA ROUGH-INS TO KITCHEN ISLAND WITH ARCHITECT / OWNER.
12. PROVIDE FIRE ALARM CONTROL RELAY TO SHUNT-CIRCUIT TO APP BAY CEILING FANS UPON FIRE ALARM CONDITION.

STORM SHELTER

A. PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE LARGER THAN 3-1/2 IN² AREA FOR RECTANGULAR OPENING OR 2 - 1/16" IN DIAMETER SHALL BE CONSIDERED OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE. REFERENCE STRUCTURAL DRAWINGS.

B. LIGHTING FIXTURES IN STORM SHELTER SHALL HAVE INTEGRAL EMERGENCY BATTERY BALLAST(S) IN FIXTURE(S) CAPABLE TO ILLUMINATE FIXTURE AT 1000 LUMENS FOR A MINIMUM OF 180 MINUTES (2 HOURS) OR THE E.C. SHALL PROVIDE SEPARATE EMERGENCY BATTERY LIGHTING UNIT WITH SIMILAR LUMEN OUTPUT AND BATTERY BACKUP.

0 4 8 16 24 32 40

SCALE: 1/8"=1'-0"

NAUMAN & ZELINSKI LLC.
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402
Phone: (937) 223-3821 – Fax: (937) 223-3849
PROJECT # 23015

FREYTAG & ASSOCIATES INC.
ARCHITECTS ENGINEERS
226 N. MIAMI AVE.
PO. BOX 220
SIDNEY, OHIO 45365
(937) 492-6983
www.freytaginc.com
info@freytaginc.com

NEW CONSTRUCTION OF
FIRE STATION 2
CITY OF SIDNEY
2324 CAMPBELL ROAD
SIDNEY, OHIO 45365

STATE OF OHIO
JEFFREY D. ZELINSKI
63822
REGISTERED PROFESSIONAL ENGINEER

JEFFERY D. ZELINSKI, LICENSE #63822
EXPIRATION DATE: 12/07/2025

REVISIONS

	PLAN APPROVAL / BIDDING	
3	ADDENDUM 3	01/23/25

COMM. NUMBER	DATE
2207.02	11/13/24
DRAWN BY	CHECKED BY
DAC	TCR

FIRST FLOOR SYSTEMS PLAN

E4.1