

**Addendum No. 2
February 16, 2023**

Project: Harrisburg Elementary School #8
Harrisburg, South Dakota
Architecture Incorporated Project #3000

Architect: Architecture Incorporated

Letting: **Thursday, February 23, 2023
2:00 p.m.**

Location: Community Center Conference Room at the Harrisburg School District Administration Offices, 200 Willow Street, Harrisburg, South Dakota 57032. (Enter from southeast community center entrance).

Scope of this Addendum:

To all bidders and all others to whom drawings and specifications have been issued by Architecture Incorporated, this Addendum forms a part of the Contract Documents. Acknowledge receipt of this addendum by listing its number and date in the bidder's Form of Proposal. Failure to do so may subject bidder to disqualification. This addendum modifies the drawings and specifications as follows:

GENERAL ITEMS:

1) GENERAL CLARIFICATIONS

- a) The Contractor shall include furnishing and installing a 2-inch thickness of rigid foam board insulation beneath all heated floor slabs per his base bid; reference Section 072100. See mechanical drawing Sheet 8.28 for heated slab locations.
- b) Unless specifically indicated otherwise, all playground equipment shown on the drawings will be furnished and installed by the Owner outside of the Elementary School project scope; the Owner will hold a separate contract with a Playground Contractor. The Elementary School Contractor shall be required to coordinate the installation of playground curbing, subdrainage system(s), aggregate fill, and recessed concrete slab(s) directly with the Owner's Playground Contractor. Recessed slabs and aggregate fill material at playground equipment areas shall not be installed until authorized by the Owner.
- c) All playground surfacing shown on the drawings will be furnished and installed by the Owner outside of the Elementary School project scope; the Owner will hold a separate contract with a Playground Contractor. The Elementary School Contractor shall be required to coordinate the installation of playground curbing, subdrainage system(s), and recessed concrete slab(s) directly with the Owner's Playground Contractor.
- d) The Contractor shall include furnishing and installing pavement marking paint for the playground's hopscotch, 4-square and basketball courts as shown per drawing Sheet 2.32 in his base bid.
 - i) Marking Paint Color(s): As selected by Owner at later date.

2) SECTION 114000 – FOOD SERVICE EQUIPMENT

- a) Replace Food Service Equipment ITEM 27 with the following:

ITEM 27 - SHELVING, WALL MOUNTED (4 REQ'D)

Advance Tabco Model WS-10-48 Dimensions: 8.5(h) x 48(w) x 10(d) Shelf, wall-mounted, 48"W x 10"D, 1-5/8" bullnose front edge, 1-1/2"H rear up-turn, 18/430 satin finish stainless steel, NSF. Mount 2 on either side of sinks

3) SECTION 116623 – GYMNASIUM EQUIPMENT

- a) The Contractor shall include furnishing and installing four (4) exterior basketball hoops at the south end of the playground in his base bid.
- i) Exterior basketball hoops shall be provided under Section 116623.
- ii) Add Article 2.3.K. to Section 116623 as follows:

K. *Basis of Design Playground Basketball Equipment:*

1. *Posts: Performance Sports (Outdoor) Braced Gooseneck Basketball System; Model GN60.*
 - a. *Gooseneck style; 5-9/16" OD Schedule 40 galvanized pipe designed to extend backboard 72" out from post.*
 - b. *Posts shall extend at least 36" into a 36" dia. x 48" deep concrete footing at each location.*
2. *Backboard: Performance Sports Aluminum Backboard with border and target; Model #1750B.*
 - a. *Fan-shaped aluminum backboard.*
 - b. *Standard goal and net.*
3. *Goal: Performance Sports Heavy-Duty Front Mount Goal; Model 7550.*
 - a. *Provide one (1) exterior grade net for each goal.*

4) SECTION 230800 – VENTILATION AND AIR CONDITIONING

- a) Add the following to Section 230800:

DUCTLESS SPLIT SYSTEM

Provide a variable capacity, cooling only inverter driven series split system. The system shall consist of a wall mounted evaporator model FTXS30LVJU exclusively matched to outdoor model RKS30LVJU, and FTXS36LVJU exclusively matched to outdoor model RKS36LVJU direct expansion (DX), air-cooled, swing, variable speed, inverter driven compressor using R-410A refrigerant. The outdoor unit is a horizontal discharge, variable speed, single fan unit using a single phase power supply. The system shall

have a self diagnostic function, 3-minute time delay mechanism and have a factory pre-charge of R-410A adequate for 33 feet of total line set length. The system shall have automatic restart capability after a power failure has occurred and a low voltage cut-off feature to prevent stalling during power supply issues.

The system performance shall be in accordance with AHRI 210/240 test conditions as shown in the performance table below.

ODU	IDU	Cooling Capacity Rated (Min. ~ Max.)	SEER	EER
RKS30LVJU	FTXS30LVJU	30,000 (10,200 ~ 30,000)	19.3	10.71
RKS36LVJU	FTXS36LVJU	36,000 (10,200 ~ 36,000)	17.9	8.37

The cooling performance is based on 80°F DB / 67°F WB for the indoor unit and 95°F DB / 75°F WB for the outdoor unit and 25 feet of piping.

The operating range in cooling will be -20°F DB ~ 115°F DB with Ultra Low-Ambient Kit, wind baffle, and the Jumper is cut on ODU.

The system shall be capable of maximum refrigerant piping as follows. For the 30k btu and 36k btu a max of 98-1/2 feet, with 65-5/8 feet vertical difference, without any oil traps or additional components.

The indoor unit shall be factory assembled and pre-wired with all necessary electronic and refrigerant controls. Both liquid and suction lines must be individually insulated between the outdoor and indoor units.

The indoor unit shall have a white, “wipe-clean” finish. The drain and refrigerant piping shall be accessible from six (6) positions for flexible installation (right side, right back, and right bottom; and left side, left back, and left bottom). The cabinet shall be supplied with a mounting plate to be installed onto a wall for securely mounting the cabinet. The cabinet shall include:

- i. Indoor unit ON/OFF switch, capable of being used when the remote controller is missing. When switch is used, the default setting is COOL mode, 72°F temperature setting, and AUTO airflow rate.
- ii. OPERATION lamp that turns green when activated
- iii. TIMER lamp that turns yellow when activated
- iv. A Signal Receiver that receives signals from the remote controller at a maximum distance of 23 ft. When the unit receives a signal, you will hear the following: 2 beeps – operation start, 1 beep – Setting changed, 1 long beep – operation stop.

The evaporator fan shall be an assembly consisting of a direct-driven fan by a single motor. The fan shall be statically and dynamically balanced and operate on a motor with permanent lubricated bearings. An auto-swing louver for adjustable air flow (both vertically and horizontally) is standard via the wireless remote control furnished with each system. The indoor fan shall offer a choice of five speeds, plus quiet and auto settings.

The return air filter provided will be a mildew resistant, removable and washable filter. Two titanium apatite photocatalytic air purifying filters are included for additional air filtration.

The evaporator coil shall be a nonferrous, aluminum fin on copper tube heat exchanger. All tube joints shall be brazed with silver alloy or phoscopper. All coils will be factory pressure tested. A condensate pan shall be provided under the coil with a drain connection.

The outdoor unit shall be powered with 208-230 volts, 1 phase, and 60 hertz power. The indoor unit shall receive 208-230 volt, 1 phase, 60 hertz power from the outdoor unit. The allowable voltage range shall be 187 volts to 253 volts.

The unit shall have a backlit, wireless remote infra-red controller capable to operate the system. It shall have Cooling Operation, Dry Operation and Fan Only Operation. The controller shall consist of an On/Off Power switch, Mode Selector, Quiet Button (for outdoor unit), Fan Setting, Swing Louver, On/Off Timer Setting, Temperature Adjustment, °C or °F Temperature Display, Intelligent Eye Sensor, Weekly Timer, Night Set Mode, Comfort Mode, Econo Mode, and Powerful Operation.

- i. On/Off switch powers the system on or off.*
- ii. Mode selector shall operate the system in cool, fan, or dry operation.*
- iii. Quiet button for outdoor unit lowers the noise level by changing frequency and fan speed of the outdoor unit.*
- iv. Fan setting shall provide five fan speeds, plus quiet and auto settings.*
- v. Swing louver shall adjust the airflow (horizontal and vertical) blades.
 - 1. Vertical & horizontal positions can be manually adjusted, or placed into auto swing or 3-D airflow settings.**
- vi. On/Off timer is used for automatically switching the unit on or off.
 - 1. Night Set mode automatically engaged with Off Timer is set. This setting automatically adjusts the temperature setting 0.9°F (0.5°C) up in COOL to prevent excessive cooling or heating during sleeping hours.**
- vii. Temperature adjustment allows for the increase or decrease of the desired temperature.*
- viii. The Intelligent Eye sensor detects human movement. If no movement is detected in the room for more than 20 minutes, the operation automatically changes the temperature up 3.6°F to an energy saving operation.*
- ix. Weekly timer allows for programming the temperature setting and on/off times of up to four settings per day for each day of the week.*
- x. Comfort Mode directs the airflow upwards while in COOL operation. This function prevents air from blowing directly on the occupants in the room.*
- xi. Econo operation is a function which enables efficient operation by limiting the maximum power consumption value. This function will also prevent the circuit breaker from tripping when the unit operates alongside other appliances on the same circuit.*
- xii. Powerful operation allows quick cool down in the desired space to achieve maximum desired temperature in the shortest allowable time period.*

The controller shall be able to display two-digit fault codes extracted from the indoor unit to aid in troubleshooting. Temperature range on the remote control shall be 64°F to 90°F in COOL mode. The temperature shall be controlled in 1° increments. The indoor unit microprocessor has the capability to receive and process commands via return air temperature and indoor coil temperature sensors enabled by commands from the remote control. The unit shall also have the capability to connect to a smart-device app via wireless adapter.

The outdoor unit shall be specifically matched to the corresponding indoor unit size. The outdoor unit shall be complete factory assembled and pre-wired with all necessary electronic and refrigerant controls. The outdoor shall be controlled by a microprocessor and dedicated EEV's shall be provided for capacity control during part load of the indoor unit.

The outdoor unit shall be completely weatherproof and corrosion resistant. The unit shall be constructed from rust-proofed mild steel panels coated with a baked enamel finish. The outdoor unit will come furnished with four (4) mounting feet, mounted across the base pan, to allow bolting to a cement pad or optionally supplied mounting bracket. This assembly will be able to withstand a maximum rated wind pressure of 193psf Lateral, 93psf Uplift. See document TER-16-3146.

The fan shall be a direct drive, propeller type fan. The motor shall be inverter driven, permanently lubricated type bearings, inherent. A fan guard is provided on the outdoor unit to prevent contact with fan operation. Airflow shall be horizontal discharge.

The outdoor coil shall be nonferrous construction with corrugated fin tube. The fins are to be covered with an anti-corrosion acrylic resin and hydrophilic film type E1, rated for up to 1000 hours salt spray. Refrigerant flow from the condenser will be controlled via a metering device.

The outdoor compressor shall be a patented, variable speed Daikin swing inverter-driven compressor. The one piece action reduces noise, extends life, boasts higher efficiency and reduces energy consumption. The outdoor unit shall have an accumulator and four-way reversing valve. PVE Refrigerant Oil shall be used to provide improved lubrication & better chemical stability, and no hydrolysis, leading to higher product reliability. The compressor shall have an internal thermal overload. The outdoor unit can operate with a maximum vertical height difference of 65-5/8 feet and overall maximum length of 98-1/2 feet without any oil traps or additional components.

Ductless Split systems shall be Daikin, Carrier, Trane, Mitsubishi, or equal.

FABRIC DUCT SYSTEM:

Furnish and install a fabric duct distribution system as shown on the Drawings.

Product must be Classified by Underwriter's Laboratories in accordance with the 25/50 flame spread / smoke developed requirements of NFPA 90-A and are also classified in accordance with ICC Evaluation Service AC167.

All product sections must be labeled with the logo and classification marking of Underwriter's Laboratories.

Manufacturer must have documented design support information including duct sizing, vent and orifice location, vent and orifice sizing, length, and suspension. Parameters for design, including maximum air temperature, velocity, pressure and fabric permeability, shall be considered and documented.

Manufacturer shall provide a 5 Year Product Warranty for products supplied for the fabric portion of this system as well as a Design and Performance Warranty.

Air diffusers shall be constructed of a woven fire retardant fabric complying with the following physical characteristics:

- 1. Fabric Construction: 100% Flame Retardant*
- 2. Weight: 5.2 oz. /yd² per ASTM D3776*
- 3. Color: Maroon*
- 4. Air Permeability: 2 (+2/-1) cfm/ft² per ASTM D737, Frazier*
- 5. Temperature Range: 0 degrees F to 180 degrees F*
- 6. Fire Retardancy: Classified by Underwriters Laboratories in accordance with the requirements of NFPA 90-A and AC-167 (noted above).*

Air dispersion shall be accomplished by linear vent and permeable fabric. Linear vent is to consist of an array of open orifices rather than a mesh style vent to reduce maintenance requirements of mesh style vents. Linear vents should also be designed to minimize dusting on fabric surface.

Size of and location of linear vents to be specified and approved by manufacturer.

Inlet connection to metal duct via fabric draw band with anchor patches as supplied by manufacturer. Anchor patches to be secured to metal duct via zip screw fastener – supplied by contractor.

Inlet connection includes zipper for easy removal / maintenance.

Lengths to include required zippers as specified by manufacturer.

System to include Adjustable Flow Devices to balance turbulence, airflow and distribution as needed. Flow restriction device shall include ability to adjust the airflow resistance from 0.06 – 0.60 in w.g. static pressure.

Fabric system shall include connectors to accommodate suspension system listed below. Any deviation from a straight run shall be made using a gored elbow or an efficiency tee. Normal 90 degree elbows are 5 gores and the radius of the elbow is 1.5 times the diameter of the fabric duct system.

Fabric systems shall be designed for 2 inch water gage.

Fabric systems shall be limited to design temperatures between 0 degrees F and 180 degrees F (-17.8 degrees C and 82 degrees C).

Design CFM, static pressure and diffuser length shall be designed or approved by the manufacturer.

The suspension system shall include a double (2 Row) runs of aluminum H-Track system located 1.5” above the 10 and 2 o’clock (2 Row) locations of the system. 2 Row supports are required for systems of 32” diameter and larger. Hardware to include 10’ sections of track, splice connectors, track endcaps and vertical cable support kits – consisting of a length of cable with a locking stud end and Gripple quick cable connectors. Radius aluminum track must be included for all radius sections.

Fabric / Track attachment:

- a. Cord In continuous supporting cord (not suggested for systems >24” Dia.)*
- b. Snap Tabs are a detachable sliding tab positioned every 24” along the length of the system (all diameters).*
- c. Install chosen suspension system in accordance with the requirements of the manufacturer. Instructions for installation shall be provided by the manufacturer with product.*

Clean air handling unit and ductwork prior to the fabric duct system unit-by-unit as it is installed. Clean external surfaces of foreign substance which may cause corrosive deterioration of facing.

Temporary Closure: At ends of ducts which are not connected to equipment or distribution devices at time of ductwork installation, cover with polyethylene film or other covering which will keep the system clean until installation is completed.

If fabric duct systems become soiled during installation, they should be removed and cleaned following the manufacturers standard terms of laundry.

Fabric duct systems shall be Air Distribution Concepts, Duct Sox or equal.

5) SECTION 230900 – AUTOMATIC TEMP CONTROL / BUILDING AUTOMATION SYSTEM

a) Replace Article 1.21 - Boiler Sequence of Operation with the following:

Hot Water Boiler Control with Full Modulation:

Whenever the outdoor air temperature is below 60 deg. F (adj.) or there is a call for heat or reheat, the boiler control sequence will be enabled. The packaged boiler controls shall start the primary hot water circulating pump and, the boiler burner will be energized. The burner will be modulated from low fire to high fire by the packaged boiler controls as required to maintain setpoints. The BAS shall command the boiler LWT setpoint through a 0-10 vdc signal to the packaged boiler controls. The BAS shall command the boiler LWT to reset according to the reset schedule. The reset schedule shall be fully adjustable from the operator's workstation. When the burner has modulated to the low fire position and the load is such that the water temperature to rise above setpoint, the DDC controller will cycle the burner off.

Each pump shall have a current switch to prove pump operation. If flow is not proven after the pump has been commanded to start, an alarm shall be initiated at the BAS

The BAS Contractor shall provide a hand-off-auto switch for automatic or manual control of the boiler. When the switch is in the automatic position, they shall operate as described above.

The BAS shall tie into the packaged boiler controls for the following: Generic boiler fault alarm, 0-10 vdc input for boiler LWT setpoint, Enable/disable the boiler.

Provide a temperature sensor at each boiler for boiler supply and return and system hot water supply and hot water return temperature sensors with remote temperature indication at the operator's workstation.

The package boiler controls shall provide the necessary programming to lead/lag the boilers. The lag boiler shall be enabled if the secondary heating water system temperature set point cannot be maintained for 30 min. (adj.)

Monitor the status of the Emergency Power Off (EPO) switch and provide an alarm at the BAS if either switch is depressed.

Provide control wiring from the boiler to the primary boiler pump starter. Provide control wiring from boiler to boiler for packaged boiler controls to control both boilers. Provide a Bacnet connection to boiler control panel/

Hot Water Reset Control:

The BAS shall reset the secondary heating system supply temperature at an inverse ratio to the outside air temperature. The reset schedule shall be fully adjustable from the operator's workstation but shall originally be set to maintain the hot water supply temperature as follows:

0°F OAT = 120°F HWS

60°F OAT = 100°F HWS

If the system hot water supply temperature is more than 10 degrees F. (adj.) lower than the BAS reset schedule is calling for, an alarm shall be initiated at the operator's workstation. Provide a temperature sensor in each boiler outlet and inlet and system hot water supply and hot water return temperature sensors with remote temperature indication at the operator's workstation.

6) SECTION 323113 – CHAIN-LINK FENCES AND GATES

- a) Omit Section 323113 in its entirety. All chain link fences and gates indicated on the drawings shall be furnished and installed by the Owner.

7) SHEET 2.31 – ENLARGED SITE PLAN (NORTH)

- a) Reference *revised* drawing Sheet 2.31, dated 2-16-23, attached to the end of this addendum for the following modifications:
- i) Provide a 4” PVC sleeve under the pavement at the southeast corner of parking lot; reference revised details.
 - ii) Revised perimeter of landscape areas at entry/exit parking lot intersection.
 - iii) Replace keynote “~~CURB RAMP WITH DETECTABLE WARNING PANEL. SEE DETAIL 7/2.6~~” with “**CURB RAMP WITH DETECTABLE WARNING PANEL. SEE DETAIL 7/2.33**”.
 - iv) Adjust the location of the main parking lot driveway.
 - (1) Location of driveway has been shifted approximately 70’ east to align with future S. Shebal Avenue.
 - (a) The driveway width has also increased to provide for an inbound lane, an outbound left turn lane and an outbound right turn lane onto Twin Creeks Drive. Provide pavement markings as shown.
 - v) The exterior concrete equipment pads shown directly north of door A107-2 shall be 8-inches thick and contain #4 reinforcing bars spaced 16-inches o.c. each way; place pads over a minimum thickness of 24-inches of compacted granular drainage fill.
 - vi) See new plan note **LANDSCAPE ROCK OVER 60MIL WEED BARRIER, BY OWNER** at exterior mechanical equipment yard.
 - vii) Omit the concrete stoop shown immediately north of overhead door opening A111-1; not required.
 - viii) Provide (exterior) steel pipe bollards on either side of the overhead door opening A111-1.
 - ix) Reference miscellaneous section callouts which identify curb type(s).

8) SHEET 2.32 – ENLARGED SITE PLAN (SOUTH)

- a) Provide an 8’-0” wide x 4-inch thick strip of concrete sidewalk adjacent the west side of the 20’-0” wide playground driveway as indicated per *revised* drawing Sheet 2.32, dated 2-16-23, attached to the end of this addendum.
- b) The Contractor shall provide all playground striping as indicated per *revised* drawing Sheet 2.32, dated 2-16-23, attached to the end of this addendum. See added plan note **PAVEMENT MARKING PAINT** throughout the playground area.

- c) The Elementary School Contractor shall furnish and install the four (4) exterior basketball hoops shown at the south end of the playground under his base bid. Reference Section 116623 for additional information.

9) SHEET 2.40 – SITE / SURFACING PLAN

- a) Adjust the location of the main parking lot driveway as indicated per *revised* civil drawing Sheet 2.40, dated 2-16-23, attached to the end of this addendum.
 - i) Location of driveway has been shifted approximately 70' east to align with future S. Shebal Avenue.
 - (1) The driveway width has also increased to provide for an inbound lane, an outbound left turn lane and an outbound right turn lane onto Twin Creeks Drive.
- b) Provide an 8'-0" wide x 4-inch thick strip of concrete sidewalk adjacent the west side of the 20'-0" wide playground driveway as indicated per *revised* civil drawing Sheet 2.40, dated 2-16-23, attached to the end of this addendum.

10) SHEET 3.20-1A – FOUNDATION PLAN-AREA A

- a) Omit the concrete stoop shown immediately north of overhead door opening A111-1; not required.
- b) Modify stoop position at VEST A109 per clouded area on *revised* structural drawing Sheet 3.20-1A, dated 2-16-23, attached to the end of this addendum.

11) SHEET 3.20-1C – FOUNDATION PLAN-AREA C

- a) Modify wall positions near CLASSROOM C123 and C103 per clouded areas on *revised* structural drawing Sheet 3.20-1C, dated 2-16-23, attached to the end of this addendum.

12) SHEET 3.20-2A – ROOF FRAMING PLAN-AREA A

- a) Modify framing at entrance to VEST A109 per clouded area on *revised* structural drawing Sheet 3.20-2A, dated 2-16-23, attached to the end of this addendum.

13) SHEET 3.20-2C – ROOF FRAMING PLAN-AREA C

- a) Modify wall positions near CLASSROOM C123 and C103 per clouded areas on *revised* structural drawing Sheet 3.20-2C, dated 2-16-23, attached to the end of this addendum.

14) SHEET 3.20-3A – CLERESTORY FRAMING PLAN-AREA A

- a) Add steel beam lintels above louver openings in north wall of PENTHOUSE A200 per clouded area on *revised* structural drawing Sheet 3.20-3A, dated 2-16-23, attached to the end of this addendum.

15) SHEET 3.61 – DETAILS-FRAMING

- a) Detail 6: Modify per clouded area on *revised* structural drawing Sheet 3.61, dated 2-16-23, attached to the end of this addendum.

16) SHEET 4.11 – FLOOR PLAN – AREA A

- a) The exterior concrete equipment pads shown directly north of door A107-2 shall be 8-inches thick and contain #4 reinforcing bars spaced 16-inches o.c. each way; place pads over a minimum thickness of 24-inches of compacted granular drainage fill.

17) SHEET 4.13 – FLOOR PLAN – AREA C

- a) Reference *revised* drawing Sheet 4.13, dated 2-16-23, attached to the end of this addendum for the following modifications:
 - i) Adjust the locations of the north and south CMU walls in Classroom C103 & Classroom C123 as shown.
 - ii) Adjust the location of south CMU wall in Classroom C101.
 - iii) Adjust the location of the storm window in C123; reference revised Sheet 4.33 for modified jamb details.
 - iv) Overall building dimension has been added along the north exterior wall of Classroom C104 & Classroom C105.

18) SHEET 4.33 – PLAN DETAILS

- a) Revise storefront jamb details 1/4.33 and 4/4.33; reference *revised* drawing Sheet 4.33, dated 2-16-23, attached to the end of this addendum for revised details.
- b) Revise (Type F) storm shelter window jamb detail 10/4.33 as indicated per *revised* drawing Sheet 4.33, dated 2-16-23; see revised drawing Sheet 4.33 attached to the end of this addendum for additional information.

19) SHEET 4.34 – PLAN DETAILS

- a) Revise aluminum window jamb detail 11/4.34 as indicated per *revised* drawing Sheet 4.34, dated 2-16-23; see revised drawing Sheet 4.34 attached to the end of this addendum for additional information.
- b) Revise (Type F) storm shelter window jamb detail 13/4.34 as indicated per *revised* drawing Sheet 4.34, dated 2-16-23; see revised drawing Sheet 4.34 attached to the end of this addendum for additional information.

20) SHEET 4.40 – ENLARGED TOILET ROOMS

- a) CLARIFICATION: One (1) urinal in restroom Men B104 shall be installed with the rim 17” A.F.F.; reference toilet fixture mounting height on Sheet 4.41.

21) SHEET 5.13 – ALUMINUM WINDOW AND STOREFRONT ELEVATIONS

- a) WINDOW TYPES SCHEDULE: Head, jamb and sill detail references for storm shelter windows Type F shall be changed to 15/5.14 (Head Detail), 10/4.33 & 13/4.34 (Jamb Details) and 16/5.14 (Sill Detail) as indicated in the *revised* drawing Sheet 5.13, dated 2-16-23, attached to the end of this addendum.
- b) Reference *revised* drawing Sheet 5.13, dated 2-16-23, attached to the end of this addendum for revisions to aluminum storefront elevations 5 & 6.
- c) Adjust the horizontal mullion height at storefront elevations 1, 2, 7, 8, 12, 13 & 15 as shown per *revised* drawing Sheet 5.13, dated 2-16-23, attached to the end of this addendum.
- d) CLARIFICATION: All clerestory level windows (window Type E) shall be aluminum storefront with 1-inch insulated glass, as specified per Section 084113. Disregard all reference to pre-glazed aluminum window systems at these locations.

22) SHEET 5.14 – WINDOW AND STOREFRONT DETAILS

- a) Exterior Storm Shelter Window Details: Reference newly added HEAD DETAIL - 15/5.14 and SILL DETAIL - 16/5.14 on *revised* drawing Sheet 5.14, dated 2-16-23, attached to the end of this addendum for correct Type F window head and sill details.

23) SHEET 5.25 – STAIR AND RAILING SECTIONS AND DETAILS

- a) SECTION 2/5.25 – CLARIFICATION: Pipe handrail keynote shall be changed to 1 ½” O.D. pipe handrail on both sides of “STAIR” in lieu of RAMP.

24) SHEET 5.31 – SECTION DETAILS

- a) CLARIFICATION: All clerestory level windows (window Type E) shall be aluminum storefront with 1-inch insulated glass, as specified per Section 084113. Disregard all reference to a pre-glazed aluminum window system at detail 6/5.31.

25) SHEET 5.34 – SECTION DETAILS

- a) CLARIFICATION: All clerestory level windows (window Type E) shall be aluminum storefront with 1-inch insulated glass, as specified per Section 084113. Disregard all reference to a pre-glazed aluminum window system at detail 2/5.34.

26) SHEET 6.10 – REFLECTED CEILING PLAN – AREA A

- a) Modify the ceiling grid layout and the location of the light fixture in VESTIBULE 109 as indicated per *revised* drawing Sheet 6.10, dated 2-16-23, attached to the end of addendum.
- b) Furnish and install prefinished metal soffit panels above the entrance alcove located north of door A109-1 as indicated per *revised* drawing Sheet 6.10, dated 2-16-23, attached to the end of addendum.

27) SHEET 10.11 – FOOD SERVICE EQUIPMENT SCHEDULE

- a) Reference food service equipment Item No. 4 (Serving Counter w/ Cutout):
 - i) Omit the **Equipment Remark** which states “*PROVIDE FLUSH FLOOR RECEPTACLE*”. This piece of food service equipment does not require power; see revised electrical drawings for additional information.
- b) Replace Food Service Equipment Item No. 27 with the following:

ITEM 27 - SHELVING, WALL MOUNTED (4 REQ'D)

Advance Tabco Model WS-10-48 Dimensions: 8.5(h) x 48(w) x 10(d) Shelf, wall-mounted, 48"W x 10"D, 1-5/8" bullnose front edge, 1-1/2"H rear up-turn, 18/430 satin finish stainless steel, NSF. Mount 2 on either side of sinks

MECHANICAL ITEMS:

1) SHEET 8.25 – FLOOR PLAN – AREA B – PLUMBING & HEATING

- a) Add FP-B140A and B140B and associated piping. Reference *revised* mechanical drawing Sheet 8.25, dated 2-16-23, attached to the end of addendum for additional information.

2) SHEET 8.27 – MECH ROOM & PENTHOUSE PLANS–AREA A, B & C–PLMBG & HEATING

- a) Modify mechanical plan note 34 to read: ***134 GALLON HEATING WATER EXPANSION TANK. SEE SPECIFICATIONS.***
- b) Modify mechanical plan note 35 to read: ***134 GALLON CHILLED WATER EXPANSION TANK. SEE SPECIFICATIONS.***

3) SHEET 8.40 – FLOOR PLAN – AREA A - VENTILATION & AIR CONDITIONING

- a) Provide a G2 grille in ceiling of room A109.

4) SHEET 8.41 – FLOOR PLAN – AREA B - VENTILATION & AIR CONDITIONING

- a) Provide a G2 grille in ceiling of room B121.

5) SHEET 8.42 – FLOOR PLAN – AREA C - VENTILATION & AIR CONDITIONING

- a) Provide G2 grilles in the ceilings of rooms C106 and C109.
- b) Provide 30/14 transfer between C106 and the adjacent corridor.

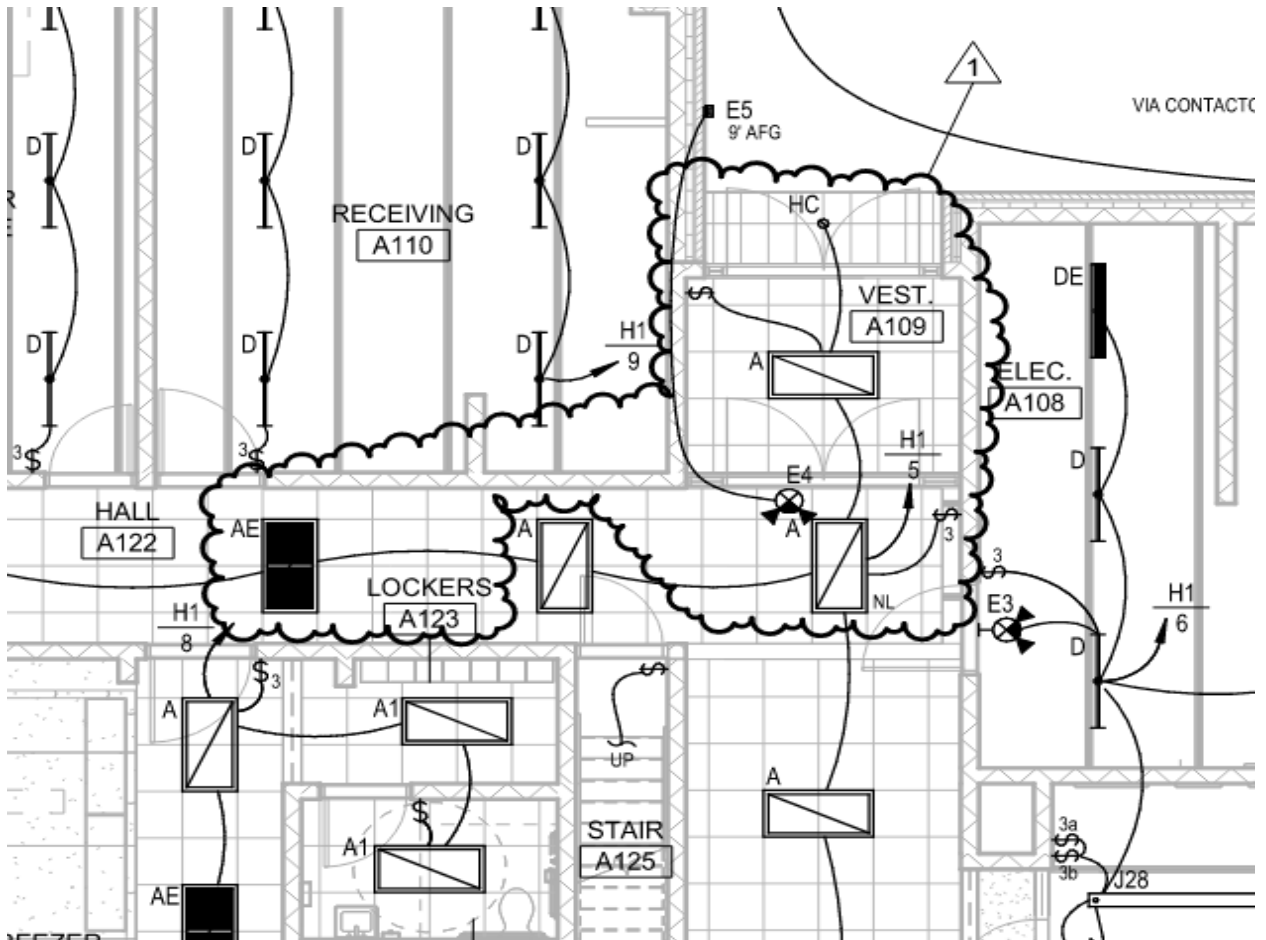
6) SHEET 8.50 – SCHEDULES

- a) Pump Schedule: Pump P-5 and P-6 shall be Bell & Gossett inline pump model E-80.
- b) Boiler Schedule: Modify Remark #1 as follows: ***PROVIDE CONDENSATE NEUTRALIZER.***

ELECTRICAL ITEMS:

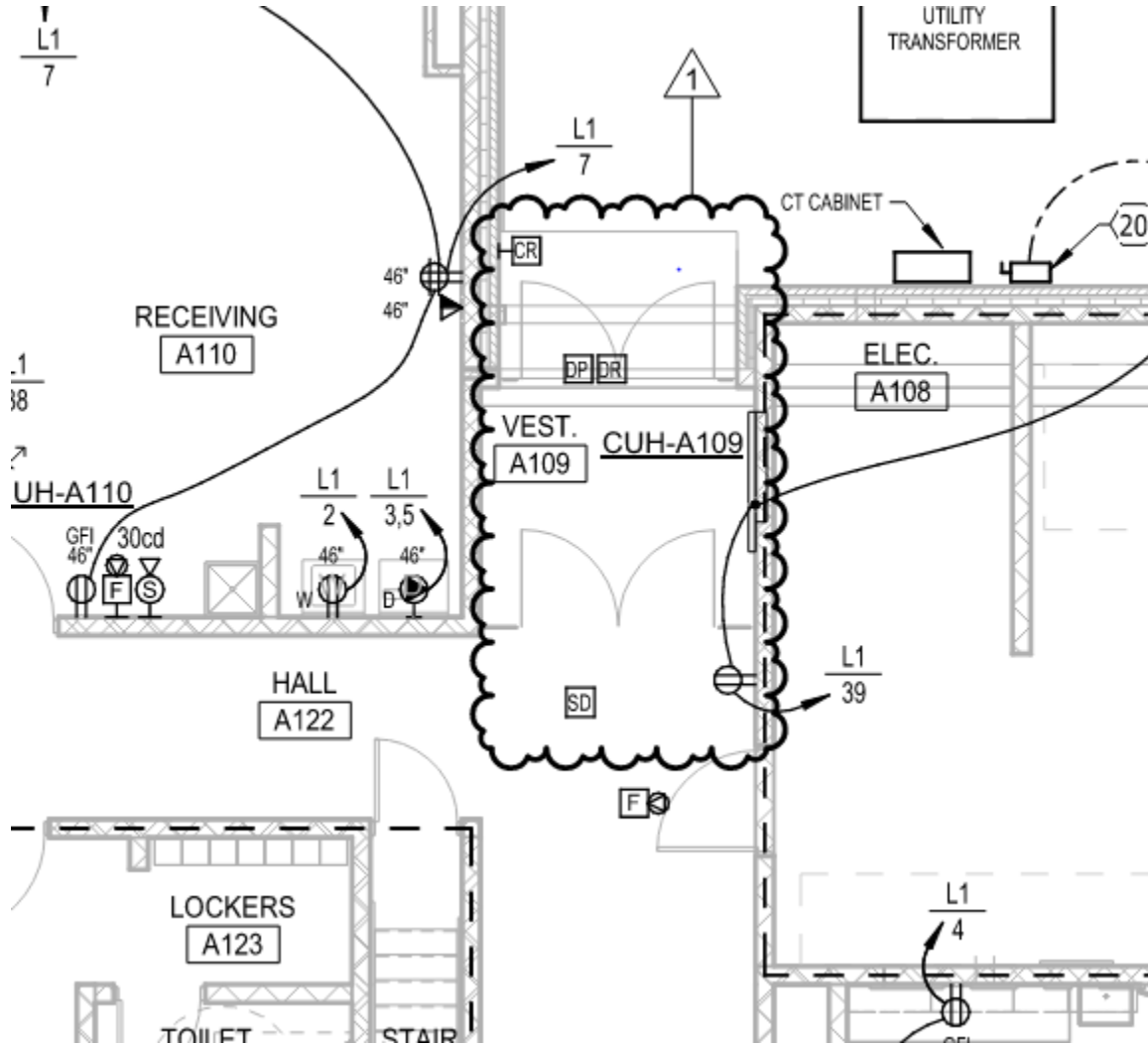
1) SHEET 9.20 – FLOOR PLAN – AREA A - LIGHTING

- a) See clouded areas in snip below for interior lighting revisions in Lockers A123 and Vestibule A109.



2) SHEET 9.21 – FLOOR PLAN – AREA A – POWER & SIGNAL

a) See clouded areas in snip below for electrical revisions in Vestibule A109.



3) SHEET 9.28 – ENLARGED KITCHEN PLAN – ELECTRICAL

a) Omit the flush floor receptacle shown serving food service equipment Item No. 4 (*Solid Top Serving Counter*) in Servery A130; this food service equipment item does not require power.

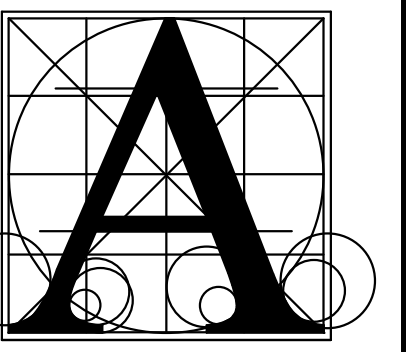
GENERAL APPROVALS:

The following material or equipment furnished by the manufacturers listed, may be substituted as equivalent providing that each item, material, and piece of equipment conforms to the design and requirement of the specifications.

<u>SECTION</u>	<u>ITEM</u>	<u>MANUFACTURER</u>
033000	Under-Slab Sheet Vapor Retarder	ISI Building Products – <i>Viper Vaporcheck II</i> ; 15 mil, Class A
034500	Precast Architectural Concrete	SteinBauer, LLC; Faulkton, SD
087100	Power-Assist Closer	Stanley Magic Force Heavy Duty Swing Door Operator
088000	Insulating Glass	Oldcastle - <i>Guardian SunGuard SuperNeutral 68 #2 / Guardian Clear</i>
088000	Insulating Glass	Oldcastle - <i>Guardian Gray / Guardian SunGuard Neutral 78/65 #3</i>
116623	Gymnasium Equipment	ADP Lemco
220600	Ice Storage	Phase Change
220600	Radiant Floor Heating System	HeatLink
230800	Registers, Grilles and Diffusers	Greenheck
230800	Air Handling Units	VTS, Dunham Bush
230800	Air Cooled Chiller	Dunham Bush
230800	Fan Powered VAVs	Greenheck
230800	VAVs	Greenheck
230800	Split System	Lennox
230800	Fabric Duct	Prihoda, Fabric Air
230800	Kitchen Hood	GreaseMaster, Captive Aire
230800	Exhaust/Relief Hood	Twin City Fans
265110/265210	Interior Lighting/Exterior Lighting Type A Series	ABL

Type C Series	ABL
Type D Series	ABL
Type E, E1, E2, E3, E4, E5	ABL
Type E6	ABL
Type F Series	ABL
Type H Series	ABL
Type J and K Series	ABL
Type M Series	ABL
Type Y Series	ABL
Type Z	ABL

END OF ADDENDUM No. 2



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HARRISBURG ELEMENTARY SCHOOL #8

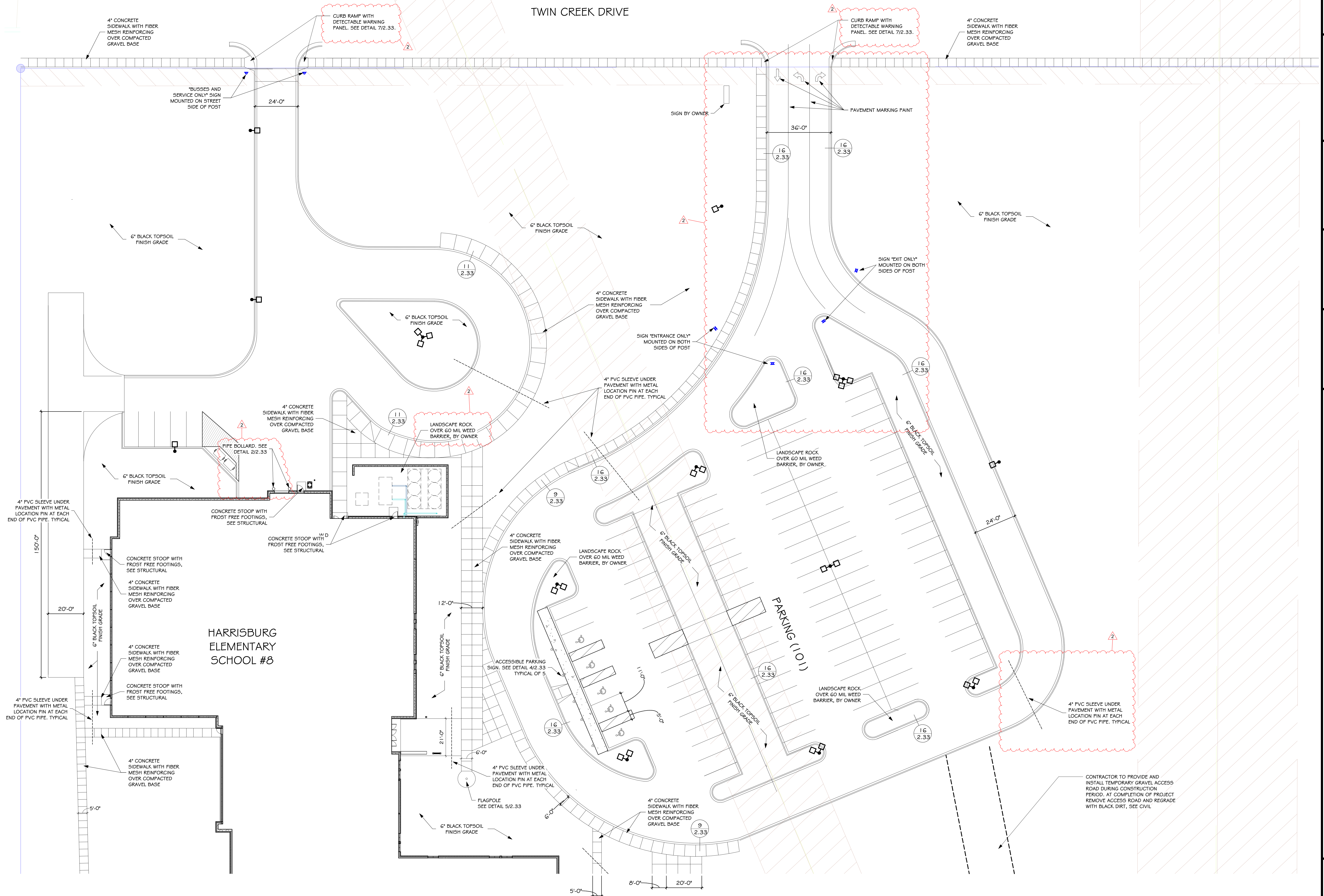
ENLARGED SITE PLAN - NORTH

Project Number	1011.3000.22
Date	JANUARY 27, 2023
Revision	
Drawn	ZJG
Checked	SRJ

DATE	DESCRIPTION
2/16/2023	ADDENDUM #2

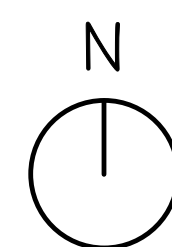
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TWIN CREEK DRIVE

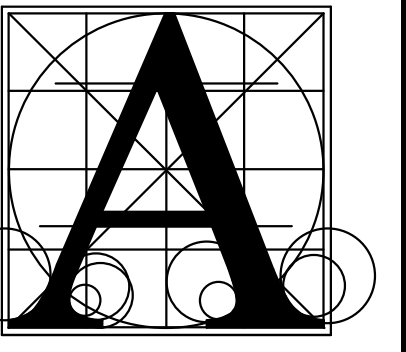


HARRISBURG
ELEMENTARY
SCHOOL #8

SITE PLAN - NORTH
SCALE: 1" = 20'-0"



2/15/2023 2:02:06 PM



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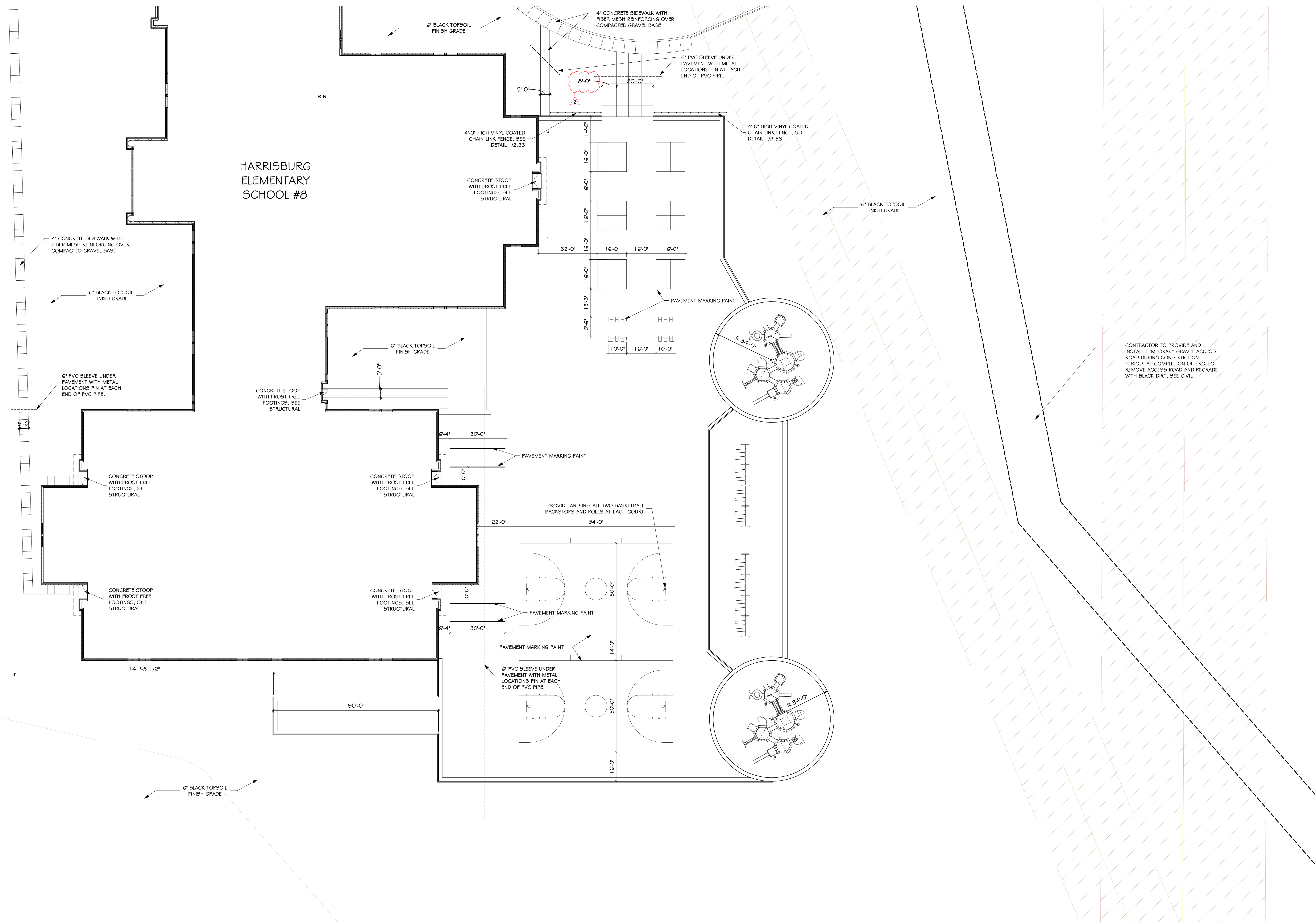
HARRISBURG ELEMENTARY SCHOOL #8
ENLARGED SITE PLAN - SOUTH

Project Number: 1011.3000.22
Date: JANUARY 27, 2023
Revision:
Drawn: ZJG checked: SRJ

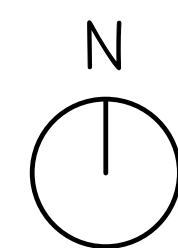
DATE	DESCRIPTION
2/16/2023	ADDENDUM #2

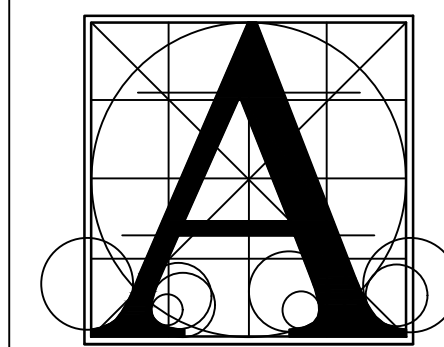
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**HARRISBURG
ELEMENTARY
SCHOOL #8**



SITE PLAN - SOUTH
SCALE: 1" = 20'-0"

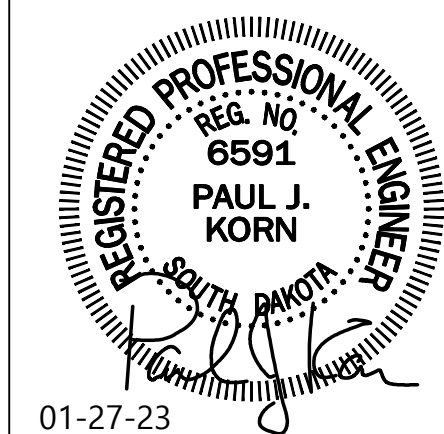




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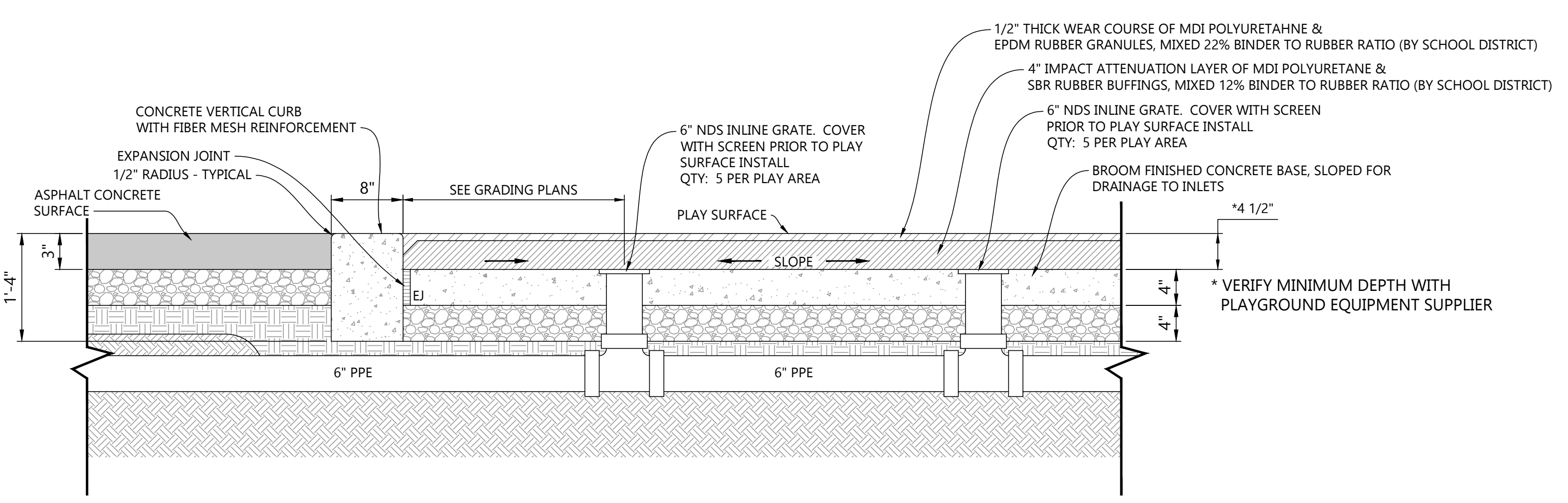
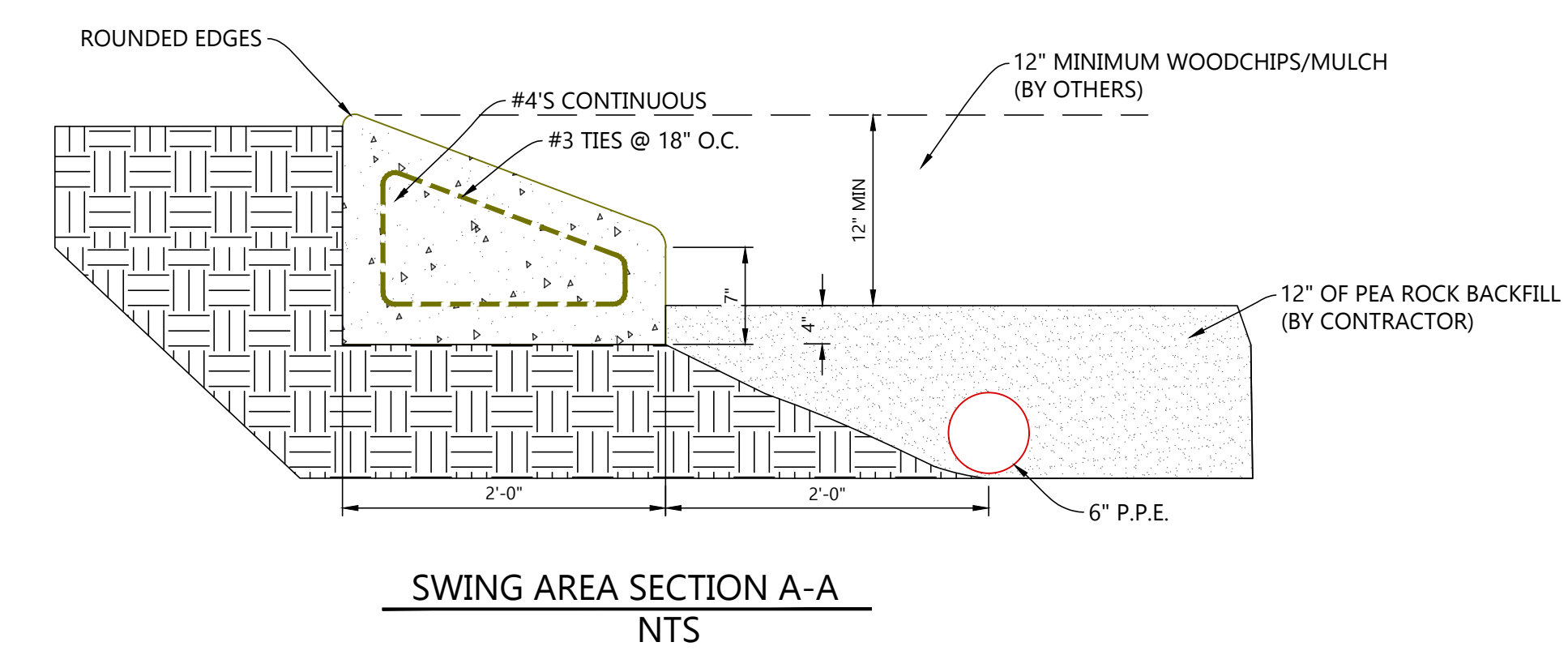
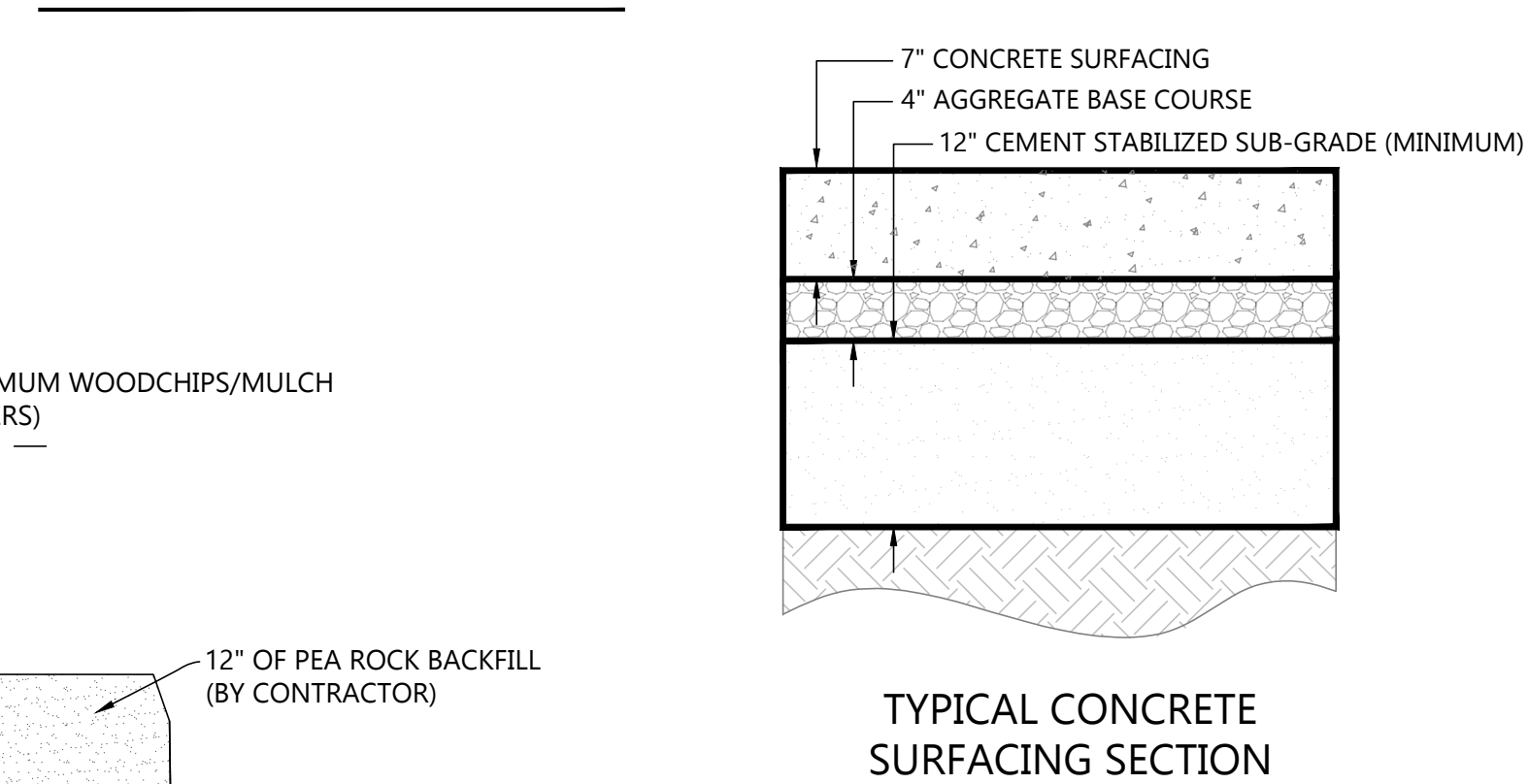
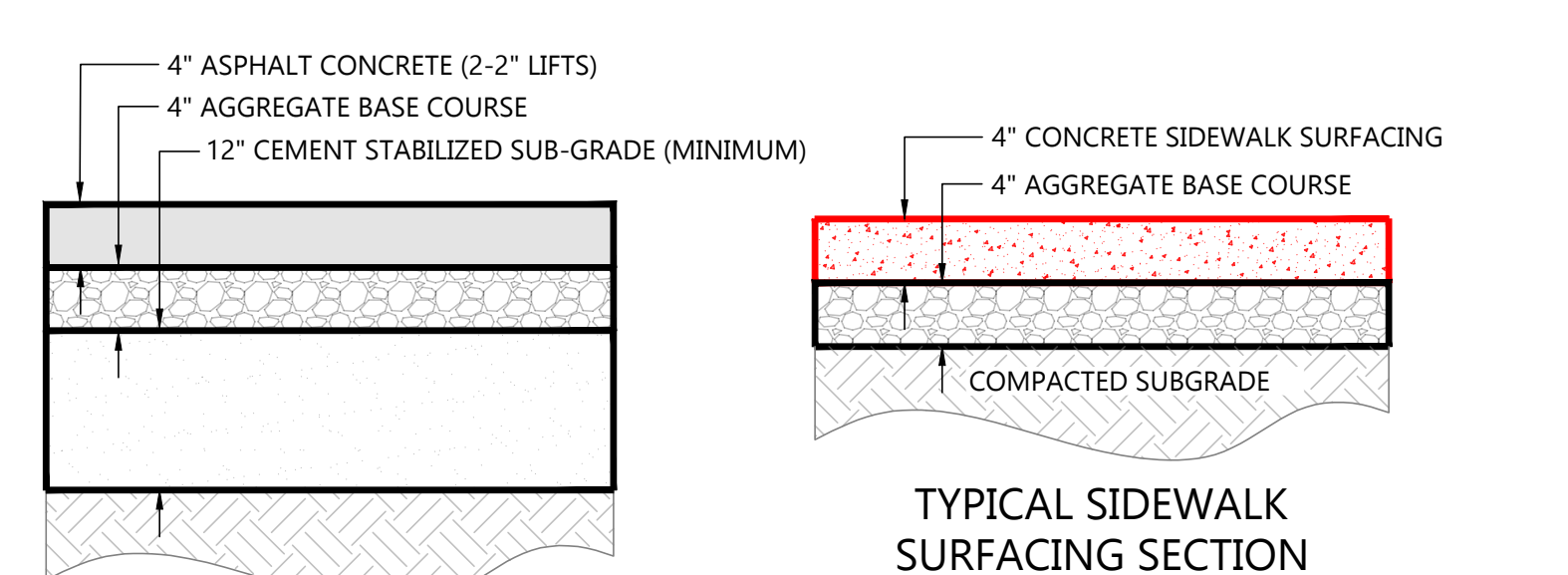
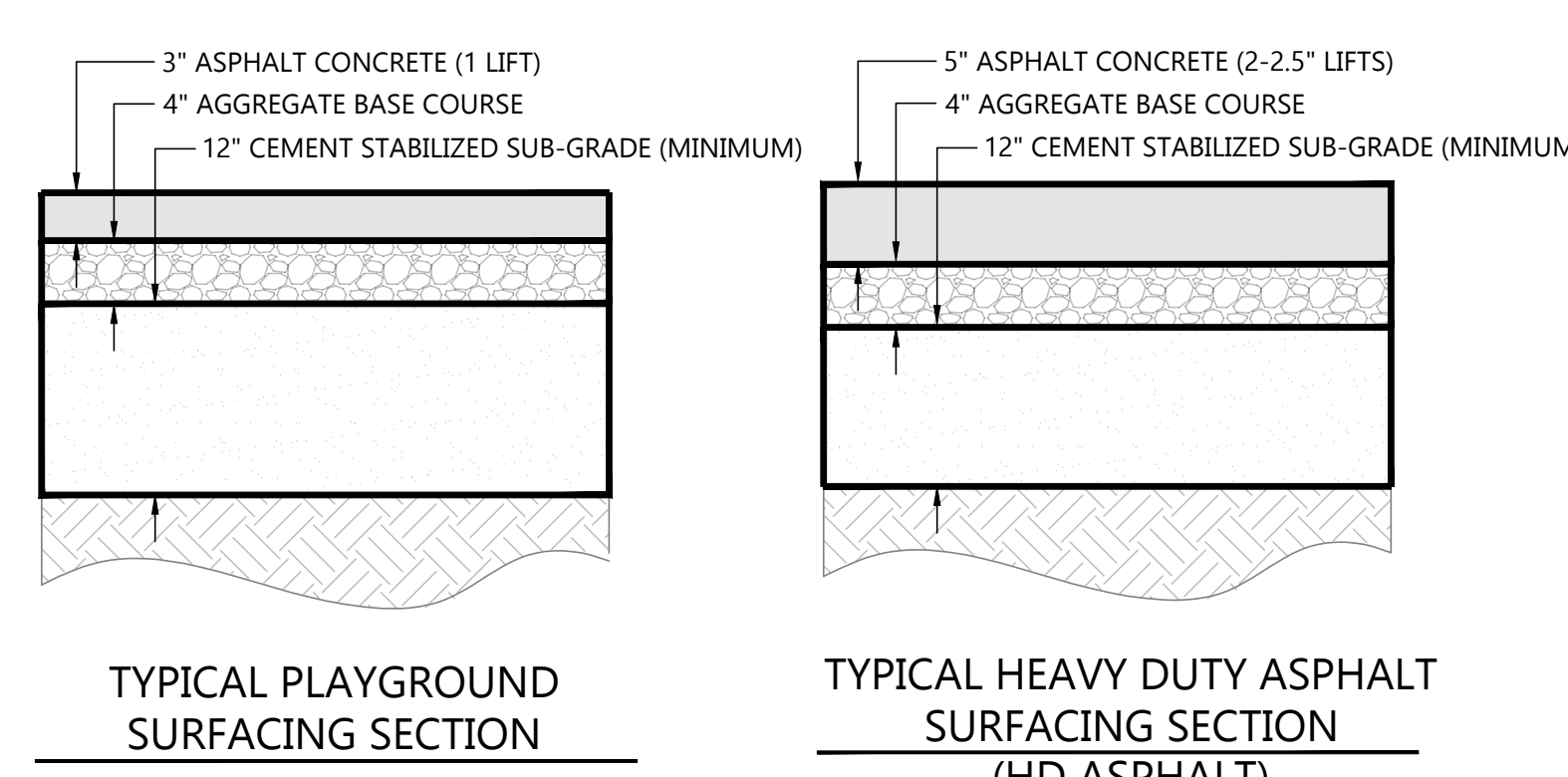
Sayre Associates
Engineers - Surveyors

LEGEND

- STREET LIGHT
- 4" YELLOW PAVEMENT MARKING
- EXISTING CURB & GUTTER
- EXISTING EDGE OF ASPHALT
- EXISTING SIDEWALK
- PROPOSED EDGE OF ASPHALT SURFACING
- PROPOSED SIDEWALK
- PROPOSED CURB & GUTTER
- PROPOSED TIP GUTTER OUT
- PROPOSED BUILDING
- PROPOSED CONCRETE SIDEWALK (4")
- PROPOSED CONCRETE SIDEWALK (7")
- PROPOSED ADA RAMP
- ADA WARNING PANEL
- PROPOSED HEAVY DUTY ASPHALT SECTION
- PROPOSED LIGHT DUTY ASPHALT SECTION
- PROPOSED PLAYGROUND ASPHALT SECTION

SITE NOTES:

- LEGAL DESCRIPTION: TRACT 1 OF TWIN CREEKS ADDITION AN ADDITION TO THE CITY OF HARRISBURG, LINCOLN COUNTY, SOUTH DAKOTA.
- THIS PROPERTY IS CURRENTLY ZONED: R-2 - RESIDENTIAL (LOW DENSITY).
- SETBACK LIMITS:
FRONT - 25'
SIDE - 7'
REAR - 20'
- PARKING SUMMARY
96 STALLS
2 ADA VAN ACCESSIBLE
3 ADA ACCESSIBLE
101 TOTAL PARKING STALLS
- IRRIGATION, FENCE, LANDSCAPING, SOD, SEEDING AND TREES ARE BY SCHOOL DISTRICT.



- NOTE:**
- PRIOR TO INSTALLING CONCRETE BASE, THE PLAYGROUND CONTRACTOR SHALL MARK PLAY EQUIPMENT POST LOCATIONS AND PLACE SONOTUBES IN CORRESPONDING LOCATIONS. PLAY EQUIPMENT TO BE SET AFTER CONCRETE HAS CURED, THE AREAS AROUND POSTS FILLED, AND THE PLAY SURFACE INSTALLED.
 - THE POURED-IN-PLACE RUBBER SURFACING WILL BE INSTALLED BY THE SCHOOL DISTRICT UNDER A SEPARATE CONTRACT.

BENCHMARK NO. 1:
TOP OF FIRE HYDRANT 545' ±
NORTH OF S. CLIFF AVE. & TWIN
CREEKS DRIVE INTERSECTION
ELEV. = 1405.84 (88 DATUM)

BENCHMARK NOTE:
THE ELEVATION BASIS OF THIS SURVEY IS BASED ON GPS OBSERVATION OF THE TRIMBLE VIRTUAL REFERENCE STATION (VRS) SYSTEM AND IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

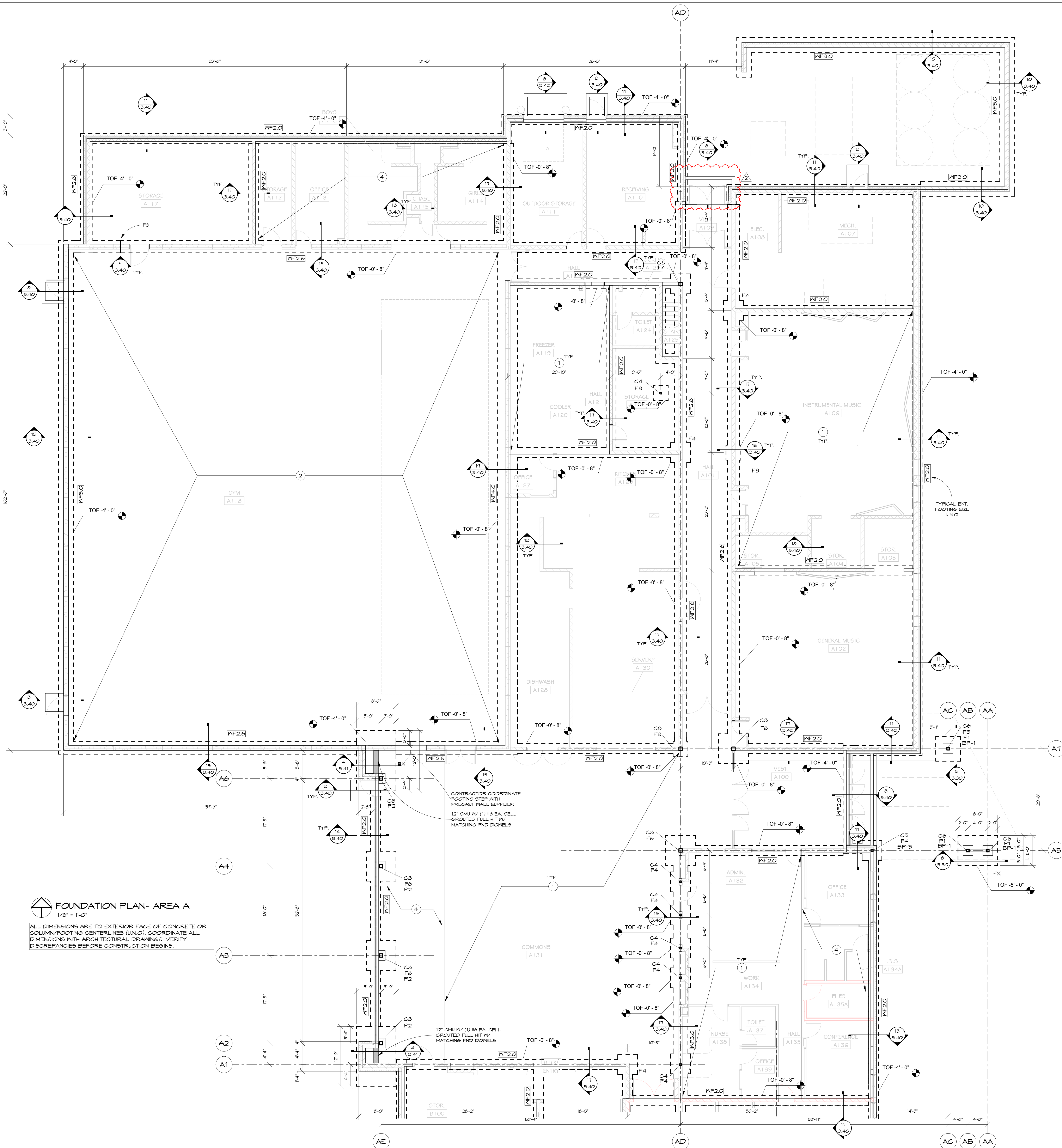
BY: BJB, 23289 P.dwg, SITE, PRINT DATE: Feb 14, 2023

HARRISBURG ELEMENTARY #8

SITE / SURFACING PLAN

number 3000.22
date 01-27-23
revision 02.16.23
drawn BJB checked PJK

2.40

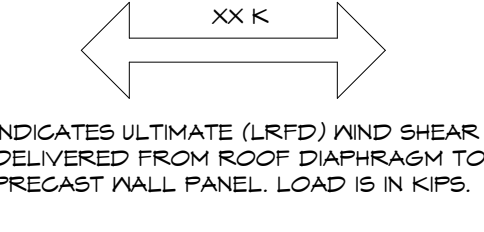


FOUNDATION PLAN- AREA A
1/8" = 1'-0"

ALL DIMENSIONS ARE TO EXTERIOR FACE OF CONCRETE OR COLUMN/FOOTING CENTERLINES (U.O.). COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. VERIFY DISCREPANCIES BEFORE CONSTRUCTION BEGINS.

CONTRACTOR COORDINATE FOOTING STEP WITH PRECAST WALL SUPPLIER
12" CMU W/ (1) #6 EA. CELL GROUDED FULL HIT W/ MATCHING FND DOVELLS

12" CMU W/ (1) #6 EA. CELL GROUDED FULL HIT W/ MATCHING FND DOVELLS



FOUNDATION GENERAL NOTES

1. COLUMN BASEPLATES AND ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH DETAIL (UO) 1 / 3.30
2. APPLY BP-1 TYPICAL UNLESS INDICATED BP-# ON THE FOUNDATION PLANS.
3. CONCRETE PIER DETAILS ARE INDICATED THIS "PI" REFER TO SHEET 3.30 FOR TOP OF PIER DETAILS.
4. TYPICAL CONCRETE FOUNDATION WALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH DETAILS 1 / 3.40, 2 / 3.40, 3 / 3.40
5. SPLICE ALL REBAR ACCORDING TO SPLICE TABLE ON DETAIL 3 / 3.40
6. COORDINATE PIPE RUNS UNDER FOOTINGS, THROUGH FOUNDATION WALLS, OR ADJACENT TO FOUNDATION WALLS PER DETAILS 5 / 3.40 & 6 / 3.40
7. SLAB-ON-GRADE JOINTS SHALL COMPLY W/ DETAIL 4 / 3.40
8. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF SLOPED, RAISED, OR DEPRESSED SLABS.
9. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE ALL SLAB PENETRATIONS W/ MECHANICAL, ELECTRICAL, OR ARCHITECTURAL DRAWINGS.
10. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE ALL STOOP LOCATIONS AND SIZES W/ THE ARCHITECTURAL AND SITE PLANS. PROVIDE A STOOP AT ALL EXTERIOR EXIT DOOR LOCATIONS UNLESS INDICATED OTHERWISE BY THE ARCHITECT. ALL THE REQUIRED STOOPS MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS.
11. CONTINUE REINFORCING FOR CONTINUOUS WALL FOOTINGS THROUGH PAD FOOTINGS (TYPICAL).
12. NON-LOAD BEARING (NO DECK OR JOIST BEARING) INTERIOR MASONRY WALLS SHALL HAVE THICKENED SLAB FOOTINGS PER DETAIL 10 / 3.40 (UO).
13. 6" C. COORDINATE EXACT LOCATION W/ ELECTRICAL EQUIPMENT SUPPLIER. ELECTRICAL ENGINEER, UPPER GROUND CONSTRUCTION SHALL BE IN ACCORDANCE WITH DETAIL 7 / 3.40

FOUNDATION PLAN NOTES

1. SLAB ON GRADE:
4" CONCRETE OVER FREE-DRAINING GRANULAR BASE AS REQUIRED BY GEOTECHNICAL REPORT. PROVIDE #3 REINFORCING BARS @ 2'-0" ON CENTER EACH WAY CENTERED AT MID-DEPTH AND SUPPORTED WITH CHAIRS OF BOLSTERS. SPACE CONTROL JOINTS AT 20'-0" MAXIMUM.
2. SLAB ON GRADE:
4" CONCRETE OVER FREE-DRAINING GRANULAR BASE AS REQUIRED BY GEOTECHNICAL REPORT. PROVIDE MICROFIBER MESH @ DOSEAGE RATE OF 4 POUNDS/YARD (STRUN 40/40 OR APPROVED EQUAL). RECESS FLOOR 3" W/ VERIFY FINAL FLOOR ELEVATION W/ FLOORING SUPPLIER & ARCH DWS.
3. SHEARWALL HOLDOWN LOCATION AT BASE OF WALL. SEE SHEARWALL ELEVATION ON FRAMING PLANS. PROVIDE SIMPSON HOLDOWN PER OTHER DETAILS.
4. SLAB ON GRADE:
5" CONCRETE SLAB OVER INSULATION OVER FREE DRAINING GRANULAR BASE. PROVIDE #3 REINFORCING BARS @ 2'-0" EACH WAY. DO NOT SAWN CUT CONTROL JOINTS. SEE MEP DWS FOR SPECIFIC AREA.

MASONRY WALL GENERAL NOTES

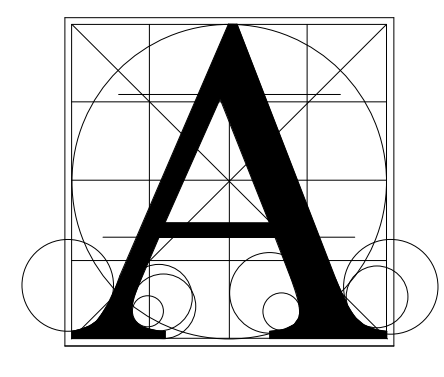
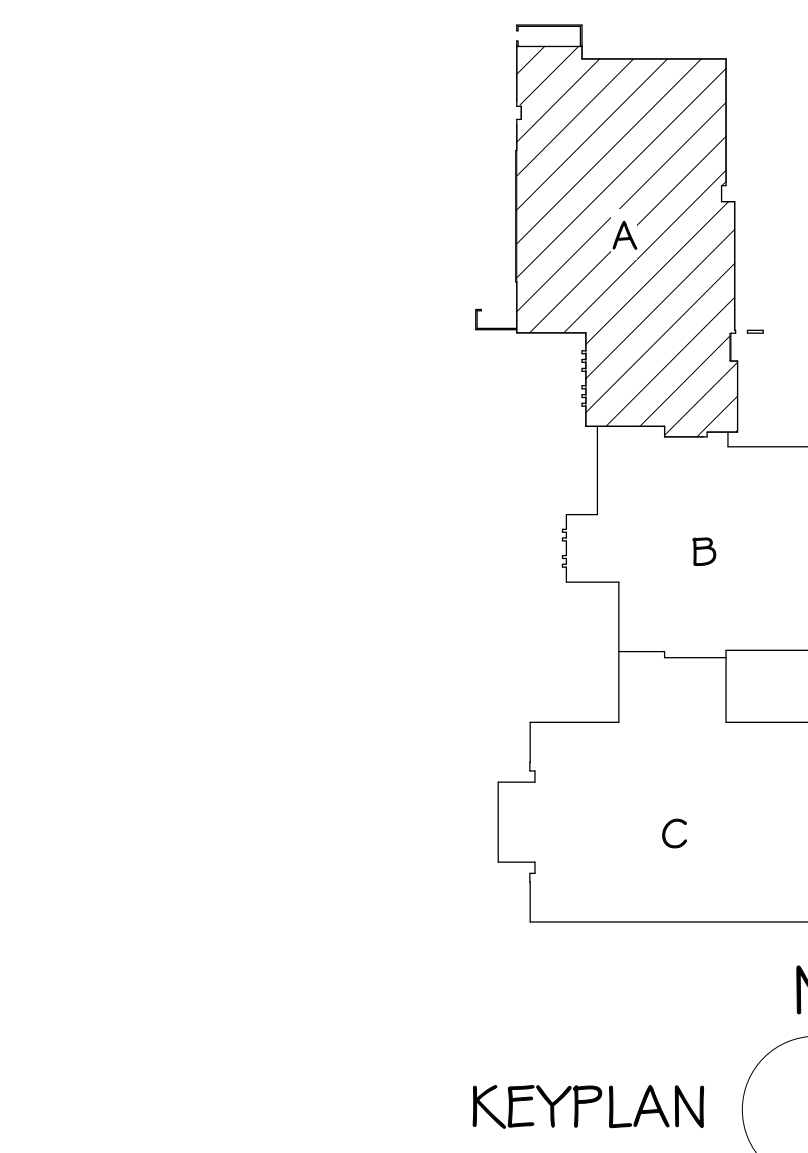
1. PROVIDE THE FOLLOWING MINIMUM CMU WALL REINFORCEMENT U.O. ON THE PLANS AND THE DETAILS. LOCATE VERTICAL BARS PER DETAIL 2 / 3.52
2. 6" OR 8" INTERIOR NON-JOIST OR DECK BEARING WALLS: (1)-#5 VERTICAL @ 8'-0" OC
3. 8" INTERIOR JOIST OR DECK BEARING WALLS: (1)-#5 VERTICAL @ 4'-0" OC
4. 8" EXTERIOR WALLS: (1)-#5 VERTICAL @ 4'-0" OC
5. 12" WALLS: (1)-#6 VERTICAL @ 2'-0" OC
6. 6" & 8" CMU WALL BOND BEAMS SHALL HAVE (2)-#4 CONTINUOUS
7. 12" CMU WALL BOND BEAMS SHALL HAVE (2)-#6 CONTINUOUS
8. PROVIDE (2)-CORNER BARS TO MATCH BOND BEAM REINFORCING @ ALL CORNERS
9. PROVIDE CONTINUOUS BOND BEAMS AT TOP OF WALL, JOIST AND DECK BEARING, AND 3'-0" OC
10. PROVIDE BOND BEAMS BELOW WINDOWS, EXTEND 24" EACH SIDE BEYOND OPENINGS
11. REFER TO ARCHITECTURAL DRAWINGS FOR MASONRY CONTROL JOINT LOCATIONS. TYPICAL CONTROL JOINT CONSTRUCTION SHALL BE IN ACCORDANCE WITH DETAIL 1 / 3.52
12. CONSTRUCT INTERIOR CMU WALL INTERSECTIONS PER DETAIL 3 / 3.52
13. CONSTRUCT MASONRY FOR STEEL BEAM BEARING PER DETAIL 5 / 3.52
14. PROVIDE TYPICAL STEEL BEAM LINTEL CONSTRUCTION PER DETAIL 4 / 3.52

FOOTING SCHEDULE

TYPE MARK	DESCRIPTION	REINFORCING
F3	3'-0" WIDE X 1'-0" THICK	(4)-#4 EACH WAY BOTTOM
F4	4'-0" WIDE X 1'-0" THICK	(4)-#4 EACH WAY BOTTOM
F5	5'-0" WIDE X 1'-0" THICK	(5)-#4 EACH WAY BOTTOM
F6	6'-0" WIDE X 1'-0" THICK	(7)-#4 EACH WAY BOTTOM
F7	7'-0" WIDE X 1'-0" THICK	(7)-#4 EACH WAY BOTTOM
FX	SEE PLAN X 1'-0" THICK	#6 @ 8" OC EA. WAY TOP & BOTTOM
NF2.0	2'-0" WIDE X 1'-0" THICK	(2) #5 CONTINUOUS BOTTOM
NF2.6	2'-0" WIDE X 1'-0" THICK	(3) #5 CONTINUOUS BOTTOM
NF3.0	3'-0" WIDE X 1'-0" THICK	(4) #5 CONTINUOUS BOTTOM
NF4.0	4'-0" WIDE X 1'-0" THICK	(4) #5 CON. BOT. & #6 @ 15" OC TRANSVERSE BOT.
NF4.0-1	4'-0" WIDE X 1'-0" THICK	(4) #5 CONTINUOUS BOTTOM
NF7.0	7'-0" WIDE X 1'-4" THICK	(2) #5 CONTINUOUS BOTTOM

COLUMN SCHEDULE

MARK	TYPE
C4	H54X41/4
C4C	H54X41/2
C6	H69X41/4
C6	H69X41/4
C8	H85X41/4



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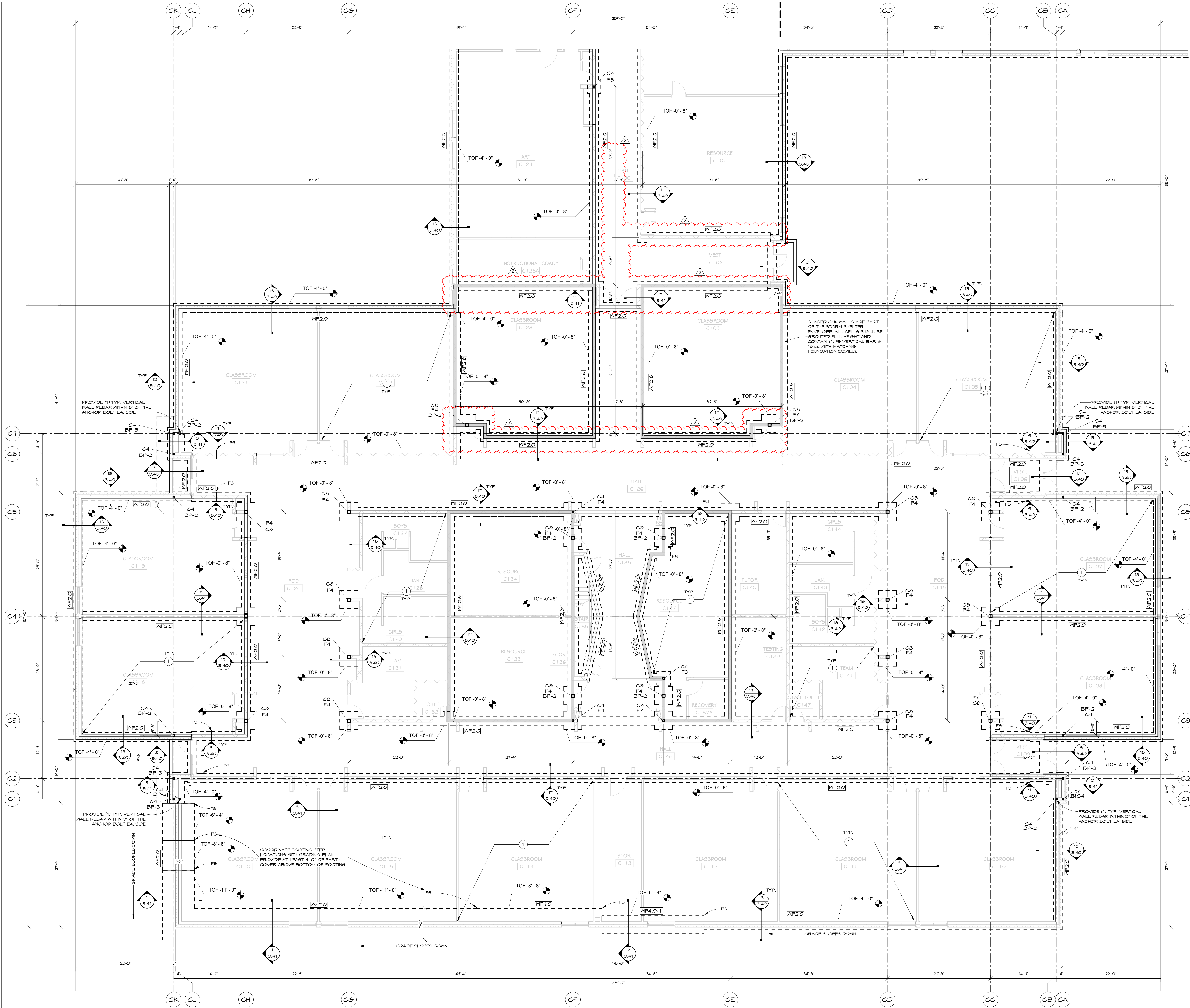
515 South Cliff Ave., Ste 200
Sioux Falls, SD 57104
Phone: 605-333-4071
Fax: 605-332-2116
www.apexsfr.com
APEX
STRUCTURAL DESIGN, LLC

HARRISBURG ELEMENTARY SCHOOL #8
FOUNDATION PLAN- AREA A

Project: HARRISBURG ELEMENTARY SCHOOL #8
number: 1011.3000.22
date: 01/27/2023
revision:
drawn: MW checked: JP

DATE	DESCRIPTION
2-02/16/23	APPENDUM # 2

3.20-1A



- ### MASONRY WALL GENERAL NOTES
1. PROVIDE THE FOLLOWING MINIMUM CMU WALL REINFORCEMENT UNLESS OTHERWISE NOTED. LOCATE VERTICAL BARS PER DETAIL 2 / 3.52
 2. 6" OR 8" INTERIOR NON-JOIST OR DECK BEARING WALLS: (1) #5 VERTICAL @ 4'-0" OC
 3. 8" INTERIOR JOIST OR DECK BEARING WALLS: (1) #5 VERTICAL @ 4'-0" OC
 4. 8" EXTERIOR WALLS: (1) #5 VERTICAL @ 4'-0" OC
 5. 12" WALLS: (1) #5 VERTICAL @ 2'-0" OC
 6. 6" OR 8" CMU WALL BOND BEAMS SHALL HAVE (2) #4 CONTINUOUS
 7. 12" CMU WALL BOND BEAMS SHALL HAVE (2) #6 CONTINUOUS
 8. PROVIDE (2) CORNER BARS TO MATCH BOND BEAM REINFORCING @ ALL CORNERS
 9. PROVIDE CONTINUOUS BOND BEAMS AT TOP OF WALL, JOIST AND DECK BEARING, AND 2'-0" OC
 10. PROVIDE BOND BEAMS BELOW WINDOWS, EXTEND 24" EACH SIDE BEYOND OPENINGS
 11. REFER TO ARCHITECTURAL DRAWINGS FOR MASONRY CONTROL JOINT LOCATIONS. TYPICAL CONTROL JOINT CONSTRUCTION SHALL BE IN ACCORDANCE WITH DETAIL 1 / 3.52
 12. CONSTRUCT INTERIOR CMU WALL INTERSECTIONS PER DETAIL 3 / 3.52
 13. CONSTRUCT MASONRY FOR STEEL BEAM BEARING PER DETAIL 5 / 3.52
 14. PROVIDE TYPICAL STEEL BEAM LINTEL CONSTRUCTION PER DETAIL 4 / 3.52

- ### FOUNDATION PLAN NOTES
1. SLAB ON GRADE: 4" CONCRETE OVER FREE-DRAINING GRANULAR BASE AS REQUIRED BY GEOTECHNICAL REPORT. PROVIDE #3 REINFORCING BARS @ 2'-0" ON CENTER EACH WAY CENTERED AT MID-DEPTH AND SUPPORTED WITH CHAIRS OF BOLSTERS. SPACING CONTROL JOINTS AT 20'-0" OC MAXIMUM.
 2. SLAB ON GRADE: 4" CONCRETE OVER FREE-DRAINING GRANULAR BASE AS REQUIRED BY GEOTECHNICAL REPORT. PROVIDE #3 REINFORCING BARS @ 2'-0" ON CENTER EACH WAY CENTERED AT MID-DEPTH AND SUPPORTED WITH CHAIRS OF BOLSTERS. SPACING CONTROL JOINTS AT 20'-0" OC MAXIMUM.
 3. SHEARWALL HOLD-DOWN LOCATION AT BASE OF WALL. SEE SHEARWALL ELEVATION ON FRAMING PLANS. PROVIDE SIMPSON HOLD-DOWN PER OTHER DETAILS.
 4. SLAB ON GRADE: 5" CONCRETE SLAB OVER INSULATION OVER FREE DRAINING GRANULAR BASE. PROVIDE #3 REINFORCING BARS @ 2'-0" OC EACH WAY. DO NOT SAWN-CUT CONTROL JOINTS. SEE MEP DWGS FOR SPECIFIC AREA.

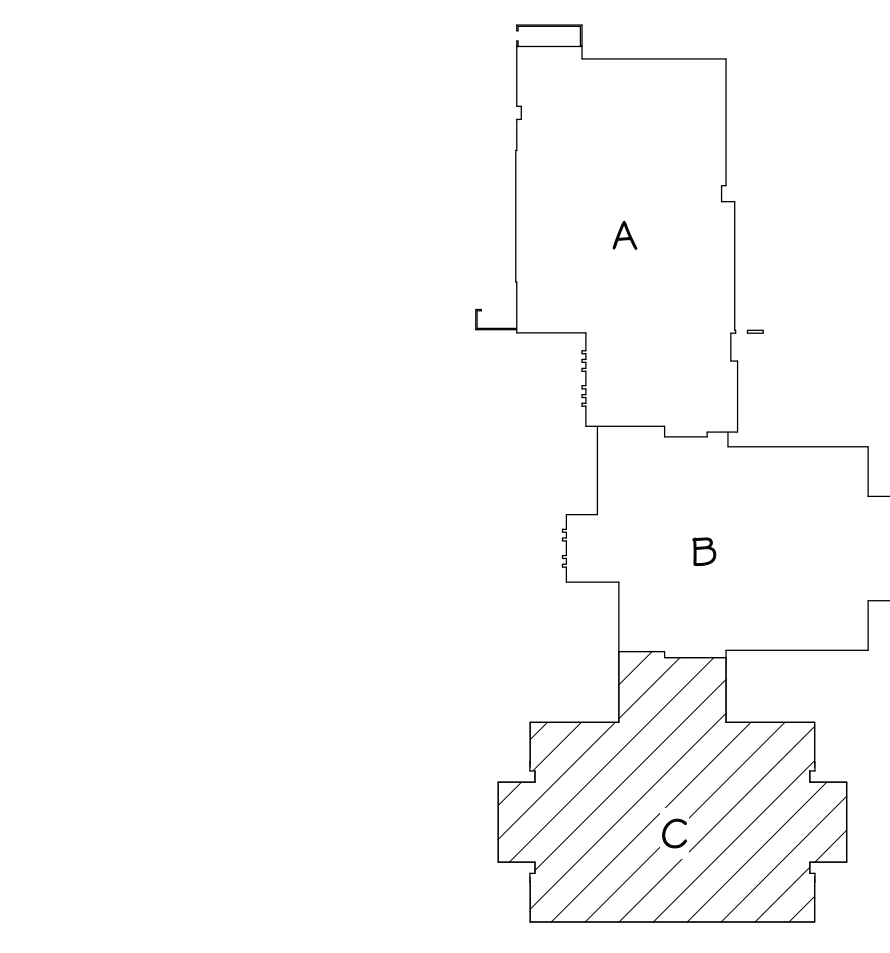
- ### FOUNDATION GENERAL NOTES
1. COLUMN BASEPLATES AND ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH DETAIL (UNO) 1 / 3.30
 2. APPLY BF-1 TYPICAL UNLESS INDICATED BF-4 ON THE FOUNDATION PLANS.
 3. CONCRETE PIER DETAILS ARE INDICATED THIS "TYP" REFER TO SHEET 3.50 FOR TOP OF PIER DETAILS.
 4. TYPICAL CONCRETE FOUNDATION WALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH DETAILS 1 / 3.40, 2 / 3.40, & 3 / 3.40
 5. SPLICE ALL REBAR ACCORDING TO SPLICE TABLE ON DETAIL 3 / 3.40
 6. COORDINATE PIPE RUNS UNDER FOOTINGS, THROUGH FOUNDATION WALLS, OR ADJACENT TO FOUNDATION WALLS PER DETAILS 5 / 3.40 & 6 / 3.40
 7. SLAB-ON-GRADE JOINTS SHALL COMPLY W/ DETAIL 4 / 3.40
 8. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF SLOPED, RAISED, OR DEPRESSIONED SLABS.
 9. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE ALL SLAB PENETRATIONS W/ MECHANICAL, ELECTRICAL, OR ARCHITECTURAL DRAWINGS.
 10. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE ALL STYROPOR LOCATIONS AND SIZES W/ THE ARCHITECTURAL AND SITE PLANS. PROVIDE A STOP AT ALL EXTERIOR EXIT DOOR LOCATIONS UNLESS INDICATED OTHERWISE BY THE ARCHITECT. ALL THE REQUIRED STYROPOR MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS.
 11. CONTINUE REINFORCING FOR CONTINUOUS WALL FOOTINGS THROUGH PAD FOOTINGS (TYPICAL).
 12. NON-LOAD BEARING (NO DECK OR JOIST BEARING) INTERIOR MASONRY WALLS SHALL HAVE THICKENED SLAB FOOTINGS PER DETAIL 10 / 3.40 (UNO).
 13. @ 2. COORDINATE EXACT LOCATION W/ ELECTRICAL EQUIPMENT SUPPLIES & ELECTRICAL ENGINEER. OFFER GROUND CONSTRUCTION SHALL BE IN ACCORDANCE WITH DETAIL 7 / 3.40

FOOTING SCHEDULE

TYPE MARK	DESCRIPTION	REINFORCING
FB	3'-0" SQ X 1'-0" THICK	(4) #4 EACH WAY BOTTOM
F4	4'-0" SQ X 1'-0" THICK	(4) #5 EACH WAY BOTTOM
FB	8'-0" SQ X 1'-0" THICK	(8) #5 EACH WAY BOTTOM
F6	6'-0" SQ X 1'-2" THICK	(7) #5 EACH WAY BOTTOM
FT	1'-0" SQ X 1'-6" THICK	(7) #5 EACH WAY BOTTOM
FX	SEE PLAN X 1'-0" THICK	#5 @ 8" OC EA. WAY TOP & BOTTOM
NF2.0	2'-0" WIDE X 1'-0" THICK	(2) #5 CONTINUOUS BOTTOM
NF2.B	2'-6" WIDE X 1'-0" THICK	(2) #5 CONTINUOUS BOTTOM
NF3.0	3'-0" WIDE X 1'-4" THICK	(3) #5 CONTINUOUS BOTTOM
NF4.0	4'-0" WIDE X 1'-4" THICK	(4) #5 CON. BOT. & 16 @ 18" OC TRANSVERSE BOT.
NF4.0-1	4'-0" WIDE X 1'-0" THICK	(4) #5 CONTINUOUS BOTTOM
NF1.0	1'-0" WIDE X 1'-4" THICK	(2) #5 CONTINUOUS BOTTOM

COLUMN SCHEDULE

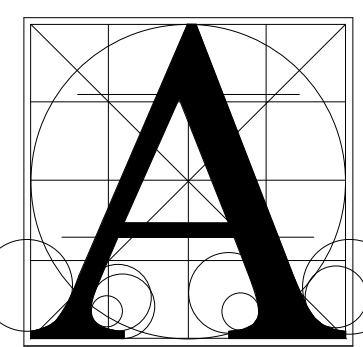
MARK	TYPE
C4	H564X4X1/4
C4L	H564X4X1/2
C5	H555X3X1/4
C6	H566X4X1/4
C6	H555X3X1/4




FOUNDATION PLAN- AREA C
 ALL DIMENSIONS ARE TO FACE OF CONCRETE OR COLUMN/FOOTING CENTERLINES (U.N.O.). COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. VERIFY DISCREPANCIES BEFORE CONSTRUCTION BEGINS.

number 1011.3000.22
 date 01/27/2023
 revision
 drawn MW checked JP

DATE DESCRIPTION
 2-02/16/23 APPENDUM # 2




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 415 South Main Avenue
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 Phone: (605) 339-1171



LICENSED PROFESSIONAL ENGINEER
 REG. NO. 7360
 JULIAN PEARSON
 SOUTH DAKOTA
 01-27-23

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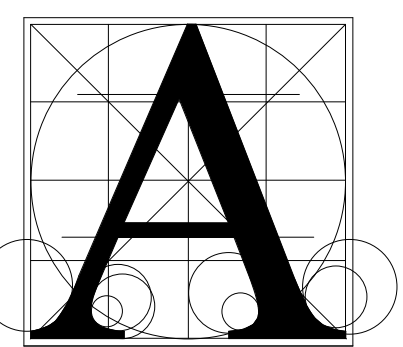


APEX
 STRUCTURAL DESIGN, LLC

HARRISBURG ELEMENTARY SCHOOL #8
 FOUNDATION PLAN- AREA C

3.20-1C

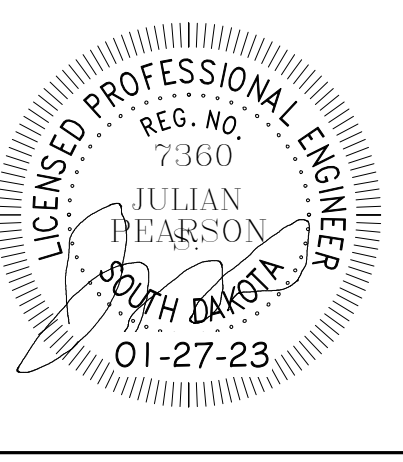
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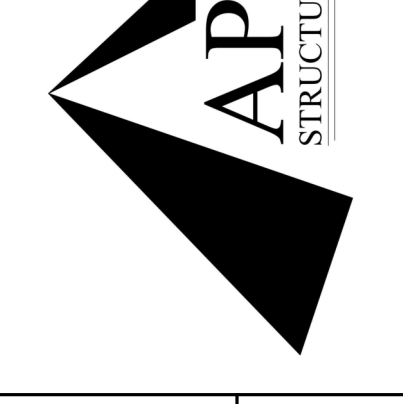
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HARRISBURG ELEMENTARY SCHOOL #8
ROOF FRAMING PLAN- AREA A

Project	number	1011.3000.22
	date	01/27/2023
	revision	
	drawn	MW
	checked	JP

DATE	DESCRIPTION
2-02/16/23	ADDENDUM # 2

3.20-2A

FRAMING GENERAL NOTES

- METAL ROOF DECK IS NOTED ON THE PLANS AND SHOULD BE IN ACCORDANCE WITH 1 / 3.54
- PROVIDE 4x4x1/4 ANGLE FRAMING AT ALL OPENINGS 12" OR LARGER IN METAL ROOF. THE GENERAL CONTRACTOR SHALL COORDINATE ROOF PENETRATIONS AND SIZES. FRAME OPENINGS IN ACCORDANCE WITH 2 / 3.54
- JOIST BRIDGING AND CONNECTIONS SHALL BE DESIGNED BY THE JOIST MANUFACTURER. ALL JOISTS BRIDGING SHALL BE DESIGNED FOR 20 PSF NET AND UPLIFT UNLESS NOTED OTHERWISE ON THE PLANS. WHERE JOIST SUPPLIERS MUST INTERRUPT BRIDGING REFER TO DETAIL 3 / 3.54
- ELEVATIONS AND DIMENSIONS SHOWN ON THE PLANS MUST BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTORS PERFORMING THE APPLICABLE WORK TO ADVISE THE ADR AND SIGNOR OF DIMENSION OR ELEVATION DISCREPANCIES BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO CONSTRUCTION. ARCHITECTURAL DRAWINGS GENERALLY GOVERN ELEVATIONS AND DIMENSIONS OF WALLS, BEAMS, AND LINTELS. ELEVATIONS SHOWN ON THE STRUCTURAL PLANS ARE INTENDED TO BENEFIT THE CONSTRUCTION PROCESS AND SIGNIFICANT EFFORT HAS BEEN MADE TO COORDINATE ELEVATIONS AND DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS BUT PROVIDING THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR FROM CHECKING DIMENSIONS OR ELEVATIONS AGAINST ALL PLANS, SCHEDULES, AND DETAILS.
- DETAILS LABELED AS "TYP" SHOULD BE APPLIED AS TYPICAL CONSTRUCTION DETAIL UNLESS NOTED OTHERWISE.
- SEE ARCHITECTURAL PLAN FOR WALL HEIGHTS AND LOCATIONS. TYPICAL NON-LOAD BEARING PARTITION WALLS SHALL BE BRACED ACCORDING TO DETAILS 1 / 3.55 2 / 3.55 11 / 3.52 12 / 3.52 10 / 3.50
- STEEL JOISTS LABELED AS "SP" ARE JOIST WITH SPECIAL LOADS. CRITERIA TO BE DESIGNED BY THE STEEL JOIST SUPPLIER. SEE PLANS AND LOADING DIAGRAMS.
- STEEL JOISTS WITH POINT LOADS SHALL BE REINFORCED IN ACCORDANCE WITH DETAIL 4 / 3.54
- PROVIDE 3x3x1/4 CONTINUOUS ANGLE AROUND ALL DECK PERIMETERS UNLESS INDICATED OTHERWISE ON DETAILS.
- "**" NEXT TO BEAM INDICATES BEAM HAS A 1" CONTINUOUS BOTTOM PLATE. WIDTH OF BOTTOM PLATE IS NOMINAL WIDTH OF MASONRY MINUS 1". PROVIDE ADDITIONAL PLATE WIDTH AS NEEDED TO SUPPORT VENEER WHERE NEEDED. SEE ARCH DWGS.

FRAMING PLAN NOTES

- STAIR SYSTEM COMPONENTS NOT SPECIFICALLY NOTED (STRINGER/PAN/TREADS/RAILINGS) SHALL BE ENGINEERED BY THE SUPPLIER. SEE ARCH DWGS FOR MORE INFO.
- CONCRETE HEADERS INTEGRATED INTO PRECAST MALL DESIGNED AND PROVIDED BY PRECAST SUPPLIER.
- DUCT OPENINGS: GC COORDINATE SIZE AND LOCATION IN PRECAST MALL CONTRACTORS. PRECAST SUPPLIER PROVIDE SUPPORT FRAMING AS NEEDED SIMILAR TO DETAIL 3 / 3.50
- SHADED AREA: STORM SHELTER DESIGNED PER ICC-500 2014 (ULTIMATE WIND SPEED= 200 MPH)
- SUSPENDED PRECAST MISSILE PROTECTION BAFFLE MALL. SEE DETAILS

MASONRY WALL GENERAL NOTES

- PROVIDE THE FOLLOWING MINIMUM CMU WALL REINFORCEMENT UNLESS NOTED OTHERWISE ON THE PLANS AND DETAILS. LOCATE VERTICAL BARS PER DETAIL 2 / 3.52
- 6" OR 8" INTERIOR NON-JOIST OR DECK BEARING WALLS: (1) #5 VERTICAL @ 8'-0" OC
- 8" INTERIOR JOIST OR DECK BEARING WALLS: (1) #5 VERTICAL @ 4'-0" OC
- 8" EXTERIOR WALLS: (1) #5 VERTICAL @ 4'-0" OC
- 12" WALLS: (1) #6 VERTICAL @ 2'-0" OC
- 6" & 8" CMU WALL BOND BEAMS SHALL HAVE (2) #4 CONTINUOUS
- 12" CMU WALL BOND BEAMS SHALL HAVE (2) #6 CONTINUOUS
- PROVIDE (2) CORNER BARS TO MATCH BOND BEAM REINFORCING @ ALL CORNERS
- PROVIDE CONTINUOUS BOND BEAMS AT TOP OF WALL, JOIST AND DECK BEARING, AND 0'-0" OC
- PROVIDE BOND BEAMS BELOW WINDOWS, EXTEND 24" EACH SIDE BEYOND OPENINGS
- REFER TO ARCHITECTURAL DRAWINGS FOR MASONRY CONTROL JOINT LOCATIONS. TYPICAL CONTROL JOINT CONSTRUCTION SHALL BE IN ACCORDANCE WITH DETAIL 1 / 3.52
- CONSTRUCT INTERIOR CMU WALL INTERSECTIONS PER DETAIL 3 / 3.52
- CONSTRUCT MASONRY FLOOR FOR STEEL BEAM BEARINGS PER DETAIL 5 / 3.52
- PROVIDE TYPICAL STEEL BEAM Lintel CONSTRUCTION PER DETAIL 4 / 3.52

METAL STUD WALL OPENING CONSTRUCTION- REFERENCE 15 / 3.55 14 / 3.55

MARK	HEADER	JAMB STUDS	SILL	DETAIL
H1	600S350-60 (WEAK AXIS) + 600T125-84	600S350-60	600T125-84	9 / 3.55
H2	(2) 600S300-60 (BOXED) + 600T125-84 TOP & BOT.	600S350-60	600T125-84	10 / 3.55
H3	(2) 600S300-4T (BOXED) + 600T125-84 TOP & BOT.	600S350-60	600T125-84	11 / 3.55

MASONRY CMU Lintel- SEE DETAIL 0 / 3.52

MARK	WIDTH	DEPTH	REINFORCING
ML-1	8"	16"	(2) #4 CONT.
ML-2	8"	24"	(2) #5 CONT.

EXTERIOR MASONRY VENEER LINTELS- SEE DETAIL 11 / 3.53

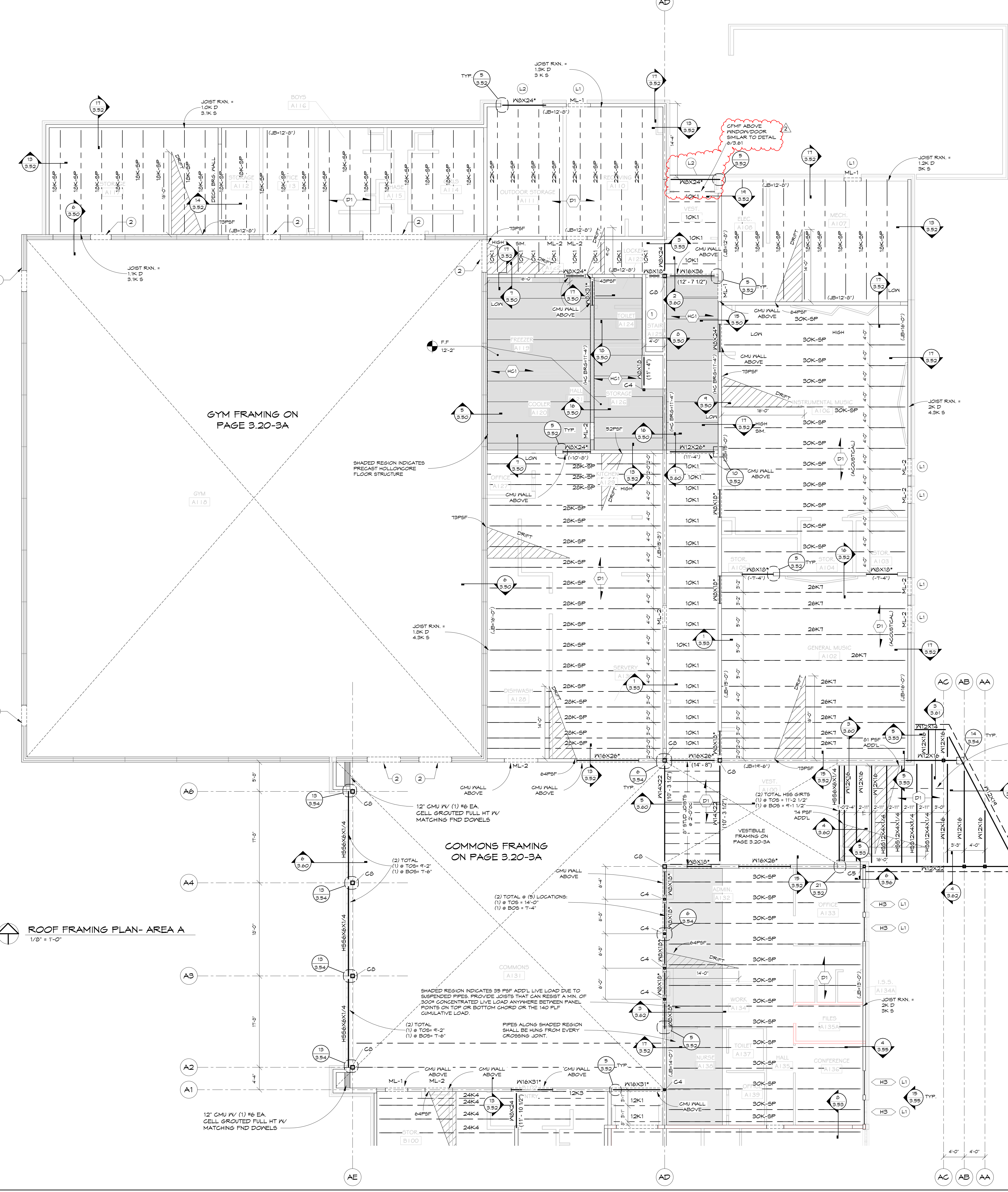
MARK	DESCRIPTION	BRG LENGTH
L1	L4x4x1/4 UNDER BRICK + L3x3x1/4	6"
L2	L6x6x3/8 (LLV) UNDER BRICK + L3x3x1/4 (LLV)	6"

COLUMN SCHEDULE

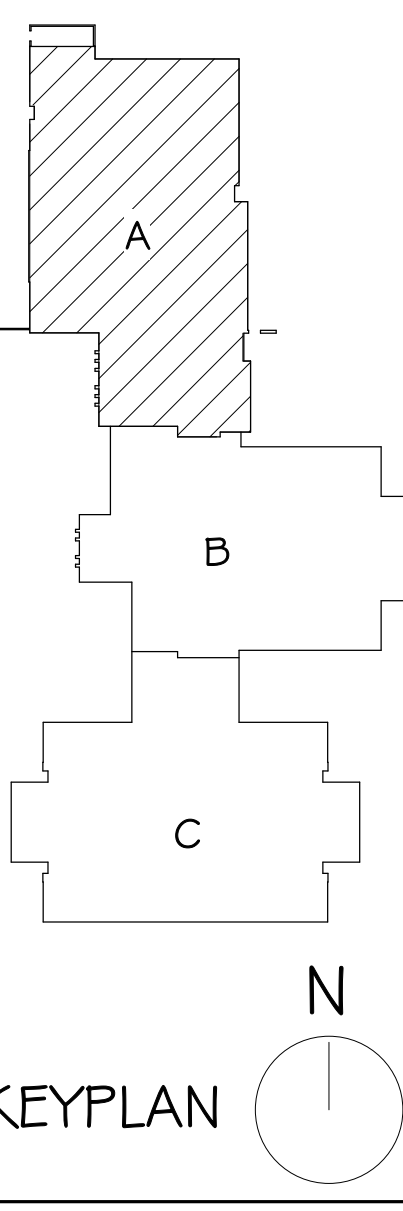
MARK	TYPE
C4	H56x6x1/4
C4C	H56x6x1/2
C5	H56x6x1/4
C6	H56x6x1/4
C8	H56x6x1/4

DECK/SLAB SCHEDULE

- D1 METAL ROOF DECK: 1 1/2" x 23ga WIDE RIBBED (TYPE B). FASTEN TO SUPPORTS WITH 5/8" RIBBLE PIELDS AT 36" FASTENER LAYOUT AND FASTEN SIDE LAPS WITH (3) #10 TEK SCREWS PER SPAN.
- D2 METAL ROOF DECK: 1 1/2" x 23ga WIDE RIBBED (TYPE B). FASTEN TO SUPPORTS WITH 5/8" RIBBLE PIELDS AT 36" FASTENER LAYOUT AND FASTEN SIDE LAPS WITH (3) #10 TEK SCREWS PER SPAN.
- HC1 8" THICK x 4'-0" WIDE PRECAST CONCRETE HOLLOW-CORE PLANKS WITH 2" NON-COMPOSITE TOPPING. PROVIDE POLY FIBER MESH IN TOPPING. DESIGN LOADS: LIVE LOAD = 100PSF DEAD LOAD = SELF WEIGHT + TOPPING + 20PSF
- HC2 8" THICK x 4'-0" WIDE PRECAST CONCRETE HOLLOW-CORE PLANKS WITH 4" NON-COMPOSITE TOPPING. PROVIDE #4 REINFORCING BARS @ 18" OC CENTERED IN TOPPING THICKNESS. DESIGN LOADS: LIVE LOAD = 100PSF DEAD LOAD = SELF WEIGHT + TOPPING + 20PSF



ROOF FRAMING PLAN- AREA A
1/8" = 1'-0"



GYM FRAMING ON PAGE 3.20-3A

COMMONS FRAMING ON PAGE 3.20-3A

SHADED REGION INDICATES PRECAST HOLLOW-CORE FLOOR STRUCTURE

12" CMU W/ (1) #6 EA. CELL GROUTED FULL HT W/ MATCHING FND DONNELS

SHADED REGION INDICATES 35 PSF ADD'L LIVE LOAD DUE TO SUSPENDED PIPES. PROVIDE JOISTS THAT CAN RESIST A MIN. OF 300# CONCENTRATED LIVE LOAD ANYWHERE BETWEEN PANEL POINTS ON TOP OR BOTTOM CHORD OR THE 140 PLF CUMULATIVE LOAD.

PIPES ALONG SHADED REGION SHALL BE HUNG FROM EVERY CROSSING JOINT.

12" CMU W/ (1) #6 EA. CELL GROUTED FULL HT W/ MATCHING FND DONNELS

(2) TOTAL (1) # TOS= 4'-2" (1) # BOS= 7'-6"

(2) TOTAL @ (5) LOCATIONS: (1) # TOS= 14'-0" (1) # BOS= 7'-4"

(2) TOTAL (1) # TOS= 9'-2" (1) # BOS= 7'-6"

12" CMU W/ (1) #6 EA. CELL GROUTED FULL HT W/ MATCHING FND DONNELS

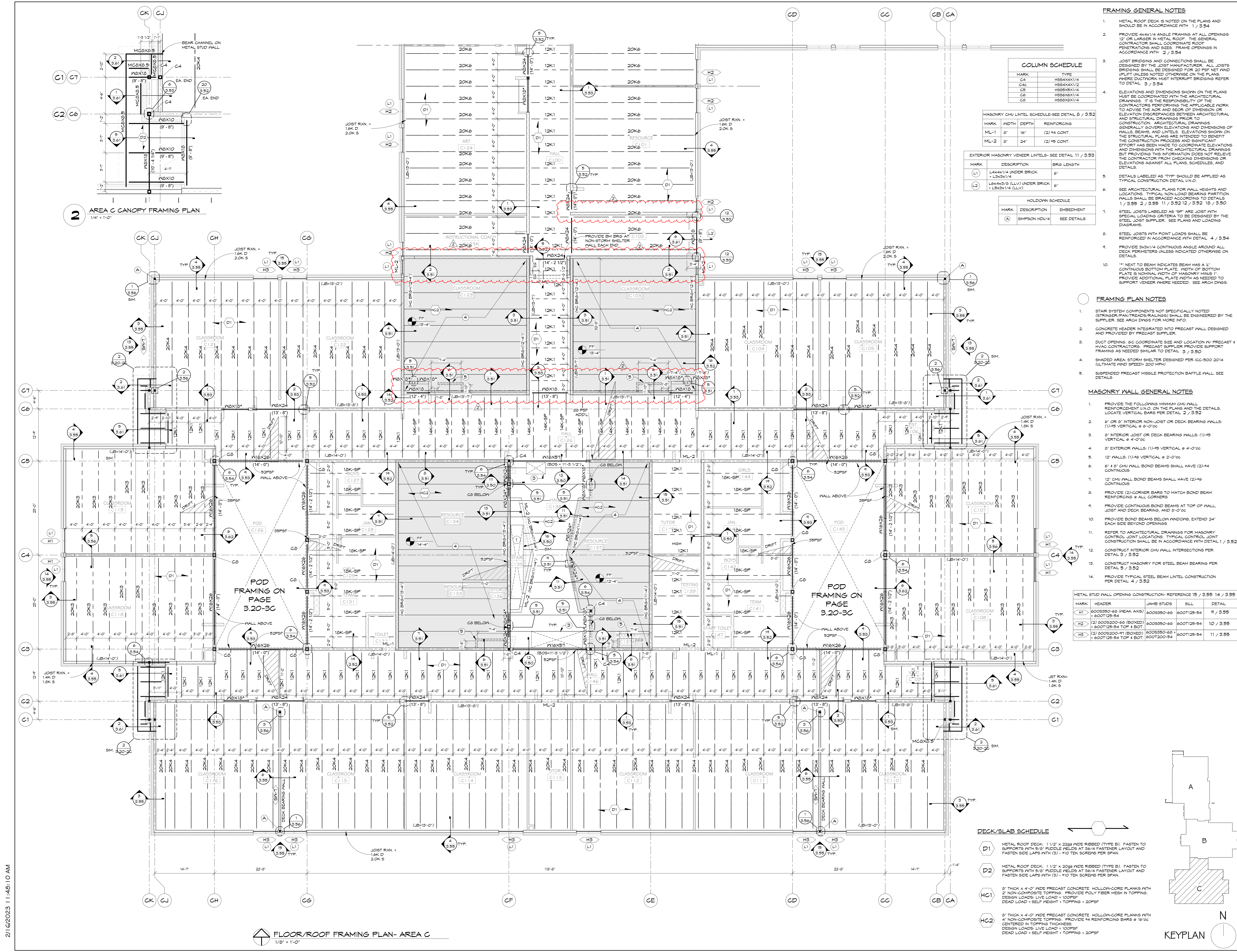
12" CMU W/ (1) #6 EA. CELL GROUTED FULL HT W/ MATCHING FND DONNELS

(2) TOTAL (1) # TOS= 4'-2" (1) # BOS= 7'-6"

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(2) TOTAL (1) # TOS= 9'-2" (1) # BOS= 7'-6"

12" CMU W/ (1) #6 EA. CELL GROUTED FULL HT W/ MATCHING FND DONNELS



2 AREA C CANOPY FRAMING PLAN
1/4" = 1'-0"

MARK	TYPE
C4	H54X41X1/4
C4C	H54X41X1/2
C3	H55X31X1/4
C2	H56X31X1/4
C1	H58X31X1/4

MARK	WIDTH	DEPTH	REINFORCING
ML-1	8"	16"	(2) #4 CONT.
ML-2	8"	24"	(2) #5 CONT.

MARK	DESCRIPTION	BRG LENGTH
L1	14K4X14 UNDER BRICK + L5X1X1/4	6"
L2	16K4X16 (LLV) UNDER BRICK + L5X1X1/4 (LLV)	6"

MARK	DESCRIPTION	EMBEDMENT
A	SIMPSON HDU/4	SEE DETAILS

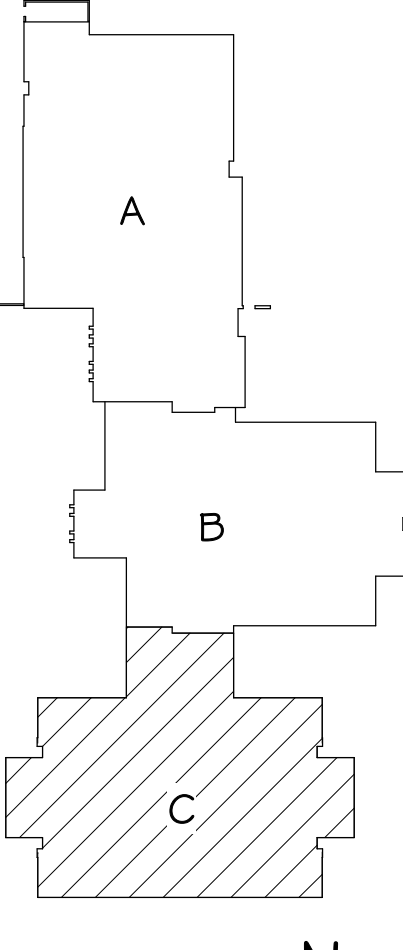
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 - STEEL JOISTS WITH POINT LOADS SHALL BE REINFORCED IN ACCORDANCE WITH DETAIL 4 / 3.54
 - PROVIDE 3/8X1/4 CONTINUOUS ANGLE AROUND ALL DECK PERIMETERS UNLESS INDICATED OTHERWISE ON DETAILS.
 - ** NEXT TO BEAM INDICATES BEAM HAS A 1" CONTINUOUS BOTTOM PLATE. WIDTH OF BOTTOM PLATE IS NOMINAL WIDTH OF MASONRY MUNIT. PROVIDE ADDITIONAL PLATE WIDTH AS NEEDED TO SUPPORT VENEER WHERE NEEDED. SEE ARCH DWGS.

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 - 6" OR 8" INTERIOR NON-JOIST OR DECK BEARING WALLS: (1)-#5 VERTICAL @ 6'-0" OC
 - 8" INTERIOR JOIST OR DECK BEARING WALLS: (1)-#5 VERTICAL @ 4'-0" OC
 - 8" EXTERIOR WALLS: (1)-#5 VERTICAL @ 4'-0" OC
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 - 6" & 8" CMU WALL BOND BEAMS SHALL HAVE (2)-#4 CONTINUOUS
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 - PROVIDE (2)-CORNER BARS TO MATCH BOND BEAM TOP REINFORCING @ ALL CORNERS
 - PROVIDE CONTINUOUS BOND BEAMS AT TOP OF WALL, JOIST AND DECK BEARING, AND 8'-0" OC
 - PROVIDE BOND BEAMS BELOW WINDOWS, EXTEND 24" EACH SIDE BEYOND OPENINGS
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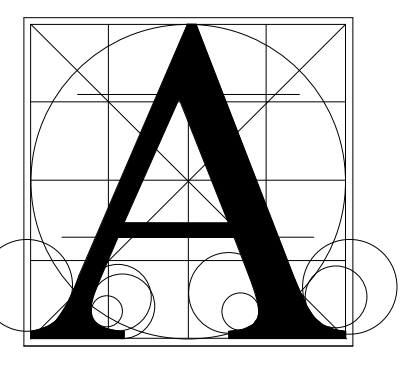
MARK	HEADER	JAMB STUDS	BILL	DETAIL
H1	800S590-68 (WEAK AXIS) + 800T125-54	800S350-68	800T125-54	9 / 3.55
H2	800S590-68 (BOXED) + 800T125-54 TOP & BOT.	800S350-68	800T125-54	10 / 3.55
H3	(2) 800S590-47 (BOXED) + 800T125-54 TOP & BOT.	800S350-68	800T125-54	11 / 3.55

- DECK/SLAB SCHEDULE**
- D1 METAL ROOF DECK: 1 1/2" x 22ga WIDE RIBBED (TYPE B). FASTEN TO SUPPORTS WITH 8x8" PUZZLE PELTS AT 24" FASTENER LAYOUT AND FASTEN SIDE LAPS WITH (3) - #10 TEK SCREWS PER SPAN.
 - D2 METAL ROOF DECK: 1 1/2" x 20ga WIDE RIBBED (TYPE B). FASTEN TO SUPPORTS WITH 8x8" PUZZLE PELTS AT 24" FASTENER LAYOUT AND FASTEN SIDE LAPS WITH (3) - #10 TEK SCREWS PER SPAN.
 - H1 8" THICK x 4'-0" WIDE PRECAST CONCRETE HOLLOW-CORE PLANKS WITH 4" NON-COMPOSITE TOPPING. PROVIDE POLY FIBER MESH IN TOPPING. DESIGN LOADS: LIVE LOAD + 100PSF. DEAD LOAD + SELF HEIGHT + TOPPING + 20PSF
 - H2 8" THICK x 4'-0" WIDE PRECAST CONCRETE HOLLOW-CORE PLANKS WITH 4" NON-COMPOSITE TOPPING. PROVIDE #4 REINFORCING BARS @ 18" OC CENTERED IN TOPPING THICKNESS. DESIGN LOADS: LIVE LOAD + 100PSF. DEAD LOAD + SELF HEIGHT + TOPPING + 20PSF



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FLOOR/ROOF FRAMING PLAN- AREA C
1/8" = 1'-0"



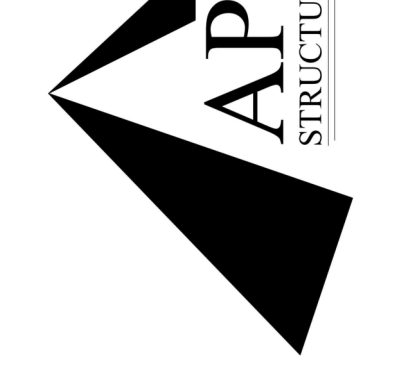
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HARRISBURG ELEMENTARY SCHOOL #8
sheet contents

ROOF FRAMING PLAN- AREA C

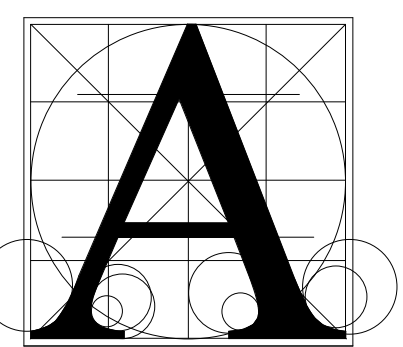
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DATE	DESCRIPTION
2-02/16/23	APPENDUM # 2

3.20-2C

COLUMN SCHEDULE	
MARK	TYPE
C4	HSS4X4X1/4
C4C	HSS4X4X1/2
C8	HSS8X8X1/4
C8	HSS8X8X1/4
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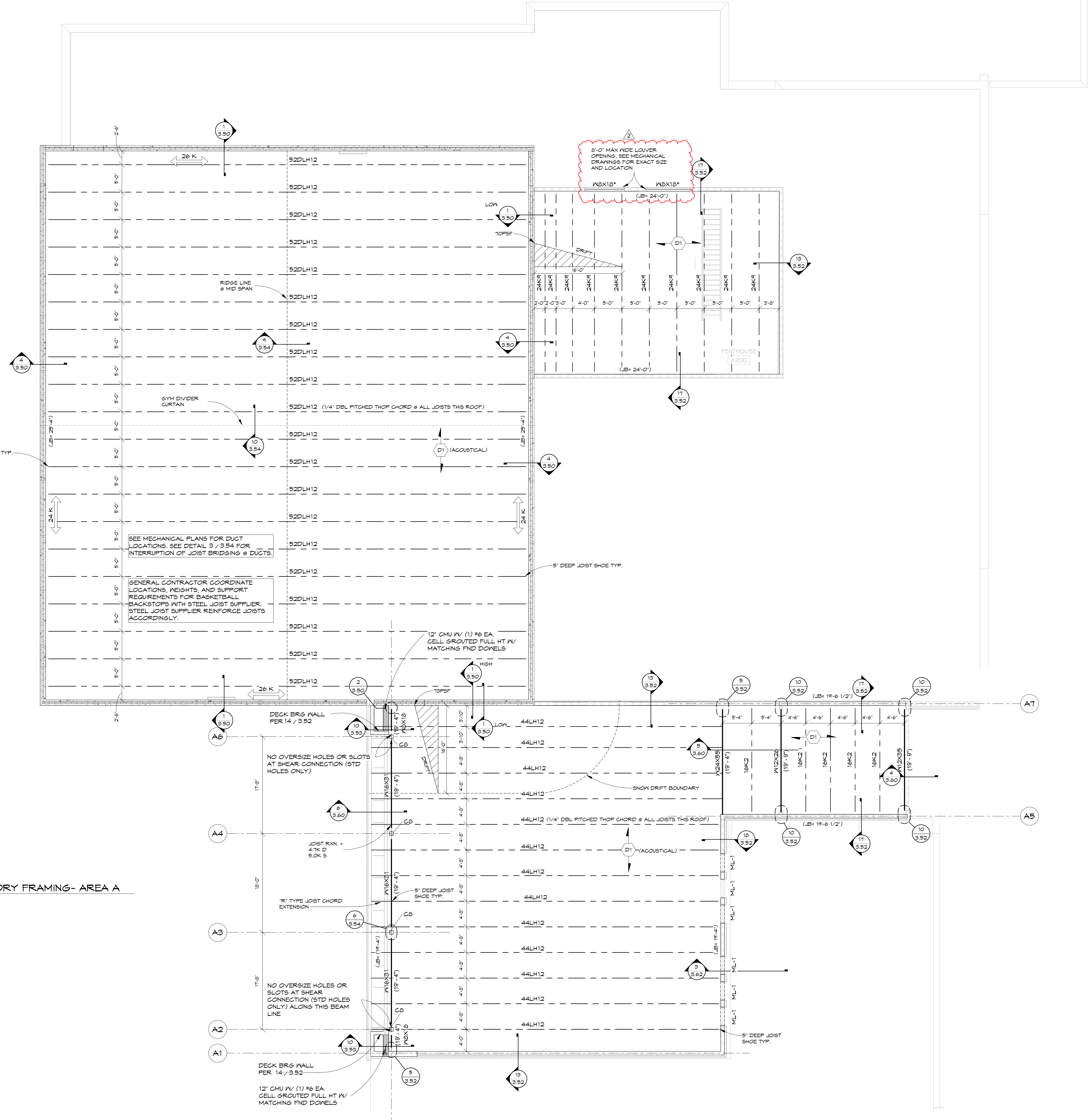
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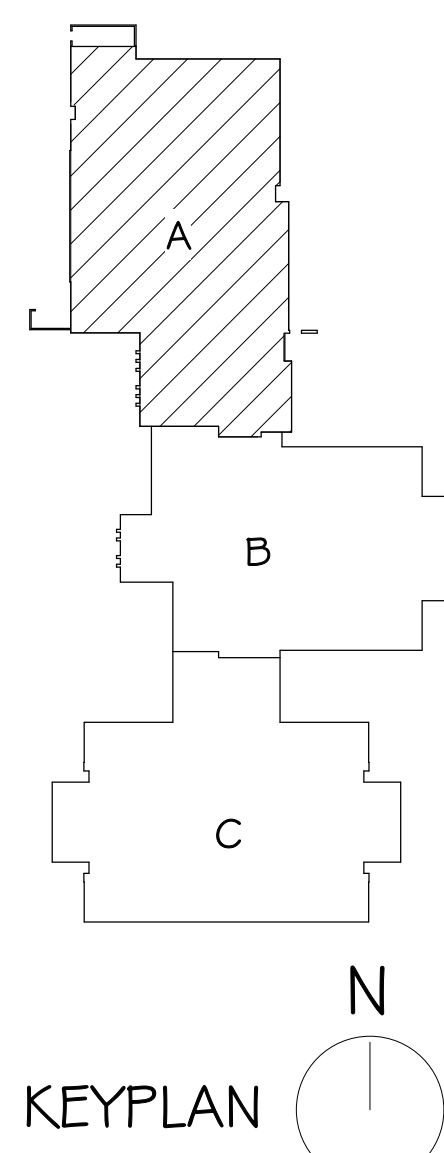
DECK/SLAB SCHEDULE

D1 METAL ROOF DECK: 1 1/2" x 23ga WIDE RIBBED (TYPE B). FASTEN TO SUPPORTS WITH 3/8" FURDLE PEGS AT 24" FASTENER LAYOUT AND FASTEN SIDE LAPS WITH (3) - #10 TEK SCREWS PER SPAN.

INDICATES ULTIMATE (LRFD) AND SHEAR DELIVERED FROM ROOF DRAINAGE TO PRECAST WALL PANEL. LOAD IS IN KIPS.

MASONRY CMU LINTEL SCHEDULE-SEE DETAIL 8 / 3.52		
MARK	WIDTH	DEPTH
ML-1	8"	16"
ML-2	8"	24"

CLERESTORY FRAMING- AREA A
 1/8" = 1'-0"

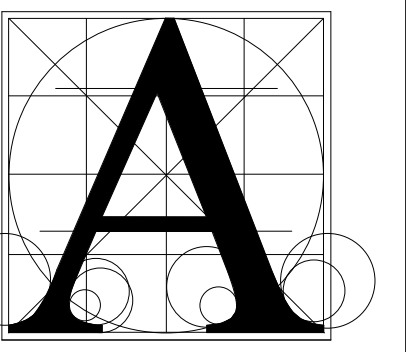


HARRISBURG ELEMENTARY SCHOOL #8
 CLERESTORY FRAMING PLAN- AREA A

number	1011.3000.22
date	01/27/2023
revision	
drawn	MW checked JP

DATE	DESCRIPTION
2-02/16/23	APPENDUM # 2

3.20-3A



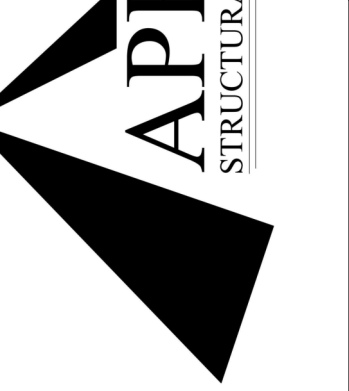
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515 South Cliff Ave., Ste 200
Sioux Falls, SD 57104
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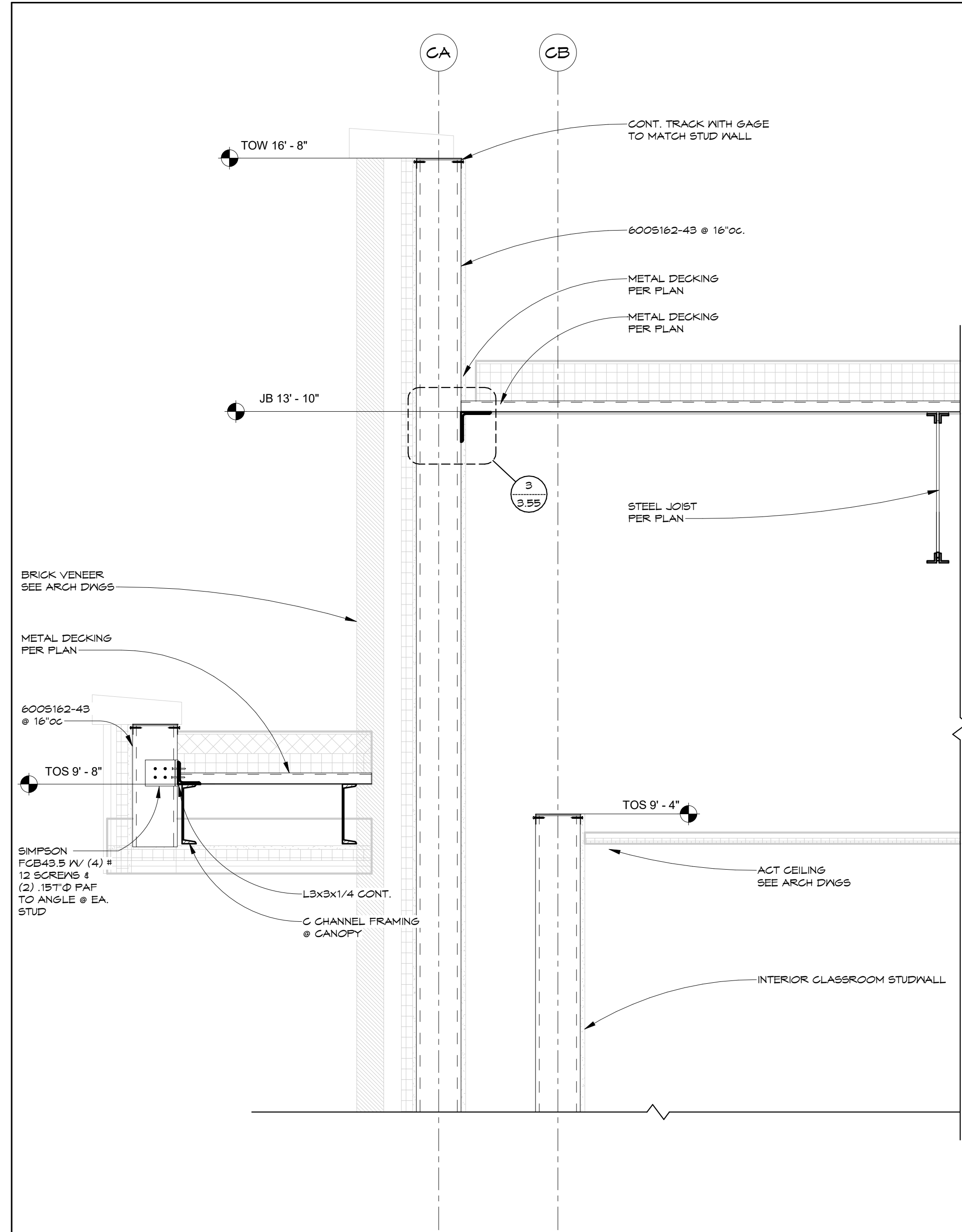
HARRISBURG ELEMENTARY SCHOOL #8

DETAILS- FRAMING

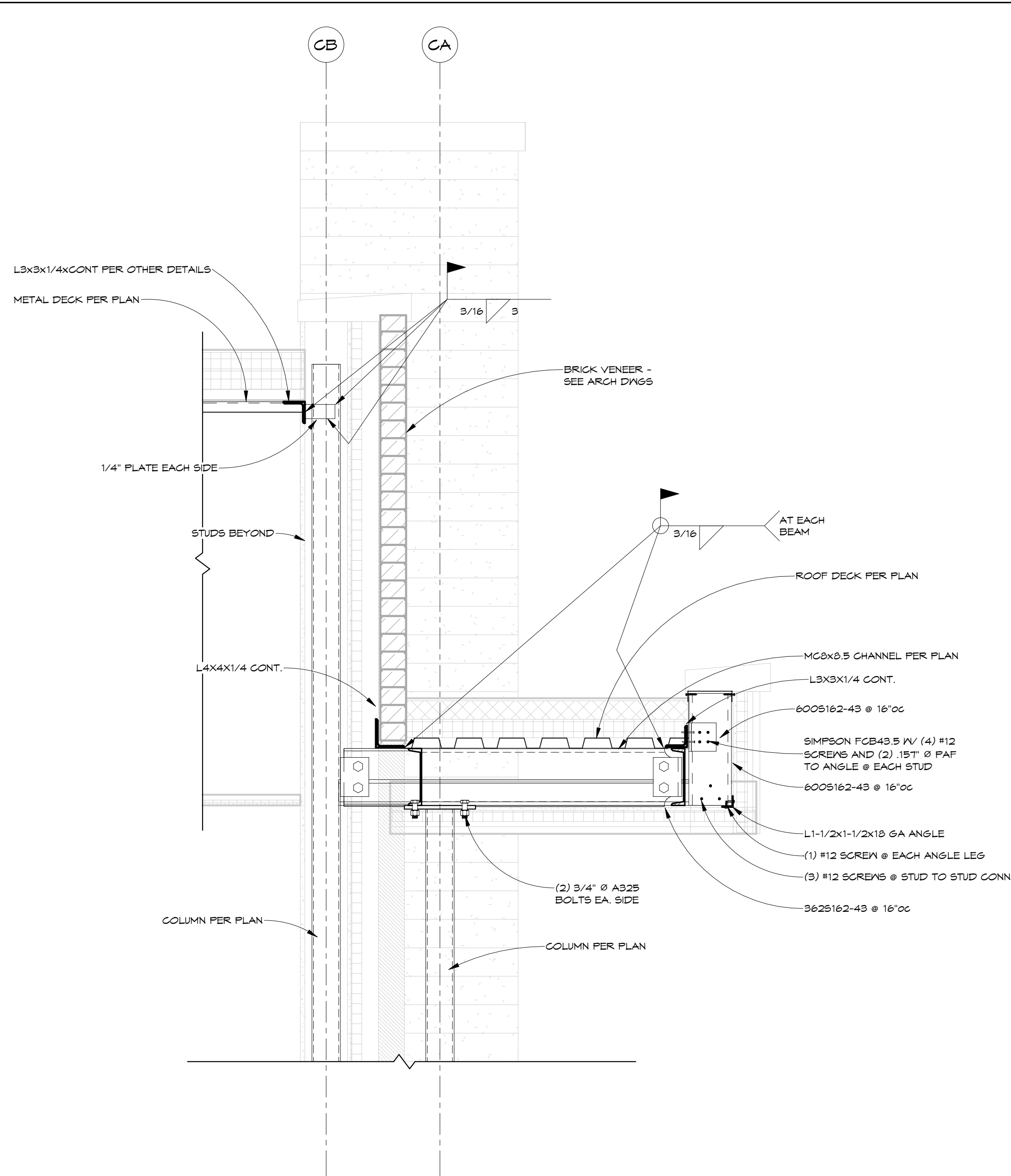
Project	number	1011.3000.22
	date	01/27/2023
	revision	
drawn	MW	checked JP

DATE	DESCRIPTION
2-02/16/23	APPENDUM # 2

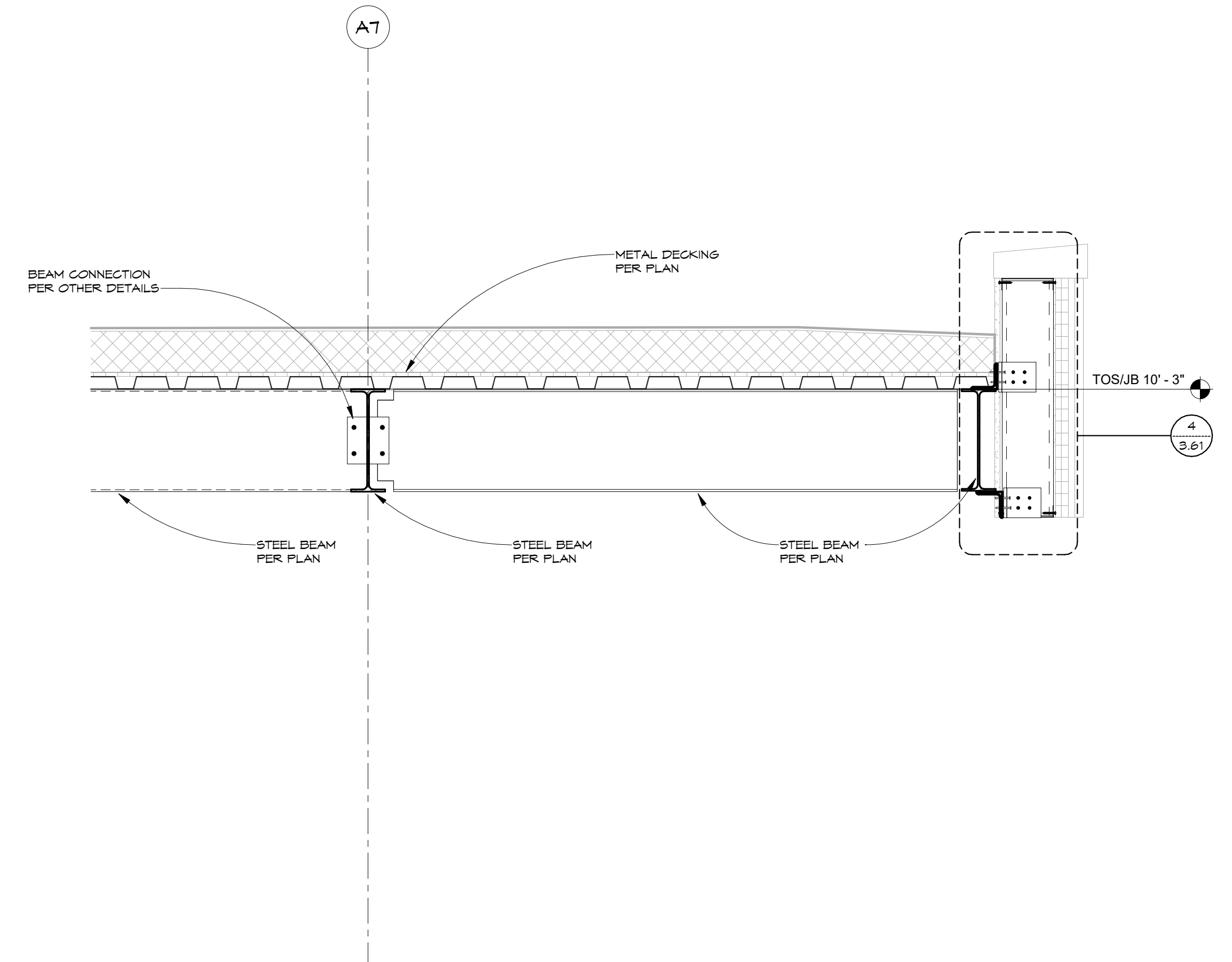
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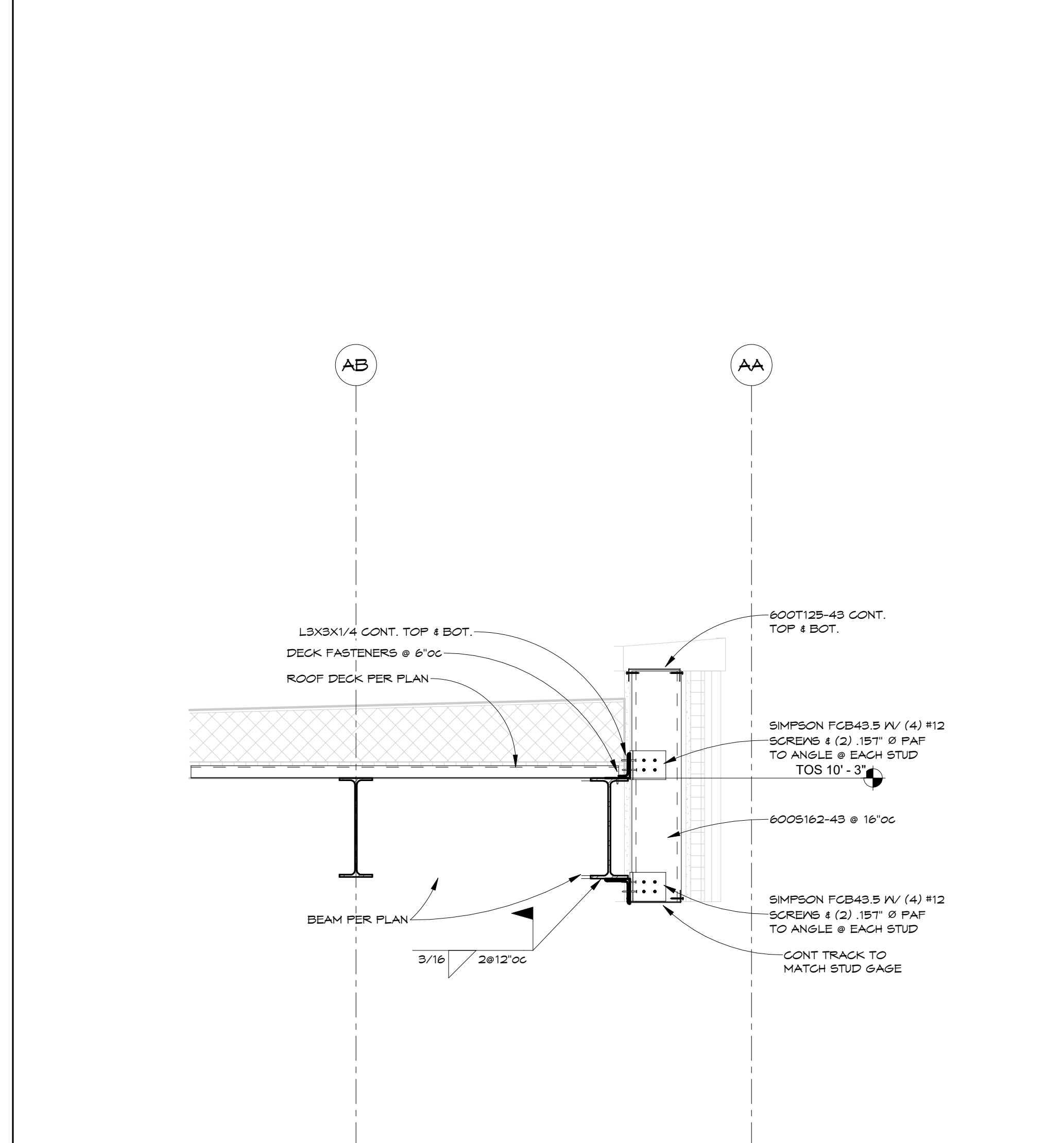
1 AREA C NORTH EAST VESTIBULE
1" = 1'-0"



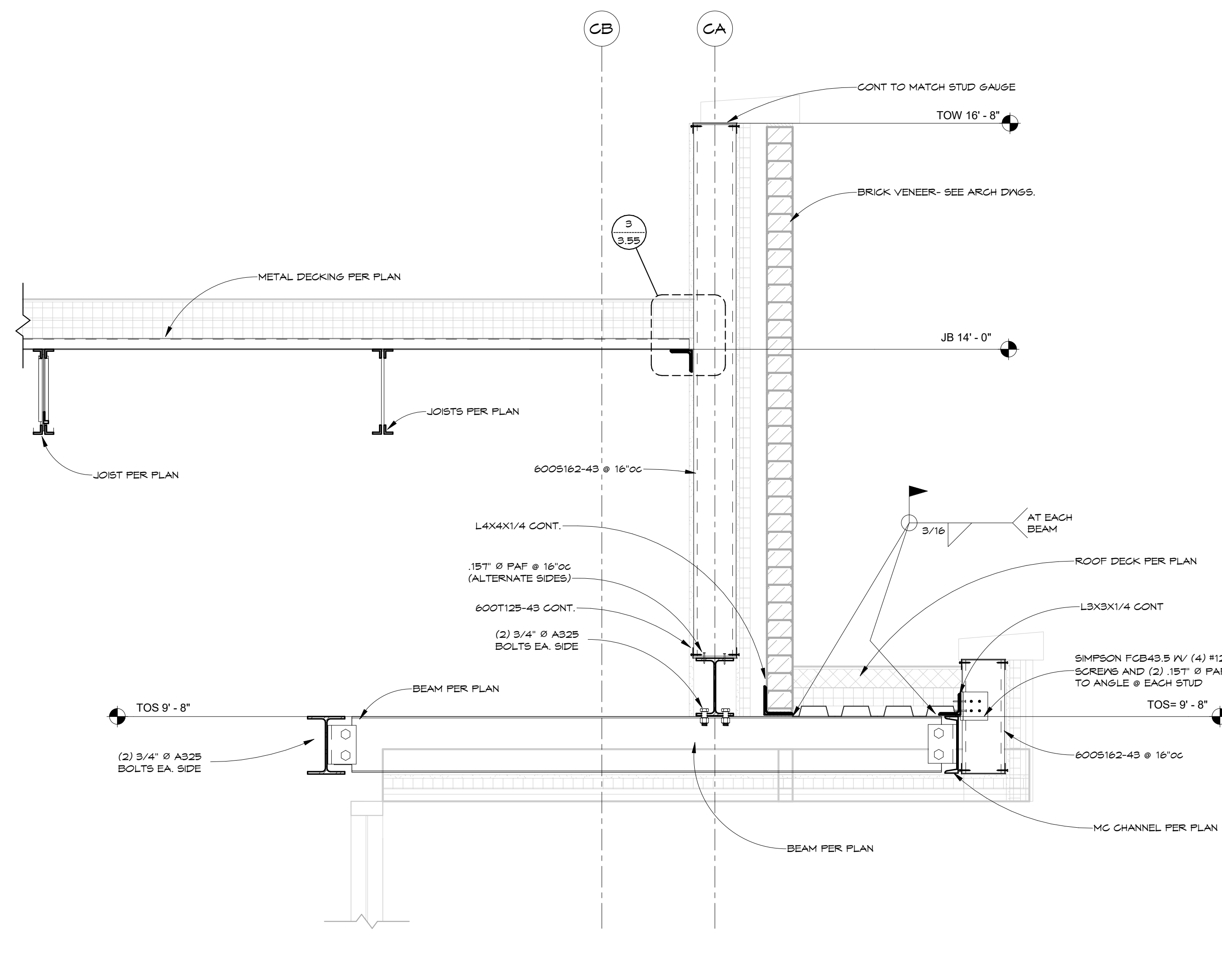
2 AREA C SOUTH EAST VESTIBULE
1" = 1'-0"



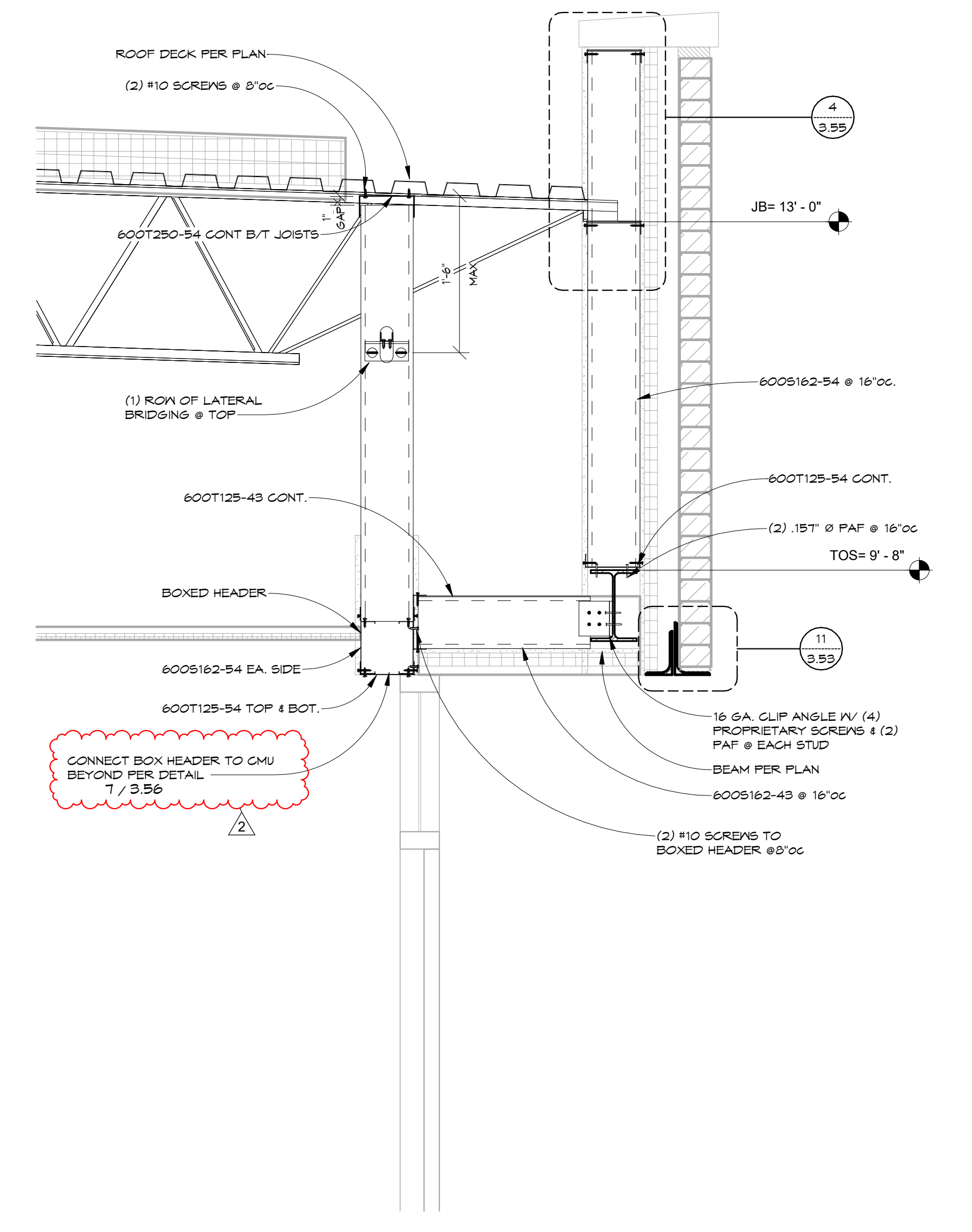
3 AREA A FRONT CANOPY SIDE SECTION
1" = 1'-0"



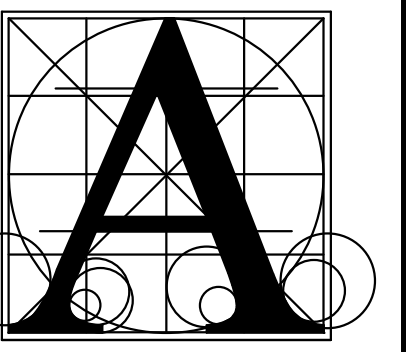
4 AREA A FRONT CANOPY FRAMING
1" = 1'-0"



5 AREA C CANOPY FRAMING
1" = 1'-0"



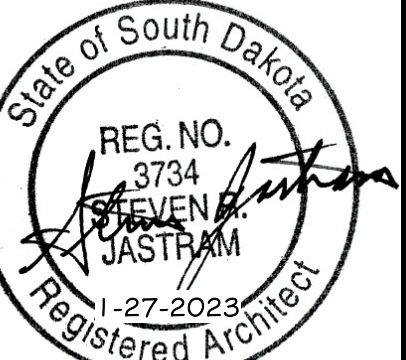
6 AREA C VESTIBULE FRAMING @ STORM SHELTER
1" = 1'-0"



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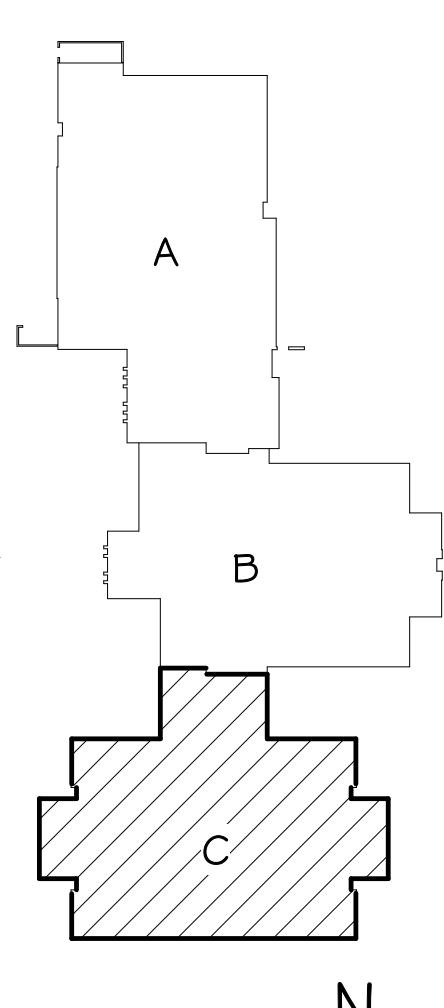
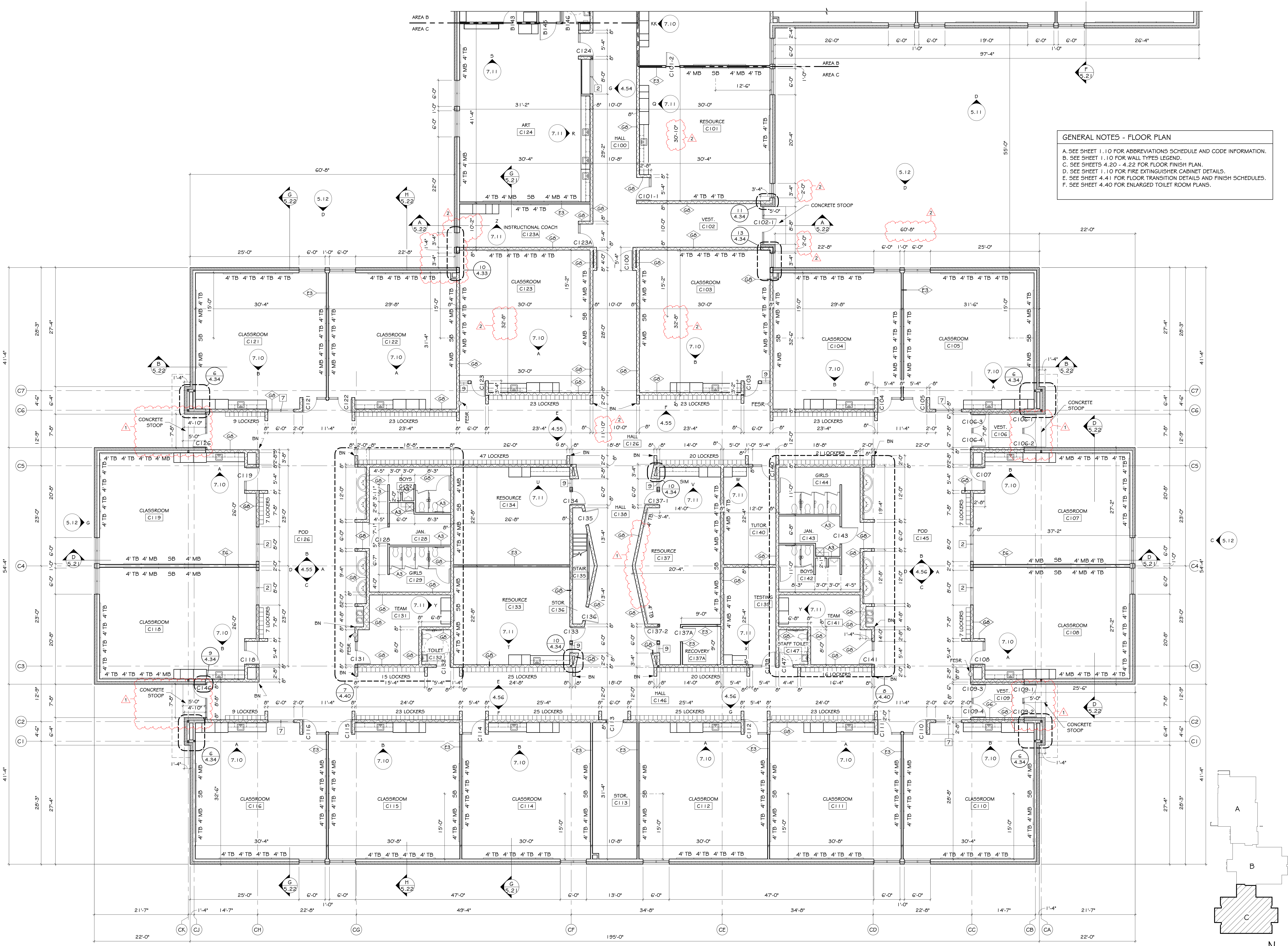
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GENERAL NOTES - FLOOR PLAN

A. SEE SHEET 1.10 FOR ABBREVIATIONS SCHEDULE AND CODE INFORMATION.
 B. SEE SHEET 1.10 FOR WALL TYPES LEGEND.
 C. SEE SHEETS 4.20 - 4.22 FOR FLOOR FINISH PLAN.
 D. SEE SHEET 1.10 FOR FIRE EXTINGUISHER CABINET DETAILS.
 E. SEE SHEET 4.41 FOR FLOOR TRANSITION DETAILS AND FINISH SCHEDULES.
 F. SEE SHEET 4.40 FOR ENLARGED TOILET ROOM PLANS.



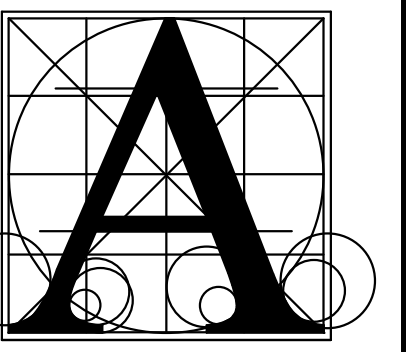
FLOOR PLAN - AREA C
 SCALE: 1/8" = 1'-0"

HARRISBURG ELEMENTARY SCHOOL #8
 FLOOR PLAN - AREA C

Project	number	1011.3000.22
	date	JANUARY 27, 2023
	revision	
	drawn	ZJG checked SRJ
NO.	DATE	DESCRIPTION
1	2/9/2023	ADDENDUM #1
2	2/16/2023	ADDENDUM #2

4.13

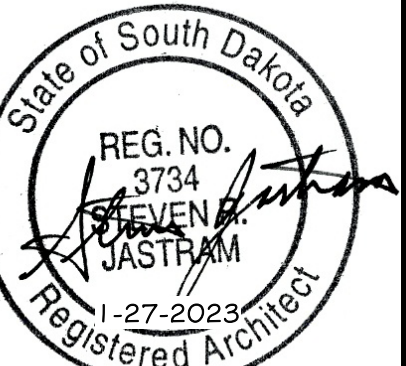
2/16/2023 1:21:26 PM



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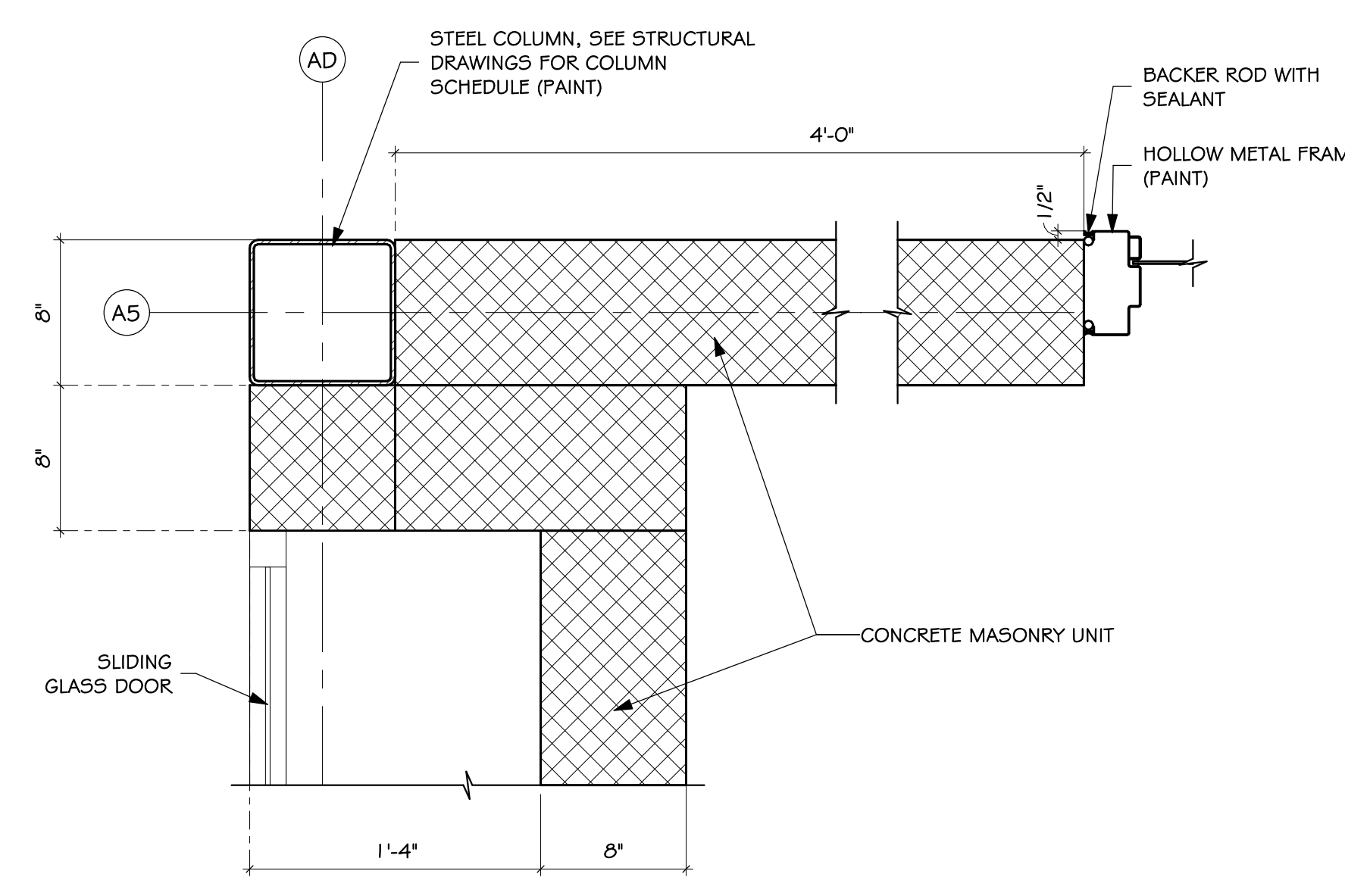
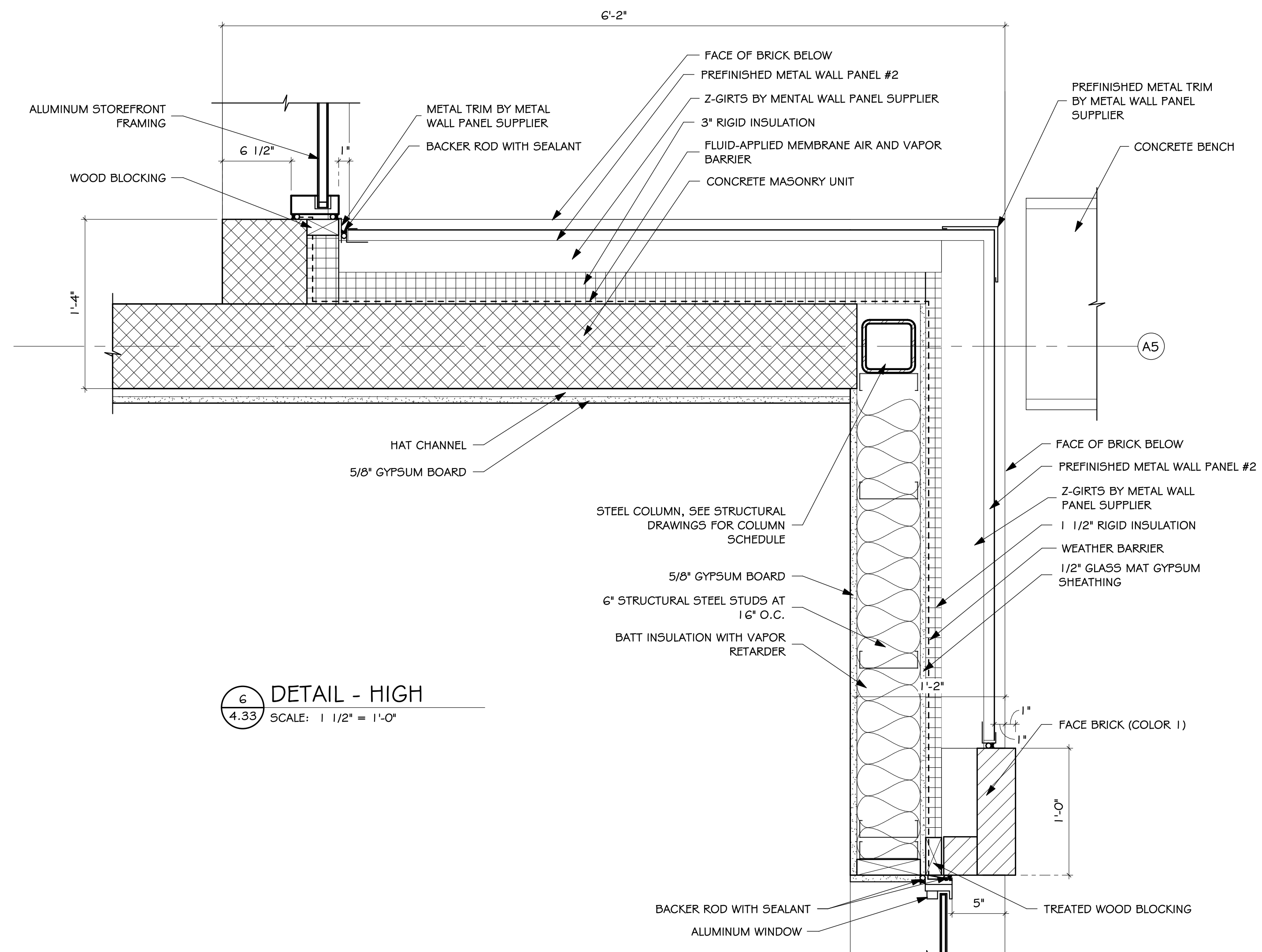
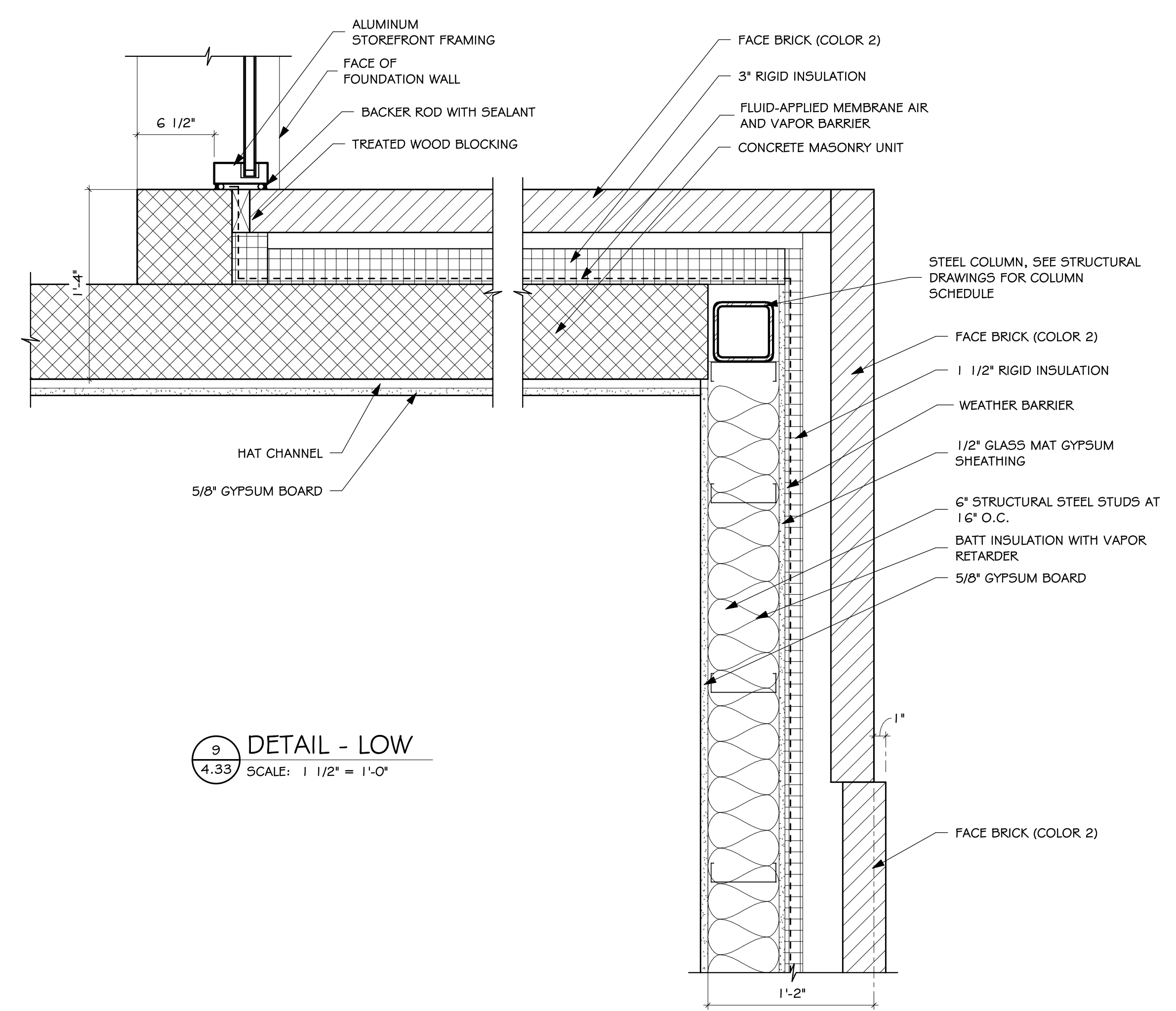
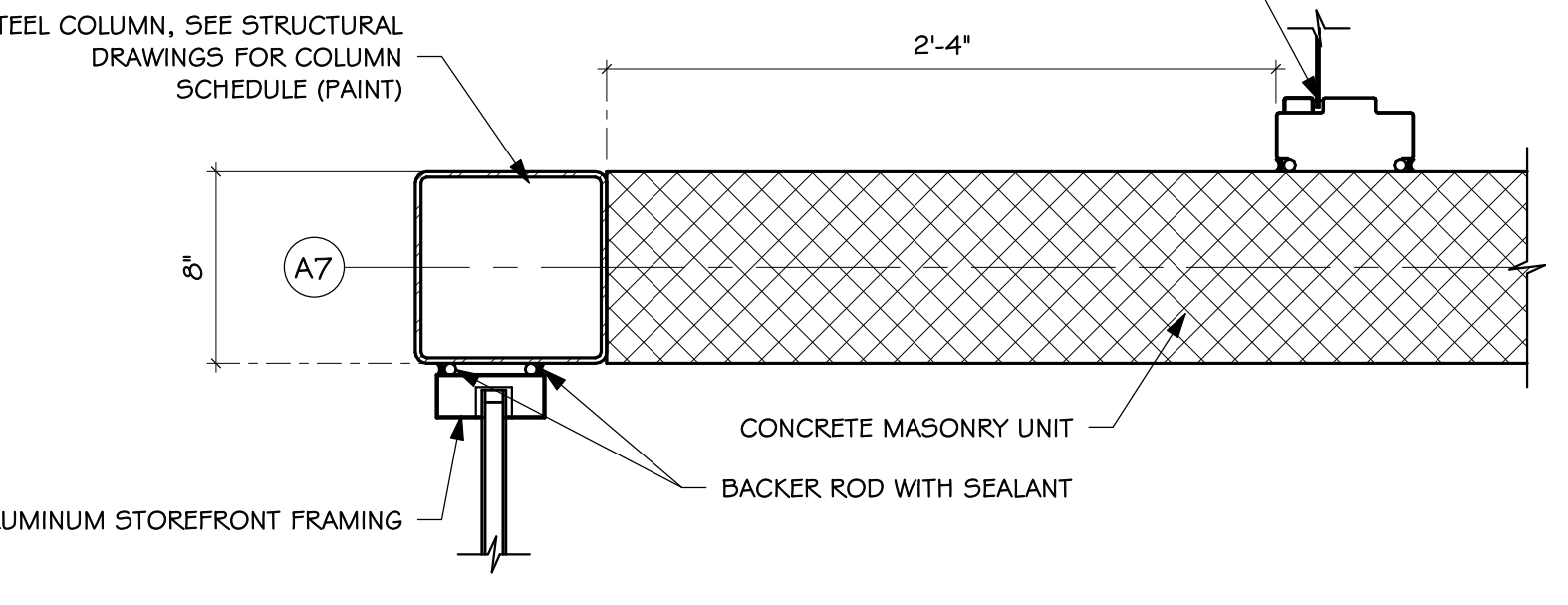
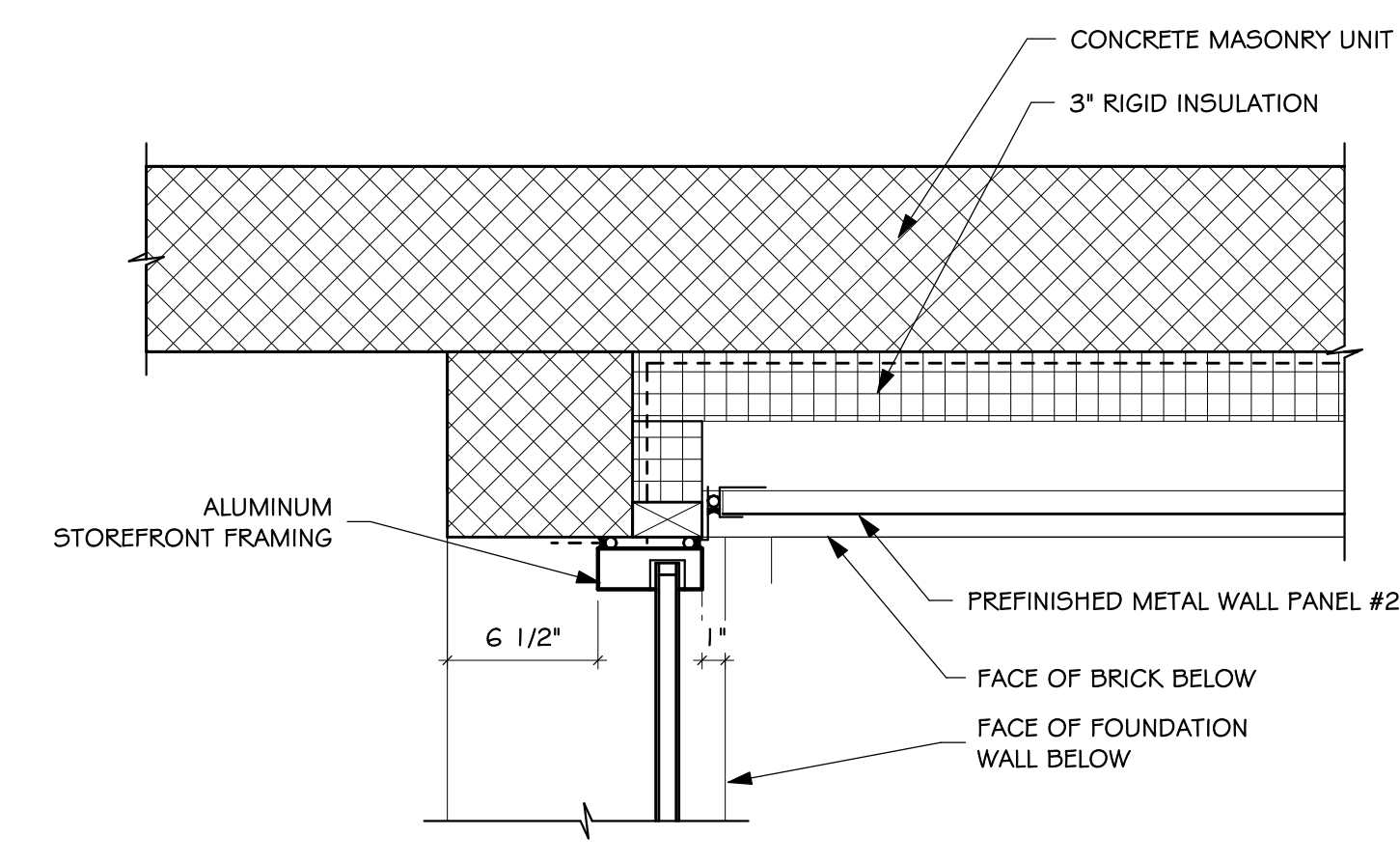
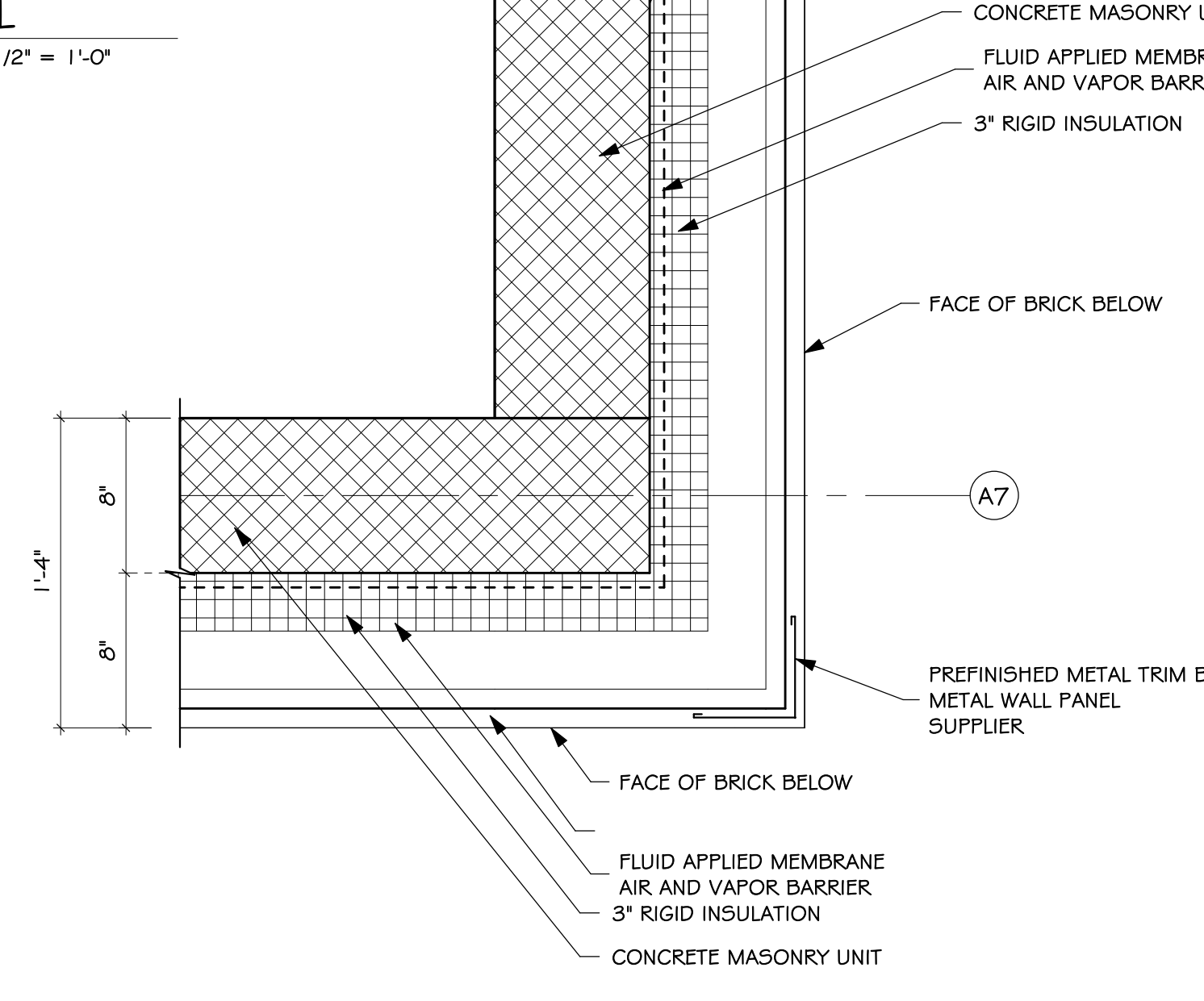
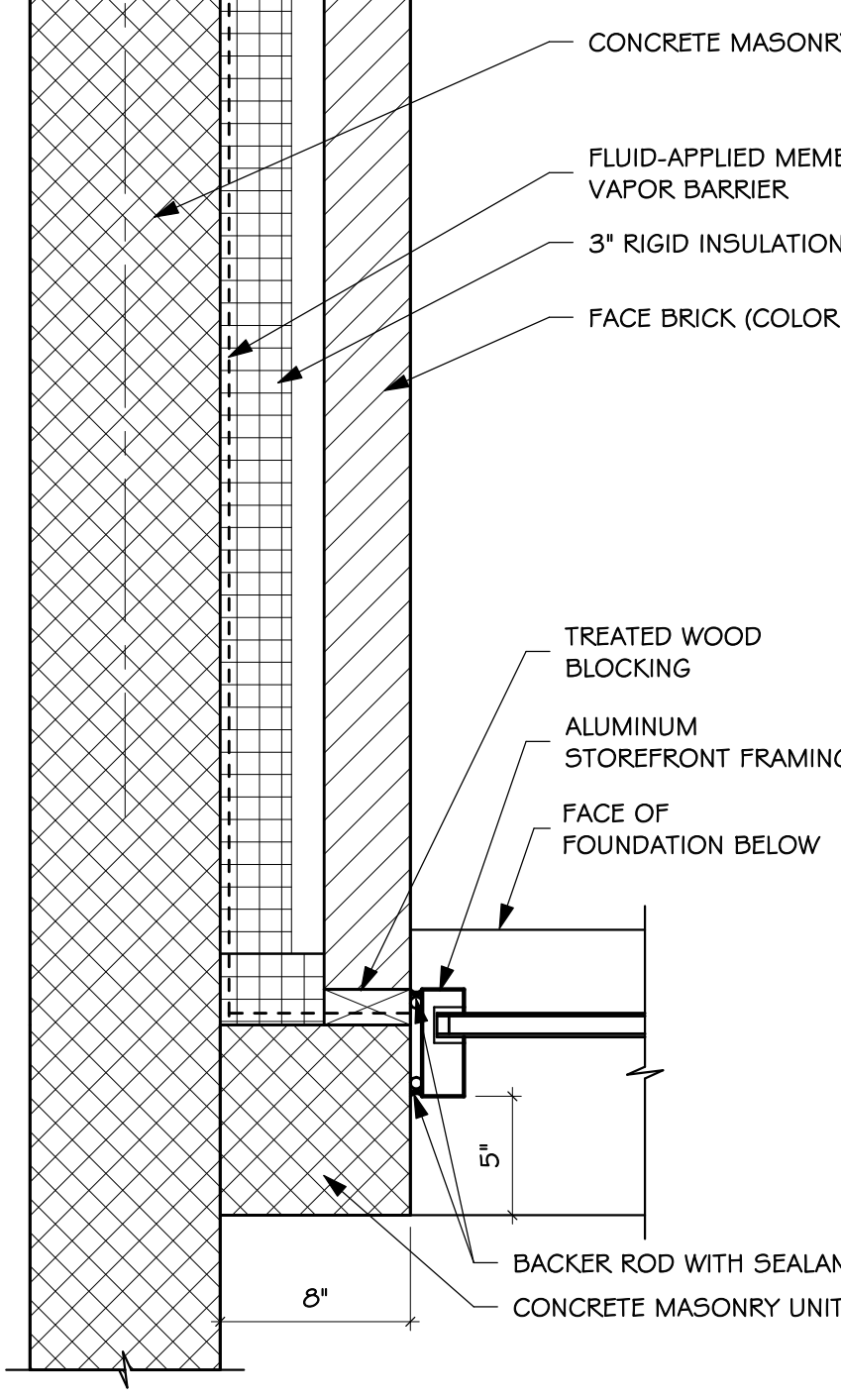
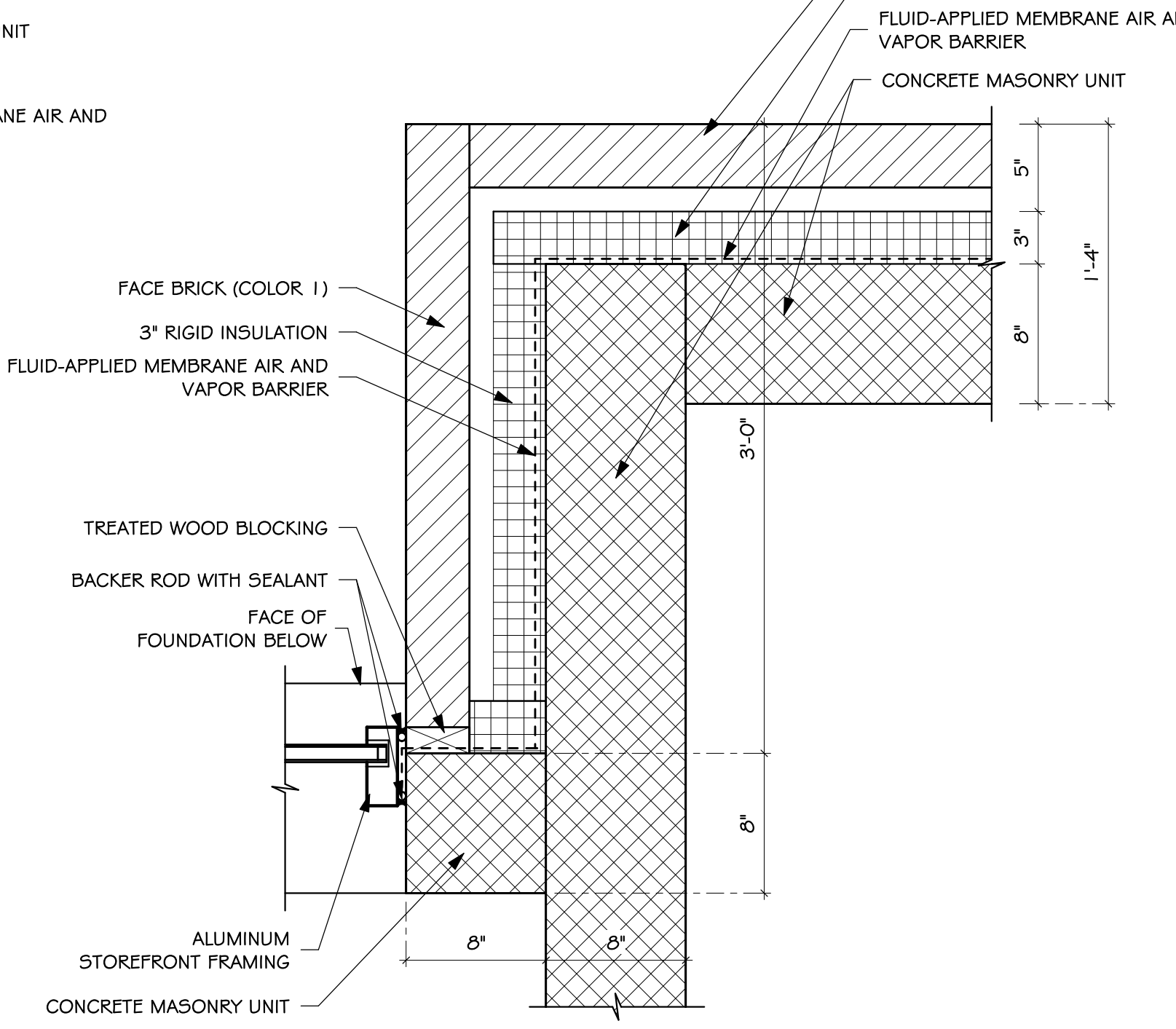
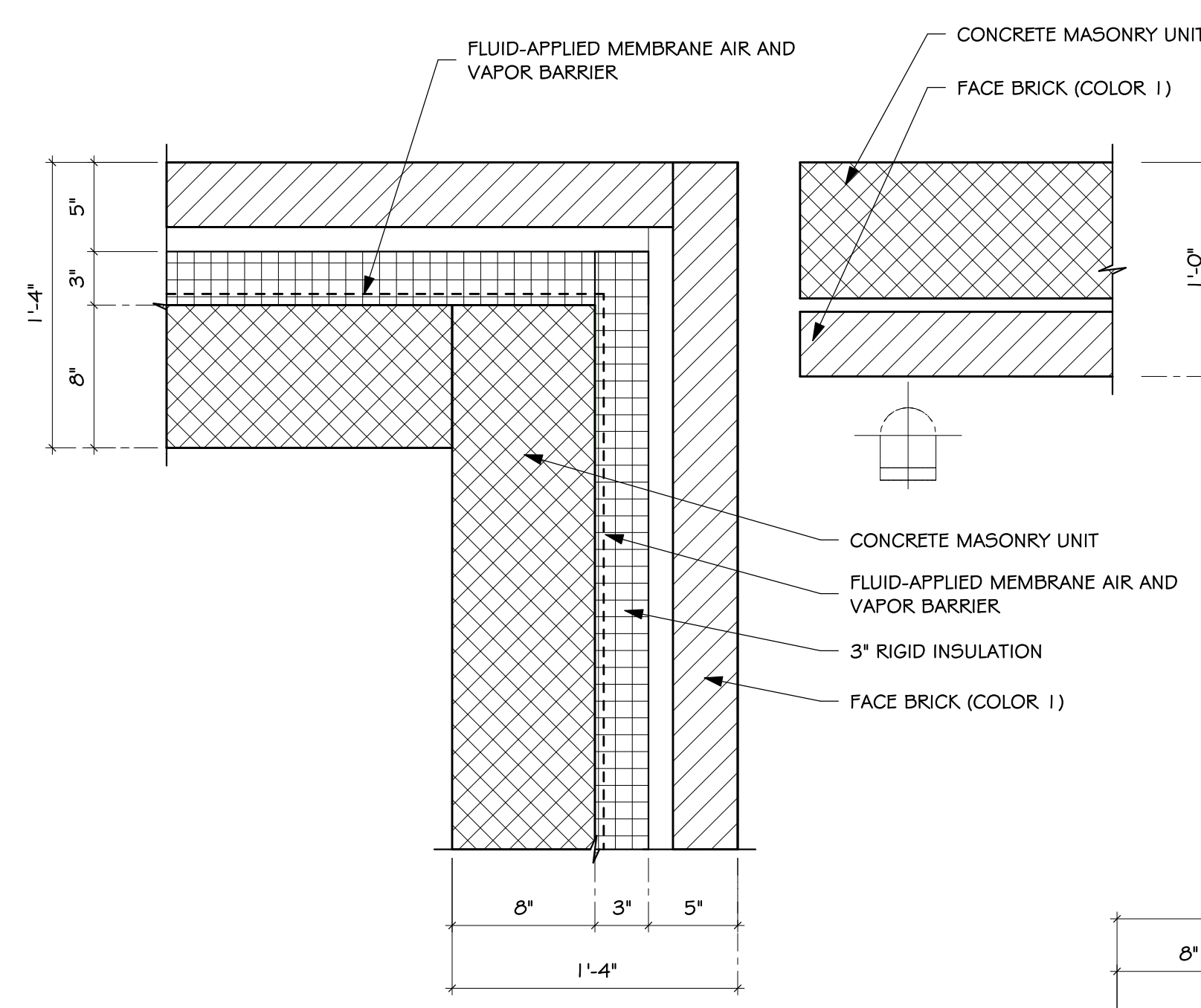
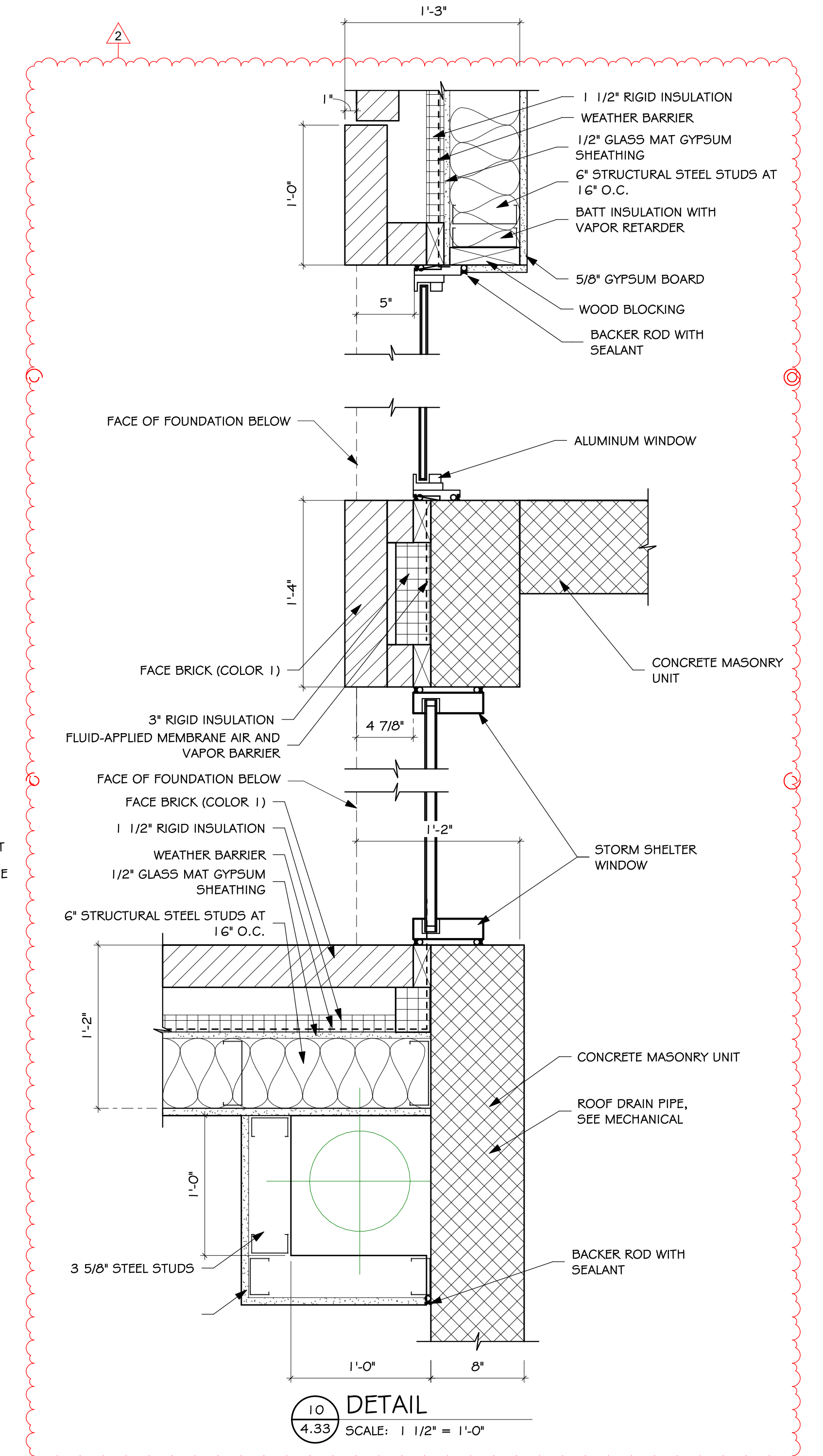
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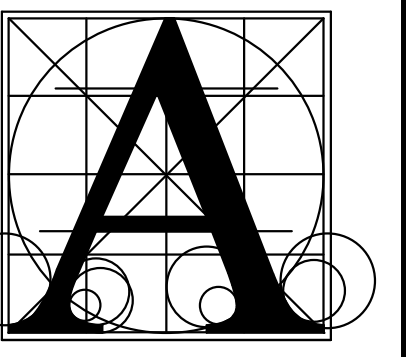
HARRISBURG ELEMENTARY SCHOOL #8
PLAN DETAILS- AREA A

Project	number	1011.3000.22
	date	JANUARY 27, 2023
	revision	
	drawn	M5 checked SRJ
NO.	DATE	DESCRIPTION
2	2/16/2023	ADDENDUM #2

4.33



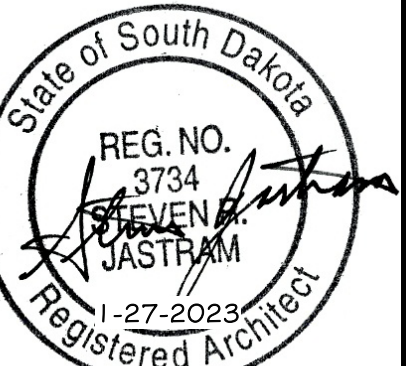
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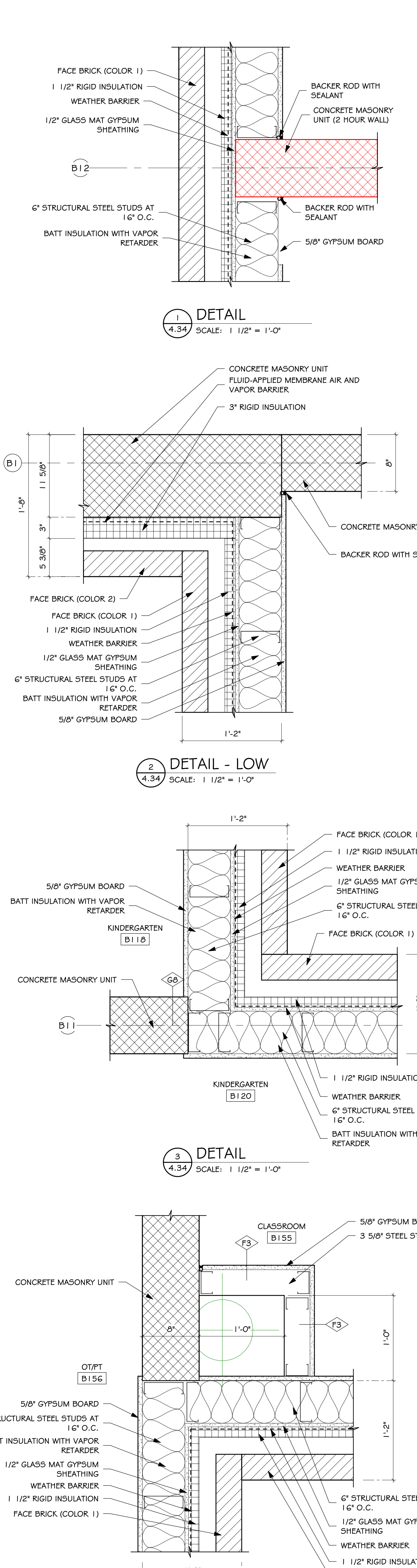
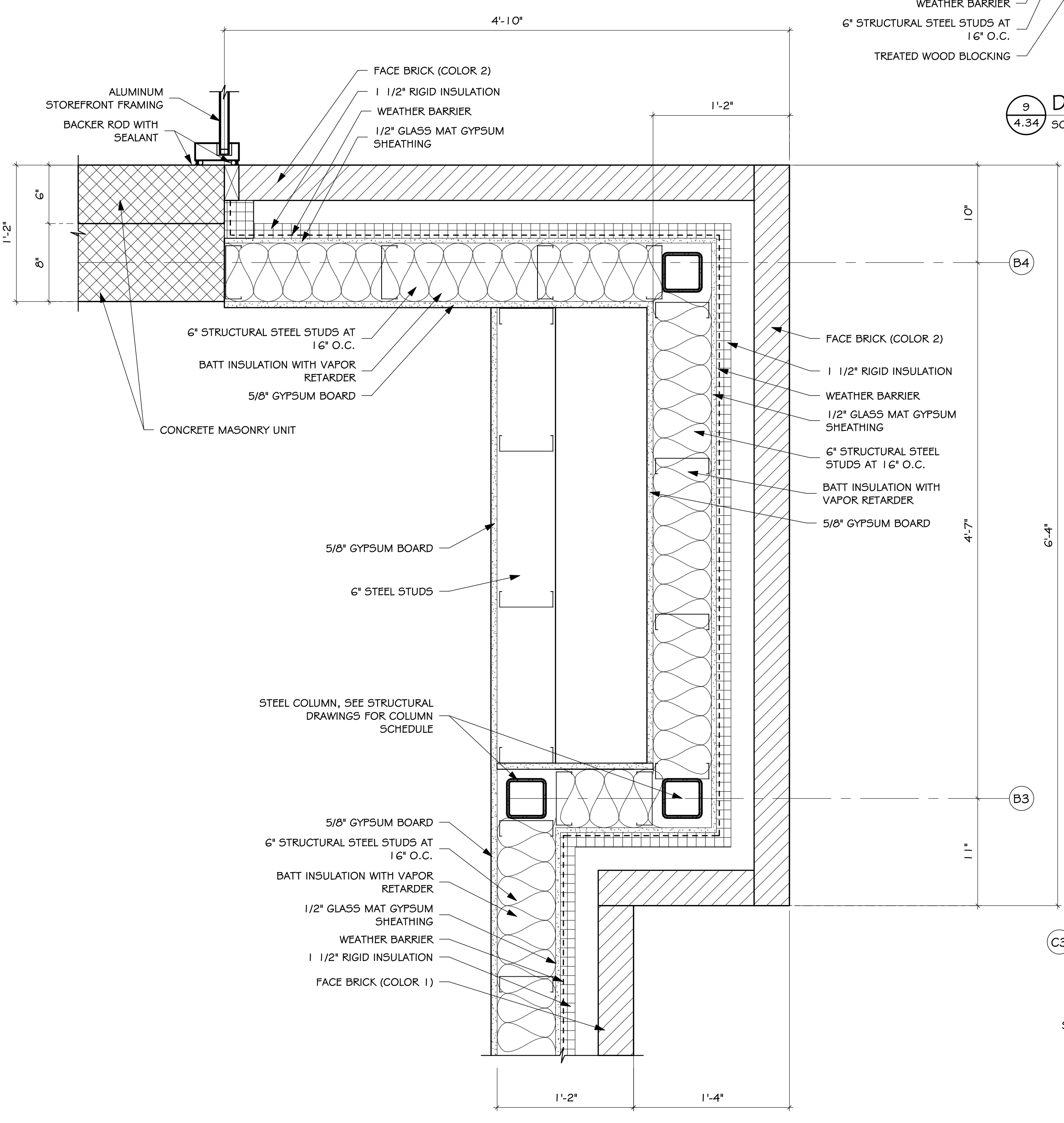
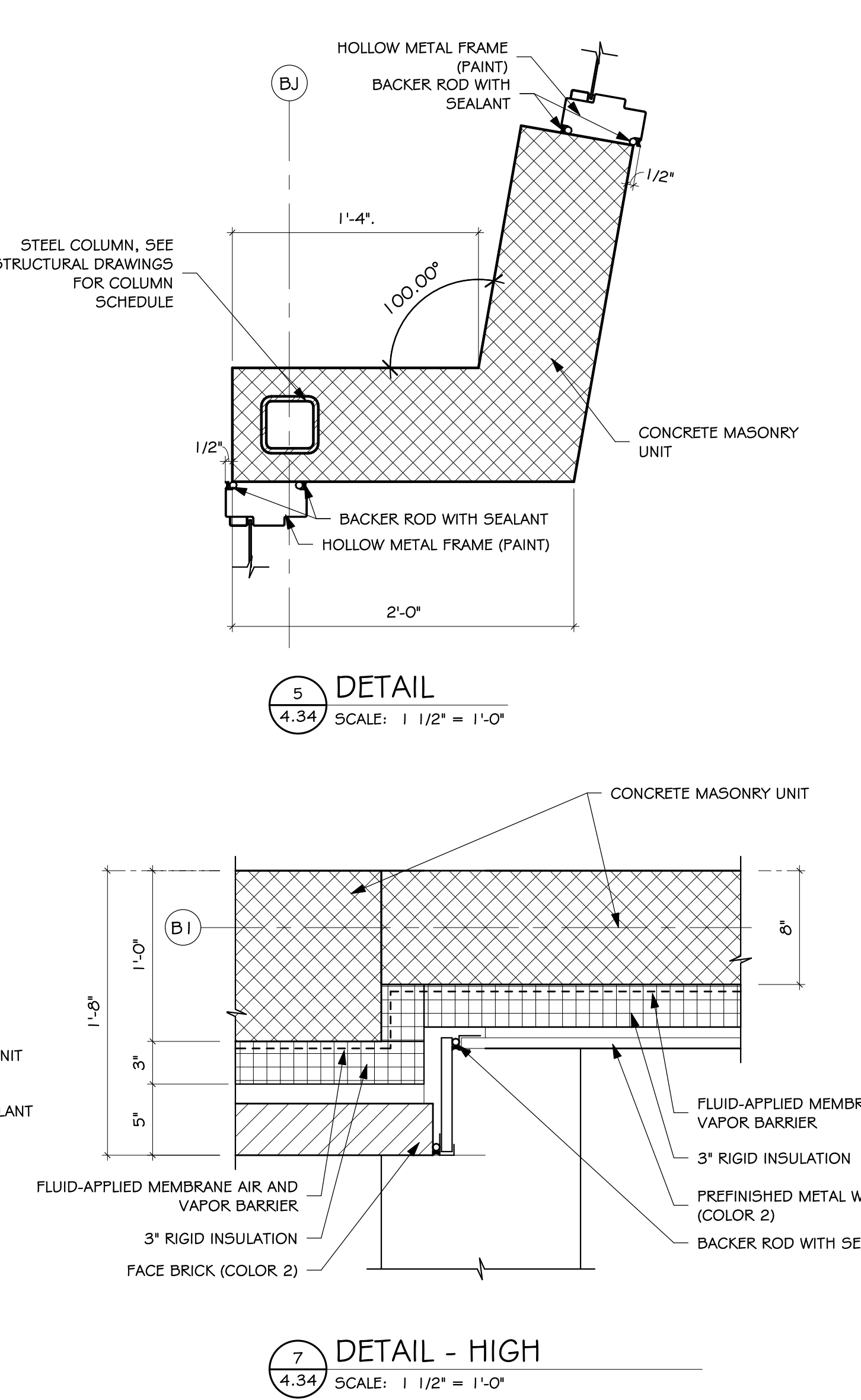
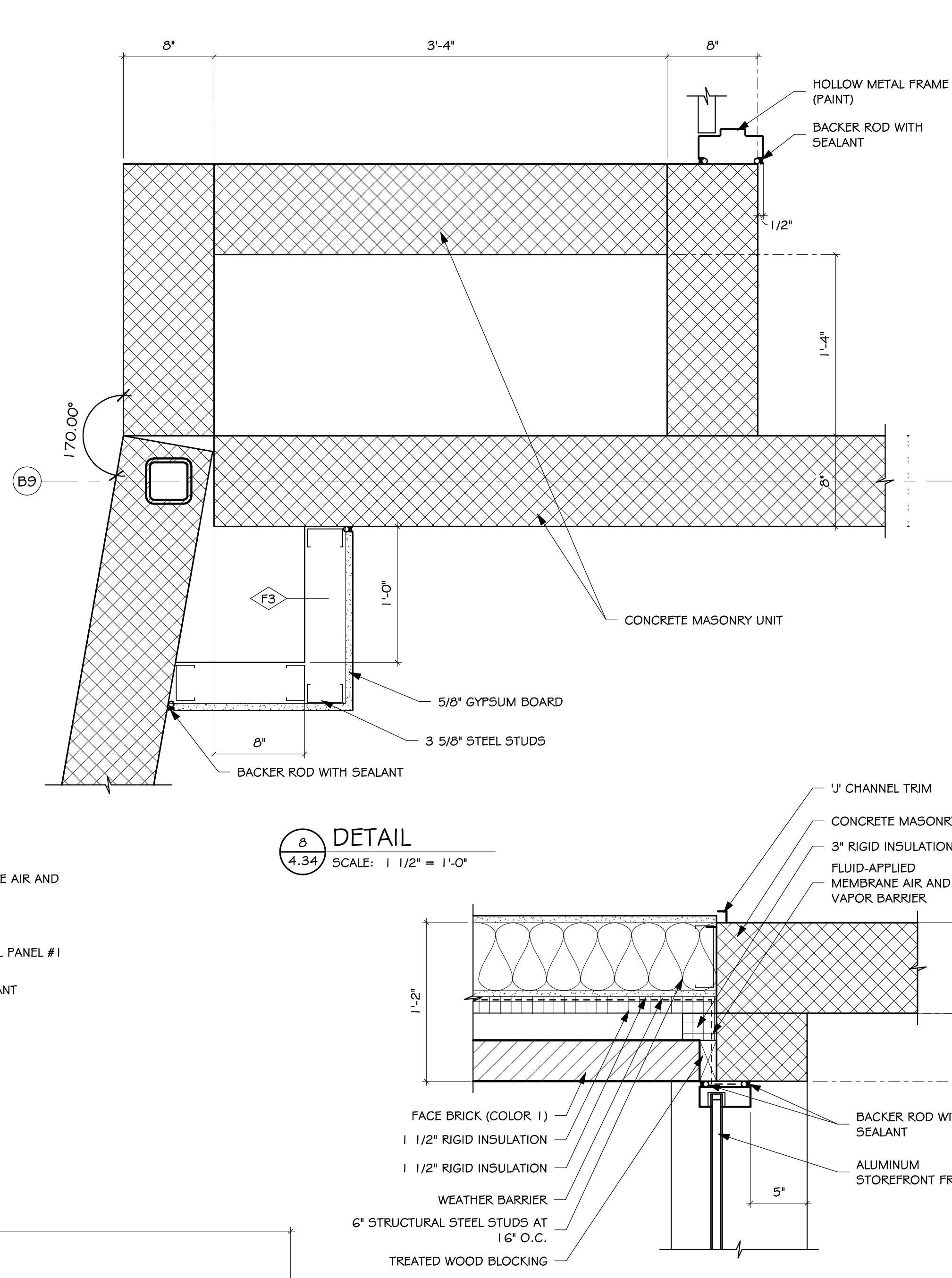
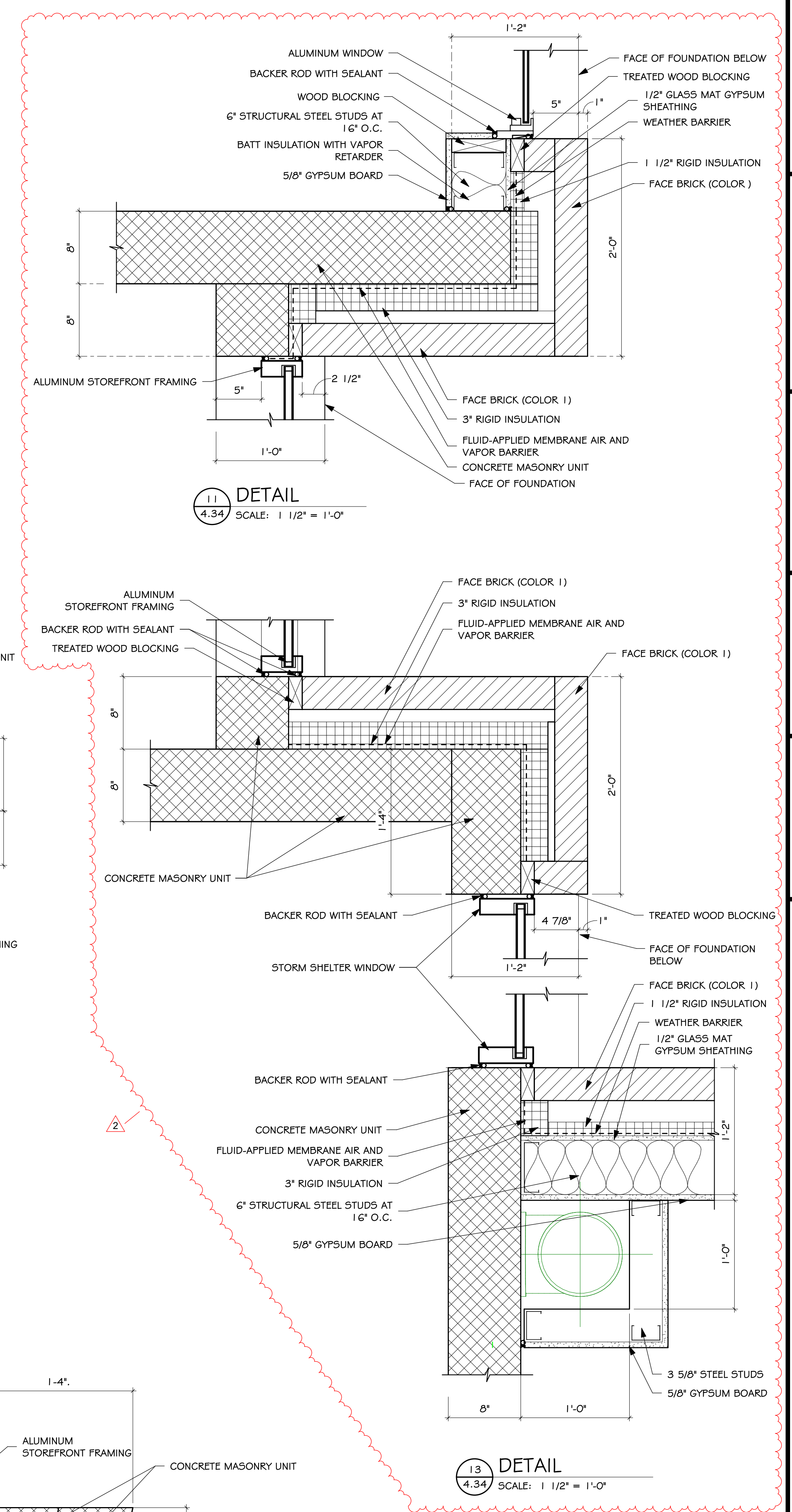


HARRISBURG ELEMENTARY SCHOOL #8
PLAN DETAILS - AREA B AND C

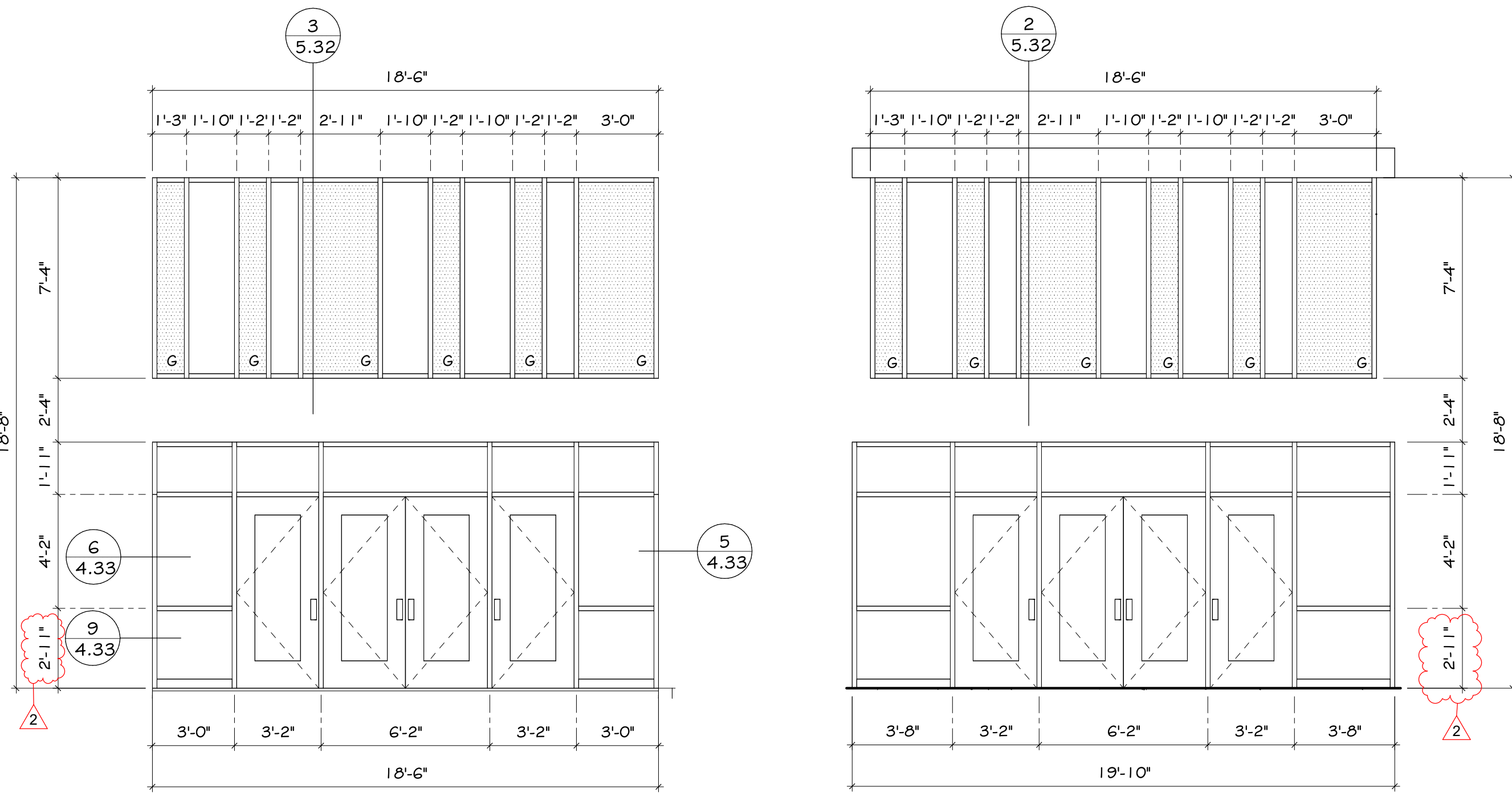
Project number 1011.3000.22
date JANUARY 27, 2023
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NO.	DATE	DESCRIPTION
2	2/16/2023	ADDENDUM #2

4.34

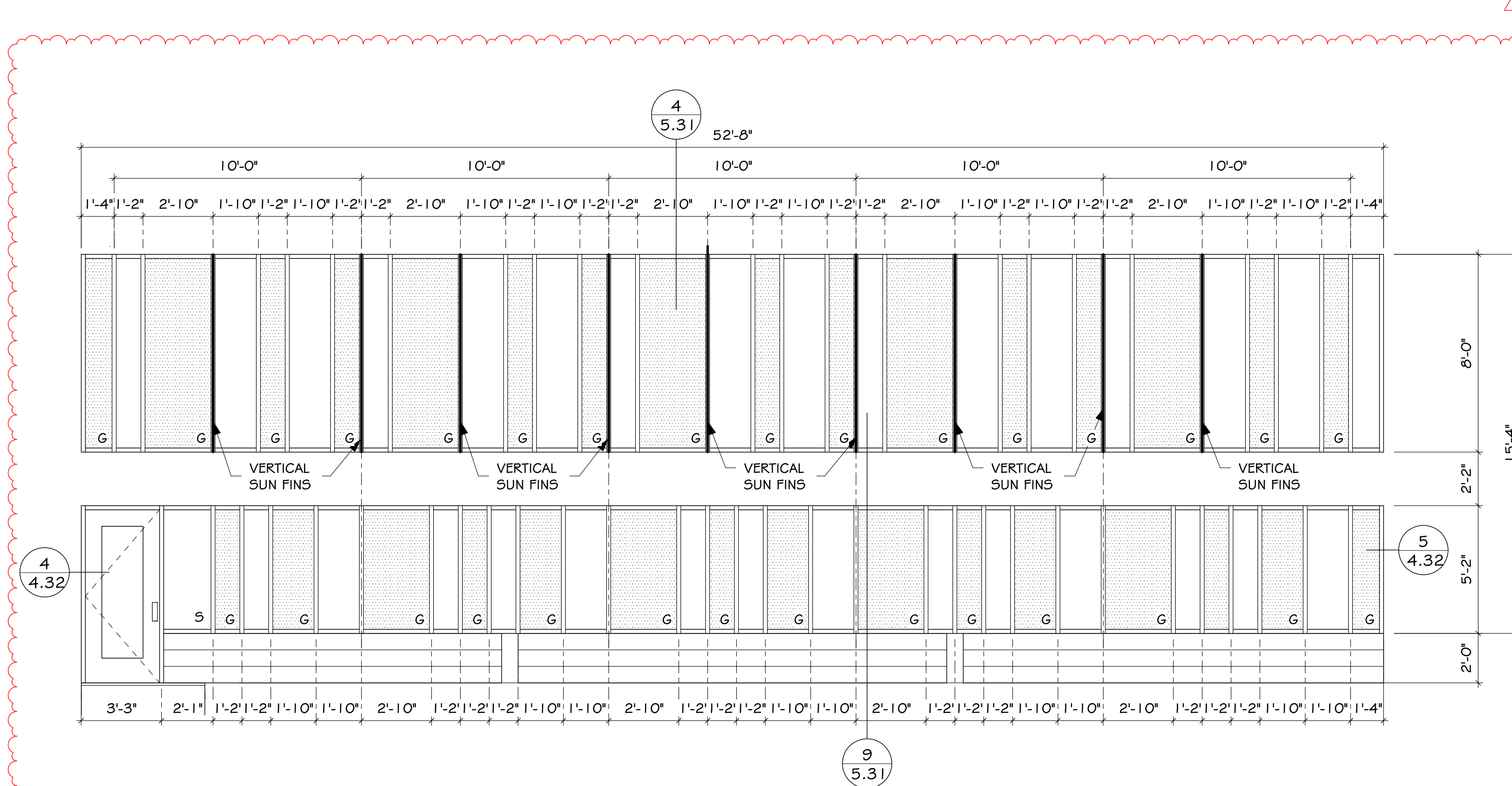


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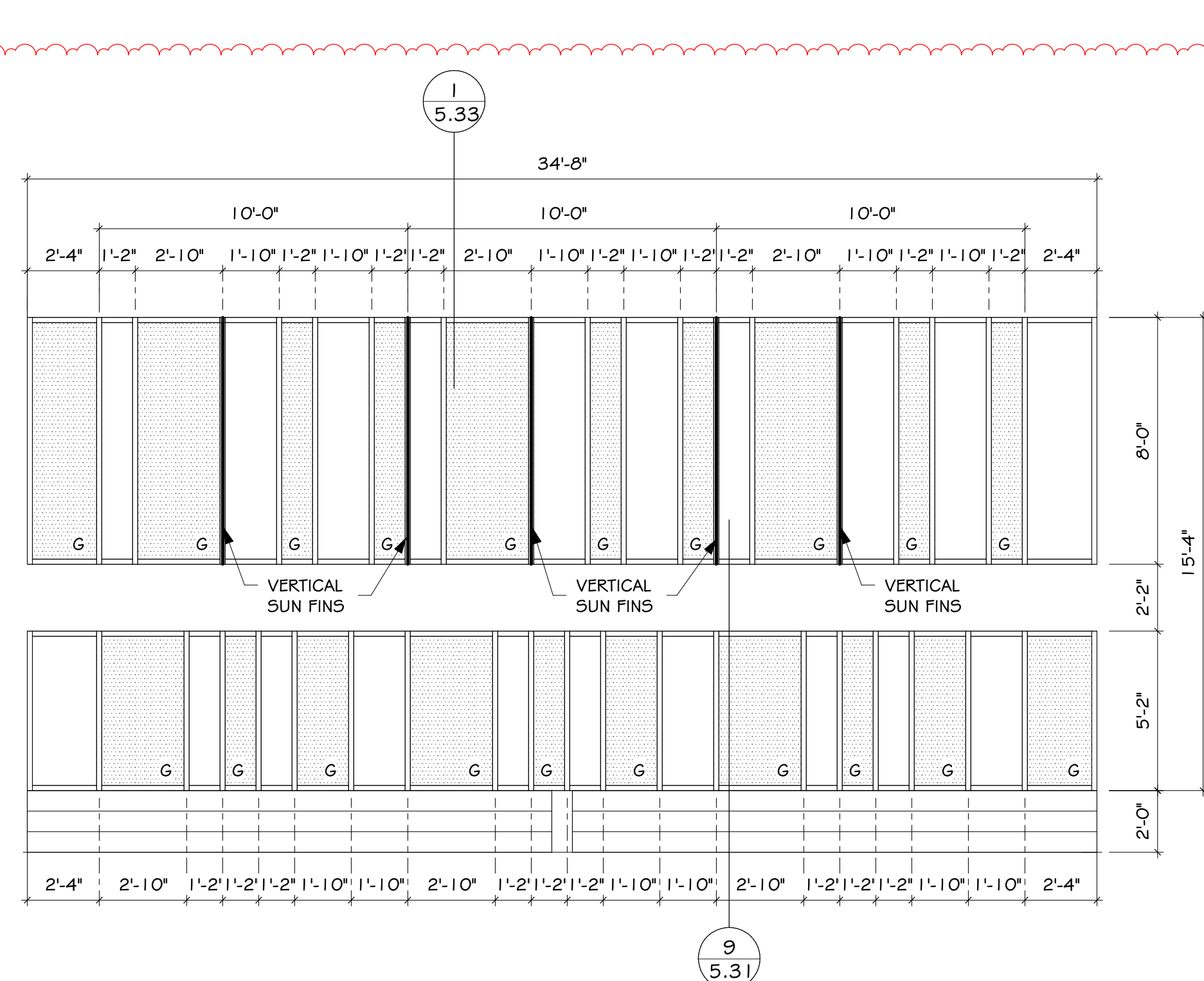


1 STOREFRONT
5.13 SCALE: 1/4" = 1'-0"

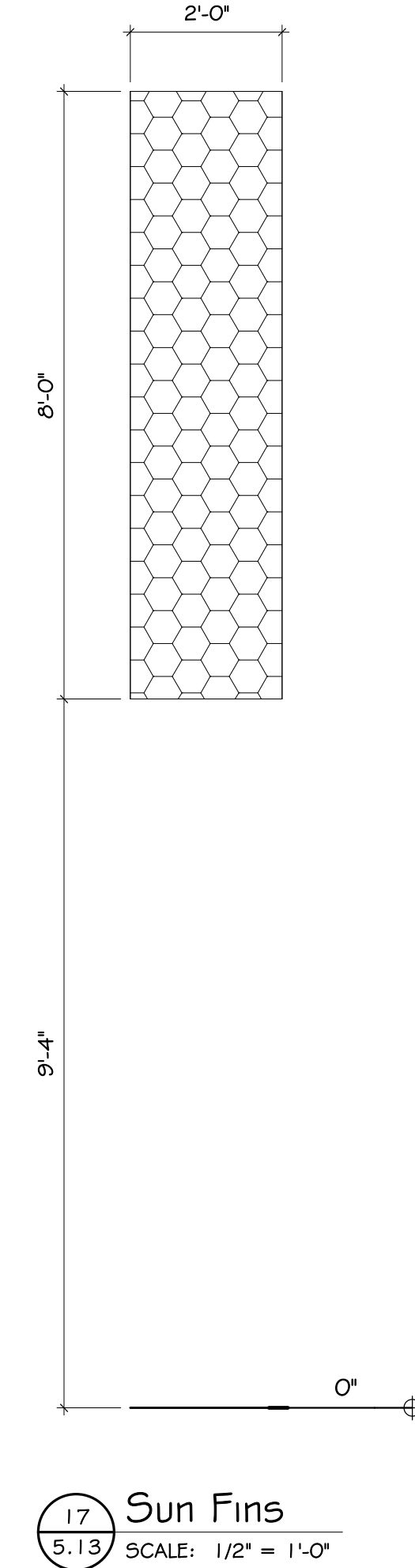
2 STOREFRONT
5.13 SCALE: 1/4" = 1'-0"



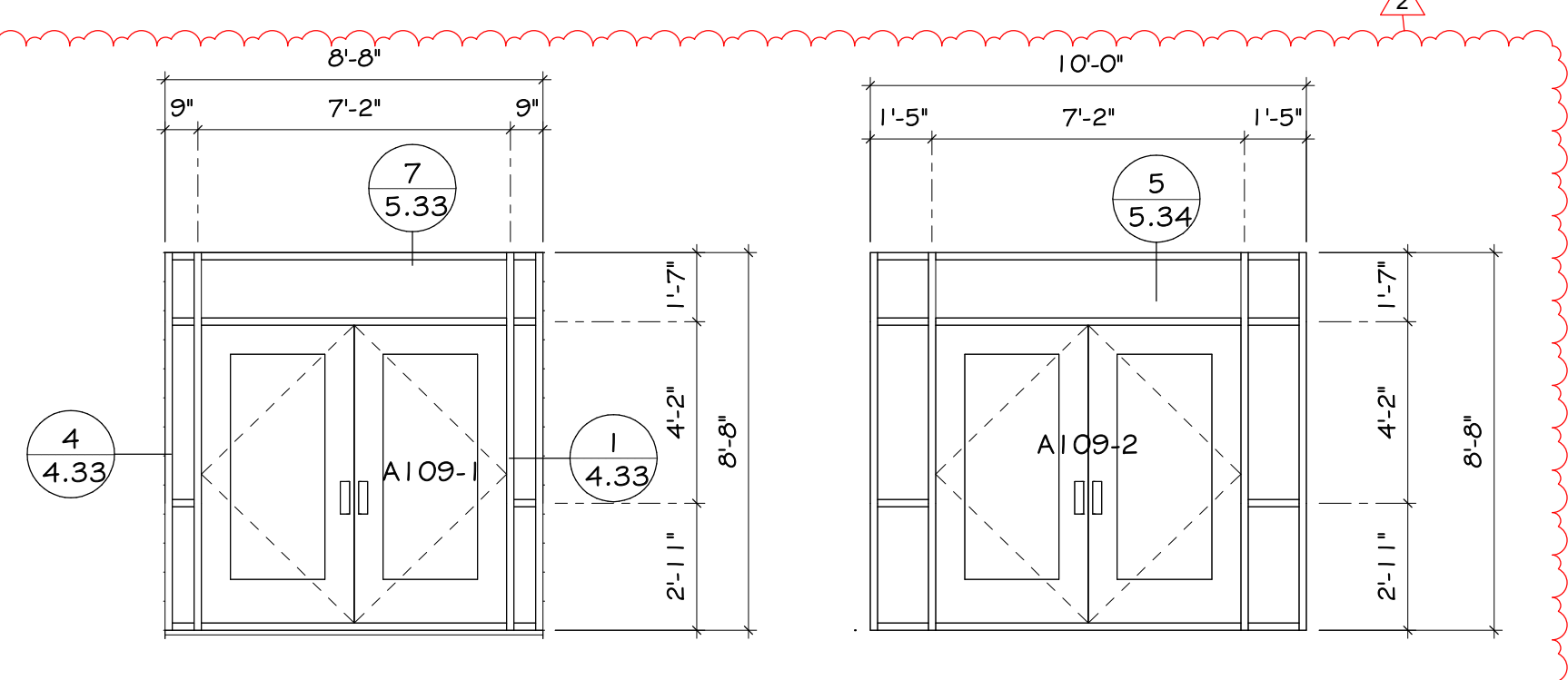
3 CURTAIN WALL WITH PERFORATED MTL VERTICAL LOUVERS
5.13 SCALE: 1/4" = 1'-0"



4 CURTAIN WALL WITH PERFORATED MTL VERTICAL LOUVERS
5.13 SCALE: 1/4" = 1'-0"

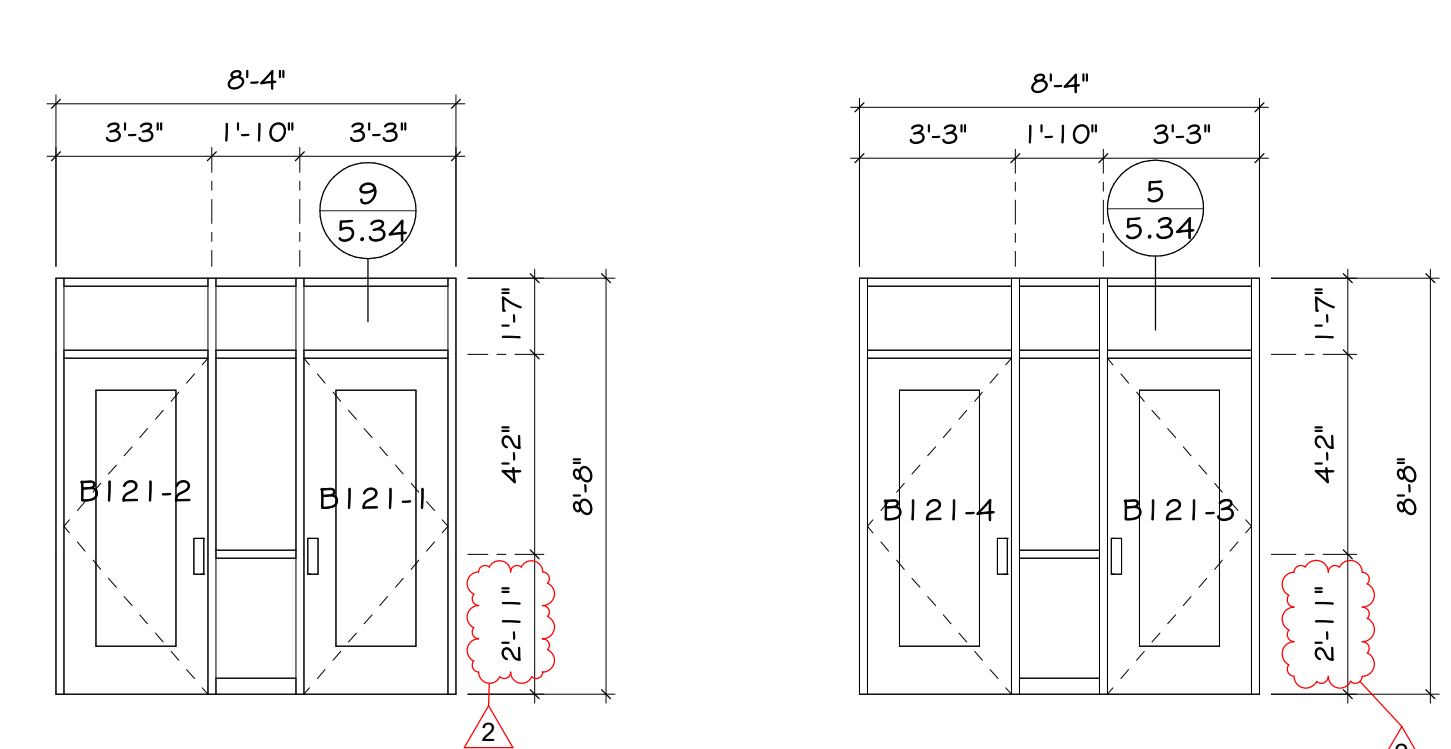


17 Sun Fins
5.13 SCALE: 1/2" = 1'-0"



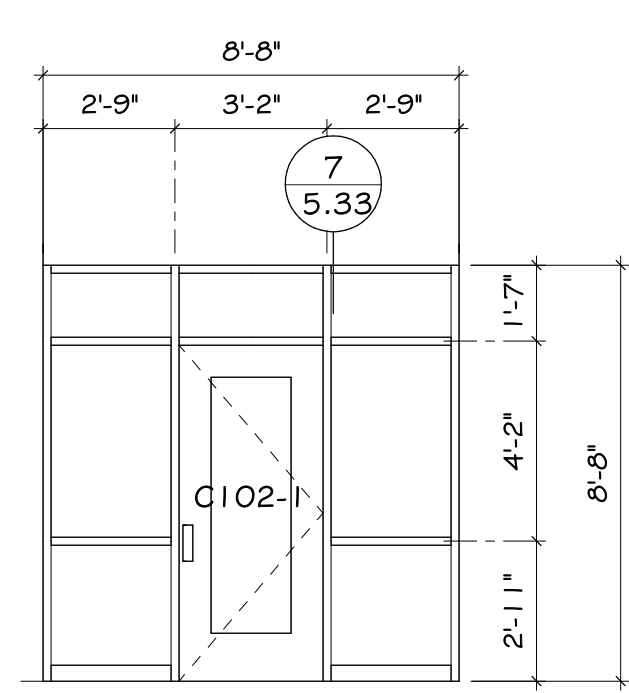
5 STOREFRONT (EXTERIOR)
5.13 SCALE: 1/4" = 1'-0"

6 STOREFRONT (INTERIOR)
5.13 SCALE: 1/4" = 1'-0"

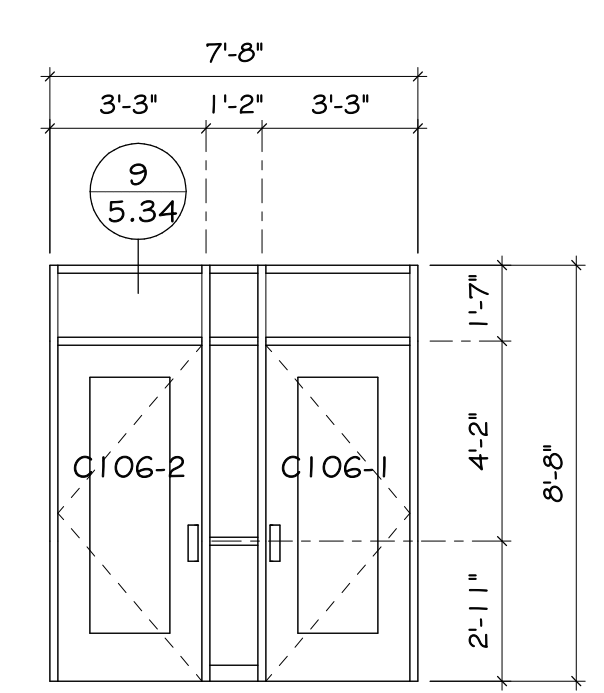


7 STOREFRONT
5.13 SCALE: 1/4" = 1'-0"

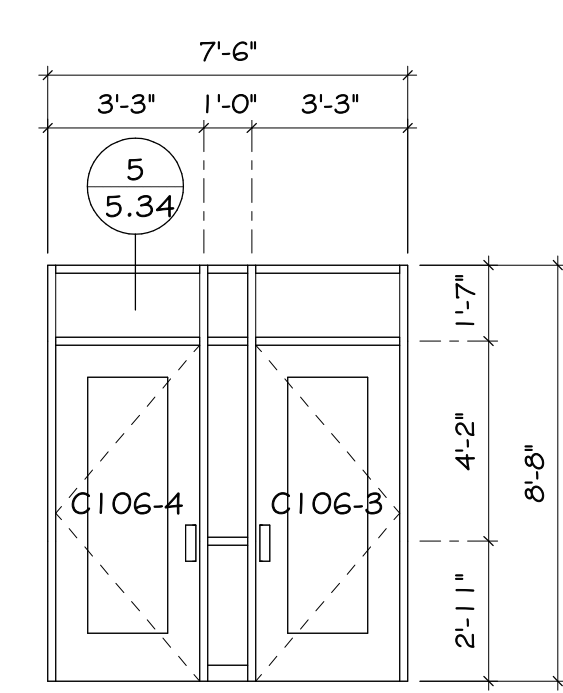
8 STOREFRONT
5.13 SCALE: 1/4" = 1'-0"



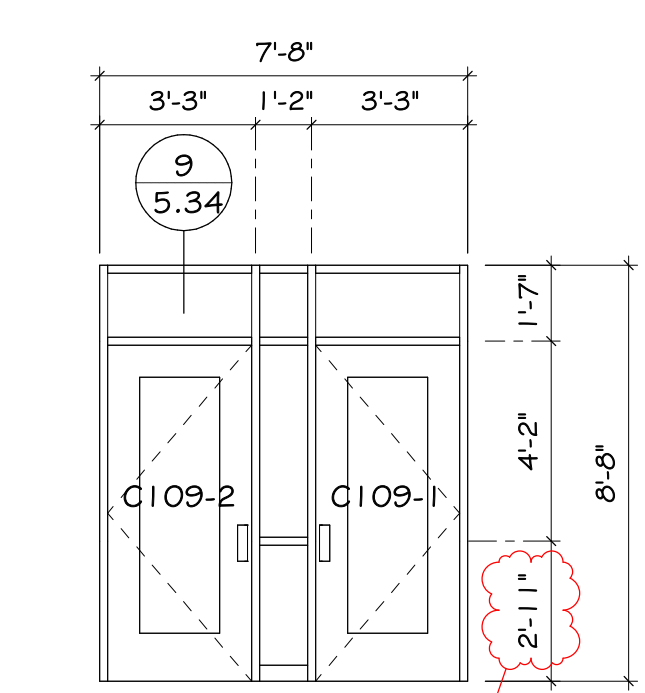
9 STOREFRONT
5.13 SCALE: 1/4" = 1'-0"



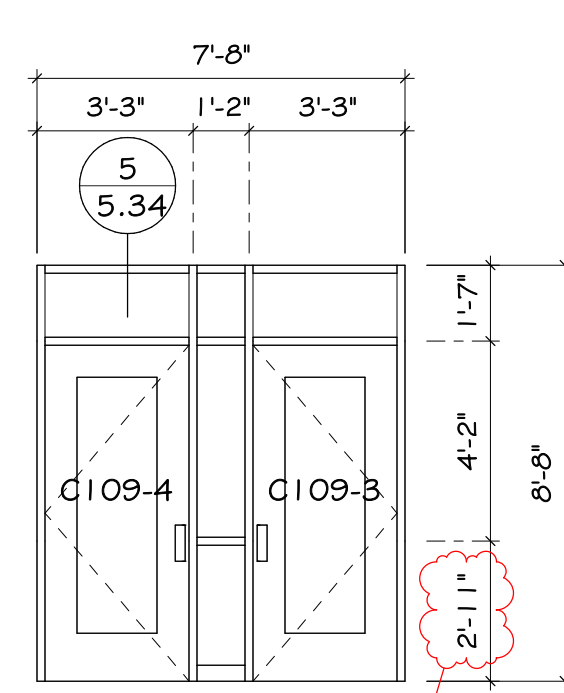
10 STOREFRONT
5.13 SCALE: 1/4" = 1'-0"



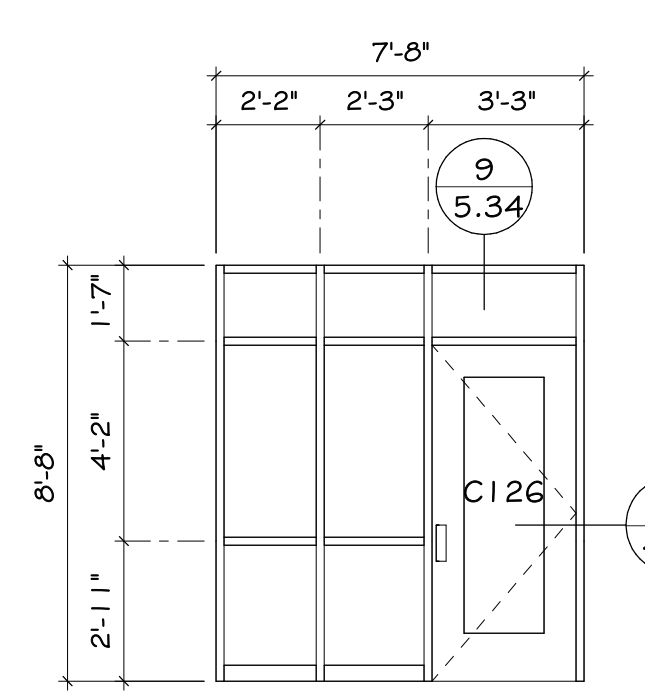
11 STOREFRONT
5.13 SCALE: 1/4" = 1'-0"



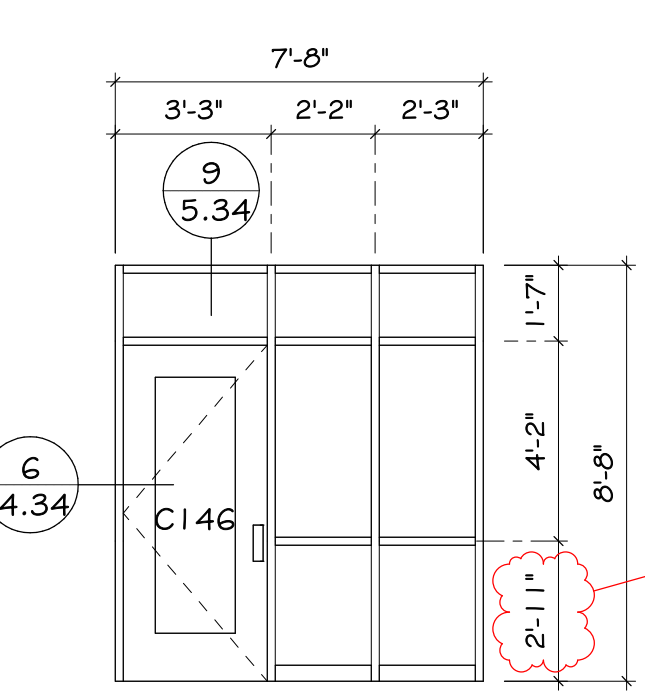
12 STOREFRONT
5.13 SCALE: 1/4" = 1'-0"



13 STOREFRONT
5.13 SCALE: 1/4" = 1'-0"



14 STOREFRONT
5.13 SCALE: 1/4" = 1'-0"



15 STOREFRONT
5.13 SCALE: 1/4" = 1'-0"

WINDOW TYPES

INDICATED THUS ON FLOOR PLANS

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

WINDOW TYPES SCHEDULE						
MARK	MATL	GLASS	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	NOTES
A	ALUM	1" INSL	1/5.14	2/5.14, 3/5.14	4/5.14	
B	ALUM	1" INSL	1/5.14	2/5.14, 3/5.14	4/5.14	
C	ALUM	1" INSL	1/5.14	2/5.14, 3/5.14	4/5.14	
D	ALUM	1" INSL	5/5.14	6/5.14, 7/5.14	8/5.14	
E	ALUM	1" INSL	1/5.34, 6/5.31	1/5.14, 6/5.31	1/5.14, 6/5.31	
F	ALUM	GLASS CLAD POLY.	1/5.14	1/04.33, 1/34.34	1/6.14	STORM SHELTER WINDOW

GLASS LEGEND

ALL GLASS IS CLEAR 1" INSL UNLESS NOTED OTHERWISE

C = CLEAR
S = SAFETY
L = 1/4" LAMINATED
IL = 1" INSL SPTY LAMINATED
G = GRAY TINTED INSULATED GLAZING

SEE DOOR SCHEDULE FOR ADDITIONAL GLASS INFORMATION

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State of South Dakota
REG. NO. 3734
JASTHAM
Registered Architect

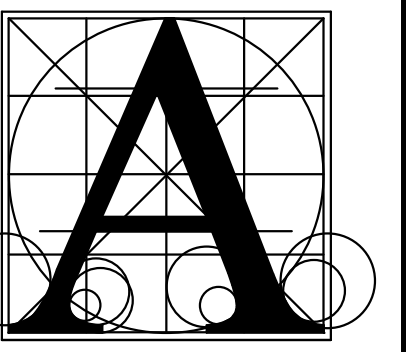
HARRISBURG ELEMENTARY SCHOOL #8

ALUMINUM WINDOW AND STOREFRONT ELEVATIONS

Project: HARRISBURG ELEMENTARY SCHOOL #8

number: 1011.3000.22
date: JANUARY 27, 2023
revision: 2
drawn: SM checked: SRJ

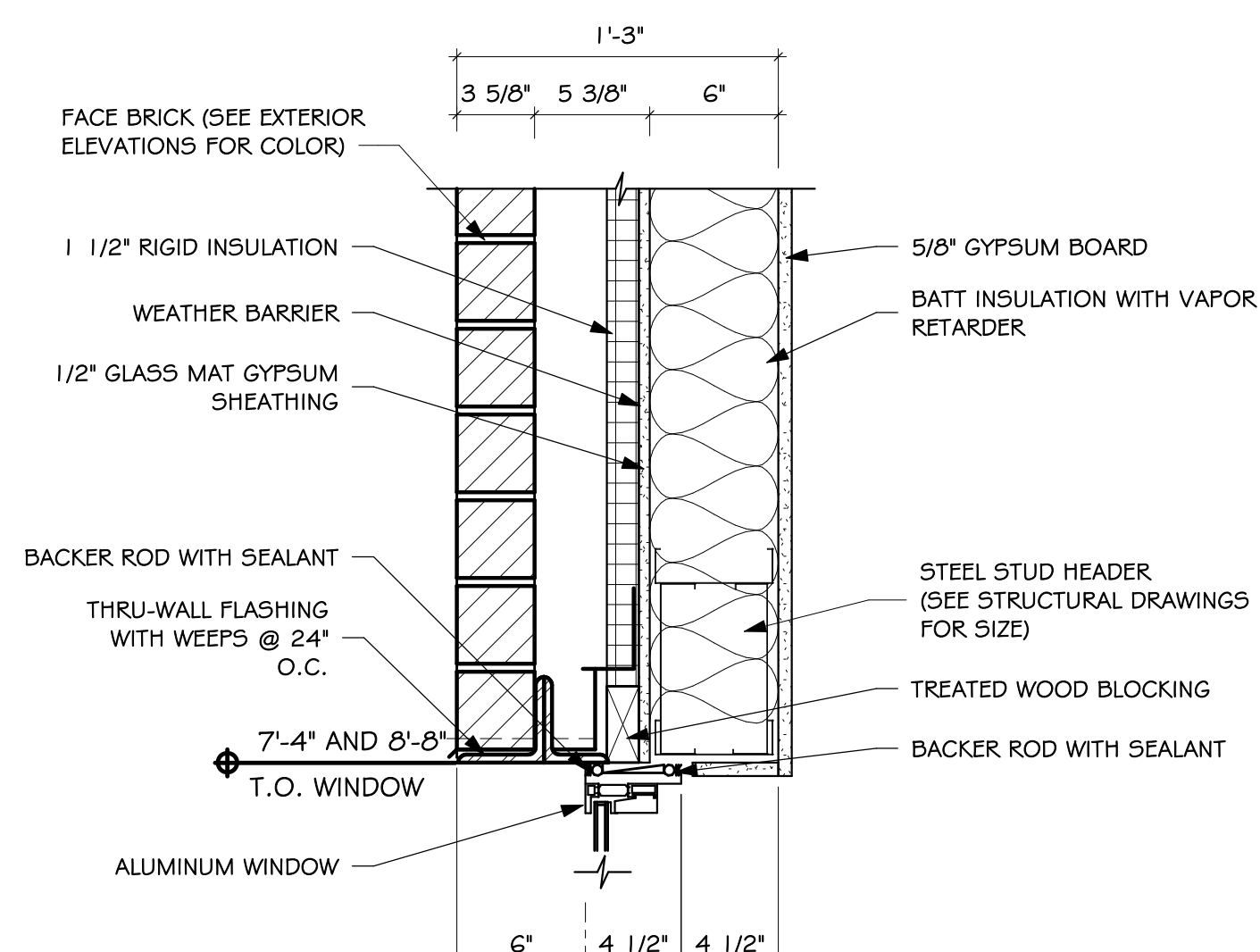
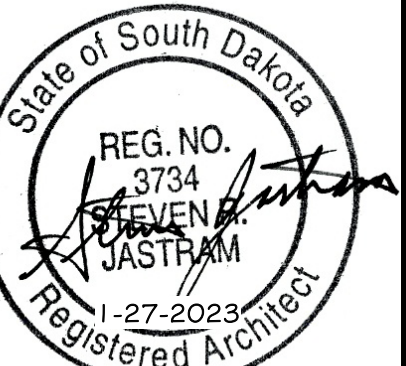
NO.	DATE	DESCRIPTION
1	2/9/2023	ADDENDUM #1
2	2/16/2023	ADDENDUM #2



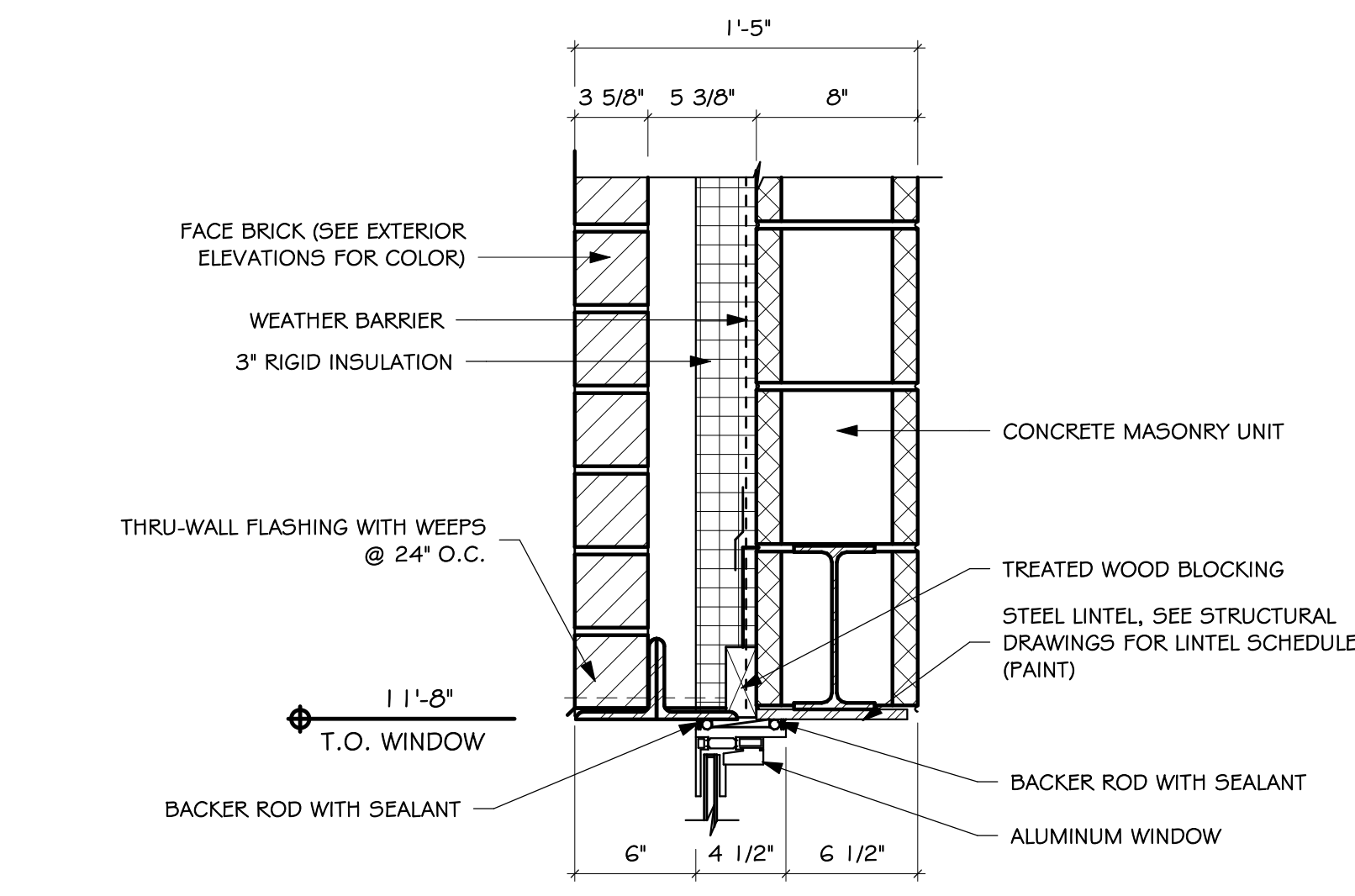
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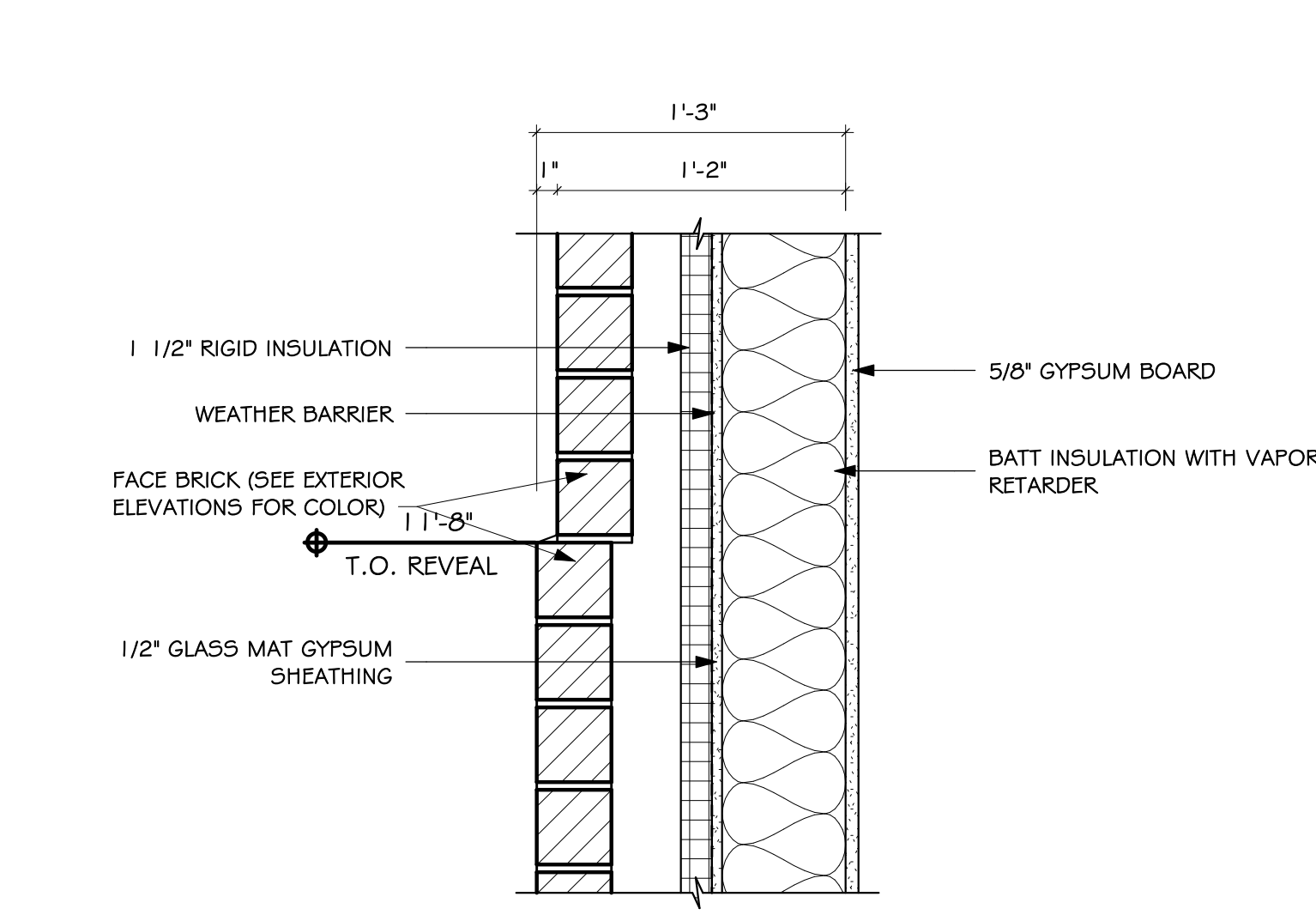
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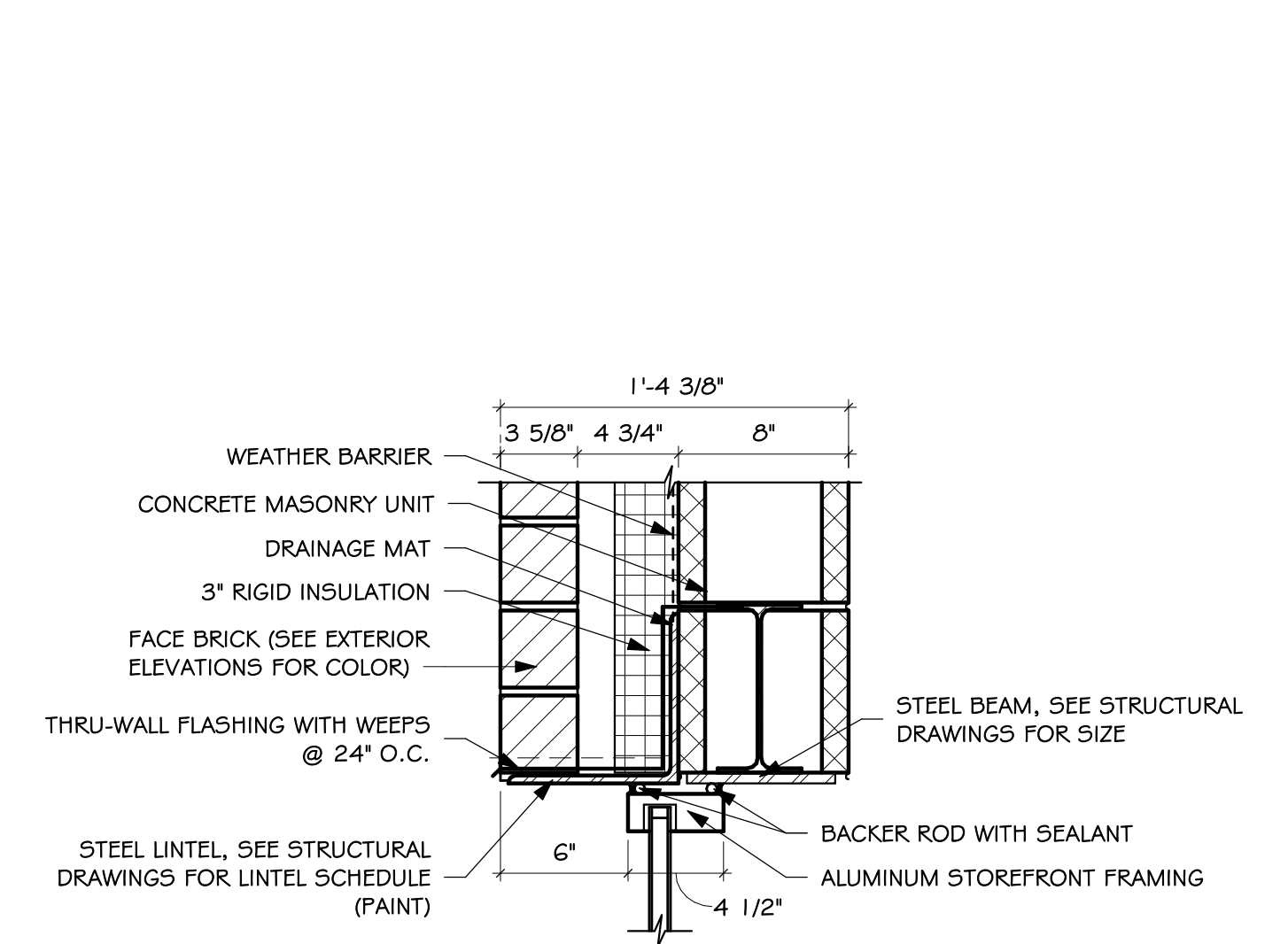
1 HEAD DETAIL
5.14 SCALE: 1/2" = 1'-0"



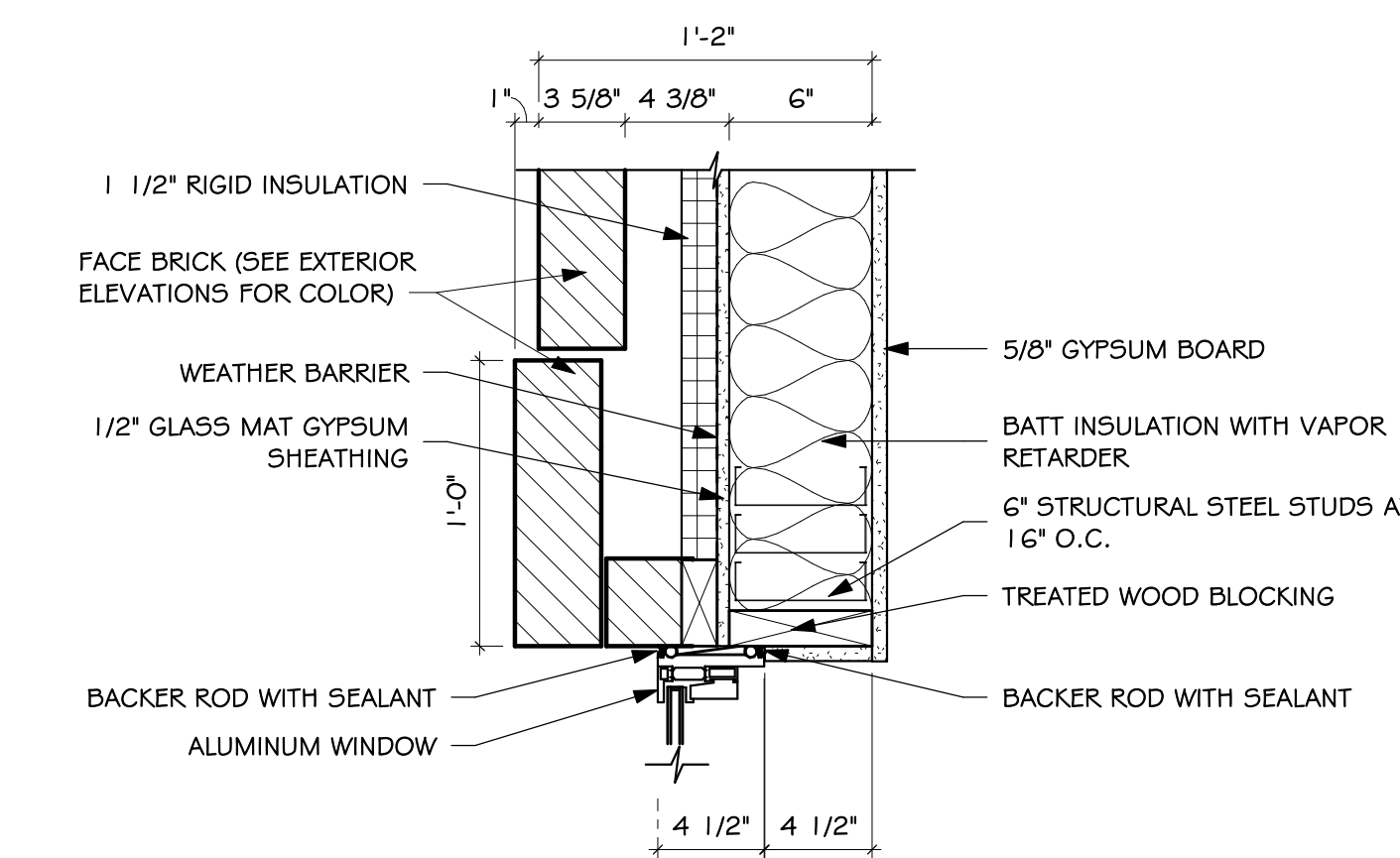
5 HEAD DETAIL
5.14 SCALE: 1/2" = 1'-0"



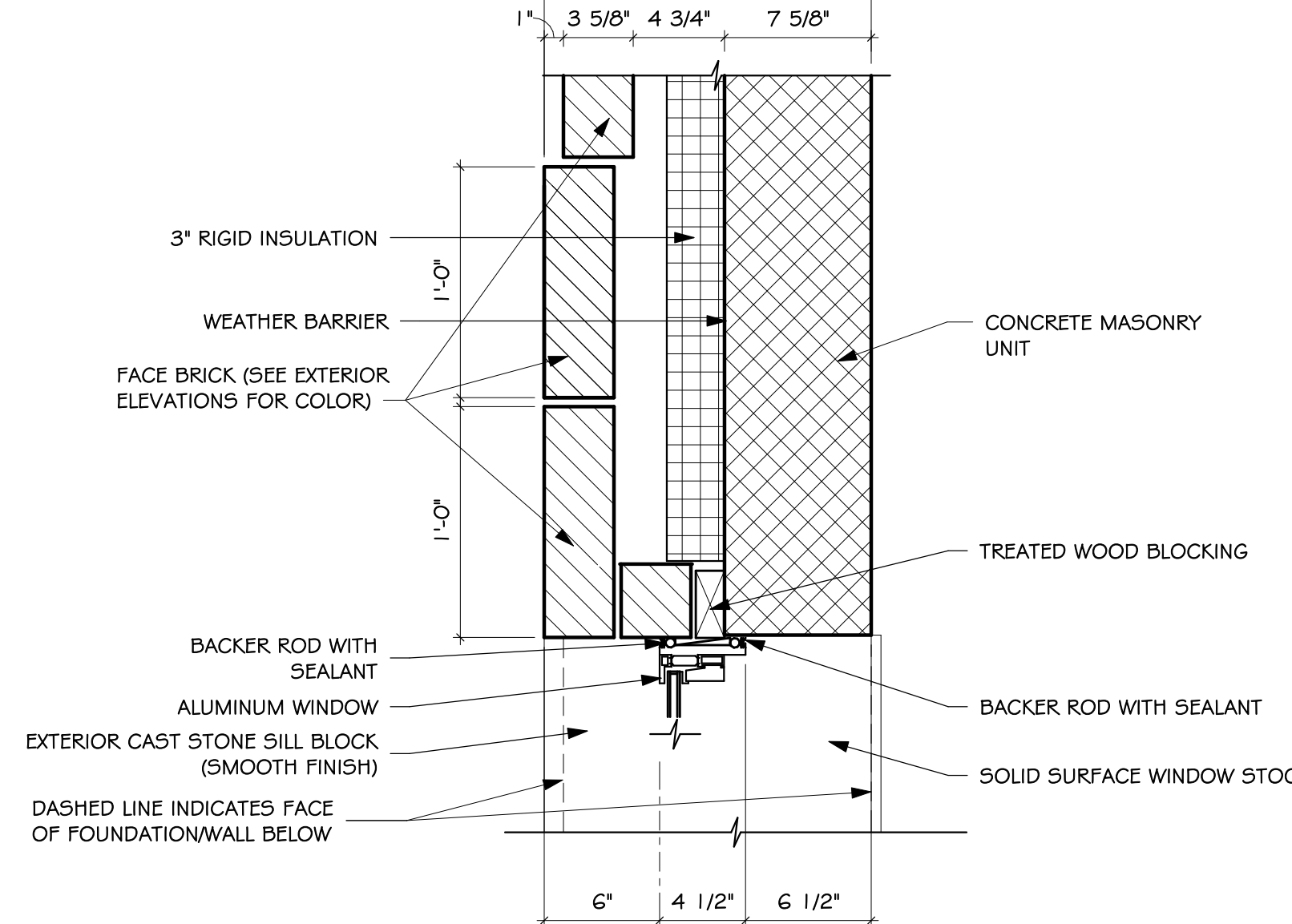
9 BRICK DETAIL
5.14 SCALE: 1/2" = 1'-0"



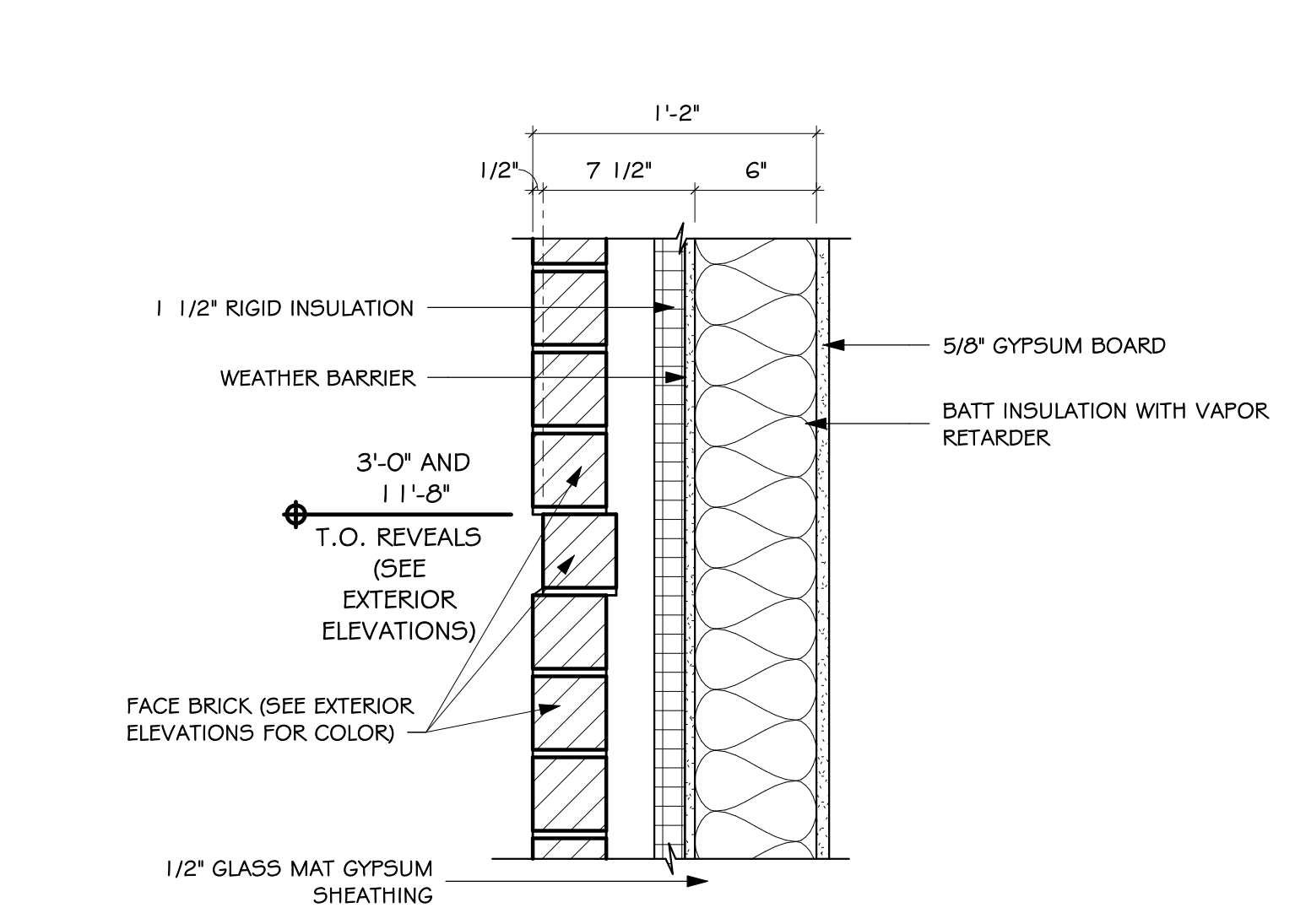
12 HEAD - ALUMINUM STOREFRONT
5.14 SCALE: 1/2" = 1'-0"



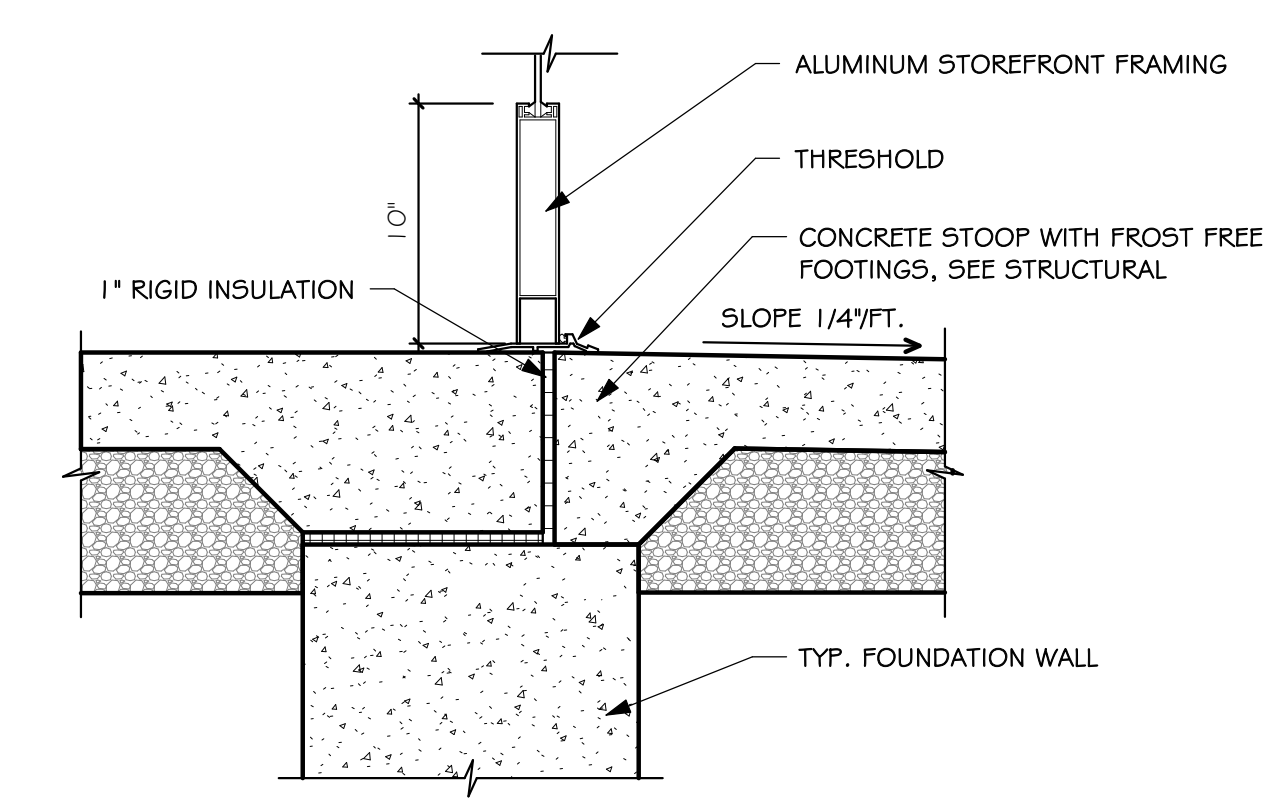
2 JAMB DETAIL
5.14 SCALE: 1/2" = 1'-0"



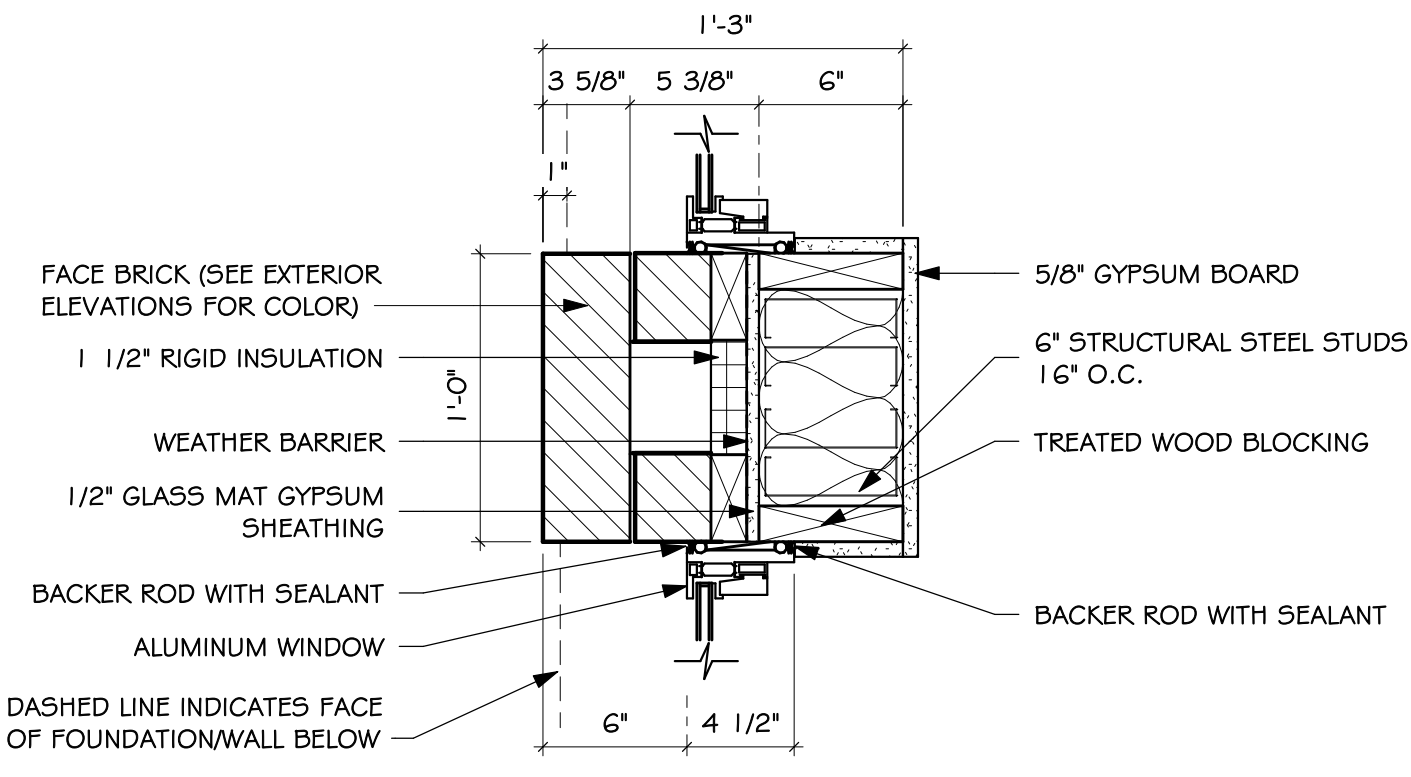
5 JAMB DETAIL
5.14 SCALE: 1/2" = 1'-0"



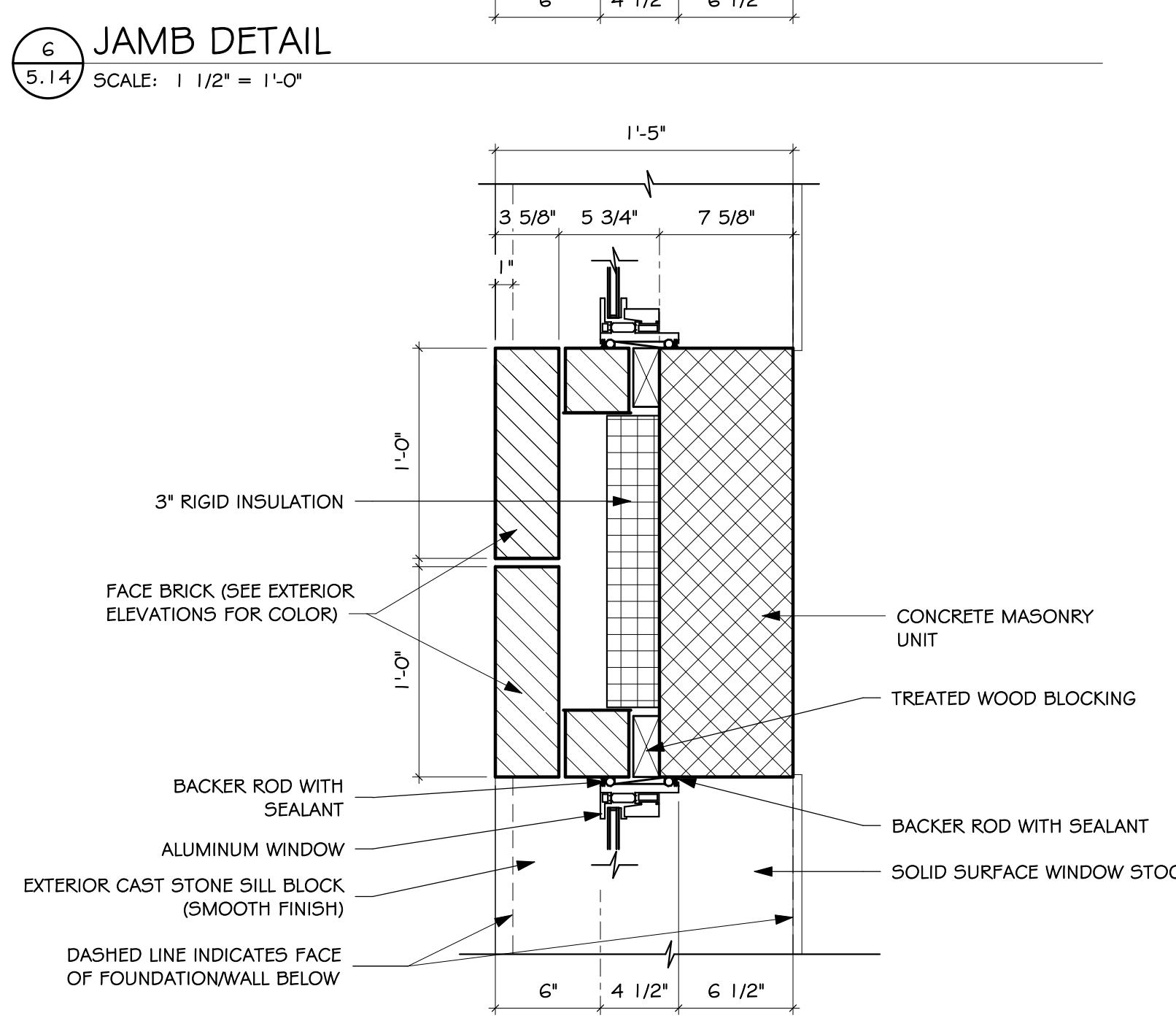
9 REVEAL DETAIL
5.14 SCALE: 1/2" = 1'-0"



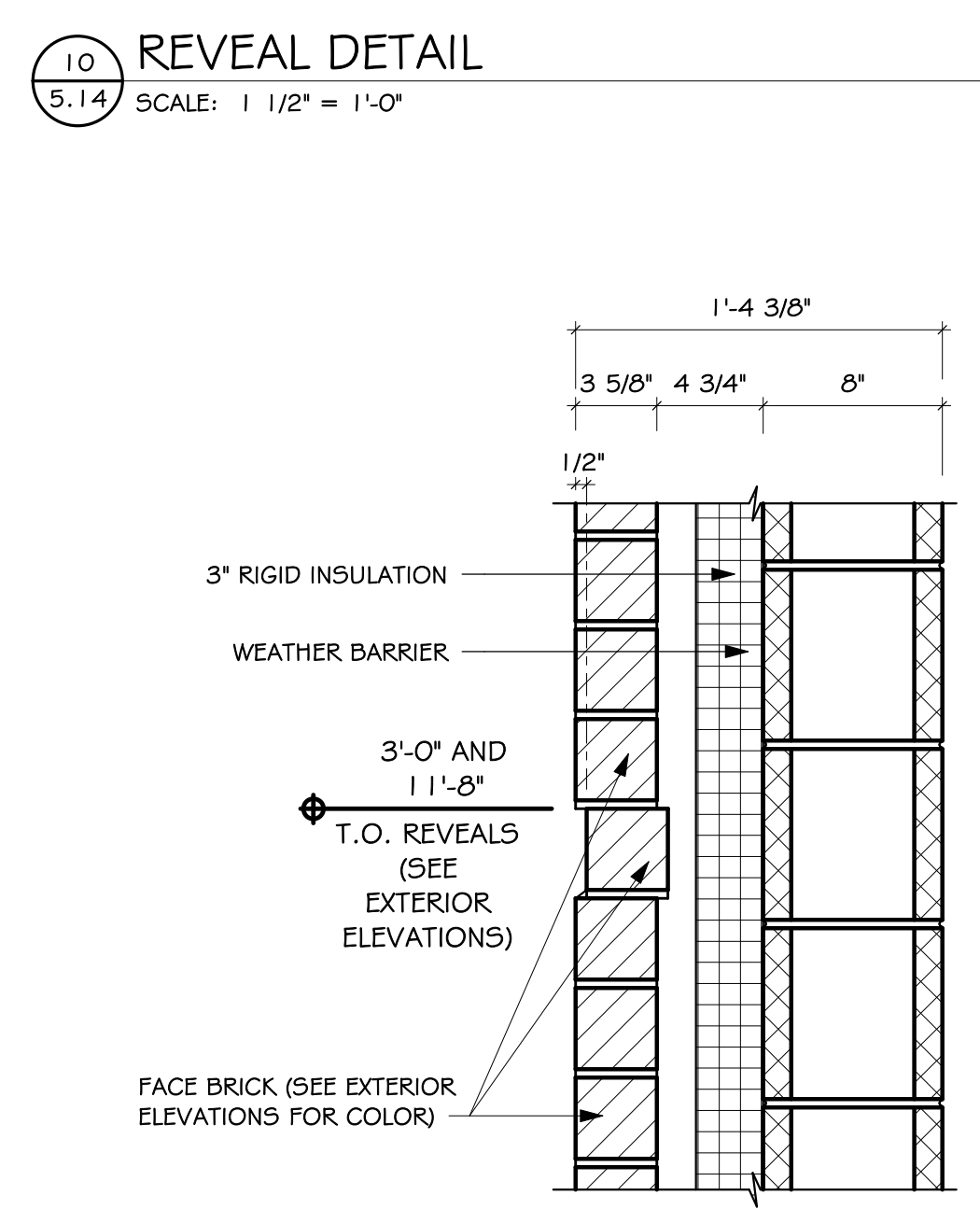
14 SILL - ALUMINUM STOREFRONT
5.14 SCALE: 1/2" = 1'-0"



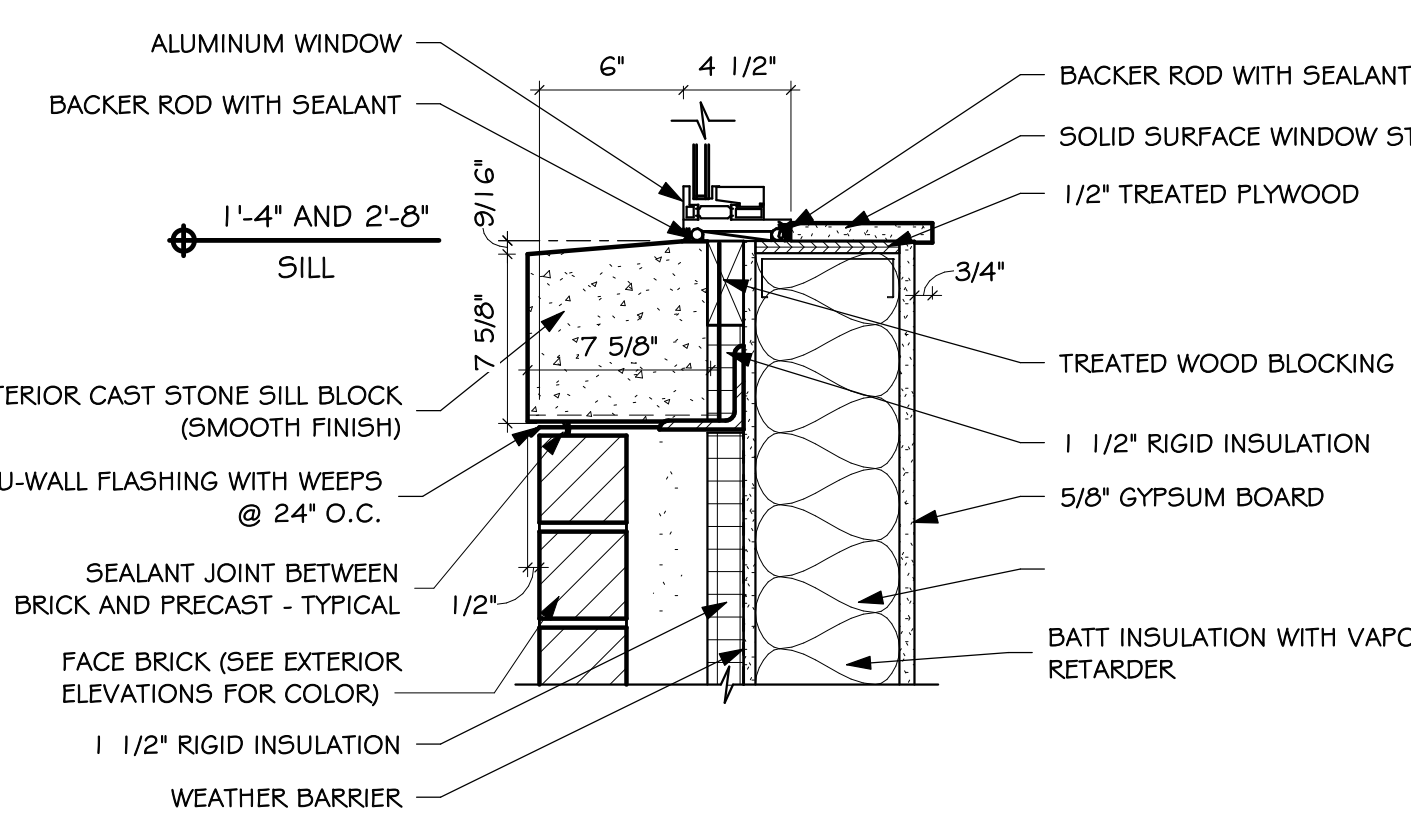
3 JAMB DETAIL
5.14 SCALE: 1/2" = 1'-0"



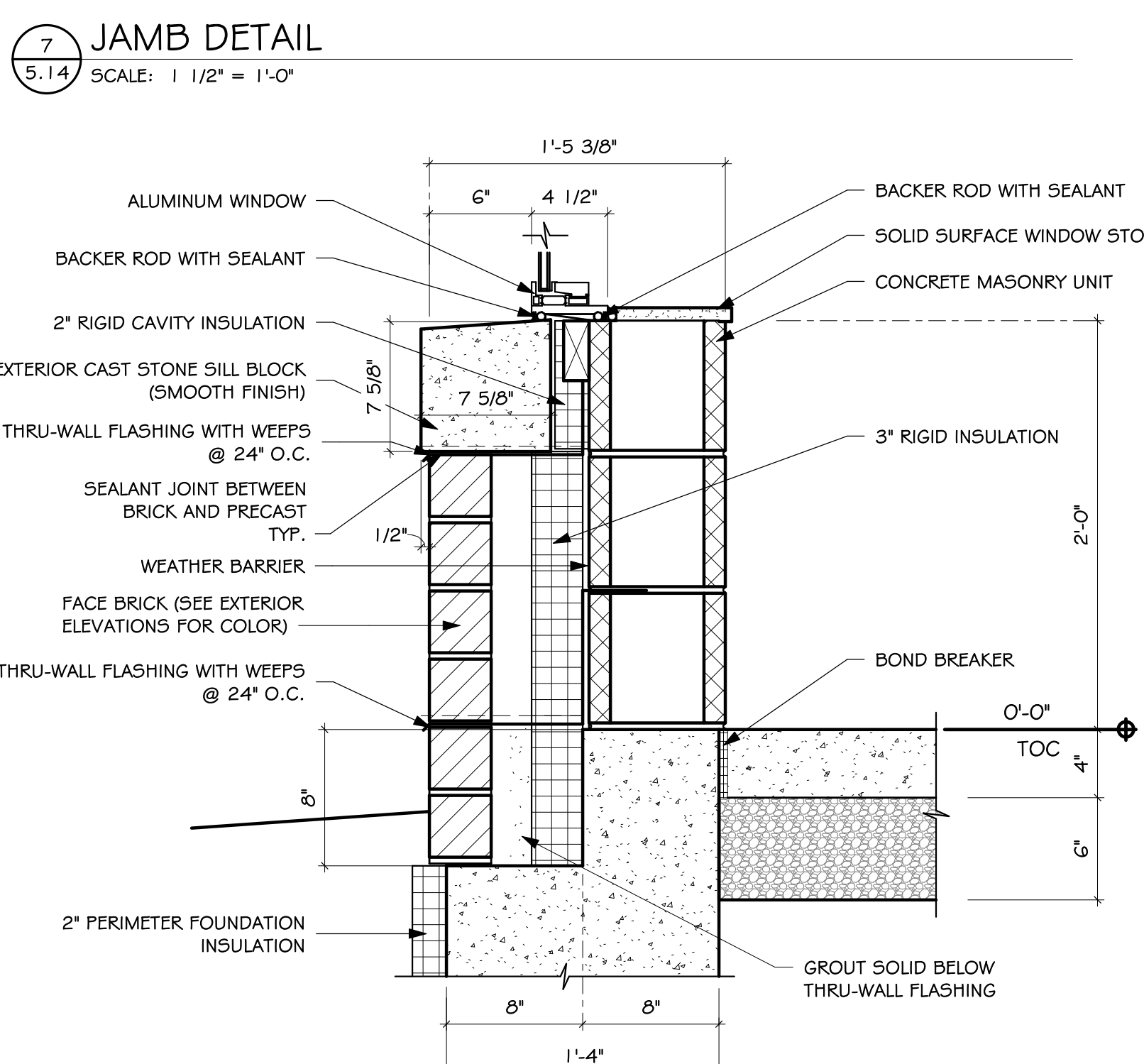
6 JAMB DETAIL
5.14 SCALE: 1/2" = 1'-0"



10 REVEAL DETAIL
5.14 SCALE: 1/2" = 1'-0"



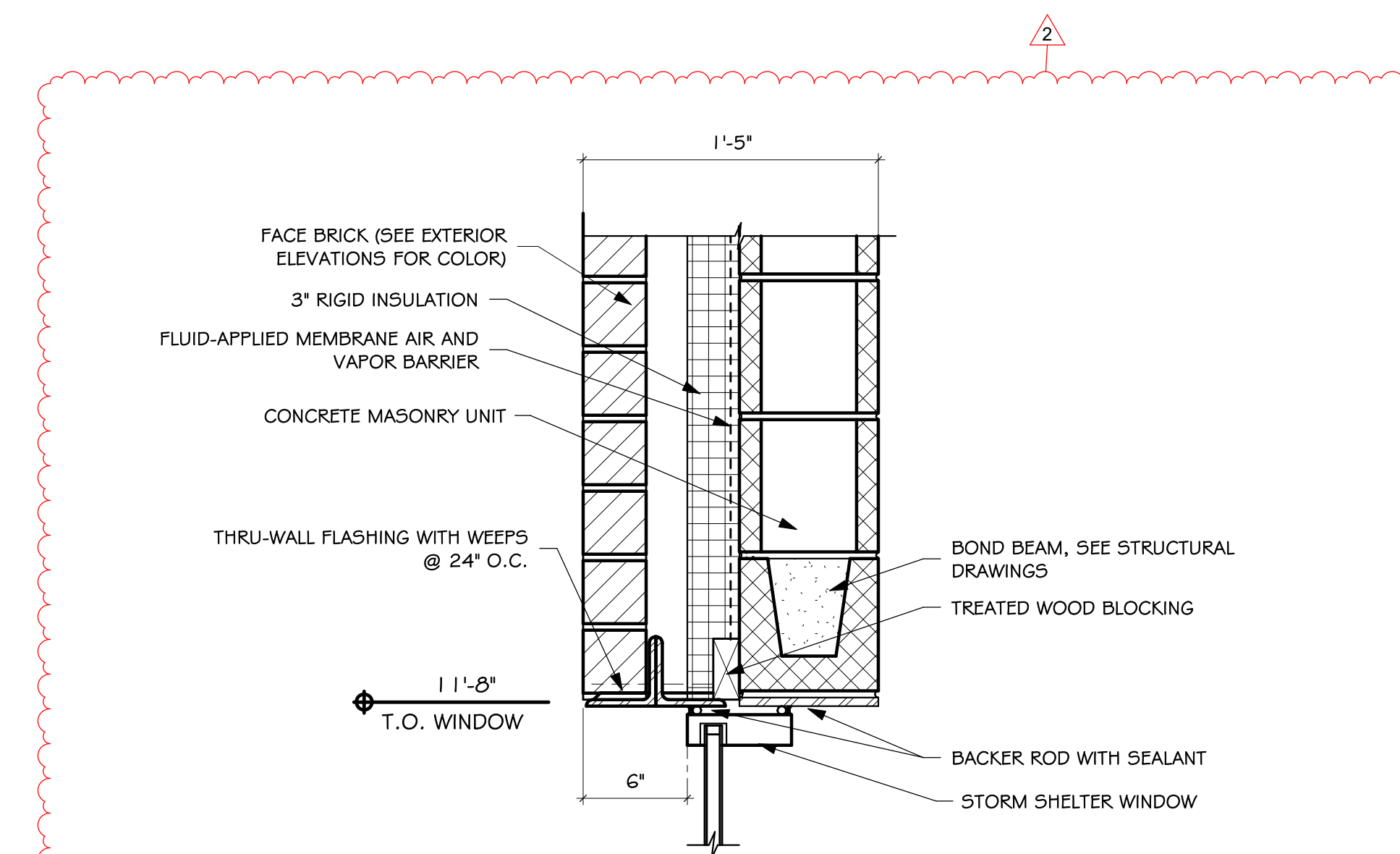
4 SILL DETAIL
5.14 SCALE: 1/2" = 1'-0"



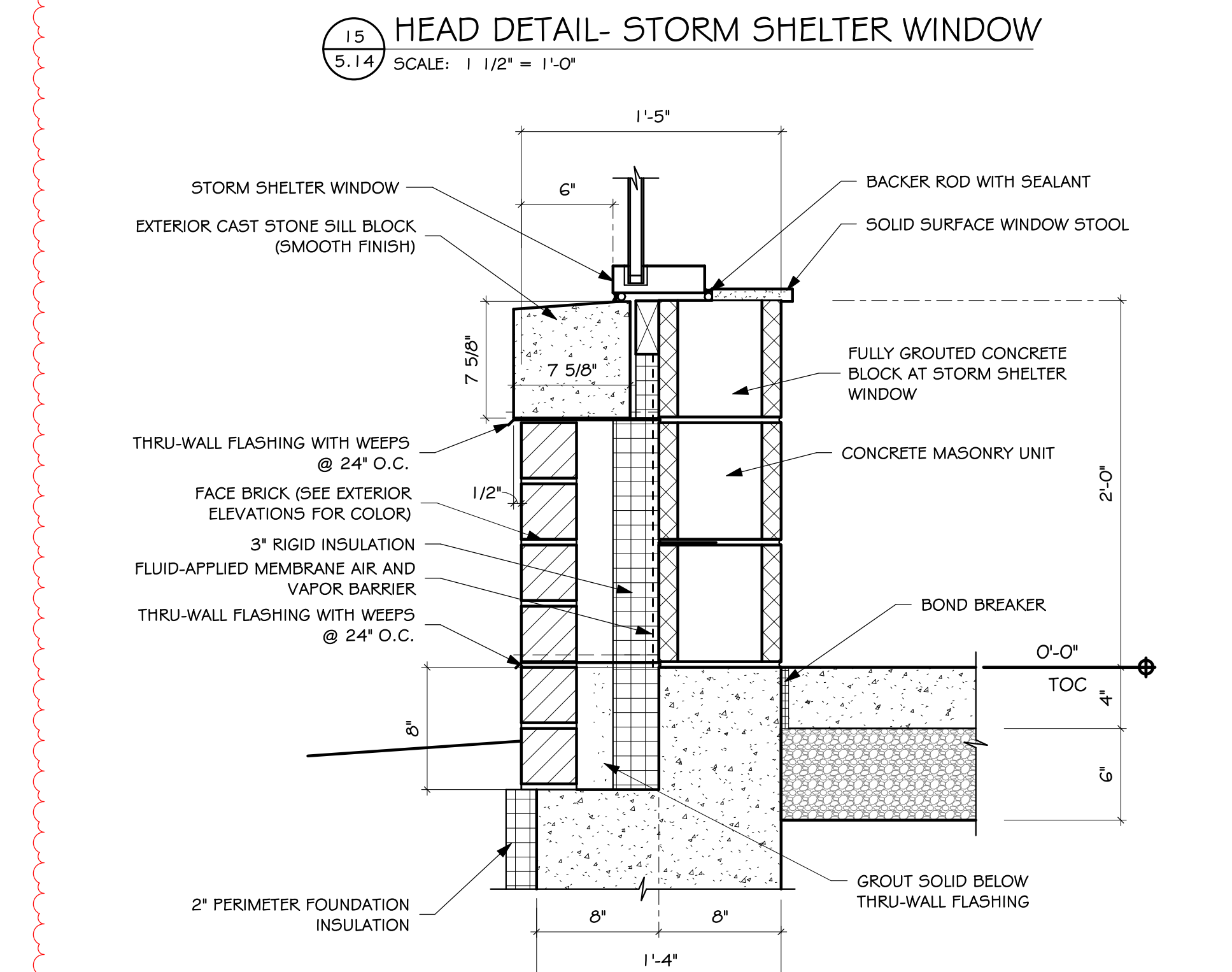
7 JAMB DETAIL
5.14 SCALE: 1/2" = 1'-0"



11 REVEAL DETAIL
5.14 SCALE: 1/2" = 1'-0"



15 HEAD DETAIL - STORM SHELTER WINDOW
5.14 SCALE: 1/2" = 1'-0"



16 SILL DETAIL - STORM SHELTER WINDOW
5.14 SCALE: 1/2" = 1'-0"

HARRISBURG ELEMENTARY SCHOOL #8
WINDOW AND STOREFRONT DETAILS

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revision	
drawn	SM checked SRJ

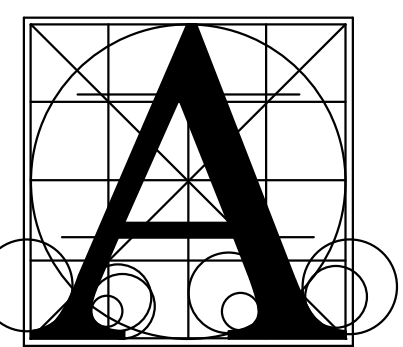
NO.	DATE	DESCRIPTION
2	2/16/2023	ADDENDUM #2

GENERAL NOTES - REFLECTED CEILING PLAN

- A. GENERAL CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS AT THE JOB SITE AND NOTIFY ARCHITECT OF DISCREPANCIES.
- B. ALL BULKHEAD AND SOFFITS SHALL EXTEND 2 INCHES BELOW ADJACENT CEILING HEIGHT UNLESS NOTED OTHERWISE.

REFLECTED CEILING PLAN LEGEND

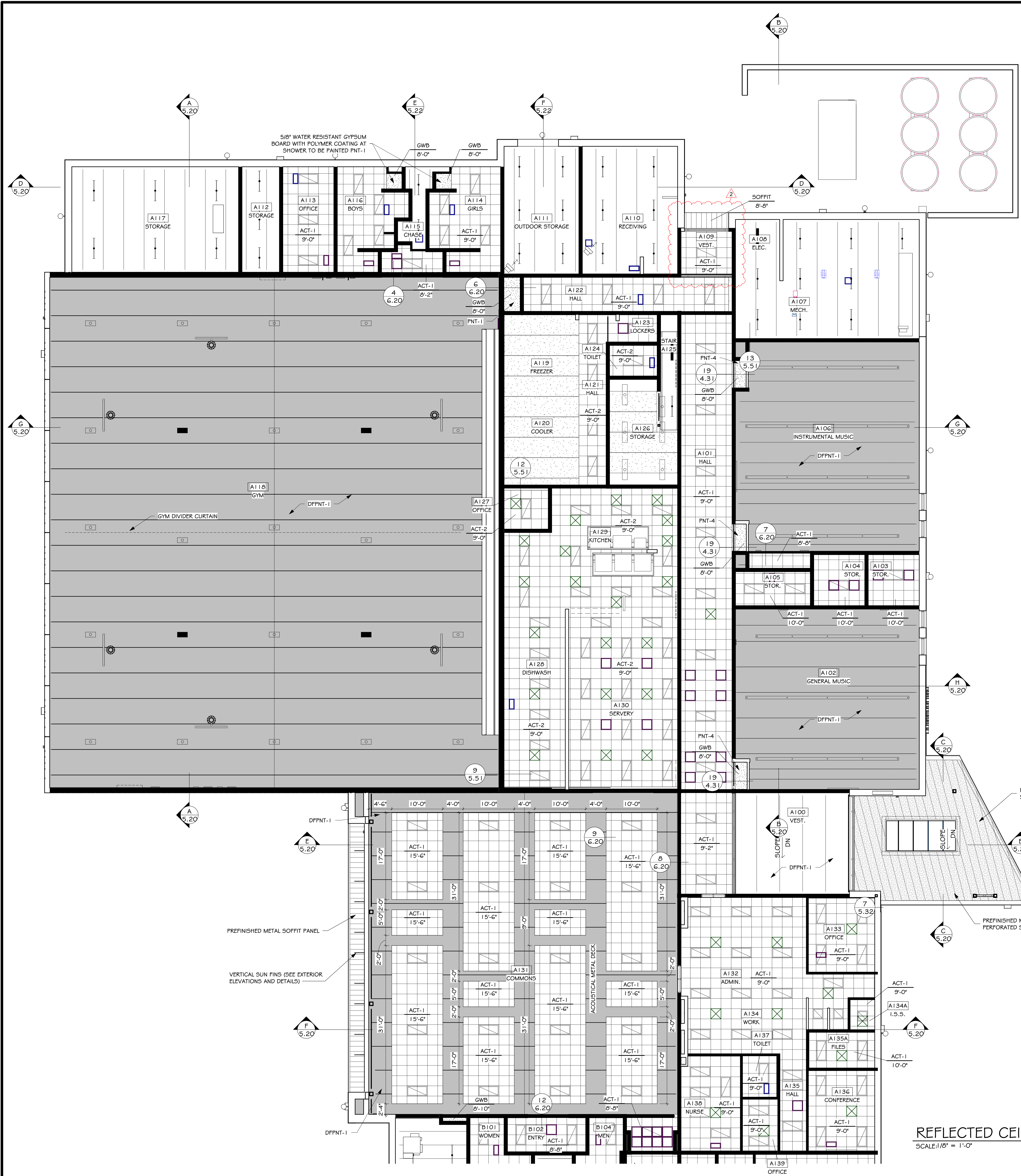
- RECESSED LIGHT
- SURFACE LIGHT
- RECESSED LIGHT
- SUPPLY GRILLE
- RETURN/EXHAUST GRILLE
- RADIANT HEATING PANEL
- WALL EXTENDED & SEALED TO STRUCTURE ABOVE TO PREVENT AIR/SOUND TRANSFER FROM ROOM TO ROOM
- WALL TO ABOVE CEILING
- SPEAKER



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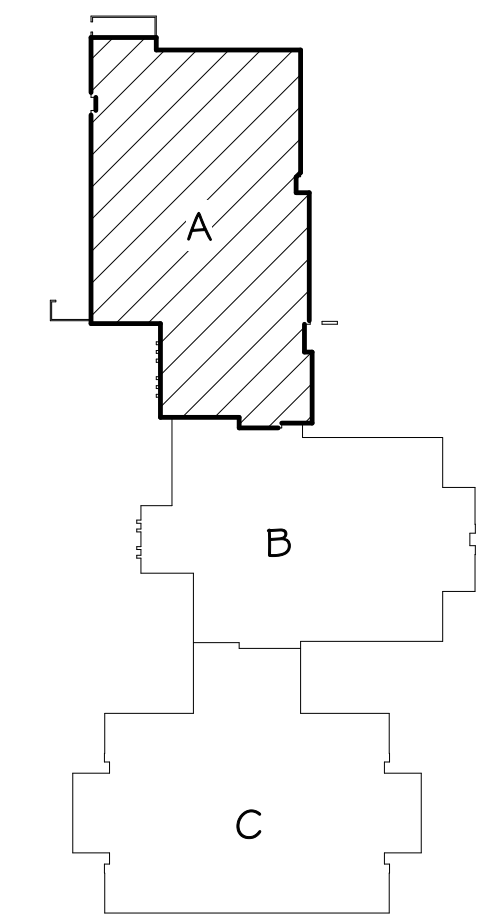
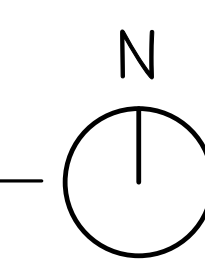
415 South Main Avenue
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REFLECTED CEILING PLAN - AREA A

REFLECTED CEILING PLAN - AREA A
SCALE: 1/8" = 1'-0"



KEYPLAN

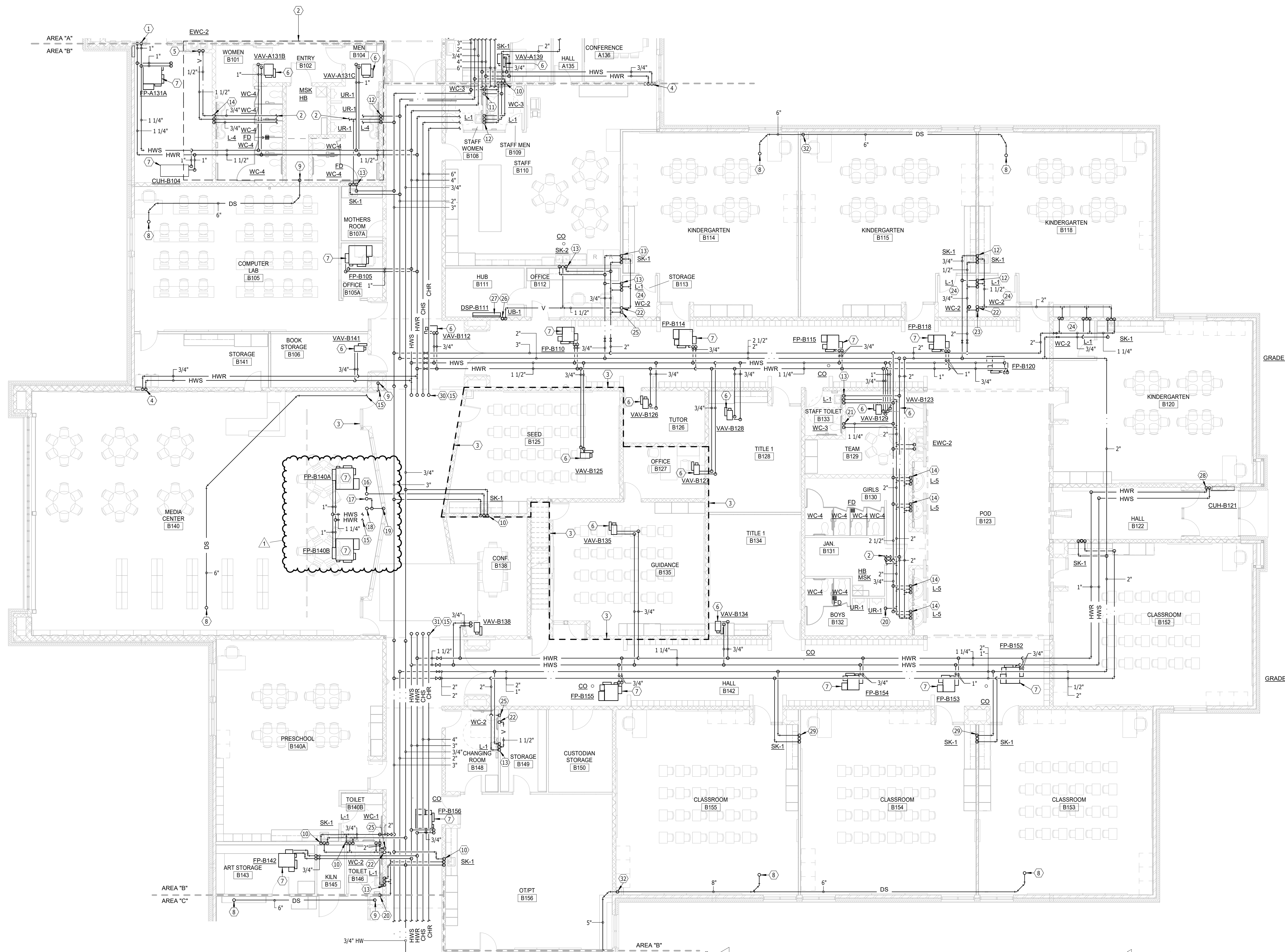
HARRISBURG ELEMENTARY SCHOOL #8
REFLECTED CEILING PLAN - AREA A

number	1011.3000.22
date	JANUARY 27, 2023
revision	
drawn	BJO checked SRJ

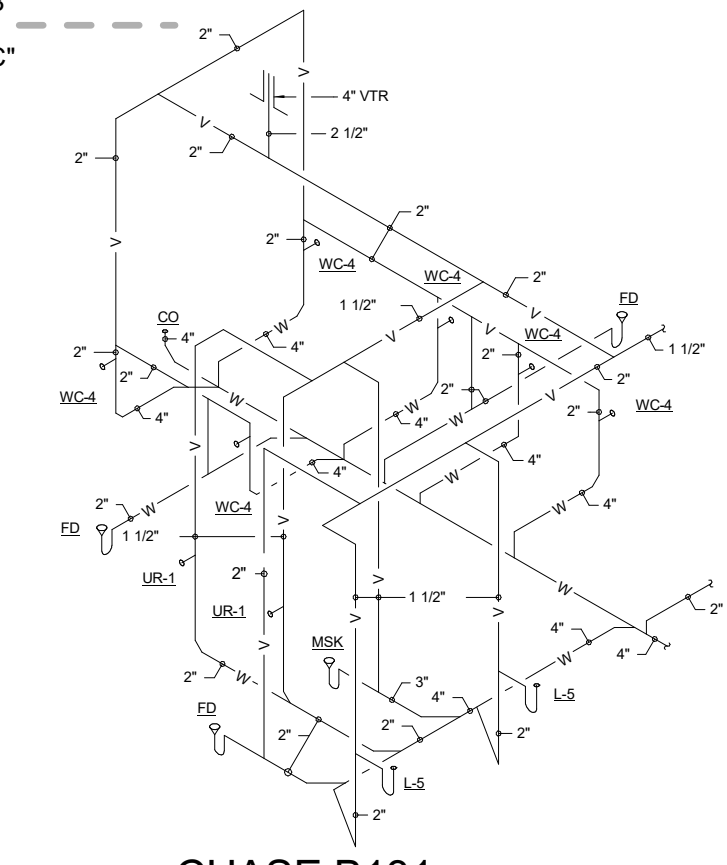
NO.	DATE	DESCRIPTION
2	2/16/2023	ADDENDUM #2

6.10

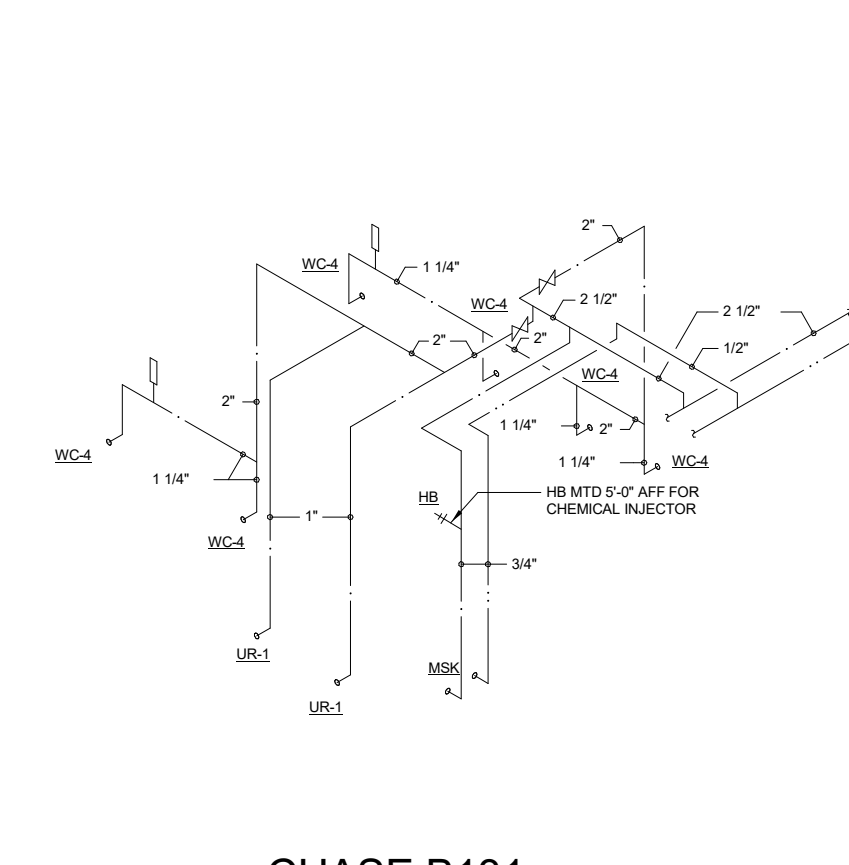
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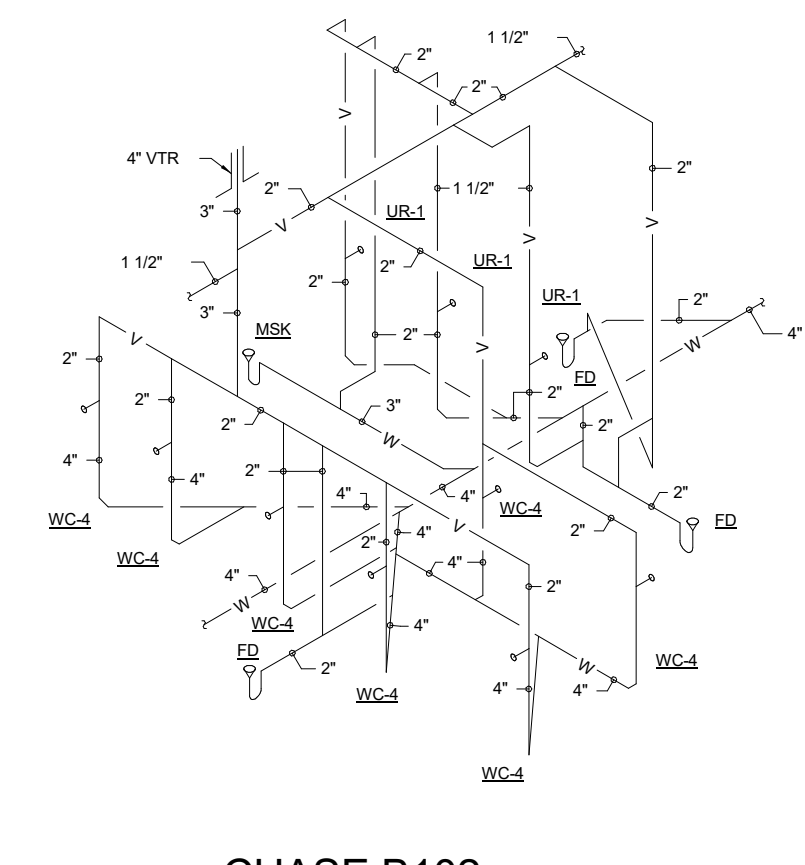
FLOOR PLAN AREA "B" - PLUMBING & HEATING
 SCALE 0 4 8 12 16



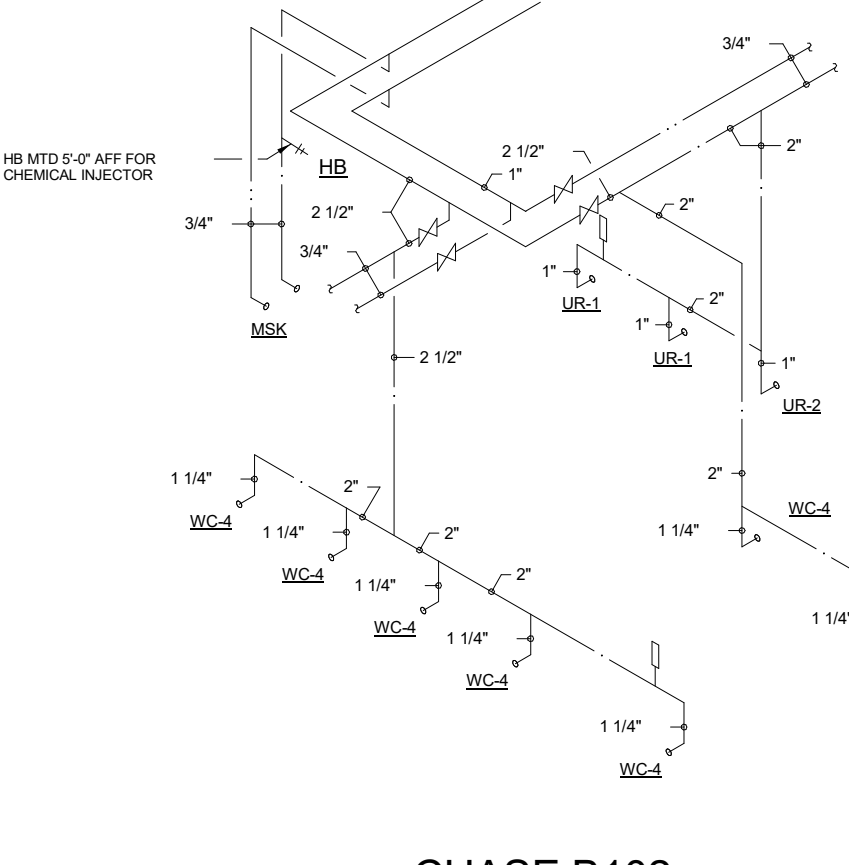
CHASE B131 - WASTE & VENT RISER
 NOTE: CHASES CUB & CHS SIMILAR



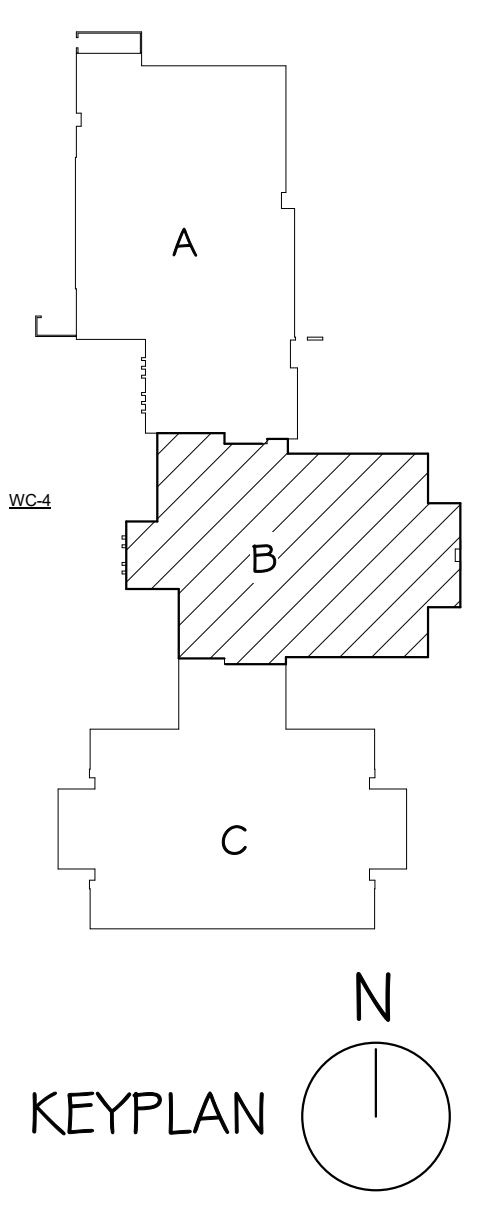
CHASE B131 - WATER RISER
 NOTE: CHASES CUB & CHS SIMILAR



CHASE B102 - WASTE & VENT RISER
 NOTE: CHASES CUB & CHS SIMILAR

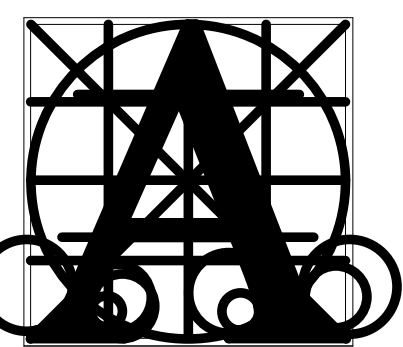


CHASE B102 - WATER RISER
 NOTE: CHASES CUB & CHS SIMILAR



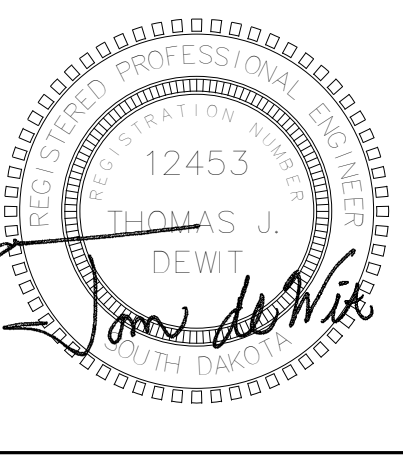
KEYPLAN

- GENERAL SHEET NOTES**
- THE CEILING SPACE AVAILABLE REQUIRES COORDINATION WITH OTHER TRADES. THE CONTRACTOR SHALL PROVIDE ALL OFFSETS AND RELOCATE AS REQUIRED TO COORDINATE THE INSTALLATION OF ALL MATERIALS AND EQUIPMENT WITH OTHER TRADES. ON DEMO DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN, ITEMS SHOWN BOLD ARE EXISTING TO BE REMOVED.
 - ON NEW CONSTRUCTION DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN, ITEMS SHOWN BOLD ARE NEW WORK.
- PLUMBING & HEATING NOTES**
- 1" HWR DN, 1" HWS DN TO INFLOOR HEAT ZONE MANIFOLD. SEE INFLOOR HEAT PLAN.
 - SEE BATHROOM GROUP RISER DETAILS FOR ADDITIONAL INFORMATION IN THIS AREA.
 - MECHANICAL PENETRATIONS INTO OR OUT OF A STORM SHELTER SHALL BE PROTECTED FROM INCOMING PROJECTILES BY CONCRETE Baffles OR OTHER APPROVED METHODS AND MATERIALS PER ICC-500. VERIFY AND COORDINATE Baffle OPENING DIMENSIONS WITH STRUCTURAL.
 - 3/4" HWR DN, 3/4" HWS DN TO INFLOOR HEAT ZONE MANIFOLD. SEE INFLOOR HEAT PLAN.
 - 1 1/2" V/2" W DN, 1/2" CW DN.
 - MECHANICAL SHUTOFF STYLE VAV. SEE SCHEDULE AND DETAIL.
 - HYDRONIC FAN POWERED VAV. SEE SCHEDULE AND DETAIL.
 - 6" DS UP TO 6" RD
 - 6" DS DN W/CO 24" AFF
 - 1/2" CW DN, 1 1/2" V/2" W DN, 1/2" HW DN
 - 2" CW DN, 2" V DN.
 - 3/4" HW DN, 1 1/2" V DN/2" W DN, 3/4" CW DN.
 - 1/2" HW DN, 1 1/2" V/2" W DN, 1/2" CW DN
 - 3/4" CW DN, 1 1/2" V DN/2" W DN, 3/4" CW DN.
 - SEE PENTHOUSE PLAN - AREA B - PLUMBING & HEATING FOR CONTINUATION.
 - 1 1/2" V UP.
 - 2" V UP.
 - 2" W UP TO FSK
 - 2" W DN W/CO 24" AFF
 - 2" V DN
 - 1 1/4" CW DN, 2" V DN.
 - 2" V UP/DN (4" VTR).
 - 2" CW DN
 - INSTALL ALL PLUMBING FIXTURE ROUGH-INS. FIXTURES TAGS ARE SHOWN FOR REFERENCE ONLY AND FIXTURE SHALL NOT BE PROVIDED IN THIS ROOM.
 - 1 1/4" CW DN
 - 2" W, 1 1/2" V/2" W DN.
 - ROUTE CONDENSATE LINE FROM DUCTLESS SPLIT UNIT TO BS.
 - 1" HWS & 1" HWR DN TO CUH
 - 1/2" HW DN, 1 1/2" V UP/2" W DN (4" VTR), 1/2" CW DN
 - 4" HWS UP, 4" HWR UP, 6" CHS UP, 6" CHR UP.
 - 4" HWS UP, 4" HWR UP, 4" CHS UP, 4" CHR UP.
 - 8" DS DN W/CO 24" AFF.



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HARRISBURG ELEMENTARY SCHOOL #8

FLOOR PLAN - AREA "B" - PLUMBING & HEATING

Project	HARRISBURG ELEMENTARY SCHOOL #8
Number	1011.3000.22
Date	JANUARY 27, 2023
Revision	
Drawn	Author checked Checker

DATE	DESCRIPTION
02-16-23	APPENDUM #2

8.25