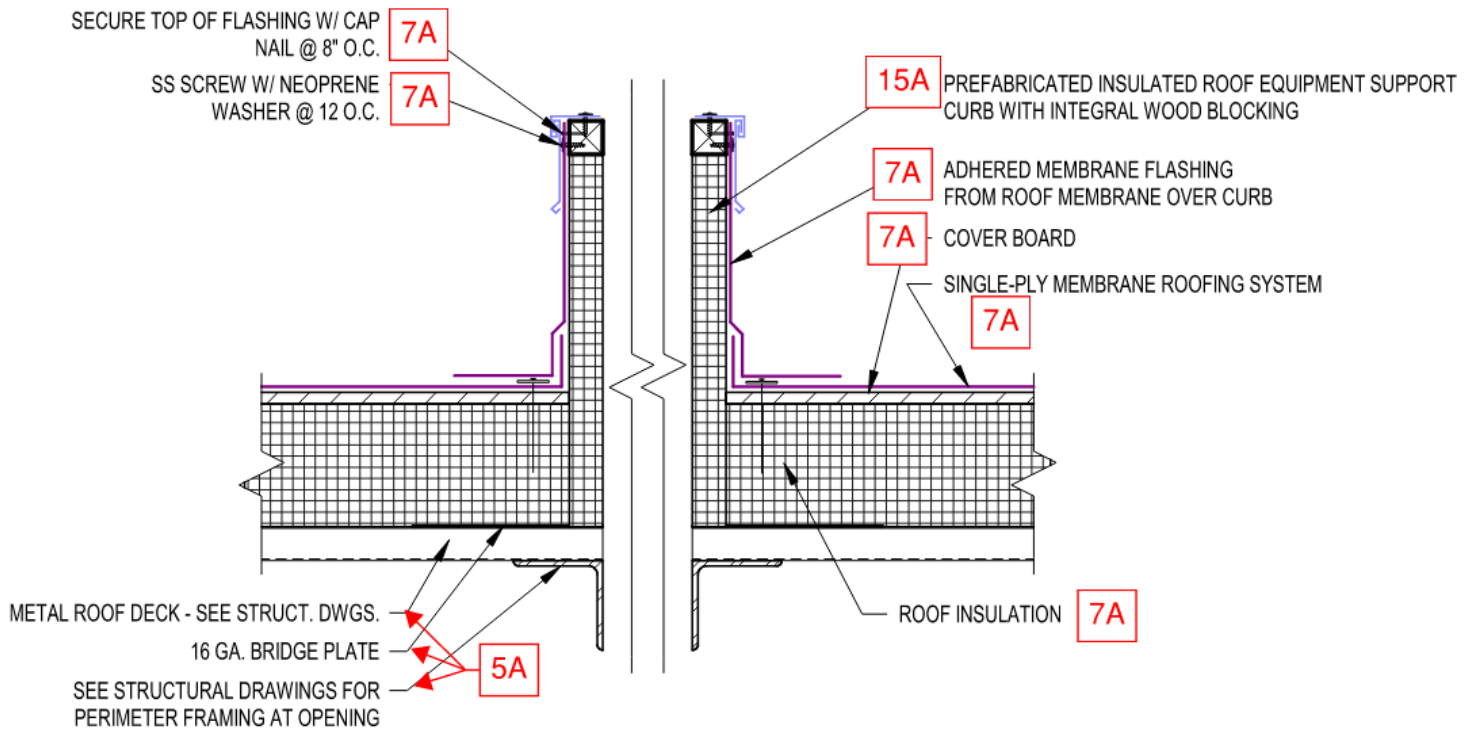


K. Sketch – CMSK011

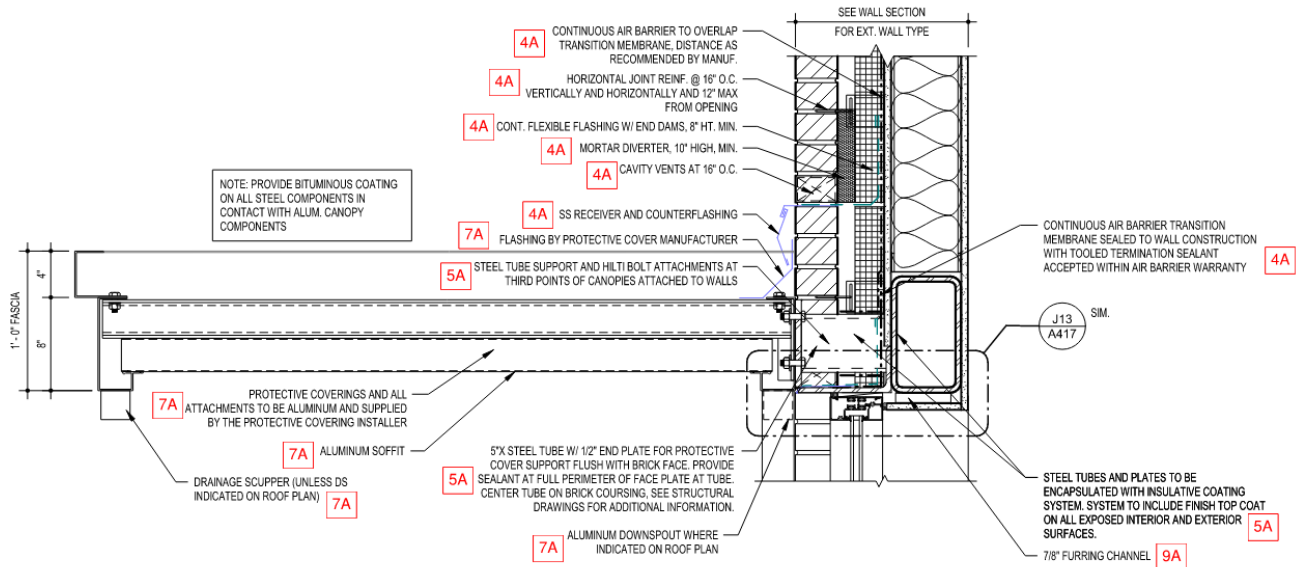


E10

TYPICAL CURB DETAIL

1 1/2" = 1'-0"

L. Sketch – CMSK012



F18

PROTECTIVE COVER DETAIL @ CANTILEVER

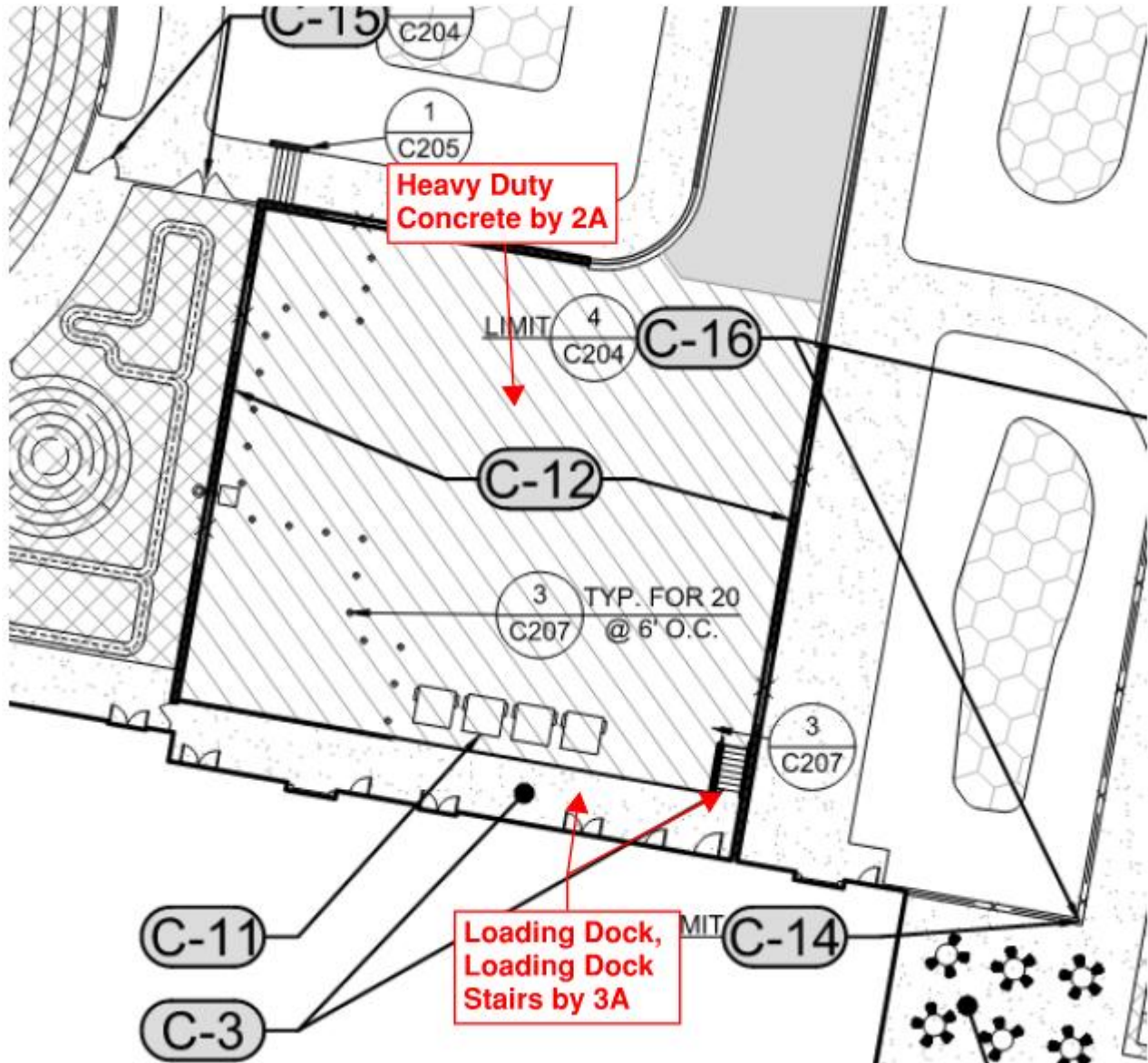
1 1/2" = 1'-0"

REMOVE EXISTING BUILDING SLAB FOUNDATION AND ASSOCIATED BASE MATERIALS. EXISTING BUILDING DEMOLITION TO SLAB PERFORMED BY OTHERS (NIC).

2A Contractor shall include demolition and removal of existing Building.

Labels on plan: D-1, D-2, D-3, D-4, D-5, LIMITS, ASPHALT, PARKING LOT, FENCE, WATER TANK, WATER LINE THAT FEEDS BUILDING IS ABOVE GROUND, FIBER OPTIC, NO SIGNAL DETECTED, UNLOCATABLE, LOD (VERTICAL), LOD, PLANter WALL, SEE SHEET C105, SEE SHEET C102, 24, 20', 314, 316, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400.

N. Sketch – CMSK014



SECTION 08 11 16 - ALUMINUM FLUSH DOORS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Aluminum flush doors ~~with aluminum~~ for installation in storefront frames.
- B. Provide these type doors ~~and frames~~ for scheduled exterior aluminum Type HG and flush door locations.

1.2 PERFORMANCE REQUIREMENTS

- A. General: Provide door assemblies that have been designed and fabricated to comply with specified performance requirements, as demonstrated by testing manufacturer's corresponding standard systems.
- ~~B. Air Infiltration: For a single door, test specimen shall be tested in accordance with ASTM E 283 at pressure differential of 6.27 psf. Door shall not exceed 0.18 cfm per square foot.~~
- ~~C.B. Uniform Structural Load: For a single door, test specimen shall be tested in accordance with ASTM E 330: Plus or minus 240 pounds per square foot.~~
- ~~D. Blast Test per ASTM F 2027-12, 6.91 psi, 41 psi-m sec: Minimal Hazard~~
- ~~E. Water Penetration Resistance per ASTM E 331: Pass~~
- ~~F.C. Thermal Transmission, Exterior Doors, U-Value, NFRC 102-2010: Maximum of 0.47 BTU/hr x sf x degrees F.~~
- ~~G.D. Indoor air quality testing per ASTM D 6670-01: GREENGUARD Environmental Institute Certified including GREENGUARD for Children and Schools Certification.~~
- ~~H.E. Compressive Strength, Foam Core, Nominal Value, ASTM D 1621: 79.9 psi.~~
- ~~I.F. Compressive Modulus, Foam Core, Nominal Value, ASTM D 1621: 370 psi.~~
- ~~J.G. Tensile Adhesion, Foam Core, Nominal Value, ASTM D 1623: 45.3 psi.~~
- ~~K.H. Thermal and Humid Aging, Nominal Value, 158 Degrees F and 100 Percent Humidity for 14 Days, ASTM D 2126: Minus 5.14 percent volume change.~~

1.3 SUBMITTALS

- A. Product Data: Submit manufacturer's product data, including description of materials, components, fabrication, finishes, and installation.
- B. Sustainability Submittals: Comply with Section 01 81 13; include material cost value.
 - 1. Submit a completed Green Building Materials Certification Form that lists permanently installed products and indicates material costs. Attach letter from manufacturer(s) describing product(s) contribution to LEED v4, including, but not limited to, the following:
 - 2. MR credit 3: Sourcing of Raw materials: Indicate percentage by weight of pre-consumer and post-consumer recycled content.
 - 3. MR credit 4: Material Ingredients: Submit a Material Ingredient Report.
 - 4. EQ credit 2: Low-Emitting Materials: Submit VOC emission testing certificate for metal framing.
- C. Shop Drawings: Submit manufacturer's shop drawings, including elevations, sections, and details, indicating dimensions, tolerances, materials, fabrication, doors, panels, framing, hardware schedule, finish, options, and accessories.

- D. Samples:
 - 1. Door: Submit manufacturer's sample of door showing face sheets, core, framing, finish, and accessories.
 - 2. Color: Submit manufacturer's samples of standard colors of doors and frames.
- E. Test Reports: Submit test reports from qualified independent testing agency indicating doors comply with specified performance requirements.
- F. Manufacturer's Project References: Submit list of successfully completed projects including project name and location, name of architect, and type and quantity of doors manufactured.
- G. Maintenance Manual: Submit manufacturer's maintenance and cleaning instructions for doors, including maintenance and operating instructions for hardware.
- H. Warranty: Submit manufacturer's standard warranty.

1.4 QUALITY ASSURANCE

- A. Manufacturer's Qualifications:
 - 1. Continuously engaged in manufacturing of doors of similar type to that specified, with a minimum of 10 years successful experience.
 - 2. Door and frame components from same manufacturer.
 - 3. Evidence of a compliant documented quality management system.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying opening door mark and manufacturer.
- B. Storage: Store materials in clean, dry area indoors in accordance with manufacturer's instructions.
- C. Handling: Protect materials and finish from damage during handling and installation.

1.6 WARRANTY

- A. Warrant doors, ~~frames, and factory hardware~~ against failure in materials and workmanship, including excessive deflection, faulty operation, ~~defects in hardware installation,~~ and deterioration of finish or construction in excess of normal weathering.
- B. Warranty Period: Ten years starting on date of shipment. In addition, a limited lifetime (while the door is in its specified application in its original installation) warranty covering: failure of corner joinery, core deterioration, delamination or bubbling of door skin.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Special-Lite, Inc. (Basis-of-Design)
- B. Kawneer.
- C. YKK AP America.

2.2 ALUMINUM FLUSH DOORS

- A. Basis-of-Design: Special-Lite, Inc.; Model SL-16 aluminum flush doors with aluminum frames.
- B. Construction:
 - 1. Door Thickness: 1-3/4 inches.

-
2. Stiles and Rails: Aluminum extrusions made from prime-equivalent billet that is produced from 100% reprocessed 6063-T6 alloy recovered from industrial processes, 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 integral to 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.
 11. Glue: Use of glue to bond sheet to core or extrusions is not acceptable
- C. Face Sheet:
1. Material: 0.062-inch thick aluminum.
 2. Texture: Smooth.
- D. Core:
1. Material: Poured-in-place polyurethane foam.
 2. Density: Minimum of 5 pounds per cubic foot.
 3. R-Value: Minimum of 9.
 4. ASTM E84: Class A.
- E. Cutouts: Manufacture doors with cutouts for required vision lites.
- F. Vision Lites: screw applied aluminum stops anodized to match the perimeter door rails; standard of manufacturer.
1. Size as indicated on Drawings.
 2. Glazing: 1-inch tempered insulating glass units with Low-e coating.
- G. Hardware:
1. Premachine doors in accordance with templates from specified hardware manufacturers and hardware schedule.
 2. Factory install hardware.
- 2.3 MATERIALS
- A. Sustainability Material Requirements:
1. Material Ingredients: Storefront products must have a publicly available material ingredient report that demonstrates chemical inventory to at least 1,000 ppm or 0.1%. Manufacturer and product name must be recognized as a participant.
 2. Material Ingredients: Storefront products must have verification of ingredient optimization through Cradle to Cradle certification label, Cradle to Cradle Material Health certificate, and/or third-party verified Declare label with Red List compliance disclosing 99.9% of material ingredients.
 3. Low-Emitting Materials: Metal frames must meet VOC emission testing requirements of California Department of Public Health (CDPH) Standard Method v1.2–2017.
- B. Aluminum Members:
1. Aluminum extrusions made from prime-equivalent billet that is produced from 100% reprocessed 6063-T6 alloy recovered from industrial processes: 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 non-corrosive metal.
 2. Compatibility: Compatible with items to be fastened.
 3. Exposed Fasteners: Screws with finish matching items to be fastened.

2.4 FABRICATION

- A. Sizes and Profiles: Required sizes for door and frame units, and profile requirements shall be as indicated on the Drawings.
- B. Coordination of Fabrication: Field measure before fabrication and show recorded measurements on shop drawings.
- C. Assembly:
 1. Complete cutting, fitting, forming, drilling, and grinding of metal before assembly.
 2. Remove burrs from cut edges.
- D. Welding: Welding of doors or frames is not acceptable.
- E. Fit:
 1. Maintain continuity of line and accurate relation of planes and angles.
 2. Secure attachments and support at mechanical joints with hairline fit at contacting members.

2.5 ~~ALUMINUM DOOR FRAMING SYSTEMS~~

- A. ~~Tubular Framing Thermally Broken for Exterior. Refer to aluminum storefront section.~~
 1. ~~Size and Type: As indicated on the Drawings.~~
 2. ~~Materials: Aluminum extrusions made from prime equivalent billet that is produced from 100% reprocessed 6063-T6 alloy recovered from industrial processes, 1/8-inch minimum wall thickness.~~
 3. ~~Thermal Strut: Fiber reinforced plastic, no other materials will be accepted.~~
 4. ~~Applied Door Stops: 0.625-inch high, with screws and weatherstripping. Doorstop shall incorporate pressure gasketing for weathering seal. Counterpunch fastener holes in door stop to preserve full metal thickness under fastener head.~~
 5. ~~Frame Members: Box type with 4 enclosed sides. Open back framing is not acceptable.~~
 6. ~~Caulking: Caulk joints before assembling frame members.~~
 7. ~~Joints:~~
 - a. ~~Secure joints with fasteners.~~
 - b. ~~Provide hairline butt joint appearance.~~
 8. ~~Field Fabrication: Field fabrication of framing using stick material is not acceptable.~~
 9. ~~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.~~
 10. ~~Hardware:~~
 - a. ~~Premachine and reinforce frame members for hardware in accordance with manufacturer's standards and hardware schedule.~~
 - b. ~~Factory install hardware.~~
 11. ~~Anchors:~~

- ~~a. Anchors appropriate for wall conditions to anchor framing to wall materials.~~
 - ~~b. Doorjamb and header mounting holes shall be spaced no more than 24 inches apart.~~
 - ~~c. Secure head and sill members of transom, side lites, and similar conditions.~~
12. ~~Side Lites (where indicated):~~
- ~~a. Factory preassemble side lites to greatest extent possible.~~
 - ~~b. Mark frame assemblies according to location.~~

2.62.5 HARDWARE

- A. Premachine doors in accordance with templates from specified hardware manufacturers and hardware schedule.
- B. Factory install hardware.
- C. Hardware Schedule: ~~As follows and as specified in Section 08 71 00.~~
 - ~~1. Hinges Basis of Design: Special Lite, Inc.; SL-11HD continuous hinges.~~
 - ~~2. Concealed adjustable bottom brush. Install door manufacturer's multidirectional adjustable bottom with double nylon brush weatherstripping. Door bottom must be concealed and adjust to accommodate irregular tapered floor conditions.~~
 - ~~3. Concealed adjustable meeting stile astragal. Install door manufacturer's adjustable astragal with double pile and weather seal weatherstripping.~~
- D. ~~Finish: Clear.~~

2.72.6 ALUMINUM FINISHES

- A. Frames: Clear anodized ~~matching performance of; refer to~~ Section 08 41 13.
- B. Door Faces: AAMA 2605; Architect reserves the ability to select any non-metallic or non-mica color within the Sherwin-Williams Fluropon 70%, Fluropon Classic II or Fluropon Metal Trends line of products, or custom color match of other coating manufacturers meeting performance standard.

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.

3.2 PREPARATION

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

3.3 INSTALLATION

- A. Install doors in accordance with manufacturer's instructions.
- B. Install doors plumb, level, square, true to line, and without warp or rack.
- ~~C. Anchor frames securely in place.~~
- ~~D.C.~~ Separate aluminum from other metal surfaces with bituminous coatings or other means approved by Architect.
- ~~E. Set thresholds in bed of mastic and backseal.~~
- ~~F.D.~~ Install exterior doors to be weathertight in closed position.

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

~~H.F.~~ Remove and replace damaged components that cannot be successfully repaired as determined by Architect.

3.4 ADJUSTING

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

3.5 CLEANING

A. Clean doors promptly after installation 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.

END OF SECTION 08 11 16

SECTION 08 33 13 - COILING COUNTER DOORS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Coiling counter doors and operating hardware.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's standard literature showing materials and details of construction and finish.
- B. Shop Drawings: Indicate rough and actual opening dimensions, anchorage methods, hardware locations, and installation details.
- C. Samples: Submit two slats, 4 inch long, illustrating shape, color and finish texture.
- D. Operation and Maintenance Data: Indicate modes of operation, lubrication requirements and frequency, and periodic adjustments required.

1.3 WARRANTY

- A. Warranty Period: Two years for defects in material and workmanship.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Manufacturer:
 - 1. Cornell Iron Works, Inc.
 - 2. The Cookson Company.
 - 3. Clopay Building Products.
 - 4. Overhead Door Company.
 - 5. McKeon Door Company.

2.2 PERFORMANCE REQUIREMENTS

- A. Operation Cycles: Door components and operators capable of operating for not less than 20,000. One operation cycle is complete when a door is opened from the closed position to the fully open position and returned to the closed position.

2.3 COILING COUNTER DOORS - ELEMENTARY SCHOOL DINING

- A. Coiling Counter Doors: Stainless steel slat curtain.
 - 1. Mounting: As indicated on Drawings.
 - 2. Nominal Slat Size: Nom. 1-1/2 inches wide.
 - 3. Slat Profile: Flat.
 - 4. Finish: Type 304 No. 4 stainless steel.
 - 5. Guides: Formed track; same material and finish unless otherwise indicated.
 - 6. Hood Enclosure: Stainless steel.
 - 7. Installed units cannot bear the manufacturer's logo/label on exposed surfaces of doors or hoods.
- B. Curtain Construction: Interlocking, single thickness slats.
 - 1. Slat Ends: Alternate slats fitted with end locks to act as wearing surface in guides and to prevent lateral movement.
 - 2. Curtain Bottom: Fitted with extruded stainless steel continuous channel or tubular shape to provide reinforcement and positive contact in closed position.

- 3. Slats: 22 gauge AISI type 304 #4 finish stainless steel with stainless steel angle bottom bar with lift handles and vinyl astragal.
 - C. Hood Enclosure: Internally reinforced to maintain rigidity and shape.
 - D. Tube Motor Shaft Assembly: Steel pipe capable of supporting curtain load with maximum deflection of 0.03 inches per foot of width.
 - E. Brackets: Stainless steel.
 - F. Motor - Electric Tube Motor Operator:
 - 1. Rated for a maximum of 5 cycles per hour, UL325 listed, rated as recommended by door manufacturer for size and type of door, 120 Volts, 1 Phase.
 - 2. Provide complete with electric tube motor, maintenance free electric brake, emergency manual crank hoist and control station(s).
 - 3. Motor shall be protected against overload with an auto-reset thermal sensing device.
 - 4. Operator shall be equipped with an emergency manual crank hoist assembly that safely cuts operator power when engaged. A disconnect chain shall not be required to engage or release the manual crank hoist.
 - 5. Electronic limit switch required.
 - G. Control Station - Surface mounted: "Open/Close/Stop" push buttons; NEMA 1.
 - H. Control Operation: Constant pressure to close.
 - 1. 2-wire, electric sensing edge seal extending full width of door bottom bar. Contact before door fully closes shall cause door to immediately stop downward travel and reverse direction to the fully opened position. Provide a self-coiling cable connection to control circuit.
- 2.4 COILING COUNTER DOORS - PDS DINING
- A. Coiling Counter Doors: Aluminum slat curtain.
 - 1. Mounting: As indicated on Drawings.
 - 2. Nominal Slat Size: Nom. 1-1/2 inches wide.
 - 3. Slat Profile: Flat.
 - 4. Finish: Baked-on polyester powder coat finish system.
 - a. Top coat to be polyester based structured wear resistant clear powder coat of 2.5-3.5 mils cured film thickness. ASTM D-3363 pencil hardness: 2H or better. Tested per ASTM B117.
 - b. Color as selected by Architect from manufacturer's color range, more than 180 colors.
 - 5. Guides: Extruded aluminum track.
 - 6. Hood Enclosure: Clear anodized aluminum.
 - 7. Installed units cannot bear the manufacturer's logo/label on exposed surfaces of doors or hoods.
 - B. Curtain Construction: Interlocking, single thickness slats.
 - 1. Slat Ends: Alternate slats fitted with end locks to act as wearing surface in guides and to prevent lateral movement.
 - 2. Curtain Bottom: Fitted with extruded continuous channel or tubular shape to provide reinforcement and positive contact in closed position.
 - 3. Slats: Interlocked flat-faced slats, 1-1/2 inches high by 1/2 inch deep, minimum 0.040 inch aluminum with extruded tubular aluminum bottom bar with continuous lift handle and vinyl astragal.
 - C. Hood Enclosure: Aluminum minimum 0.040 internally reinforced to maintain rigidity and shape; clear anodized.

D. Counterbalance Shaft Assembly:

1. Barrel: Steel pipe capable of supporting curtain load with maximum deflection of 0.03 inches per foot of width
2. Spring Balance: Oil-tempered, heat-treated steel helical torsion spring assembly designed for proper balance of door to ensure that maximum effort to operate will not exceed 25 lbs. Provide wheel for applying and adjusting spring torque.

E. Motor Operation:

1. Motor: Industrial duty gear head operator.
2. Rated for a maximum of 20 cycles per hour (not to be used for consecutive hours)
3. Totally enclosed non-ventilated gear head operator(s) rated as recommended by door manufacture for size and type of door,
4. Provide complete with electric motor and factory pre-wired motor control terminals, maintenance free solenoid actuated brake, provisions for auxiliary push-up operation and control station(s).
5. Motor shall be high starting torque, industrial type, protected against overload with an auto-reset thermal sensing device.
6. Primary speed reduction shall be heavy-duty, lubricated gears with mechanical braking to hold the door in any position.
7. Operator shall be equipped with a disconnect cable for auxiliary push-up operation.
8. Provide an integral Motor Mounted Interlock system to prevent damage to door and operator when mechanical door locking devices are provided.
9. Operator shall be capable of driving the door at a speed up to 9" per second or as recommended for door size.
10. Fully adjustable, driven linear screw type cam limit switch mechanism shall synchronize the operator with the door.

F. Control Station - Surface mounted: "Open/Close/Stop" push buttons; NEMA 1.

G. Control Operation:

1. Constant pressure to close.
2. 2-wire, electric sensing edge seal extending full width of door bottom bar. Contact before door fully closes shall cause door to immediately stop downward travel and reverse direction to the fully opened position. Provide a self-coiling cable connection to control circuit.

H. Locking: Masterkeyable cylinder lock operable from both sides of bottom bar; provide interlock switches.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that opening sizes, tolerances and conditions are acceptable.

3.2 INSTALLATION

- A. Install units in accordance with manufacturer's instructions.
- B. Use anchorage devices to securely fasten assembly to wall construction and building framing without distortion or stress.
- C. Securely and rigidly brace components suspended from structure. Secure guides to structural members only.
- D. Fit and align assembly including hardware; level and plumb, to provide smooth operation.
- E. Coordinate installation of sealants and backing materials at frame perimeter as specified in Section 07 92 00.

3.3 ADJUSTING

- A. Adjust operating assemblies for smooth and noiseless operation.

3.4 CLEANING

- A. Clean installed components.
- B. Remove labels and visible markings.

END OF SECTION 08 33 13

SECTION 27 50 00 – PUBLIC ADDRESS SYSTEM 2

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes

1. This section and associated drawings define a communications system for a public address system. The contractor shall provide all infrastructure, cable, IP amps, and speakers as defined to connect to owner provided PA system.

1.2 SYSTEM Description

A. Design Requirements

1. PA System

- a. The facility intercommunication system shall be a low voltage IP system that utilizes a fiber / copper cable infrastructure to distribute a user-defined input in a single manner.

B. Performance Requirements

1. Cable distribution from telecom closets to speakers in individual classrooms, spaces, and corridor zones.

C. Regulatory requirements

1. All work will conform to the National Electric Code and applicable local ordinances.
2. The communication system supplied shall be listed by Underwriter's Laboratories under UL Standard 1459. A copy of the UL listing card for the proposed system shall be included with the contractor's submittal.
3. System wiring and equipment installation shall be in accordance with good engineering practices as established by the EIA and the NEC. Wiring shall meet all state and local electrical codes. All wiring shall test free from all grounds and shorts.

1.3 SUBMITTALS

A. Comply with requirements of Division 0 and Division 1 - Submittals and as modified below.

B. Product Data: Submit manufacturer's product literature, technical specifications and similar information for the following items demonstrating compliance with the specified requirements.

1. Submit the shop drawings, product data and quality control submittals specified below at the same time as the package
2. Shop Drawings shall include the following items but are not limited to:
 - a. Wire types
 - b. System wiring diagrams showing all connections detailing wiring for power, signal, and control.
 - c. Drawings including all equipment locations.
 - d. Associated equipment specifications and cut sheets.
 - e. Product data including catalog cut sheets, manufacturer's default specifications, user operation guides and a bill of materials.
 - f. The contractor shall provide all necessary transient protection on the AC power feed and on all station lines leaving or entering the building. The contractor shall note in his system drawings, the type and location of these protection device as well as all wiring information.

C. Quality Control Submittal

1. Submit the name, address and telephone number of the nearest fully equipped service organization.
2. Submit a certificate of completion of installation and service training from the system manufacturer.
3. Certificates
 - a. Manufacturer Certification: Submit certification from manufacturer of products to be installed under this contract certifying that Installer is authorized by manufacturer to install specified products.
 - b. Installer Experience Listing: Submit list of at least 5 completed projects as specified below in "Quality Assurance – Qualifications – Installer."
4. Contract Closeout Submittal: Comply with requirements of Division 0, including submission of operating and maintenance instructions as item in "Operation and Maintenance Data" manual described in that Section.

1.4 AS-BUILTS

- A. All systems must have as-built drawings provided in electronic CAD and hardcopy format that clearly show all system components and wiring schemes.

1.5 QUALITY ASSURANCE

- A. All Work shall be installed in a first class, neat and workmanlike manner by skilled Technicians. The quality of the workmanship shall be subject to inspection and approval by authorized HCPS personnel. Any work found to be of inferior quality and/or workmanship shall be replaced and/or reworked until the approval of HCPS is obtained.

B. Qualifications

1. Installer
 - a. Must be qualified to cable, terminate, install and program the equipment specified in this Section, certified by manufacturer of products to be installed, and completed at least 5 installations of similar size, nature and complexity as specified for this project.
 - b. The contractor shall show satisfactory evidence, upon request, that the supplier maintains a fully equipped service organization capable of furnishing adequate inspection and service to the system. The supplier shall maintain at his facility the necessary spare parts in the proper proportion as recommended by the manufacturer to maintain and service the equipment being supplied.
 - c. The contractor is responsible for all cost associated with proper installation and termination of all system components.
 - d. All finished surfaces shall be chosen in consultation with the Owner, to assure that the Owner's aesthetic preferences have been adhered to.

1.6 WARRANTY

- A. Special Warranty: Provide manufacturer's system warranty against electrical or mechanical defects for 2 years from date of final acceptance.
1. System Assurance: The System Assurance shall cover the failure of the equipment to support the application which it was designed to support as well as additional application(s) introduced in the future by recognized standards or user forums
 2. System Certification: Upon successful completion of the installation and subsequent inspection, the Authority shall be provided with a numbered certificate, from the manufacturing company, registering the installation.

- B. A minimum fifteen (15) year Extended Product Warranty and Systems Assurance Warranty for this wiring system shall be provided by the Manufacturer and ensured by Contractor as follows:
 - 1. Extended Product Warranty: The Extended Product Warranty shall ensure against product and workmanship defects, that all approved cabling components exceed the specifications of TIA 568.2-D and Addenda for fiber link/channels and copper components, for a minimum fifteen (15) year period. The warranty shall apply to all passive components, including both cable and connecting hardware as a combined system (channel). Any claims cover replacement costs on any defective product, both material and labor. Extended warranties beyond fifteen (15) years will be considered.
 - 2. System Assurance: The System Assurance shall cover the failure of the wiring system to support the application which it was designed to support as well as additional application(s) introduced in the future by recognized standards or user forums that use the TIA 568.2-D component and link/channel specifications for cabling, for a fifteen (15) year period.
 - 3. System Certification: Upon successful completion of the installation and subsequent inspection, the Authority shall be provided with a numbered certificate, from the manufacturing company, registering the installation.
- C. Additionally, all manufacturer supplied products must be covered by three (3) year (parts only) limited warranty from the date of acceptance. The warranty period shall begin on the date of purchase by the owner/engineer.
- D. The contractor shall, at the owner's request, make available a service contract offering continuing factory authorized service of the system after the initial warranty period.

1.7 OPERATION AND MAINTENANCE MANUALS

- A. Installing contractor shall provide a minimum of two hardcopy and one electronic copy of all operation and maintenance manuals to the owner at the time of closeout.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Public Address System
 - 1. All components are to be compatible with owner provided ThreeSixty Galaxy Hybrid IP Public Address system.
- B. The Contractor for this work shall be held to have read all of the Bidding Requirements, the General Requirements, and Contract Proposal Forms; and in the execution of this work, he will be bound by all of the conditions and requirements therein.
- C. Any prior approval of an alternate system components does not automatically exempt the supplier from the intent of these specifications. Failure to comply with the operational and functional intent of these specifications may result in the total removal of the alternate system components at the expense of the contractor.
- D. Alternate equipment shall be considered if submitted alternate contains an original draft point by point comparison of the submitted product relative to the requirements of this specification, engineering drawings of the system, and includes manufacturer documented compatibility with owner provided PA system headend equipment.
- E. Proposed alternate equipment shall be accompanied by a letter from the manufacturer clearly stating that they have read the specifications, have listed differences between their product and the specified product, and commit to meet or exceed the specified requirements herein.

- F. Submissions failing to comply with the aforementioned requirement shall be deemed as non-compliant.

2.2 PRODUCTS

A. PRODUCT OVERVIEW

1. PA System Components

- a. Any and all IP endpoints (Speakers, IP amps, or any other IP addressable products shall NOT require any additional fees being assessed to the end user either one time or recurring for IP endpoint software maintenance. No exceptions.
- b. IP addressable endpoint products shall not require any product usage fees either one time or recurring for the life of the product, No exceptions.

2.3 EQUIPMENT

A. Speakers

- 1. Full IP speakers shall be provided in all individual classrooms, offices, and dedicated spaces. Speaker types provided shall include drop-in, cut-in, surface mount and horn type options.
 - a. ThreeSixty TQIP-40TB 2-way IP lay-in speaker amp interface with mic
- 2. 25/70V speakers shall be provided throughout all corridors and large group spaces including cafeteria, gymnasiums, and auditorium. Speaker types provided shall include drop-in, cut-in, surface mount and horn type options.
 - a. ThreeSixty TQS12 2X2 lay-in speaker assembly 5oz 5W 8 Ohm white
 - b. ThreeSixty IP-AMP1 SIP/Multi-cast interface
 - c. ThreeSixty TQS6IP wall mount speaker, backbox, grill with IP AMP-1
 - d. Atlas GA-30T paging horn loudspeaker
- 3. Provide all necessary mounting hardware including tile bridges, back cans, surface mount boxes, etc. to properly support speaker installation.

B. UTP Copper Cabling Components for intercom system

- 1. Requirements: Complete balanced, twisted-pair compliant with current Category 6 provisions under TIA/EIA 568B Telecommunications Cabling Standard, including but not limited to:
 - a. "Component compliant" components certified to meet all requirements of TIA/EIA-568-B.2 "Balanced Twisted Pair Cabling Components."
 - b. After assembly into completed cabling channel, all components meet performance requirements as specified in TIA/EIA-568-B.1 and B.2, meet cable manufacturer's and outlet manufacturer's performance requirements and are performance certified for Category 6 as a complete channel system.
 - c. Shall meet specified physical and transmission characteristics requirements.
 - d. Exceed minimum performance requirements of TIA/EIA-568-B. Cabling solutions not demonstrating performance greater than minimum requirements are not acceptable.
- 2. Physical Characteristics
 - a. 100 Ohm Category 6 Unshielded Twisted Pair Cable (UTP)
 - b. Meeting requirements of ANSI/ICEA S-80-576. For cables not specified in "Approved Components" paragraph, all 4 pairs insulated with F.E.P. providing maximum 0.023-inch diameter of insulated conductor.

- c. Cable shall be unique in color from voice and other data cabling. (see section 27 12 50). Intercom cabling shall be White in color.
 - d. Acceptable Cable
 - 1) Berk-Tek 10033817(PVC)-Cat 6
 - 2) Or Approved Equivalent
 - e. Consists of four 22 - 26 AWG twisted pairs.
 - f. Cable shall be plenum or non-plenum as required by code.
 - g. Color coding of pairs:
 - 1) Pair 1.....W-BL; BL
 - 2) Pair 2.....W-O; O
 - 3) Pair 3.....W-G; G
 - 4) Pair 4.....W-BR; BR
 - h. Overall diameter not exceeding 0.250 inches for a single cable.
 - i. Ultimate Breaking Strength (ASTM D 4565): 400 N minimum
 - j. Withstands 1-inch bend radius at -20 degrees Celsius without jacket or insulation cracking.
- 3. Third-party verified to meet TIA/EIA Category 6 requirements. All completed cabling channels fully backwards compatible with requirements of Category 5 and 5e cabling systems.
- 4. Transmission Characteristics
 - a. DC resistance of any conductor not exceeding 9.38 Ohms per 100m max. at 20 degrees Celsius measured in accordance with ASTM D4566.
 - b. Mutual capacitance of any pair at 1 kHz for 100 m. of cable not exceeding 5.6nF.
 - c. DC resistance unbalance between any two conductor of any pair not exceeding 5 percent when measured at or corrected to 20 degrees Celsius in accordance with ASTM D 4566.
 - d. Capacitance unbalance to ground at 1 kHz of any pair not exceeding 330 pF per 100 m.
 - e. Delay skew not exceeding 25 ns at 100 MHz.
 - f. Propagation delay of any pair at 10 MHz not exceeding 5.7 ns/m.
 - g. Maximum Attenuation of any pair not exceeding values given in TIA/EIA-568-B.2-1.
 - h. NEXT coupling loss, PSNEXT loss, ELFEXT loss, PS-ELFEXT loss and Return Loss meeting requirements of TIA/EIA-568-B.2-1.
- C. Fiber Optic Cable
 - 1. System will utilize single mode backbone fiber pairs provided under 27 12 50.
- D. Patch Panels for Intercom Cabling
 - 1. Shall meet requirements for category 6 performance requirements.
 - 2. Panels shall contain the number of termination ports required to terminate all jacks in service area, plus 20% spare capacity.
 - 3. Acceptable units:
 - a. Hubbell Premise Cat 6 24/48 port Patch Panels.
 - b. Or approved equivalent.
- E. Patch Cables for Intercom Cabling
 - 1. Factory terminated and tested UTP patch cables at equipment cross-connect meeting requirements of ANSI/TIA/EIA-568-B for patch cable testing.
 - 2. Meet all requirements of ANSI/TIA/EIA-568-B.2 standard.
 - 3. Contact plating of minimum of 50 micro inches of gold in contact area over 50 micro inch of nickel, compliant with FCC part 68.5.
 - 4. Use 8-position connector, unkeyed.

5. Modular connector maintaining paired construction of cable to facilitate minimum untwisting of wires.
6. Factory assembled and constructed to 100 ohm, 4-pair UTP per ANSI/TIA/EIA-568-B for minimum, Category 6 compliance.
7. Performance marking indelibly labeled on jacket by manufacturer.
8. Accepts color-coded labels to comply with TIA/EIA-606 labeling requirements at both ends.
9. Manufactured by ISO 9001 Company.
10. Patch cords shall be White in color and without boots.
11. Patch cord length shall be sized based on equipment locations .

F. Horizontal Cable Management

- a. Horizontal wire management panels are required for patch panels in racks. There shall be one wire management panel above the first patch panel in each rack, then one wire management panel below each consecutive patch panel.
- b. 24 port Patch Panel Wire Management: Ortronics OR-60400131 or approved equivalent.
- c. 48 port Patch Panel Wire Management: Ortronics OR-808004410 or approved equivalent.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verification of Conditions: Examine conditions under which telecommunications cabling and equipment and related components are to be installed in coordination with Installer of materials and components specified in this section and notify affected prime contractors and design consultant in writing of any conditions detrimental to proper and timely installation. Do not proceed with installation until unsatisfactory conditions have been corrected to ensure a safe and timely installation.
1. When Installer confirms conditions as acceptable to ensure proper and timely installation and to ensure requirements for applicable warranty or guarantee can be satisfied, submit to design consultant written confirmation from applicable Installer. Failure to submit written confirmation and subsequent installation will be assumed to indicate conditions are acceptable to Installer.
 2. Visit Site to identify and become familiar with existing field conditions and specific requirements of each Site.
 3. Verify all dimensions in field and confirm condition of existing hardware to be utilized.
 4. Confirm space requirements and physical confines of all work areas to ensure that all materials can be installed in indicated spaces.
 5. Confirm all device locations and cable pathways and advise Design consultant in writing of any discrepancies or issues in Design described in Contract Documents.

3.2 PREPARATION

- A. Protection: Provide adequate protection of equipment and hardware before and after installation.
- B. Existing Communications Services: Ensure all telecommunications systems (voice, video and data) remain operational throughout the project.
1. Identify any additional intercom equipment, devices, and wiring at the site not shown on T-Drawings and interfering with installation of specified equipment.
 2. Remove all accessible portions of abandoned communications cabling per NEC 800.52. Tag all communications cabling not terminated at both ends but retained for future use.

3.3 INSTALLATION

- A. Provide and install all components necessary including (but is not limited to) cable, connectors, patch panels, speakers, amps, etc. for connection to owner provided PA headend system.
- B. LAN and Telephone Horizontal Cabling
 - 1. Pull cable into conduits, or place into raceway or cable tray as specified. Do not exceed 25 Lb pull force per cable. Use appropriate lubricants as required to reduce pulling friction.
 - 2. All exposed wiring shall be installed in surface raceway.
 - 3. All wiring above ceilings or below access floors shall be installed in cable tray or open-top cable hangers.
 - 4. Cable slack and service loops shall be stored properly above the ceiling or under the access floor. A "figure-eight" service loop is recommended for Category 6 cabling to reduce EMI coupling.
 - 5. Pathway fill ratio in conduit, tray, raceway, etc. shall not exceed 40% of pathway cross-sectional area.
 - 6. Installed cable bend radius shall be greater than 4X cable diameter. Avoid kinking or twisting the cable during installation.
 - 7. Do not utilize permanent cable ties for securing cables, and do not use staples or clamps to anchor cables. Velcro straps are recommended.
 - 8. Communications cabling that must cross power cables or conduit shall cross at a 90-degree angle, and shall not make physical contact.
 - 9. Length of each horizontal cable run from the TR to the wall outlet shall not exceed 90 meters. Verify all horizontal cable run lengths prior to installation. Re-distribute horizontal cabling to maintain distance requirements and maintain pathway route accessibility.
 - 10. Leave sufficient slack for 90 degree sweeps at all vertical drops.
 - 11. Do not install cable in wet areas, or in proximity to hot water pipes or boilers.
 - 12. Cable ends for termination shall be clean and free from crush marks, cuts, or kinks left from pulling operations. Installed cable jackets shall have no abrasions with exposed conductor insulation or bare copper 'shiners'. The installer is responsible to replace damaged cables.
 - 13. Horizontal cables extending from mounted jacks or panels shall maintain a minimum bend radius of at least 4 times the cable diameter.
 - 14. Firestop all cable penetrations through fire-rated barriers per local codes.
 - 15. Cable runs shall be continuous and unbroken from end to end. Splicing of any Telephone or LAN distribution cable is prohibited. Horizontal cabling for LAN and telephone shall end in rack-mounted patch panels.
 - 16. Secure all horizontal cables within ceiling cavities to permanent building structure. Do not support cables from ceiling grid T-Bars, grid wire supports or bridle rings. Do not allow cables to touch ceiling grid.
 - 17. Loosely bundle all cables and support from structure at unequal intervals from 5 to 6 feet with spring steel fasteners and cable clip rated for use with high performance cables where cable tray or other support structure has not been provided as indicated on Drawings. All mounting clips shall be seismic type as per BOCA.
 - 18. Do not violate manufacturer's recommended loadings. Leave 20% capacity for future use of pathway.
 - 19. Install cables in EMT conduit in all unfinished, exposed areas as shown in Design consultant and Architectural roof plans and/or T-Drawings, unless alternate pathways are noted.
 - 20. Provide a 10-foot service loop in all fiber optical cables to permit future cable splice and repair at all building entrance points and termination points.
 - 21. Cable bundles shall be neatly routed with a single service loop to provide 10 feet of slack at the cross-connect end and as noted in the T-drawings. Cable bundles shall be secured using only black Velcro cable wraps.

22. 10 feet of service loop shall be provided in the ceiling at each workstation. Contractor shall not secure service loop in coils, but route in such a manner as to minimize EMI.
23. Communications outlets shall be located to be no more than 6 feet from an electrical outlet at the workstation. Coordinate with electrical trade in the field.

C. Jack Terminations

1. Terminate jacks according to manufacturer's instructions.
2. To maximize transmission performance, maintain wiring pair twists as close as possible to the point of termination.
3. The length of wiring pair un-twist in each termination shall be less than 0.5 inches (13 mm).
4. Jacks shall be properly mounted in plates, frames, or housings with stuffer cap fully installed over IDC contacts.
5. Horizontal cables extending from mounted jacks shall maintain a minimum bend radius of at least 4 times the cable diameter.
6. Cable terminations shall have no tensile or bending strain on IDC contacts after assembly of faceplate or housing to the wall outlet.
7. Determine allowable cable proximity to other electrical power sources of 480 Volts or less using TIA/EIA-569A "Cabling Pathway Standard" for UTP cable separations from sources of EMI.

D. LABELING

1. Permanently identify all system components following TIA/EIA-606A "Administration Standard for Commercial Telecommunications Infrastructure" with identification format:
 - a. Identification: Provide permanent identification labels for outlets, faceplates, patch panels, access panels and entrance facilities.
 - b. Each individual cable and patch cord shall be labeled on both ends of cable terminations regardless of cable intended use. Labels must be machine printed with permanent black ink on laminated white label material. Contractors must check with appropriate district personnel for appropriate labeling scheme. The intended format and labeling material must be approved by district Technology Department before labeling begins.
 - c. Refer to T-Drawings for naming conventions.

E. TESTING

1. Upon completion of work, all parts of the telecommunications installation shall be tested by the Telecommunications Contractor and demonstrated free of any defects. Preliminary testing will be permitted but shall not be accepted in lieu of obtaining final test results. Final test results shall be accomplished by the use of proper test equipment for the system being tested.
2. Re-terminate and re-test any cables or pairs of cables failing end-to-end testing requirements. Replace any faulty cables/pairs or termination devices. Remove all defective cables completely from pathways.
3. Category 6 UTP Cabling
 - a. Cables are tested in the fully terminated condition, as part of the installed horizontal cabling system. Jacks in the wall outlet, and panels in the TR are to be terminated complete, with faceplates assembled complete and properly mounted.
 - b. Each link or channel in the horizontal cabling system shall be identified and tested individually, using an industry standard level III tester with correct settings.
 - c. A "PASS" indication shall be obtained for each channel or link, using a level III tester. The installer is responsible to correct any test failures.

3.4 ACCEPTANCE

- A. Contractors work shall be considered complete after the following conditions have been met:

1. Cable and end device installation is complete, and all cable runs have been tested and documented to be installed according to specifications and drawings.
2. All punch list items have been reconciled.
3. All disturbed ceiling panels, firestopping materials, covers, etc. have been properly reinstalled.
4. All materials and trash have been removed from the site.
5. The Manufacturers Extended Warranty Certificate has been given to the Owner.

END OF SECTION 27 50 00

ATTACHMENT B

CODE REVIEW			SYMBOL KEY		
PROJECT NAME AND LOCATION NAME: NEW COMBINATION HARFORD ACADEMY AND ELEMENTARY SCHOOL STREET ADDRESS: 1605 EVA MAR BOULEVARD COUNTY: HARFORD CITY, STATE: BEL AIR, MARYLAND PROJECT DESCRIPTION: NEW SPECIAL NEEDS SCHOOL, AGES 3 THROUGH 21 AND NEW ELEMENTARY SCHOOL, TWO-STORY APPLICABLE CODES Building Code: 2021 INTERNATIONAL BUILDING CODE Life Safety Code: 2024 NFPA 101 LIFE SAFETY CODE Energy Code: 2021 INTERNATIONAL ENERGY CODE Mechanical Code: 2021 INTERNATIONAL MECHANICAL CODE Electrical Code: 2021 INTERNATIONAL ELECTRICAL CODE Plumbing Code: 2021 INTERNATIONAL PLUMBING CODE Fire and Sprinkler Code: 2018 NFPA 1 FIRE CODE Accessibility: AMERICANS WITH DISABILITY ACT ACCESSIBILITY GUIDELINES (ADAAG 2010) AND MARYLAND ACCESSIBILITY CODE (COMAR 09.12.03) BUILDING USE AND CONSTRUCTION CLASSIFICATIONS Use Group: E Proposed Type of Construction: IBC TYPE IIB Actual Building Area: First Floor: 185,911 GSF Second Floor: 26,680 GSF Total: 212,600 GSF Allowable Building Area: SEE AREA CALCULATIONS IN BUILDING AREA CHARTS ON SHEETS A001, A002 AND A003 Allowable Building Height: 7'6" (BC TABLE 504.3, for sprinklered building) 3 Stories (Max. stories above grade plane, IBC TABLE 504.4) Actual Building Height: 32'-6" - T.O.M. - 2 Story wing, 44' - T.O.S. - ES Penthouse			ALLOWABLE # OCC. REQ'D WIDTH 60° 32° 165° ACTUAL WIDTH ACTUAL # OCC. 2 HOUR RATING 1 HOUR RATING SMOKE PARTITION NFPA 101 SECTION 14.3.6 EXCEPTION #2 1 HR. HORIZONTAL SHAFT WALL 2 HR. HORIZONTAL SHAFT WALL 1 HR. RATED ROOF 1 HOUR-RATED STRUCTURE SUPPORTING RATED ROOF, INCLUDING ENTIRE LENGTH AND SPAN OF ALL SUPPORTING ELEMENTS		
OCCUPANCY LOADS AND EGRESS REQUIREMENTS Location Calculated Area in Sq. Ft. Person Occupant Load Egress Width Required Egress Width Provided Number Exits Required Number Exits Provided PANIC HARDWARE Per IBC Code 1010.2.8 & NFPA 101 7.2.1.7, 14.2.2.2 ALL DOORS SERVING 50 OR MORE OCCUPANTS EMERGENCY LIGHTING REQUIREMENTS Per IBC Code 1008 & NFPA 101 7.3.14.2.9 ALL MEANS OF EGRESS FIRE RATING REQUIREMENTS- STRUCTURAL ELEMENTS/ EGRESS COMPONENTS Primary Structural Frame Rating Required IBC Code Life Safety Code Exterior Bearing Walls Exterior Non-Bearing Walls Fire Walls Interior Bearing Walls Floor/Ceiling Assemblies Roof/Ceiling Assemblies Columns Beams Egress Corridors Shafts (Stairs) Shafts Other than Stairs Corridor Doors Smoke Barrier Smoke Partitions Smoke Barrier Doors Mixed Use Separation EGRESS WIDTH Egress width at stairs Egress width at doors and corridors			REMOITNESS OF EXITS Life Safety A.7.5.1.3.3 - 1/3 the Length of Maximum Room Diagonal (Credit for Sprinklered Building) IBC 1007.1.1 Exception 2 - 1/3 the Length of Maximum Room Diagonal (Credit for Sprinklered Building) MAXIMUM DEAD END DISTANCES IBC Code Life Safety Code NOTES: 1. Mixed use separation walls must have 45 minute rated opening protectives. 2. All fire partitions must comply with Section 703.4 of the IBC Code. They must extend from the top of the fire resistance rated floor/ceiling assembly below to the underside of the floor or roof slab or deck above and must be securely attached thereto. 3. All fire walls must comply with Section 706 of the IBC Code. 4. Elevator shaft to be (2) hour rated - U.L.F. U905. 5. Exterior walls indicated to provide (1) hour rating (ULF U905) - At stairs and fire walls where exterior walls form an angle less than 180 degrees, the exterior wall must be rated at stairs per L.S. 7.2.2.5.2, and IBC 1023.7, and at fire walls per L.S. 7.2.4.3.4 and IBC 706.5. 6. Stair Enclosures are one (1) hour rated. 7. Refer to 1/8" plans & coord. w/ MEP drawings for chases thru floor. Enclosure walls around these floor openings must be (1) hour rated & must extend from floor tight to deck above - pack w/ salling insulation. Rating to be as follows: 6" CMU- U.L. #U906 8. Gyp. Bd. - Gypsum Assoc. assembly WP1110 9. Refer to the Door Schedule for doors with closers required. 10. All rated walls and partitions must be permanently identified with signs or stenciling as follows: a. Identification markings must be located in accessible concealed floor, floor-ceiling and attic spaces. b. Identification markings must be located within 15'-0" of the end of each wall and at intervals not exceeding 30'-0" measured horizontally along the wall or partition. c. Lettering must not be less than 3" in height with a minimum 3/8" stroke in contrasting color incorporating the following wording: "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS". 11. Basis of Design: Fire separating design (ULF U905, other walls noted for the following): COLUMNS: U.L. #R700 ROOF-CEILING ASSEMBLIES AT NON-CONCRETE ROOF: U.L. #P719		



BUILDING AREA #4:	
OCCUPANCY	1,274
USE GROUP	E
CONSTRUCTION TYPE	IB
NUMBER OF STORIES	1
ACTUAL AREA THIS FLOOR	54,735 SF
ALLOWABLE AREA PER FLOOR	58,000 SF
% INCREASE FOR ACCESS	25%
ALLOWABLE AREA PER FLOOR WITH INCREASE	61,125 SF
TOTAL ALLOWABLE AREA THIS ZONE	61,125 SF

BUILDING AREA #3:	
OCCUPANCY	1,257
USE GROUP	E
CONSTRUCTION TYPE	IB
NUMBER OF STORIES	1
ACTUAL AREA THIS FLOOR	47,390 SF
ALLOWABLE AREA PER FLOOR	58,000 SF
% INCREASE FOR ACCESS	0%
ALLOWABLE AREA PER FLOOR WITH INCREASE	58,000 SF
TOTAL ALLOWABLE AREA THIS ZONE	58,000 SF

BUILDING AREA #2:	
OCCUPANCY	2,203
USE GROUP	E
CONSTRUCTION TYPE	IB
NUMBER OF STORIES	1
ACTUAL AREA THIS FLOOR	54,558 SF
ALLOWABLE AREA PER FLOOR	58,000 SF
% INCREASE FOR ACCESS	25%
ALLOWABLE AREA PER FLOOR WITH INCREASE	61,625 SF
TOTAL ALLOWABLE AREA THIS ZONE	61,625 SF

BUILDING AREA #1:	
OCCUPANCY	637
USE GROUP	E
CONSTRUCTION TYPE	IB
NUMBER OF STORIES	2
ACTUAL AREA THIS FLOOR	27,613 SF
ALLOWABLE AREA PER FLOOR	43,500 SF
% INCREASE FOR ACCESS	50%
ALLOWABLE AREA PER FLOOR WITH INCREASE	7,250 SF
TOTAL ALLOWABLE AREA THIS ZONE	101,500 SF



I CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY
ME AND THAT I AM A DULY LICENSED
ARCHITECT UNDER THE LAWS OF
MARYLAND. LICENSE NUMBER 17213.
EXPIRATION DATE 02/22/2027

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Suite 600
Calverton, MD 20705
Tel: 301.595.1000

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GP #22419
PSC #12F064

CODE STUDY - FIRST FLOOR

NEW COMBINATION HARFORD ACADEMY & ELEMENTARY SCHOOL
1608 EVA MAR BOULEVARD, BEL AIR, MARYLAND

DATE	DESCRIPTION
01/23/26	ADDENDUM #2

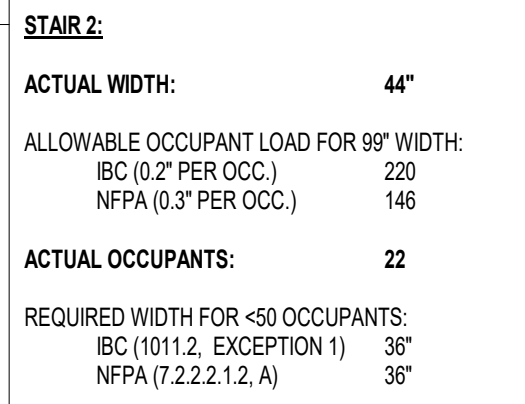
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01/12/26
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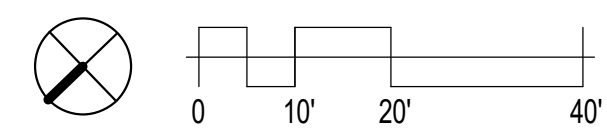
© GRIMM + PARKER ARCHITECTURE, INC.

A18 CODE STUDY PLAN - FIRST FLOOR
1" = 20'-0"

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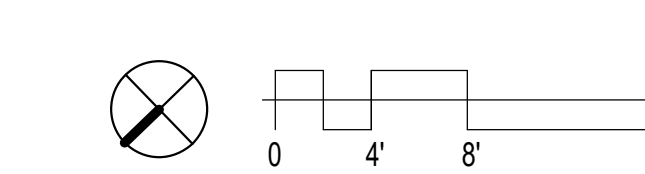
1° = 20'-0"





GENERAL PLAN NOTES

1. REFER TO SHEET A301 FOR WALL TYPES AS REFERENCED ON PLANS WITH THE DIAMOND SYMBOL.
2. TYPICAL CMU INTERIOR PARTITION TO BE TYPE A3 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS, WALL SECTIONS OR OTHER DETAILS.
3. TYPICAL CMU CHASE WALLS TO BE TYPE A1 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS, WALL SECTIONS OR OTHER DETAILS.
4. UNLESS NOTED OTHERWISE, WALLS MUST EXTEND TO THE ROOF OR FLOOR DECK ABOVE AND BE SEALED IN ACCORDANCE WITH THE WALL TERMINATION DETAILS. REFER TO THE CODE STUDY PLAN FOR IDENTIFICATION OF ALL SMOKE AND FIRE WALL CONDITIONS. PERIMETER CORRIDOR AND LOBBY WALLS MUST BE BUILT TO RESIST THE PASSAGE OF SMOKE.
5. DIMENSIONS ON PLANS ARE FROM FACE OF MASONRY TO FACE OF MASONRY, FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD.
6. COLUMN GRID LINES ARE FOR REFERENCE ONLY. REFER TO STRUCTURAL DRAWINGS FOR COLUMN LOCATIONS.
7. FE- INDICATES A FIRE EXTINGUISHER WITH A RECESSED CABINET. FE- INDICATES A FIRE EXTINGUISHER WITH A WALL MOUNTING BRACKET.
8. UNLESS SPECIFICALLY INDICATED OTHERWISE, THE SAME WALL TYPE NEXT TO A DOOR OR OPENING TO CONTINUE OVER THE DOOR OR OPENING.
9. PLAN LOCATION OF DOORS AND FRAMES RELATIVE TO THE PLANE OF THE WALL IS DIAGNOSTIC ONLY. REFER TO THE REFERENCED JAMB AND HEAD CONDITION DETAILS TO DETERMINE ACTUAL PLACEMENT OF DOOR AND FRAME.
10. AT PARTIAL HEIGHT WALLS, PROVIDE SOLID BULLNOSE CMU TOP COURSE TO HEIGHT AS SHOWN IN DRAWINGS.



A18 PARTIAL FIRST FLOOR PLAN - AREA A
1/8" = 1'-0"

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF MARYLAND. LICENSE NUMBER 17213. EXPIRATION DATE 02-22-2027.

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Suite 600
Calverton, MD 20705
Tel: 301.595.1000

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GP #22419
PSC #12F064

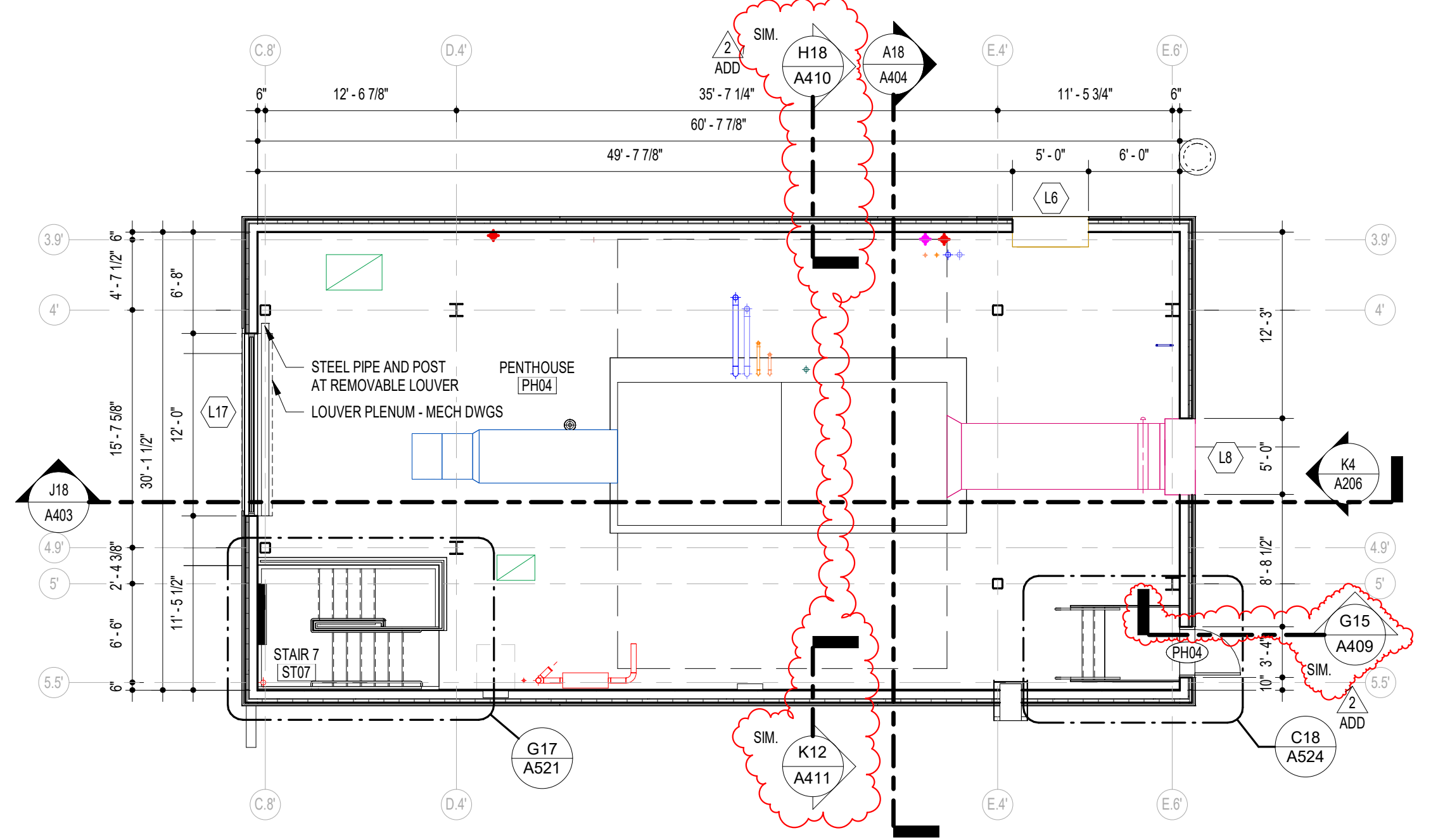
PARTIAL FIRST FLOOR PLAN - AREA A
NEW COMBINATION HARFORD ACADEMY & ELEMENTARY SCHOOL
1605 EVA MAR BOULEVARD, BEL AIR, MARYLAND

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01/23/26	ADDENDUM #2

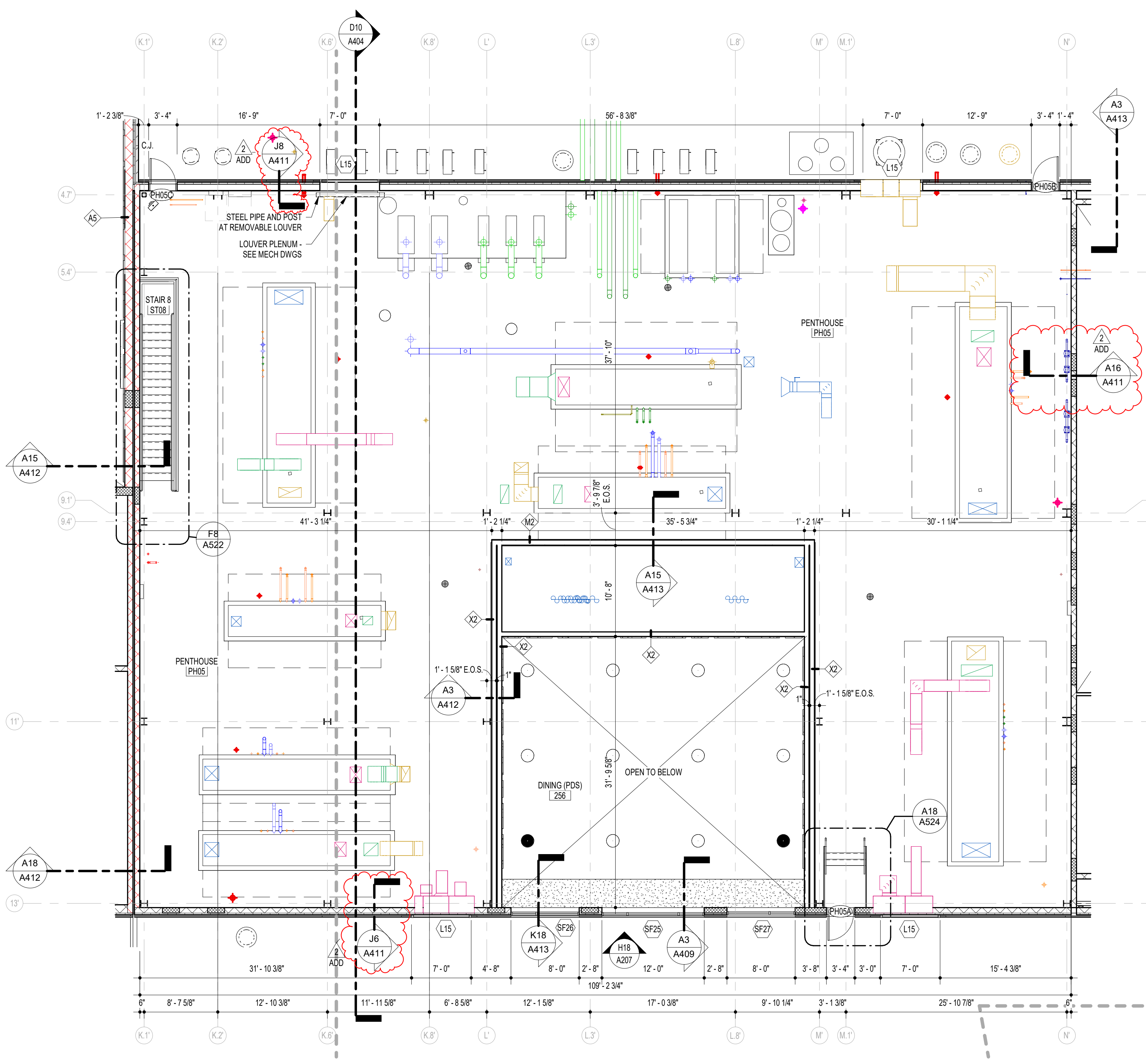
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GENERAL PLAN NOTES

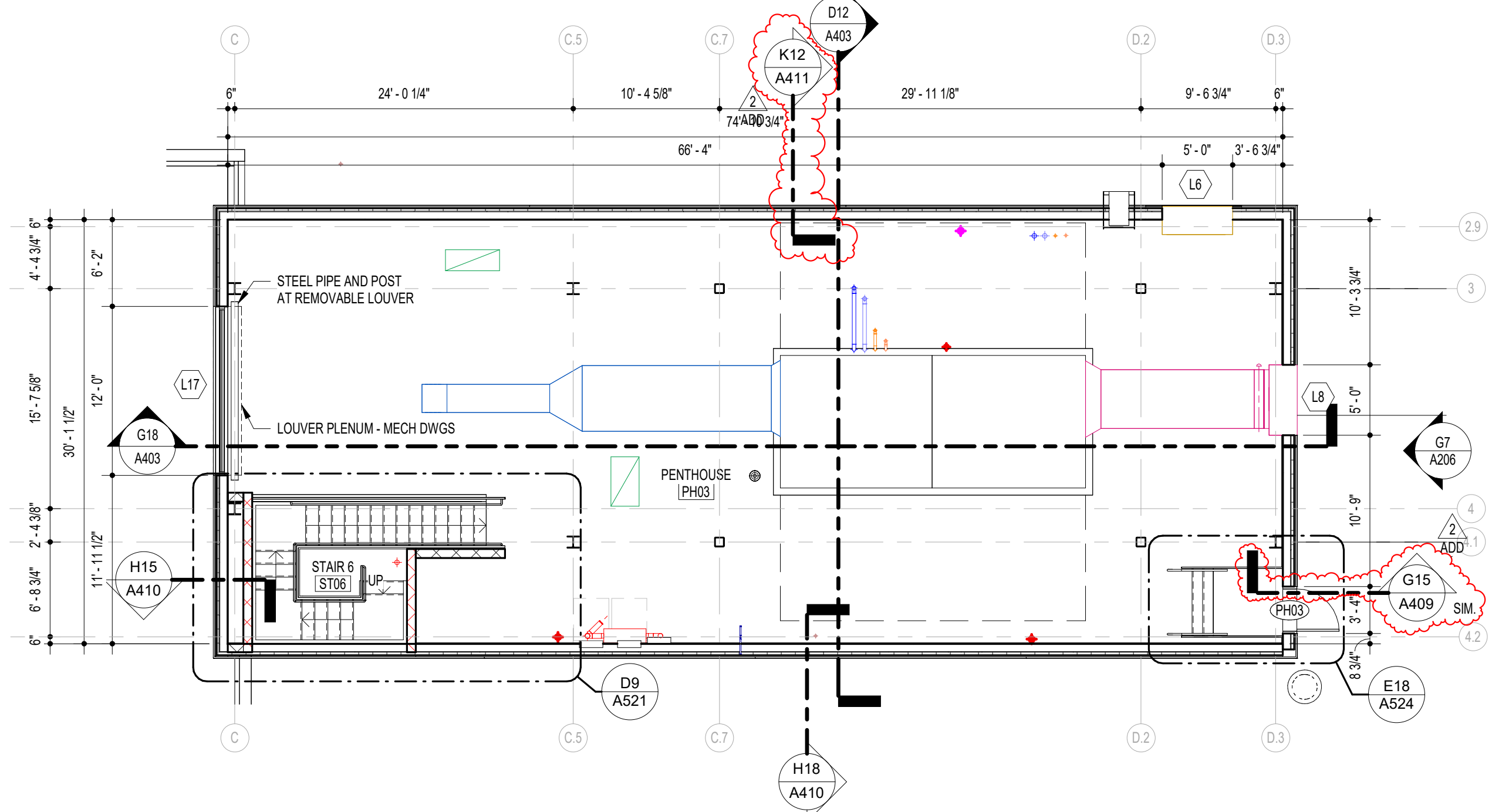
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10. AT PARTIAL HEIGHT WALLS, PROVIDE SOLID BULLNOSE CMU TOP COURSE TO HEIGHT AS SHOWN IN DRAWINGS.



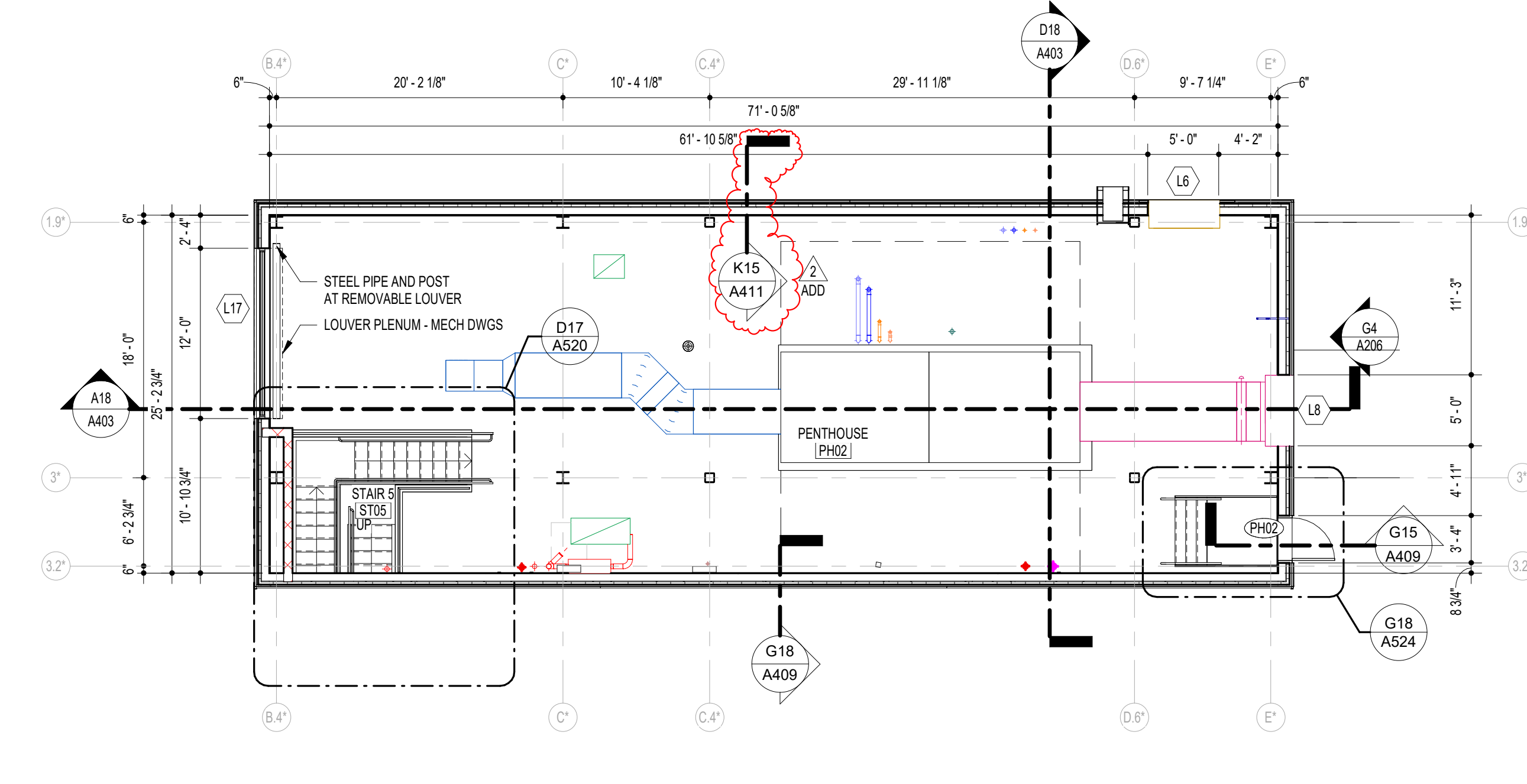
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1/8" = 1'-0"



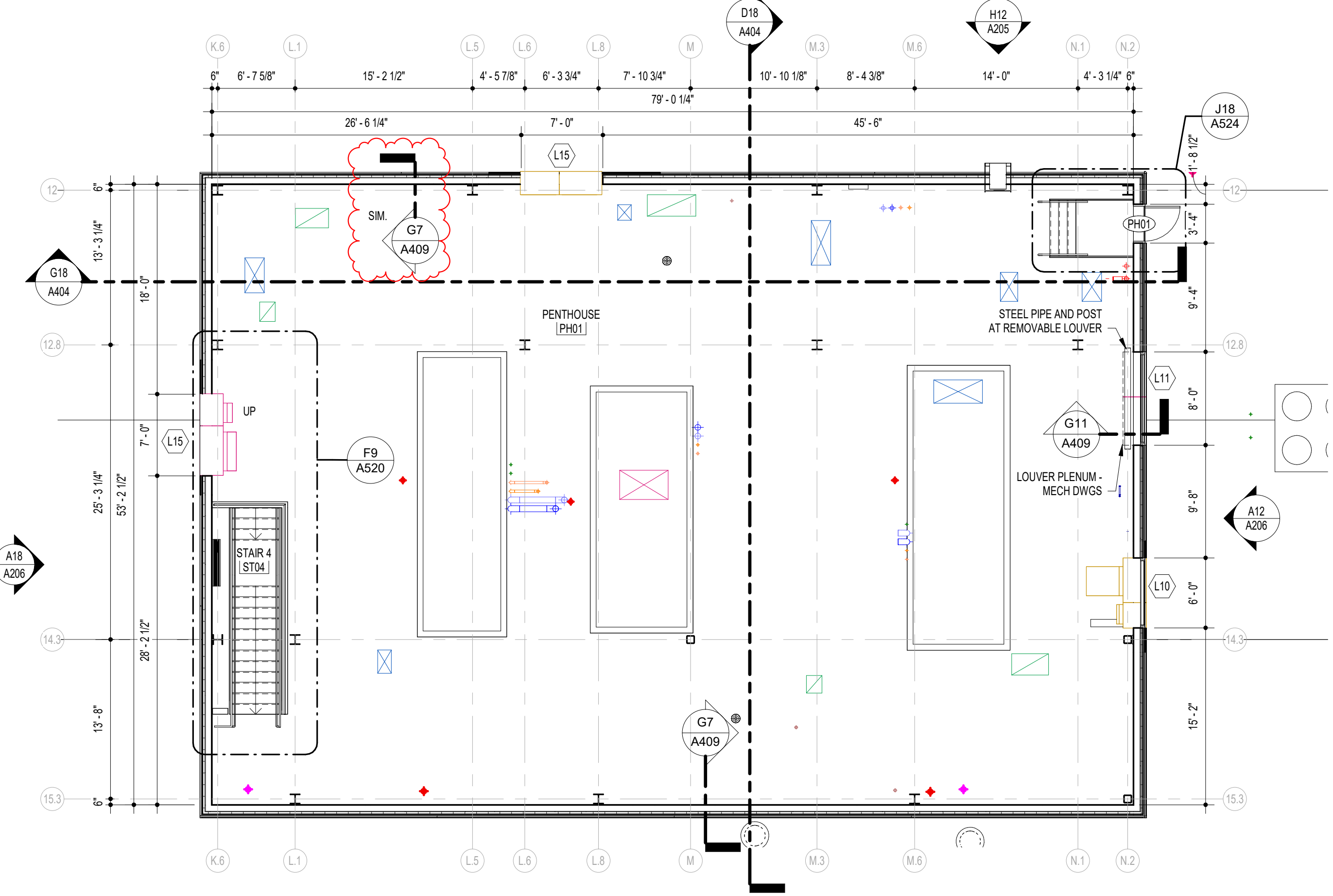
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1/8" = 1'-0"



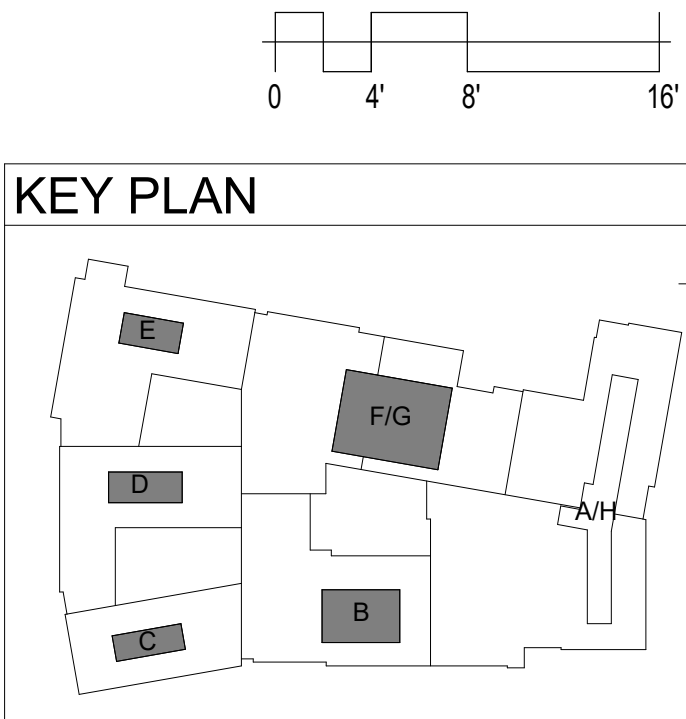
E18 PENTHOUSE 03 PLAN - AREA D
1/8" = 1'-0"



A18 PENTHOUSE 02 PLAN - AREA C
1/8" = 1'-0"



A10 PENTHOUSE 01 PLAN - AREA B
1/8" = 1'-0"



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GP #22419
PSC #L2F064

PENTHOUSE PLANS
NEW COMBINATION HARFORD ACADEMY & ELEMENTARY SCHOOL
1605 EVA MAR BOULEVARD, BEL AIR, MARYLAND

DATE	DESCRIPTION
01/23/26	ADDENDUM #2

A103
01/12/26
BID SET
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GENERAL PLAN NOTES

1. REFER TO SHEET A301 FOR WALL TYPES AS REFERENCED ON PLANS WITH THE DIAMOND SYMBOL.
2. TYPICAL CMU INTERIOR PARTITION TO BE TYPE A3 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS, WALL SECTIONS OR OTHER DETAILS.
3. TYPICAL CMU CHASE WALLS TO BE TYPE A1 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS, WALL SECTIONS OR OTHER DETAILS.
4. UNLESS NOTED OTHERWISE, WALLS MUST EXTEND TO THE ROOF OR FLOOR DECK ABOVE AND BE SEALED IN ACCORDANCE WITH THE WALL TERMINATION DETAILS. REFER TO THE CODE STUDY PLAN FOR IDENTIFICATION OF ALL SMOKE AND FIRE WALL CONDITIONS. PERIMETER CORRIDOR AND LOBBY WALLS MUST BE BUILT TO RESIST THE PASSAGE OF SMOKE.
5. DIMENSIONS ON PLANS ARE FROM FACE OF MASONRY TO FACE OF MASONRY, FACE OF MASONRY TO FACE OF GYPSUM BOARD OR FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD.
6. COLUMN GRID LINES ARE FOR REFERENCE ONLY. REFER TO STRUCTURAL DRAWINGS FOR COLUMN LOCATIONS.
7. FE- INDICATES A FIRE EXTINGUISHER WITH A RECESSED CABINET. FE- INDICATES A FIRE EXTINGUISHER WITH A WALL MOUNTING BRACKET.
8. UNLESS SPECIFICALLY INDICATED OTHERWISE, THE SAME WALL TYPE NEXT TO A DOOR OR OPENING TO CONTINUE OVER THE DOOR OR OPENING.
9. PLAN LOCATION OF DOORS AND FRAMES RELATIVE TO THE PLANE OF THE WALL IS DIAGRAMMATIC ONLY. REFER TO THE REFERENCED JAMB AND HEAD CONDITION DETAILS TO DETERMINE ACTUAL PLACEMENT OF DOOR AND FRAME.
10. AT PARTIAL HEIGHT WALLS, PROVIDE SOLID BULLNOSE CMU TOP COURSE TO HEIGHT AS SHOWN IN DRAWINGS.

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF MARYLAND. LICENSE NUMBER 17213. EXPIRATION DATE 02.22.2027

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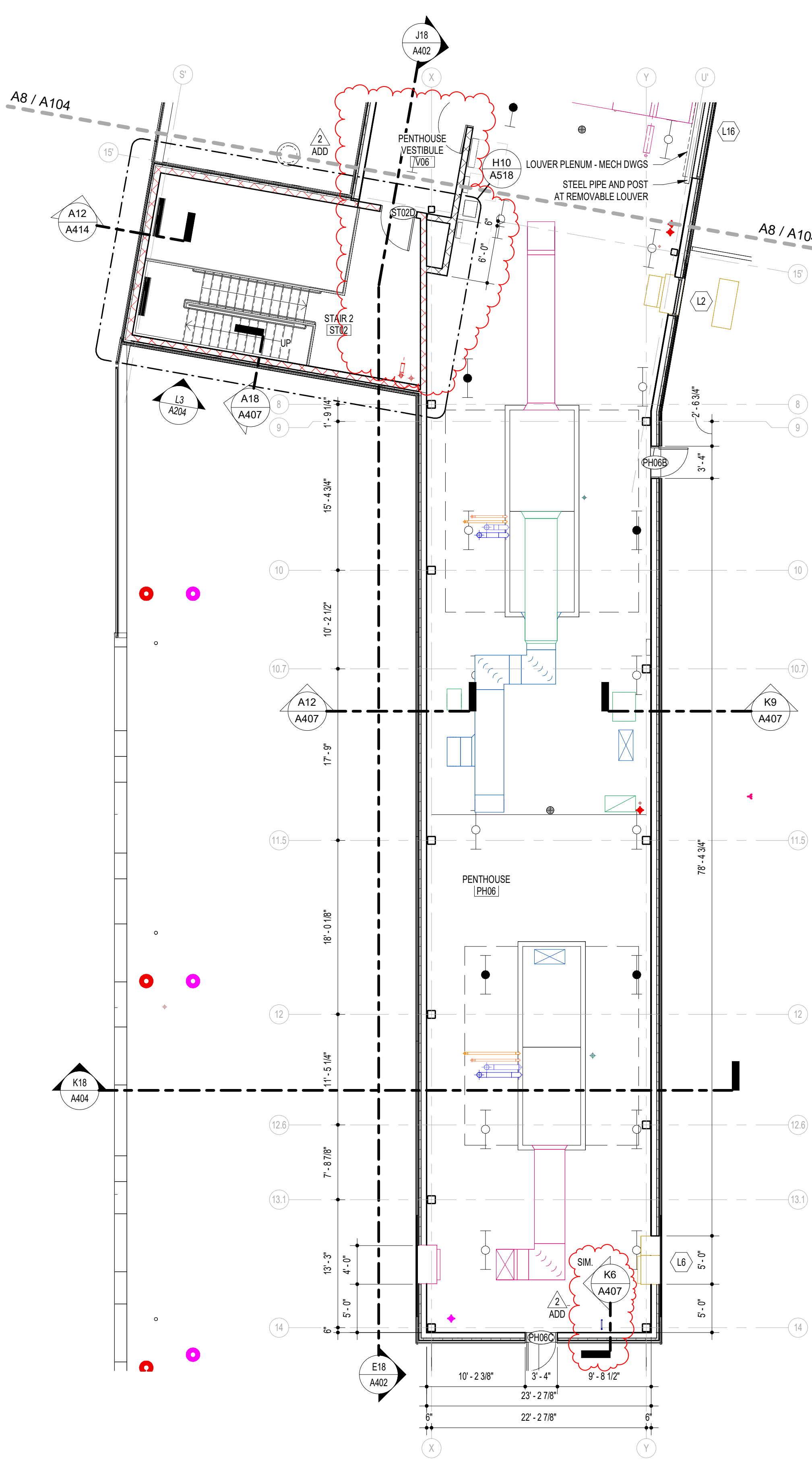


GP #22419
PSC #L12F064

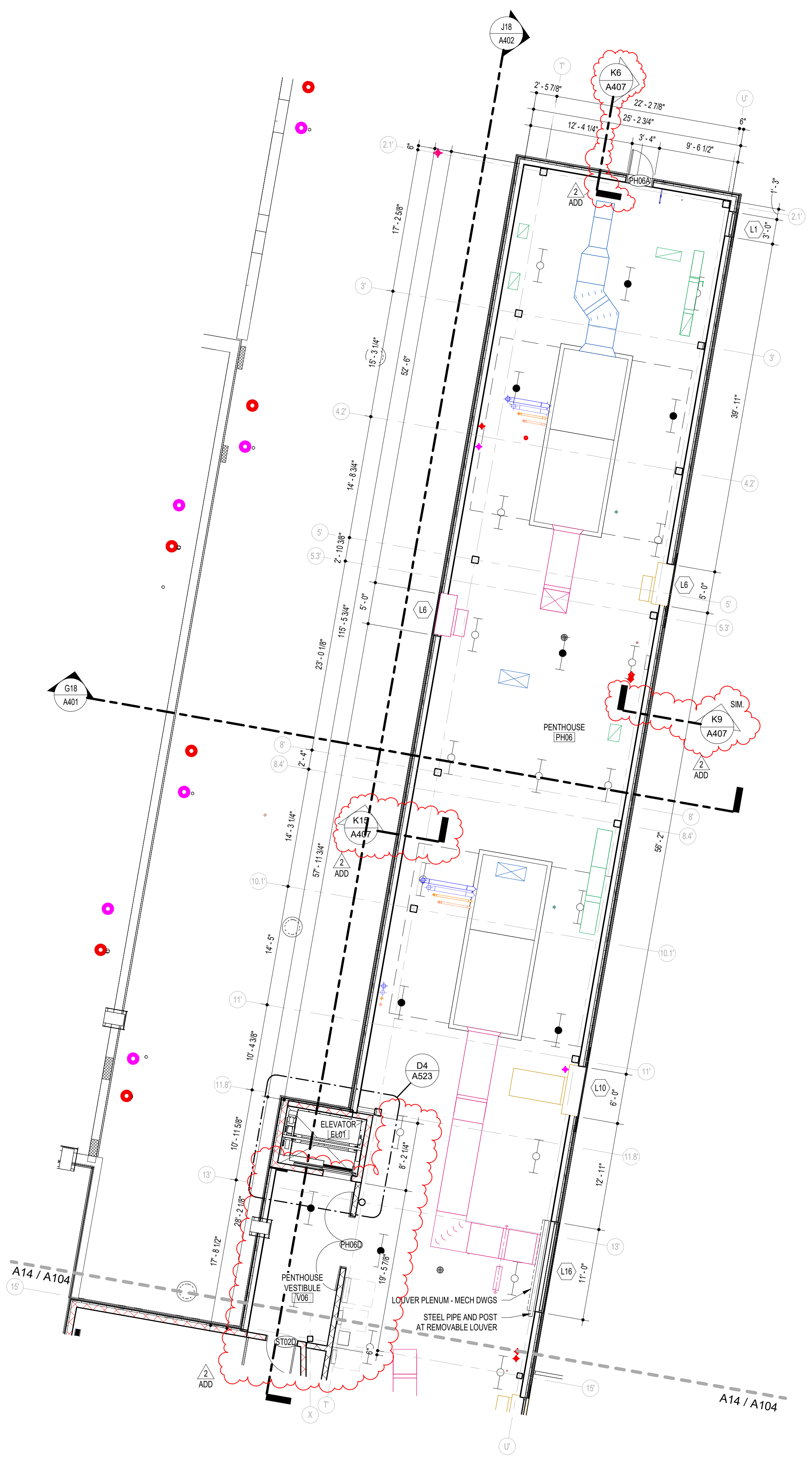
PENTHOUSE PLANS
NEW COMBINATION HARFORD ACADEMY & ELEMENTARY SCHOOL
1605 EVA MAR BOULEVARD, BEL AIR, MARYLAND

DATE	DESCRIPTION
01/23/26	ADDENDUM #2

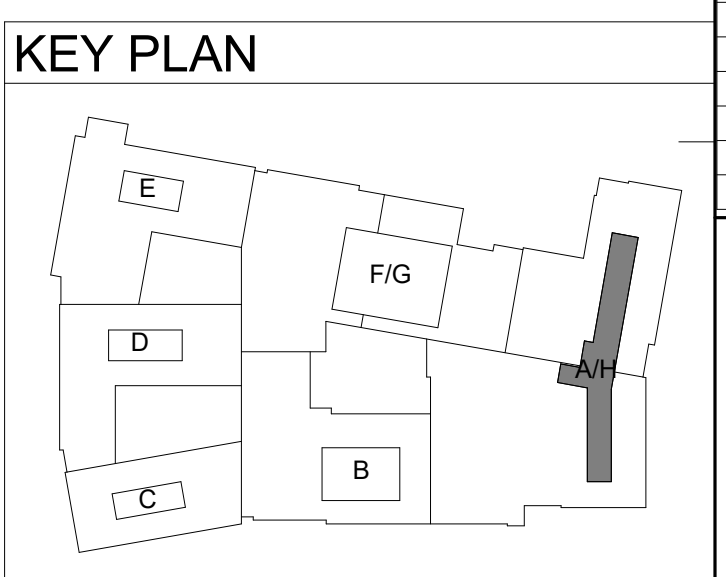
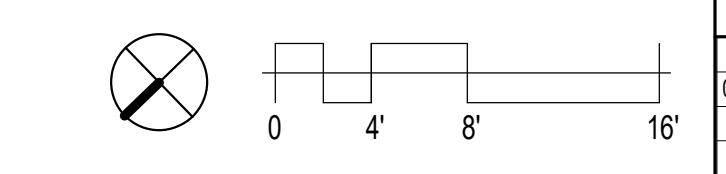
A104
01/12/26
BID SET



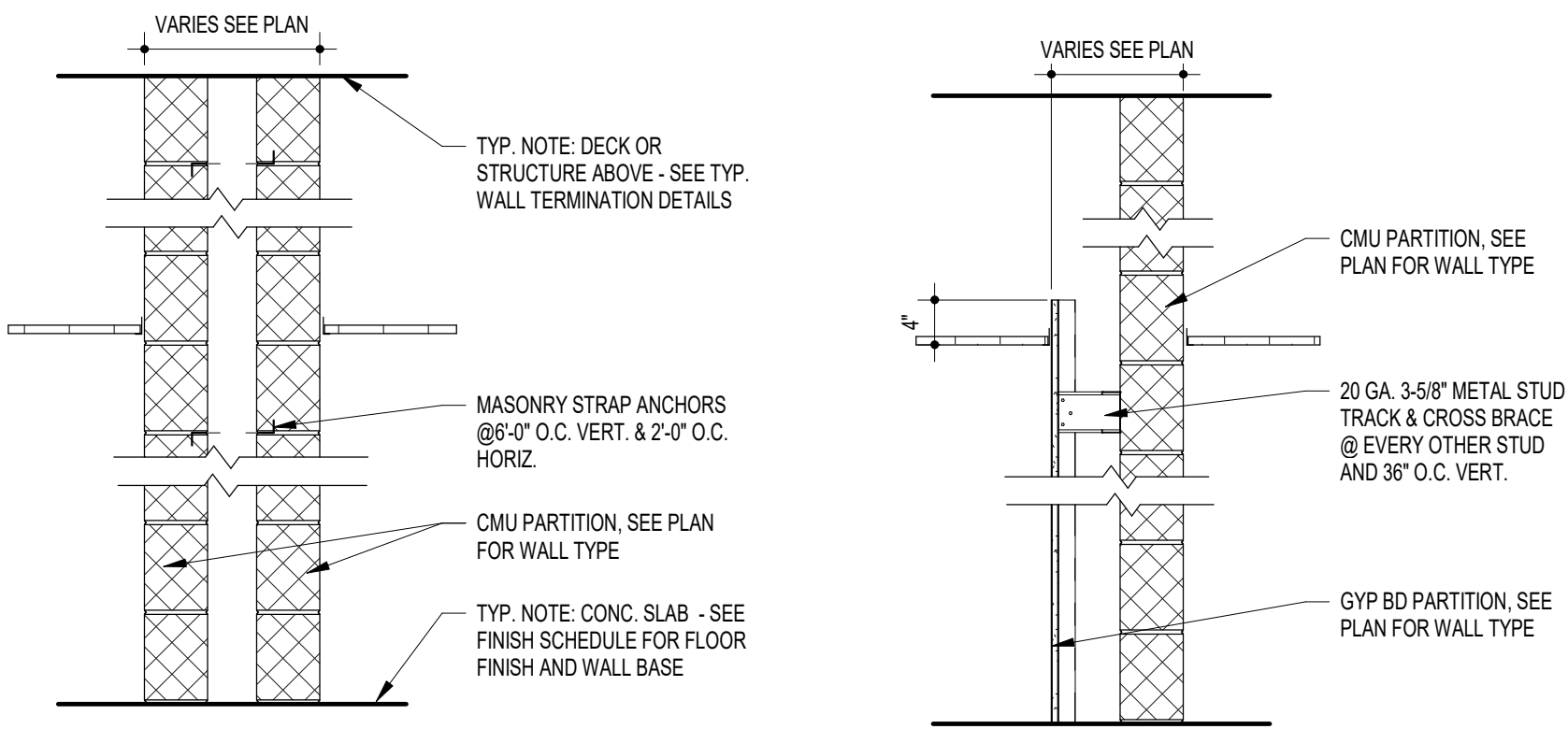
A14 PENTHOUSE 06 PLAN - AREA A
1/8" = 1'-0"



A8 PENTHOUSE 06 PLAN - AREA H
1/8" = 1'-0"

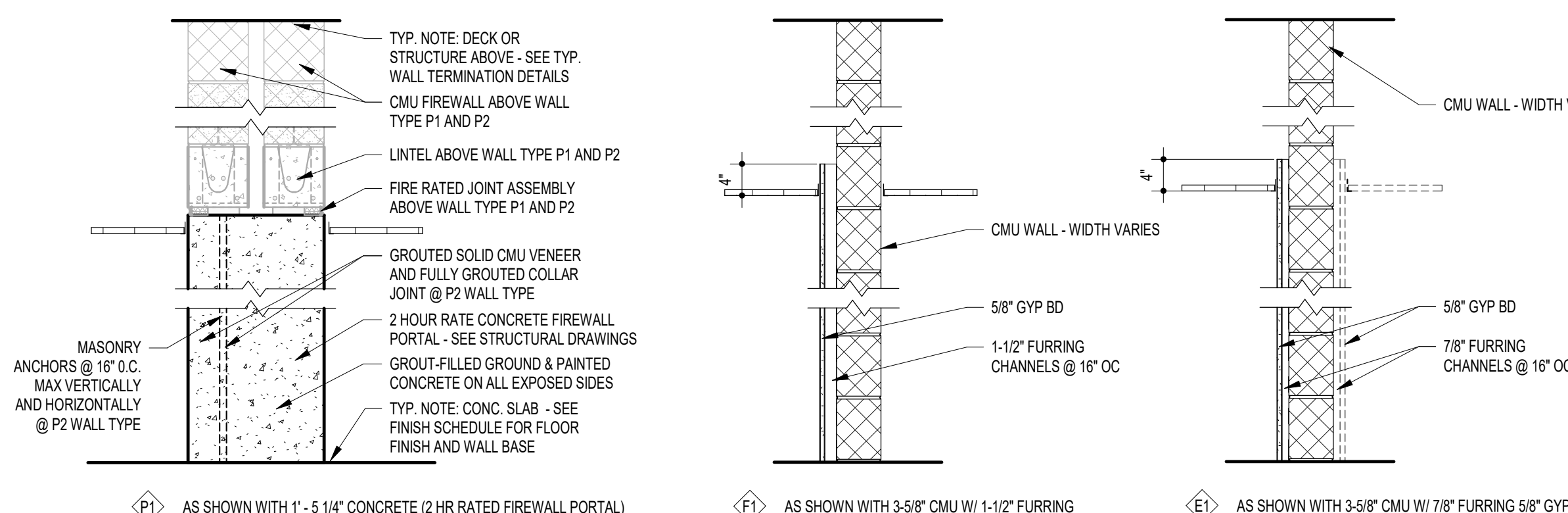


INTERIOR WALL TYPES



K18 TYP. CHASE WALL BRACING
3/4" = 1'-0"

K15 TYP. CHASE WALL BRACING
3/4" = 1'-0"



- P1 AS SHOWN WITH 1'-5 1/4" CONCRETE (2 HR RATED FIREWALL PORTAL)
- P2 AS SHOWN WITH GROUTED SOLID 3-5/8" CMU VENEER, FULLY GROUTED 7/8" COLLAR JOINT, AND 1'-4 3/4" CONCRETE (2 HR RATED FIREWALL PORTAL)
- F1 AS SHOWN WITH 3-5/8" CMU W/ 1-1/2" FURRING
- F2 AS SHOWN WITH 5-5/8" CMU W/ 1-1/2" FURRING
- F3 AS SHOWN WITH 7-5/8" CMU W/ 1-1/2" FURRING
- F4 AS SHOWN WITH 9-5/8" CMU W/ 1-1/2" FURRING
- F5 AS SHOWN WITH 11-5/8" CMU W/ 1-1/2" FURRING
- E1 AS SHOWN WITH 3-5/8" CMU W/ 7/8" FURRING 5/8" GYP BD ONE SIDE
- E2 5-5/8" CMU W/ 7/8" FURRING 5/8" GYP. BD. ONE SIDE
- E3 7-5/8" CMU W/ 7/8" FURRING 5/8" GYP. BD. ONE SIDE
- E4 7-5/8" CMU W/ 7/8" FURRING 5/8" GYP. BD. BOTH SIDES
- A1 AS SHOWN WITH 3-5/8" CMU (STC-40)
- A2 AS SHOWN WITH 5-5/8" CMU (STC-42)
- A3 AS SHOWN WITH 7-5/8" CMU (STC-44)
- A4 AS SHOWN WITH 9-5/8" CMU (STC-46)
- A5 AS SHOWN WITH 11-5/8" CMU (STC-48)

TYPICAL WALL TYPE NOTES

- NOT ALL WALL TYPES SHOWN ARE REPRESENTED IN THESE DRAWINGS.
- WALLS MUST EXTEND FULL HEIGHT FROM FLOOR SLAB TO THE FLOOR OR ROOF DECK ABOVE UNLESS SPECIFICALLY NOTED OTHERWISE. IN CORRIDORS, EXTEND COLUMN CHASE AND LOCKER IN WALLS 4' ABOVE CEILING ONLY.
- REFER TO THE CODE STUDY AND FLOOR PLANS FOR IDENTIFICATION OF ALL SMOKE AND FIRE WALL CONDITIONS / LOCATIONS. IN ADDITION TO THE REQUIREMENTS INDICATED ON THE CODE STUDY AND FLOOR PLANS, ALL CORRIDOR AND VESTIBULE WALLS MUST BE BUILT TO RESIST THE PASSAGE OF SMOKE.
- FIRE WALLS, FIRE SEPARATION WALLS, SMOKE BARRIER WALLS AND WALLS REQUIRED TO RESIST THE PASSAGE OF SMOKE MUST EXTEND FULL HEIGHT FROM FLOOR SLAB TO THE FLOOR OR ROOF DECK ABOVE AND MUST BE SEALED TIGHT TO THE DECK OR STRUCTURAL MEMBER WITH AN APPROVED FIRE RESISTIVE JOINT SYSTEM. SEAL ALL PENETRATIONS AND TOPS OF WALLS IN ACCORDANCE WITH SPECIFICATION DIVISION 7 SECTION - FIRE RESISTIVE JOINT SYSTEMS. WALLS AT FIRE AND SMOKE CONDITIONS / LOCATIONS MUST BE BUILT TIGHT TO DUCTS, PIPES AND PENETRATIONS AND MUST BE TERMINATED IN ACCORDANCE WITH WALL TERMINATION DETAILS ON THIS SHEET. FILL FLUTES IN FLOOR AND ROOF DECKS AS INDICATED, WHERE WALLS AT FIRE AND SMOKE CONDITIONS / LOCATIONS ARE INTERRUPTED BY STRUCTURAL MEMBERS, PROVIDE FIRE RESISTIVE JOINT SYSTEM IN AREAS BETWEEN TOP AND/OR SIDE OF WALL AND STRUCTURAL MEMBER ABOVE AND STRUCTURAL MEMBER IN ACCORDANCE WITH APPROVED FIRE RESISTIVE JOINT SYSTEM AND TYPICAL WALL TERMINATION NOTE #4 BELOW.
- TYPICAL CMU INTERIOR PARTITION TO BE TYPE A3 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS. WALL SECTIONS OR OTHER DETAILS.
- TYPICAL GYPSUM BOARD/STUD WALL PARTITION TO BE TYPE K1 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS. WALL SECTIONS OR OTHER DETAILS.
- TYPICAL CMU CHASE WALLS TO BE TYPE A1 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS. WALL SECTIONS OR OTHER DETAILS.
- TYPICAL GYPSUM BOARD CHASE WALLS TO BE TYPE K1 UNLESS INDICATED OTHERWISE BY WALL TYPE SYMBOLS. WALL SECTIONS OR OTHER DETAILS.
- WALL TYPES MAY NOT HAVE BEEN INCLUDED IN THIS SCHEDULE FOR INTERIOR WALL TYPES WHICH ARE COVERED BY WALL SECTIONS.
- THESE WALL TYPES DO NOT SHOW LATERAL BRACING OR WALL REINFORCING. SEE STRUCTURAL AND OTHER DRAWINGS FOR THAT INFORMATION.
- SEE FINISH SCHEDULE FOR FINISHES TO BE APPLIED TO THESE WALL TYPES.
- ALL WALLS WITH FIRE RATING INDICATED TO BE BUILT IN STRICT CONFORMANCE WITH A UL TESTED ASSEMBLY OR OTHER TESTED ASSEMBLY WHICH PROVIDES THE FIRE RATING INDICATED.
- FURRING CHANNELS AND STUDS TO BE 1/2" O.C. MAXIMUM UNLESS SPECIFICALLY NOTED OTHERWISE.
- THE GAGE OF ALL METAL STUDS TO BE USED SO THAT THE DEFLECTION OF THE WALL TYPE OR DETAILS.
- ALL WALLS WITH SOUND ATTENUATION BLANKETS OR AN STC RATING LISTED, OUTLETS, SWITCHES, ETC., MUST NOT BE LOCATED BACK TO BACK, OUTLETS TO BE OFFSET AND SEALED. PENETRATIONS OF WALLS AT ADJACENT WALLS, COLUMNS, CEILING, ETC.) SHOULD BE SEALED. ADDITIONALLY, WALL PENETRATIONS MUST BE SEALED WITH APPROPRIATE TYPE OF ACOUSTIC SEALANT.
- PROVIDE SPACE FOR DEFLECTION OF BEAMS, JOISTS, AND STEEL DECK @ TOP OF ALL WALLS THAT RUN TO THE DECK. FILL GAP WITH NON COMBUSTIBLE, COMPRESSIBLE FILLER ON NON RATED WALLS AND FIRE RESISTIVE JOINT SYSTEM ON RATED WALLS - SEE TYP. DETAILS THIS SHEET.
- FOR CASES WHEN WALLS ARE INDICATED TO EXTEND FULL HEIGHT TO THE DECK BUT STOP AT A STRUCTURAL MEMBER, SEE THE TYPICAL DETAILS ON THIS SHEET FOR THE APPROPRIATE CLOSURE CONDITIONS. IF EXACT CONDITION IS NOT INDICATED, MODIFY CLOSEST CONDITION FOR SPECIFIC APPLICATION.
- PROVIDE METAL BACKER PLATE ACCESSORY IN ALL IN ALL STUD WALLS WHERE REQUIRED TO ATTACH WALL HUNG, CASEWORK, SHELVING, LIGHTS, ELECTRICAL DEVICES, TOILET ACCESSORIES AND ANY OTHER ITEMS WHICH REQUIRE SECURE ATTACHMENT TO THE WALLS. PROVIDE RTT WOOD BLOCKING IN ALL STUD WALLS WHERE REQUIRED TO ATTACH FLOOR SUPPORTED LOCKERS, CASEWORK AND ANY OTHER ITEMS THAT REQUIRE SECURE ATTACHMENT TO WALLS.
- IN ROOMS WHERE NO FINISHED CEILING IS PROVIDED, EXTEND ALL CHASE WALLS TO FLOOR OR ROOF DECK ABOVE.
- PROVIDE CONT. SEALANT AT BASE OF ALL GYP. BD. WALLS (BOTH SIDES), TYPICAL.

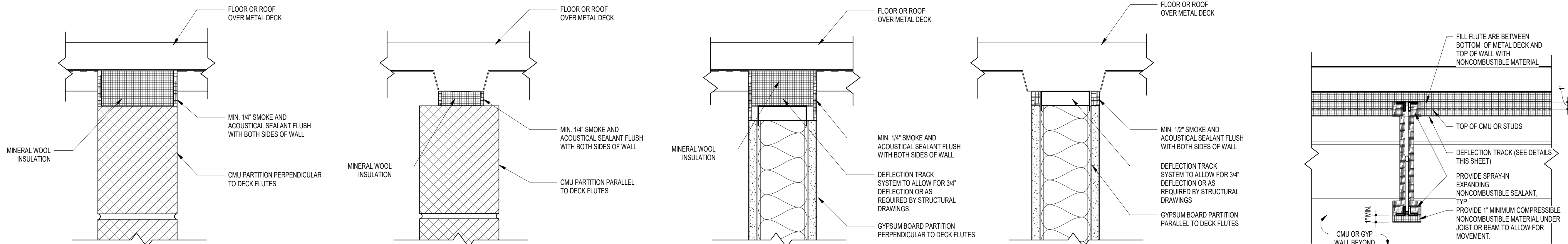
ELECTRICAL BOXES IN FIREWALLS

ELECTRICAL BOXES IN FIRE RATED PARTITIONS MUST NOT EXCEED 16 SQUARE INCHES IN AREA (IF 4"x4"), TO BE MADE OF STEEL, AND MUST BE SPACED SUCH THAT THE CUMULATIVE AREA OF BOX CUTOUTS IN THE FIREWALL DOES NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET OF WALL AREA. ELECTRICAL BOXES ON OPPOSITE SIDES OF THE SAME FIREWALL MUST BE SEPARATED BY A HORIZONTAL AND VERTICAL, PENETRANCE OF NOT LESS THAN 2". THE ELECTRICAL CONTRACTOR TO MAKE MINOR ADJUSTMENTS, AS NECESSARY, TO ELECTRICAL BOX LOCATIONS TO ENSURE COMPLIANCE WITH THIS REQUIREMENT SINCE BOX LOCATIONS ARE TYPICALLY NOT DIMENSIONED ON THE DRAWINGS. CONSULT ARCHITECT IF CLARIFICATION IS REQUIRED.

TYPICAL WALL TERMINATION NOTES

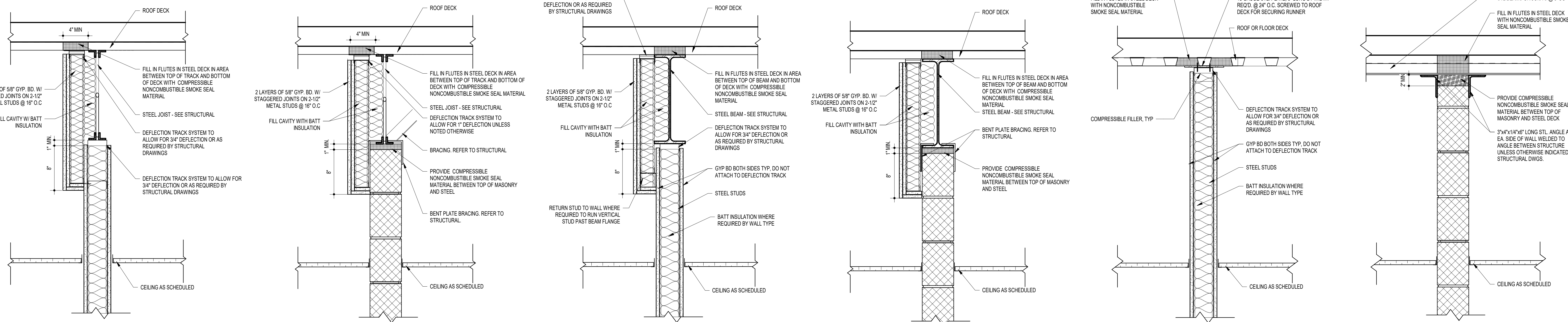
- USE THESE TYPICAL WALL TERMINATION DETAILS FOR ALL WALLS INDICATED TO EXTEND TO DECK ABOVE, UNLESS SPECIFICALLY DETAILED OTHERWISE. COORDINATE WITH STRUCTURAL FRAMING PLANS.
- SEE WALL TYPES ABOVE FOR ACTUAL WALL CONSTRUCTION.
- AT FIRE WALLS, FIRE SEPARATION WALLS, SMOKE BARRIER WALLS AND WALLS REQUIRED TO RESIST THE PASSAGE OF SMOKE, ALL MATERIALS OR COMBINATION OF MATERIALS REFERENCED IN THE WALL TERMINATION DETAILS, INCLUDING COMPRESSIBLE AND NON-COMBUSTIBLE MATERIALS, MINERAL WOOL INSULATION, FIRE AND SMOKE RESISTIVE SEALANTS AND SPRAY FIRESTOP MUST BE PROVIDED IN ACCORDANCE WITH THE APPROVED FIRE RESISTIVE JOINT SYSTEM, WHERE UL ASSEMBLIES ARE INDICATED, CONTRACTOR MUST REFERENCE UL ASSEMBLIES FOR ADDITIONAL REQUIREMENTS OF THE REFERENCED ASSEMBLIES. IF ALTERNATE UL ASSEMBLIES ARE SUBMITTED, CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REQUIREMENTS OF THE SUBMITTED ASSEMBLY.
- IF A WALL REQUIRING A FIRE RATING IS LOCATED DIRECTLY UNDER A BEAM THE FIRE RATING OF THE WALL MUST BE MAINTAINED TO THE DECK BY EXTENDING WALL AROUND BEAM. CONSULT ARCHITECT FOR EXACT REQUIREMENTS TO MAINTAIN RATING.

WALL TERMINATION DETAILS



E17 NON-RATED SMOKE PARTITION TOP OF WALL JOINT
3" = 1'-0"

E6 JOIST OR BEAM. PERP. TO WALL
1 1/2" = 1'-0"



A17 NON-RATED STUD WALL ALIGNED UNDER A JOIST
1 1/2" = 1'-0"

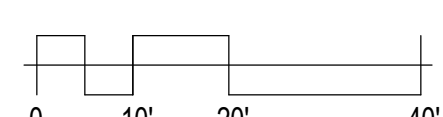
A14 NON-RATED CMU WALL ALIGNED UNDER A JOIST
1 1/2" = 1'-0"

A11 NON-RATED STUD WALL ALIGNED UNDER A BEAM
1 1/2" = 1'-0"

A8 NON-RATED CMU WALL ALIGNED UNDER A BEAM
1 1/2" = 1'-0"

A6 NON-RATED STUD WALL TO DECK
1 1/2" = 1'-0"

A3 NON-RATED CMU WALL PARALLEL TO STRUCT.
1 1/2" = 1'-0"



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GP #22419
PSC #12F064

WALL TYPES AND WALL TERMINATION DETAILS
NEW COMBINATION HARFORD ACADEMY & ELEMENTARY SCHOOL
1608 EVA MAR BOULEVARD, BEL AIR, MARYLAND

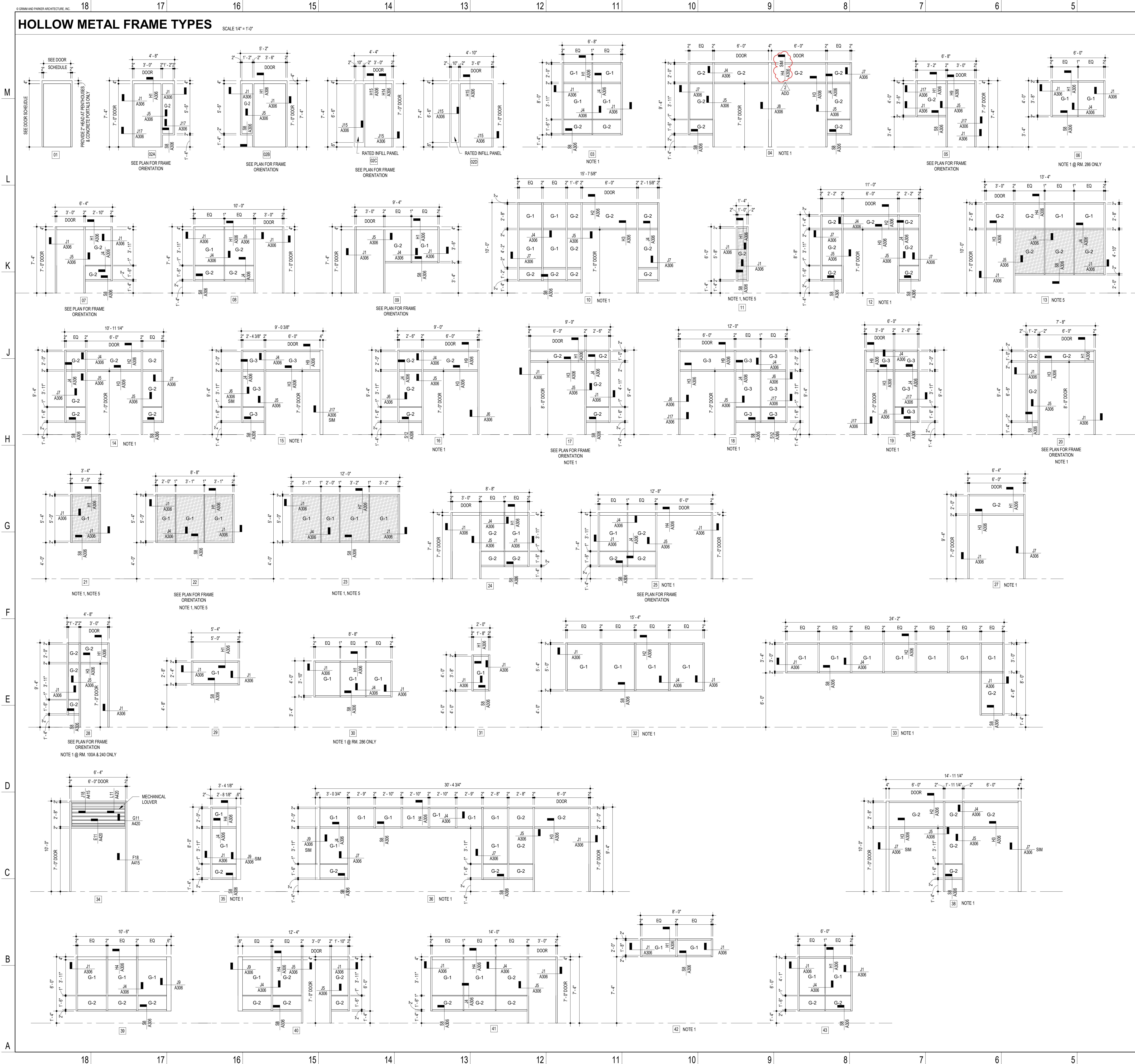
DATE	DESCRIPTION
01/23/26	ADDENDUM #2

A301

01/12/26
BID SET

	DOOR							FRAME				DOOR LABEL FIRE RATING	HARDWARE SET	REMARKS	REV	
	NOMINAL SIZE							SECTIONS								
	DOOR NO.	WIDTH	HEIGHT	THK.	TYPE	MATL	MATL	TYPE	JAMB	HEAD	SILL					
M	100A	3'-0"	7'-0"	1 3/4"	FG2	SCWD	HM	28	J1/J5	H1/H3	S2		831	1,22.28		
	100B	3'-0"	7'-0"	1 3/4"	FG2	SCWD	HM	28	J1/J5	H1/H3	-		832	1,22		
	100C	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	-		110	14		
	100T	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1/J7	H1	S3		113	1,9		
	110	3'-0"	7'-0"	1 3/4"	HG	SCWD	HM	07	J1/J5	H1	-		512	1		
	111	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	05	J1/J5	H1	-		510			
	112	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	-		111			
	113	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	-		810			
	114	3'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J1	H1	-		511	1		
	115T	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S3		112	9,30		
L	116T	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S3		112	9		
	117T	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S3		113	1,9		
	120A	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S2		510			
	120B	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S2		510			
	121E	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S1		811	1,14		
	122	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S2		510			
	123A	3'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J1	H1	-		510			
	123B	3'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J1	H1	-		511	1		
	124	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	-		812	1		
	125	3'-0"	7'-0"	1 3/4"	HG	SCWD	HM	07	J1/J5	H1	S2		512	1		
K	126	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	-		712	1,14		
	127	3'-0"	7'-0"	1 3/4"	FG2	SCWD	HM	07	J1/J5	H1	-		512	1		
	128	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	-		510			
	129C	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S1		812	1,14		
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	131	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S1		812	1		
	132	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S2		510			
	133	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S2		510			
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J	136	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S2		510			
	136T	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S3		112	9		
	137	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S2		510			
	137T	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S3		112	9		
	138	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S2		510			
	139	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S2		510			
	140	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S2		510			
	141T	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S3		112	9		
	142DF	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S1		811	1,14		
	143	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S1		810			
H	144	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S2		111			
	145	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S2		111			
	146T	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S3		113	1,9		
	147	3'-0"	7'-0"	1 3/4"	FG2	SCWD	HM	08	J1/J5	H1	-		511	1		
	148	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S2		510			
	149	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S2		510			
	150	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S2		510			
	151	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S2		510			
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	153	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S2		510			
G	154	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S2		510			
	155	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S2		510			
	156	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S2		510			
	157	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S2		511	1		
	158	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	-		512	1		
	159	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	-		710			
	160	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	-		710			
	161	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	-		810	9		
	162T	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S3		112	9		
	163	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	-		111			
F	164	3'-0"	7'-0"	1 3/4"	HG	SCWD	HM	01	J1	H1	-		111			
	165T	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S3		112	9,30		
	167	3'-0"	7'-0"	1 3/4"	HG	SCWD	HM	02A	J1/J5	H1	-		512	1		
	172	3'-0"	7'-0"	1 3/4"	HG	SCWD	HM	08	J1/J5	H1	-		510			
	200	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	-		510			
	201	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	-		715	1		
	202	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	-		711			
	203	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	-		510			
	204A	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	-		715	1		
	204B	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	-		715	1		
E	206	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	-		510			
	207	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S13		511	1,11		
	208	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	-		510	1		
	209	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	-		510			
	210	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	-		510			
	211	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	-		810			
	212T	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S3		113	1,9		
	213E	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S1		811	1,14		
	214DF	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S1		811	1,14		
	215	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	-		510			
D	216	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	-		510			
	217	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	-		514	1		
	218	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	-		512	1		
	219A	6'-0"	7'-0"	1 3/4"	HG	SCWD	HM	01	J1	H1	S13		324	1,2,6		
	219B	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S13		314	1,2,6		
	220	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	S13		510			
	221	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	-		512	1		
	222	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	-		510	1		
	223	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	-		810			
	224	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	-		510			
C	225	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	-		510			
	226T	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S3		113	1,9		
	227C	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S1		812	1		
	228A	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	-		510			
	228B	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	-		510	14		
	229	6'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	-		610	10,14		
	230	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/J5	H1	-		510			
	231E	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S1		811	1		
	232A	6'-0"	7'-0"	1 3/4"	FG2	SCWD	HM	15	J5/H6	H3/H9	S13		324	1,2,6		
	B	233T	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S3		210	1,13	
234		6'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J6	H9	S1		823			
235		3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S3		210	1,13		
236		6'-0"	7'-10"	1 3/4"	F	HM	HM	01	J15 SIM	H15 SIM	S1		90 MIN.	824	1,5,14	
237A		6'-0"	7'-10"	1 3/4"	F	SCWD	HM	01	J6	H9	S13		823			
237B		6'-0"	7'-10"	1 3/4"	F	SCWD	HM	01	J1	H1	S13		811			
238A		3'-0"	7'-0"	1 3/4"	HG	SCWD	HM	05	J5U17	H9	S13		523	1		
238B		3'-0"	7'-0"	1 3/4"	HG											

	DOOR							FRAME				DOOR LABEL FIRE RATING	HARDWARE SET	REMARKS	REV	
	NOMINAL SIZE				SECTIONS											
	DOOR NO.	WIDTH	HEIGHT	THK.	TYPE	MATL.	MATL.	TYPE	JAMB	HEAD	SILL					
M	429	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	510				
	429T	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S3	115				
	430	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	510				
	430T	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S3	115				
	500	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	510				
	501	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	510				
	502	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	510				
	503	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	510				
	504	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	510				
	505E	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S1	811	1.14			
L	506	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	510				
	507	3'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J1	H1	S13	515	11			
	508	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	510				
	509C	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S1	812	1.14			
	510	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	510				
	511	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	S13	515	11			
	512T	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S3	113	1.9			
	513	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	512	1			
	514	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	-	810				
	515	3'-0"	7'-0"	1 3/4"	FG2	SCWD	HM	41	J1/U5	H4	-	510				
K	516	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	510				
	517T	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S3	713	1			
	518T	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S3	713	1			
	519HDF	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S1	811	1.14			
	520	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	510				
	521	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	510				
	522	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	510				
	523	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	510				
	524T	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S3	113	1.9			
	525	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	510				
J	526	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	09	J1/U5	H1	-	510				
	527C	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S1	812	1.14			
	528E	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S1	811	1.14			
	529	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	510				
	529T	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S3	115				
	530	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	510				
	530T	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S3	115				
	531	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	510				
	531T	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S3	115				
	C10A	6'-0"	7'-0"	1 3/4"	FG2	SCWD	HM	04	J5/U8	H3/H4	S2	326	1.2,22		ADD2	
H	C10B	6'-0"	7'-0"	1 3/4"	FG2	SCWD	HM	04	J5/U8	H3/H4	S2	327	1.2,23		ADD2	
	C13	3'-6"	7'-0"	1 3/4"	NV	HM	HM	02D	J15	H15	-	90 MIN.	511	1		
	C14	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	511				
	C15	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	511				
	C16	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	511				
	C20	8'-0"	7'-10"	1 3/4"	NV	HM	HM	01	J16	H16	-	90 MIN.	320	1.2,5,15		
	C21	6'-0"	7'-0"	1 3/4"	FG2	SCWD	HM	10	J1/U5/J7	H2/H3	S2	223	1.13			
	C23A	6'-0"	7'-0"	1 3/4"	FG2	SCWD	HM	14	J5/U7	H2/H3	S2	223	1.13			
	C23B	8'-0"	7'-10"	1 3/4"	NV	HM	HM	01	J18	H17	-	90 MIN.	323	1.2,5		
	C24	6'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J1	H1	-	220	1.13			
G	C26A	6'-0"	7'-10"	1 3/4"	NV	HM	HM	01	J18	H17	-	90 MIN.	323	1.2,5		
	C28B	6'-0"	7'-10"	1 3/4"	NV	HM	HM	01	J18	H17	-	90 MIN.	323	1.2,5		
	C28	8'-0"	7'-10"	1 3/4"	NV	HM	HM	01	J18	H17	-	90 MIN.	323	1.2,5		
	C29	3'-0"	7'-0"	1 3/4"	NV	HM	HM	02C	J15	H15	-	90 MIN.	117	1		
	C30A	6'-0"	7'-0"	1 3/4"	FG2	SCWD	HM	12	J5/U7	H2/H3	S2	223	1.13			
	C30B	8'-0"	7'-10"	1 3/4"	NV	HM	HM	01	J18	H17	-	90 MIN.	323	1.2,5		
	C32A	6'-0"	7'-0"	1 3/4"	FG2	SCWD	HM	12	J5/U7	H2/H3	S2	223	1.13			
	C32B	8'-0"	7'-10"	1 3/4"	NV	HM	HM	01	J18	H17	-	90 MIN.	323	1.2,5		
	C34A	6'-0"	7'-0"	1 3/4"	FG2	SCWD	HM	12	J5/U7	H2/H3	S2	223	1.13			
	C34B	8'-0"	7'-10"	1 3/4"	NV	HM	HM	01	J18	H17	-	90 MIN.	323	1.2,5		
F	C40	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	02A	J1/U5	H1	-	511				
	C41A	6'-0"	7'-0"	1 3/4"	FG2	SCWD	HM	38	J5/U7	H2/H3	S2	223	1.13			
	C41B	6'-0"	7'-0"	1 3/4"	FG2	SCWD	HM	38	J5/U7	H2/H3	S2	223	1.13			
	PH01	3'-0"	7'-0"	1 3/4"	F	HM	HM	01	E11/A419	J11/A419	D9/A443	612	1			
	PH02	3'-0"	7'-0"	1 3/4"	F	HM	HM	01	E11/A419	J11/A419	D9/A443	612	1			
	PH03	3'-0"	7'-0"	1 3/4"	F	HM	HM	01	E11/A419	J11/A419	D9/A443	612	1			
	PH04	3'-0"	7'-0"	1 3/4"	F	HM	HM	01	E11/A419	J11/A419	D9/A443	612	1			
	PH05A	3'-0"	7'-0"	1 3/4"	F	HM	HM	01	A18/A421	E18/A421	D5/A443	612	1			
	PH05B	3'-0"	7'-0"	1 3/4"	F	HM	HM	01	E11/A419	J11/A419	D9/A443	612	1			
	PH05C	3'-0"	7'-0"	1 3/4"	F	HM	HM	01	E11/A419	J11/A419	D9/A443	612	1			
E	PH06A	3'-0"	7'-0"	1 3/4"	F	HM	HM	01	E11/A419	J11/A419	D9/A443	612	1			
	PH06B	3'-0"	7'-0"	1 3/4"	F	HM	HM	01	E11/A419	J11/A419	D9/A443	612	1			
	PH06C	3'-0"	7'-0"	1 3/4"	F	HM	HM	01	E11/A419	J11/A419	D9/A443	612	1			
	PH06D	6'-0"	7'-0"	1 3/4"	F	HM	HM	01	J1	H1	-					ADD2
	ST01A	6'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J1	H7	-	60 MIN.	321	1.2,5,14		
	ST01B	6'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J1	H7	-	60 MIN.	321	1.2,5,14		
	ST02A	8'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J1	H7	-	60 MIN.	321	1.2,5,14		
	ST02B	8'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J1	H7	-	60 MIN.	321	1.2,5,14		
	ST02C	3'-9 1/2"	7'-10 1/2"	1 1/4"	F	-	-	-	-	-	-	1000	29			ADD2
	ST02D	3'-6"	7'-0"	1 3/4"	F	HM	HM	01	J1	H7	-	60 MIN.	321	1.2,5,14		
D	ST03A	6'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J1	H7	-	60 MIN.	321	1.2,5,14		
	ST03B	6'-0"	7'-0"	1 3/4"	NV	SCWD	HM	01	J1	H7	-	60 MIN.	321	1.2,5,14		
	ST04	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S1	60 MIN.	815	1.14,23		
	ST05	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S1	60 MIN.	815	1.14,23		
	ST06	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S1	60 MIN.	815	1.14,23		
	ST07	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S1	60 MIN.	815	1.14,23		
	ST08	3'-0"	7'-0"	1 3/4"	F	SCWD	HM	01	J1	H1	S1	60 MIN.	815	1.14,23		
	X01	6'-0"	7'-0"	1 3/4"	FG2	ALUM	ALUM	SF57	E18/A416, E18/A417	E18/A417	A18/A418	447	1.2,23			
	X02	6'-0"	7'-0"	1 3/4"	FG2	ALUM	ALUM	SF56	K18/A417, E18/A417	E18/A417	A18/A418	441	1.2,4,23			
	C	X03	6'-0"	7'-0"	1 3/4"	FG2	ALUM	ALUM	SF56	J18/A418, E18/A417	E18/A417	A18/A418	442	1.2,22,28		
X04		4'-6"	7'-0"	1 3/4"	FG2	ALUM	ALUM	SF43	F13/A415	J6/A416, E18/A417	A13/A415	446	1.2,18,23			
X05		6'-0"	7'-0"	1 3/4"	FG2	ALUM	ALUM	SF53	E18/A416, E18/A417	E18/A417	A18/A418	447	1.2,23			
X06		3'-0"	7'-0"	1 3/4"	HG	ALUM	ALUM	SF41A	E6/A418, E13/A419, E18/A417	J6/A418, E13/A419, E18/A417	A12/A418	430	1.2,23,27			
X07		3'-0"	7'-0"	1 3/4"	HG	ALUM	ALUM	SF42A	E6/A418, E13/A419, E18/A417	J6/A418, E13/A419, E18/A417	A12/A418	430	1.2,23,27			
X08		3'-0"	7'-0"	1 3/4"	HG	ALUM	ALUM	SF41A	E6/A418, E13/A419, E18/A417	J6/A418, E13/A419, E18/A417	A12/A418	430	1.2,23,27			
X09		3'-0"	7'-0"	1 3/4"	HG	ALUM	ALUM	SF42A	E6/A418, E13/A419, E18/A417	J6/A418, E13/A419, E18/A417	A12/A418	430	1.2,23,27			
X10		6'-0"	7'-0"	1 3/4"	FG2	ALUM	ALUM	SF55	E18/A416, J12/A418, E18/A417	E18/A416, J12/A418, E18/A417	A18/A418	447	1.2,23			
X11		3'-0"	7'-0"	1 3/4"	HG	ALUM	ALUM	SF42A	E6/A418, E13/A418, E18/A417	J6/A418, E13/A418, E18/A417	A12/A418	430	1.2,23,27			
X12		3'-0"	7'-0"	1 3/4"	HG	ALUM	ALUM	SF41A	E6/A418, E13/A418, E18/A417	J6/A418, E13/A418, E18/A417						



STOREFRONT AND CURTAIN WALL NOTES

NOTES APPLY TO ALL FRAME ELEVATION SHEETS

1. VERIFY ROUGH OPENINGS, INCLUDING BUT NOT LIMITED TO STRUCTURAL LINTEL LOCATIONS, PRIOR TO FABRICATION.
2. COORDINATE REQUIRED TOLERANCES IN ALL DIMENSIONS NEEDED TO MANUFACTURE AND INSTALL WINDOWS, STOREFRONT AND CURTAIN WALL, INCLUDING SUBFRAMES, AS REQUIRED.
3. CONTINUOUSLY SEAL ALL SIDES OF STOREFRONT AND SUBFRAMES ABUTTING DISSIMILAR MATERIALS AT JAMBS, HEADS, AND SILLS, TYPICALLY.
4. PROVIDE APPROPRIATE ANCHORAGE SYSTEM FOR ALL CONDITIONS. PROVIDE SUBFRAMING AS SHOWN ON DETAILS OR SPECIFIED.
5. PROVIDE FOR THERMAL EXPANSION AT ALL FRAMING SYSTEMS.
6. COORDINATE FRAMES WITH PLAN WHEN MORE THAN ONE CONSTRUCTION DETAIL IS REFERENCED.
7. AS REQUIRED FOR DESIGN LOADING, MANUFACTURER TO PROVIDE MULLION REINFORCING AND VERTICAL EXTENSIONS UP TO STRUCTURE ABOVE (ATTACHMENT TO STRUCTURE BY MANUFACTURER). SEE SECTIONS AND DETAILS FOR ADDITIONAL WORK RELATING TO FRAMING SYSTEM.
8. IDENTIFICATION OF OPENING TYPES AS CURTAIN WALL OR STOREFRONT IS BASED ON SYSTEM REQUIREMENTS OF A PARTICULAR MANUFACTURER. CONTRACTOR IS TO DETERMINE BEST APPLICATION OF SUBMITTED MANUFACTURER AND SYSTEM BASED ON PERFORMANCE REQUIREMENTS, SIZE OF OPENING, AND INSTALLATION CONDITION.
9. CONTRACTOR TO COORDINATE REQUIRED TOLERANCES IN ALL DIMENSIONS NEEDED TO MANUFACTURE AND INSTALL STOREFRONT, INCLUDING SUBFRAMES, AS REQUIRED. CONTRACTOR MUST VERIFY ACTUAL DIMENSIONS IN THE FIELD WITH THOSE SHOWN ON ALL DRAWINGS, INCLUDING DETAILS SHOWN ON OTHER SHEETS, PRIOR TO FABRICATION.
10. PROVIDE MANUAL TRANSLUCENT ROLLER SHADES AT ALL INTERIOR AND EXTERIOR OPENINGS INCLUDING DOOR SIDELITES AND TRANSOMS, BUT EXCLUDING DOOR LITES UNLESS OTHERWISE NOTED.
11. COORDINATE FRAMING SYSTEMS WITH AIR BARRIER TRANSITION MEMBRANE SYSTEM AND MANUFACTURER. RECOMMENDED DETAILS FOR A COMPLETE AIR BARRIER SYSTEM.

HOLLOW METAL FRAME NOTES

1. VERIFY ALL ROUGH OPENINGS WITH HOLLOW METAL FRAME SIZES.
2. CONTRACTOR TO COORDINATE REQUIRED TOLERANCES IN ALL DIMENSIONS NEEDED TO MANUFACTURE AND INSTALL HOLLOW METAL FRAMES. VERIFY ACTUAL DIMENSIONS IN THE FIELD WITH THOSE SHOWN ON ALL DRAWINGS, INCLUDING DETAILS SHOWN ON OTHER SHEETS.
3. CONTINUOUSLY SEAL ALL SIDES OF HOLLOW METAL FRAMES ABUTTING DISSIMILAR MATERIALS AT JAMBS, HEADS, AND SILLS, TYPICALLY (EXCEPT AT DOOR SILLS UNLESS OTHERWISE NOTED).
4. TYPICAL WIDTH OF RETURNS ON HOLLOW METAL FRAMES IS 1 1/8" AT HEADS, JAMBS, AND SILLS. CENTER SECTION OF FRAME VARIES IN WIDTH WITH RESPECTIVE WALL TYPE. SEE PLANS.
5. PROVIDE MANUAL TRANSLUCENT ROLLER SHADES AT ALL INTERIOR AND EXTERIOR OPENINGS INCLUDING DOOR SIDELITES, BUT EXCLUDING DOOR LITES AND TRANSOMS UNLESS OTHERWISE NOTED.

GLASS TYPE KEY

- G-1 1/4" CLEAR ANNEALED FLOAT GLASS
- G-2 1/4" CLEAR FULLY TEMPERED SAFETY GLASS
- G-3 1/4" CLEAR HEAT STRENGTHENED LAMINATED SAFETY GLASS
- G-4 5/16" FIRE PROTECTIVE RATED GLASS
- G-5 1" INSULATING GLASS, CONSISTING OF:
 - 1/4" CLEAR TEMPERED SAFETY GLASS, EXTERIOR LITE WITH LOW E COATING
 - 1/2" AIR SPACE, AND
 - 1/4" CLEAR TEMPERED SAFETY GLASS
- G-6 1" INSULATING GLASS, CONSISTING OF:
 - 1/4" CLEAR TEMPERED SAFETY GLASS, EXTERIOR LITE WITH LOW E COATING
 - 1/2" AIR SPACE, AND
 - 3/8" SECURITY GLAZING
- G-7 1" INSULATING GLASS, SPANDREL UNIT CONSISTING OF:
 - 1/4" CLEAR GLASS, EXTERIOR LITE WITH LOW E COATING
 - 1/2" AIR SPACE, AND
 - 1/4" HEAT STRENGTHENED OPAQUE LAMINATED GLASS INTERIOR LITE
- G-8 1" INSULATING GLASS, CONSISTING OF:
 - 1/4" CLEAR TEMPERED SAFETY GLASS, EXTERIOR LITE WITH LOW E COATING
 - 1/2" AIR SPACE, AND
 - 5/16" LAMINATED GLASS WITH TRANSLUCENT WHITE, 030 P9B INTERLAYER
- G-9 1" INSULATING GLASS, CONSISTING OF:
 - 1/4" CLEAR TEMPERED SAFETY GLASS, EXTERIOR LITE WITH LOW E COATING
 - 1/2" AIR SPACE, AND
 - 1/4" CLEAR TEMPERED SAFETY GLASS WITH 60% FRIT, 1/8" HOLES

NUMBERED REMARKS

- NOTE 1: PROVIDE NO ROLLER SHADES AT THIS FRAME OPENING
- NOTE 2: PROVIDE ELECTRIC TRANSLUCENT ROLLER SHADES AT THIS FRAME OPENING.
- NOTE 3: PROVIDE BOTH TRANSLUCENT AND BLACK-OUT SHADES AT THIS FRAME OPENING. BOTH ARE ELECTRICALLY OPERATED.
- NOTE 4: PROVIDE BOTH TRANSLUCENT AND BLACK-OUT SHADES AT THIS FRAME OPENING. BOTH ARE MANUALLY OPERATED.
- NOTE 5: PROVIDE WINDOW FILM (FLM) AT PANELS SHOWN.
- NOTE 6: PROVIDE ELECTRIC BLACK-OUT SHADES AT THIS FRAME OPENING.

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Tel: 301.595.1000



GP #22419
PSC #12IF064

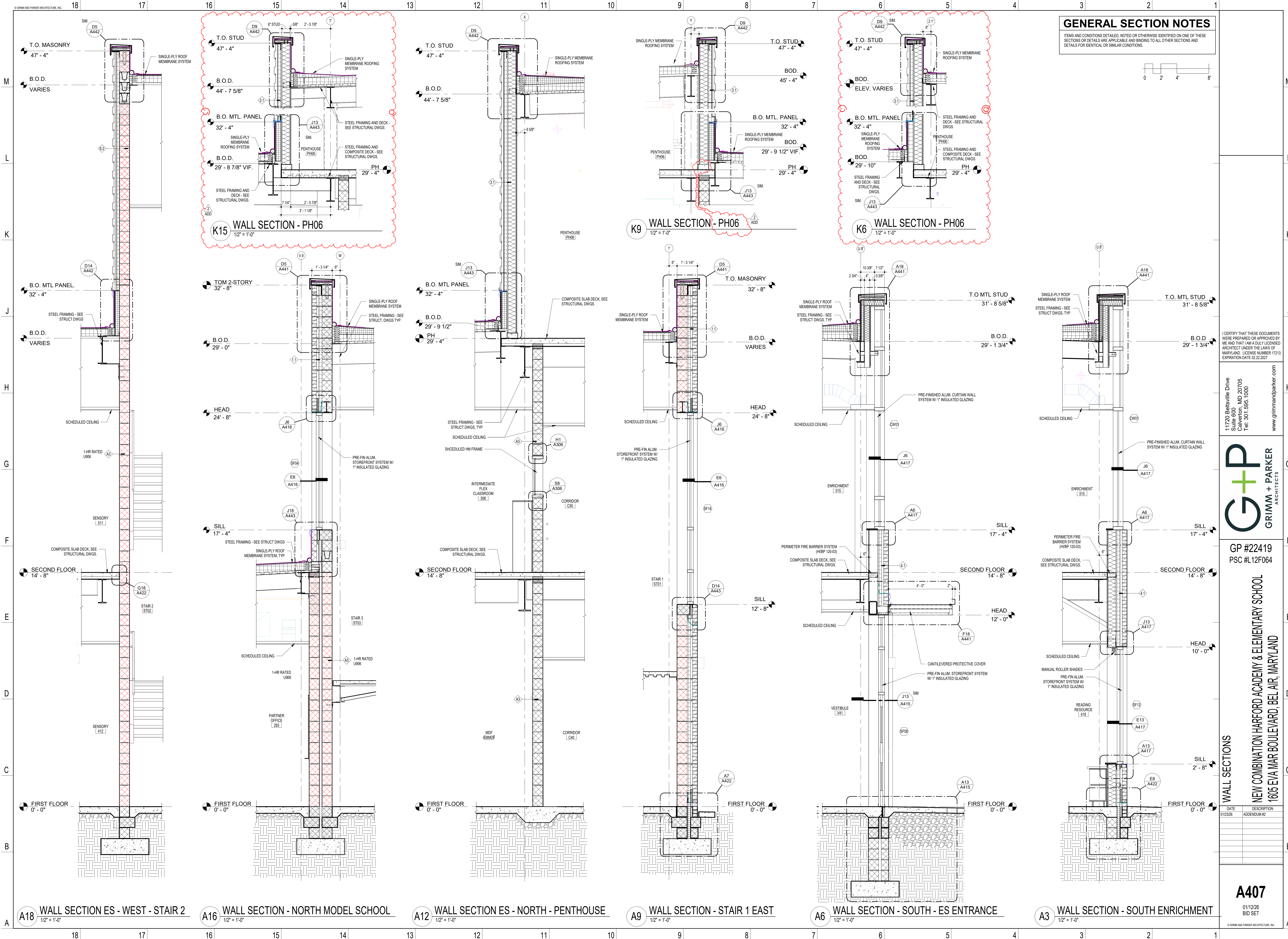
FRAME ELEVATIONS
NEW COMBINATION HARFORD ACADEMY & ELEMENTARY SCHOOL
1608 EVA MAR BOULEVARD, BEL AIR, MARYLAND

DATE	DESCRIPTION
01/23/26	ADDENDUM #2

A308

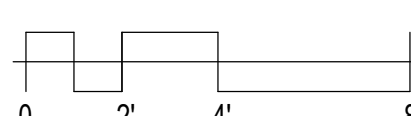
01/12/26
BID SET

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GENERAL SECTION NOTES

ITEMS AND CONDITIONS DETAILED, NOTED OR OTHERWISE IDENTIFIED ON ONE OF THESE SECTIONS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER SECTIONS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.



I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF MARYLAND. LICENSE NUMBER 17213. EXPIRATION DATE 02/22/2027

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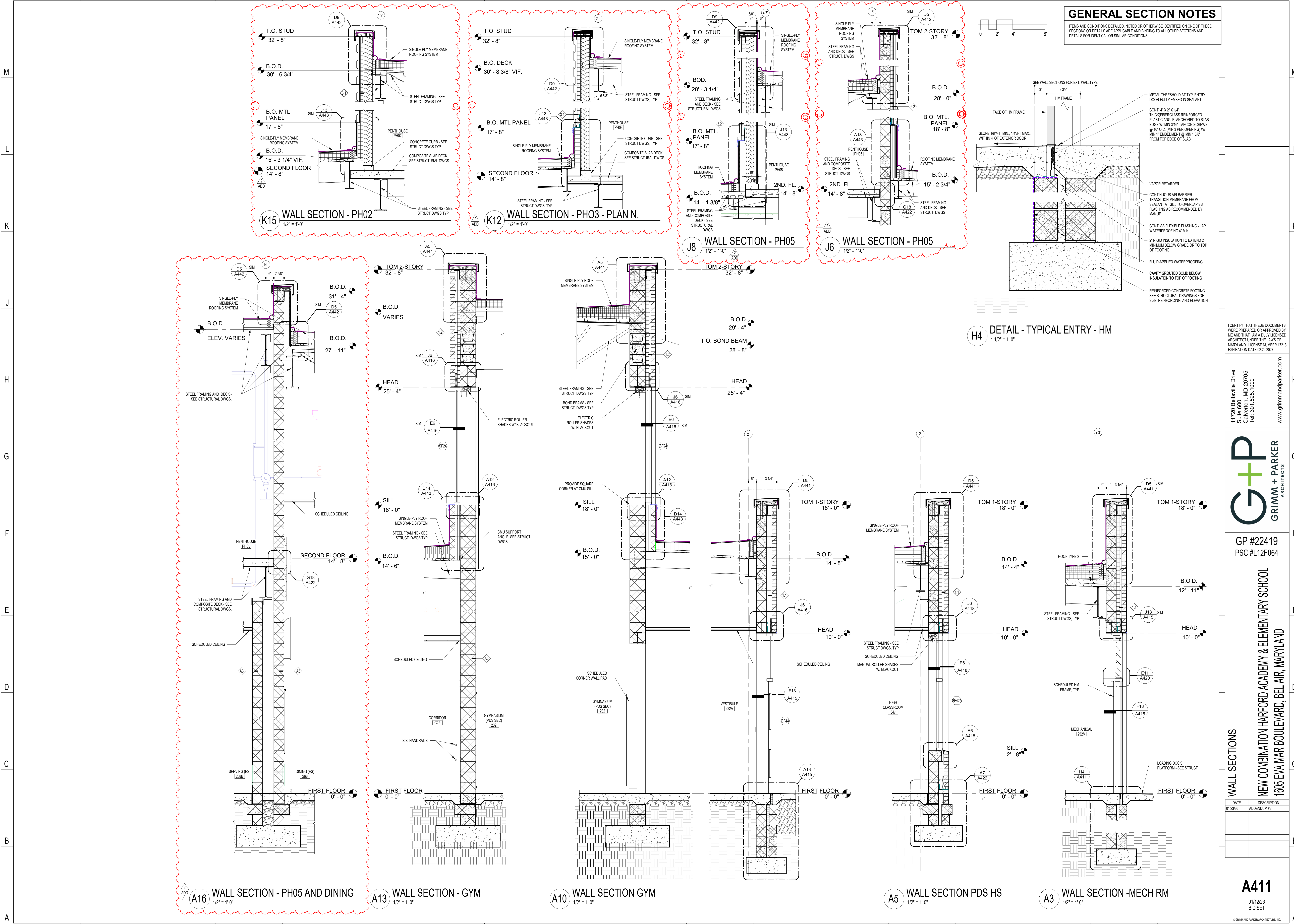


GP #22419
PSC #L12F064

WALL SECTIONS
NEW COMBINATION HARFORD ACADEMY & ELEMENTARY SCHOOL
1608 EVA MAR BOULEVARD, BEL AIR, MARYLAND

DATE	DESCRIPTION
01/23/26	ADDENDUM #2

A407
01/12/26
BID SET



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ARCHITECTS

GP #22419
PSC #L12F064

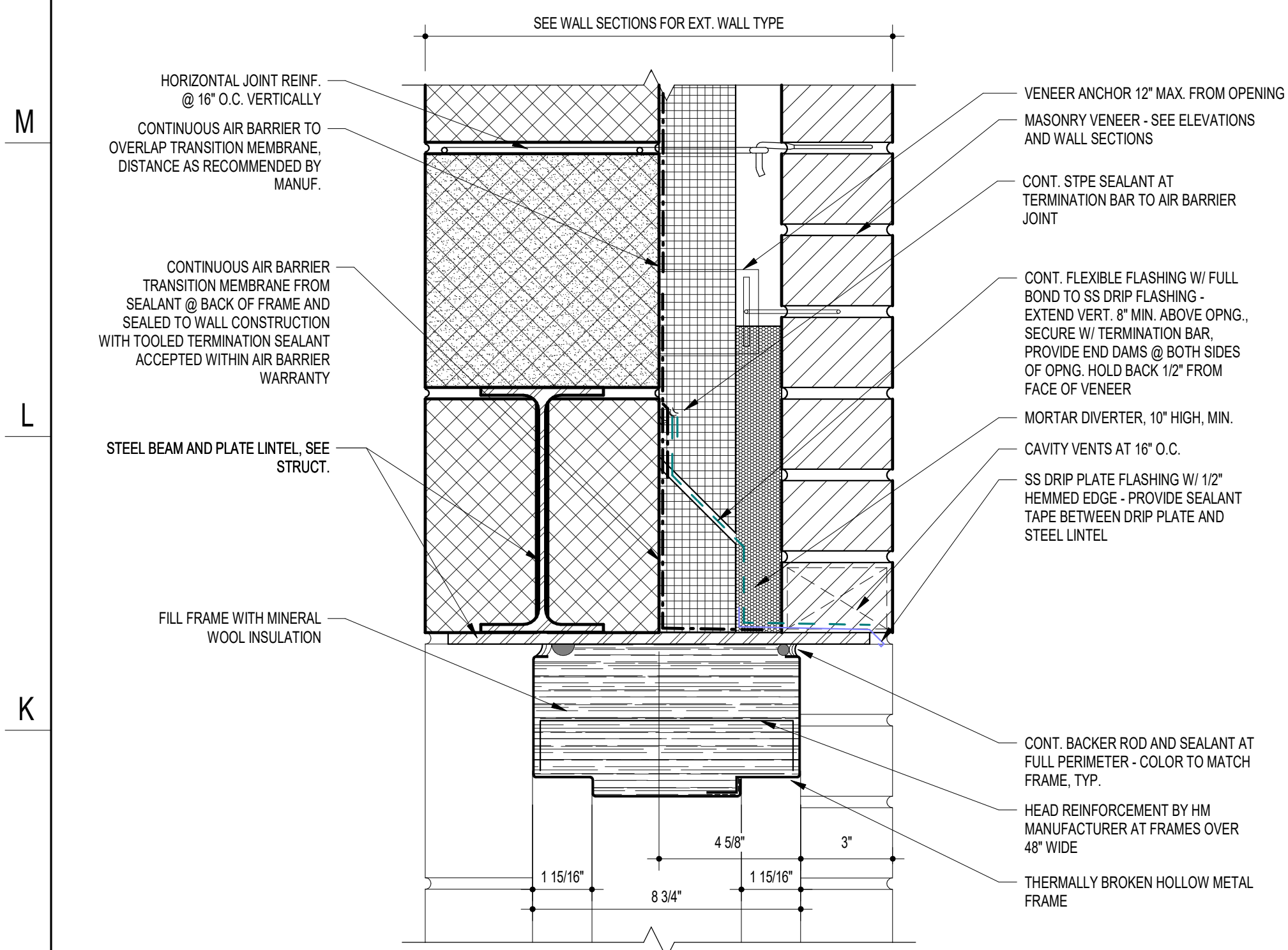
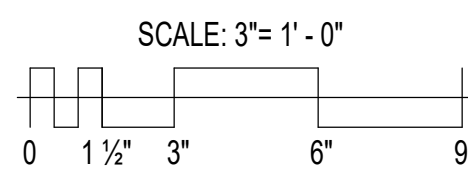
NEW COMBINATION HARFORD ACADEMY & ELEMENTARY SCHOOL
1605 EVA MAR BOULEVARD, BEL AIR, MARYLAND

WALL SECTIONS

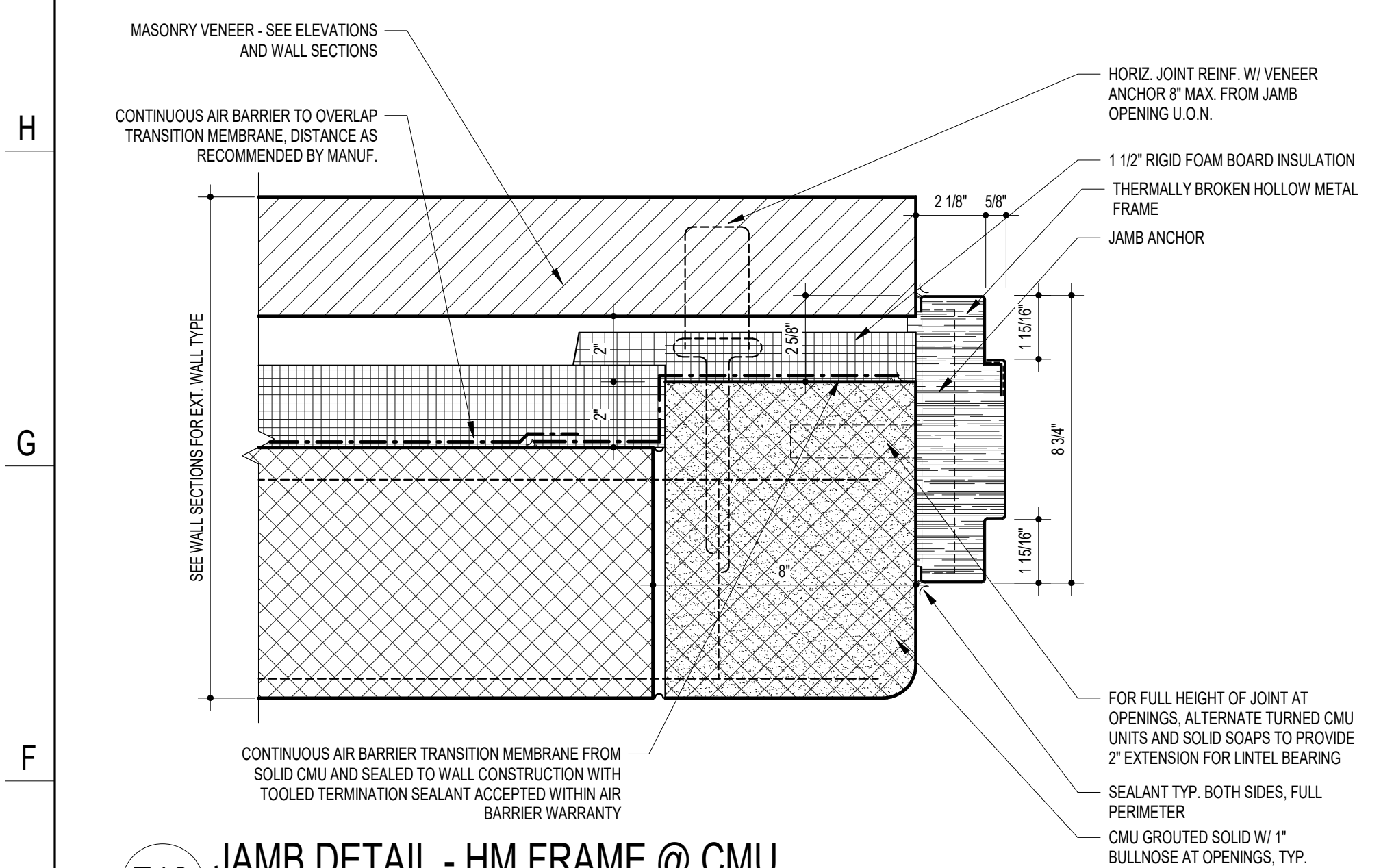
DATE	DESCRIPTION
01/23/26	ADDENDUM #2

A411
01/12/26
BID SET

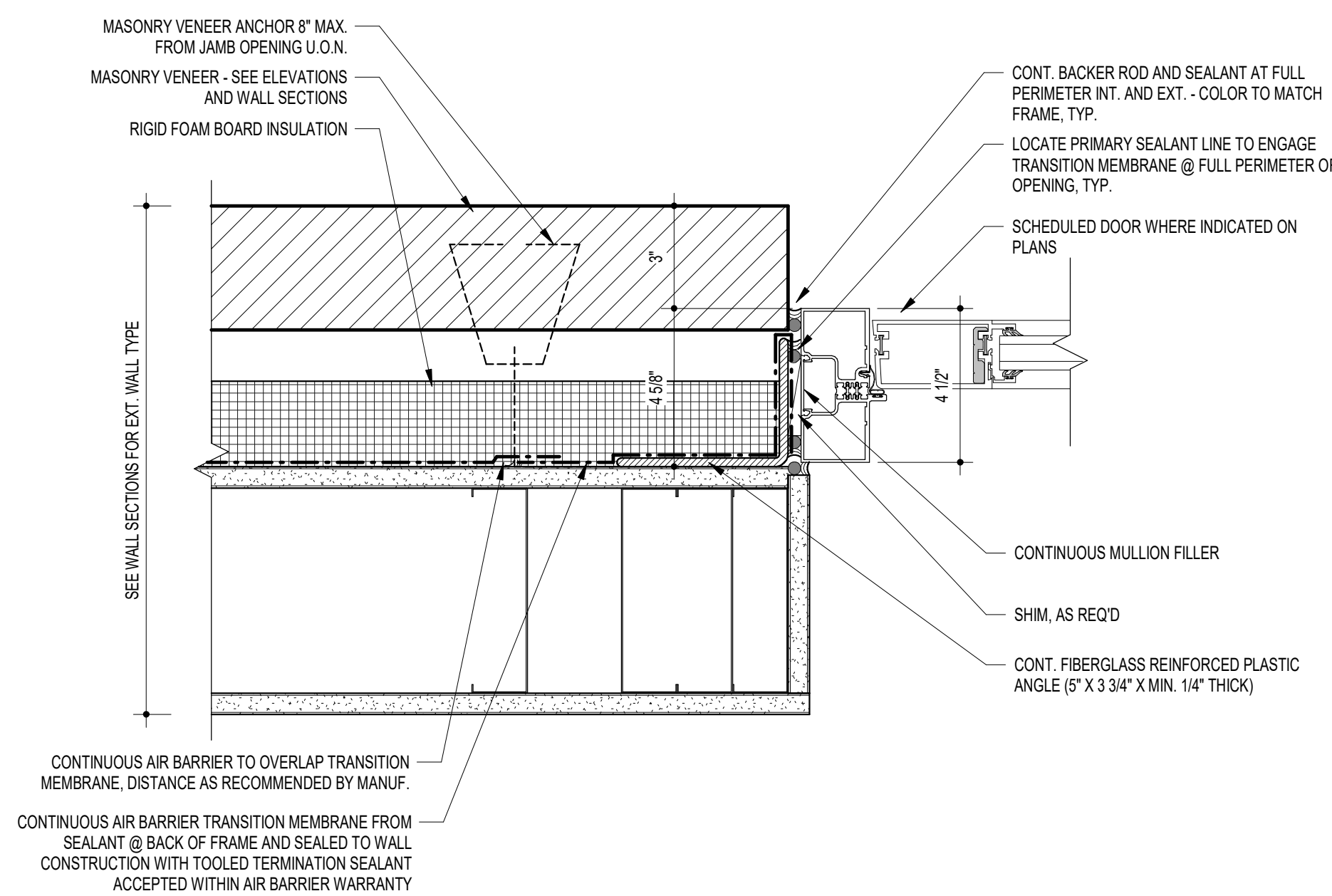
© GRIMM AND PARKER ARCHITECTURE, INC.



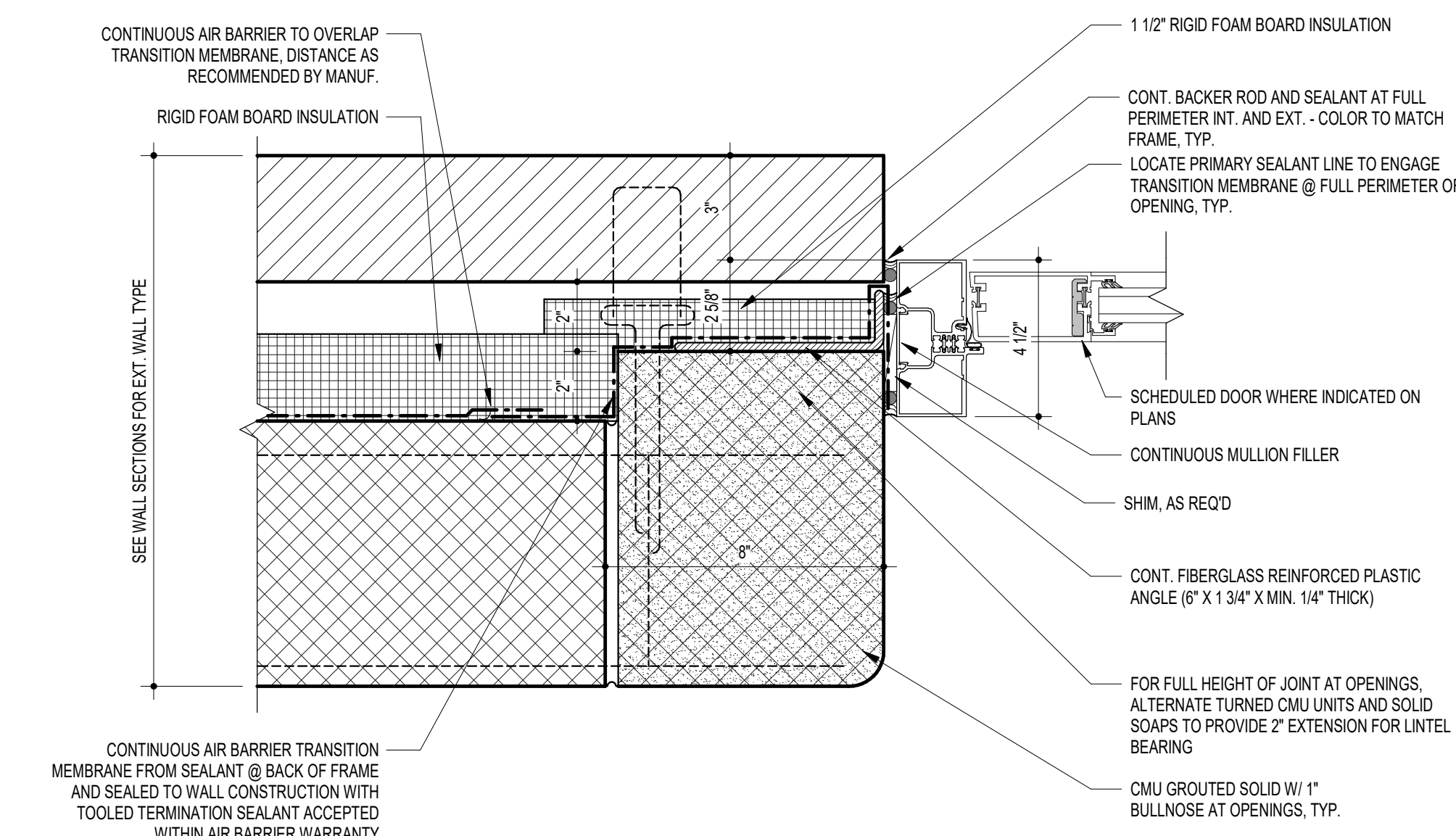
J18 HEAD DETAIL - HM FRAME @ CMU
3" = 1'-0"



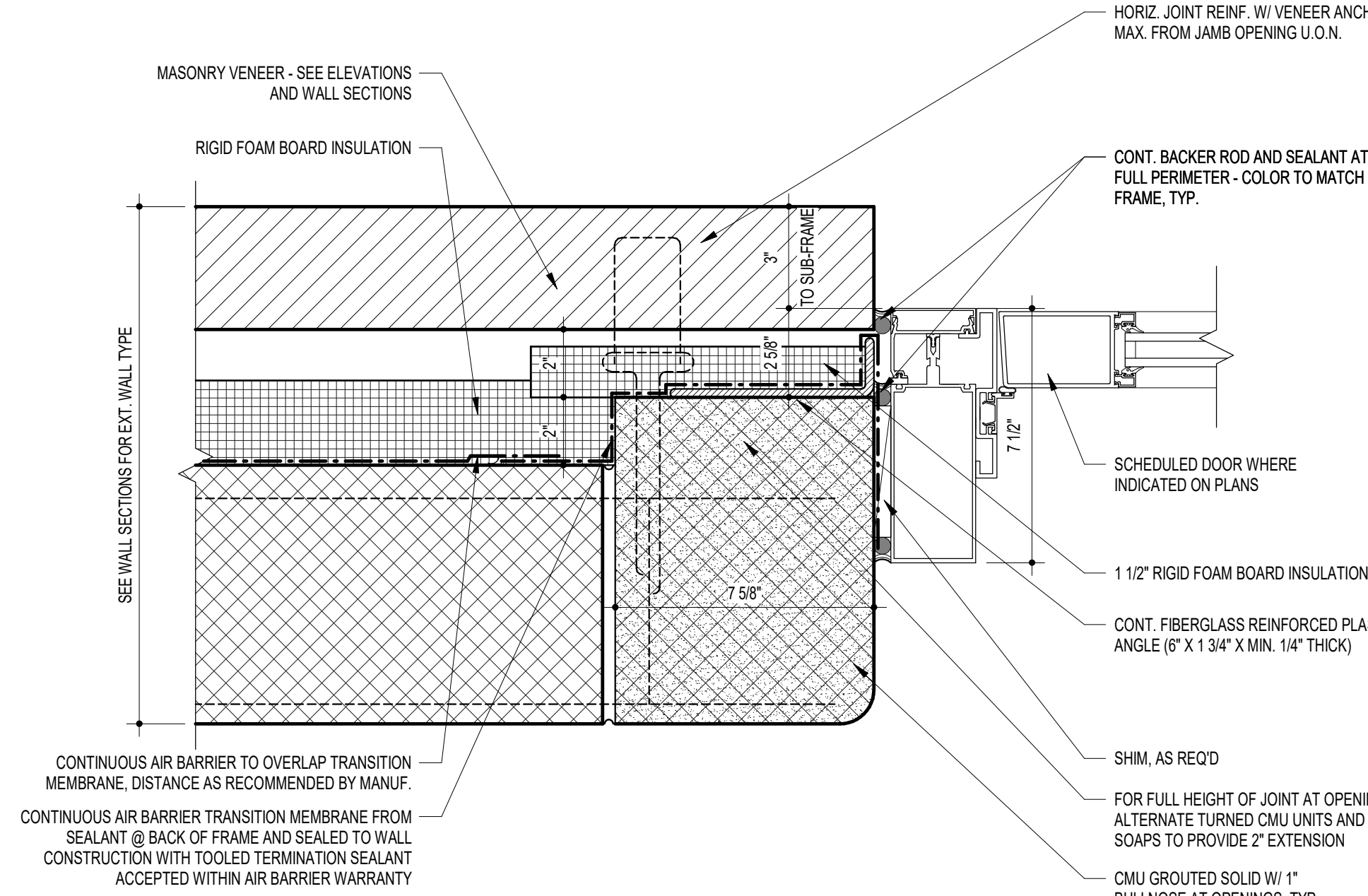
F18 JAMB DETAIL - HM FRAME @ CMU
3" = 1'-0"



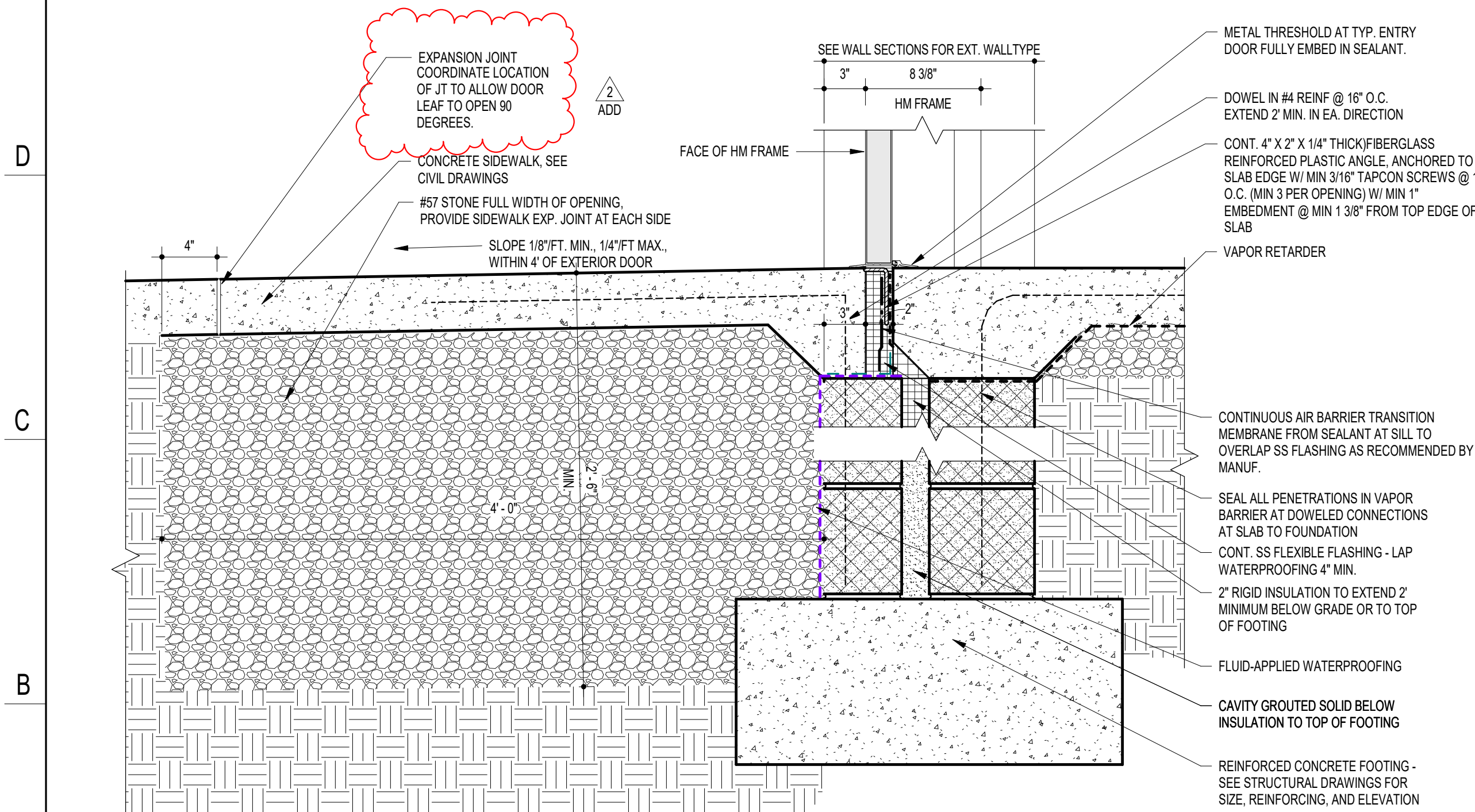
J13 JAMB DETAIL - STOREFRONT @ MTL STUDS
3" = 1'-0"



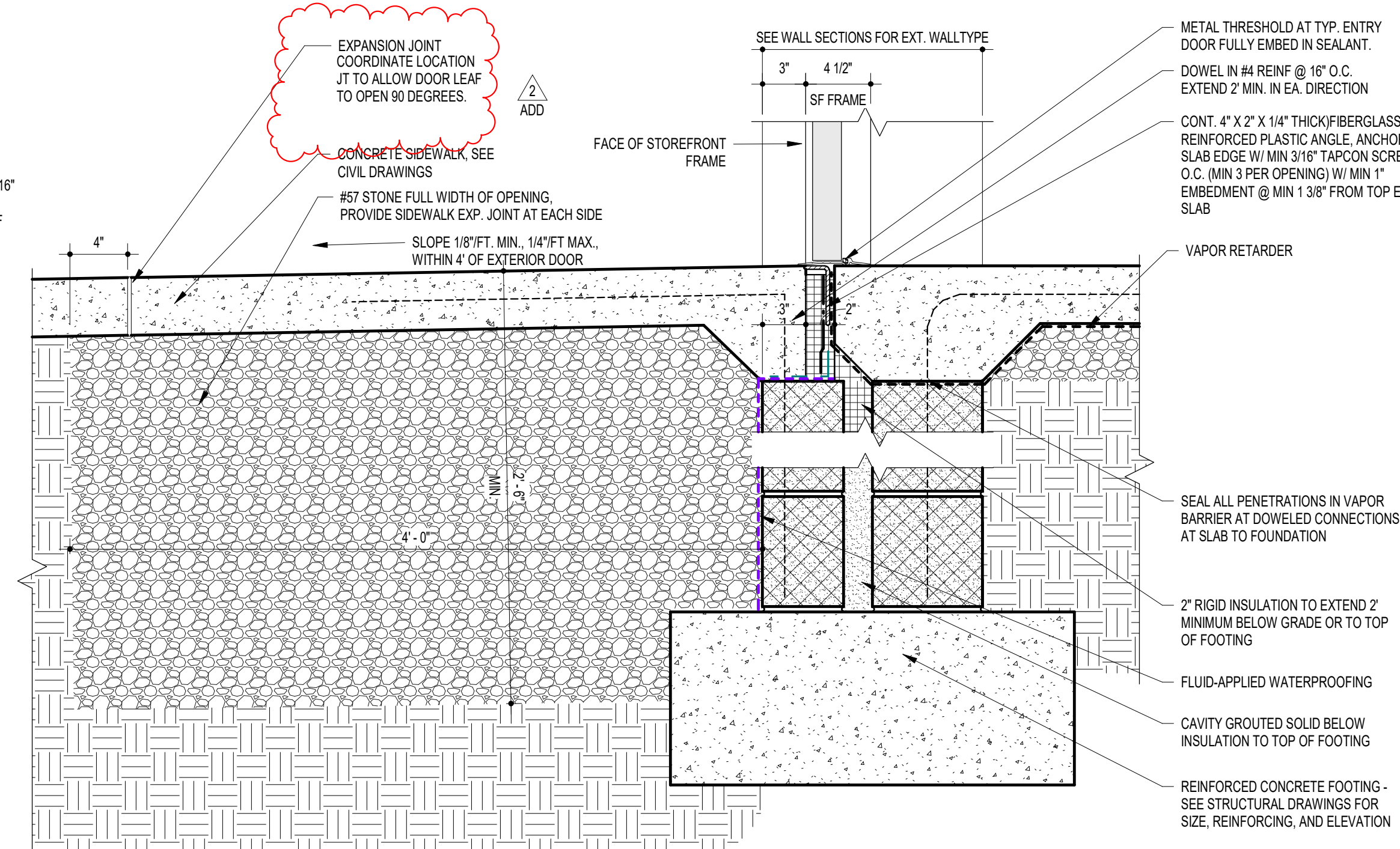
F13 JAMB DETAIL - SF DOOR @ CMU
3" = 1'-0"



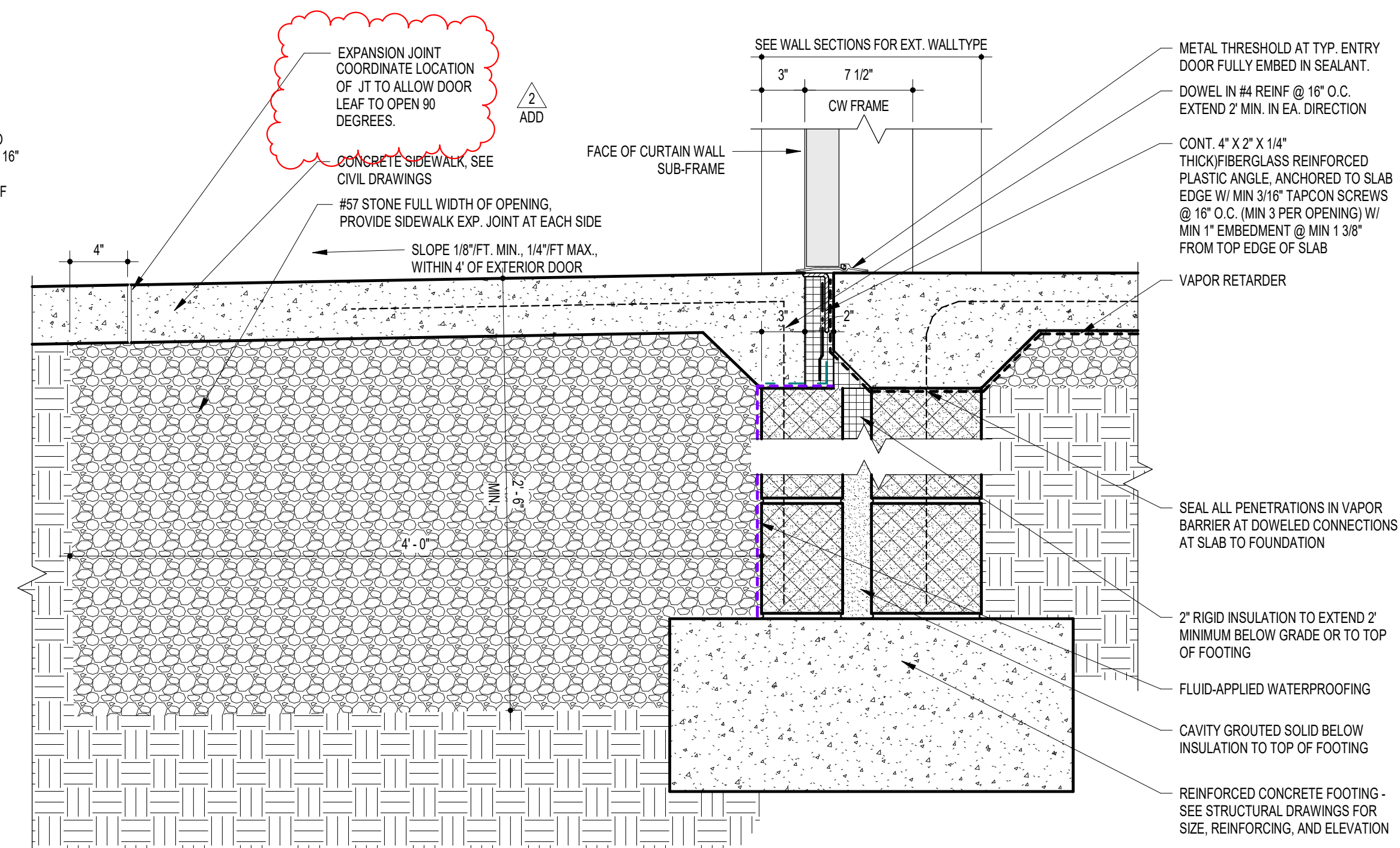
F7 JAMB DETAIL - CW DOOR @ CMU ALT.
3" = 1'-0"



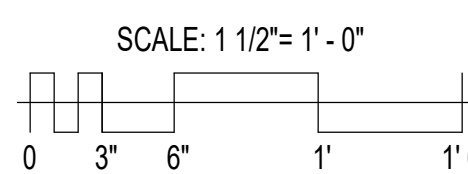
A18 DETAIL - TYPICAL ENTRY - HM
1 1/2" = 1'-0"



A13 DETAIL - TYPICAL ENTRY - SF
1 1/2" = 1'-0"



A7 DETAIL - TYPICAL ENTRY - CW
1 1/2" = 1'-0"



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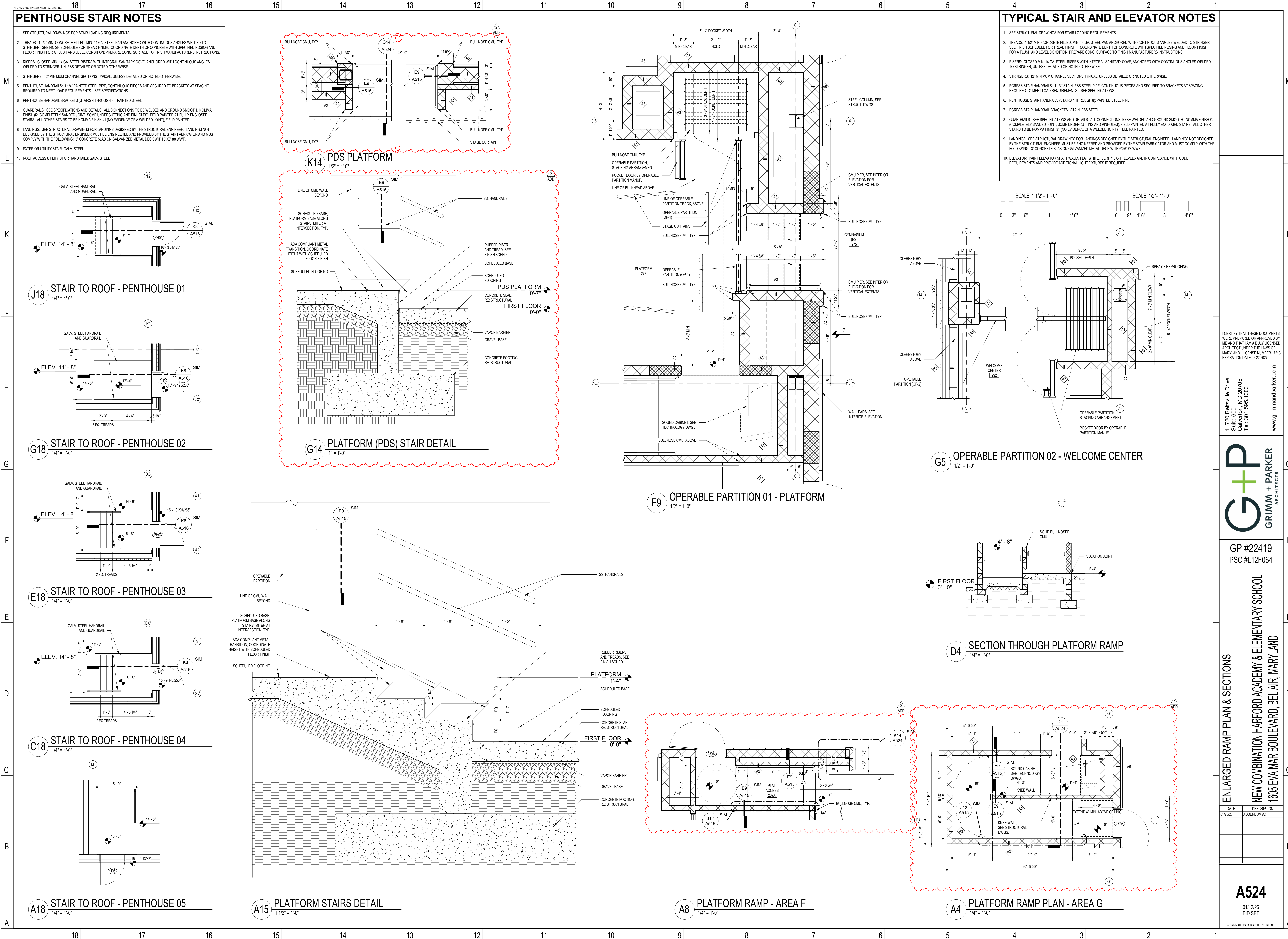
GP #22419
PSC #12F064

EXTERIOR DOOR DETAILS
NEW COMBINATION HARFORD ACADEMY & ELEMENTARY SCHOOL
1608 EVA MAR BOULEVARD, BEL AIR, MARYLAND

DATE: 01/23/26
DESCRIPTION: ADDENDUM #2

A415

01/12/26
BID SET



I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF MARYLAND. LICENSE NUMBER 17213. EXPIRATION DATE 02.22.2027

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GP #22419
PSC #L12F064

ENLARGED RAMP PLAN & SECTIONS
NEW COMBINATION HARFORD ACADEMY & ELEMENTARY SCHOOL
1608 EVA MAR BOULEVARD, BEL AIR, MARYLAND

DATE	DESCRIPTION
01/23/26	ADDENDUM #2

A524
01/12/26
BID SET

M

L

K

J

H

G

F

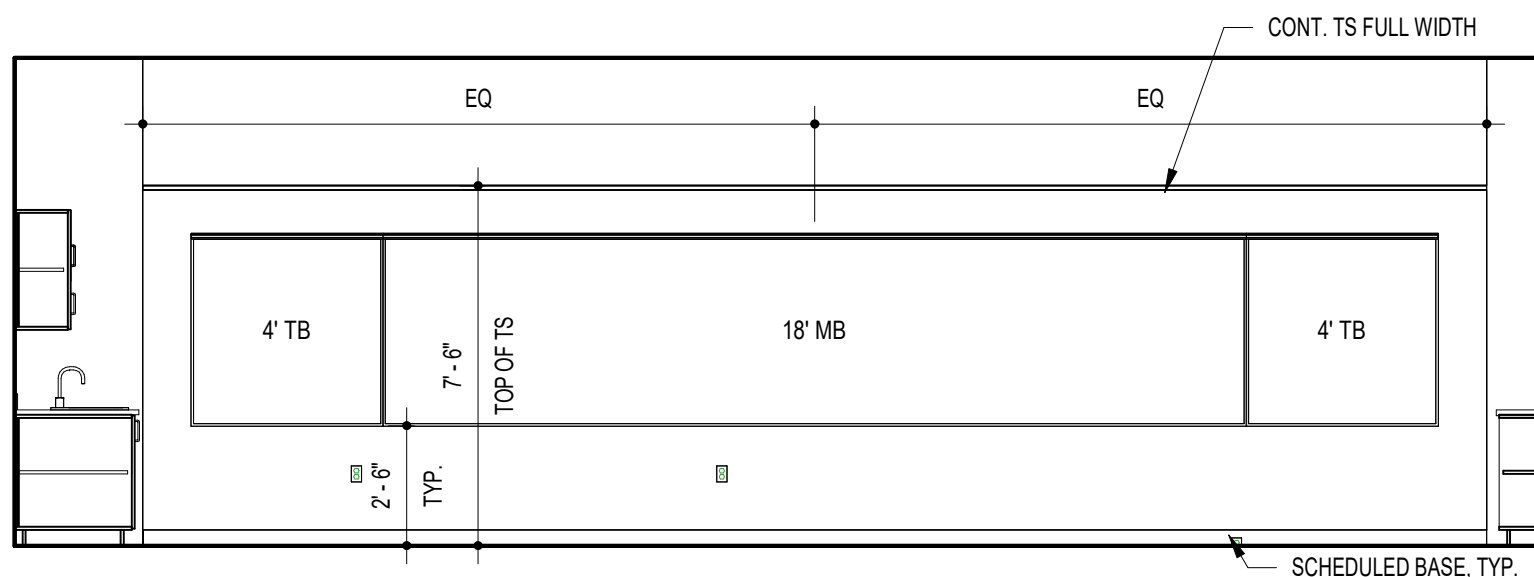
E

D

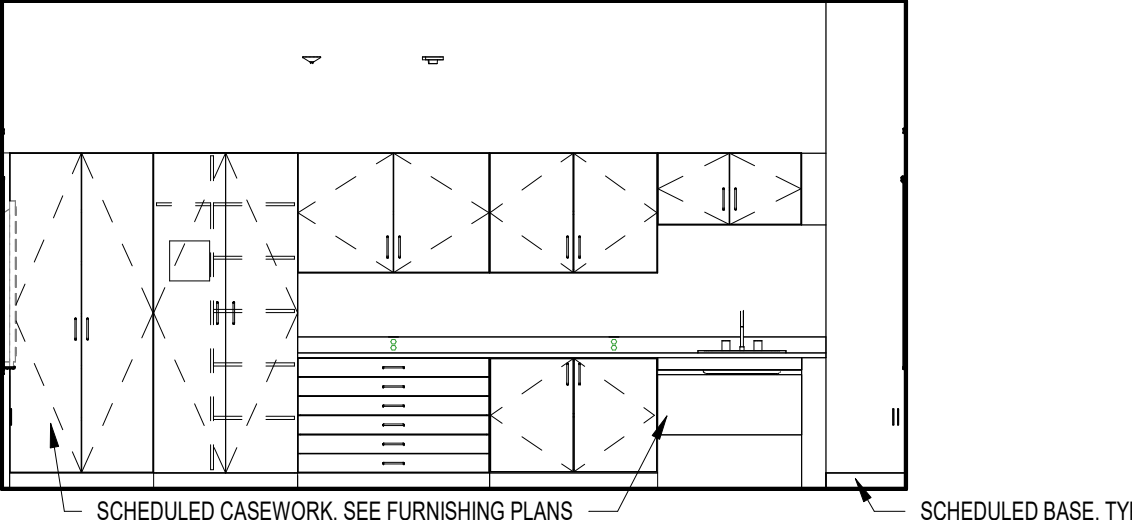
C

B

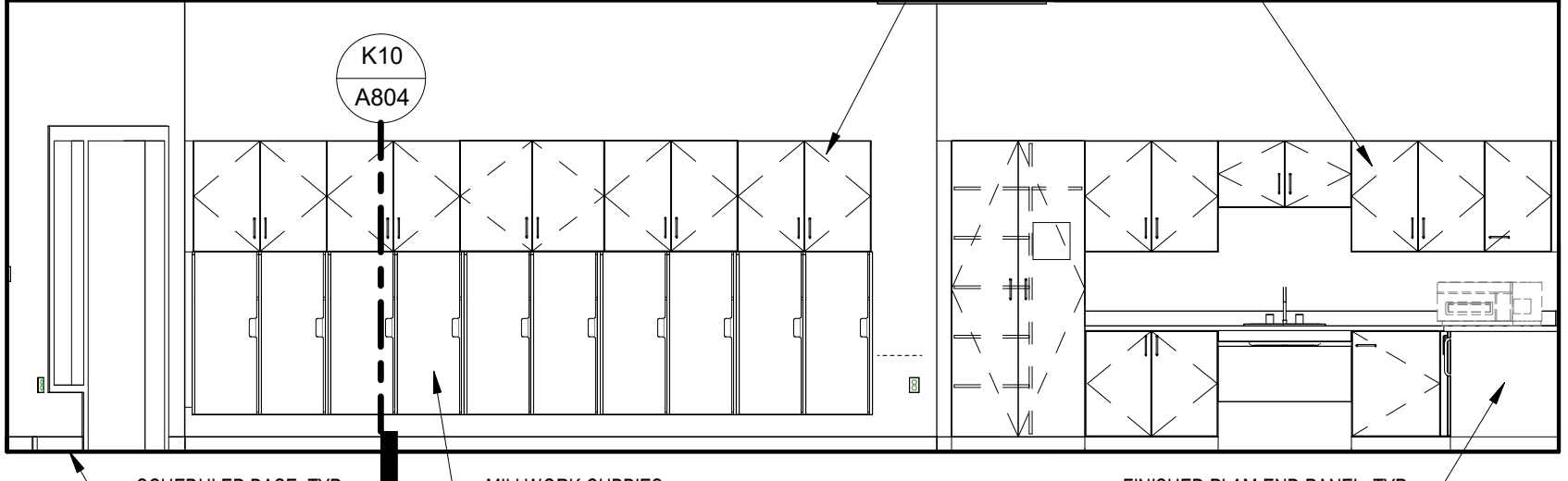
A



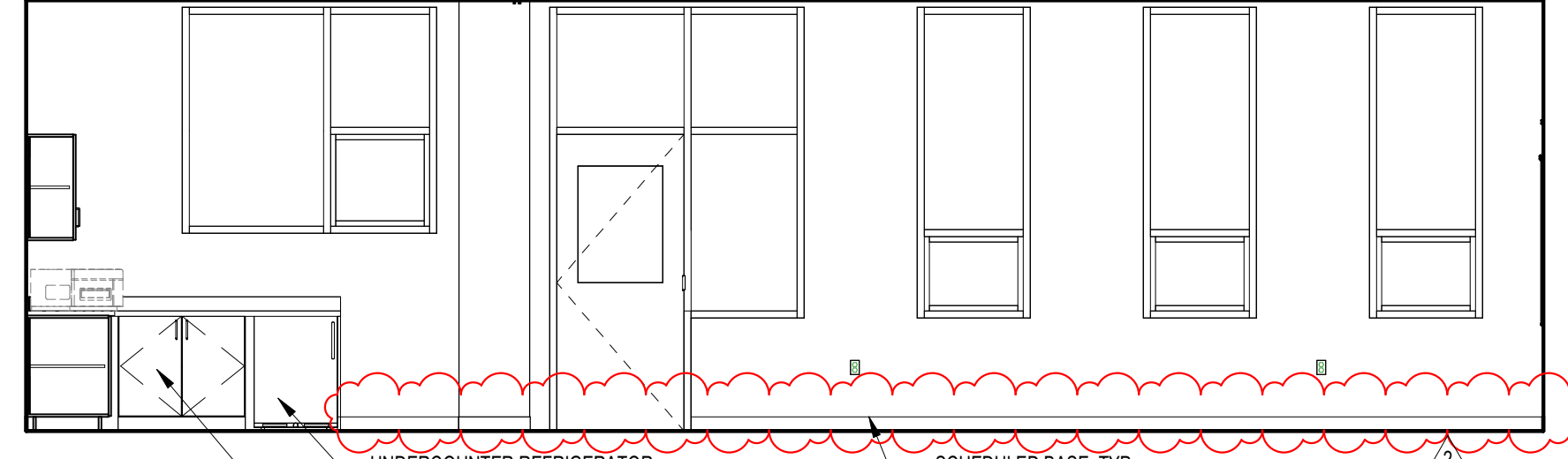
L18 INTERIOR ELEV. - MATH RESOURCE 523 - A
1/4" = 1'-0"



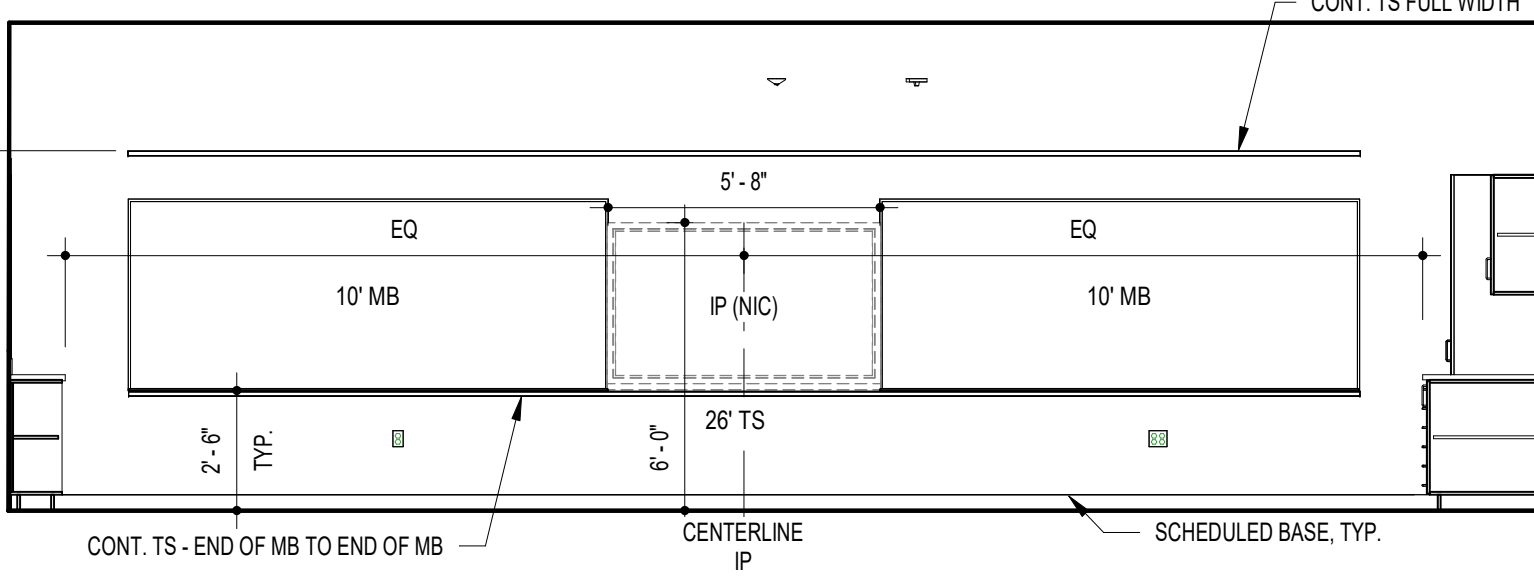
L14 INTERIOR ELEV. - MATH RESOURCE 523 - D
1/4" = 1'-0"



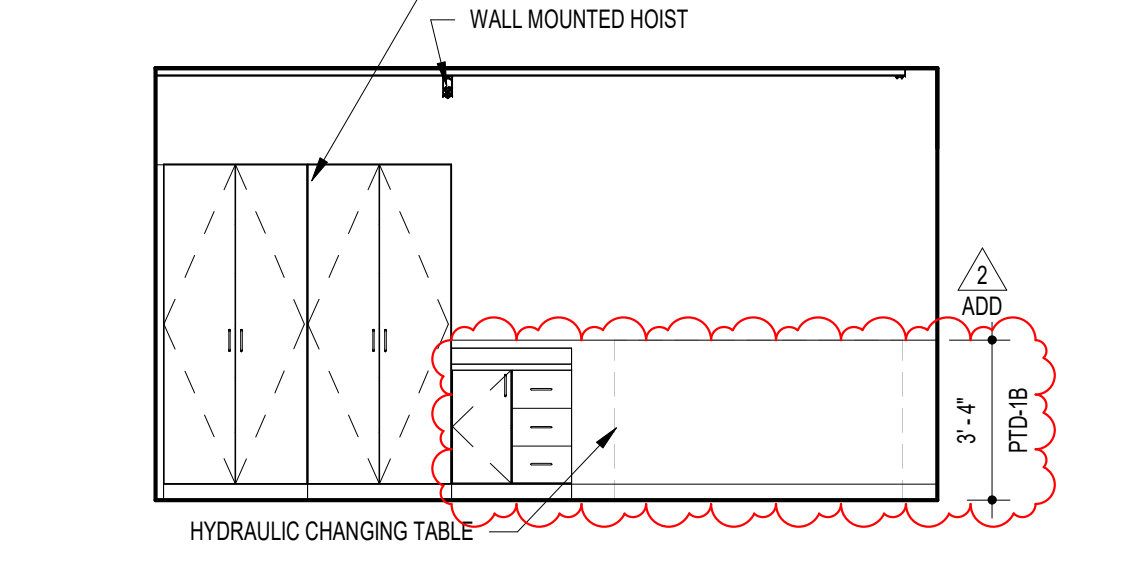
L10 TYPICAL PDS REAR WALL
1/4" = 1'-0"



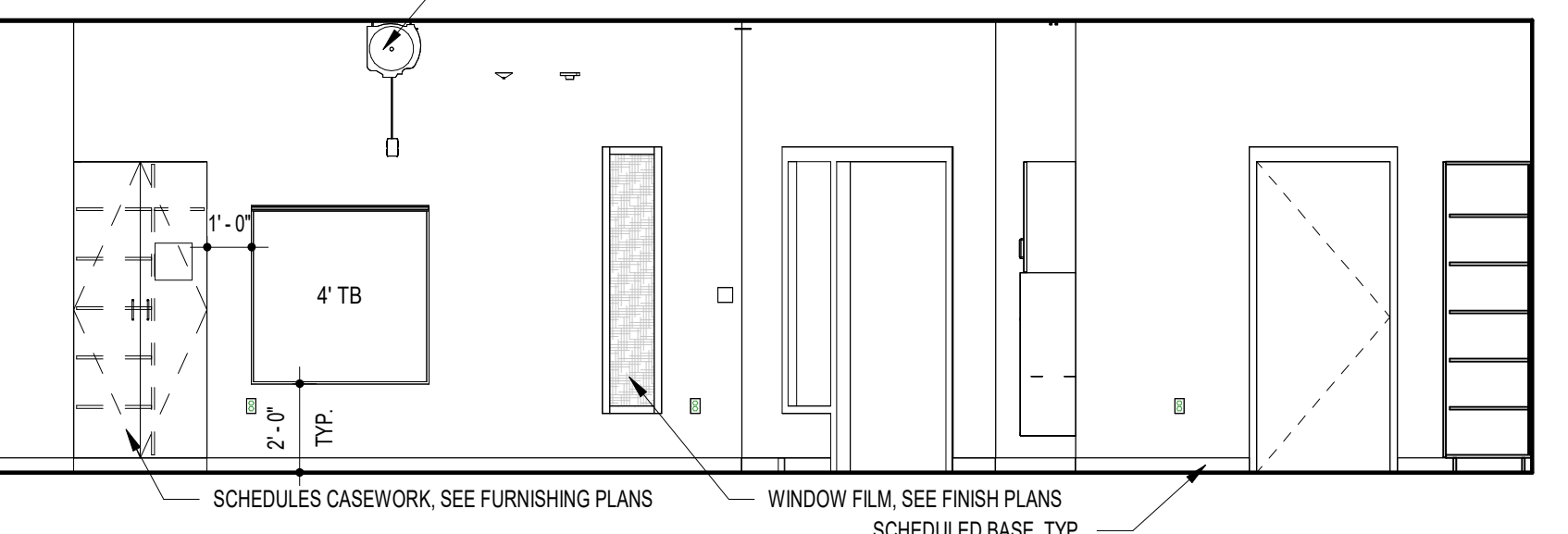
L5 TYPICAL PDS WINDOW WALL
1/4" = 1'-0"



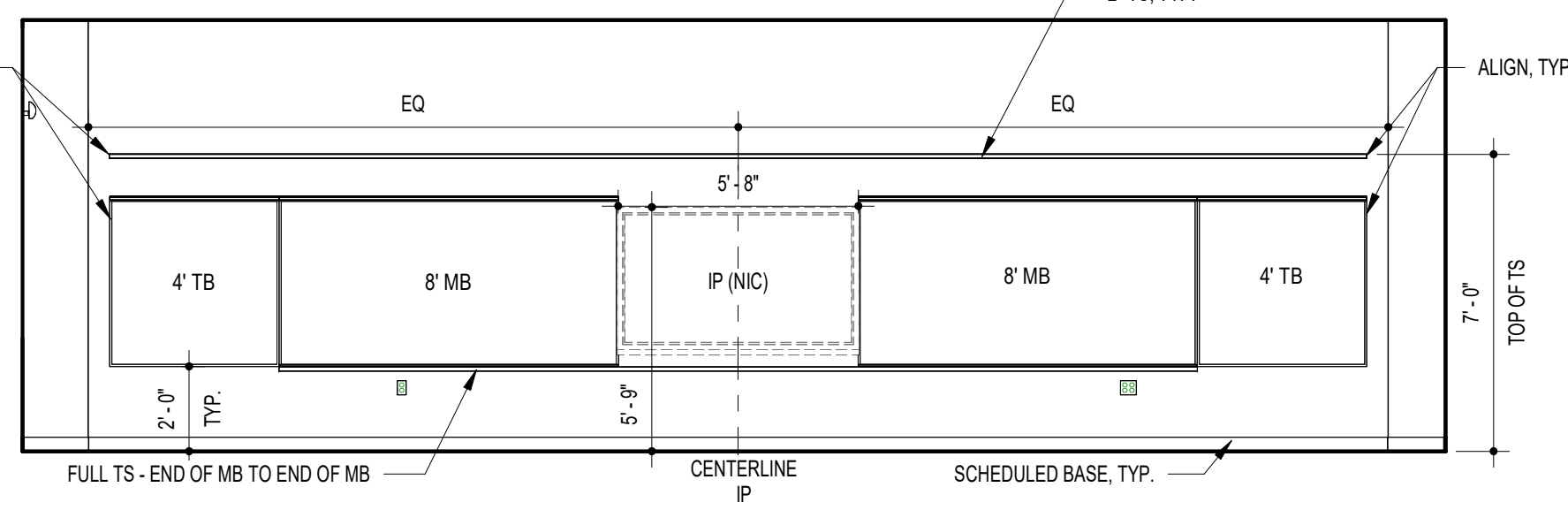
J18 MATH RESOURCE 523 - NORTHWEST ELEVATION
1/4" = 1'-0"



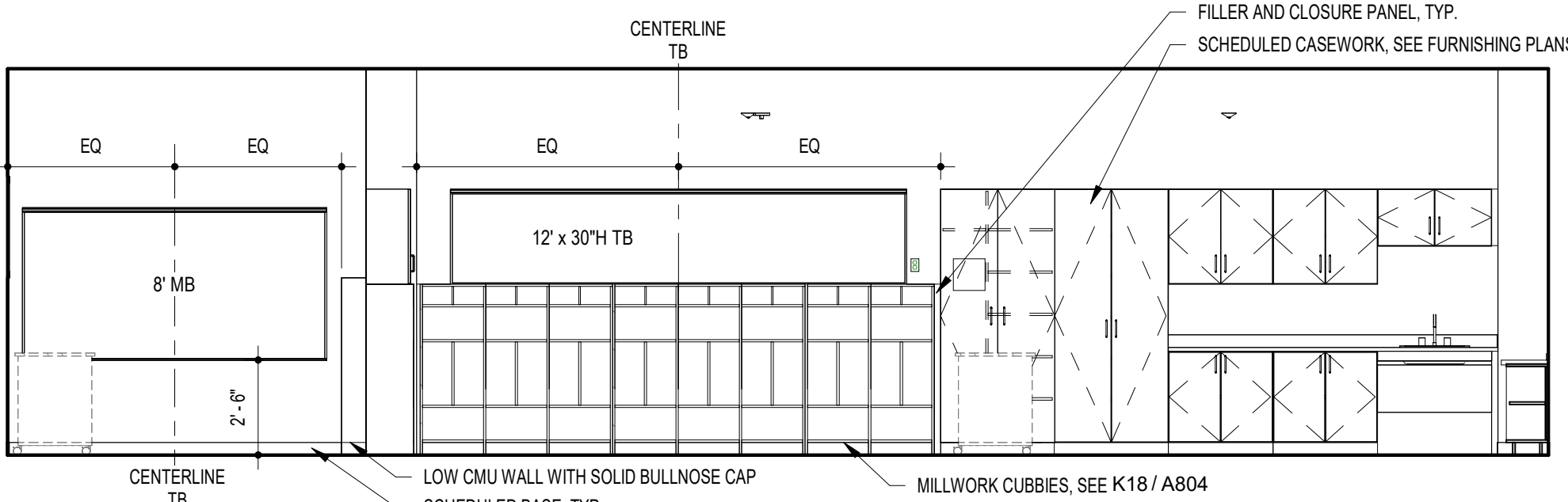
J13 TYPICAL PDS TOILET CASEWORK
1/4" = 1'-0"



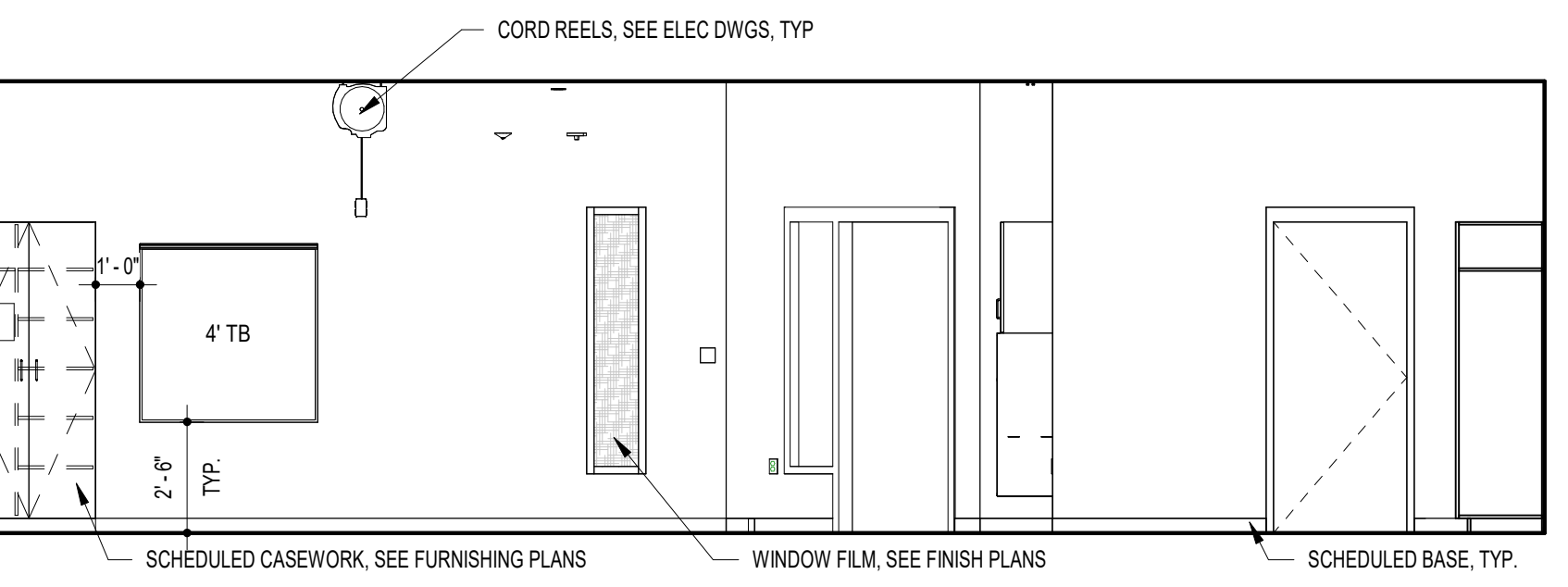
J10 TYPICAL PDS PRE-PRIMARY CORRIDOR WALL
1/4" = 1'-0"



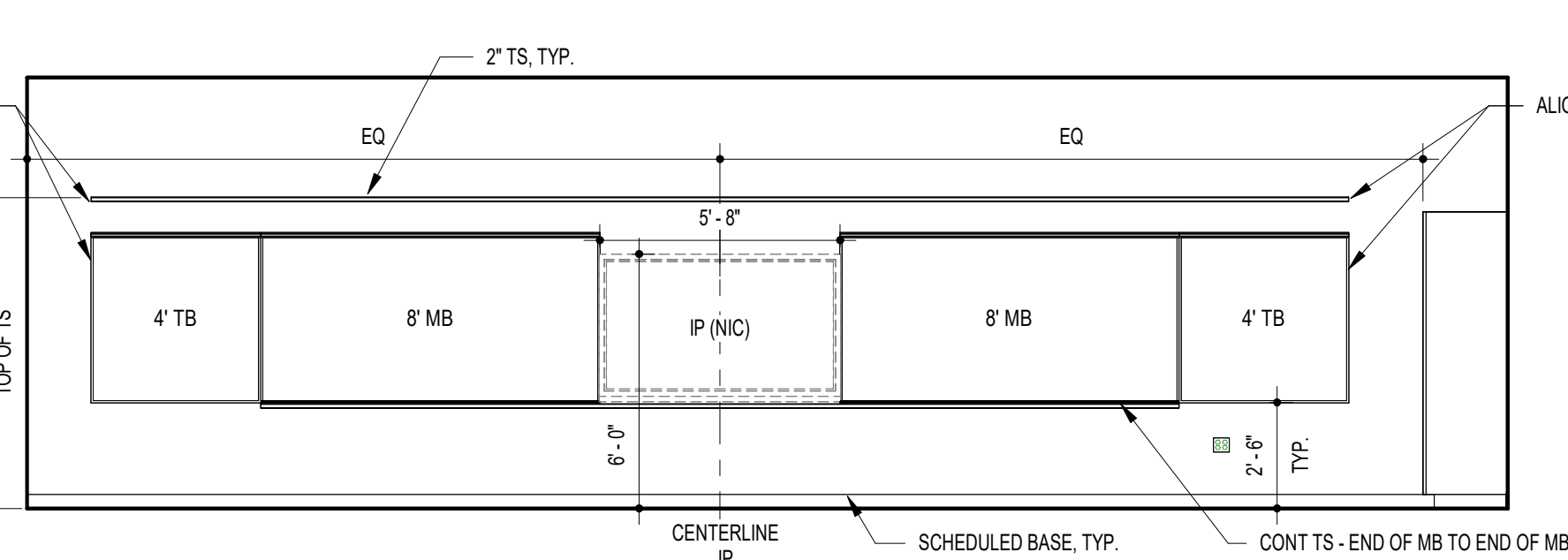
J5 TYPICAL PDS PRE-PRIMARY TEACHING WALL
1/4" = 1'-0"



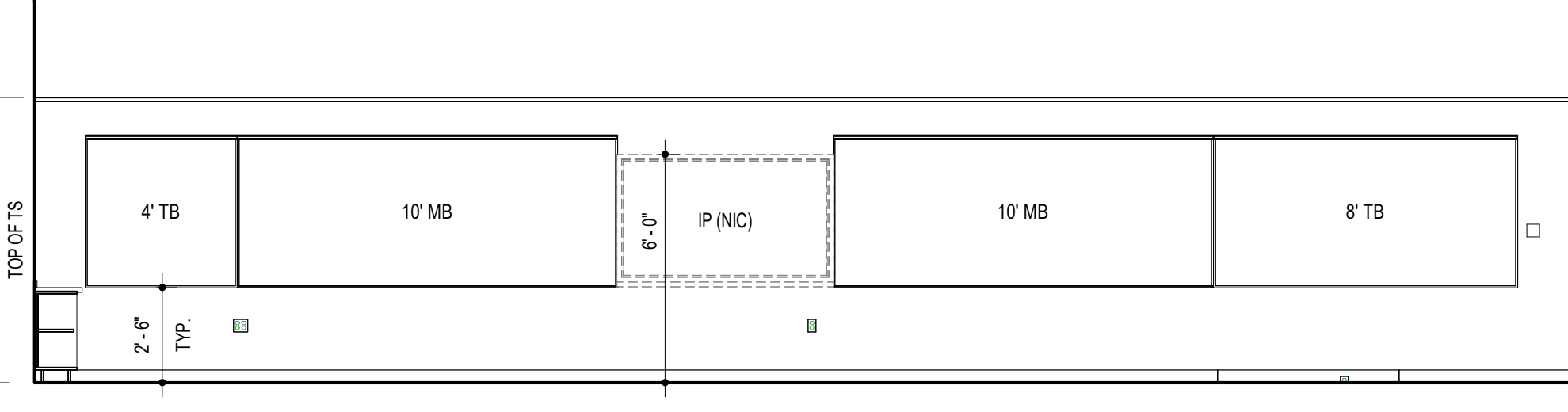
G16 TYPICAL 3RD GRADE REAR WALL
1/4" = 1'-0"



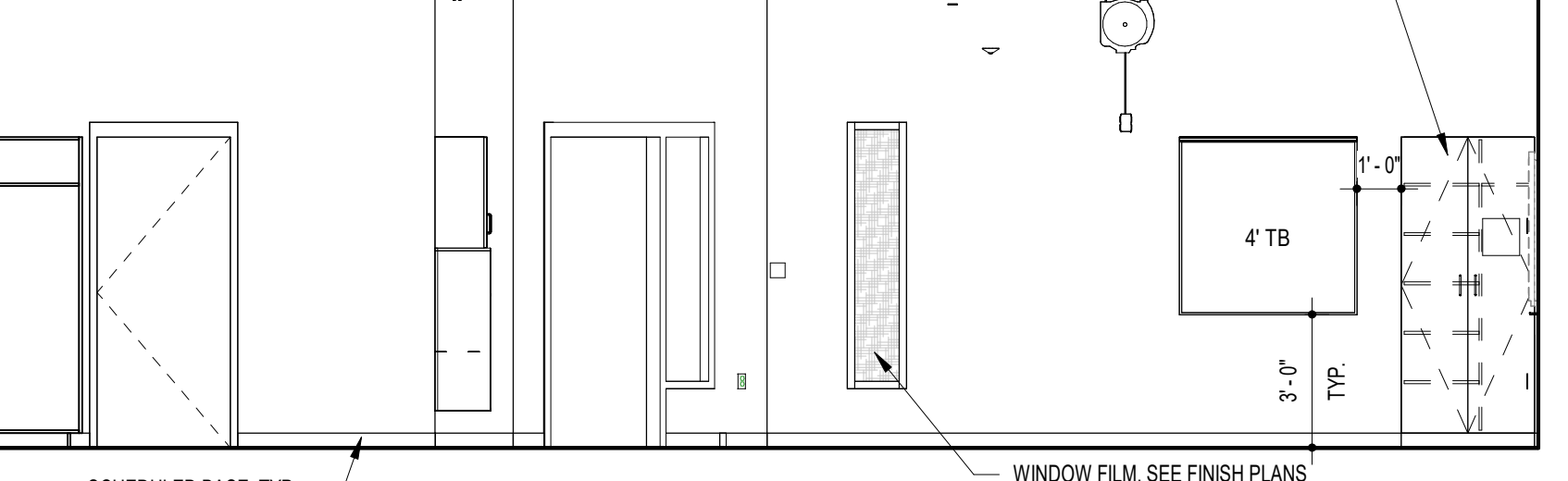
G10 TYPICAL PDS ELEMENTARY CORRIDOR WALL
1/4" = 1'-0"



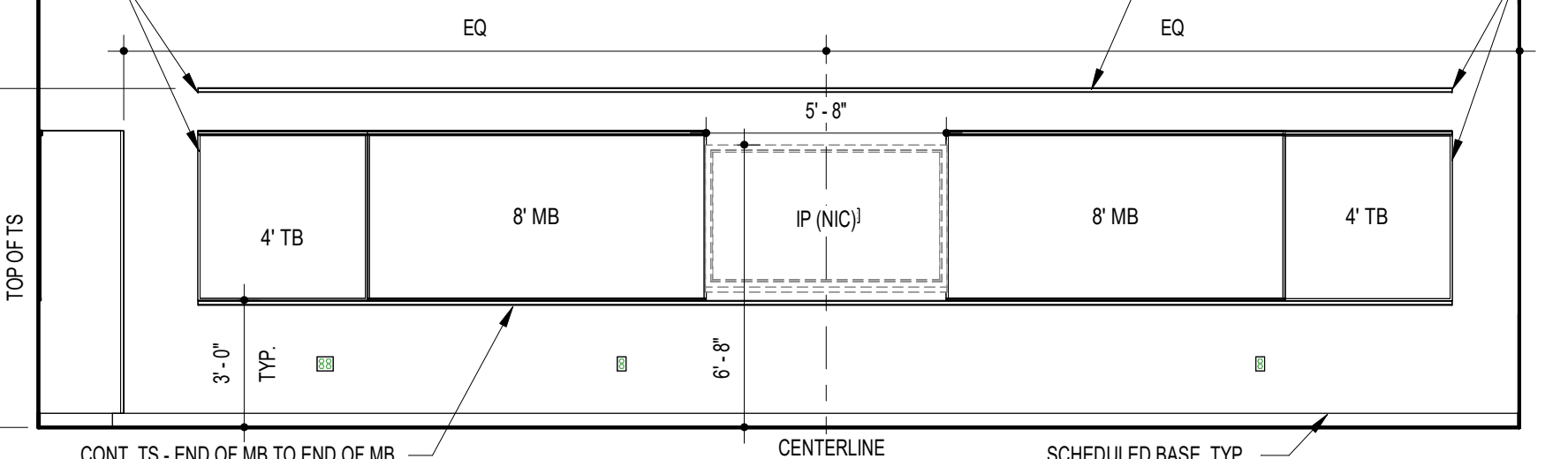
G5 TYPICAL PDS ELEMENTARY TEACHING WALL
1/4" = 1'-0"



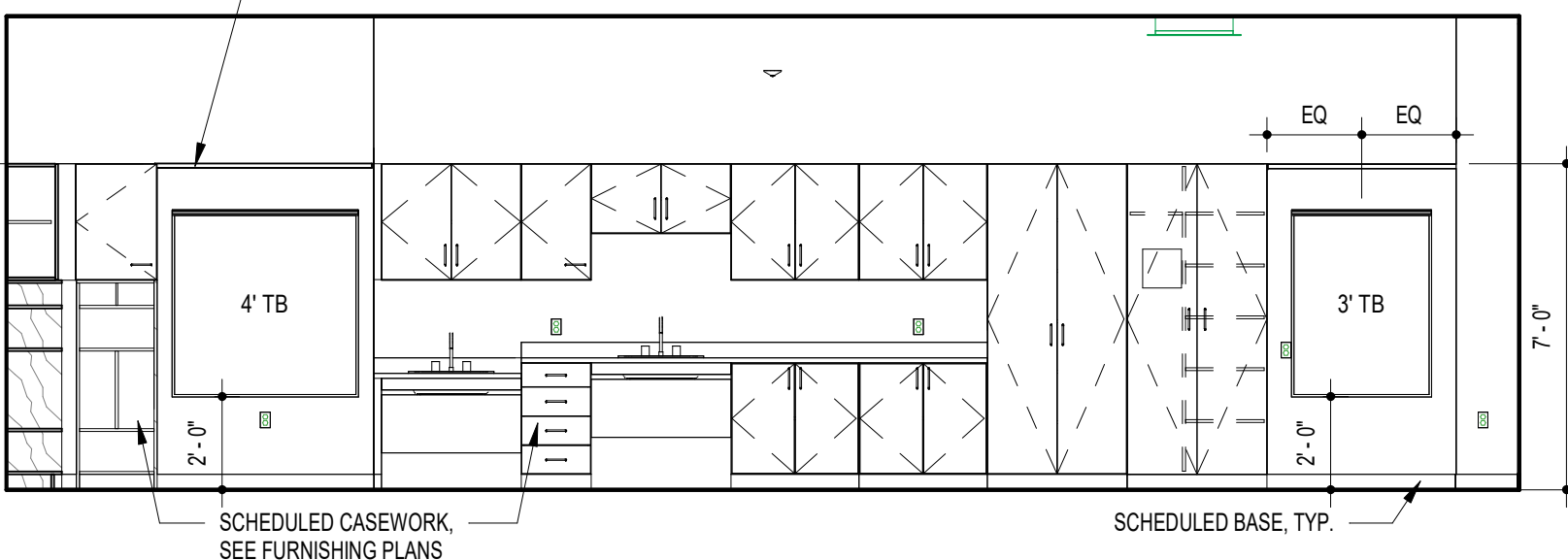
F16 TYPICAL 3RD GRADE TEACHING WALL
1/4" = 1'-0"



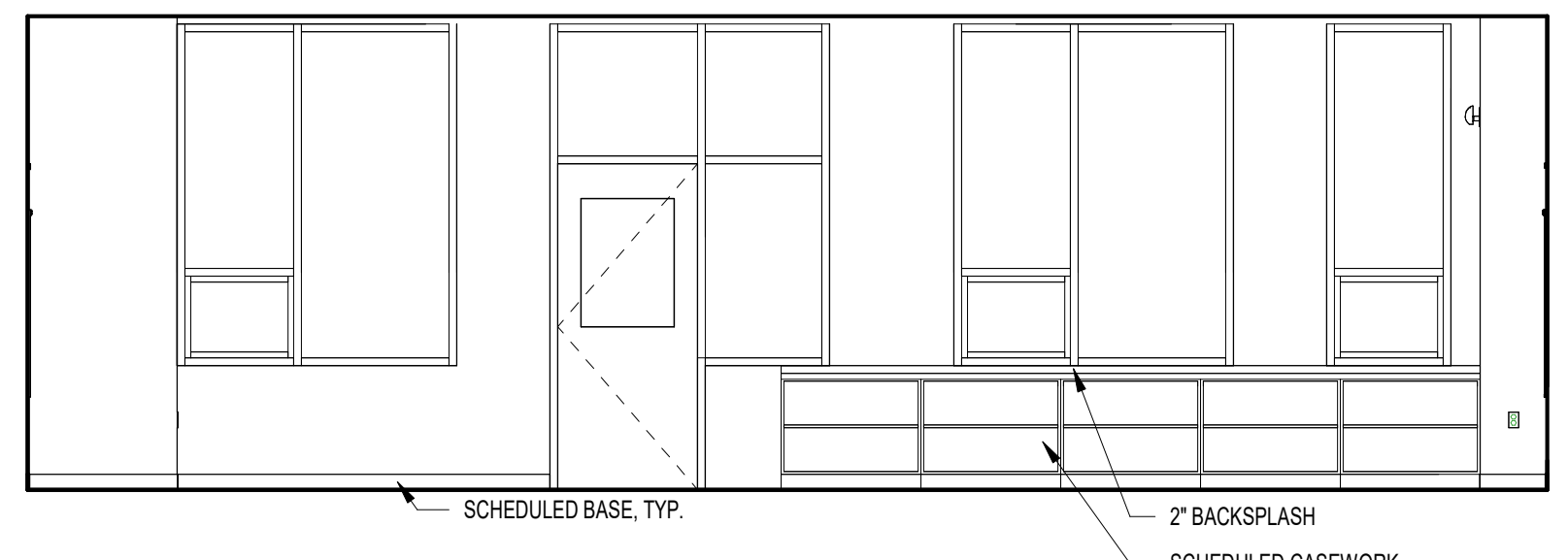
F10 TYPICAL PDS MIDDLE/HIGH CORRIDOR WALL
1/4" = 1'-0"



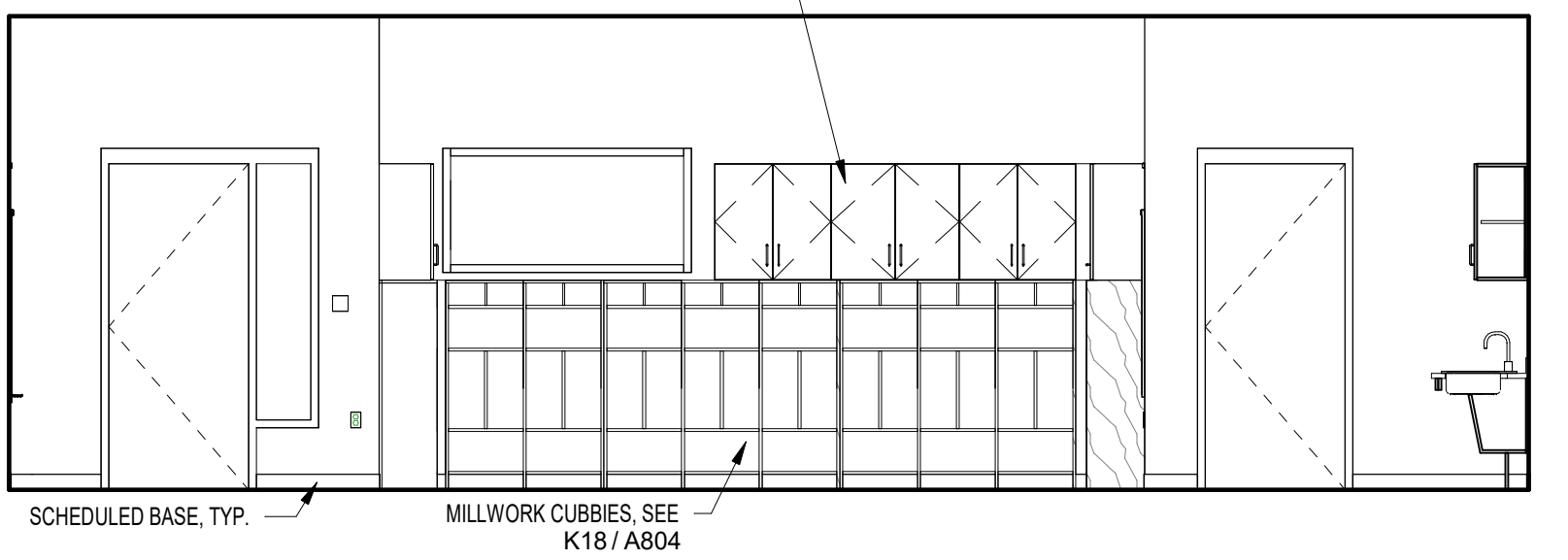
F5 TYPICAL PDS MIDDLE/HIGH TEACHING WALL
1/4" = 1'-0"



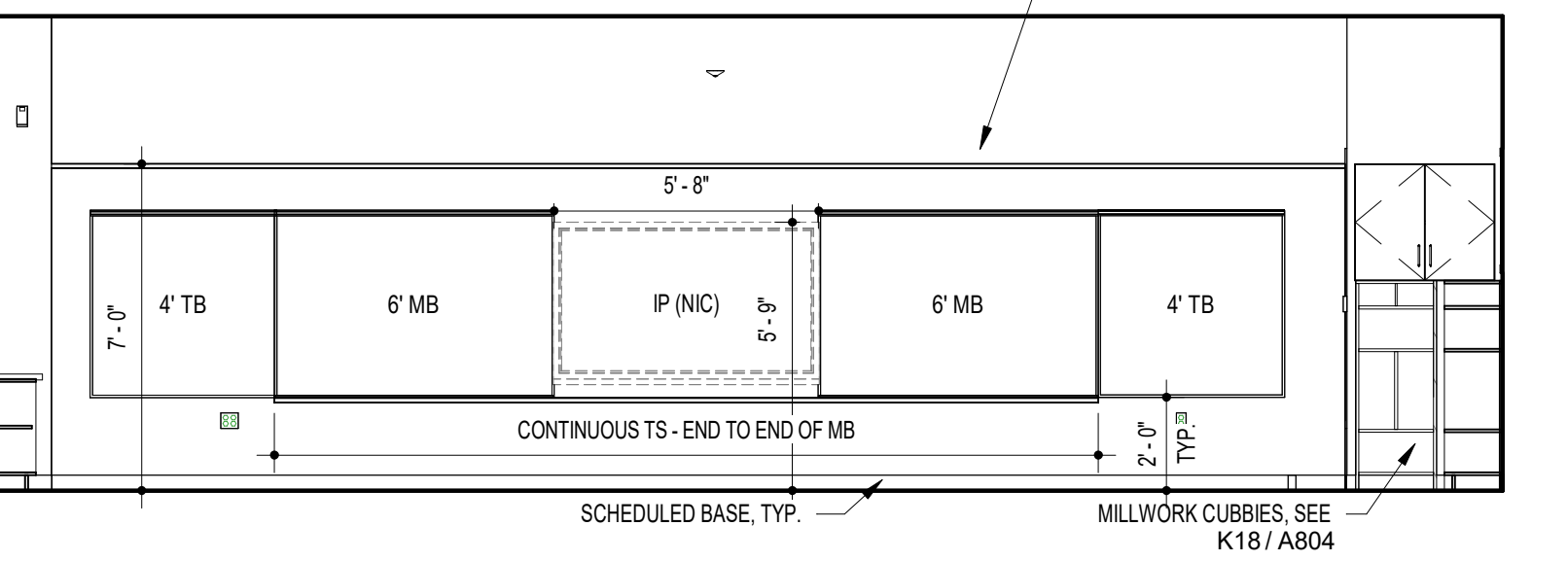
D18 PRE-K 400 - SECONDARY TEACHING WALL
1/4" = 1'-0"



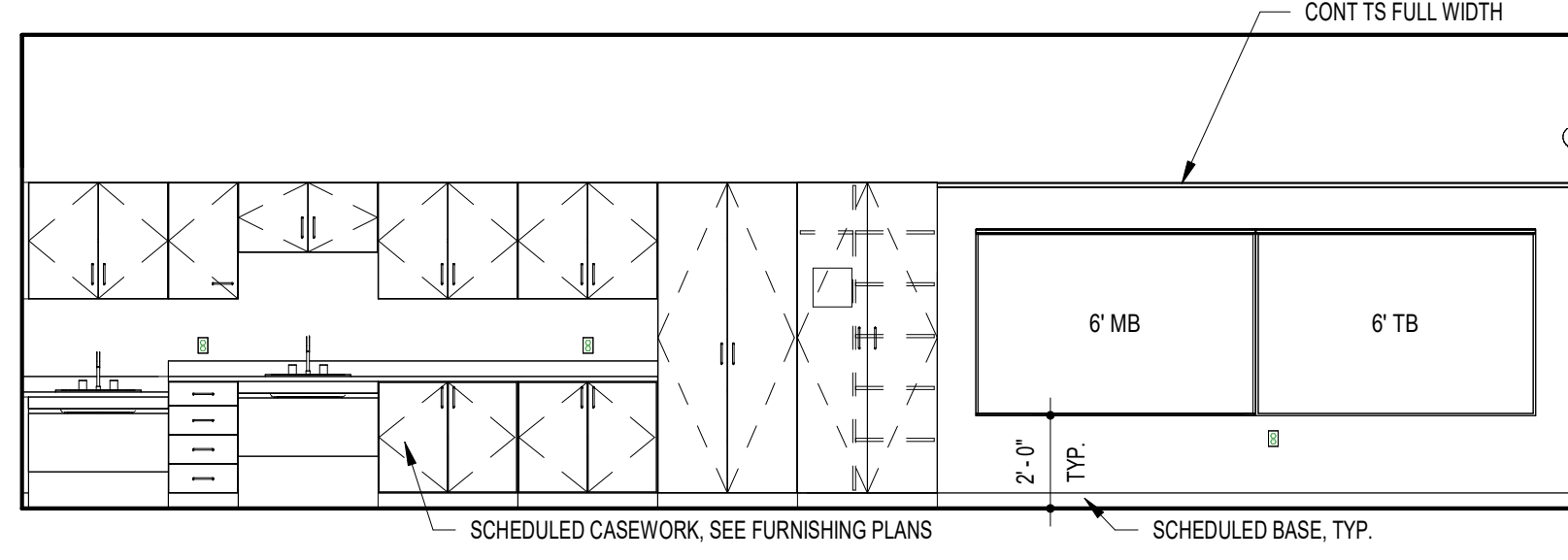
D14 PRE-K 400 - WINDOW WALL
1/4" = 1'-0"



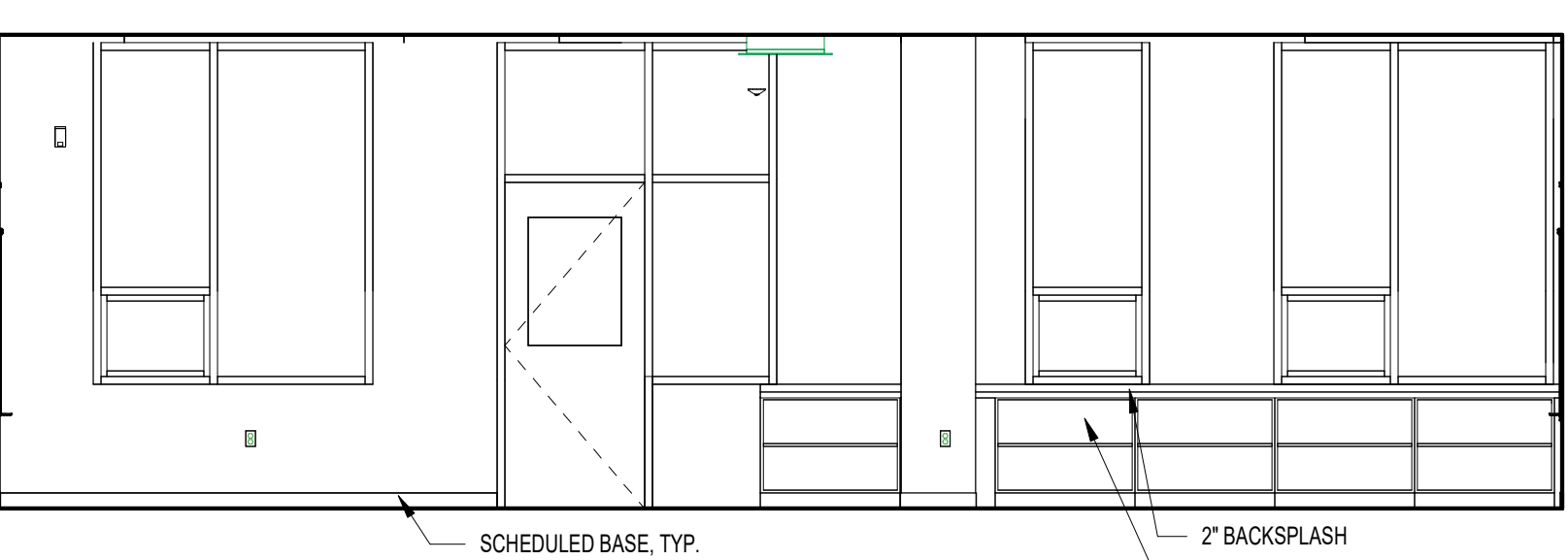
D9 PRE-K 400 - CUBBY WALL
1/4" = 1'-0"



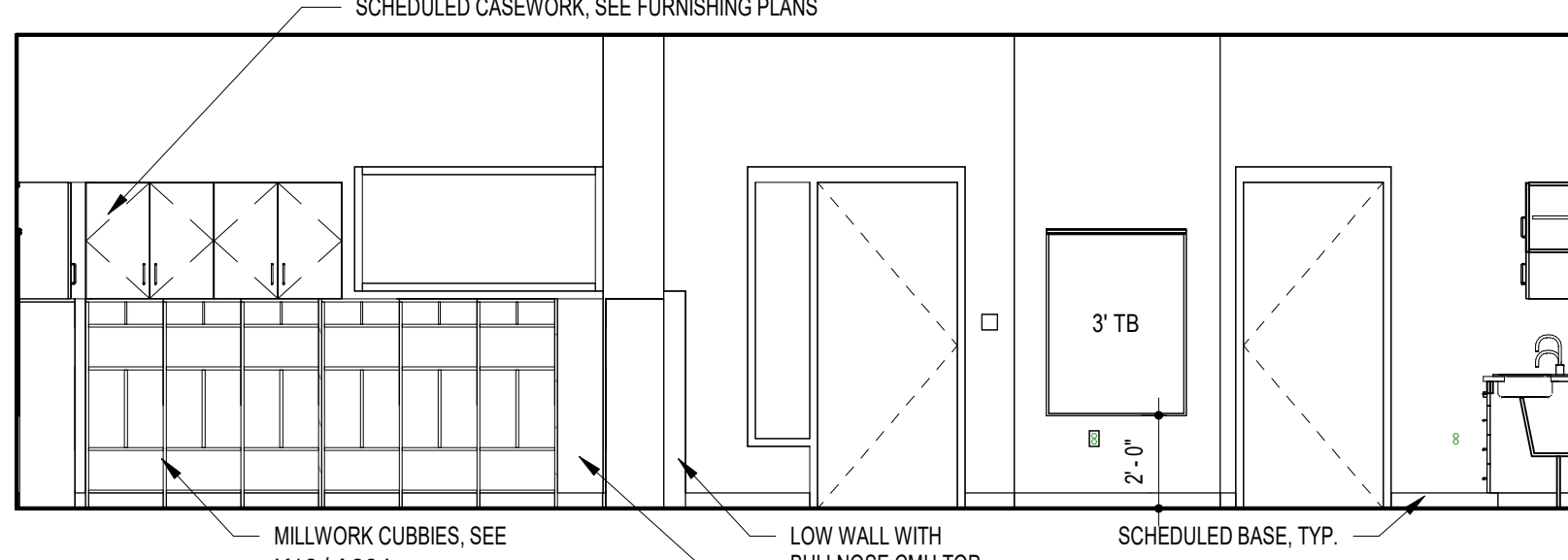
D5 PRE-K 400 - TEACHING WALL
1/4" = 1'-0"



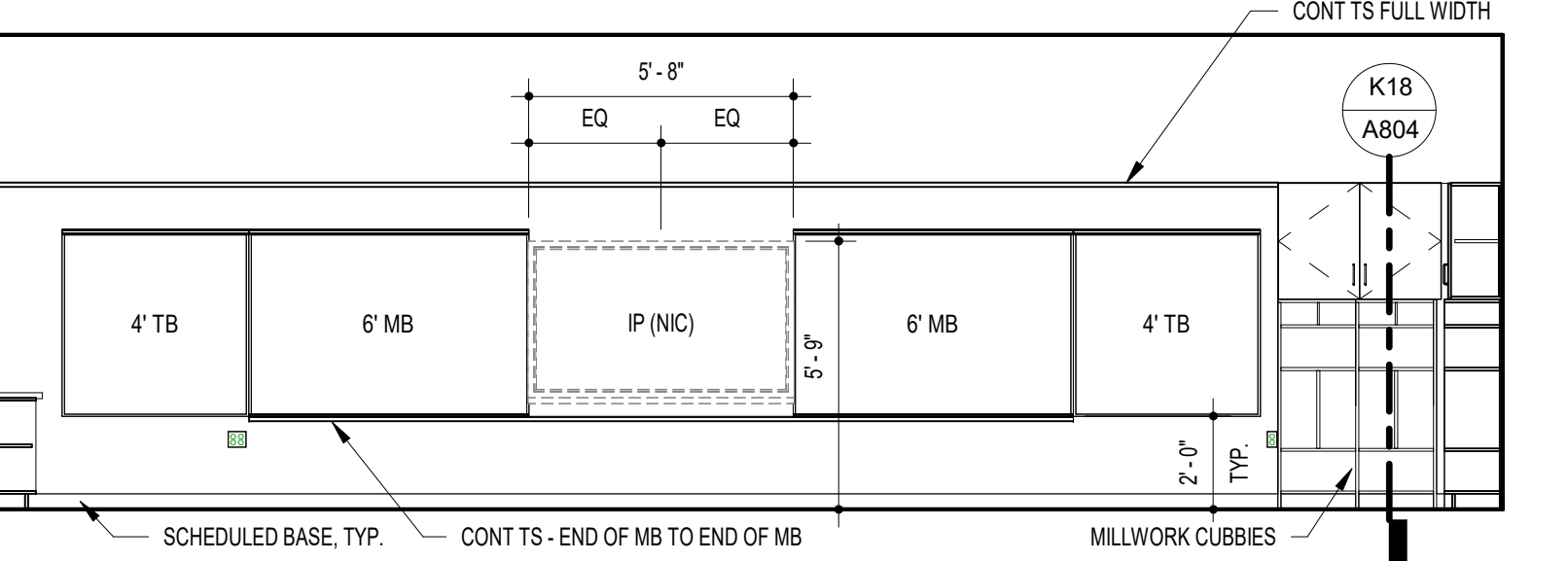
B18 PRE-K 401 - SECONDARY TEACHING WALL
1/4" = 1'-0"



B14 PRE-K 401 - WINDOW WALL
1/4" = 1'-0"



B9 PRE-K 401 - CUBBY WALL
1/4" = 1'-0"



B5 PRE-K 401 - TEACHING WALL
1/4" = 1'-0"

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EXPIRATION DATE 02/22/2027

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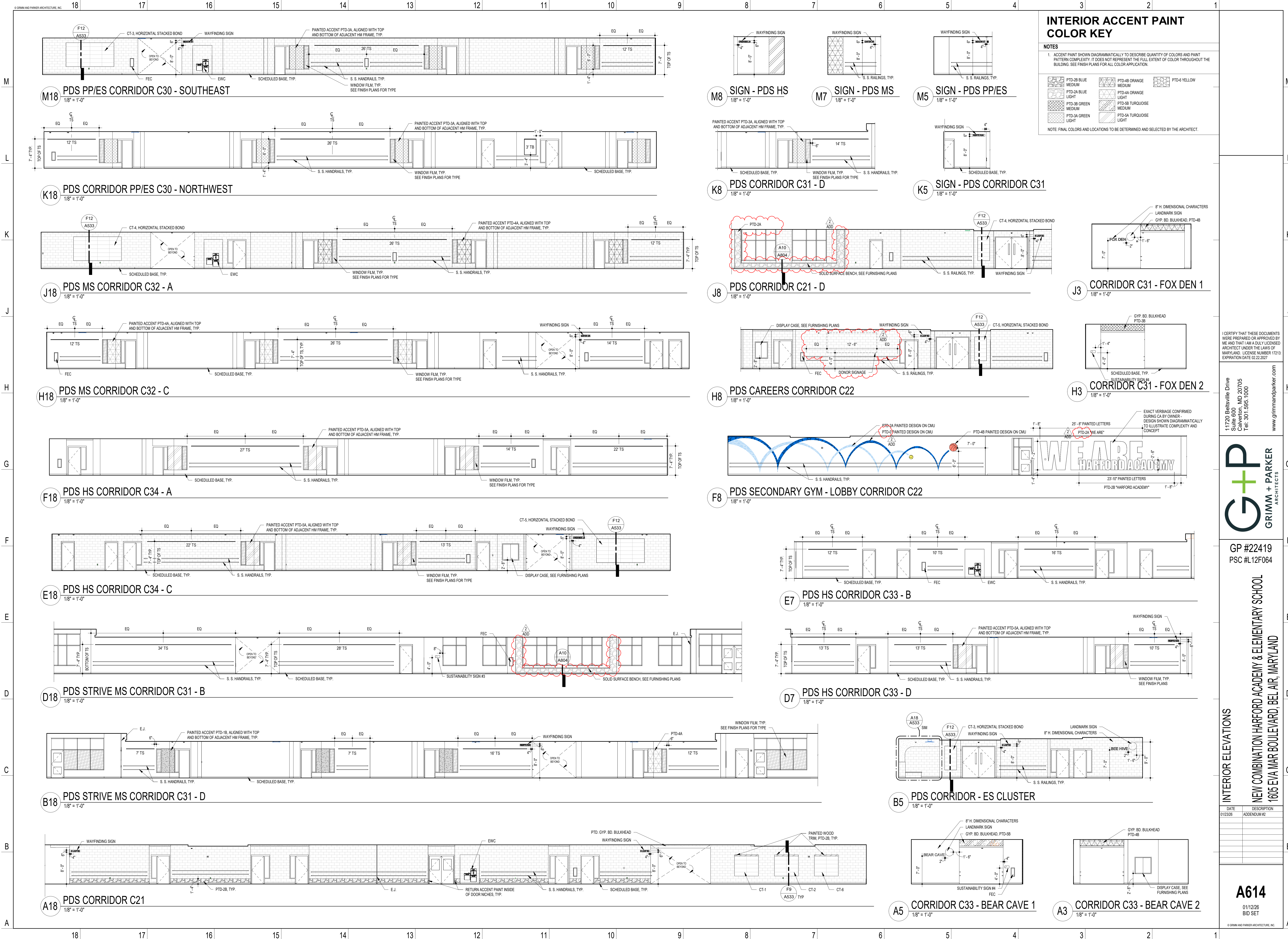


GP #22419
PSC #12F064

INTERIOR ELEVATIONS
NEW COMBINATION HARFORD ACADEMY & ELEMENTARY SCHOOL
1608 EVA MAR BOULEVARD, BEL AIR, MARYLAND

DATE	DESCRIPTION
01/23/26	ADDENDUM #2

A611
01/12/26
BID SET



INTERIOR ACCENT PAINT COLOR KEY

NOTES

1. ACCENT PAINT SHOWN DIAGRAMMATICALLY TO DESCRIBE QUANTITY OF COLORS AND PAINT PATTERN COMPLEXITY. IT DOES NOT REPRESENT THE FULL EXTENT OF COLOR THROUGHOUT THE BUILDING. SEE FINISH PLANS FOR ALL COLOR APPLICATION.

NOTE: FINAL COLORS AND LOCATIONS TO BE DETERMINED AND SELECTED BY THE ARCHITECT.

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GP #22419
PSC #12F064

NEW COMBINATION HARFORD ACADEMY & ELEMENTARY SCHOOL
1608 EVA MAR BOULEVARD, BEL AIR, MARYLAND

DATE	DESCRIPTION
01/23/26	ADDENDUM #2

A614
01/12/26
BID SET



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GP #22419
PSC #12F064

PARTIAL FIRST FLOOR FINISH PLAN - AREA A
NEW COMBINATION HARFORD ACADEMY & ELEMENTARY SCHOOL
1605 EVA MAR BOULEVARD, BEL AIR, MARYLAND

DATE	DESCRIPTION
01/23/26	ADDENDUM #2

A901A
01/12/26
BID SET



INTERIOR ACCENT KEY

INTERIOR PAINT COLORS

- NOTES**
1. COLORS AND PATTERNS ARE SHOWN FOR VISUAL REPRESENTATION ONLY AND DO NOT DEPICT THE ACTUAL VISUAL APPEARANCE.
 2. REFER TO MATERIAL SCHEDULE FOR MANUFACTURER AND COLOR OF PAINT AND TILE.
 3. FINAL COLORS AND LOCATIONS TO BE DETERMINED AND SELECTED BY THE ARCHITECT.
 4. TYPICAL WALL AND CEILING PAINT COLOR TO BE PTD-0 UNLESS NOTED AS ACCENT COLORS SHOWN BELOW.
 5. FINISH PLAN LINE TYPES INDICATE PAINT COLOR AND FULL HEIGHT ACCENT WALLS. SEE INTERIOR ELEVATIONS FOR WAINSCOT, PATTERNS, MURALS, AND COLOR BLOCKING EXTENTS.

TYPICAL FIELD PAINT - WHITE PTD-0		
ACCENT COLOR 1 - GRAY PTD-1A		
ACCENT COLOR 2 - BLUE PTD-2A		
ACCENT COLOR 3 - GREEN PTD-3A		
ACCENT COLOR 4 - ORANGE PTD-4A		
ACCENT COLOR 5 - TEAL PTD-5A		
ACCENT COLOR 6 - YELLOW PTD-6		
MEDIUM SHADE PTD-1B	MEDIUM SHADE PTD-2B	DARK SHADE PTD-2C
MEDIUM SHADE PTD-3B	MEDIUM SHADE PTD-4B	MEDIUM SHADE PTD-5B

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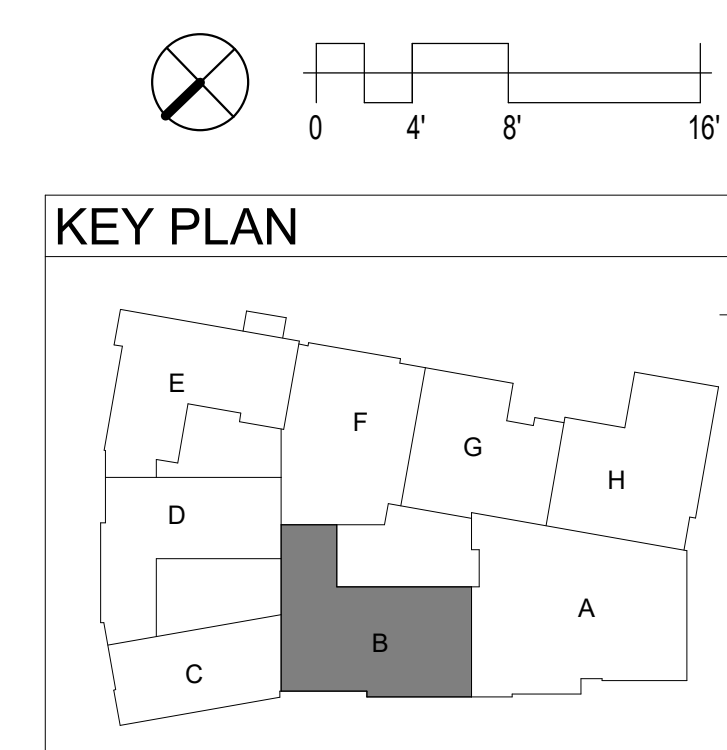
GP #22419
PSC #L12F064

PARTIAL FIRST FLOOR FINISH PLAN - AREA B
NEW COMBINATION HARFORD ACADEMY & ELEMENTARY SCHOOL
1605 EVA MAR BOULEVARD, BEL AIR, MARYLAND

DATE	DESCRIPTION
01/23/26	ADDENDUM #2

A901B
01/12/26
BID SET

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M
L
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J
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D
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A

INTERIOR ACCENT KEY
INTERIOR PAINT COLORS

NOTES

1. COLORS AND PATTERNS ARE SHOWN FOR VISUAL REPRESENTATION ONLY AND DO NOT DEPICT THE ACTUAL VISUAL APPEARANCE.
2. REFER TO MATERIAL SCHEDULE FOR MANUFACTURER AND COLOR OF PAINT AND TILE.
3. FINAL COLORS AND LOCATIONS TO BE DETERMINED AND SELECTED BY THE ARCHITECT.
4. TYPICAL WALL AND CEILING PAINT COLOR TO BE PTD-0 UNLESS NOTED AS ACCENT COLORS SHOWN BELOW.
5. FINISH PLAN LINE TYPES INDICATE PAINT COLOR AND FULL HEIGHT ACCENT WALLS. SEE INTERIOR ELEVATIONS FOR WANSLOT, PATTERNS, MURALS, AND COLOR BLOCKING EXTENTS.

TYPICAL FIELD PAINT - WHITE
PTD-0

ACCENT COLOR 1 - GRAY
LIGHT SHADE
PTD-1A
MEDIUM SHADE
PTD-1B
DARK SHADE
PTD-1C

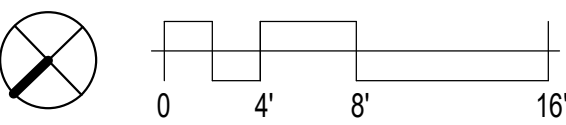
ACCENT COLOR 2 - BLUE
LIGHT SHADE
PTD-2A
MEDIUM SHADE
PTD-2B
DARK SHADE
PTD-2C

ACCENT COLOR 3 - GREEN
LIGHT SHADE
PTD-3A
MEDIUM SHADE
PTD-3B
DARK SHADE
PTD-3C

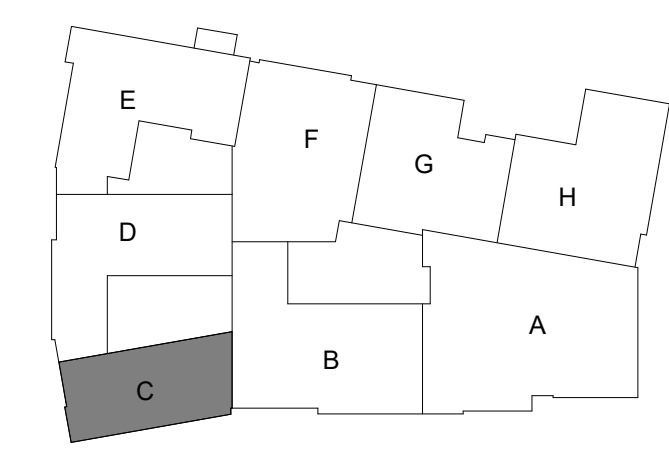
ACCENT COLOR 4 - ORANGE
LIGHT SHADE
PTD-4A
MEDIUM SHADE
PTD-4B
DARK SHADE
PTD-4C

ACCENT COLOR 5 - TEAL
LIGHT SHADE
PTD-5A
MEDIUM SHADE
PTD-5B
DARK SHADE
PTD-5C

ACCENT COLOR 6 - YELLOW
PTD-6



KEY PLAN



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GP #22419
PSC #L12F064

PARTIAL FIRST FLOOR FINISH PLAN - AREA C
NEW COMBINATION HARFORD ACADEMY & ELEMENTARY SCHOOL
1605 EVA MAR BOULEVARD, BEL AIR, MARYLAND

DATE	DESCRIPTION
01/23/26	ADDENDUM #2

A901C
01/12/26
BID SET

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A18 PARTIAL FIRST FLOOR FINISH PLAN - AREA C
1/8" = 1'-0"



INTERIOR ACCENT KEY

INTERIOR PAINT COLORS

- NOTES
1. COLORS AND PATTERNS ARE SHOWN FOR VISUAL REPRESENTATION ONLY AND DO NOT DEPICT THE ACTUAL VISUAL APPEARANCE.
 2. REFER TO MATERIAL SCHEDULE FOR MANUFACTURER AND COLOR OF PAINT AND TILE.
 3. FINAL COLORS AND LOCATIONS TO BE DETERMINED AND SELECTED BY THE ARCHITECT.
 4. TYPICAL WALL AND CEILING PAINT COLOR TO BE PTD-0 UNLESS NOTED AS ACCENT COLORS SHOWN BELOW.
 5. FINISH PLAN LINE TYPES INDICATE PAINT COLOR AND FULL HEIGHT ACCENT WALLS. SEE INTERIOR ELEVATIONS FOR WAINSCOT, PATTERNS, MURALS, AND COLOR BLOCKING EXTENTS.

TYPICAL FIELD PAINT - WHITE PTD-0		
ACCENT COLOR 1 - GRAY LIGHT SHADE PTD-1A	MEDIUM SHADE PTD-1B	
ACCENT COLOR 2 - BLUE LIGHT SHADE PTD-2A	MEDIUM SHADE PTD-2B	DARK SHADE PTD-2C
ACCENT COLOR 3 - GREEN LIGHT SHADE PTD-3A	MEDIUM SHADE PTD-3B	
ACCENT COLOR 4 - ORANGE LIGHT SHADE PTD-4A	MEDIUM SHADE PTD-4B	
ACCENT COLOR 5 - TEAL LIGHT SHADE PTD-5A	MEDIUM SHADE PTD-5B	
ACCENT COLOR 6 - YELLOW PTD-6		

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF MARYLAND. LICENSE NUMBER 17213. EXPIRATION DATE 02/22/2027.

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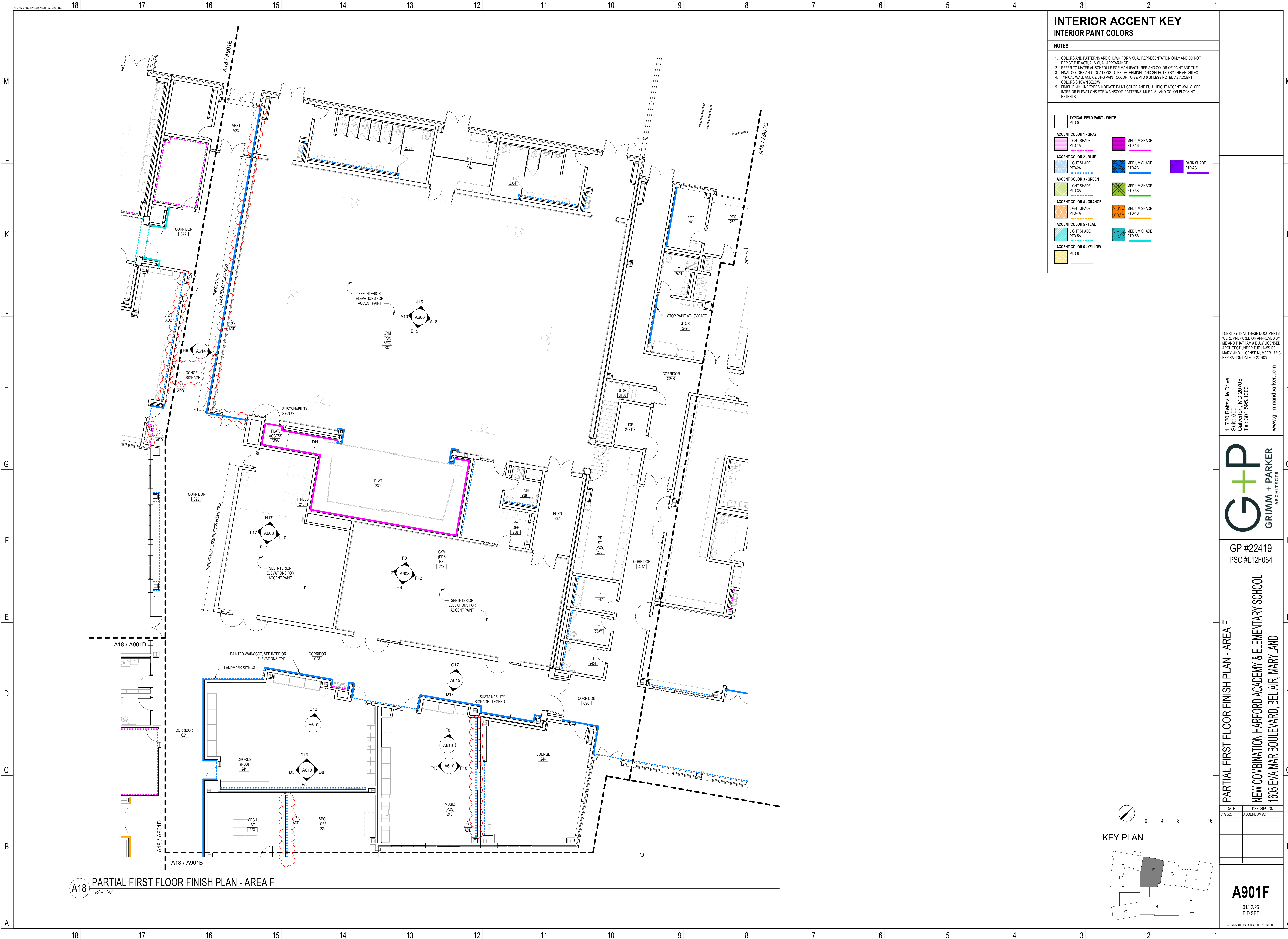


GP #22419
PSC #L12F064

PARTIAL FIRST FLOOR FINISH PLAN - AREA E
NEW COMBINATION HARFORD ACADEMY & ELEMENTARY SCHOOL
1608 EVA MAR BOULEVARD, BEL AIR, MARYLAND

DATE	DESCRIPTION
01/23/26	ADDENDUM #2

A901E
01/12/26
BID SET
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A18 PARTIAL FIRST FLOOR FINISH PLAN - AREA F
1/8" = 1'-0"

1. COLORS AND PATTERNS ARE SHOWN FOR VISUAL REPRESENTATION ONLY AND DO NOT DEPICT THE ACTUAL VISUAL APPEARANCE
2. REFER TO MATERIAL SCHEDULE FOR MANUFACTURER AND COLOR OF PAINT AND TILE.
3. FINAL COLORS AND LOCATIONS TO BE DETERMINED AND SELECTED BY THE ARCHITECT
4. TYPICAL WALL AND CEILING PAINT COLOR TO BE PTD-0 UNLESS NOTED AS ACCENT COLORS SHOWN BELOW
5. FINISH PLAN LINE TYPES INDICATE PAINT COLOR AND FULL HEIGHT ACCENT WALLS. SEE INTERIOR ELEVATIONS FOR WAINSCOT, PATTERNS, MURALS, AND COLOR BLOCKING EXTENTS.

- | | | | |
|---|---|---|------------------------|
|  | TYPICAL FIELD PAINT - WHITE
PTD-0 | | |
|  | ACCENT COLOR 1 - GRAY
LIGHT SHADE
PTD-1A |  | MEDIUM SHADE
PTD-1B |
|  | ACCENT COLOR 2 - BLUE
LIGHT SHADE
PTD-2A |  | MEDIUM SHADE
PTD-2B |
|  | ACCENT COLOR 3 - GREEN
LIGHT SHADE
PTD-3A |  | MEDIUM SHADE
PTD-3B |
|  | ACCENT COLOR 4 - ORANGE
LIGHT SHADE
PTD-4A |  | MEDIUM SHADE
PTD-4B |
|  | ACCENT COLOR 5 - TEAL
LIGHT SHADE
PTD-5A |  | MEDIUM SHADE
PTD-5B |
|  | ACCENT COLOR 6 - YELLOW
PTD-6 | | |

I CERTIFY THAT THESE DOCUMENTS
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GP #22419
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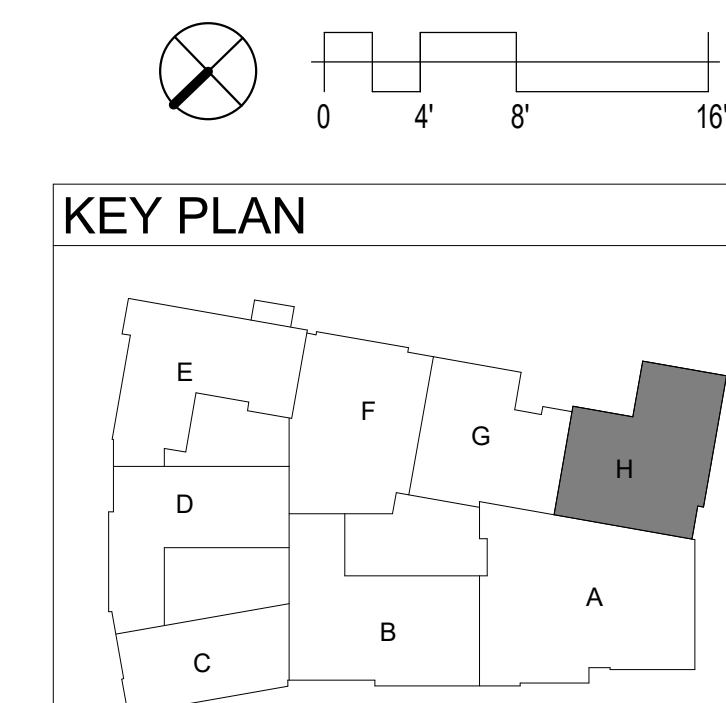
PARTIAL FIRST FLOOR FINISH PLAN - AREA H
NEW COMBINATION HARFORD ACADEMY & ELEMENTARY SCHOOL
1605 EVA MAR BOULEVARD, BELAIR, MARYLAND

DATE	DESCRIPTION
01/23/26	ADDENDUM #2

A901H

01/12/26
BID SET

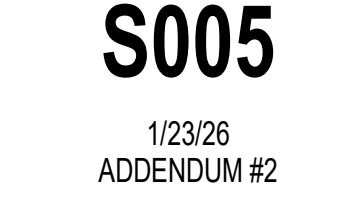
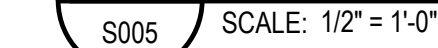
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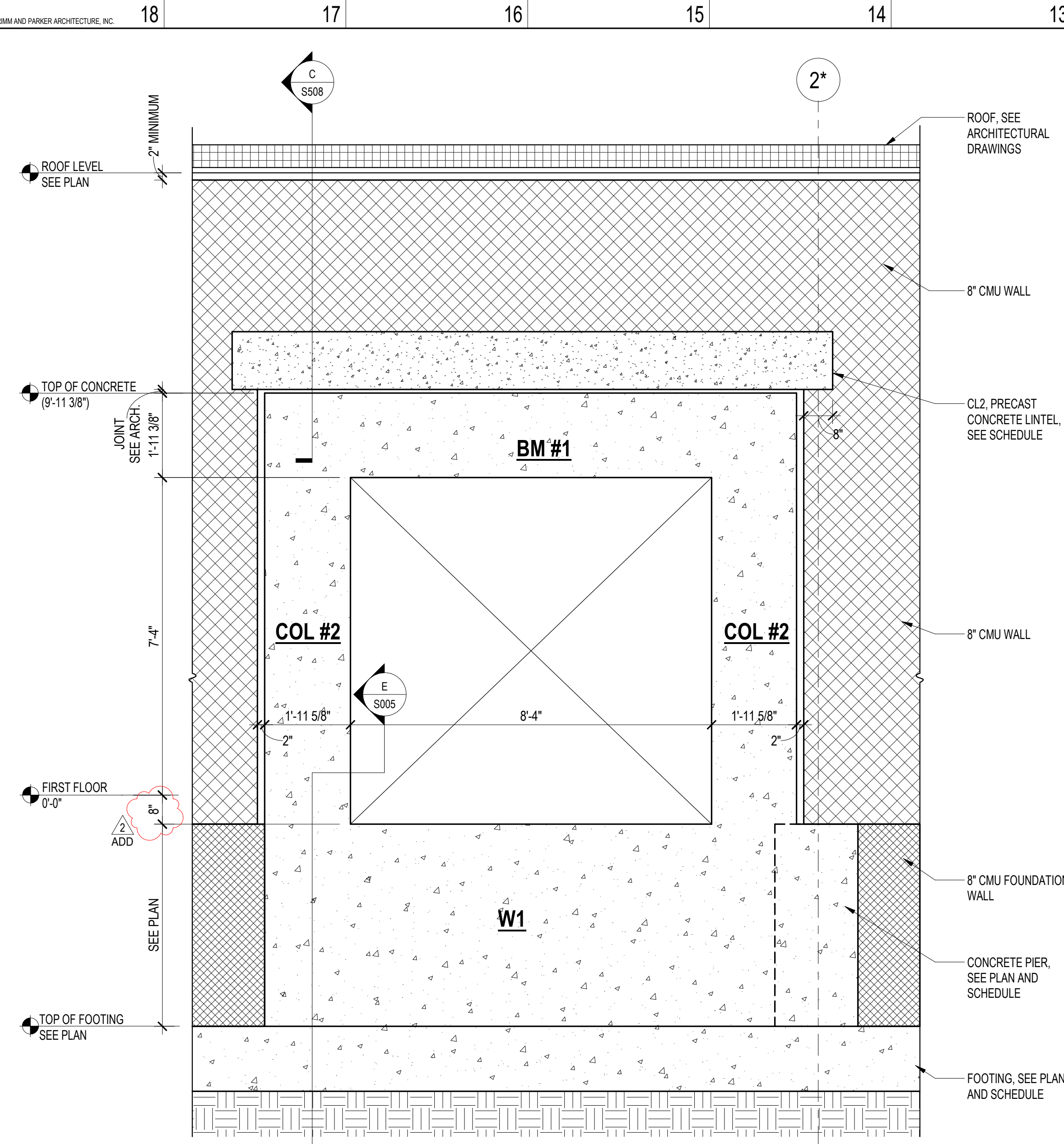


KEY PLAN

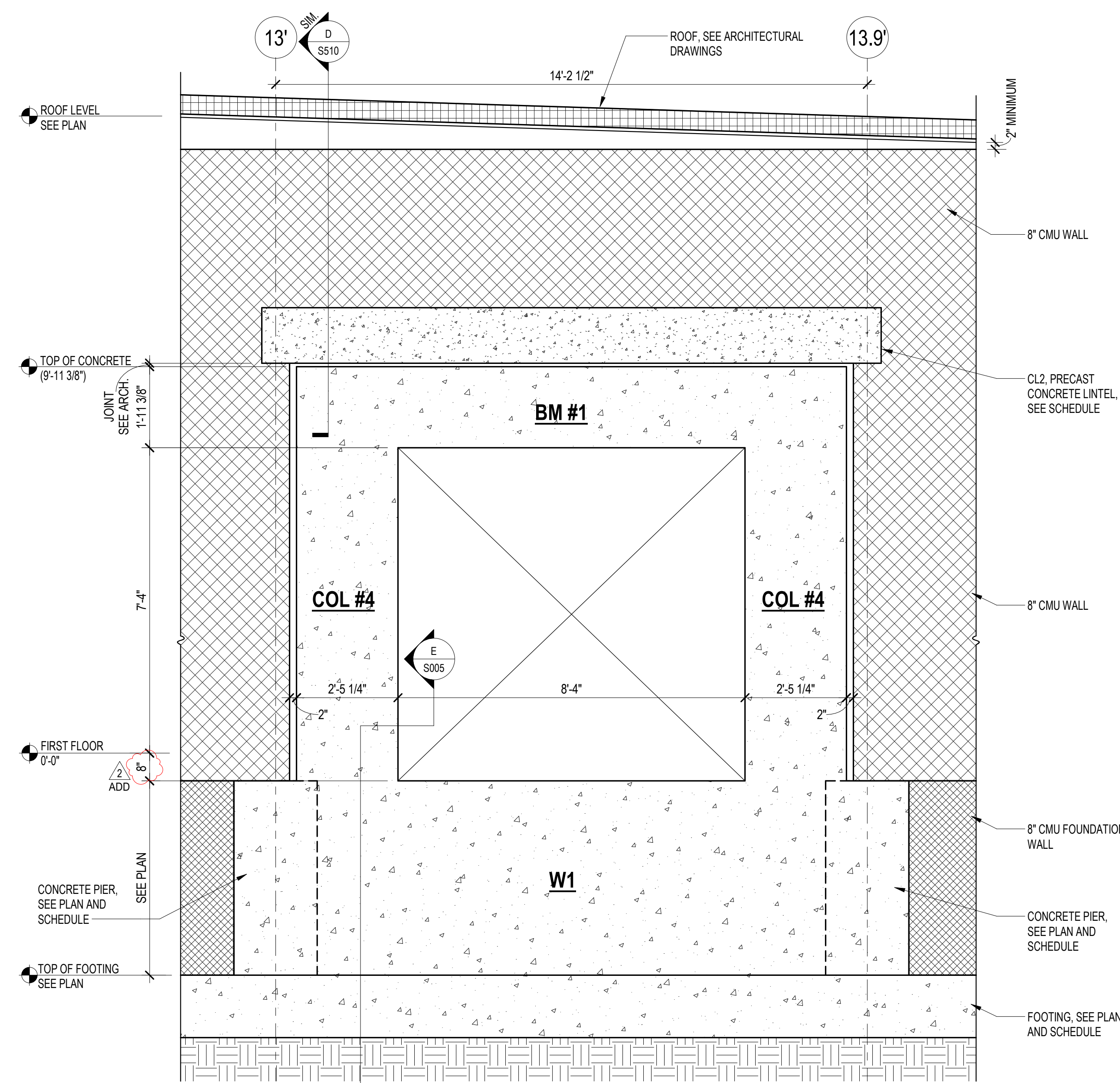
A18 PARTIAL FIRST FLOOR FINISH PLAN - AREA H
1/8" = 1'-0"

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

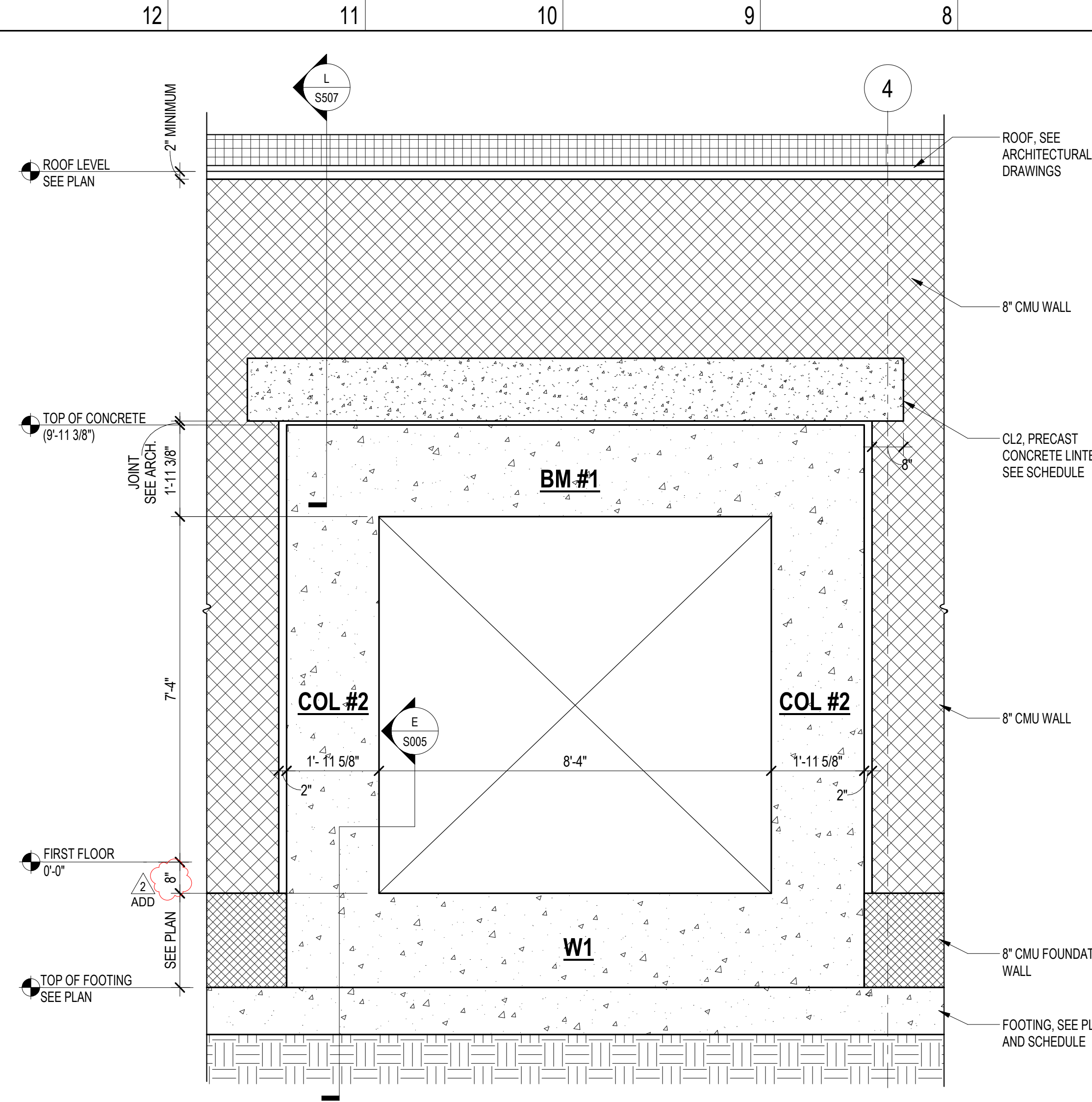




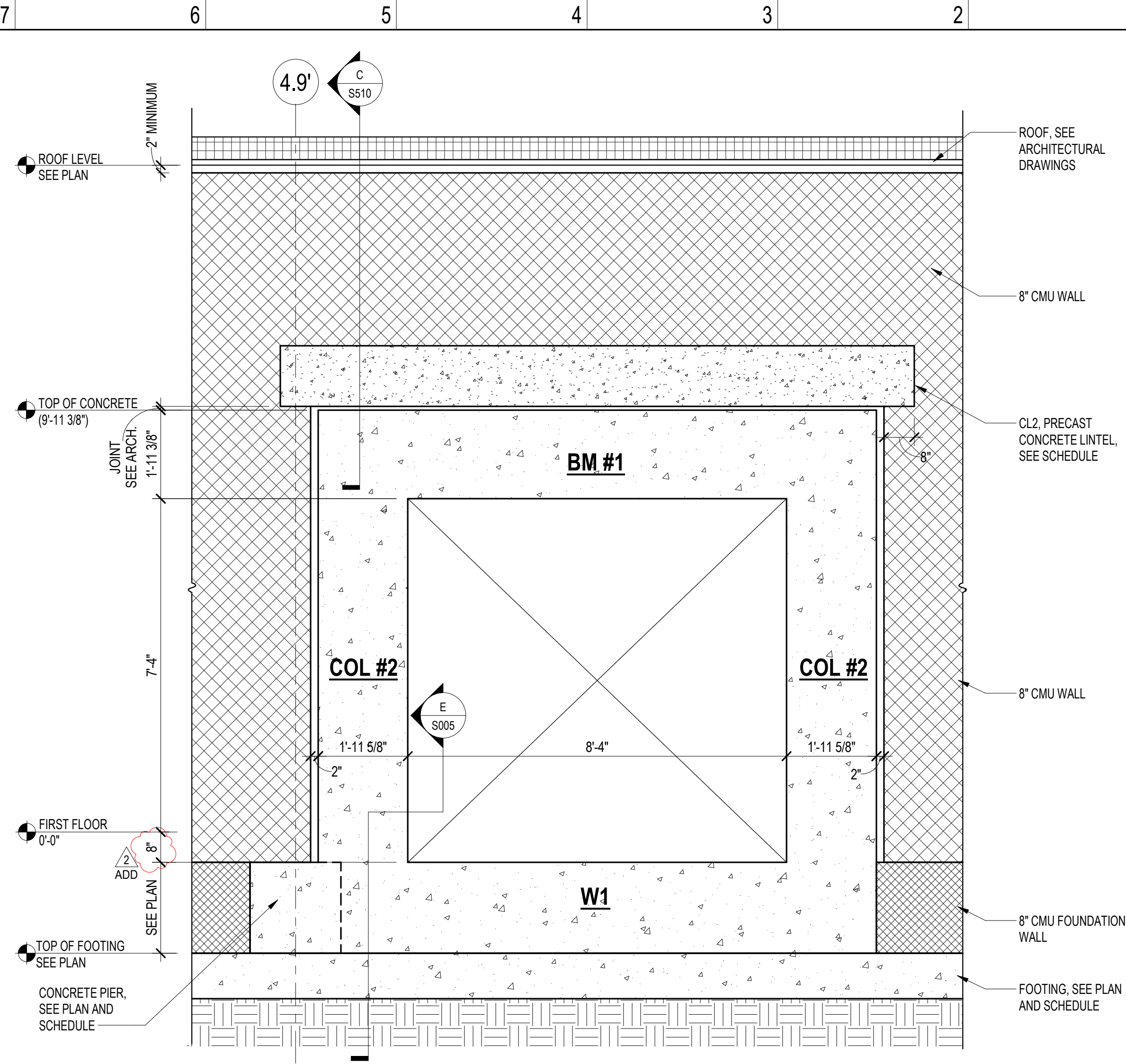
A PORTAL FRAME #1-C
S006 SCALE: 1/2" = 1'-0"



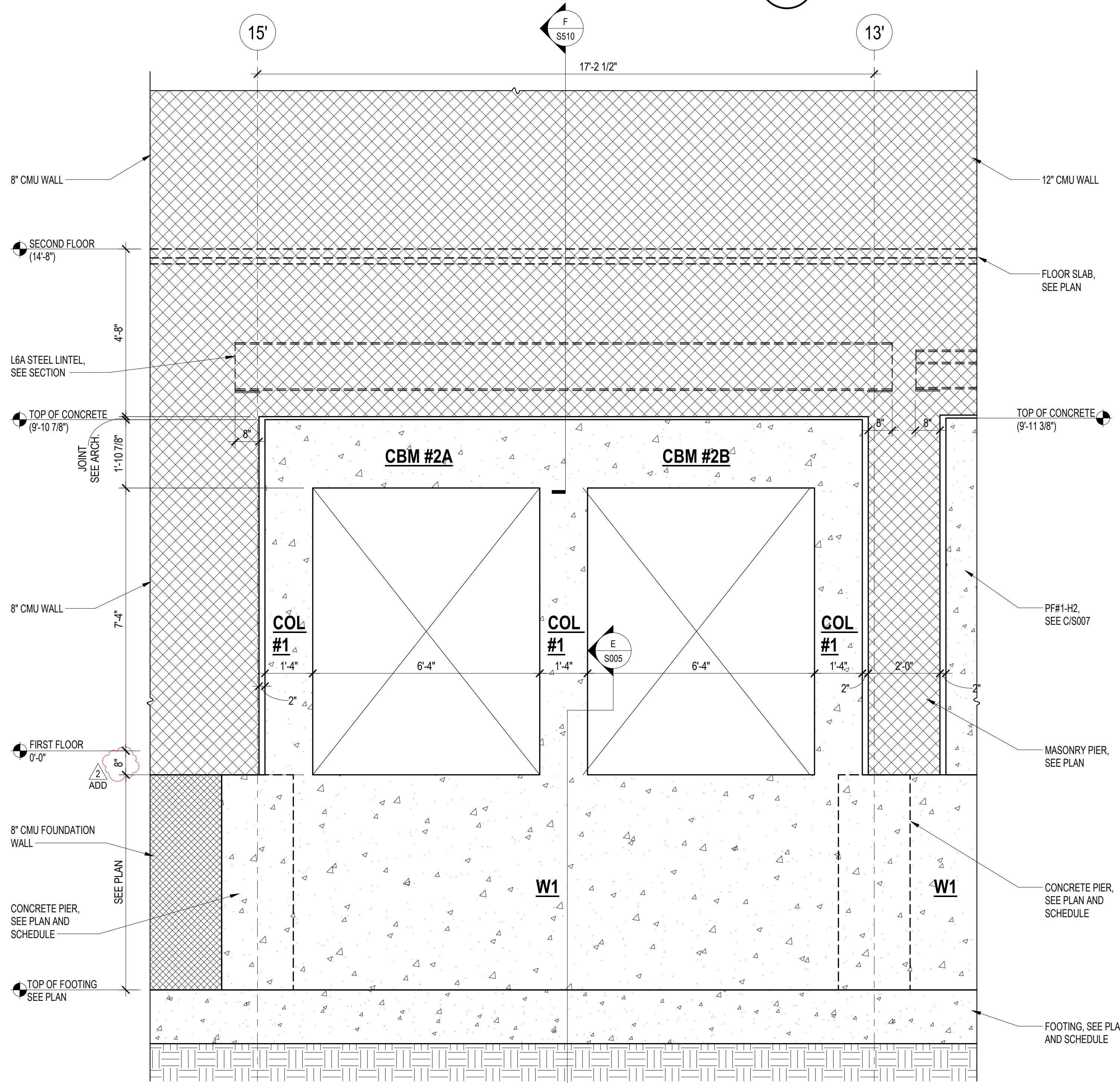
D PORTAL FRAME #1-F1
S006 SCALE: 1/2" = 1'-0"



B PORTAL FRAME #1-D
S006 SCALE: 1/2" = 1'-0"



C PORTAL FRAME #1-E
S006 SCALE: 1/2" = 1'-0"



E PORTAL FRAME #2-H1
S006 SCALE: 1/2" = 1'-0"



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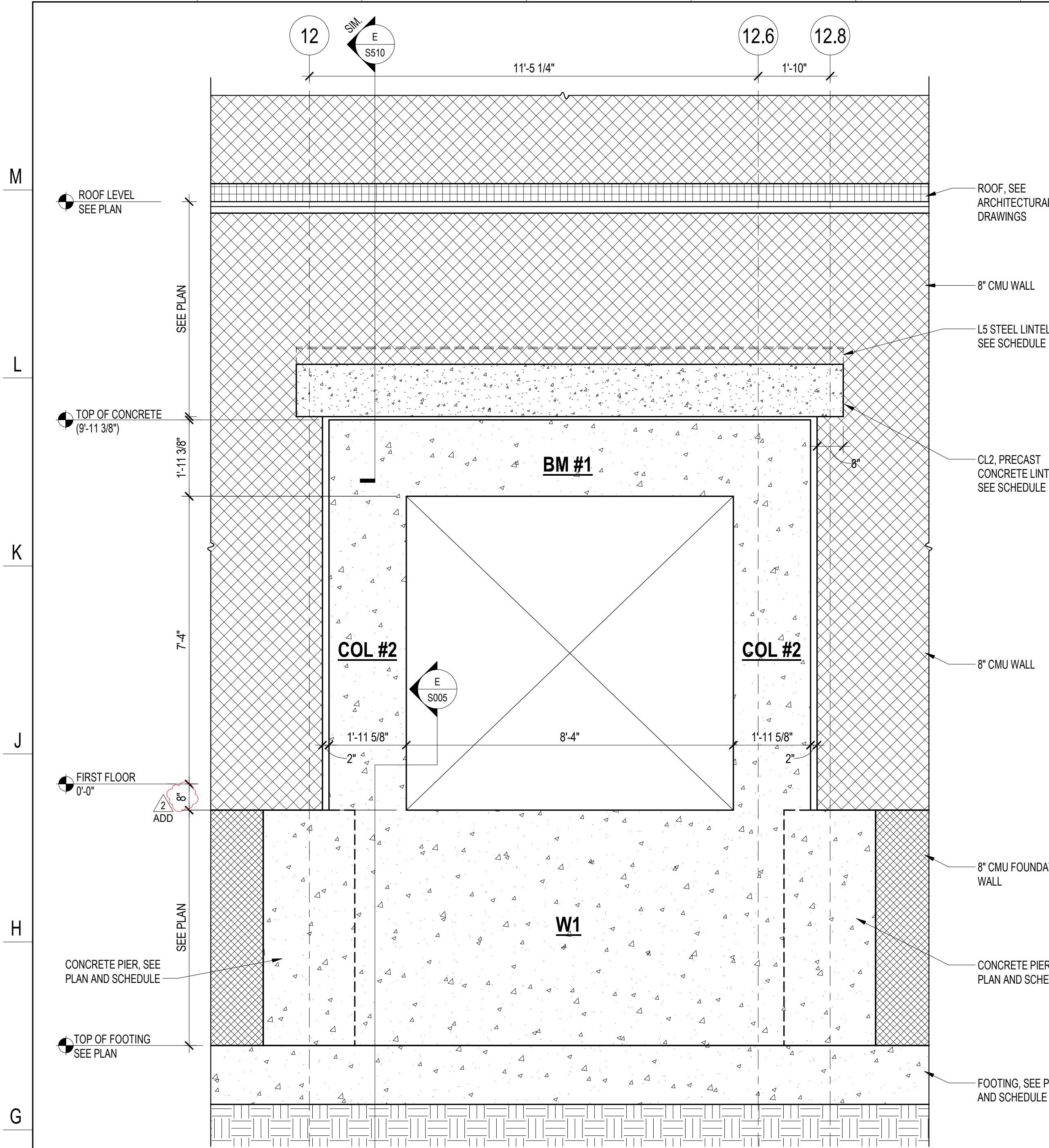
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PORTAL FRAMES
NEW COMBINATION HARFORD ACADEMY & ELEMENTARY SCHOOL
1605 EVA MAR BOULEVARD, BELAIR, MARYLAND

DATE	DESCRIPTION
01/23/26	ADDENDUM #2

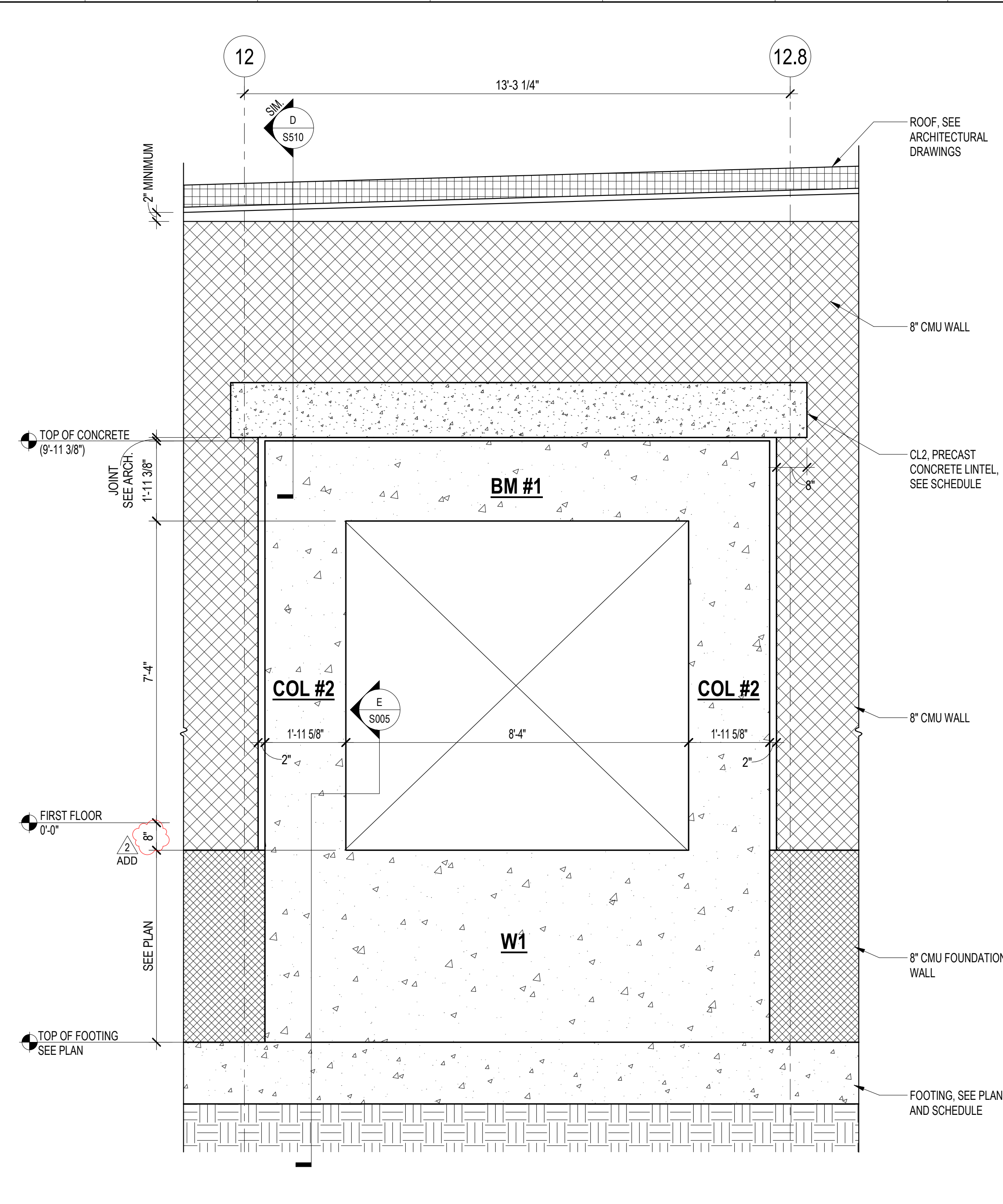
S006
1/23/26
ADDENDUM #2

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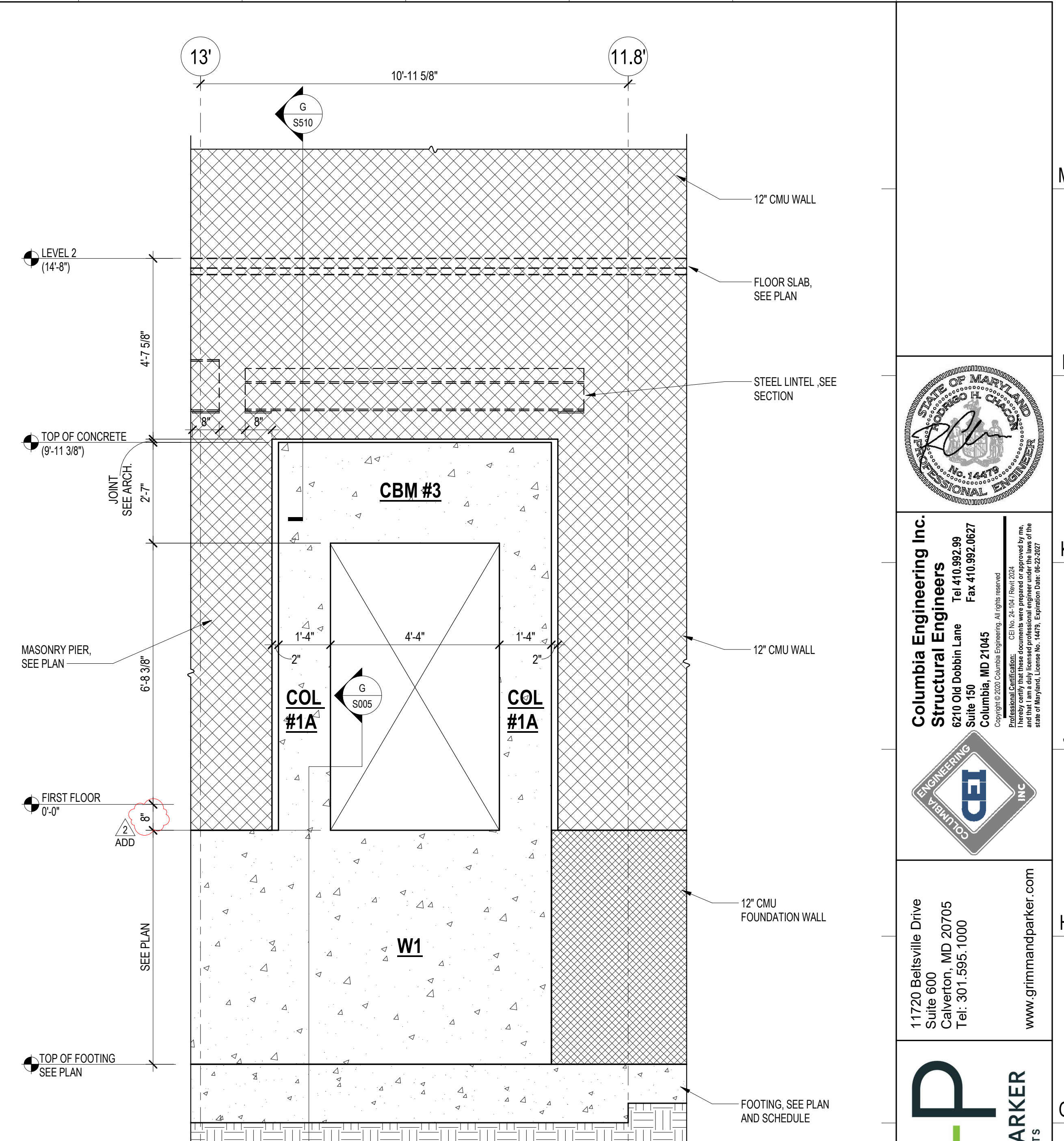
A PORTAL FRAME #1-A3

S007 SCALE: 1/2" = 1'-0"



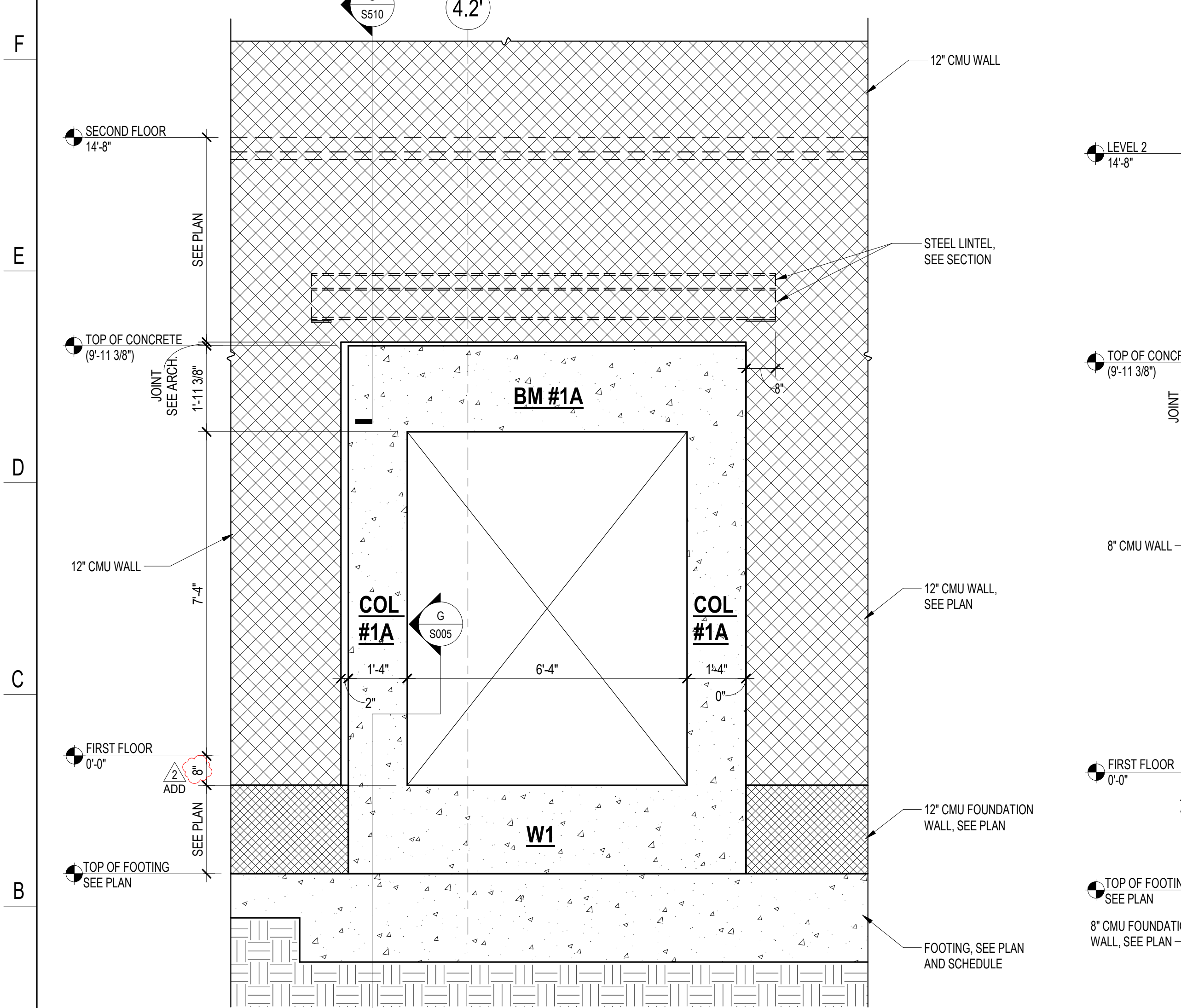
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S007 SCALE: 1/2" = 1'-0"



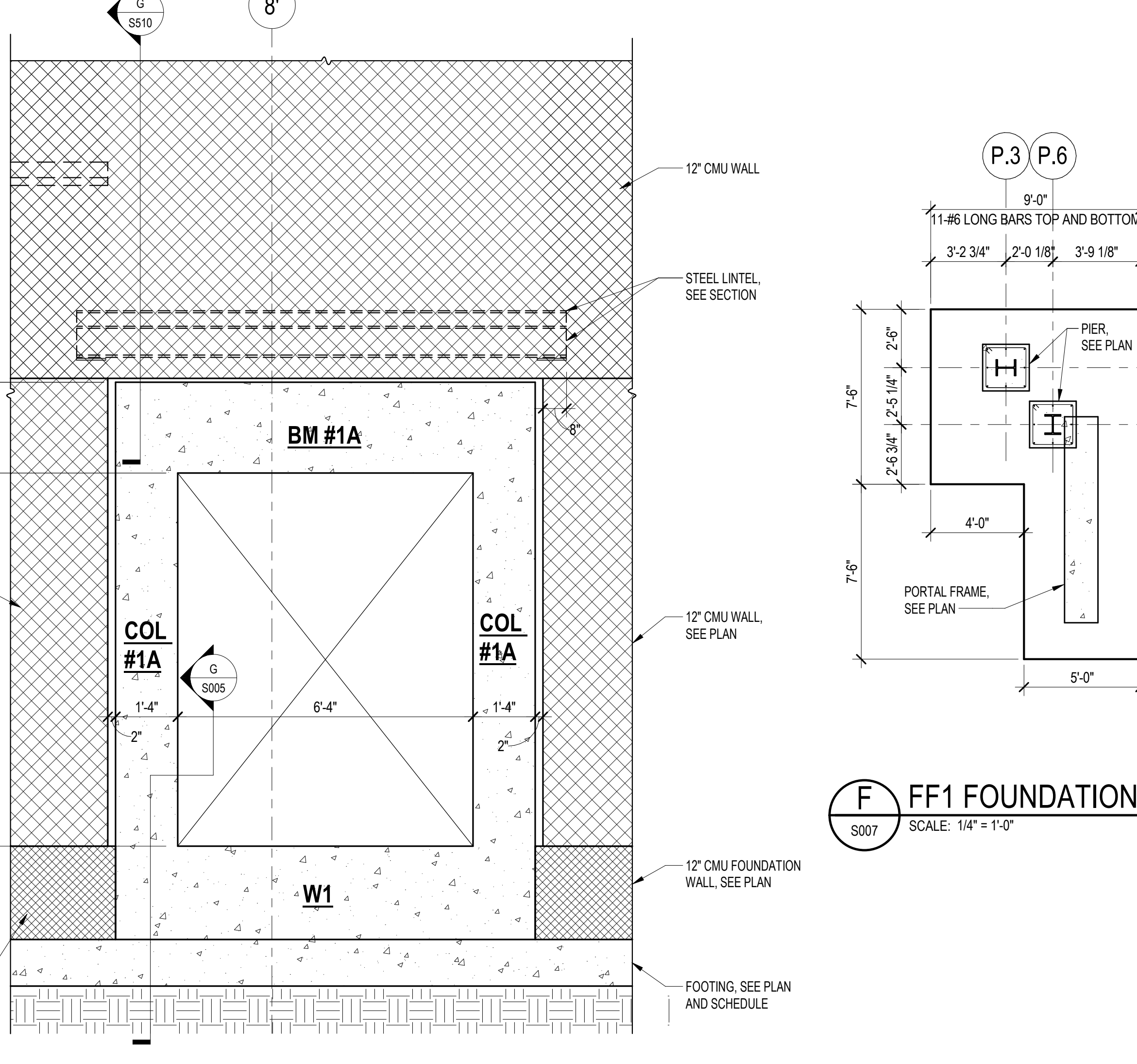
C PORTAL FRAME #1-H2

S007 SCALE: 1/2" = 1'-0"



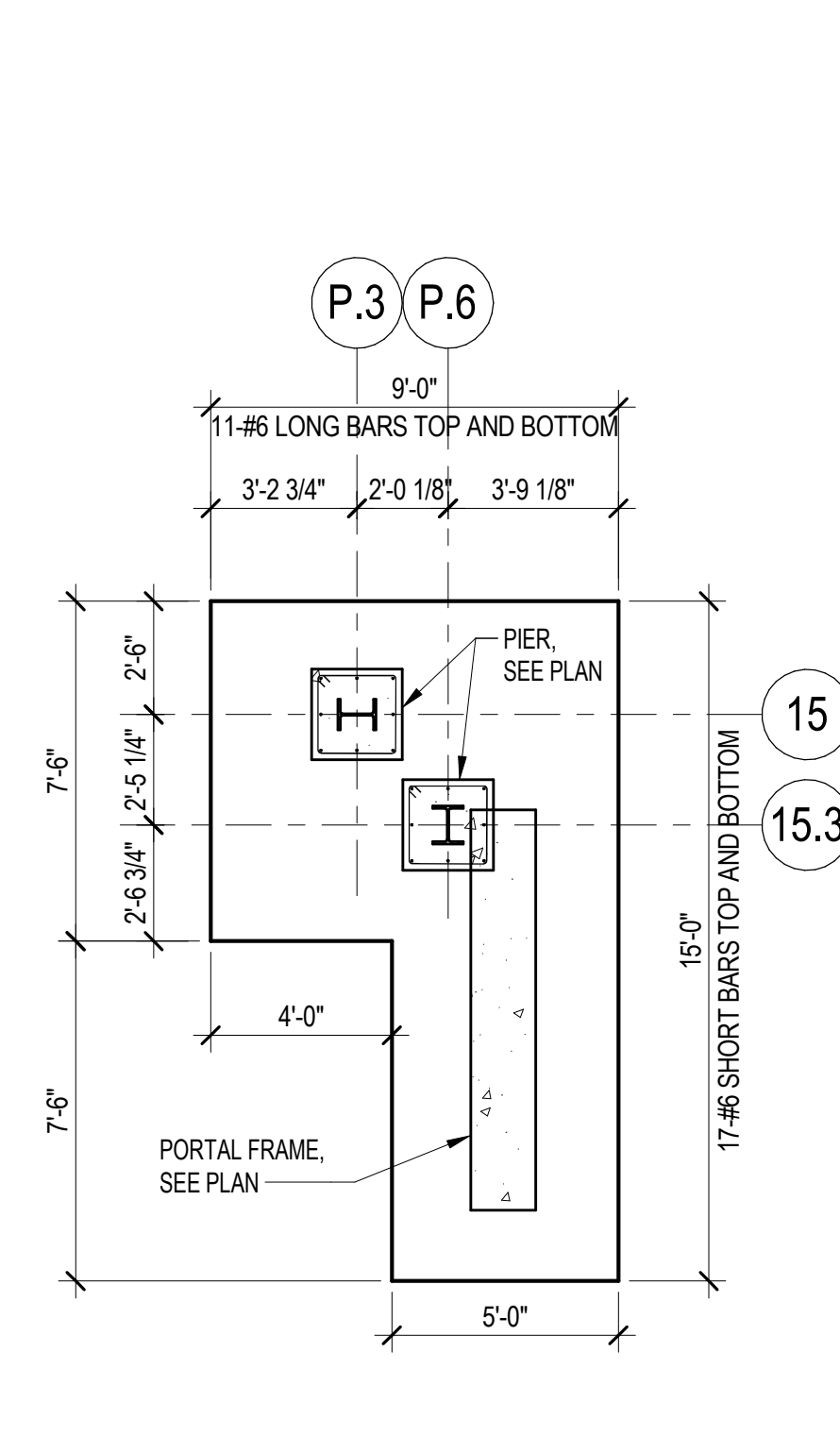
D PORTAL FRAME #1-H3

S007 SCALE: 1/2" = 1'-0"



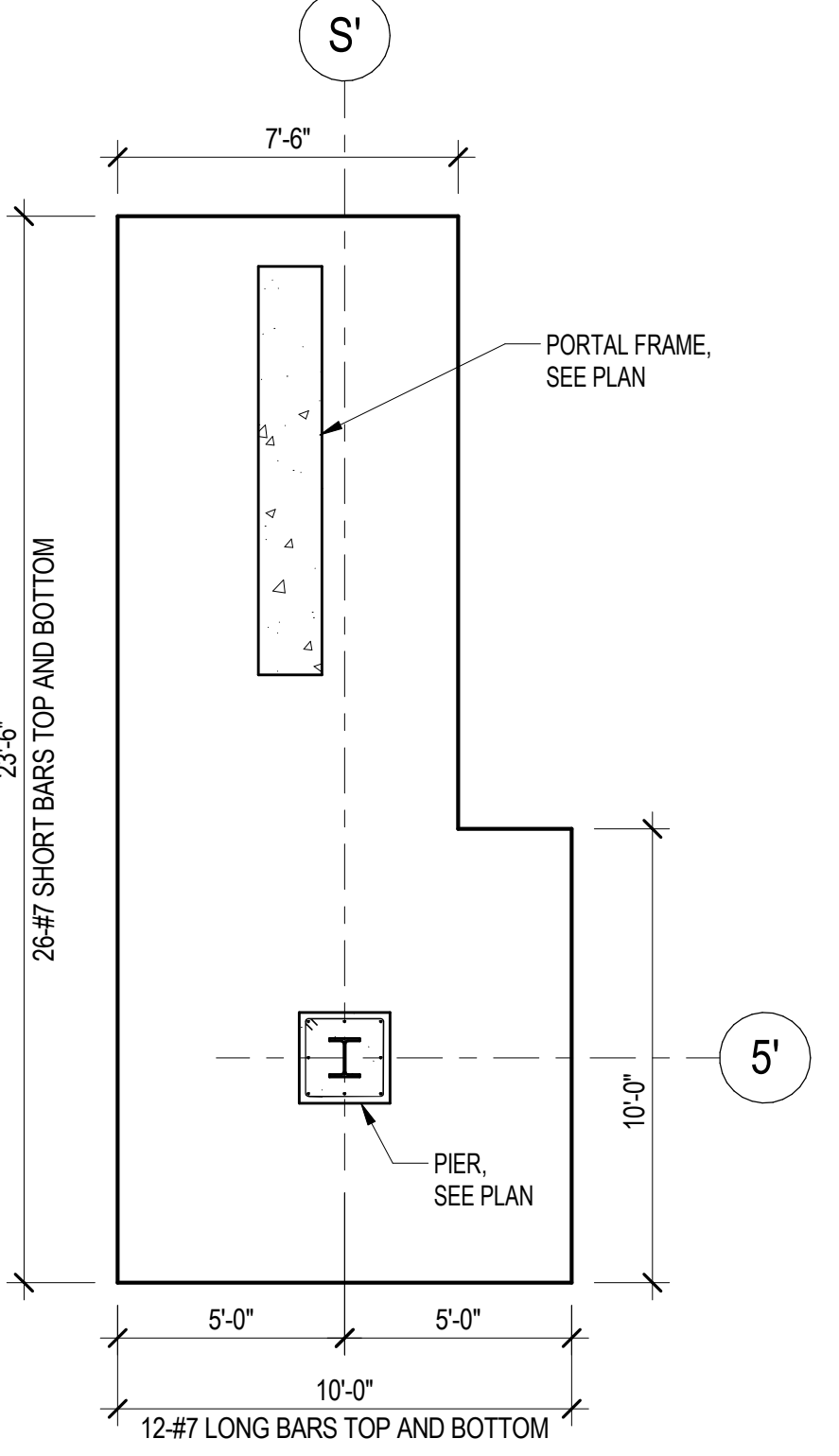
E PORTAL FRAME #1-F2

S007 SCALE: 1/2" = 1'-0"



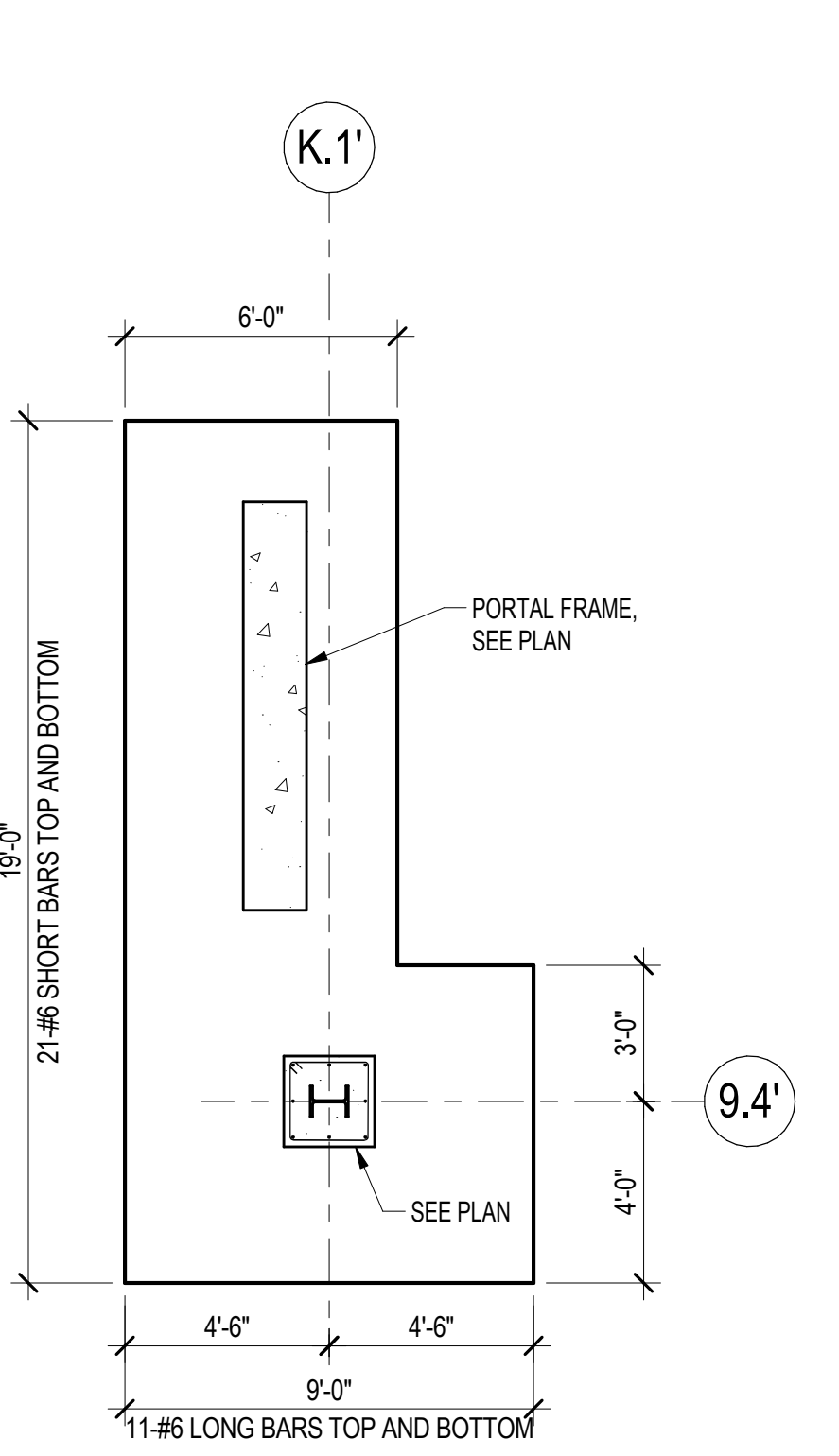
F FF1 FOUNDATION DETAILS

S007 SCALE: 1/4" = 1'-0"



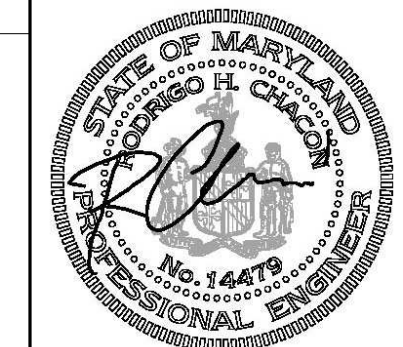
G FF2 FOUNDATION DETAILS

S007 SCALE: 1/4" = 1'-0"

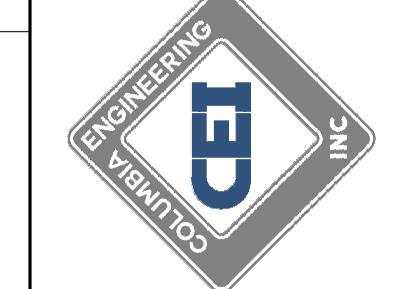


H FF3 FOUNDATION DETAILS

S007 SCALE: 1/4" = 1'-0"



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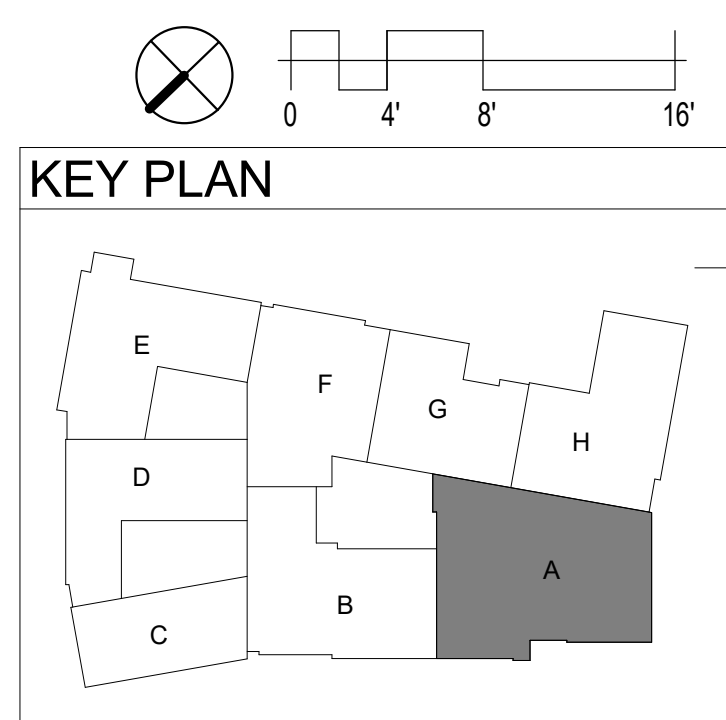


GP #22419
PSC #L12F064

PORTAL FRAMES
NEW COMBINATION HARFORD ACADEMY & ELEMENTARY SCHOOL
1605 EVA MAR BOULEVARD, BELAIR, MARYLAND

DATE	DESCRIPTION
01/23/26	ADDENDUM #2

S007
1/23/26
ADDENDUM #2
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FOUNDATION AND SLAB ON GRADE PLAN - AREA A
SCALE: 1/8" = 1'-0"

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

FOUNDATION AND SLAB ON GRADE PLAN NOTES

1. SLAB ON GRADE SHALL BE 8" THICK NORMAL WEIGHT CONCRETE (f_c=4000 PSI) REINFORCED WITH 5"x6" W2x1W2.1 W.W.F. ON 15 MILS POLYETHYLENE BARRIER OVER 4" THICK LAYER OF COARSE GRANULAR MATERIAL.
2. SLAB ON GRADE AT ELECTRICAL AND MECHANICAL ROOMS SHALL BE 8" THICK NORMAL WEIGHT CONCRETE (f_c=4000 PSI) REINFORCED WITH 5"x6" W2x2 W.W.F. ON 15 MIL POLY BARRIER OVER 4" THICK LAYER OF COARSE GRANULAR MATERIAL.
3. TOP OF SLAB ELEVATION SHALL BE 324.50 (DATUM = 0'-0") UNLESS NOTED OTHERWISE.
4. TOP OF CONCRETE PIER ELEVATION SHALL BE 8" BELOW TOP OF SLAB ON GRADE ELEVATION UNLESS NOTED OTHERWISE THUS: [] ON PLAN.
5. TOP OF FOOTING ELEVATION SHALL BE 2'-0" BELOW TOP OF SLAB ELEVATION UNLESS NOTED OTHERWISE THUS: [] ON PLAN. ELEVATIONS SHOWN ARE FOR BID PURPOSES ONLY AND MAY HAVE TO BE FIELD ADJUSTED LOWER ALL FOOTINGS AS REQUIRED BELOW UTILITY LINES.
6. PROVIDE 1x4x3'-0" LONG AT MID DEPTH OF SLAB ON GRADE FOR ALL CORNERS OF CONSTRUCTION JOINTS THAT DO NOT HAVE A CONTROL OR CONSTRUCTION JOINT TERMINATING.
7. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF DERESSED SLAB AREAS.
8. EXTEND ALL WALL FOOTING REINFORCING 2'-0" INTO COLUMN FOOTING (TYPICAL).
9. STAIR AND ELEVATOR CMU WALLS SHALL BE REINFORCED WITH #5 AT 24" c.c. MINIMUM UNLESS NOTED OTHERWISE. MASONRY STAIR TOWERS SHALL HAVE 5"x6" BOND BEAMS REINFORCED WITH #4S CONTINUOUS AT 4'-0" c.c. MASONRY CONTROL JOINTS ARE NOT PERMITTED IN THE CMU STAIR WALLS.
10. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF INTERIOR NON-BEARING MASONRY WALLS.
11. REFER TO DETAIL LBS301 FOR ALL 8" INTERIOR MASONRY PARTITION WALL.
12. PROVIDE ADDITION SLAB REINFORCING AT WALL OPENINGS PER TYPICAL DETAIL FS103.
13. MASONRY SHEAR WALLS ARE SHOWN SHADED, REFER TO S004.
14. REFER TO S003 FOR COLUMN, CONCRETE PIER, MASONRY WALL AND FOOTING SCHEDULES.
15. APPROXIMATE LOCATION OF ELEVATOR SUMP PIT IS SHOWN ON PLAN. COORDINATE EXACT SIZE AND LOCATION WITH SELECTED ELEVATOR MANUFACTURER.

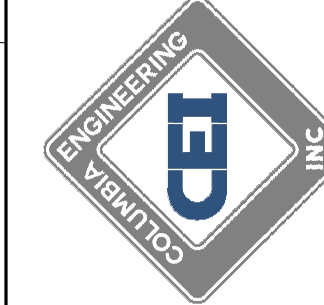
FOUNDATION AND SLAB ON GRADE PLAN - AREA A

FOUNDATION AND SLAB ON GRADE PLAN - AREA A

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