



LIC: AR94778

Addendum No. 2

Date: August 2, 2024

Project: Hillsborough County Sheriff's Office Regional Canine Training Facility

Owner: Hillsborough County Sheriff's Office
2214 North Falkenburg Road
Tampa, FL 33619

Architect: The Lunz Group
58 Lake Morton Drive
Lakeland, Florida 33801-5344

Architect's Project Number: 23164.01

The purpose of this addendum is to advise all interested parties of the following revisions and/or clarifications and to transmit the information as noted below. The addendum constitutes a part of the Contract Documents. Acknowledge receipt of this addendum on the Bid Proposal Form.

PART 1 GENERAL:

1. Note: All product color selections are to be made by owner/architect during the shop drawing phase of the project.
2. Toilet partitions are to be equivalent to Bobrick Floor Mounted, Overhead Braced system with plastic laminated panels and doors.
3. Tile to be equivalent to:
Floor Tile: Dal Tile 12" x 12" Volume 1.0 porcelain series.
Shower Floor Tile: Dal Tile Keystone ceramic 2"x2"
Wall Tile: Dal Tile Color Wheel Classic Series, 4"x4" tile with 4"x4" bullnose.
4. Surface applied Stone: to be equivalent to J&N Stone, Wisconsin Laytite Stone series.
5. Vertical Window Blinds: to be equivalent to Levelor Classic Fabric Vertical Blinds, surface mounted with valence.
6. Bahama Shutters: to be equivalent to Reliable Shutter Co., Bahama Ultra-View aluminum shutters.

7. Interior Insulation: in furring space against masonry to be equivalent to Owens Corning 2.5" extruded polystyrene rigid insulation board. Provide at all locations where the masonry separates conditioned from non-conditioned space.
8. Solid Surface Countertops: to be equivalent to Wilsonart, solid surface, medium particulate design group.
9. Dog bath: to be provided and installed by G.C., equivalent to Vevor 62" stainless steel dog grooming tub w/ soap box, Faucet, Rich Accessory and retractable ramp.
10. All plumbing fixtures in restrooms to be electronic infrared fixtures, including lavatories, urinals, and toilets.

PART 2 DRAWINGS:

The complete set of drawings are being re-submitted to simplify the bidding process. All sheets that have the Revision Triangle number 1 and labeled as Addendum #2 have been modified. The following is an abbreviated summary of these changes.

G-000 Cover Sheet: Updated drawing dates and added new sheets.

G-001: Updated drawing dates Code Data and added new sheets.

G-002: New Sheet - Added U.L. details.

G-003: New Sheet - Added U.L. details.

G-500: Revised/updated wall types.

G-501: New Sheet - added additional wall types.

G-600: Updated General Note #5.

S-000: No changes

S-001: Structural cold formed steel framing was removed from general notes since material was removed from project.

S-002: No Changes.

S-003: No Changes.

S-101: Partition walls and footings were added in the kennel area. CMU pilasters at South end shifted position to reduce beam spans above. Revised footings For entry columns/pilasters due to update in area. Added dumpster enclosure plan.

S-102: Revised perimeter beams at kennel area to be precast lintels instead of steel beams. Removed concrete tie beams across the project and replaced them with masonry bond beams. Revised steel beam connection details to CMU walls due to removal of concrete tie beams.

S-103: No changes.

S-201: Added foundation detail #18 for short CMU partitions walls at kennels.

- S-202: Added lintel schedule. Revised precast lintel schedule to CMU lintels.
Added dumpster enclosure and bollard details.
- S-203: Revised details to replace concrete tie beams with CMU bond beams.
- S-204: Revised details to replace concrete tie beams with CMU bond beams.
- S-205: Added steel angle lintel details.
- S-206: No changes.
- S-301: No changes.
- S-401: New sheet added to set indicating locations of steel angles supporting split-face block lintels.
- LS-101: Updated the Life Safety plan for permitting purposes.
- A-001: Added dumpster enclosure plans/elevations.
- A-102: Update overall plan and clarified split-face block locations and elevations.
Set masonry walls to masonry dimensions where possible.
- A-103: Updated Dimensional Overall Floor Plan – added dimensions, update storefront at entry requiring steel columns, etc.
- A-110: Enlarged Admin Plan – updated wall tags, storefront at entry, fire wall locations, fire extinguishers, interior walls extending to roof deck at Multi-Use Meeting Room, clarified gypsum board finish to be smooth level 4.
- A-111: Dimensional Enlarged Admin Plan – updated and added dimension strings.
- A-112: Enlarged Kennel Plan: Clarified split-face masonry locations and heights, added guillotine doors at dog pens, indicated dog pen openings, located fire extinguishers, modified floor slopes to floor and trench drains, description of guillotine doors and dog kennels were added on General Notes #12 and #13. Roof hatch, stucco ceiling roof hatch and roof access ladder have been added.
- A-113: Enlarged Dimensional Kennel Plan: dimensions have been added and most CMU walls were adjusted to block coursing.
- A-114: New Sheet – Clerestory plan is added and clarified to be smooth CMU with stucco finish on the exterior.
- A-120: Reflected Ceiling Plan: Pull down water hose reels were added (3 total) in the kennel area. Since they have not been selected, we request a \$7,500 budget be set aside. A suspended stucco ceiling system was added in the kennel area except where structure is exposed. Please note that all exposed structure shall receive dry fall paint.
- A-150: Roof Plan – internal roof drains were changed to scuppers, emergency overflows, conductors and downspouts. Six exhaust fans (total) were added to open air Kennels A and B at dog kennels. Downspouts and gutters are clarified.

- A-201: Exterior Elevations: split-face block locations and stucco locations are clarified. Downspouts, gutters, etc. are indicated.
- A-301: Building Sections: split-face block locations verified, wall finishes are indicated in Kennel areas. Dog pens are indicated.
- A-401, 402, and 403: Interior elevations, tile wainscot etc. clarified, millwork details are keyed, toilet accessories have been updated to HCSO standards.
- A-404: Enlarged Plans and Interior Elevations: the dog kennel pens have been updated and specified, low masonry demising walls of pens are clarified at 5'-4" aff. Finishes are clarified.
- A-501, 502, 503, 504, and 505 (New sheets): Wall sections have been updated to reflect structural changes, elimination of internal roof drains at kennel, elimination of perimeter steel beams at kennel, elimination of cold rolled metal parapet replaced by masonry, clarifies finishes at specific locations.
- A-506: Updated window and door details. Please note that ground floor windows at the kennel area have been changed from aluminum storefront to hollow metal frames with heavy duty bird and bug screens (see detail #4).
- A-510: ADA Interior Details (typical): No changes.
- A-520: Ceiling Details: No changes.
- A-550: Roof Details (new sheet).
- A-551, 552 (New sheets): Typical roof details have been added.
- A-700: Millwork Details: Revised detail.
- A-800: Door Schedules and Notes: Sheet has been updated.
- A-900: Room Finish Schedule: Sheet has been updated. Added signage schedule and details to meet HCSO standards. Note: all floors, base and walls in all dog kennel areas to receive epoxy systems – see attached specification 096723 Resinous Flooring and Walls.
- A-910: Finish Floor Plan: Sheet has been updated. **NOTE: OWNER TO PROVIDE AND INSTALL ALL FLOORING/BASE** except tile, epoxies, and sealers.
- M-001: Mechanical Notes, Legends & Symbols: No changes.
- M-002: Mechanical Notes: No changes.
- M-101: Mechanical Floor Plan: Added exhaust fans over non-conditioned kennel area and modified air balance for AHU-2
- M-102: Mechanical Roof Plan: Added roof caps for exhaust fans over non-conditioned kennel area.
- M-501: Mechanical Details – No changes.
- M-502: Mechanical Details – No changes.
- M-601: Mechanical Schedules – Updated Schedules.

- M-602: Mechanical Schedules – Updated Schedules.
- P-001: Plumbing Notes, Legends, & Abbreviations: No Changes
- P-101: Sanitary and Vent Piping – Floor Plan: Updated S-2 in Bite Suit & Food Storage 120.
- P-201: Domestic Water Piping – Floor Plan: Updated domestic cold and hot water pipe sizes.
- P-301: Plumbing Roof Plan: Updated roof plan to reflect the added exhaust fans over the non-conditioned kennel area.
- P-401: Plumbing Enlarged Plans: Updated cold and hot water pipe sizes.
- P-501: Plumbing Details: No changes
- P-601: Plumbing Schedules: Updated schedules.
- P-901: Plumbing Schedules: Updated domestic cold and hot water pipe sizes.
- E-000: Electrical Legends & Abbreviations: Update symbol legend for door hardware.
- E-001: Electrical Site Plan: No Changes.
- E-002: Electrical Site Photometrics: No Changes.
- E-101: Lighting Floor Plan: Added W/WE exterior fixtures (5 additional exterior fixtures added) to match site photometric design. Added fixtures in hallway 100B and in Multi-Use Meeting Room 101.
- E-201: Power Floor Plan: Added Circuit for P-8 ice maker in Kennel 206. Added power for new exhaust fans, EF-5-10. Added power provisions for future hose reel booster pumps, refer to keynote #16 for details.
- E-202: Roof Power Plan: No Changes.
- E-301: Special Systems Floor Plan: Security door hardware and camera locations provided by owner (junction boxes and conduits stubbed above ceiling by G.C.). Door access device locations have been updated and camera locations have been added. Keynote #7 and #8 have been modified. Revised general notes (B), (M), and (P).
- E-501: Electrical Details: No Changes.
- E-502: Electrical Details: No Changes.
- E-503: Security Door Access Details: Security access details by owner and have been included for reference.
- E-601: Electrical Riser Diagram & Schedules: Drawing has been updated to include the infrared controlled plumbing fixtures in restrooms.
- E-701: Electrical Schedules: Added GFCI circuit to panel P-8 for icemaker in Kennel. Panel R-7 circuit breaker to GFCI for icemaker in breakroom. Added R-21 for new exhaust fans at non-conditioned kennel areas. Added circuit provision for future hose reel booster pumps in panel schedule "P".

E-702: Electrical Schedules: Modified lighting fixture schedule to include W1 and W1E (same fixture as W and WE) with adjustable lumen output.

F-001: Fire Protection Notes & Legends: Modified Details.

F-101: First Floor Fire Protection: No Changes.

PART 3 SPECIFICATIONS:

Section 08711: See attached for updated door hardware.

Section 096723: See new specification for Resinous Flooring and Walls.

Section 101423: See new specification for Signage.

Enclosures:

Specifications:

087100 Door Hardware
096723 Resinous Flooring and Walls
101423 Panel Signage

Drawings:

Entire Set (See drawing G-001 for drawing Index)

End of Addendum No. 2

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes commercial door hardware for the following:
1. Swinging doors.
 2. Sliding doors.
 3. Other doors to the extent indicated.
- B. Door hardware includes, but is not necessarily limited to, the following:
1. Mechanical door hardware.
 2. Cylinders specified for doors in other sections.
- C. Related Sections:
1. Division 06 Section "Rough Carpentry".
 2. Division 06 Section "Finish Carpentry".
 3. Division 08 Section "Operations and Maintenance".
 4. Division 08 Section "Door Schedule".
 5. Division 08 Section "Door Hardware Schedule".
 6. Division 08 Section "Hollow Metal Doors and Frames".
 7. Division 08 Section "Flush Wood Doors".
 8. Division 08 Section "Aluminum-Framed Entrances and Storefronts".
- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
 2. ANSI/SDI A250.13 - Testing and Rating of Severe Windstorm Resistant Components for Swing Door Assemblies.
 3. ICC/IBC - International Building Code.
 4. NFPA 70 - National Electrical Code.
 5. NFPA 80 - Fire Doors and Windows.
 6. NFPA 101 - Life Safety Code.
 7. NFPA 105 - Installation of Smoke Door Assemblies.
 8. TAS-201-94 - Impact Test Procedures.

9. TAS-202-94 - Criteria for Testing Impact and Non-Impact Resistant Building Envelope Components using Uniform Static Air Pressure.
10. TAS-203-94 - Criteria for Testing Products Subject to Cyclic Wind Pressure Loading.
11. State Building Codes, Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:

1. ANSI/BHMA Certified Product Standards - A156 Series.
2. UL10C - Positive Pressure Fire Tests of Door Assemblies.
3. ANSI/UL 294 - Access Control System Units.
4. UL 305 - Panic Hardware.
5. ANSI/UL 437- Key Locks.

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 - h. Warranty information for each product.
4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data,

Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

- C. Proof of Qualification: Provide copy of manufacturer(s) Factory Trained Installer documentation indicating proof of status as a qualified installer of tornado or hurricane storm shelter assemblies.
- D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.
- E. Informational Submittals:
 - 1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

1.4 CLOSEOUT SUBMITTALS

- A. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.
- B. Project Record Documents: Provide record documentation of as-built door hardware sets in digital format (.pdf, .docx, .xlsx, .csv) and as required in Division 01, Project Record Documents.

1.5 QUALITY ASSURANCE

- A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.
- B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).
- C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during

the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

- E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.
 - 1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.

- F. Hurricane Resistant Exterior Openings (State of Florida including the High Velocity Hurricane Zone (HVHZ)): Provide exterior door hardware as complete and tested assemblies, or component assemblies, including approved doors and frames specified under Section 081113 "Hollow Metal Doors and Frames", to meet the design pressures, debris impact resistance, and glass and glazing requirements as detailed in the current State of Florida building code sections applicable to the Project.
 - 1. Each unit to bear third party permanent label in accordance with the Florida Building Code requirements.

- G. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.

- H. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
 - 1. Function of building, purpose of each area and degree of security required.
 - 2. Plans for existing and future key system expansion.
 - 3. Requirements for key control storage and software.
 - 4. Installation of permanent keys, cylinder cores and software.
 - 5. Address and requirements for delivery of keys.

- I. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.
 - 1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
 - 2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
 - 3. Review sequence of operation narratives for each unique access controlled opening.
 - 4. Review and finalize construction schedule and verify availability of materials.
 - 5. Review the required inspecting, testing, commissioning, and demonstration procedures

- J. At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.7 COORDINATION

- A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
- B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.8 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
 - 1. Structural failures including excessive deflection, cracking, or breakage.
 - 2. Faulty operation of the hardware.
 - 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 - 4. Electrical component defects and failures within the systems operation.
- C. Warranty Period: Unless otherwise indicated, warranty shall be one year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 BUTT HINGES

- A. Hinges: ANSI/BHMA A156.1 butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.
1. Quantity: Provide the following hinge quantity:
 - a. Two Hinges: For doors with heights up to 60 inches.
 - b. Three Hinges: For doors with heights 61 to 90 inches.
 - c. Four Hinges: For doors with heights 91 to 120 inches.
 - d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
 2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
 - a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
 - b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.
 3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
 - a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
 - b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.
 4. Hinge Options: Comply with the following:
 - a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.
 5. Manufacturers:
 - a. Hager Companies (HA) - BB Series, 5-knuckle.
 - b. McKinney (MK) - TA/T4A Series, 5-knuckle.

2.2 CONTINUOUS HINGES

- A. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 continuous geared hinge. with minimum 0.120-inch thick extruded 6063-T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.
1. Where specified, provide modular continuous geared hinges that ship in two or three pieces and form a single continuous hinge upon installation.
 2. Manufacturers:.

- a. Pemko (PE).
- b. Select Hinges (SL).

2.3 DOOR OPERATING TRIM

A. Flush Bolts and Surface Bolts: Provide products conforming to ANSI/BHMA A156.3 and A156.16, Grade 1.

- 1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
- 2. Furnish dust proof strikes for bottom bolts.
- 3. Surface bolts to be minimum 8" in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
- 4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.
- 5. Manufacturers:
 - a. Burns Manufacturing (BU).
 - b. Rockwood (RO).
 - c. Trimco (TC).

B. Door Push Plates and Pulls: ANSI/BHMA A156.6 door pushes and pull units of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.

- 1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
- 2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
- 3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
- 4. Pulls, where applicable, shall be provided with a 10" clearance from the finished floor on the push side to accommodate wheelchair accessibility.
- 5. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets. When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
- 6. Manufacturers:
 - a. Rockwood (RO).
 - b. Trimco (TC).

2.4 CYLINDERS AND KEYING

A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:

1. Threaded mortise cylinders with rings and cams to suit hardware application.
2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
4. Tubular deadlocks and other auxiliary locks.
5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
6. Keyway: Manufacturer's Standard.

C. Keying System: Each type of lock and cylinders to be factory keyed.

1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. New System: Key locks to a new key system as directed by the Owner.

D. Key Quantity: Provide the following minimum number of keys:

1. Change Keys per Cylinder: Two (2)
2. Master Keys (per Master Key Level/Group): Five (5).
3. Construction Keys (where required): Ten (10).

E. Construction Keying: Provide construction master keyed cylinders.

F. Key Registration List (Bitting List):

1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
2. Provide transcript list in writing or electronic file as directed by the Owner.

2.5 MORTISE LOCKS AND LATCHING DEVICES

A. Mortise Locksets, Grade 1 (Heavy Duty): Provide ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed mortise locksets. Listed manufacturers shall meet all functions and features as specified herein.

1. Manufacturers:
 - a. ASSA ABLOY ACCENTRA, formerly known as Yale (YA) - 8800FL Series.
 - b. Corbin Russwin Hardware (RU) - ML2000 Series.
 - c. Sargent Manufacturing (SA) - 8200 Series.

2.6 LOCK AND LATCH STRIKES

A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

B. Standards: Comply with the following:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.

2.7 CONVENTIONAL EXIT DEVICES

A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:

1. Exit devices shall have a five-year warranty.
2. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
3. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
4. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
5. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
6. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
 - a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
 - b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.
7. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
8. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
9. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.

10. Rail Sizing: Provide exit device rails factory sized for proper door width application.
11. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.

B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed exit devices. Listed manufacturers shall meet all functions and features as specified herein.

1. Manufacturers:
 - a. ASSA ABLOY ACCENTRA, formerly known as Yale (YA) - 7000 Series.
 - b. Corbin Russwin Hardware (RU) - ED4000 / ED5000 Series.
 - c. Sargent Manufacturing (SA) - 80 Series.

2.8 DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:

1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Large Body Cast Iron): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control.

1. Large body cast iron surface mounted door closers shall have a 30-year warranty.
2. Manufacturers:
 - a. Corbin Russwin Hardware (RU) - DC8000 Series.
 - b. Norton Rixson (NO) - 9500 Series.
 - c. Sargent Manufacturing (SA) - 281 Series.

- C. Door Closers, Overhead Concealed (Narrow Profile): ANSI/BHMA 156.4 Grade 1 Certified Products Directory (CPD) listed door closers designed for narrow profile frames and doors. Closers to have fully concealed body in the frame head for offset hung applications, with separate and independent valves for closing speed and backcheck adjustments and a decorative cover plate.

- 1. Manufacturers:
 - a. Norton Rixson (RF) - 91DCP Series.

2.9 ARCHITECTURAL TRIM

A. Door Protective Trim

- 1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
- 2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.
- 3. Where plates are applied to fire rated doors with the top of the plate more than 16" above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer's catalog and template book for specific requirements for size and applications.
- 4. Protection Plates: ANSI/BHMA A156.6 protection plates (kick, armor, or mop), fabricated from the following:
 - a. Stainless Steel: 300 grade, 050-inch thick.
- 5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
- 6. Manufacturers:
 - a. Burns Manufacturing (BU).
 - b. Rockwood (RO).
 - c. Trimco (TC).

2.10 DOOR STOPS AND HOLDERS

- A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.
- B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.
 - 1. Manufacturers:

- a. Hager Companies (HA).
 - b. Rockwood (RO).
 - c. Trimco (TC).
- C. Overhead Door Stops and Holders: ANSI/BHMA A156.8, Grade 1 Certified Products Directory (CPD) listed overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.
1. Manufacturers:
 - a. Norton Rixson (RF).
 - b. Rockwood (RO).
 - c. Sargent Manufacturing (SA).

2.11 ARCHITECTURAL SEALS

- A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.
- B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.
 1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.
- C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.
 1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NFPA 252, Standard Methods of Fire Tests of Door Assemblies.
- D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.
- E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- F. Hurricane and Storm Shelter Compliance: Devices to be U.L. listed for windstorm assemblies where applicable. Provide the appropriate hurricane or storm shelter products that have been independently third party tested, certified, and labeled to meet state and local windstorm building codes applicable to project.
- G. Manufacturers:

1. National Guard Products (NG).
2. Pemko (PE).
3. Zero (ZE).

2.12 FABRICATION

- A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.13 FINISHES

- A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.
- B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware
- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

- A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.
- B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

- A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.

1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.
- B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
 2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
 3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
 4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.
- C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
- D. Push Plates and Door Pulls: When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
- E. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."
- F. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL

- A. Field Inspection (Punch Report): Reference Division 01 Sections "Closeout Procedures". Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.
 1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

3.5 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to

operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.6 CLEANING AND PROTECTION

- A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.
- B. Clean adjacent surfaces soiled by door hardware installation.
- C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

- A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

- A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

- 1. Quantities listed are for each pair of doors, or for each single door.
- 2. The supplier is responsible for handing and sizing all products.
- 3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
- 4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.

- B. Manufacturer's Abbreviations:

- 1. MK - McKinney
- 2. PE - Pemko
- 3. RO - Rockwood
- 4. SA - SARGENT
- 5. AD - Adams Rite
- 6. RF - Rixson

Hardware Sets

Set: 1.0

Doors: 100

Description: EXT LOBBY PR - ALUM

2 Continuous Hinge - Pemkonnnect	CFMXXHD1-M		PE
1 Exit Device (nightlatch)	AD8410 106	US32D	SA
1 Concealed Vert Rod Exit, Exit Only	AD8410 EO	US32D	SA
2 Door Pull	BF168	US32D	RO
2 Concealed Closer	91NDCP 90N	626	RF
2 Door Stop	480	US26D	RO
1 Gasketing	by door / frame mfg		
1 Threshold	2005AT MSES25SS		PE

Notes:

Hardware listed for design criteria, confirm with specific door manufacturer the hardware requirements to meet specified windstorm rating - Provide 3rd party test results for confirmation.

Set: 2.0

Doors: 100B, 100C

Description: EXT CORR - ALUM

1 Continuous Hinge - Pemkonnnect	CFMXXHD1-M		PE
1 Exit Device (storeroom)	AD8504 Less Pull	US32D	SA
1 Door Pull	BF168	US32D	RO
1 Concealed Closer	91NDCP 90N	626	RF
1 Door Stop	480	US26D	RO
1 Gasketing	by door / frame mfg		
1 Threshold	2005AT MSES25SS		PE

Set: 3.0

Doors: 102A

Description: EXT BREAK - ALUM

1 Continuous Hinge - Pemkonnnect	CFMXXHD1-M		PE
1 Deadlatch	4900 X 4591	628	AD
1 Cylinder	as required - Key to existing	US32D	SA

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2 Door Pull [Straight}	RM3300-24	US32D	RO
1 Concealed Closer	91NDCP 90N	626	RF
1 Door Stop	480	US26D	RO
1 Gasketing	by door / frame mfg		
1 Threshold	2005AT MSES25SS		PE

Notes:

Set: 4.0

Doors: 210, 210A, 210B

Description: EXT KENNEL PR

6 Hinge, Full Mortise, Hvy Wt	T4A3386 X NRP 4-1/2" x 4-1/2"	US32D	MK
1 Mullion	L980S	PC	SA
1 Exit Device (storeroom)	8804 ETP	US32D	SA
1 Exit Device (exit only)	8810 ETP	US32D	SA
1 Cylinder	980C1	US26D	SA
2 Surface Closer	281 CPSH	EN	SA
2 Kick Plate	K1050 10" X 2" LDW	US32D	RO
2 Astragal	S772BL [mtg on mull]		PE
1 Gasketing	303AS		PE
1 Rain Guard	346C x LAR		PE
2 Sweep	3452AV		PE
1 Threshold	2005AT MSES25SS		PE

Set: 5.0

Doors: 119, 120

Description: EXT MEP / STOR - PR

6 Hinge, Full Mortise	TA2314 x NRP 4-1/2" x 4-1/2"	US32D	MK
2 Surface Bolt	988 / 580-8	Bright Zinc	SA
1 Storeroom Deadbolt Lock	8251 LNP	US26D	SA
2 Door Closer	281 CPS	EN	SA
2 Armor Plate	K1050 36" X 2" LDW	US32D	RO
1 Astragal	357SP X S88BL		PE
1 Gasketing	S88BL X LAR		PE
1 Rain Guard	346C x LAR		PE

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2 Sweep	3452AV		PE
1 Threshold (Heavy Duty)	2715AK MSES25SS		PE

Set: 6.0

Doors: 101B, 118

Description: EXT - MEP

3 Hinge, Full Mortise, Hvy Wt	T4A3386 X NRP 4-1/2" x 4-1/2"	US32D	MK
1 Exit Lock	8225 LNP	US32D	SA
1 Door Closer	281 CPS	EN	SA
1 Armor Plate	K1050 36" X 2" LDW	US32D	RO
1 Gasketing	S88BL X LAR		PE
1 Rain Guard	346C x LAR		PE
1 Sweep	3452AV		PE
1 Threshold (Heavy Duty)	2715AK MSES25SS		PE

Notes: Hardware listed for design criteria, confirm with specific door manufacturer the hardware requirements to meet specified windstorm rating - Provide 3rd party test results for confirmation.

Set: 7.0

Doors: 119A

Description: MEP PR

6 Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
2 Flush Bolt	555 [12" / 72" AFF]	US26D	RO
1 Dust Proof Strike	570	US26D	RO
1 Storeroom Lock	8204 LNP	US26D	SA
2 Door Closer	281 Reg / PA	EN	SA
2 Kick Plate	K1050 10" X 2" LDW	US32D	RO
2 Door Stop	409 / 446 as required	US26D	RO
1 Astragal	357SP X S88BL		PE
1 Gasketing	S88BL X LAR		PE

Set: 8.0

Doors: 100A, 101, 101A

Description: ENTRY - ALUM

1 Continuous Hinge - Pemconnect	CFMXXHD1-M		PE
1 Mortise Lock	2190 3-Low Profile Trim 01-Curve	US32D	AD

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1 Cylinder	as required - Key to existing	US32D	SA
1 Concealed Closer	91NDCP 90N	626	RF
1 Door Stop	409 / 446 as required	US26D	RO
1 Gasketing	by door / frame mfg		

Set: 9.0

Doors: 204A, 204B, 205, 206, 207A, 207B, 208A, 208B

Description: KENNEL - ALUM

1 Continuous Hinge - Pemkconnect	CFMXXHD1-M		PE
1 Deadlatch	4900 X 4591	628	AD
1 Cylinder	as required - Key to existing	US32D	SA
2 Door Pull	BF168	US32D	RO
1 Concealed Closer	91NDCP 90N	626	RF
1 Door Stop	409 / 446 as required	US26D	RO
1 Gasketing	by door / frame mfg		

Set: 10.0

Doors: 113, 114

Description: RESTROOM

3 Hinge, Full Mortise, Hvy Wt	T4A3786 4-1/2" x 4-1/2"	US26D	MK
1 Pull Plate	BF 110 x 70C	US32D	RO
1 Push Plate	70C	US32D	RO
1 Door Closer	281 Reg / PA	EN	SA
1 Mop Plate	K1050 4" X 1" LDW	US32D	RO
1 Kick Plate	K1050 10" X 2" LDW	US32D	RO
1 Door Stop	409 / 446 as required	US26D	RO
1 Gasketing	S88BL X LAR		PE

Set: 11.0

Doors: 105, 107, 109, 111, 116, 117

Description: STOR

3 Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom Lock	8204 LNP	US26D	SA
1 Door Stop	409 / 446 as required	US26D	RO
3 Silencer	608		RO

Set: 12.0

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Doors: 112

Description: JAN

3 Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom Lock	8204 LNP	US26D	SA
1 Surf Overhead Stop	10-X36	689	RF
1 Kick Plate	K1050 10" X 2" LDW	US32D	RO
1 Gasketing	S88BL X LAR		PE

Set: 13.0

Doors: 104, 106, 110, 115

Description: OFFICE

3 Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Office Lock	8205 LNP	US26D	SA
1 Door Stop	409 / 446 as required	US26D	RO
3 Silencer	608		RO

Set: 14.0

Doors: 102

Description: BREAK

3 Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Passage Latch	8215 LNP	US26D	SA
1 Door Closer	281 Reg / PA	EN	SA
1 Mop Plate	K1050 4" X 1" LDW	US32D	RO
1 Kick Plate	K1050 10" X 2" LDW	US32D	RO
1 Door Stop	409 / 446 as required	US26D	RO
1 Gasketing	S88BL X LAR		PE
3 Silencer	608		RO

Set: 15.0

Doors: 108

Description: COPY

3 Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Passage Latch	8215 LNP	US26D	SA
1 Door Stop	409 / 446 as required	US26D	RO
3 Silencer	608		RO

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END OF SECTION 087100

SECTION 096723 - RESINOUS FLOORING

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Urethane slurry flooring system. (Polycrete Elladur 4850)

1.2 RELATED SECTIONS

- A. Section 03 30 00 - Cast-in-Place Concrete.

1.3 REFERENCES

- A. ACI 503R - Adhesives for Concrete.
- B. ASTM International (ASTM):
 1. ASTM C 190 - Method of Test for Tensile Strength of Hydraulic Cement Mortars.
 2. ASTM C 293 - Standard Test Method for Flexural Strength of Concrete (Using Simple Beam With Center-Point Loading).
 3. ASTM C 307 - Standard Test Method for Tensile Strength of Chemical-Resistant Mortar, Grouts, and Monolithic Surfacing.
 4. ASTM C 579 - Standard Test Methods for Compressive Strength of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes.
 5. ASTM C 580 - Standard Test Method for Flexural Strength and Modulus of Elasticity of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes.
 6. ASTM C 884 - Standard Test Method for Thermal Compatibility Between Concrete and an Epoxy-Resin Overlay.
 7. ASTM D 412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension.
 8. ASTM D 638 - Standard Test Method for Tensile Properties of Plastics.
 9. ASTM D 790 - Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
 10. ASTM D 2240 - Standard Test Method for Rubber Property-Durometer Hardness.
 11. ASTM D 4060 - Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser.
- C. ICRI - International Concrete Repair Institute, Inc.
- D. MIL-D-3134J - Military Specification: Deck Covering Materials (05 Oct 1988).

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 1. Preparation instructions and recommendations.
 2. Storage and handling requirements and recommendations.
 3. Installation methods.
- C. System Data: Submit manufacturer's specifications on cured system and individual components of the Flooring System, including physical properties and performance properties and tests along with Material Safety Data Sheets. Each individual component of the system shall be evaluated on the basis of these standards. For any tests not listed in the manufacturer's standard nationally published data, the manufacturer shall supply the missing data accompanied by the independent testing laboratory's test results which prove compliance in accordance with the referenced standards. Furnish required number

of sets of this information for review.

- D. Shop Drawings: Submit details of construction; include relationship with adjacent construction.
- E. Selection Samples: For each finish product specified complete sets of color chips representing manufacturer's full range of available colors and patterns.
 - 1. Submit manufacturer's standard color chart. Computerized custom color matching shall be available upon request. Furnish required number of sets of this information for review and selection.
- F. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square representing actual product, color, and patterns.
 - 1. Submit a cured system sample which the Contractor has made for verification purposes and finish texture approval.
- G. Contractor Experience: The Contractor shall furnish a list of projects using either specified material or equivalent that they have installed during the last three years. Information shall include: project name, square footage, owner contact name with owner's address and phone number. Also, the contractor shall furnish resumes detailing the experience of key project personnel including supervisors and mechanics.
- H. Installer Certificates for Qualification: Signed by manufacturer certifying that installers comply with specified requirements.
- I. Manufacturer's Packing Slip: The Contractor shall submit a copy of the manufacturer's packing slip, tagged for the specific Project, along with calculations, signed by an officer of the primary material supplier demonstrating that the quantity of material furnished for the project will achieve the specified coverage and mil thickness.
- J. Maintenance Data: For maintenance manuals.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Obtain Flooring System materials from a single manufacturer with a minimum of five years verifiable experience providing materials of the type specified in this section.
- B. Installer Qualifications:
 - 1. Installation shall be performed by a manufacturer approved installer with skilled mechanics having not less than three years satisfactory experience in the installation of the type of system as specified in this section, and shall be approved in writing by the manufacturer of the flooring system.
 - 2. Installer shall be in good standing with the General Polymers.
- C. Source Limitations: Obtain primary resinous flooring materials, including primers, resins, hardening agents, grouting coats, and topcoats, from single source from single manufacturer. Provide secondary materials, including patching and fill material, joint sealant, and repair materials, of type and from source recommended by manufacturer of primary materials.
- D. Mockups: Apply mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution. Do not cover up mockup area.
 - 1. Apply full-thickness mockups on 16 square feet (1.5 sq. meters) floor area selected by Architect.
 - 2. Simulate finished lighting conditions for Architect's review of mockups.
 - 3. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.
 - 4. Mockup shall demonstrate desired slip resistance for review and approval by General

Contractor prior to installing project areas.

1.6 PRE-INSTALLATION MEETINGS

- A. Convene minimum two weeks prior to starting work of this section.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
- B. Primary system materials shall be delivered in the manufacturer's undamaged, unopened containers. Each container shall be clearly marked with the following:
 - 1. Product names and/or Numbers.
 - 2. Manufacturer's name.
 - 3. Component designation (A, B, etc.).
 - 4. Product Mix Ratio.
 - 5. Health and Safety Information.
 - 6. CHEMTREC Emergency Response Information.
- C. Provide equipment and personnel to handle the materials by methods which prevent damage.
- D. The Contractor shall promptly inspect direct jobsite material deliveries to assure that quantities are correct, comply with requirements and are not damaged.
- E. The Contractor shall be responsible for materials furnished and shall replace, at its expense, such materials that are found to be defective in manufacture or that have become damaged in transit, handling or storage.
- F. Store materials in accordance with manufacturer's instructions, with seals and labels intact and legible. Maintain temperatures within the required range. Do not use materials which exceed the manufacturer's maximum recommended shelf life.
- G. Handling: Handle materials to avoid damage.

1.8 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
- B. The Contractor shall visit the jobsite prior to the installation of the Flooring System to evaluate substrate condition, including substrate moisture transmission, quantity and severity of cracking, and the extent of repairs needed. Substrate imperfections should be repaired only after mechanical preparation of the substrate. Surface preparation reveals most imperfections requiring repair. Concrete substrates shall be tested to verify that the moisture vapor transmission of the substrate does not exceed the Flooring System manufacturers' recommendations. Cost associated with repair, leveling and remediation of the substrate are the responsibility of the provider of the substrate.
- C. The Contractor shall exercise care during surface preparation and system installation to protect surrounding substrates and surfaces, as well as in-place equipment. The Contractor shall prepare the substrate to remove laitance and open the surface. This shall be achieved by light brush grit blasting. Surface profile achieved shall be similar to medium grit sandpaper and free from bond-inhibiting contaminants.
- D. Concrete subfloor tolerances shall be in accordance with ACI 302. Each drain in the installation area

shall be working and raised or lowered to the actual finished elevation of the Flooring System.

- E. The minimum slab temperature shall be conditioned to 60 degrees F (16 degrees C) before commencing installation, during installation, and for at least 72 hours after installation is complete. The substrate temperature shall be at least 5 degrees F above the dew point during installation.
- F. Maintain lighting at a minimum uniform level of 50 or more foot candles in areas where the Flooring System is being installed.
- G. Leaks from pipes and other sources must be corrected prior to the installation of the Flooring System.

1.9 SEQUENCING

- A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

1.10 WARRANTY

- A. The Contractor and the manufacturer shall furnish a standard guarantee of the Flooring System for a period of one year after installation. The labor and material guarantee shall include loss of bond and wear-through to the concrete substrate from normal use.
- B. Not included in the warranty are damage due to structural design deficiencies including but not limited to slab cracking from lateral, vertical or rotational movement, and gouging or other damage due to fork lifts, other equipment, delamination caused by vapor transmission, Acts of God, or other elements beyond the scope of protection of this system nor causes not related to the system materials.
- C. In case of a warranty claim, the Owner shall notify the manufacturer and Contractor in writing within 30 days of the first appearance of problems covered under this Warranty. The Owner will provide free and unencumbered access to the area during normal working hours for repairs.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Sherwin-Williams, which is located at: 101 Prospect Ave.; Cleveland, OH 44115; Herb Mimler 352-304-0948; Email:[request info \(Herb.E.Mimler@sherwin.com\)](mailto:Herb.E.Mimler@sherwin.com); Web: industrial.sherwin-williams.com
- B. Substitutions: Not permitted.
- C. Herb Mimler, Sherwin Williams General Polymers 3523040948 Herb.e.Mimler@sherwin.com
- D. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

2.2 URETHANE SLURRY FLOORING SYSTEM

- A. Product: Sherwin-Williams Polycrete URETHANE SLURRY FLOORING SYSTEM as manufactured by Sherwin-Williams with Cove consists of:
 - 1. The total system thickness shall be a 3/16 inch nominal.
 - 2. Color and Pattern: As indicated from manufacturers listed offerings.
 - 3. Primer Optional: 3477 Epoxy Water Emulsion Primer Sealer for outgassing,
 - 4. Binder Resin: Dur-A-Flex, Inc, Poly-Crete SL resin, hardener and SL aggregate,
 - 5. Broadcast: 5310-8 Dry Silica Sand (30-60 Mesh or larger)

6. Seal: Elladur 4850 Polyaspartic Floor Coating SS 10-12 mils Owner choice color
 7. Second topcoat GP 4850 Polyaspartic Floor Coating SS 10-12 Mils
- B. Cove 6 in total high with 2 in Cant cove to featheredge
1. Primer Apply one coat of Sherwin Williams / DuraGlaze 4 Cove resin at a spread rate of 250 sqfl/gal - 6 in up the wall
 2. Binder resin: DuraGlaze 4 Cove - 2 in Cant cove blend 40-60 mesh sand
 3. Grout: Resufloor Elladur 4850 - 6 in up the wall
- C. Wall above Cove CMU block Resufloor Aqua Wall
1. Primer Blockfiller Pro Industrial Heavy Duty Block Filler for CMU Block
 2. Body Pro Industrial Waterbased Catalyzed Epoxy B73-300
 3. Resutile Aqua 4410
- D.
1. Manufacture Representative
 - a. Herb Mimler, High Performances Floors 352-304-0948 Herb.e.Mimler@sherwin.com
- E. Typical Physical Properties:
1. VOC Content of Resinous Flooring: Provide resinous flooring systems, for use inside the weatherproofing system that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
 - a. Resinous Flooring: 100 g/L.
 2. Resinous Flooring: Abrasion-, impact- and chemical-resistant, high-performance, resin-based, monolithic floor surfacing designed to produce a seamless floor.
 3. Slip Resistance: Provide slip resistant finish.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 SURFACE PREPARATION

- A. For preparation of concrete substrates follow manufacturer's "Instruction for Concrete Surface Preparation" (Form G-1). **Shot blast CSP 4**

3.3 INSTALLATION

- A. General: Apply each components of the flooring system in compliance with manufacturer's written installation instructions and strictly adhere to mixing and installation methods, recoat windows, cure times and environmental restrictions. The flooring system is to be installed directly over non-moving control joints and cracks which have been treated with EPO-FLEX epoxy, and the Flooring System shall terminate at the edge of isolation and expansion joints as designated by the Architect. Integral cove base shall be installed where specified in the drawings.
- B. Inspection: Prior to commencing Work, thoroughly examine all underlying and adjoining work, surfaces and conditions upon which Work is in any way dependent for perfect results. Report all conditions which affect Work. No "waiver of responsibility" for incomplete, inadequate or defective underlying and adjoining work, surfaces and conditions will be considered, unless notice of such unsatisfactory conditions has been filed and agreed to in writing before Work begins. Commencement

of Work constitutes acceptance of surfaces. Test and report for moisture level in substrate to verify compliance with manufacturer's requirements. Do not proceed unless acceptable test results are achieved.

- C. Cracks:
 - 1. After preparation, evaluation of quantity and severity of cracks in concrete will determine the needed repairs.
 - 2. Contract Unit Pricing:
 - a. Original bid assumes repair and treatment of ____ linear feet of cracks and control joints. Additional treatment is considered excessive and shall be bid on a per linear foot basis.
 - 3. For requirements pertaining to the treatment of cracks in concrete substrates, consult Manufacturer's publication, Concrete 102.
- D. Control Joints:
 - 1. Contract Unit Pricing:
 - a. Original bid assumes repair and treatment of ____ linear feet of cracks and control joints. Additional treatment is considered excessive and shall be bid on a per linear foot basis.
- E. Isolation/Expansion and Other Joints Subject to Movement
 - 1. All expansion joints shall be honored through the flooring system. For requirements pertaining to the above, follow manufacturer's publication, Concrete 105.

3.4 INSTALLATION

- A. Inspection: Prior to commencing Work, thoroughly examine all underlying and adjoining work, surfaces and conditions upon which Work is in any way dependent for perfect results. Report all conditions which affect Work. No "waiver of responsibility" for incomplete, inadequate or defective underlying and adjoining work, surfaces and conditions will be considered, unless notice of such unsatisfactory conditions has been filed and agreed to in writing before Work begins. Commencement of Work constitutes acceptance of surfaces. Test and report for moisture level in substrate to verify compliance with manufacturer's requirements. Do not proceed unless acceptable test results are achieved.
- B. Surface Preparation: Remove all surface contamination, loose or weakly adherent particles, laitance, grease, oil, curing compounds, paint, dust and debris by blast track method or approved mechanical means (acid etch not allowed). If surface is questionable try a test patch. Create a minimum surface profile for the system specified in accordance with the methods described in ICRI No. 03732 to achieve profile numbers as follows:
 - 1. Self-leveling mortars, to 3/16 inch: CSP-4 to CSP-6.
 - 2. Mortars and laminates, to 1/4 inch or more: CSP-5 to CSP-9.
- C. Environmental Conditions:
 - 1. All applicators and all other personnel in the area of the Flooring System installation shall take all required and necessary safety precautions. Manufacturers' installation instructions shall be followed.
 - 2. Repair damaged and deteriorated concrete according to resinous flooring manufacturer's written instructions.
 - 3. Alkalinity and Adhesion Testing: Verify that concrete substrates have pH within acceptable range. Perform tests recommended by manufacturer. Proceed with application only after substrates pass testing.
 - 4. Resinous Materials: Mix components and prepare materials according to resinous flooring

- manufacturer's written instructions.
- 5. Use patching and fill material to fill holes and depressions in substrates according to manufacturer's written instructions.
- 6. Treat control joints and other nonmoving substrate cracks to prevent cracks from reflecting through resinous flooring according to manufacturer's written instructions.

D. Applications:

- 1. Install resinous floor over properly prepared concrete surface in strict accordance with the manufacturer's directions.
 - a. Install the primer and/or base coats over thoroughly cleaned and prepared concrete.
 - b. Install topcoat over flooring after excess aggregate has been removed.
 - c. Maintain a slab temperature of 60 degree F to 80 degree F (16 degrees to 27 degrees C) for 24 hours minimum before applying floor topping.
- 2. Apply components of resinous flooring system according to manufacturer's written instructions to produce a uniform, monolithic wearing surface of thickness indicated.
 - a. Coordinate application of components to provide optimum adhesion of resinous flooring system to substrate, and optimum intercoat adhesion.
 - b. Cure resinous flooring components according to manufacturer's written instructions. Prevent contamination during application and curing processes.
 - c. At substrate expansion and isolation joints, comply with resinous flooring manufacturer's written instructions.
- 3. Sealant: Saw cut resinous floor topping at expansion joints in concrete slab. Fill saw cuts with sealant prior to final seal coat application. Follow manufacturer's written recommendations.
- 4. Primer: Apply primer over prepared substrate at manufacturer's recommended spreading rate.
- 5. Slip Resistant Finish: Provide grit for slip resistance.
- 6. Topcoats: Apply topcoats in number indicated for flooring system and at spreading rates recommended in writing by manufacturer.

3.5 CURING, CLEANING AND PROTECTION

- A. Cure the flooring system materials in compliance with manufacturer's directions, taking care to prevent contamination during stages of the installation and prior to completion of the curing process.
- B. Protect the flooring system from damage and wear during other phases of the construction operation, using temporary coverings as recommended by the manufacturer, if required. Remove temporary covering just prior to final inspection.
- C. Clean the flooring system just prior to final inspection, using materials and procedures suitable to the system manufacturer.
- D. Test each cleaner, in a small area, utilizing your cleaning technique to determine if color, gloss or texture will be affected. This precaution will demonstrate the effect of your cleaner and technique. If no deleterious effects are observed, continue with the procedure. If deleterious effects do occur, modify the cleaning material and/or procedure. For recommendations regarding types of cleaners, contact the flooring system manufacturer.

END OF SECTION

SECTION 101423 - PANEL SIGNAGE

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Panel signage.

1.2 REFERENCE STANDARDS

- A. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design; 2010.
- B. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.

1.3 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Product Data: Manufacturer's product literature for each type of panel sign, indicating styles, font, foreground and background colors, locations, and overall dimensions of each sign.
- C. Shop Drawings:
 - 1. Include dimensions, locations, elevations, materials, text and graphic layout, attachment details, and schedules.
- D. Samples: Submit two samples of each type of sign, of size similar to that required for project, indicating sign style, font, and method of attachment.
- E. Selection Samples: Where colors, materials, and finishes are not specified, submit two sets of color selection charts or chips.
- F. Verification Samples: Submit samples showing colors, materials, and finishes specified.
- G. Manufacturer's Installation Instructions: Include installation templates and attachment devices.
- H. Manufacturer's qualification statement.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Package signs as required to prevent damage before installation.
- B. Package room and door signs in sequential order of installation, labeled by floor or building.
- C. Store under cover and elevated above grade.

1.6 FIELD CONDITIONS

- A. Maintain minimum ambient temperature during and after installation.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Panel Signage:

1. IDVILLE Clear Look Wall Mount with Standoffs.

2.2 REGULATORY REQUIREMENTS

- #### A. Accessibility Requirements: Comply with ADA Standards and ICC A117.1 and applicable building codes, unless otherwise indicated; in the event of conflicting requirements, comply with the most restrictive requirements.

2.3 PANEL SIGNAGE

A. Panel Signage:

1. Application: Room and door signs.
2. Description: Flat signs with engraved panel media, tactile characters.
3. Sign Size: As indicated on drawings.
4. Total Thickness: 3/16" inch (____mm).
5. Sign Edges: Squared.
6. Letter Edges: Squared.
7. Corners: Squared.
8. Color and Font, unless otherwise indicated:
 - a. Match Owner's existing standard.
 - b. Character Color: Contrasting color.
9. Material: Laminated colored plastic engraved through face to expose core as background color. Clear plastic.
10. Material: One-piece injection molded acrylic plastic with raised letters and braille. Clear Plastic.
11. Material: Clear plastic (match existing) with standoffs.
12. Tactile Letters: Raised 1/32 inch minimum.
13. Braille: Grade II, ADA-compliant.

2.4 SIGNAGE APPLICATIONS

A. Room and Door Signs:

1. Office Doors: Identify with room names and numbers to be determined later, not those indicated on drawings; provide "window" section for replaceable occupant name.

2. Service Rooms: Identify with room names and numbers to be determined later, not those indicated on drawings.
3. Rest Rooms: Identify with pictograms, the names "MEN" and "WOMEN", room numbers to be determined later, and braille.

2.5 ACCESSORIES

- A. Standoffs: #43512MA.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that substrate surfaces are ready to receive work.
- B. Notify Architect if conditions are not suitable for installation of signs; do not proceed until conditions are satisfactory.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install with horizontal edges level.
- C. Locate panel signs and mount at heights indicated on drawings and in accordance with ADA Standards and ICC A117.1.
- D. Protect from damage until Date of Substantial Completion; repair or replace damaged items.

END OF SECTION 101423

HCSO Regional Canine Training Center
Hillsborough County Sheriff's Office
The Lunz Group

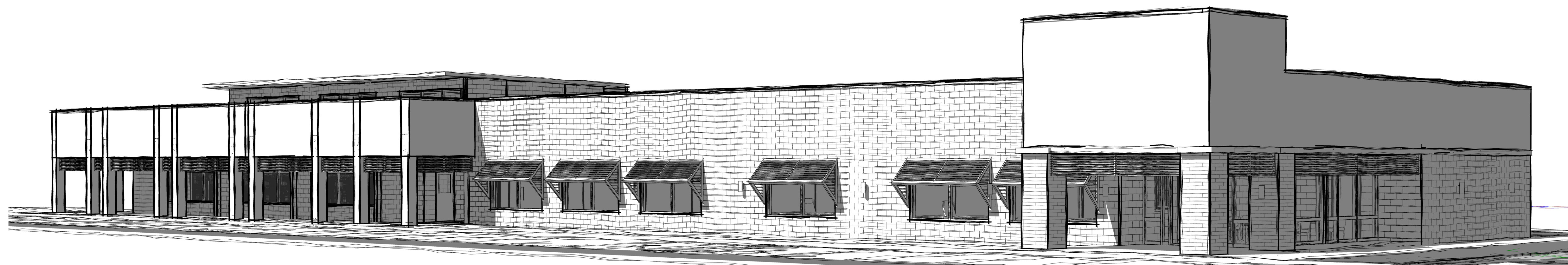
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HCSO: Regional Canine Training Center

2102 N FALKENBURG RD
TAMPA, FL 33619

23164.01

#	ISSUED FOR	DATE
1	PERMIT SET	2024-05-11
2	ADDENDUM 2	2024-06-22



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LUNZ
GROUP**

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CIVIL

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5005 W LAUREL ST, #201
TAMPA, FL 33607
(813) 644-8333

LANDSCAPE

HIGH POINT ENGINEERING
5005 W LAUREL ST, #201
TAMPA, FL 33607
(813) 644-8333

STRUCTURAL

GEORGE F YOUNG, INC
1408 N WESTSHORE BLVD, SUITE 205
TAMPA, FL 33607
(813) 223-1747

MECHANICAL

MES GROUP
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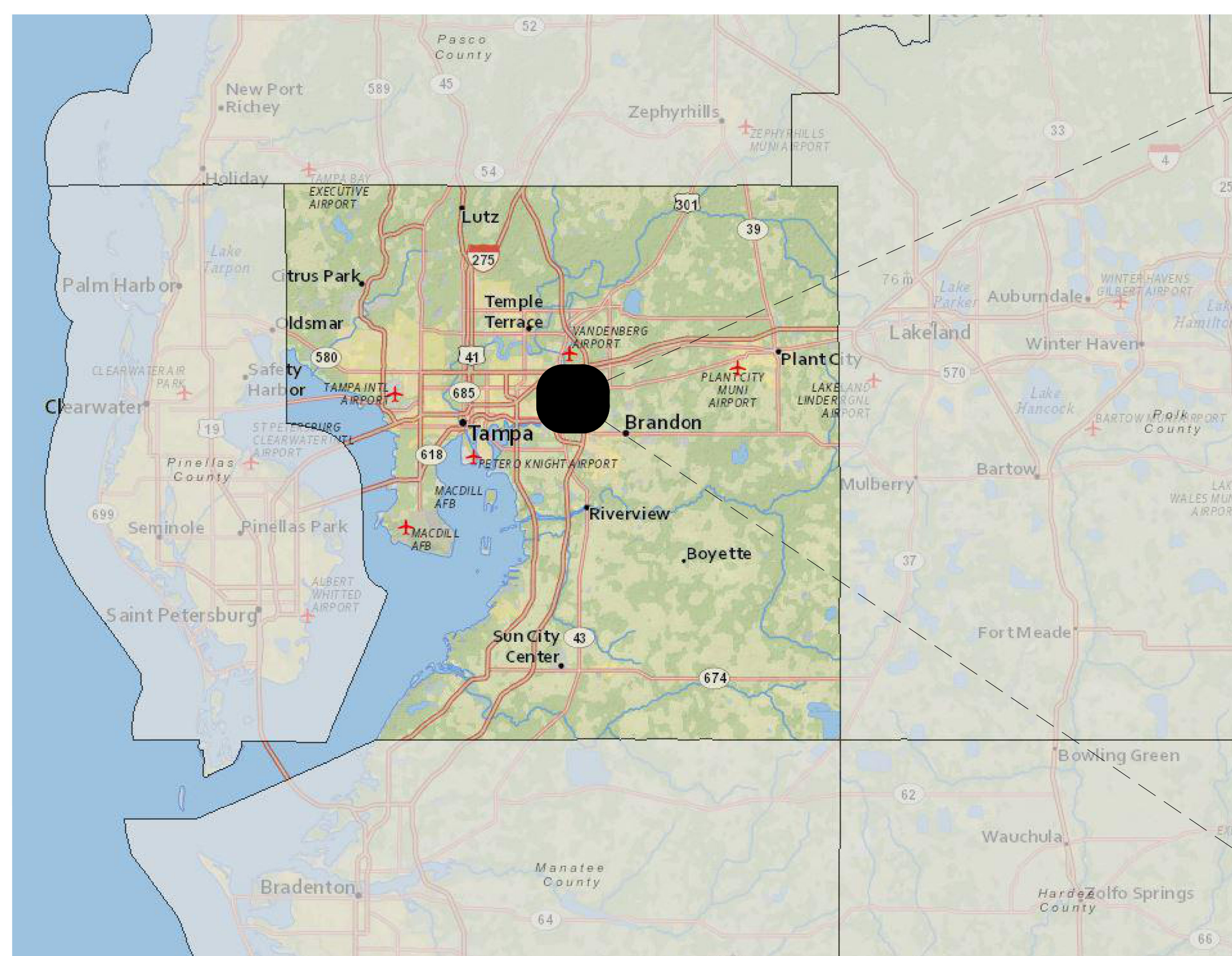
PLUMBING

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ELECTRICAL

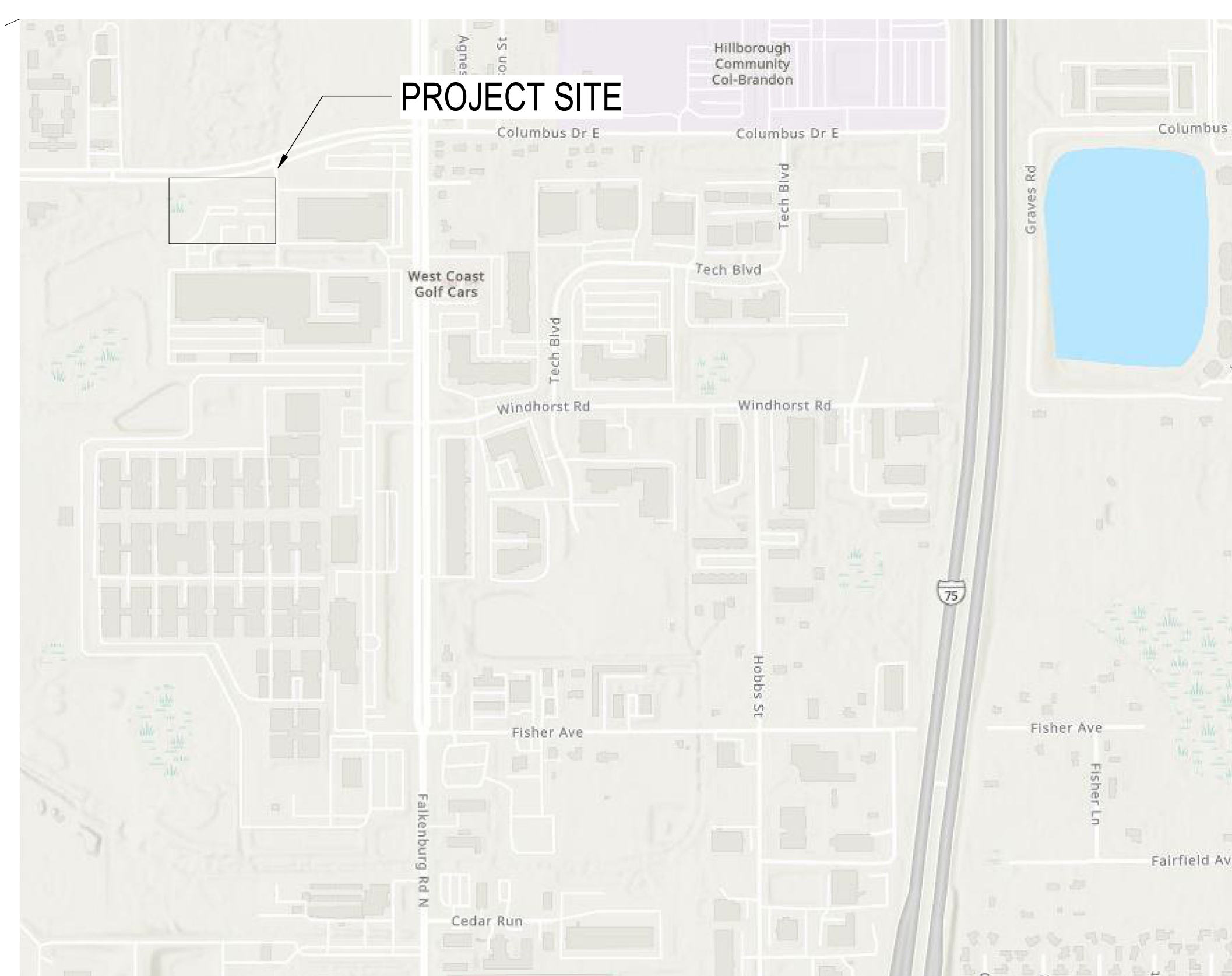
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TAMPA, FL 33609
(813) 289-4700

LOCATION MAP



HILLSBOROUGH COUNTY

VICINITY MAP



PROJECT SITE

System No. HW-D-0060

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1, 2 and 3 Hr (See Items 2 and 3)	F Ratings — 1, 2 and 3 Hr (See Items 2 and 3)
Nominal Joint Width - 1 or 2 in. (See Item 3)	FT Ratings — 1, 2 and 3 Hr (See Items 2 and 3)
Class II or III Movement Capabilities — 100% Compression or Extension or 100% Compression (See Item 3)	FH Ratings — 1, 2 and 3 Hr (See Items 2 and 3)
L Rating At Ambient — Less Than 1 CFM/ft	FTF Ratings — 1, 2 and 3 Hr (See Items 2 and 3)
L Rating At 400°F — Less Than 1 CFM/ft	Nominal Joint Width - 25 or 51 mm (See Item 3)
	Class II or III Movement Capabilities — 100% Compression or Extension or 100% Compression (See Item 3)
	L Rating At Ambient — Less Than 5.1 L/s/m ³
	L Rating At 400°F — Less Than 5.1 L/s/m ³

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System No. HW-D-0060

Firestop Configuration A

3. Joint System — Max separation between the top of the bottom flange of the deflection trak and top of gypsum board (at the time of installation of the joint system) is 1 in. (25 mm) or 2 in. (51 mm). The joint system is designed to accommodate a max 100 percent compression or extension from its installed width of 1 in. (25 mm) or 100% compression from its installed width of 2 in. (51 mm). The joint system consists of packing material (Item 3A), wall cladding (Item 3B) and a fill material (Item 3C) as follows:

A. Packing Material — Min 4 pcf (64 kg/m³) density mineral wool batt insulation cut to the shape of the fluted deck, 25 percent larger than the area of the flutes and compressed into the flutes of the steel floor units above the ceiling runner as a permanent form. In addition, when sound isolation clips (Item 2A1) are used, mineral wool batt insulation, cut to a thickness 25 percent greater than the gap, shall be compressed and installed to fill the entire space between the top of the ceiling trak and the underside of the floor or roof, between and around the isolation clips, flush with both sides of the ceiling trak.

A1. Packing Material — (Not Applicable When Sound Isolation Clips Item 2A1 are Used) — For 1 and 2 hr Assembly, F, FT, FT and FTH Ratings, as an alternate to Item A and when Item 3B1 Wall Cladding Strips is used, min 4 pcf (64 kg/m³) density mineral wool batt insulation cut to the shape of the fluted deck, 33 percent larger than the area of the flutes and compressed into the flutes of the steel floor units above the ceiling runner as a permanent form. Mineral wool to fill entire flute and extend to be flush with exposed surface of gypsum wall cladding strips (Item 3B1) at both sides of wall. In addition and as an alternate to the sealant (Item 3C) specified for items 3A1 and 3B1, pieces of packing material shall be applied to the maximum extent possible to fill any voids between top edge of gypsum wall cladding strips and steel floor units at any embossments within the steel deck.

B. Wall Cladding — Strips of the gypsum board material cut to the contour of the steel floor units and attached to the deflection trak. The number of layers, board type and thickness and fastener type shall be as specified for the gypsum board in the individual Wall and Partition Design in the UL Fire Resistance Directory. Fasteners shall be max spaced 3 in. (76 mm) OC. The top of the wall cladding shall be recessed min 1/8 in. (3.2 mm) to max 1/2 in. (13 mm) from the steel floor units and overlap the gypsum board 4 in. (102 mm).

B1. Wall Cladding Strips — (Not Applicable When Sound Isolation Clips Item 2A1 are Used) — For 1 and 2 hr Assembly, F, FT, FT and FTH Ratings, as an alternate to Item 3B and when Item 3A1 Forming Material is used, strips of the gypsum board material are cut to be flush with underside of valleys of the steel floor units and attached to the deflection trak along length of joint. The number of layers, board type and thickness and fastener type shall be specified for the gypsum board in the individual Wall and Partition Design in the UL Fire Resistance Directory. Cladding strips are to butt tightly against underside of valleys of steel floor units and are attached to the deflection trak with fasteners located in the center of the top leg and shall be max spaced 3 in. (76 mm) OC. The wall cladding strips shall overlap the gypsum board on wall (Item 2E) a min of 4 in. (102 mm). Butt joints in the wall cladding strips to be offset between layers.

C. Fill, Void or Cavity Material* — When Items 3A and 3B are used, full depth of fill material installed on each side of the wall between the top of the wall cladding and the surface of the steel floor units, flush with each surface of the cladding. When Items 3A1 and 3B1 are used, fill material shall be applied to the maximum extent possible to fill any voids between top edge of gypsum wall cladding strips and steel floor units at any embossments within the steel deck (see Item 3A1 for alternate), and for L Rating, a min 3/8 in. (9.5 mm) bead of sealant shall be applied at the interface of each valley of deck to the gypsum cladding strips and at the interface of the forming material within the flutes to the steel deck.

3M COMPANY — FB 1000NS, FB 2000, FB 2000+, FD-150+, CP 25 WB+
A/D FIRE PROTECTION SYSTEMS INC — A/D FireBarrier Seal NS
DAP PRODUCTS INC — DAP Firestop Sealant
GRABBER CONSTRUCTION PRODUCTS INC — GrabberGard EFC, GrabberGard IFC
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS611A or FS-ONE MAX Intumescent Sealant
NATIONAL GYPSUM CO — FS-90
NUCO INC — Self Seal GG-200
PASSIVE FIRE PROTECTION PARTNERS — 3600EX, 4100NS, 4800DW
RECTORSEAL — FlameSafe FS3000, Metacaulk 1200, Biostop 750, FS3001, FS3005
RECTORSEAL — Metacaulk 835+, Metacaulk 1000, Biostop 500+Caulk, Biotherm 100, FS1900, FS4000
SPECIFIED TECHNOLOGIES INC — SpecSeal ES Sealant
TREMCO INC — TREMstop Acrylic
UNITED STATES GYPSUM CO — FC, RFC

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System No. HW-D-0060

Firestop Configuration B

3. Joint System — Max separation between the top of the bottom flange of the deflection trak and top of gypsum board (at the time of installation of the joint system) is 1 in. (25 mm) or 2 in. (51 mm). The joint system is designed to accommodate a max 100 percent compression or extension from its installed width of 1 in. (25 mm) or 100% compression from its installed width of 2 in. (51 mm). The joint system consists of packing material (Item 3A), wall cladding (Item 3B) and a fill material (Item 3C) as follows:

A. Wall Cladding — Strips of the gypsum board material attached to the deflection trak. The number of layers, board type and thickness and fastener type shall be as specified for the gypsum board in the individual Wall and Partition Design in the UL Fire Resistance Directory. Fasteners shall be max spaced 3 in. (76 mm) OC. The top of the wall cladding shall be recessed min 1/8 in. (3.2 mm) to max 1/2 in. (13 mm) from the steel floor units and overlap the gypsum board 4 in. (102 mm).

B. Fill, Void or Cavity Material* — Full depth of fill material installed on each side of the wall between the top of the wall cladding and the surface of the steel floor units, flush with each surface of the cladding.

3M COMPANY — FB 1000NS, FB 2000, FB 2000+, FD-150+, CP 25 WB+
A/D FIRE PROTECTION SYSTEMS INC — A/D FireBarrier Seal NS
DAP PRODUCTS INC — DAP Firestop Sealant
GRABBER CONSTRUCTION PRODUCTS INC — GrabberGard EFC, GrabberGard IFC
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS611A, FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
NATIONAL GYPSUM CO — FS-90
NUCO INC — Self Seal GG-200
PASSIVE FIRE PROTECTION PARTNERS — 3600EX, 4100NS, 4800DW
RECTORSEAL — Metacaulk 835+, Metacaulk 1000, Biostop 500+Caulk, Biotherm 100, FS1900, FS4000
SPECIFIED TECHNOLOGIES INC — SpecSeal ES Sealant
TREMCO INC — TREMstop Acrylic
UNITED STATES GYPSUM CO — FC, RFC

Firestop Configuration C

3. Joint System — Max separation between the top of the bottom flange of the deflection trak and top of gypsum board (at the time of installation of the joint system) is 1 in. (25 mm) or 2 in. (51 mm). The joint system is designed to accommodate a max 100 percent compression or extension from its installed width of 1 in. (25 mm) or 100% compression from its installed width of 2 in. (51 mm). The joint system consists of packing material (Item 3A), wall cladding (Item 3B) and a fill material (Item 3C) as follows:

A. Wall Cladding — Strips of the gypsum board material attached to the deflection trak. The number of layers, board type and thickness and fastener type shall be as specified for the gypsum board in the individual Wall and Partition Design in the UL Fire Resistance Directory. Fasteners shall be max spaced 3 in. (76 mm) OC. The top of the wall cladding shall be recessed min 1/8 in. (3.2 mm) to max 1/2 in. (13 mm), or max 3/8 in. (9.5 mm) when Item 2A1 is used, from the bottom of the concrete floor and overlap the gypsum board 4 in. (102 mm).

A1. Packing Material — (Not Shown) — When sound isolation clips (Item 2A1) are used, min 4 pcf (64 kg/m³) density mineral wool batt insulation, cut to a thickness 25 percent greater than the gap, shall be compressed and installed to fill the entire space between the top of the ceiling trak and the underside of the floor or roof, between and around the isolation clips, flush with both sides of the ceiling trak.

B. Fill, Void or Cavity Material* — Full depth of fill material installed on each side of the wall between the top of the wall cladding and the bottom of the concrete floor, flush with each surface of the cladding.

3M COMPANY — FB 1000NS, FB 2000, FB 2000+, FD-150+, CP 25 WB+
A/D FIRE PROTECTION SYSTEMS INC — A/D FireBarrier Seal NS
DAP PRODUCTS INC — DAP Firestop Sealant
GRABBER CONSTRUCTION PRODUCTS INC — GrabberGard EFC, GrabberGard IFC
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS611A, FS-ONE or FS-ONE MAX Intumescent Sealant
NATIONAL GYPSUM CO — FS-90
NUCO INC — Self Seal GG-200
PASSIVE FIRE PROTECTION PARTNERS — 3600EX, 4100NS, 4800DW
RECTORSEAL — Metacaulk 835+, Metacaulk 1000, Biostop 500+Caulk, Biotherm 100, FS1900, FS4000
SPECIFIED TECHNOLOGIES INC — SpecSeal ES Sealant
TREMCO INC — TREMstop Acrylic
UNITED STATES GYPSUM CO — FC, RFC

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System No. HW-D-0060

Firestop Configuration D

3. Joint System — Max separation between the top of the bottom flange of the deflection trak and top of gypsum board (at the time of installation of the joint system) is 1 in. (25 mm) or 2 in. (51 mm). The joint system is designed to accommodate a max 100 percent compression or extension from its installed width of 1 in. (25 mm) or 100% compression from its installed width of 2 in. (51 mm). Item 2F must be used for this Configuration. The joint system consists of packing material (Item 3A), wall cladding (Item 3B) and a fill material (Item 3C) as follows:

A. Wall Cladding — Strips of the gypsum board material attached to the deflection trak. The number of layers, board type and thickness and fastener type shall be as specified for the gypsum board in the individual Wall and Partition Design in the UL Fire Resistance Directory. Fasteners shall be max spaced 3 in. (76 mm) OC. The top of the wall cladding shall be recessed min 1/8 in. (3.2 mm) to max 1/2 in. (13 mm), or max 3/8 in. (9.5 mm) when Item 2A1 is used, from the bottom of the concrete floor and overlap the gypsum board 4 in. (102 mm).

B. Fill, Void or Cavity Material* — Full depth of fill material installed on each side of the wall between the top of the wall cladding and the bottom of the concrete floor, flush with each surface of the cladding.

3M COMPANY — FB 1000NS, FB 2000, FB 2000+, FD-150+, CP 25 WB+
A/D FIRE PROTECTION SYSTEMS INC — A/D FireBarrier Seal NS
DAP PRODUCTS INC — DAP Firestop Sealant
GRABBER CONSTRUCTION PRODUCTS INC — GrabberGard EFC, GrabberGard IFC
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS611A, FS-ONE or FS-ONE MAX Intumescent Sealant
NATIONAL GYPSUM CO — FS-90
NUCO INC — Self Seal GG-200
PASSIVE FIRE PROTECTION PARTNERS — 3600EX, 4100NS, 4800DW
RECTORSEAL — Metacaulk 835+, Metacaulk 1000, Biostop 500+Caulk, Biotherm 100, FS1900, FS4000
SPECIFIED TECHNOLOGIES INC — SpecSeal ES Sealant
TREMCO INC — TREMstop Acrylic
UNITED STATES GYPSUM CO — FC, RFC

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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#	ISSUED FOR	DATE
Δ	ADDENDUM 2	2024-08-02

DRAWN BY: TLD/JLM
REVIEW BY: BTL

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G-003

STUD PARTITIONS

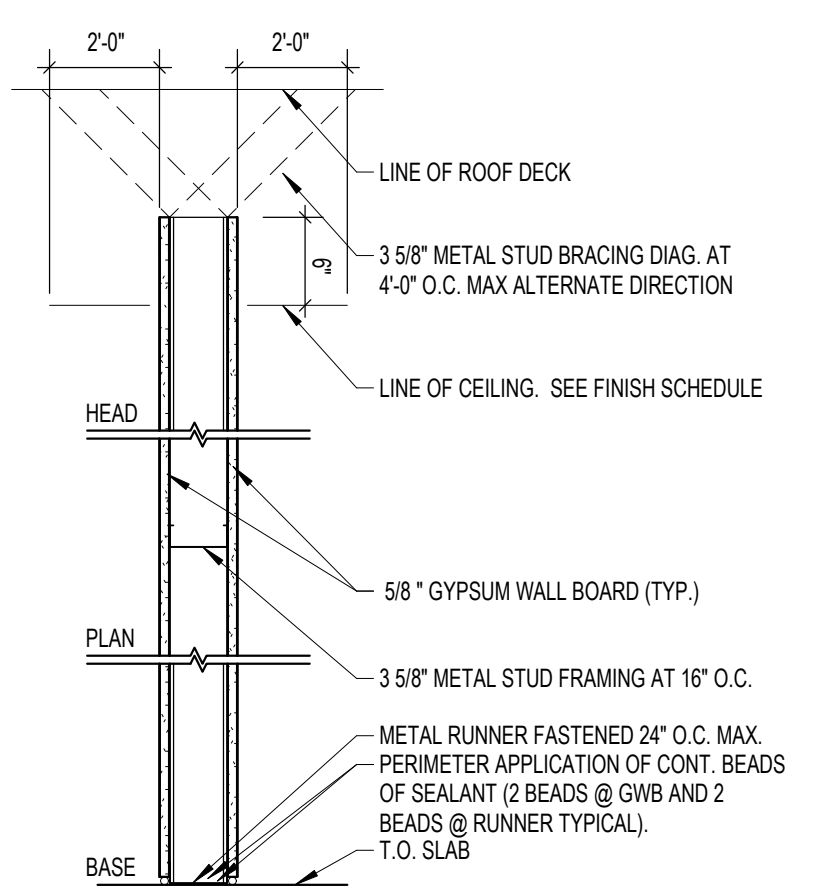
STUD PARTITIONS

STUD PARTITIONS

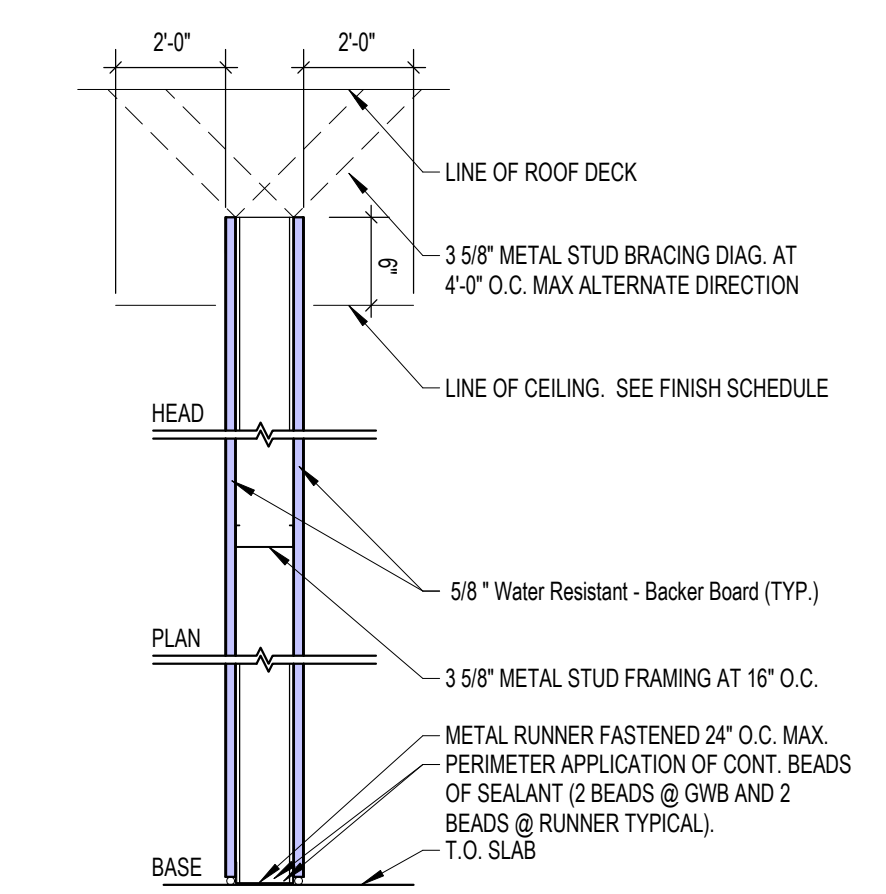
STUD PARTITIONS

GENERAL NOTES: PARTITION SCHEDULE

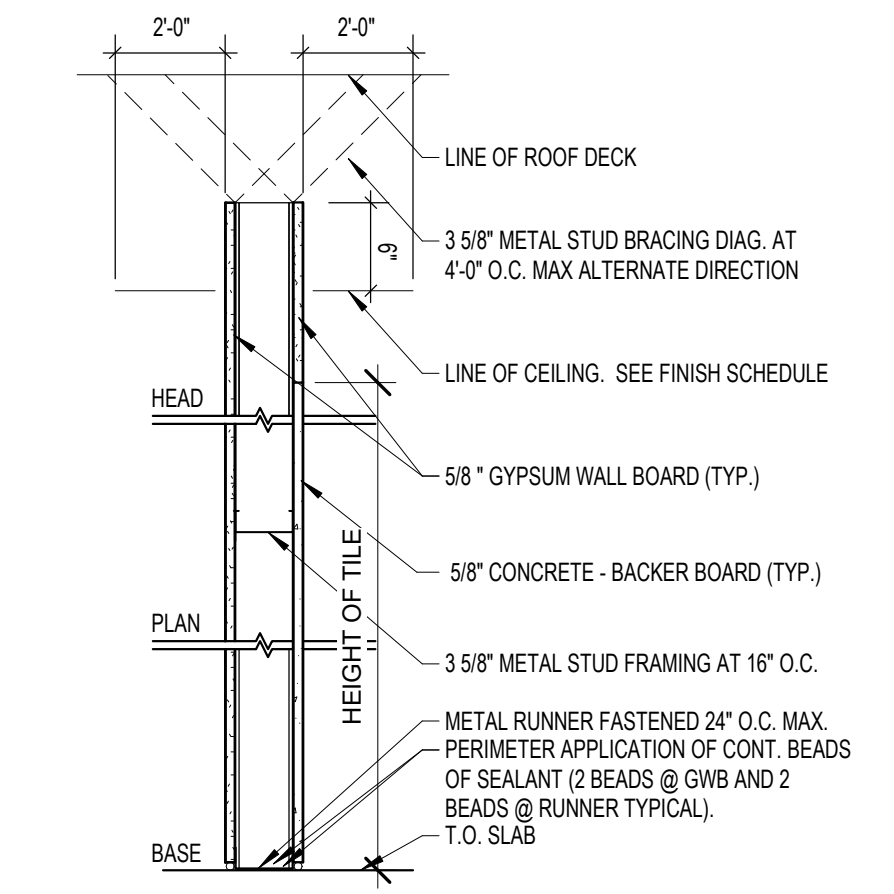
WALL TAG LEGEND



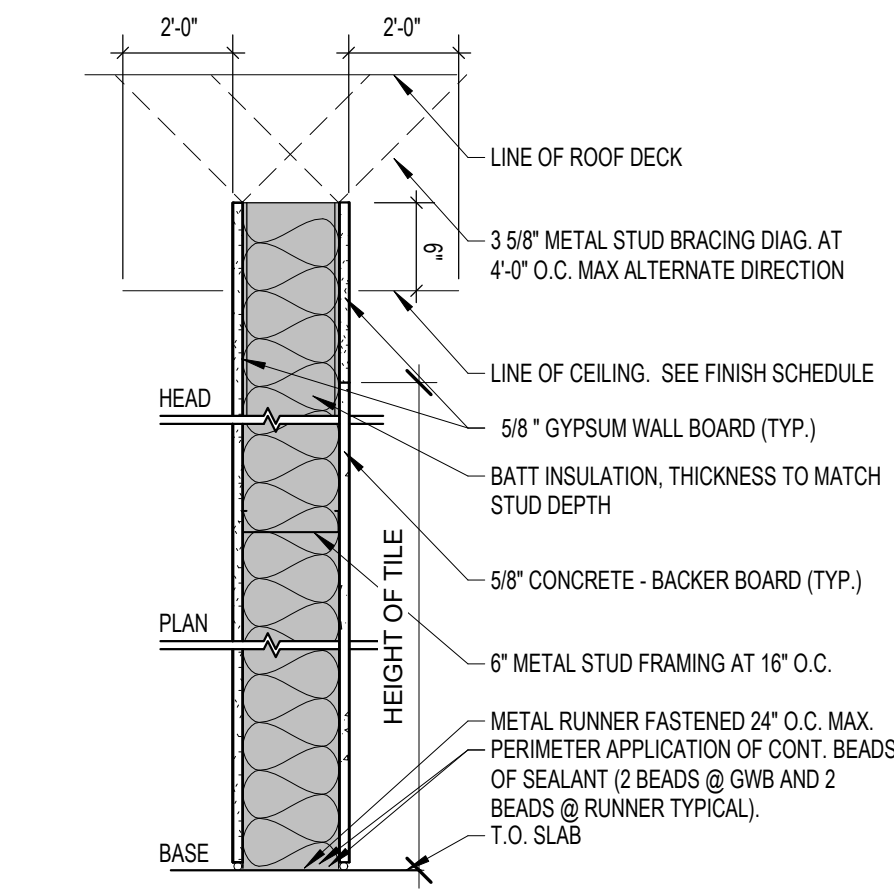
A3.AA 4 7/8" VARIES NON-LOAD BEARING



A3.EE 4 7/8" VARIES NON-LOAD BEARING

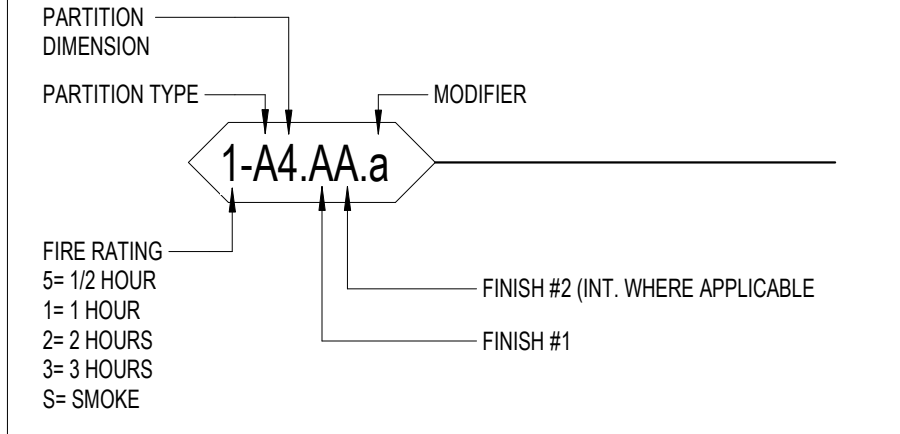


A3.AI 4 7/8" VARIES NON-LOAD BEARING



A6.AI.a 7 1/4" VARIES NON-LOAD BEARING

- THIS SHEET IS TO BE USED IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS.
- PROVIDE MOLD RESISTANT GYPSUM WALL BOARD AT ALL PARTITIONS U.O.N. ALL REFERENCES TO GYPSUM BOARD, GWB, OR GYP BOARD, ETC. ARE MEANT TO REFER TO MOLD RESISTANT GYPSUM BOARD, U.O.N.
- ALL FIRE RATED PARTITIONS SHALL HAVE FIRE RATED TYPE "X" MOLD RESISTANT GYPSUM BOARD, U.O.N.
- PROVIDE CEMENT BOARD AT TILED AREAS THAT SURROUND TUB, SHOWERS, TUB/SHOWERS
- PROVIDE WATER RESISTANT TILE BACKING BOARD AT ALL OTHER AREAS THAT RECEIVE WALL TILE
- INCREASE GAUGE THICKNESS AND/OR DECREASE STUD SPACING AND/OR CROSS BRACING AS REQUIRED TO MEET DEFLECTION CRITERIA AND WHERE LIMITING HEIGHTS ARE EXCEEDED. REFERENCE SPECIFICATION FOR DESIGN PRESSURES AND ALLOWABLE DEFLECTIONS. IN ALL CASES THE UL AND STC RATING IS TO BE MAINTAINED
- REFERENCE PLANS AND EGRESS PLANS FOR EXTENT OF FIRE RATED PARTITIONS.
- RATED PARTITIONS INCLUDING BUT NOT LIMITED TO APARTMENT DIVISION PARTITIONS ARE TO BE COMPLETED PRIOR TO NON-RATED WALLS TO ENSURE CONTINUITY OF BOTH ACOUSTICAL AND FIRE RATINGS.
- ALL CORNERS AT SHAFT WALL ENCLOSURES TO BE BUILT AT 90 DEGREE ANGLES ONLY
- ALL REQUIRED FIRE RATINGS ARE TO RUN CONTINUOUSLY AND UNINTERRUPTED BOTH HORIZONTALLY AND VERTICALLY TO UL APPROVED TERMINATION.
- ALL WOOD USED WITHIN METAL PARTITIONS SHALL BE FIRE-RETARDANT TREATED.
- ALL PARTITIONS DESIGNATED TO HAVE A FIRE RATING ARE TO STRICTLY ADHERE TO UL APPROVED ASSEMBLY REQUIREMENTS. IN THE CASE OF ANY DISCREPANCIES, NOTIFY ARCHITECT PRIOR TO CONSTRUCTION.
- SEAL ALL PENETRATIONS AT FIRE RATED ASSEMBLIES USING UL APPROVED MATERIAL OR SYSTEM.
- MAINTAIN FIRE RATING AROUND RECESSED FIXTURES.
- PARTITIONS TO RECEIVE TILE, GLASS, OR SUPPORT WALL HUNG EQUIPMENT SHALL HAVE A MAXIMUM DEFLECTION OF L/360.
- PROVIDE NECESSARY CONCEALED METAL REINFORCING FOR ALL WALL-MOUNTED ITEMS. CM TO COORDINATE ALL LOCATIONS.
- CM TO COORDINATE APPLICATION OF CONTINUOUS INSULATION, AIR BARRIER AND VAPOR BARRIER THROUGHOUT THE BUILDING PERIMETER.
- ALL WET-SPACE PIPING IS TO BE ATTACHED TO THE WET-SPACE SIDE OF THE PARTITION ONLY.
- GRAB BARS, SHOWER SEATS, AND DRESSING ROOM BENCH SEATS SHALL BE INSTALLED SO THAT THEY CAN SUPPORT A SINGLE CONCENTRATED LOAD OF 250 POUNDS.
- ALL WALL PANEL JOINTS SHALL BE STAGGERED, FROM BASE LAYER WITH FACE PANEL LAYER.
- ALL FURRING WALL PARTITIONS AND ALL CHASE WALLS TO BE VERTICALLY BRACED @ 4'-0" O.C. MIN.



PARTITION TYPE

- | | |
|-----------------|----------------|
| A. STUD (METAL) | M. CMU |
| B. BRICK | P. PLUMBING |
| C. CONCRETE | R. STUD (WOOD) |
| D. DOUBLE WALL | S. SEPERATION |
| E. EXTERIOR | X. CHASE |
| F. FURRING | Z. SHEAR |

PARTITION DIMENSION

- | | |
|----------------------------------|----------------------------------|
| 0. 7/8" FURRING CHANNEL | 6. 6" CONCRETE, MASONRY, OR STUD |
| 1. 1 1/2" OR 1 5/8" STUD | 8. 8" CONCRETE OR MASONRY |
| 2. 2 1/2" STUD | 10. 10" CONCRETE OR MASONRY |
| 3. 3 1/2" OR 3 5/8" STUD | 12. 12" CONCRETE OR MASONRY |
| 4. 4" CONCRETE, MASONRY, OR STUD | |
| 5. 5 1/2" STUD | |

APPLIED FINISH

- | | |
|---------------------------------------|---|
| A. 1 LAYER 5/8" GYP BD | G. 1 LAYER PLYWOOD (SEE PLANS FOR SIZE) |
| B. 2 LAYER 5/8" GYP BD | H. CMU SPLIT FACED BLOCK |
| C. 1 LAYER 5/8" GYP BD (TYPE X) | I. 1 LAYER 5/8" CEMENT BD BEHIND TILE, 1 LAYER 5/8" GYP BD ABOVE TILE |
| D. 2 LAYER 5/8" GYP BD (TYPE X) | |
| E. 1 LAYER 5/8" MOISTURE RESISTANT BD | |
| F. 1 LAYER 1/2" CEMENT BD | |

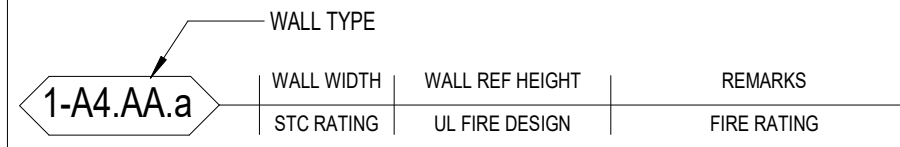
ACOUSTIC NOTES: PARTITION SCHEDULE

- INSTALL ACOUSTICALLY RATED ASSEMBLIES TO MEET OR EXCEED THE MINIMUM STC RATING NOTED ON THE DRAWINGS AND SPECIFICATIONS (STC 50 TYPICALLY). 25 GAUGE STUDS AT 24" O.C. OR 30 GAUGE EQUIVALENT STUDS ARE ACCEPTABLE AS ALTERNATE TO AS NOTED PROVIDED REQUIRED SPANS AND DEFLECTIONS ARE MET.
- DO NOT LOCATE OUTLET BOXES OPPOSITE ONE ANOTHER IN ANY PARTITION. LOCATE AT LEAST ONE STUD APART. SEAL THE OUTLET BOXES WITH PUTTY PADS AND CAULK THE PERIMETER USING ACOUSTICAL SEALANT. AT RATED PARTITIONS, LOCATE OUTLET BOXES AT LEAST 24" APART.
- PARTITIONS CONTAINING RECESSED ELEMENTS (E.G. TELEVISIONS) TO BE PROPERLY BLOCKED AND SEALED TO MAINTAIN REQUIRED STC RATING.
- WHERE GYPSUM BOARD CEILINGS MEET WALLS, HOLD THE GYPSUM BOARD CEILINGS BACK FROM THE FACE OF THE INTERSECTING WALL AND CAULK AIRTIGHT WITH A CONTINUOUS BEAD OF ACOUSTICAL SEALANT. WHERE NECESSARY, USE FOAM BACKER ROD TO PROVIDE A SURFACE AGAINST WHICH TO CAULK.
- AT CORNERS, HOLD THE LAST LAYER OF GYPSUM BOARD FROM THE FACE OF THE INTERSECTING WALL AND CAULK WITH A CONTINUOUS BEAD OF ACOUSTICAL SEALANT.
- CM TO COORDINATE INSULATION AS REQUIRED TO MEET UL ASSEMBLY REQUIREMENTS.

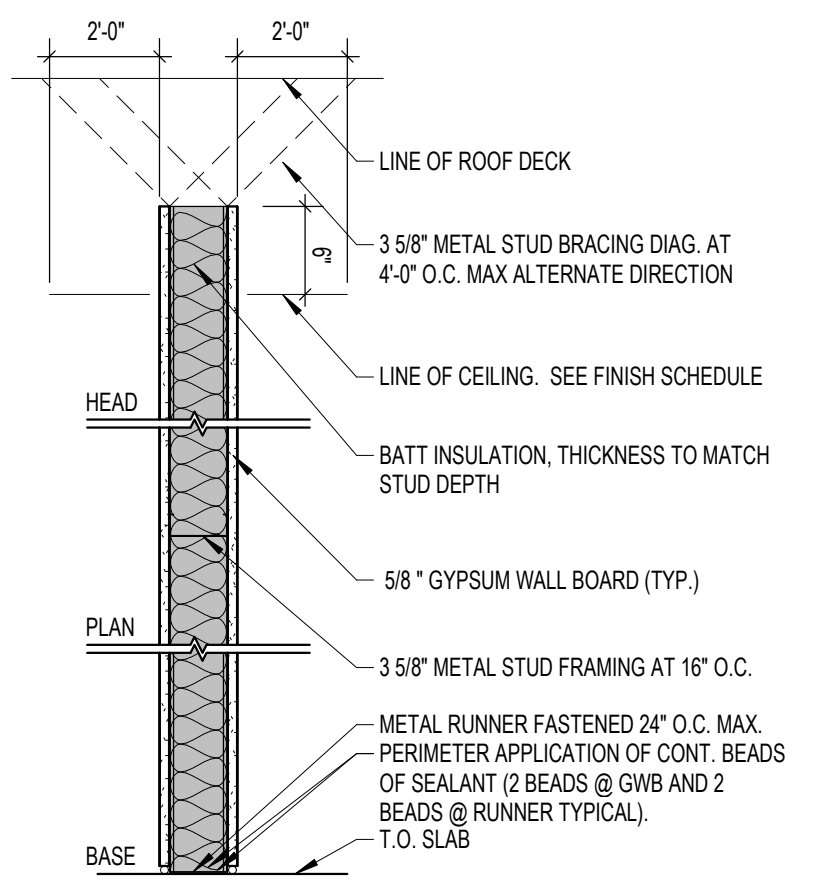
MODIFIERS

- PARTITION INCLUDE RIGID OR BATT INSULATION. MATCH THICKNESS TO STUD SIZE (1" FOR 1 1/2" STUDS, 2" FOR 2 1/2" STUDS, 3 1/2" FOR 3 5/8" STUD, 6" FOR 6" STUD.)
- PARTITION INCLUDE THERMAL BATT INSULATION. MATCH THICKNESS TO STUD SIZE (1" FOR 1 1/2" STUDS, 2" FOR 2 1/2" STUDS, 3" FOR 3 5/8" STUD, 6" FOR 6" STUD.)
- PARTITION INCLUDE SOUND ATTENUATION BATT INSULATION. MATCH THICKNESS TO STUD SIZE (1" FOR 1 1/2" STUDS, 2" FOR 2 1/2" STUDS, 3" FOR 3 5/8" STUD, 6" FOR 6" STUD.)
- PARTITION INCLUDES ONE ADDITIONAL 5/8" THICK LAYER OF TILE BACKER BOARD (BATHTUB SIDE).
- PROVIDE 25 GA STD (TO MEET ACOUSTICAL REQUIREMENTS).
- FULLY GROUDED.
- PARTIAL HEIGHT WALL - REFER TO ELEVATIONS FOR ADDITIONAL INFO.
- AIR SEAL PARTITION IN ACCORDANCE WITH SPEC SECTION 018115.
- COORDINATE WITH DETAILS.
- COORDINATE WITH EXTERIOR WALL DETAILS.
- PARTITION TO RECEIVE PLYWOOD ON THE SIDE OF TAG.
- AT FACE OF SERVICE CORRIDOR WALLS, ADD "X" ALUMINUM DIAMOND PLATE FROM FINISHED FLOOR TO 4'-0" ABOVE FLOOR. PLATE SHALL BE APPLIED WITH COUNTERSUNK SCREWS INTO STUDS.
- 1" UNBRIDGED AIRSPACE BETWEEN ELEVATOR SHEAR WALL AND STUD, WITH MIN 3" BATT INSULATION.
- INCLUDE STIFFENER CHANNELS.
- PROVIDE 16 GAUGE STUDS AT PLUMBING CHASE WALL AT WALL HUNG TOILET.
- STUD SPACING TO BE 12" O.C.
- STUD SPACING TO BE 24" O.C.
- PARTITION INCLUDES EXTERIOR INSULATION FINISH SYSTEM.
- UL RATED WALL ASSEMBLY

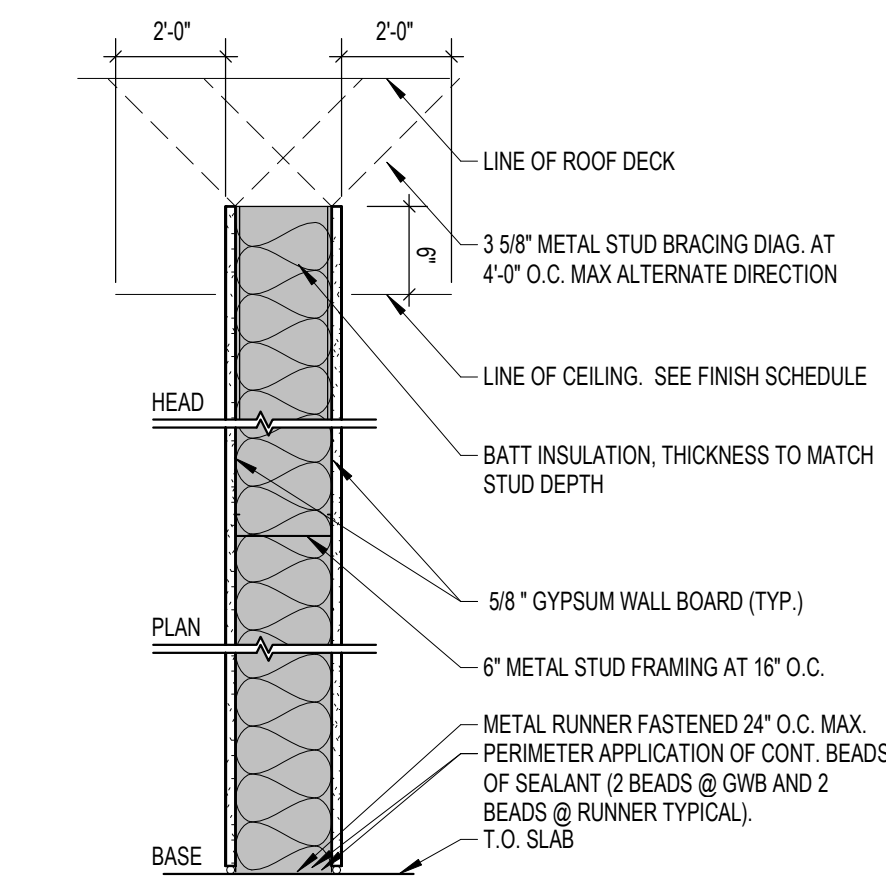
LEGEND: WALL TYPE VIEW TITLE



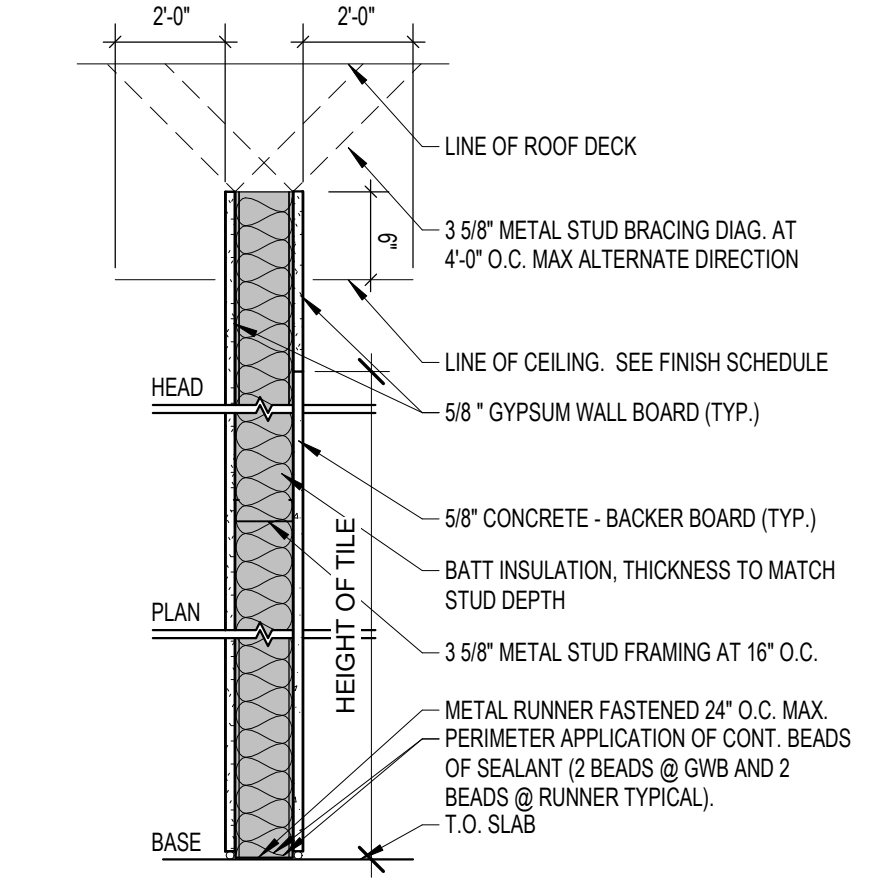
UL # WALL CONSTRUCTION COMPLIANCE



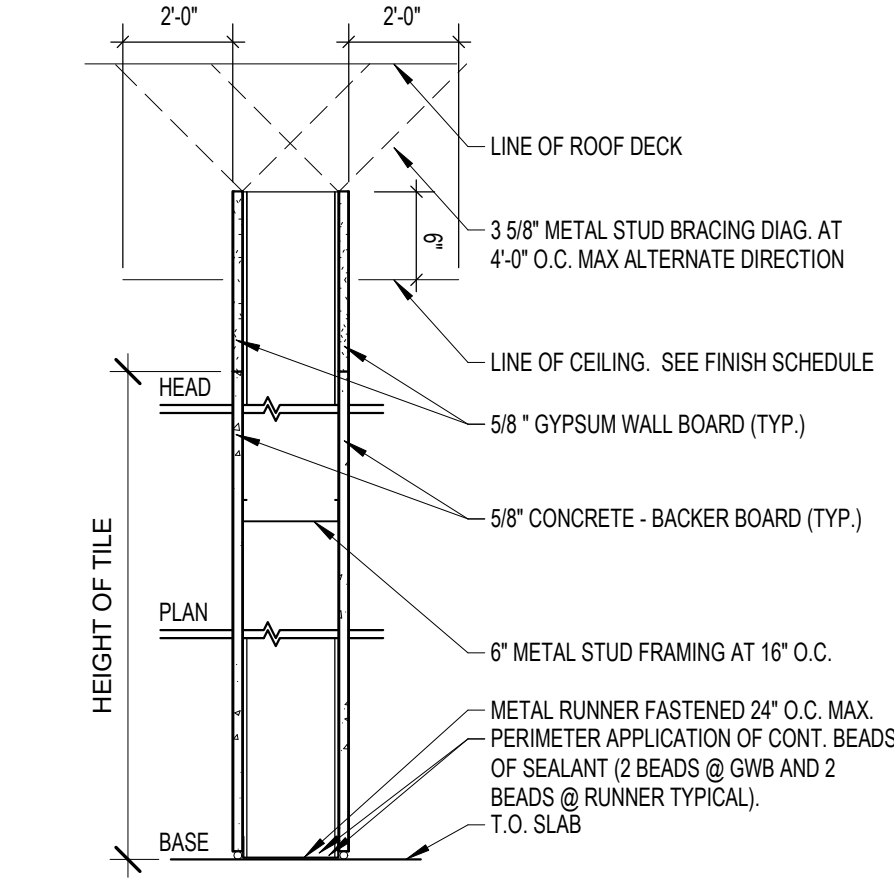
A3.AA.a 4 7/8" VARIES NON-LOAD BEARING



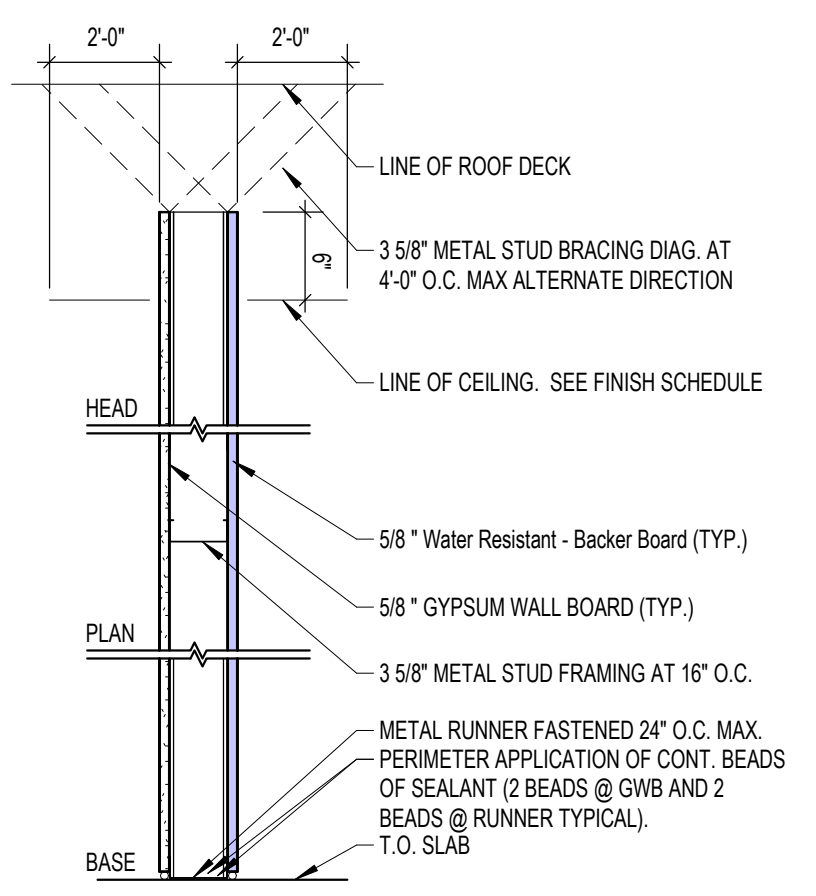
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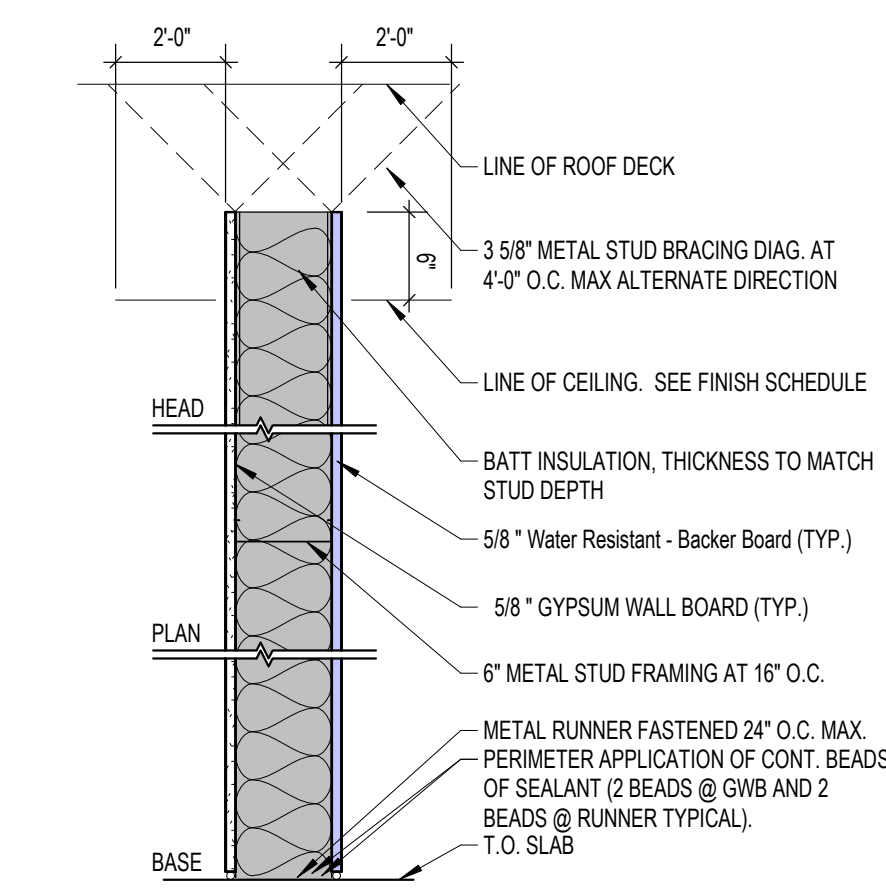
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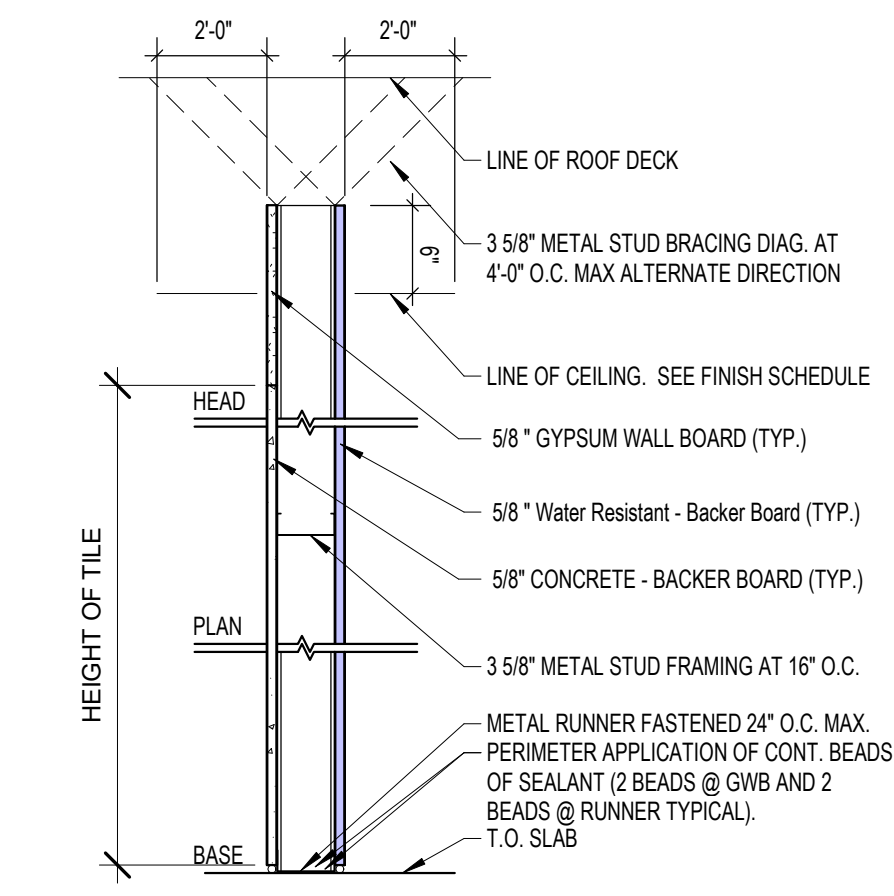
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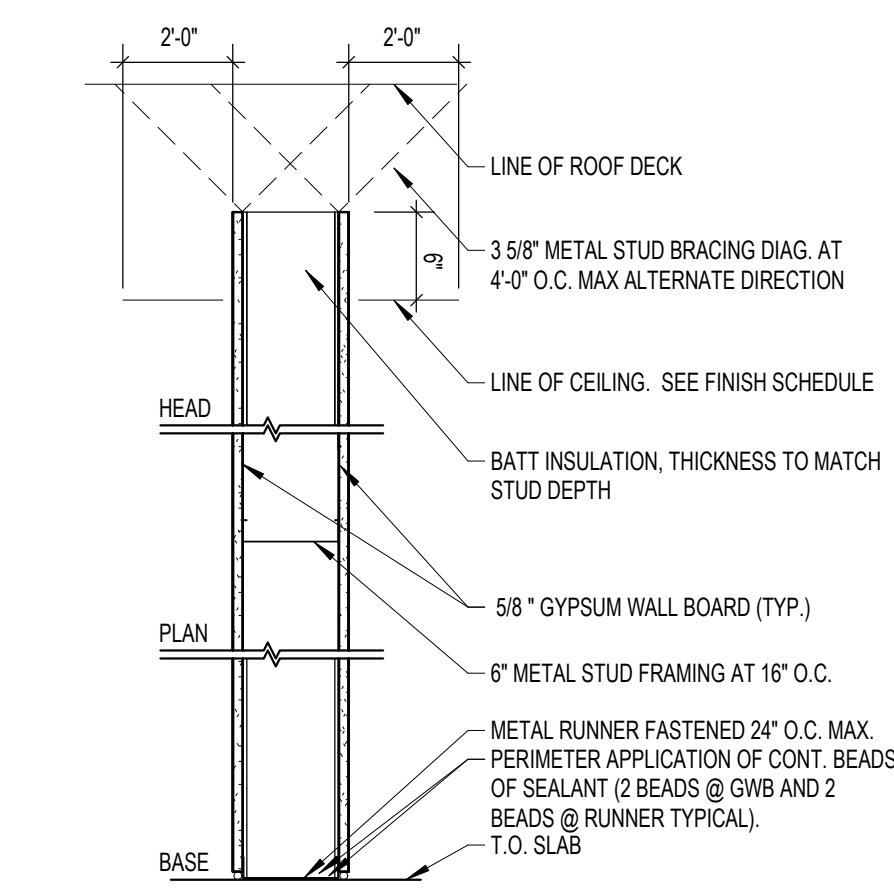
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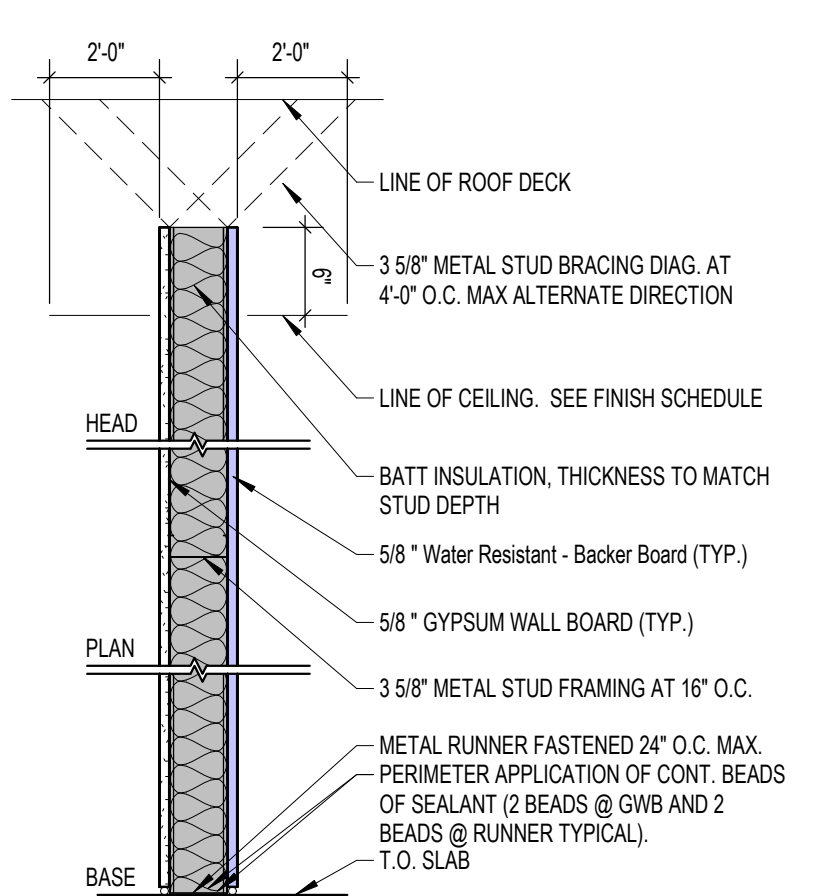
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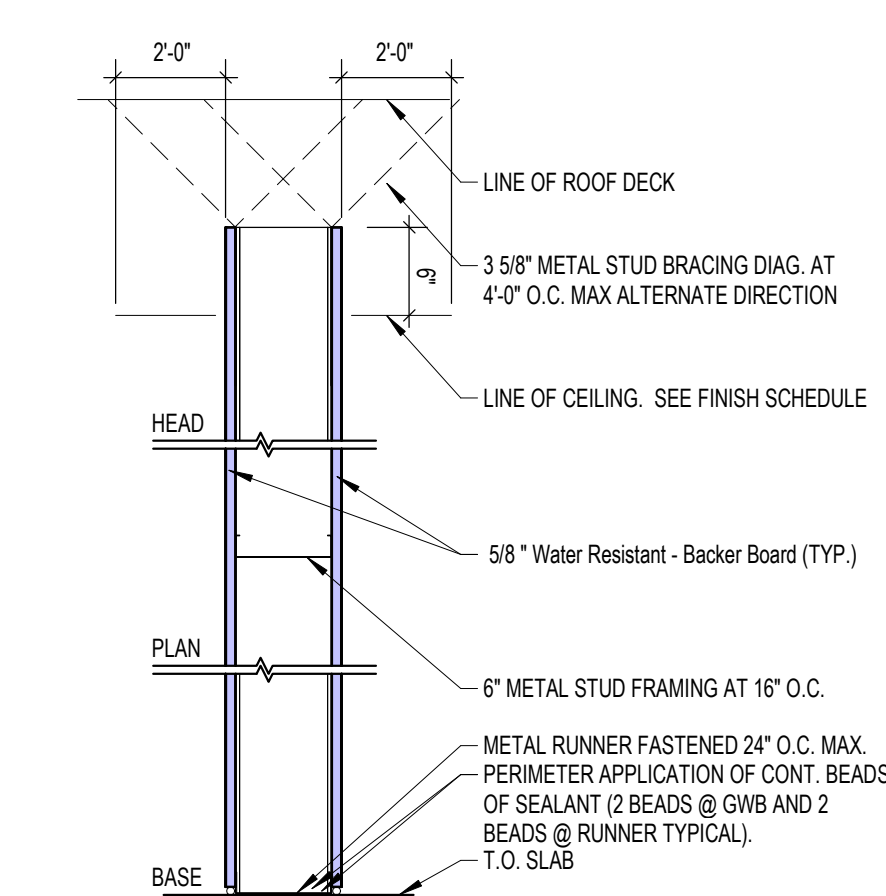
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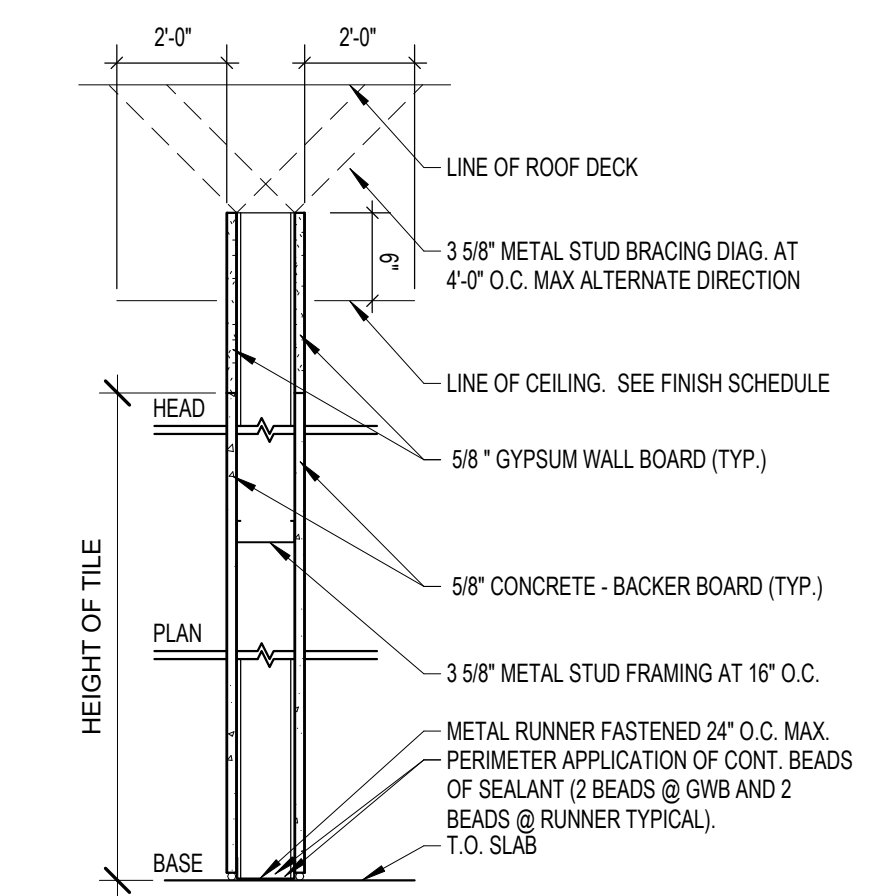
A6.AA 7 1/4" VARIES NON-LOAD BEARING



A3.AE.a 4 7/8" VARIES NON-LOAD BEARING



A6.EE 7 1/4" VARIES NON-LOAD BEARING



A3.II 4 7/8" VARIES NON-LOAD BEARING

HCSO: Regional Canine Training Center

2102 N FALKENBURG RD
TAMPA, FL 33619

BUILDING SYSTEMS & WALL TYPES

#	ISSUED FOR	DATE
1	PERMIT SET	2024-06-11
2	ADDENDUM 2	2024-08-02

DRAWN BY: TLG
REVIEW BY: BTL

THE LUNZ GROUP
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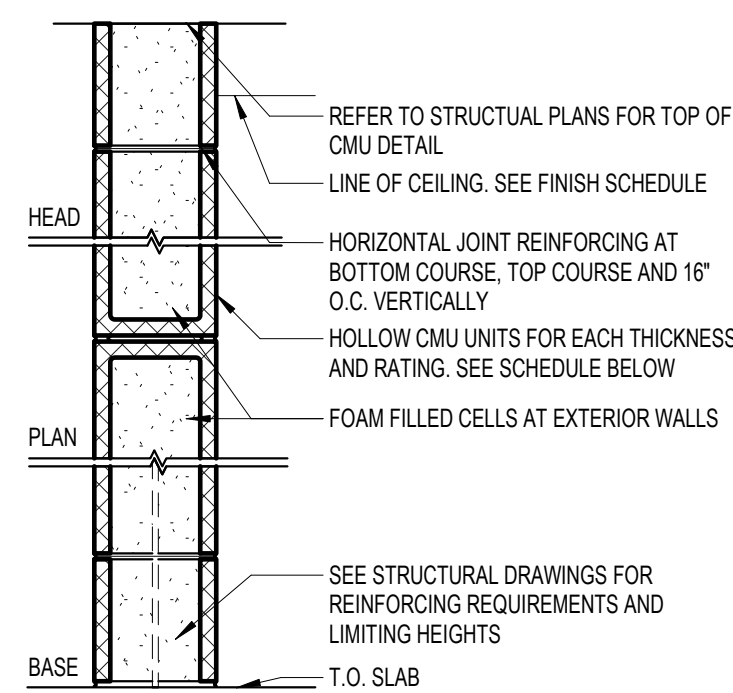
615 Celebration Ave
Celebration, FL 34747
p 883.682.1862
f 883.687.6346
w lunz.com

lunz.com

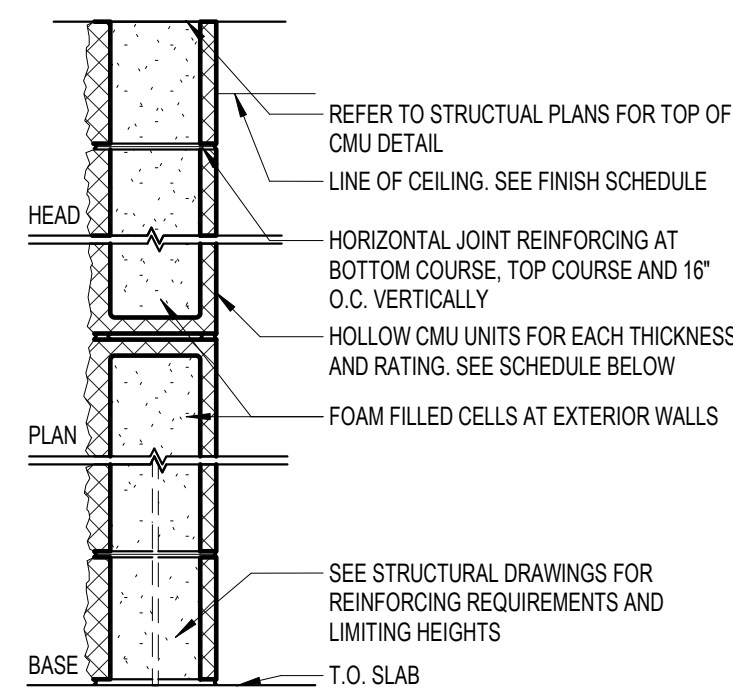
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CMU PARTITIONS

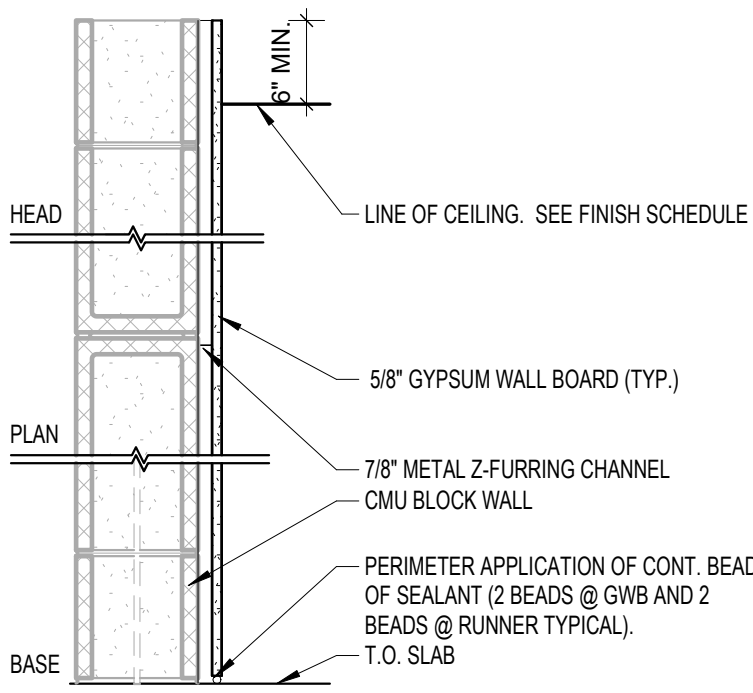


M8 7 5/8" VARIES VARIES

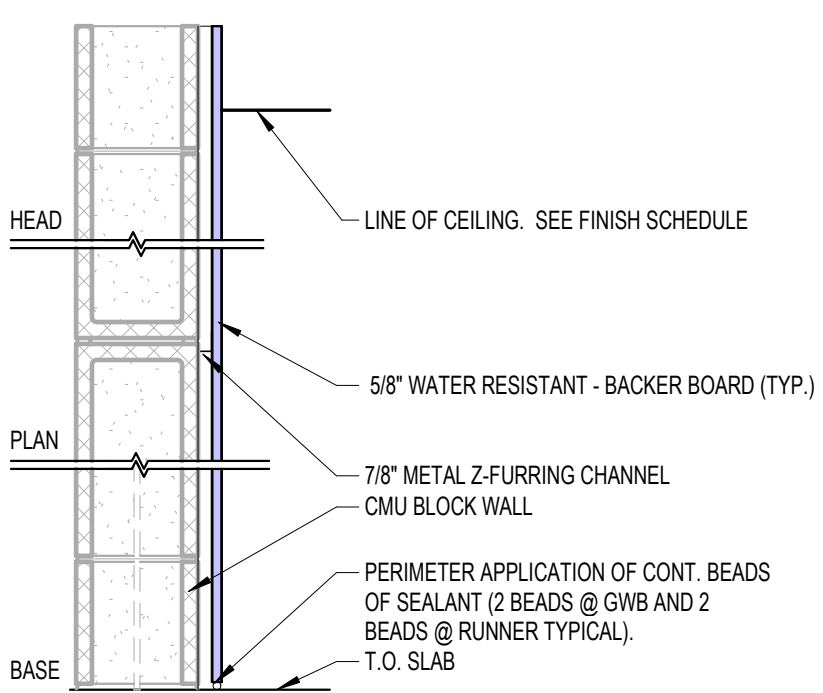


M8.H 7 5/8" VARIES NON-LOAD BEARING

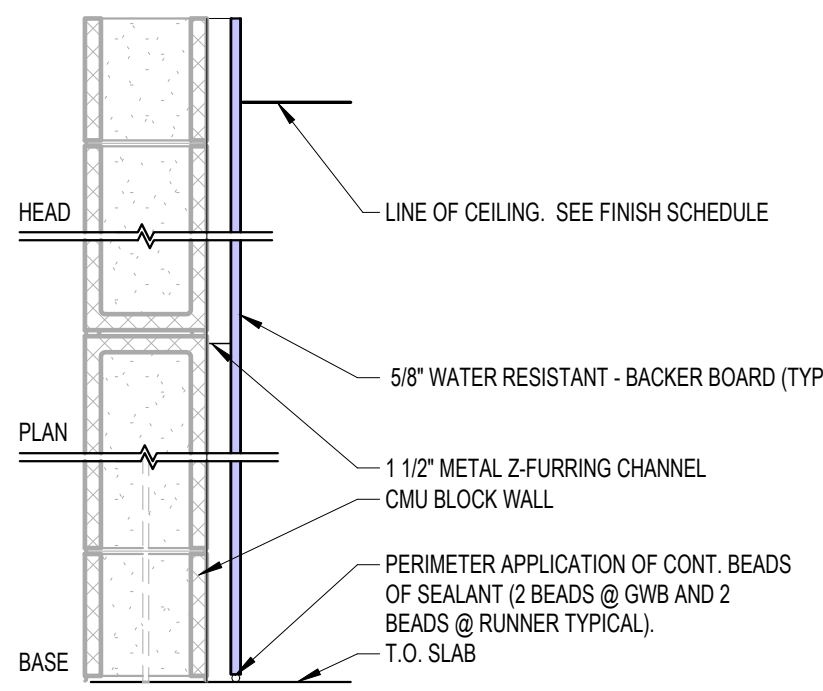
FURRING PARTITIONS



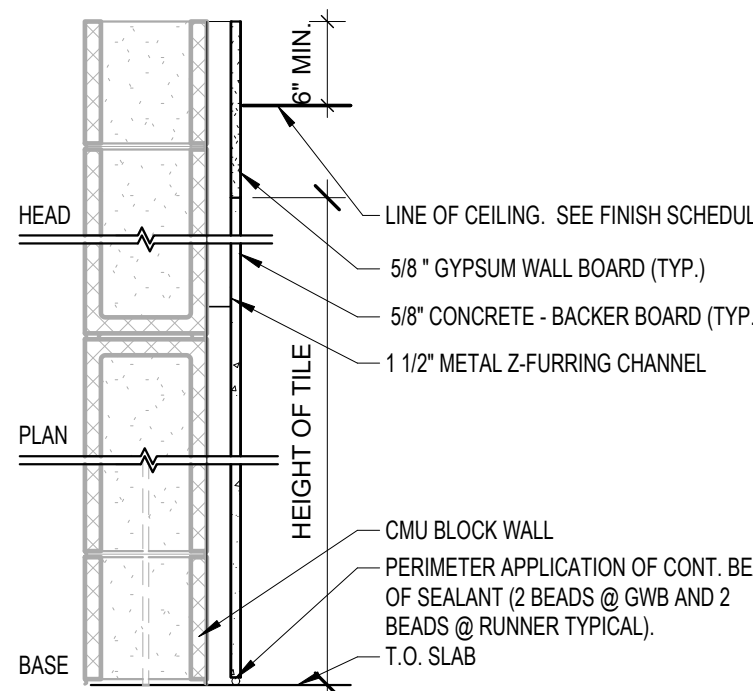
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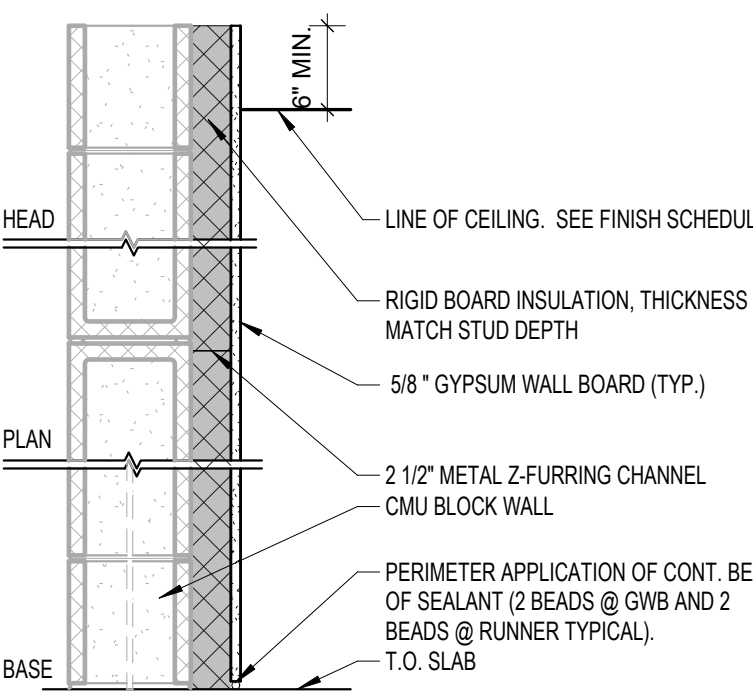
AF0.E 1 1/2" VARIES NON-LOAD BEARING



AF1.E 2 1/4" VARIES NON-LOAD BEARING

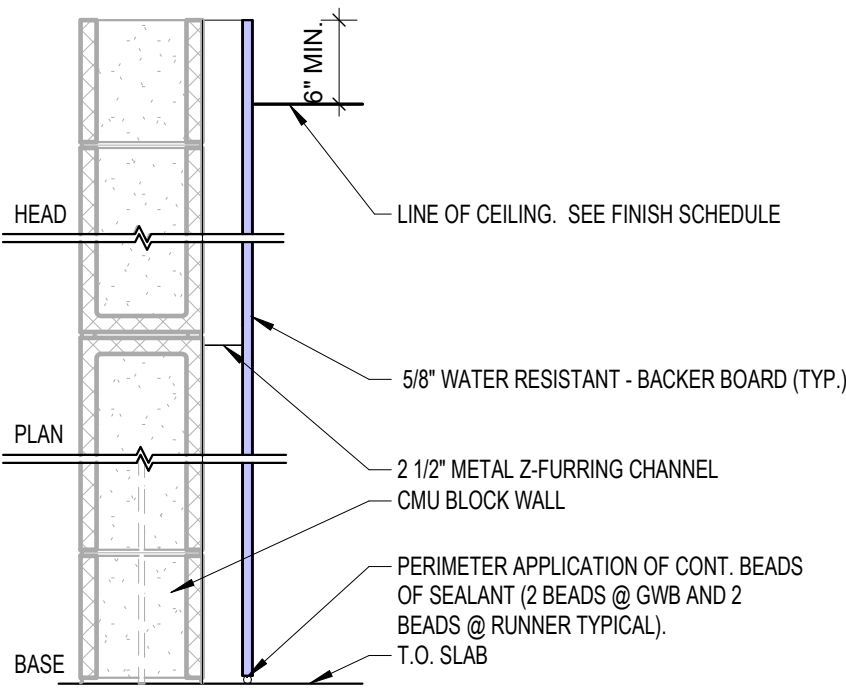


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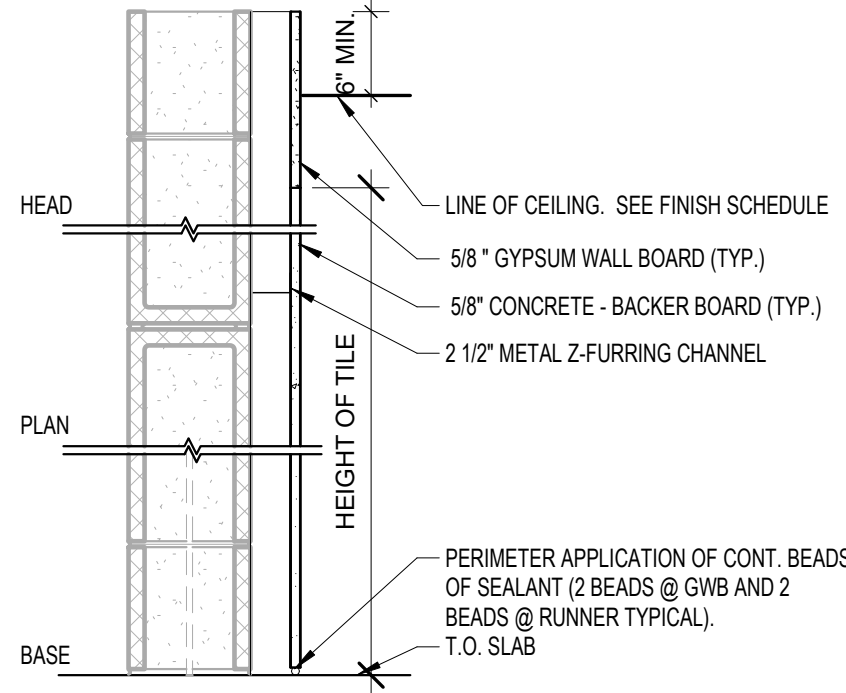


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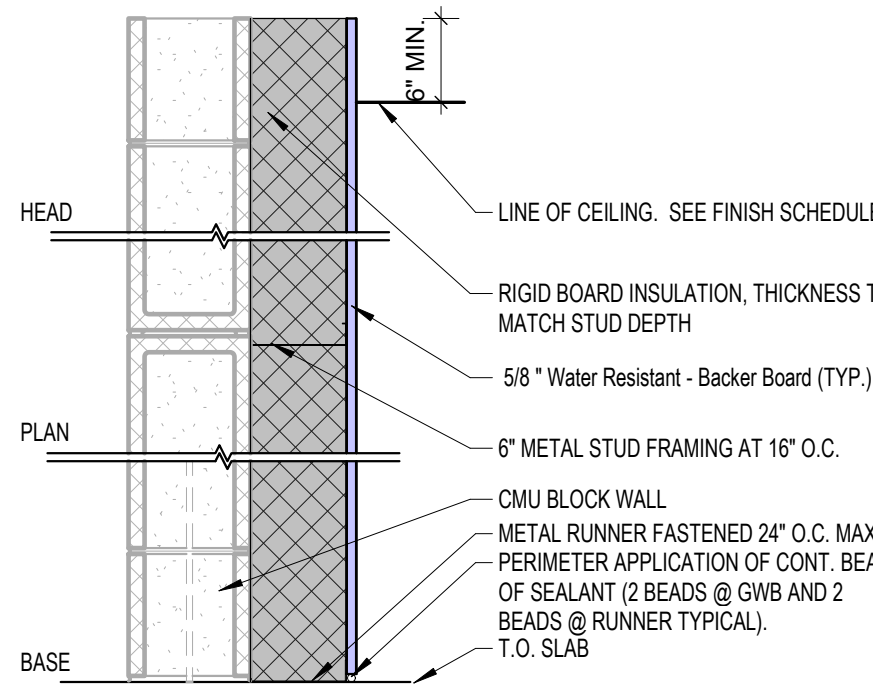
FURRING PARTITIONS



AF2.E 3 1/8" VARIES NON-LOAD BEARING

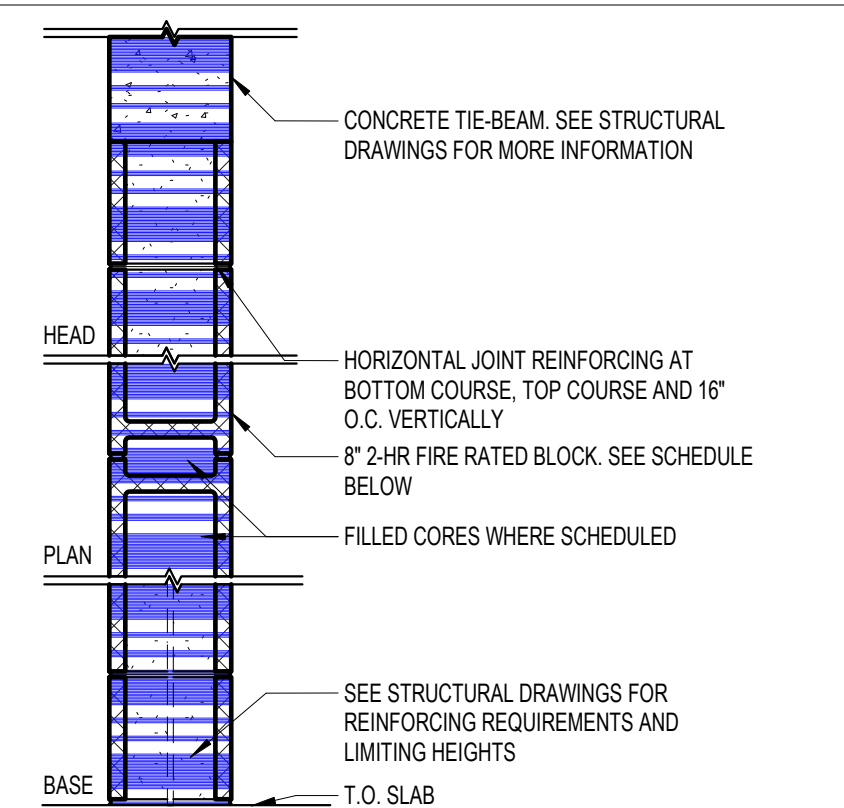


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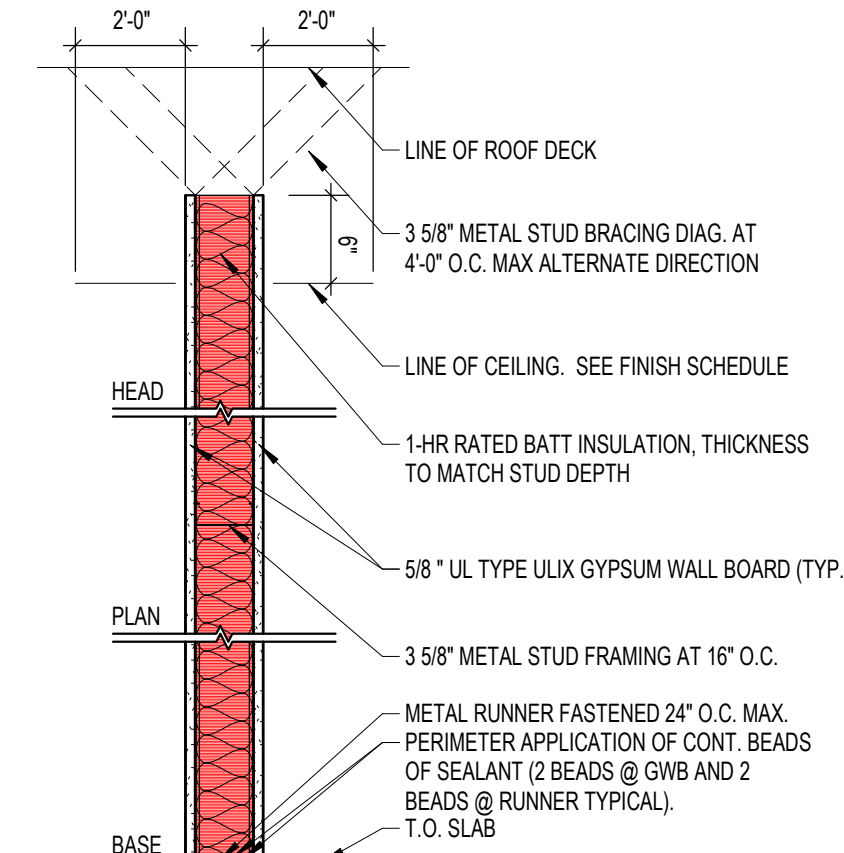


AF6.E.a 6 5/8" VARIES NON-LOAD BEARING

UL FIRE RATED PARTITIONS



2-M8 7 5/8" VARIES NON-LOAD BEARING 2 Hr



1-A3.CC.a 4 7/8" VARIES NON-LOAD BEARING UL-419 1 Hr

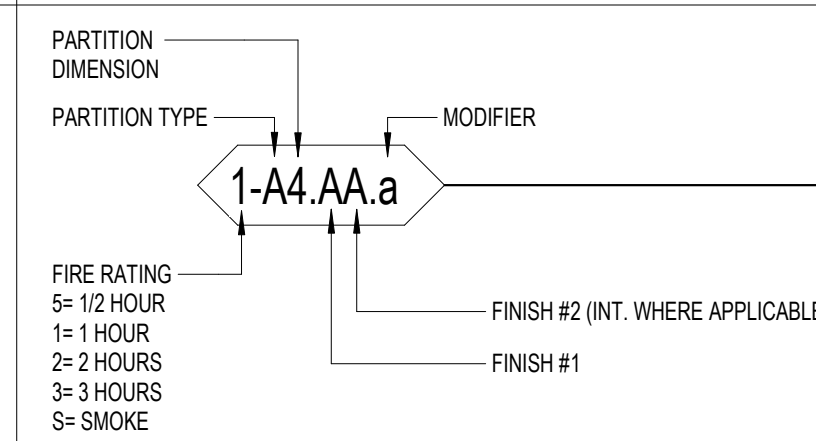
GENERAL NOTES: PARTITION SCHEDULE

- THIS SHEET IS TO BE USED IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS.
- PROVIDE MOLD RESISTANT GYPSUM WALL BOARD AT ALL PARTITIONS U.O.N. ALL REFERENCES TO GYPSUM BOARD, GWB, OR GYP BOARD, ETC. ARE MEANT TO REFER TO MOLD RESISTANT GYPSUM BOARD, U.O.N.
- ALL FIRE RATED PARTITIONS SHALL HAVE FIRE RATED TYPE "X" MOLD RESISTANT GYPSUM BOARD, U.O.N.
- PROVIDE CEMENT BOARD AT TILED AREAS THAT SURROUND TUB, SHOWERS, TUB/SHOWERS
- PROVIDE WATER RESISTANT TILE BACKING BOARD AT ALL OTHER AREAS THAT RECEIVE WALL TILE.
- INCREASE GAUGE THICKNESS AND/OR DECREASE STUD SPACING AND/OR CROSS BRACING AS REQUIRED TO MEET DEFLECTION CRITERIA AND WHERE LIMITING HEIGHTS ARE EXCEEDED. REFERENCE SPECIFICATION FOR DESIGN PRESSURES AND ALLOWABLE DEFLECTIONS. IN ALL CASES THE UL AND STC RATING IS TO BE MAINTAINED.
- REFERENCE PLANS AND EGRESS PLANS FOR EXTENT OF FIRE RATED PARTITIONS.
- RATED PARTITIONS INCLUDING BUT NOT LIMITED TO APARTMENT DEMISING PARTITIONS ARE TO BE COMPLETED PRIOR TO NON-RATED WALLS TO ENSURE CONTINUITY OF BOTH ACOUSTICAL AND FIRE RATINGS.
- ALL CORNERS AT SHAFT WALL ENCLOSURES TO BE BUILT AT 90 DEGREE ANGLES ONLY.
- ALL REQUIRED FIRE RATINGS ARE TO RUN CONTINUOUSLY AND UNINTERRUPTED BOTH HORIZONTALLY AND VERTICALLY TO UL APPROVED TERMINATION.
- ALL WOOD USED WITHIN METAL PARTITIONS SHALL BE FIRE-RETARDANT TREATED.
- ALL PARTITIONS DESIGNATED TO HAVE A FIRE RATING ARE TO STRICTLY ADHERE TO UL APPROVED ASSEMBLY REQUIREMENTS. IN THE CASE OF ANY DISCREPANCIES, NOTIFY ARCHITECT PRIOR TO CONSTRUCTION.
- SEAL ALL PENETRATIONS AT FIRE RATED ASSEMBLIES USING UL APPROVED MATERIAL OR SYSTEM.
- MAINTAIN FIRE RATING AROUND RECESSED FIXTURES.
- PARTITIONS TO RECEIVE TILE, GLASS, OR SUPPORT WALL HUNG EQUIPMENT SHALL HAVE A MAXIMUM DEFLECTION OF L/360.
- PROVIDE NECESSARY CONCEALED METAL REINFORCING FOR ALL WALL-MOUNTED ITEMS. CM TO COORDINATE ALL LOCATIONS.
- CM TO COORDINATE APPLICATION OF CONTINUOUS INSULATION, AIR BARRIER AND VAPOR BARRIER THROUGHOUT THE BUILDING PERIMETER.
- ALL WET-SPACE PIPING IS TO BE ATTACHED TO THE WET-SPACE SIDE OF THE PARTITION ONLY.
- GRAB BARS, SHOWER SEATS, AND DRESSING ROOM BENCH SEATS SHALL BE INSTALLED SO THAT THEY CAN SUPPORT A SINGLE CONCENTRATED LOAD OF 250 POUNDS.
- ALL WALL PANEL JOINTS SHALL BE STAGGERED, FROM BASE LAYER WITH FACE PANEL LAYER.
- ALL FURRING WALL PARTITIONS AND ALL CHASE WALLS TO BE VERTICALLY BRACED @ 4'-0" O.C. MIN.

ACOUSTIC NOTES: PARTITION SCHEDULE

- INSTALL ACOUSTICALLY RATED ASSEMBLIES TO MEET OR EXCEED THE MINIMUM STC RATING NOTED ON THE DRAWINGS AND SPECIFICATIONS (STC 50 TYPICALLY). 25 GAUGE STUDS AT 24" O.C. OR 20 GAUGE EQUIVALENT STUDS ARE ACCEPTABLE AS ALTERNATE TO AS NOTED PROVIDED REQUIRED SPANS AND DEFLECTIONS ARE MET.
- DO NOT LOCATE OUTLET BOXES OPPOSITE ONE ANOTHER IN ANY PARTITION. LOCATE AT LEAST ONE STUD APART. SEAL THE OUTLET BOXES WITH PUTTY PADS AND CAULK THE PERIMETER USING ACOUSTICAL SEALANT. AT RATED PARTITIONS, LOCATE OUTLET BOXES AT LEAST 24" APART.
- PARTITIONS CONTAINING RECESSED ELEMENTS (E.G. TELEVISIONS) TO BE PROPERLY BLOCKED AND SEALED TO MAINTAIN REQUIRED STC RATING.
- WHERE GYPSUM BOARD CEILINGS MEET WALLS, HOLD THE GYPSUM BOARD CEILINGS BACK FROM THE FACE OF THE INTERSECTING WALL AND CAULK AIRTIGHT WITH A CONTINUOUS BEAD OF ACOUSTICAL SEALANT. WHERE NECESSARY, USE FOAM BACKER ROD TO PROVIDE A SURFACE AGAINST WHICH TO CAULK.
- AT CORNERS, HOLD THE LAST LAYER OF GYPSUM BOARD FROM THE FACE OF THE INTERSECTING WALL AND CAULK WITH A CONTINUOUS BEAD OF ACOUSTICAL SEALANT.
- CM TO COORDINATE INSULATION AS REQUIRED TO MEET UL ASSEMBLY REQUIREMENTS.

WALL TAG LEGEND



PARTITION TYPE

A. STUD (METAL)	M. CMU
B. BRICK	P. PLUMBING
C. CONCRETE	R. STUD (WOOD)
D. DOUBLE WALL	S. SEPARATION
E. EXTERIOR	X. CHASE
F. FURRING	Z. SHEAR

PARTITION DIMENSION

0. 7/8" FURRING CHANNEL	6. 6" CONCRETE, MASONRY, OR STUD
1. 1 1/2" OR 1 5/8" STUD	8. 8" CONCRETE OR MASONRY
2. 2 1/2" STUD	10. 10" CONCRETE OR MASONRY
3. 3 1/2" OR 3 5/8" STUD	12. 12" CONCRETE OR MASONRY
4. 4" CONCRETE, MASONRY, OR STUD	
5. 5 1/2" STUD	

APPLIED FINISH

A. 1 LAYER 5/8" GYP BD	G. 1 LAYER PLYWOOD (SEE PLANS FOR SIZE)
B. 2 LAYER 5/8" GYP BD	H. CMU SPLIT FACED BLOCK
C. 1 LAYER 5/8" GYP BD (TYPE X)	
D. 2 LAYER 5/8" GYP BD (TYPE X)	
E. 1 LAYER 5/8" MOISTURE RESISTANT BD	
F. 1 LAYER 1/2" CEMENT BD	

MODIFIERS

- a. PARTITION INCLUDE RIGID OR BATT INSULATION. MATCH THICKNESS TO STUD SIZE (1" FOR 1 1/2" STUDS, 2" FOR 2 1/2" STUDS, 3" FOR 3 5/8" STUD, 6" FOR 6" STUD).
- b. PARTITION INCLUDE THERMAL BATT INSULATION. MATCH THICKNESS TO STUD SIZE (1" FOR 1 1/2" STUDS, 2" FOR 2 1/2" STUDS, 3" FOR 3 5/8" STUD, 6" FOR 6" STUD).
- c. PARTITION INCLUDE SOUND ATTENUATION BATT INSULATION. MATCH THICKNESS TO STUD SIZE (1" FOR 1 1/2" STUDS, 2" FOR 2 1/2" STUDS, 3" FOR 3 5/8" STUD, 6" FOR 6" STUD).
- d. PARTITION INCLUDES ONE ADDITIONAL 5/8" THICK LAYER OF TILE BACKER BOARD (BATHTUB SIDE).
- e. PROVIDE 25 GA STUD [TO MEET ACOUSTICAL REQUIREMENTS].
- f. FULLY GROUTED.
- g. PARTIAL HEIGHT WALL - REFER TO ELEVATIONS FOR ADDITIONAL INFO.
- h. AIR SEAL PARTITION IN ACCORDANCE WITH SPEC SECTION 018115.
- i. COORDINATE WITH ... DETAILS.
- j. COORDINATE WITH EXTERIOR WALL DETAILS.
- k. PARTITION TO RECEIVE PLYWOOD ON THE SIDE OF TAG.
- l. AT FACE OF SERVICE CORRIDOR WALLS, ADD X" ALUMINUM DIAMOND PLATE FROM FINISHED FLOOR TO 4'-0" ABOVE FLOOR. PLATE SHALL BE APPLIED WITH COUNTERSUNK SCREWS INTO STUDS.
- m. 1" UNBRIDGED AIRSPACE BETWEEN ELEVATOR SHEAR WALL AND STUD, WITH MIN 3" BATT INSULATION.
- n. INCLUDE STIFFENER CHANNELS.
- o. PROVIDE 16 GAUGE STUDS AT PLUMBING CHASE WALL AT WALL HUNG TIEOUT.
- p. STUD SPACING TO BE 12" O.C.
- q. STUD SPACING TO BE 24" O.C.
- r. PARTITION INCLUDES EXTERIOR INSULATION FINISH SYSTEM.
- s. PARTITION INCLUDES EXTERIOR INSULATION FINISH SYSTEM.
- t. UL RATED WALL ASSEMBLY.

LEGEND: WALL TYPE VIEW TITLE

WALL TYPE	WALL WIDTH	WALL REF HEIGHT	REMARKS
1-A4.AA.a	STC RATING	UL FIRE DESIGN	UL MODEL #

UL # WALL CONSTRUCTION COMPLIANCE



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BUILDING SYSTEMS & WALL TYPES CONT.

#	ISSUED FOR	DATE
Δ	PERMIT SET	2024-06-11
	ADDENDUM 2	2024-08-02

DRAWN BY: TLG
REVIEW BY: BTL

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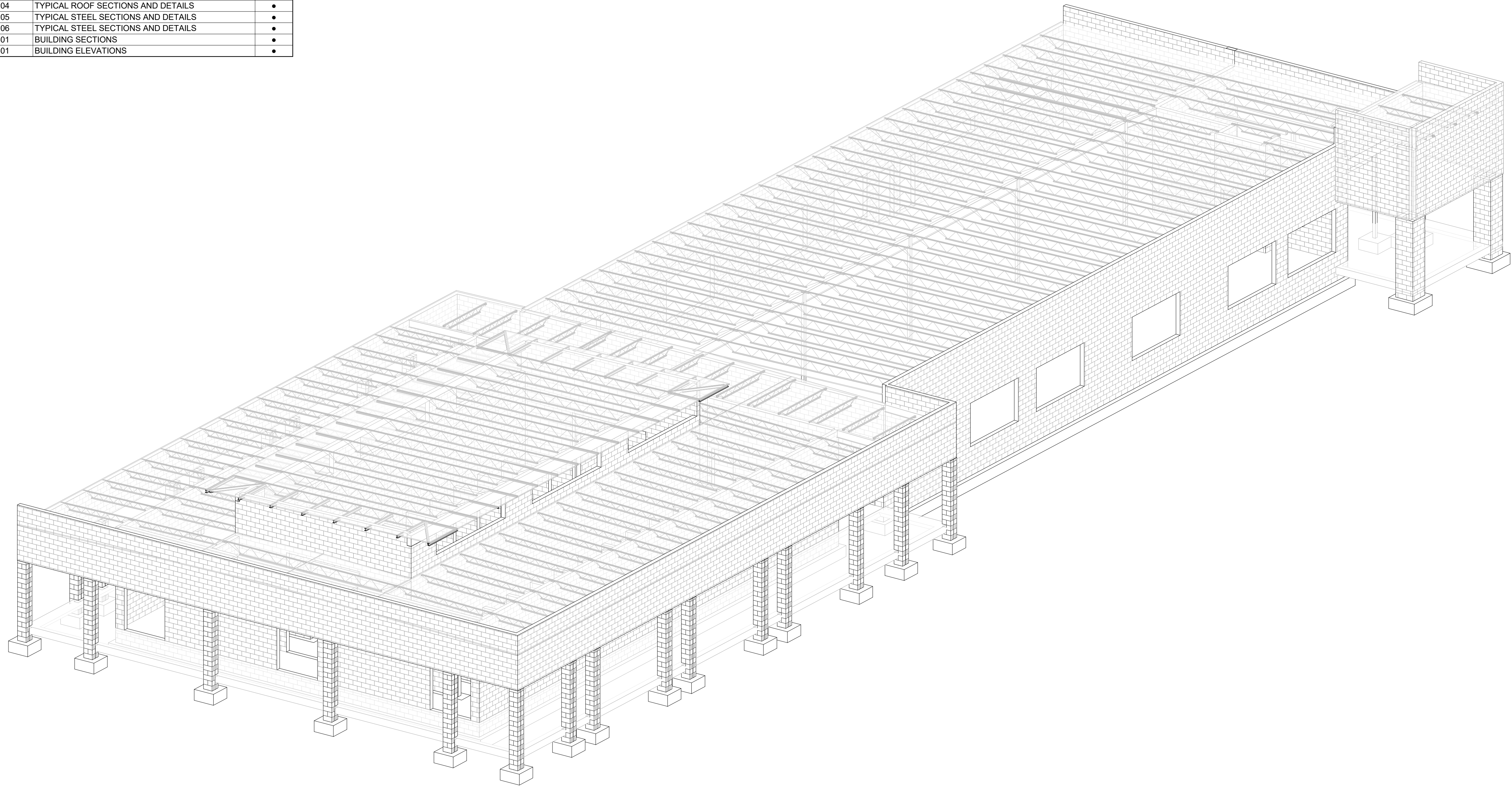
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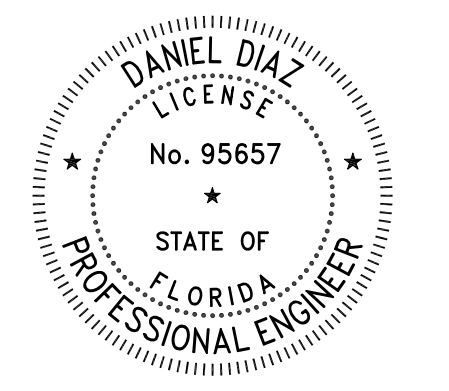


STRUCTURAL DRAWING LIST		
SHEET NO.	SHEET NAME	ADDENDUM #2 - 08.05.2024
S-000	COVER SHEET	•
S-001	GENERAL NOTES	•
S-002	GENERAL NOTES AND ABBREVIATIONS	•
S-003	WIND LOADING	•
S-101	FOUNDATION PLAN	•
S-102	ROOF FRAMING PLAN	•
S-103	HIGHER ROOF FRAMING PLAN	•
S-201	TYPICAL FOUNDATION SECTIONS AND DETAILS	•
S-202	TYPICAL MASONRY DETAILS AND SECTIONS	•
S-203	TYPICAL ROOF SECTIONS AND DETAILS	•
S-204	TYPICAL ROOF SECTIONS AND DETAILS	•
S-205	TYPICAL STEEL SECTIONS AND DETAILS	•
S-206	TYPICAL STEEL SECTIONS AND DETAILS	•
S-301	BUILDING SECTIONS	•
S-401	BUILDING ELEVATIONS	•



1 Cover Sheet View
N.T.S.

ISOMETRIC IS GRAPHICAL REPRESENTATION AND SHALL NOT BE USED FOR CONSTRUCTION PURPOSES.



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COVER SHEET

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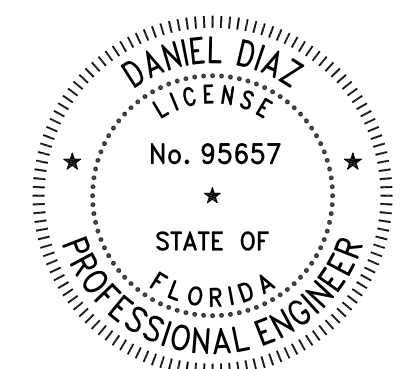
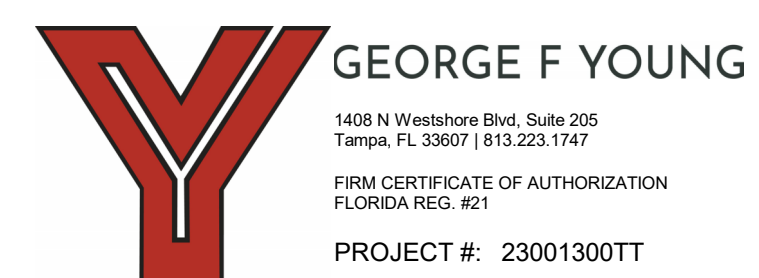
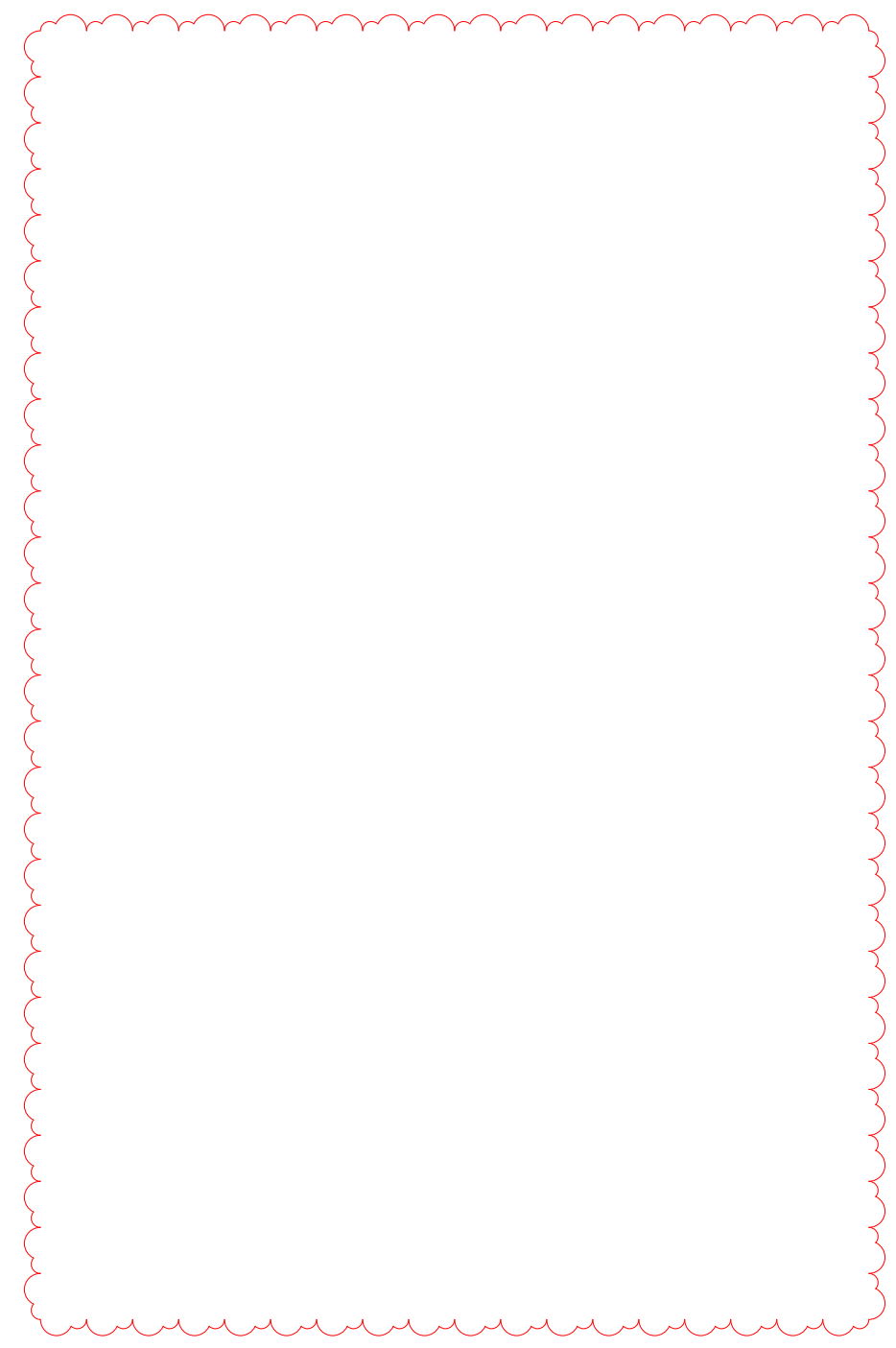
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- CN. GENERAL**
- THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE A PORTION OF THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR AND SUBCONTRACTORS SHALL REFERENCE, AND COORDINATE WITH ALL OTHER DISCIPLINE'S DRAWINGS. ANY DISCREPANCIES OR OMISSIONS SHALL BE REPORTED TO THE STRUCTURAL ENGINEER AND ARCHITECT.
 - DESIGN CRITERIA:
 - GENERAL BUILDING CODE: 2023 FLORIDA BUILDING CODE, 8TH EDITION (2023)
 - DESIGN LOAD CRITERIA: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS, ASCE 7
 - FLOOD LOAD CRITERIA: FLOOD RESISTANT DESIGN AND CONSTRUCTION, AMERICAN SOCIETY OF CIVIL ENGINEER, ASCE 24
 - CONCRETE: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, AMERICAN CONCRETE INSTITUTE, ACI 318
 - STRUCTURAL STEEL: SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC 360
 - STEEL JOISTS: STANDARD SPECIFICATIONS FOR K-SERIES, LH-SERIES, AND DLH-SERIES OPEN WEB STEEL JOISTS AND FOR JOIST GIRDERS, STEEL JOIST INSTITUTE, SJI-100
 - STEEL DECK: STANDARD FOR STEEL ROOF DECK, STANDARD FOR NON-COMPOSITE STEEL FLOOR DECK, STANDARD FOR COMPOSITE STEEL FLOOR DECK SLAB, STEEL DECK INSTITUTE, SDI RD, SDI NC, SDI C
 - MASONRY: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, THE MASONRY SOCIETY, TMS 402
 - DESIGN LOADS
 - DEAD LOADS (PSF):
 - ROOF -----SELF WEIGHT +(15 SUPERIMPOSED)
 - ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER OF RECORD FOR VERIFICATION OF LOAD-CARRYING CAPACITY.
 - LIVE LOADS (PSF):
 - ROOF (REDUCIBLE)-----20
 - WIND LOADS:
 - ULTIMATE DESIGN WIND SPEED, VuT (MPH)-----145
 - ALLOWABLE DESIGN WIND SPEED, Vsd (MPH)-----113
 - RISK CATEGORY-----II
 - EXPOSURE CATEGORY-----C
 - INTERNAL PRESSURE COEFFICIENT-----±0.18
 - FOR WALL COMPONENT AND CLADDING PRESSURES - SEE TYPICAL DETAILS
 - SUBMITTALS:
 - REVIEW OF SHOP DRAWINGS AND OTHER SUBMITTALS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTING TO THE STRUCTURAL ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF THE SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. ALL SHOP DRAWINGS MUST BE REVIEWED AND "APPROVED" BY THE CONTRACTOR PRIOR TO SUBMITTAL.
 - ELECTRONIC SHOP DRAWINGS ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER IN .PDF FORMAT.
 - RESUBMITTED SHOP DRAWINGS SHALL HAVE ALL NOTED CHANGES SINCE THE PREVIOUS SUBMISSION IDENTIFIED BY CLOUDING OR OTHERWISE CLEARLY IDENTIFIED.
 - SHOP DRAWINGS: THE CONTRACTOR SHALL SUBMIT FOR REVIEW ALL SHOP DRAWINGS AND DELEGATED DESIGN DRAWINGS REFERENCED ON THE SUBMITTAL SCHEDULE SHOWN IN TYPICAL DETAILS. DELEGATED DESIGN DRAWINGS ARE TO BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. CALCULATIONS SIGNED AND SEALED BY THE LICENSED ENGINEER SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW.
 - ALL DETAILS SHOWN IN THE DRAWINGS ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS.
 - THE CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCING, AND PROCEDURE OF CONSTRUCTION.
 - CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS/ROOFS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED THE NOTED DESIGN LIVE LOADS.
- FD. FOUNDATIONS**
- GEOTECHNICAL ENGINEER: INTERTEK PST
GEOTECHNICAL REPORT TITLE: PROPOSED HILLSBOROUGH COUNTY SHERIFF K9 FACILITY
JOB NUMBER: 0775-3584
REPORT DATE: DECEMBER 20, 2023
 - SHALLOW FOUNDATION ALLOWABLE BEARING PRESSURES:
STRIP FOUNDATIONS-----2500 PSF
SPREAD FOUNDATIONS-----2500 PSF
 - ALL FOUNDATION BEARING SURFACES SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE TO ENSURE COMPLIANCE WITH NOTED PRESSURES.
 - FINAL BEARING ELEVATIONS MAY VARY AS REQUIRED TO PROVIDE PROPER BEARING CAPACITY IN AN APPROVED BEARING STRATUM AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
 - FOOTINGS SHALL BE NEATLY EXCAVATED WHERE POSSIBLE AND FREE OF LOOSE OR WET MATERIALS. WHERE SOFT OR UNSUITABLE BEARING SURFACES ARE ENCOUNTERED, THE AREA SHALL BE UNDERCUT AS REQUIRED AND REPLACED WITH LEAN CONCRETE OR COMPACTED, DENSE GRADED STONE AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
 - FOOTINGS SHALL BE PLACED THE SAME DAY AS INSPECTED BY THE GEOTECHNICAL ENGINEER UNLESS OTHERWISE DIRECTED BY THE GEOTECHNICAL ENGINEER.
 - COMPACTED FILL SHALL MEET THE REQUIREMENTS NOTED IN THE GEOTECHNICAL REPORT. EXCAVATED MATERIAL MAY BE USED AS BACKFILL WITH WRITTEN APPROVAL FROM THE GEOTECHNICAL ENGINEER STATING THAT SUCH MATERIAL IS SUITABLE AS BACKFILL AND INSTRUCTIONS ARE GIVEN FOR PROPER MOISTURE CONTENT AND COMPACTION.

- FOUNDATION AND RETAINING WALLS SHALL NOT BE BACKFILLED UNTIL CONCRETE HAS REACHED NOTED 28-DAY COMPRESSIVE STRENGTH.
 - PROVIDE 4" OF COMPACTED GRANULAR FILL BENEATH ALL SLABS ON GRADE. PROVIDE 10 MIL VAPOR RETARDER BETWEEN BOTTOM OF SLAB AND TOP OF GRANULAR FILL.
- CN. CONCRETE**
- CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.
 - FOR MINIMUM CONCRETE COMPRESSIVE STRENGTHS, SEE TABLE IN TYPICAL DETAILS.
 - REINFORCING BARS USED IN CONCRETE SHALL MEET ASTM A615, GRADE 60.
 - WELDED WIRE REINFORCEMENT (WWR) USED IN CONCRETE SHALL MEET ASTM A185. MINIMUM LAB AND EMBEDMENT TO BE THE GREATER OF ONE CROSS WIRE SPACING + 2", OR 6".
 - FOR REINFORCEMENT COVER REQUIREMENTS, SEE TABLE IN TYPICAL DETAILS.
 - REINFORCING BARS SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC REPRESENTATION OF THE MEMBER REINFORCEMENT. SEE SCHEDULES, SECTION NOTES, AND GENERAL NOTES FOR ACTUAL REINFORCEMENT REQUIRED. DO NOT SCALE OFF OF SECTIONS.
 - DETAILING, FABRICATION, AND PLACEMENT OF REINFORCEMENT AND ANY ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI 315, GUIDE TO PRESENTING REINFORCING STEEL DESIGN DETAILS. FABRICATION OF REINFORCEMENT STEEL CANNOT BEGIN TILL ENGINEER OF RECORD HAS REVIEWED AND APPROVED SHOP DRAWINGS. SEE SUBMITTAL SCHEDULE FOR SHOP DRAWING REQUIREMENTS.
 - SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES UNLESS NOTED. REINFORCEMENT MARKED CONTINUOUS SHALL BE SPLICED WITH A CLASS "B" TENSION LAP SPLICE. BARS SHALL BE IN CONTACT WHEN MAKING A LAP SPLICE UNLESS OTHERWISE NOTED.
 - DO NOT WELD REINFORCEMENT WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD.
- SS. STRUCTURAL STEEL**
- FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
 - THE STEEL FRAME IS "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR TILL THE LATERAL FORCE RESISTING SYSTEM ELEMENTS AND STABILITY OF THE STRUCTURE IS IN PLACE.
 - STRUCTURAL STEEL AND STRUCTURAL STEEL CONNECTIONS MUST CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS, UNLESS NOTED ELSEWHERE IN THE DOCUMENTS.
 - WIDE FLANGE (W & WT) SHAPES-----ASTM A992
 - MISCELLANEOUS (M & MT), AMERICAN STANDARD (S & ST), AND WIDE FLANGE BEARING PILES (WP) SHAPES-----ASTM A572 GR. 50
 - CHANNELS (C & MC), ANGLES (L)-----ASTM A36
 - STIFFENER PLATES, BASE PLATES, CAP PLATES, AND OTHER CONNECTION PLATES-----ASTM A572 GR. 50
 - HOLLOW STRUCTURAL SECTION (HSS)-----ASTM A500, GR. C
 - STEEL PIPE-----ASTM A53, GR. B
 - HEADED STUDS-----ASTM A108
 - BOLTS-----ASTM F3125
 - NUTS-----ASTM A56
 - ANCHOR RODS-----ASTM F1554 GR. 36
 - THREADED ROD-----ASTM A36
 - WASHERS (FOR STRUCTURAL BOLTS)-----ASTM F436
 - WASHERS (FOR ANCHOR BOLTS)-----ASTM A36
 - WELDED CONNECTIONS-----E70XX ELECTRODES
 - BEAMS ARE TO BE SPACED EQUALLY IN BAYS, UNLESS DIMENSIONED ON PLAN.
 - BEAMS SHALL BE ERECTED WITH NATURAL CAMBER ORIENTED UPWARDS.
 - FABRICATE BRACING MEMBERS WITH SUFFICIENT DRAW TO PREVENT SAGGING.
 - HSS MEMBERS SHALL HAVE 1/4" CLOSURE PLATE.
 - GROUT UNDER BASE PLATES SHALL BE NON-SHRINK, NON-METALLIC TYPE. GROUT SHALL HAVE SPECIFIED DESIGN COMPRESSIVE STRENGTH TWO TIMES THAT OF THE SUPPORTING CONCRETE.
 - STRUCTURAL STEEL MEMBERS SHALL NOT BE CUT, SPLICED, OR MODIFIED IN THE FIELD UNLESS NOTED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
 - STRUCTURAL STEEL NOT EXPOSED TO VIEW SHALL BE PRIMED WITH THE MANUFACTURER'S STANDARD SHOP PRIMER. STRUCTURAL STEEL EXPOSED TO WEATHER IN ITS FINAL POSITION SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123. STRUCTURAL STEEL EXPOSED TO VIEW, REFER TO PROJECT SPECIFICATIONS FOR FINISHED COATING SYSTEM.
 - CONNECTION WORK LINES SHOWN IN THE TYPICAL DETAILS ARE ALONG THE MEMBERS NEUTRAL AXIS UNLESS NOTED.
 - ALL WELD SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STANDARDS AND MUST BE PERFORMED BY A CERTIFIED WELDER.
 - ALL WELD SIZES SHOWN IN THE DRAWINGS ARE CONSIDERED EFFECTIVE WELD SIZES.
 - ALL BOLTED CONNECTIONS SHALL BE BEARING TYPE CONNECTIONS.
 - ALTERNATE CONNECTION DETAILS FROM THOSE SHOWN IN THE TYPICAL DETAILS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD FOR APPROVAL.
 - ALL STRUCTURAL STEEL CONNECTIONS ARE TO BE DESIGNED UNDER DIRECT SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER IN THE STATE IN WHICH THE PROJECT IS LOCATED.
 - DESIGN CALCULATIONS FOR THE CONNECTIONS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD. CONNECTION CALCULATIONS IN THE CALCULATION PACKAGE SHALL BE REPRESENTATIVE OF THE CONNECTIONS DETAILED IN THE SHOP DRAWINGS. THE CALCULATIONS SHALL BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE IN WHICH THE PROJECT IS LOCATED.
 - SEE PLAN NOTES FOR BEAM REACTIONS.
- SJ. STEEL JOISTS**
- DESIGN, FABRICATE, AND ERECT STEEL JOISTS IN ACCORDANCE WITH SJI STANDARDS.
 - PROVIDE MINIMUM END BEARING AT SUPPORTS AS REQUIRED BY SJI. STAGGER ENDS OF JOISTS AS NECESSARY.
 - DECK STEEL DECK SPLICES TO BE OVER JOISTS.
 - PROVIDE HORIZONTAL AND DIAGONAL BRIDGING IN ACCORDANCE WITH SJI TO PROVIDE ADEQUATE BOTTOM CHORD BRACING.
 - DESIGN ROOF JOISTS FOR NET WIND PRESSURES AND ADDITIONAL LOADING SHOWN ON PLAN OR IN SECTIONS. SEE COMPONENTS AND CLADDING TABLES FOR WIND PRESSURES.
 - JOISTS SHALL BE EQUALLY SPACED IN BAYS.
- SD. STEEL DECK**
- SEE PLANS FOR STEEL DECK SIZE AND TOPPING SLAB INFORMATION AS REQUIRED.
 - DECK PROPERTIES, ACCESSORIES, AND ATTACHMENTS SHALL BE ACCORDANCE WITH THE STEEL DECK INSTITUTE (SDI)
 - DECKS SHALL BE CONTINUOUS OVER THREE SPANS.
 - DO NOT SHORE DECK.
 - SHEET STEEL FOR DECKING SHALL BE GRADE A653 SS GR50, MINIMUM.
 - GALVANIZE ROOF DECK AND COMPOSITE DECK TO G90. GALVANIZE NON-COMPOSITE DECK TO G60.
 - STEEL DECK SHALL HAVE A MINIMUM 1-1/2" BEARING AT END CONDITIONS.
 - STEEL DECK SHALL HAVE A MINIMUM 3" BEARING AT INTERMEDIATE CONDITIONS.
 - LIGHT GAGE FRAMING, SUSPENDED CEILING SYSTEMS, MEP SYSTEMS, AND OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL ROOF DECK.

- MA. MASONRY**
- MASONRY CONSTRUCTION SHALL CONFORM TO TMS 402/602.
 - CONCRETE MASONRY UNITS (CMU) SHALL BE NORMAL WEIGHT (DENSITY = 125 PCF), CONFORMING TO ASTM C90, UNLESS NOTED.
 - COMPRESSIVE STRENGTH OF MASONRY (F'm) IS 2000 PSI AT 28 DAYS.
 - COMPRESSIVE STRENGTH OF GROUT (F'g) IS 2500 PSI AT 28 DAYS. GROUT SHALL CONFORM TO ASTM C476 AND BE PLACED IN ACCORDANCE WITH TMS 602.
 - MORTAR SHALL CONFORM TO ASTM C270, TYPE S OR M FOR TYPICAL CONDITIONS (TYPE M FOR BASEMENT WALLS).
 - MASONRY WALLS SHALL BE LAID IN RUNNING BOND, UNLESS NOTED.
 - ALL BLOCK CELLS BELOW GRADE SHALL BE FILLED WITH CONCRETE OR GROUT.
 - SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF CONTROL JOINTS AND OPENINGS.
 - REINFORCING BARS USED IN MASONRY SHALL MEET ASTM A615, GRADE 60.
 - PROVIDE 9 GAUGE GALVANIZED HORIZONTAL JOINT REINFORCING (DUR-O-WALL OR ENGINEER APPROVED SUBSTITUTION) AT ALTERNATE BLOCK COURSES 16" OC VERTICALLY.
 - CONDUIT, PIPING, AND SLEEVES OF ANY MATERIAL TO BE EMBEDDED IN MASONRY SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
 - CANNOT BE MADE OF ALUMINUM.
 - CANNOT PASS THROUGH JAMBS, LINTELS, BOND BEAMS, OR SHEAR WALLS WITHOUT APPROVAL BY THE STRUCTURAL ENGINEER.
 - REINFORCEMENT BARS CANNOT BE CUT, BENT, OR DISPLACED.
 - SPACING OF CONDUIT, PIPE, OR SLEEVE SHALL NOT BE CLOSER THAN 3 DIAMETERS ON CENTER. MINIMUM SPACING OF DIFFERENT DIAMETERS SHALL BE DETERMINED BY THE LARGER DIAMETER.
 - TEMPORARY BRACING OF MASONRY WALLS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL REMAIN IN PLACE UNTIL PERMANENT RESTRAINT IS PROVIDED.



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GENERAL NOTES

#	ISSUED FOR	DATE
1	PERMIT SET	2024-08-11
2	ADDENDUM #2	2024-08-05

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REVIEW BY: DD

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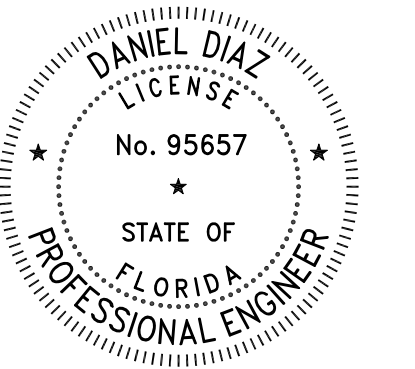
Structural Submittal Schedule					
Submittal Type	Description	For Approval	For Record	Signed & Sealed Shop Dwgs	Signed & Sealed Calcs
31600 FOUNDATIONS					
MILD REINFORCEMENT		X			
33000 STRUCTURAL CONCRETE					
CONCRETE MIX DESIGN	SUBMIT MIX DESIGN FOR EACH CONCRETE MIX DESIGN. NOTE THE USAGE FOR EACH PROVIDED DESIGN. PROVIDE MIX RECIPE, BREAK DATE, AND PRODUCT DATA AS REQUIRED BY ACI 301.	X			
CONCRETE ACCESSORIES	VAPOR BARRIER, REBAR CHAIRS, ETC.	X			
MILD REINFORCEMENT		X			
CONCRETE FORMWORK			X		
EMBEDDED ITEMS	EMBED PLATES, BEARING PLATES, ETC.	X			
HORIZONTAL CONSTRUCTION JOINT LOCATIONS		X			
42000 CONCRETE MASONRY UNITS (CMU)					
MASONRY PRODUCT INFORMATION		X			
MILD REINFORCEMENT	VERTICAL REINF, BOND BEAM REINF, LITEL REINF, BENT BAR SCHEDULE	X			
GROUT MIX DESIGNS	MIX DESIGN AND BREAK DATA	X			
MORTAR MIX DESIGNS		X			
MASONRY ACCESSORIES	BAR SPASCSERS, HORIZONTAL JOINT REINF, ETC.		X		
PRECAST LINTEL DATA		X			
51200 STRUCTURAL STEEL					
STRUCTURAL STEEL		X		X	
STEEL CONNECTION CALCULATIONS	BEAM-BEAM CONNECTIONS, VERTICAL BRACING, MOMENT CONNECTIONS, ETC.	X			X
52100 STEEL JOISTS					
STEEL JOISTS AND JOIST GIRDERS		X			
CALCULATIONS			X		X
53100 STEEL DECK					
STEEL DECK	SUBMIT PLANS SHOWING SPANS, DECK SIZE, AND MATERIAL FOR EACH ROOF AND/OR DECK TYPE.	X			
DECK ATTACHMENT		X			

ABBREVIATIONS	
ADDL	- ADDITIONAL
AR	- ANCHOR ROD
ALT	- ALTERNATE
APPROX	- APPROXIMATELY
ARCH	- ARCHITECT
ARCHL	- ARCHITECTURAL
B/	- BOTTOM OF
BC	- BOTTOM CHORD
BLDG	- BUILDING
BM	- BEAM
BOTT	- BOTTOM
BRG	- BEARING
C/C	- CENTER TO CENTER
CF	- CONTINUOUS FOOTING
CIP	- CAST IN PLACE
CJ	- CONTRACTION JOINT
CJP	- COMPLETE JOINT PENETRATION
CL	- CENTERLINE
CLR	- CLEAR
CMU	- CONCRETE MASONRY UNIT
CNTRD	- CENTERED
COL	- COLUMN
CONC	- CONCRETE
CONFIG	- CONFIGURATION
CONT	- CONTINUOUS
CONTR	- CONTRACTOR
CTR	- CENTER
DBL	- DOUBLE
DD	- DECK DRAIN
DTL	- DETAIL
DIA	- DIAMETER
DIM	- DIMENSION
DN	- DOWN
DR	- DRAIN
DWG	- DRAWING
EA	- EACH
EE	- EACH END
EF	- EACH FACE
EJ	- EXPANSION JOINT
EL	- ELEVATION
ELEV	- ELEVATOR
ENGR	- ENGINEER
EOR	- ENGINEER OF RECORD
EOS	- EDGE OF SLAB
EQ	- EQUAL
EW	- EACH WAY
EXIST	- EXISTING
EXP	- EXPANSION
EXT	- EXTERIOR
FIN	- FINISH
FLR	- FLOOR
FD	- FLOOR DRAIN
FDN	- FOUNDATION
FOM	- FACE OF MASONRY
FS	- FAR SIDE
FT	- FOOT
FF	- FOOTING
FTG	- FOOTING
FV	- FIELD VERIFY
GA	- GAUGE
GALV	- GALVANIZED
GC	- GENERAL CONTRACTOR
GT	- GIRDER TRUSS
HC	- HOLLOW CORE
HCP	- HOLLOW CORE PLANK
HDG	- HOT DIPPED GALVANIZED
HG	- HIP GIRDER
HK	- HOOK
HORIZ	- HORIZONTAL
HP	- HIGH POINT
HS	- HIGH STRENGTH
I	- ISOLATION JOINT
INFO	- INFORMATION
INS	- INSULATION
INT	- INTERIOR
IRR	- IRREGULAR
JB	- JOIST BEARING
JBE	- JOIST BEARING ELEVATION
JR	- JAMB REINFORCING
JT	- JOINT
K	- KIP(S), 1000 POUNDS
KLf	- KIPS PER LINEAR FOOT
KJ	- CONSTRUCTION JOINT
L	- ANGLE
LG	- LONG
LLH	- LONG LEG HORIZONTAL
LLV	- LONG LEG VERTICAL
LP	- LOW POINT
LW	- LONG WAY
LWT	- LIGHTWEIGHT
MFR	- MANUFACTURER
MAS	- MASONRY
MO	- MASONRY OPENING
MATL	- MATERIAL
MAX	- MAXIMUM
MECH	- MECHANICAL
MTL	- METAL
MIN	- MINIMUM
MISC	- MISCELLANEOUS
NS	- NEAR SIDE
NIC	- NOT IN CONTRACT
NTS	- NOT TO SCALE
NW	- NORMAL WEIGHT
OC	- ON CENTER
OH	- OPPOSITE HAND
OPNG	- OPENING
PAF	- POWER ACTUATED FASTENERS
PART	- PARTITION
PARTL	- PARTIAL
PCI	- PRECAST CONCRETE
JOIST	- PARTIAL JOINT PENETRATION
PJP	- PARTIAL JOINT PENETRATION
PL	- PLATE
PLF	- POUNDS PER LINEAR FOOT
PSF	- POUNDS PER SQUARE FOOT
PSI	- POUNDS PER SQUARE INCH
PT	- POST TENSIONED
PT	- PRESSURE TREATED
PNL	- PANEL
R	- RADIUS
REG	- REGULAR
REINF	- REINFORCING
REM	- REMAINDER
REQD	- REQUIRED
REV	- REVISED/REVISION
RM	- ROOM
RO	- ROUGH OPENING
ROMTS	- REQUIREMENTS
SCHED	- SCHEDULE
SECT	- SECTION
SIM	- SIMILAR
SL	- SLOPE
SOG	- SLAB-ON-GRADE
SP	- SPIRAL
SQ	- SQUARE
SS	- STAINLESS STEEL
STD	- STANDARD
STL	- STEEL
STRUCTL	- STRUCTURAL
SW#	- SHEARWALL
SW	- SHORT WAY
TI	- TOP OF
TB	- TIE BEAM
TC	- TIE COLUMN
TEMP	- TEMPERATURE
TG	- TRUSS GIRDER
TH	- TRUSS HIP
THK	- THICK
TJ	- TRUSS JACK
TR	- TRUSS
TYP	- TYPICAL
UNO	- UNLESS NOTED OTHERWISE
VERT	- VERTICAL
W/	- WITH
W/O	- WITHOUT
WD	- WOOD
WF	- WALL FOOTING
WP	- WORK POINT
WWR	- WELDED WIRE REINFORCING

LEGEND	
ITEM	SYMBOL
CONCRETE (COLUMN)	
EARTH	
CONCRETE (WALL)	
CONCRETE SHEARWALL	
LOAD BEARING CONCRETE BLOCK (CMU)	
CONCRETE BLOCK SHEARWALL (CMU)	
NON-LOAD BEARING (INFILL) CONCRETE BLOCK (CMU)	
WOOD WALL	
WOOD SHEARWALL	
LOAD BEARING METAL STUD WALL	
METAL STUD SHEAR WALL	
SECTION INDICATOR	
ELEVATION INDICATOR	
DETAIL INDICATOR	
TOP REBAR	
BOTTOM REBAR	
ITEM	SYMBOL
ELEVATION SYMBOL	
STEP IN FTG., GRADE BM. OR OTHER	
BEAM SPLICE	
MOMENT CONNECTION	
TOP OF STEEL ELEVATION	
AND	
PLATE	
CENTERLINE	
NUMBER (PRECEEDING)	
PLUS OR TENSION	
MINUS OR COMPRESSION	
POUNDS (FOLLOWING)	
STEP IN STRUCTURE OR DEPRESSED SLAB	
COLUMN SYMBOLS	REINFORCING SYMBOLS

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FLORIDA REG. #21
PROJECT #: 23001300TT



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GENERAL NOTES AND ABBREVIATIONS

#	ISSUED FOR	DATE
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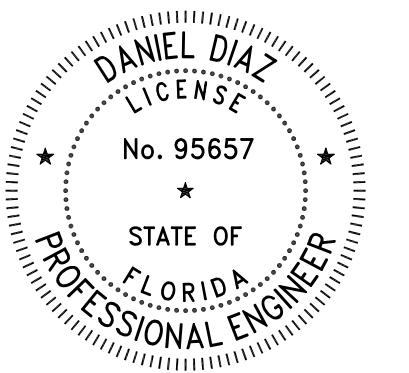
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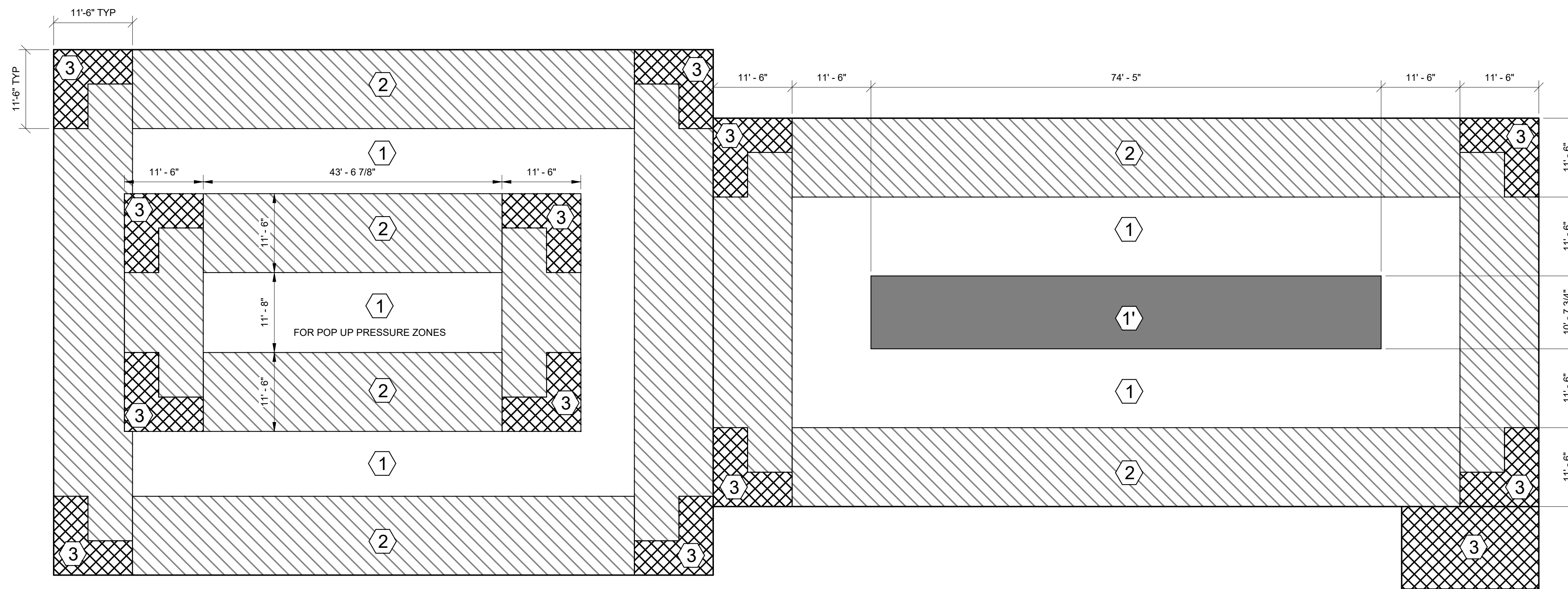
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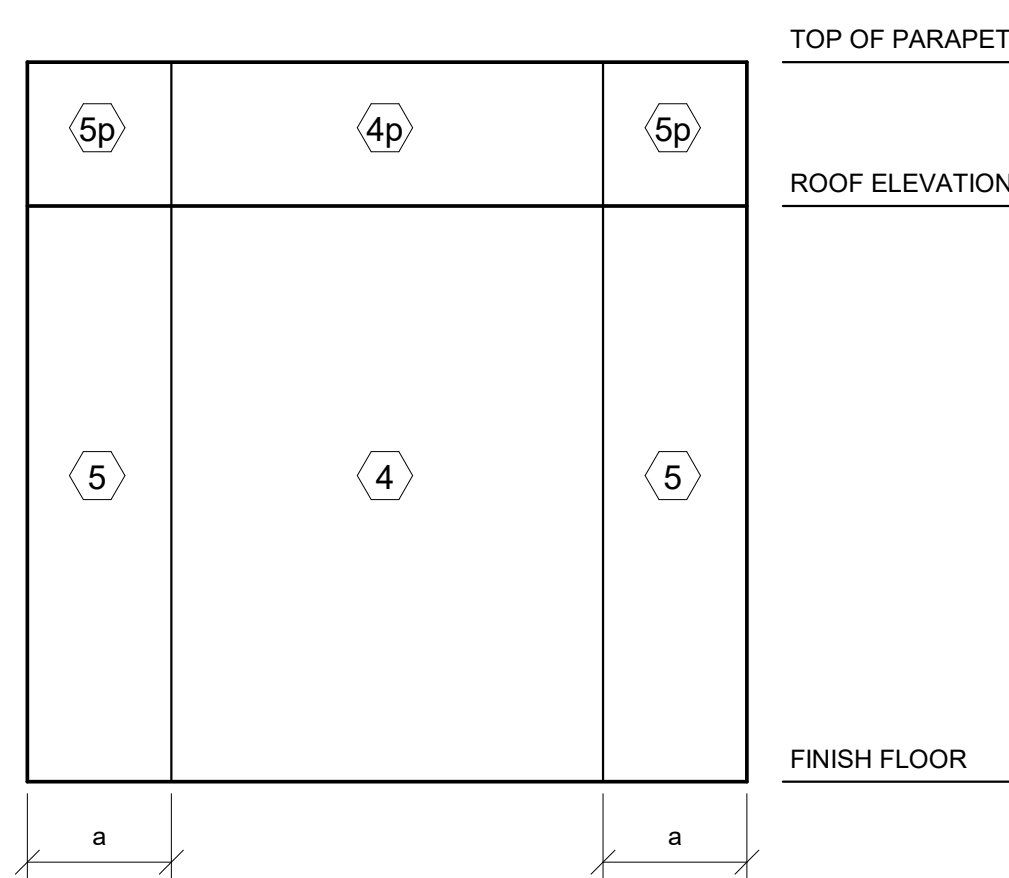
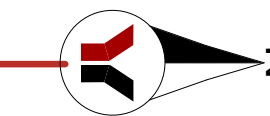
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Flat Roof Pressures		
Area (sq. ft)	Max + Pressure (psf)	Max - Pressure (psf)
Interior Zone 1*		
10	19.6	-16.0
20	18.4	-16.0
50	16.8	-16.0
100	16.0	-16.0
200	16.0	-16.0
≥500	16.0	-16.0
Interior Zone 1		
10	18.9	-74.0
20	17.7	-69.2
50	16.2	-62.7
100	16.0	-57.8
200	16.0	-52.9
≥500	16.0	-46.5
Perimeter Zone 2		
10	18.9	-97.7
20	17.7	-91.4
50	16.2	-83.1
100	16.0	-76.8
200	16.0	-70.5
≥500	16.0	-62.2
Corner Zone 3		
10	18.9	-133.1
20	17.7	-120.6
50	16.2	-103.9
100	16.0	-91.4
200	16.0	-78.8
≥500	16.0	-62.2

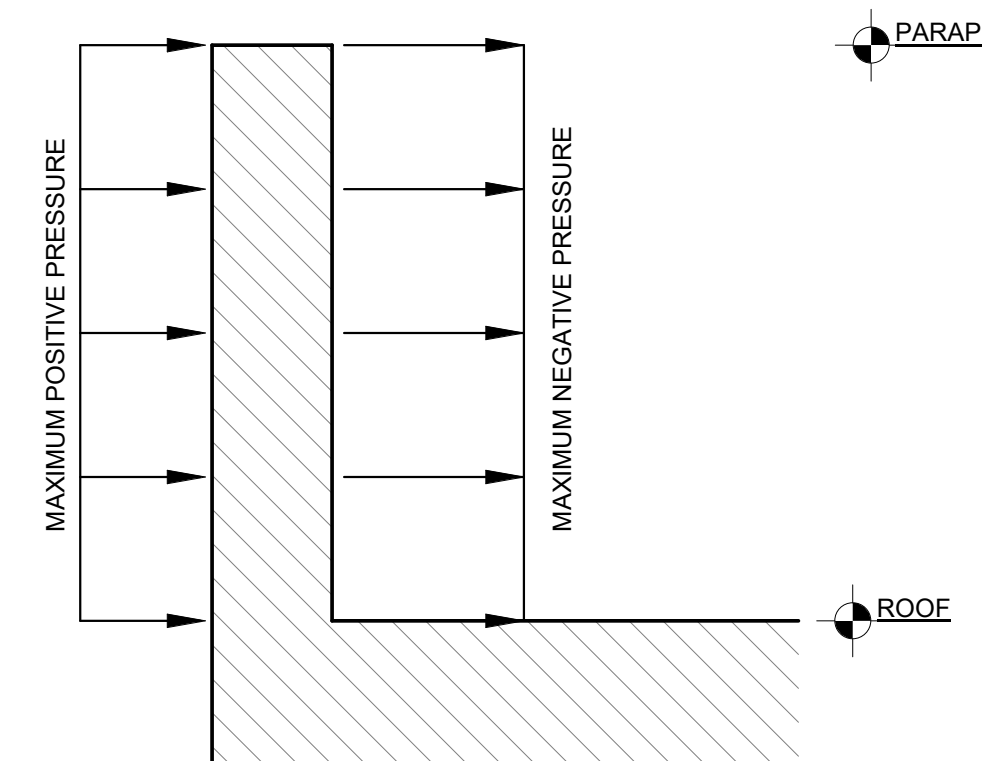
1 C&C Zones
3/32" = 1'-0"

2 Flat Roof Components and Cladding Wind Pressures
3/4" = 1'-0"



Wall Pressures		
Area (sq. ft)	Max + Pressure (psf)	Max - Pressure (psf)
Interior Zone 4		
10	44.1	-47.8
20	42.2	-45.9
50	39.6	-43.3
100	37.6	-41.3
200	35.7	-39.4
≥500	33.1	-36.8
Corner Zone 5		
10	44.1	-58.9
20	42.2	-54.9
50	39.6	-49.8
100	37.6	-45.9
200	35.7	-42.0
≥500	33.1	-36.8

WIDTH OF EDGE STRIP: a = 11' - 6"



NOTES:
1. IN DESIGN OF METAL STUD PARAPETS, ADD ABSOLUTE VALUES OF MAXIMUM POSITIVE AND NEGATIVE PARAPET PRESSURES IN APPLICABLE ZONE.
2. IN DESIGN OF EXTERIOR FINISHES ATTACHMENT, USE THE LARGEST ABSOLUTE VALUE OF LISTED PRESSURES FOR THE APPLICABLE ZONE.

5 Parapet Pressure Diagram
3/4" = 1'-0"

Parapet Pressures		
Area (SQ.FT)	Max + Pressure (PSF)	Max - Pressure (PSF)
Interior Zone 4p		
10	45.4	-141.2
20	43.1	-127.9
50	40.5	-110.3
Corner Zone 5p		
10	45.1	-141.2
20	43.1	-127.9
50	40.5	-110.3

6 Parapet Components and Cladding Wind Pressures
3/4" = 1'-0"

3 Wall Components and Cladding Wind Zones
3/4" = 1'-0"

4 Wall Components and Cladding Wind Pressures
3/4" = 1'-0"

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WIND LOADING

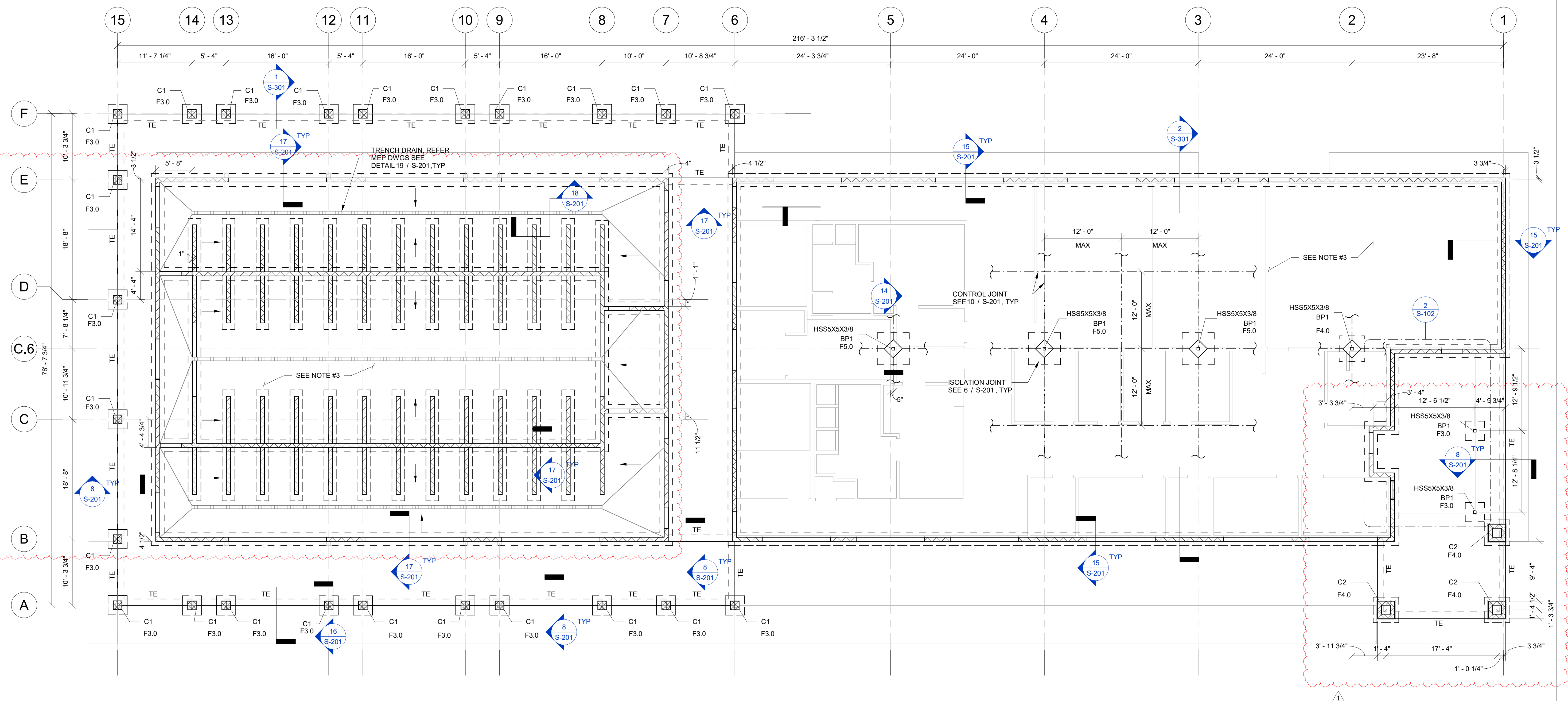
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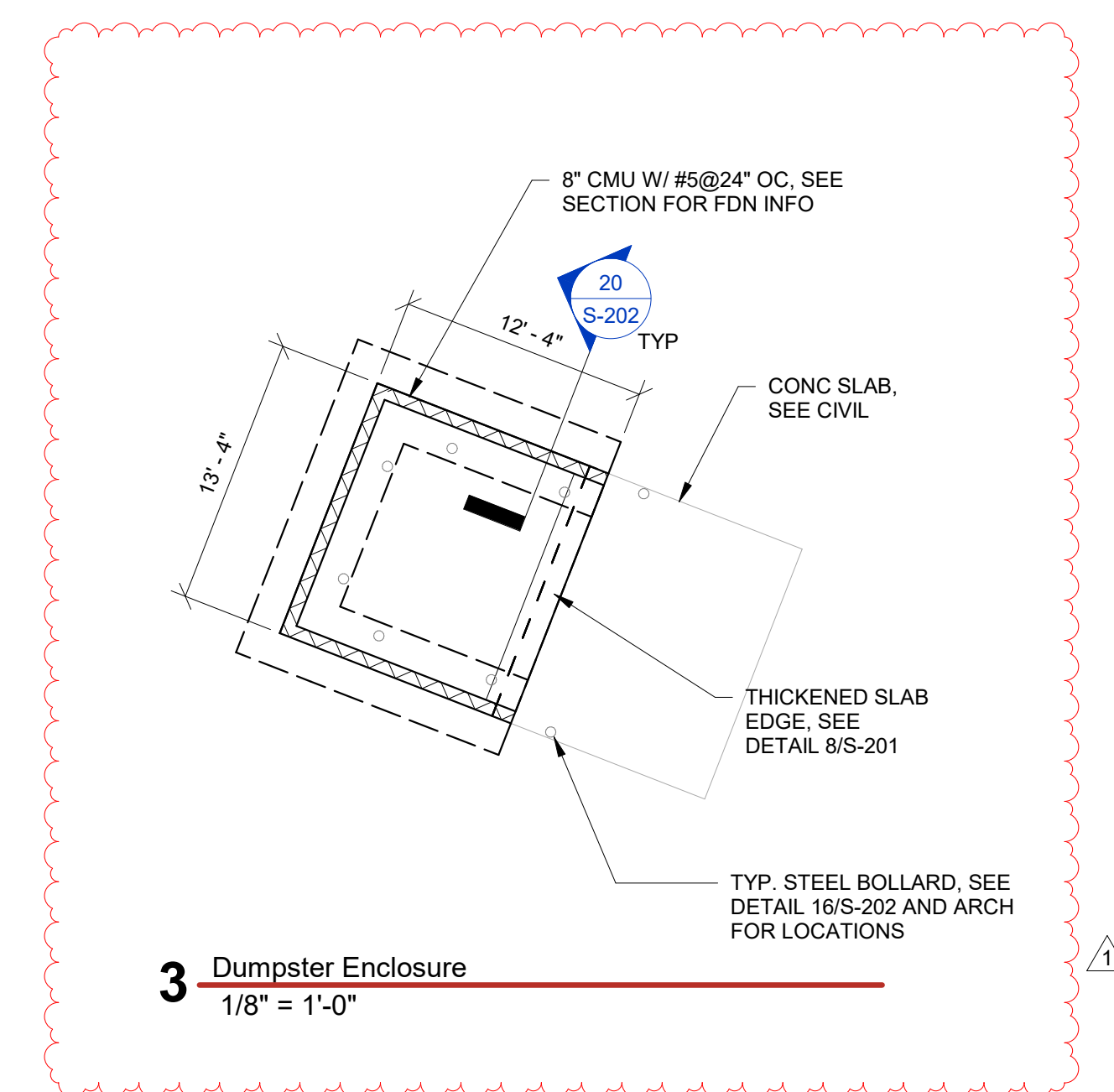
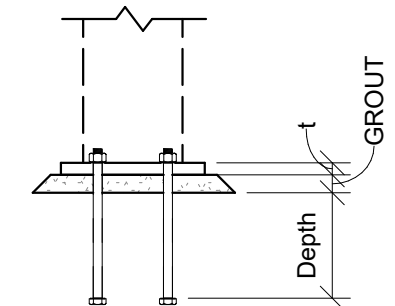
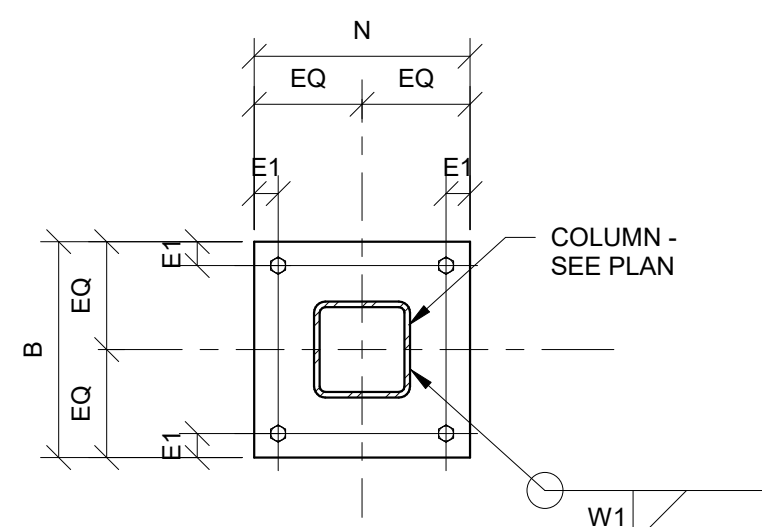


1 Foundation Plan
1/8" = 1'-0"

- NOTES:**
- FINISH FLOOR (SLAB ON GRADE) ELEVATION 0'-0", UNLESS NOTED ON PLAN.
 - TOP OF FOOTING ELEVATION -2'-0" BELOW FINISH FLOOR, UNLESS NOTED ON PLAN.
 - SLAB ON GRADE: 4" THICK CONCRETE, REINFORCED WITH 6X6 W1.4/W1.4 WWR. SEE GENERAL NOTES AND TYPICAL DETAILS.
 - MASONRY COLUMNS:
 - A. C1: 16" X 16" COLUMNS. SEE TYPICAL DETAILS 10 / S-202 FOR REINFORCEMENT.
 - B. C2: 32" X 32" COLUMNS. SEE TYPICAL DETAILS 10 / S-202 FOR REINFORCEMENT.
 - INDICATES SLAB SLOPE DIRECTION, REFER ARCHL FOR DETAILS
 - "TE" INDICATES THICKENED SLAB EDGE REFER DETAIL 8 / S-201

Structural Foundation Schedule						
Mark	Length	Width	Depth	Bottom Reinforcement	Top Reinforcement	Notes
F3.0	3'-0"	3'-0"	1'-6"	(4) #5 EW	(4) #5 EW	
F4.0	4'-0"	4'-0"	1'-6"	(5) #5 EW	-	
F5.0	5'-0"	5'-0"	1'-6"	(6) #5 EW	(6) #5 EW	

Base Plate Schedule											
Mark	Base Plate			Anchor Rods			Weld		Grout		
	N	B	E1 E2	t	#	Dia	Depth	W1		W2	
BP1	12"	12"	1 1/2"	--	3/4"	4	3/4"	12"	1/4"	--	1 1/2"



3 Dumpster Enclosure
1/8" = 1'-0"

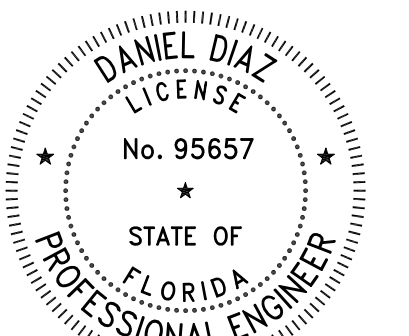
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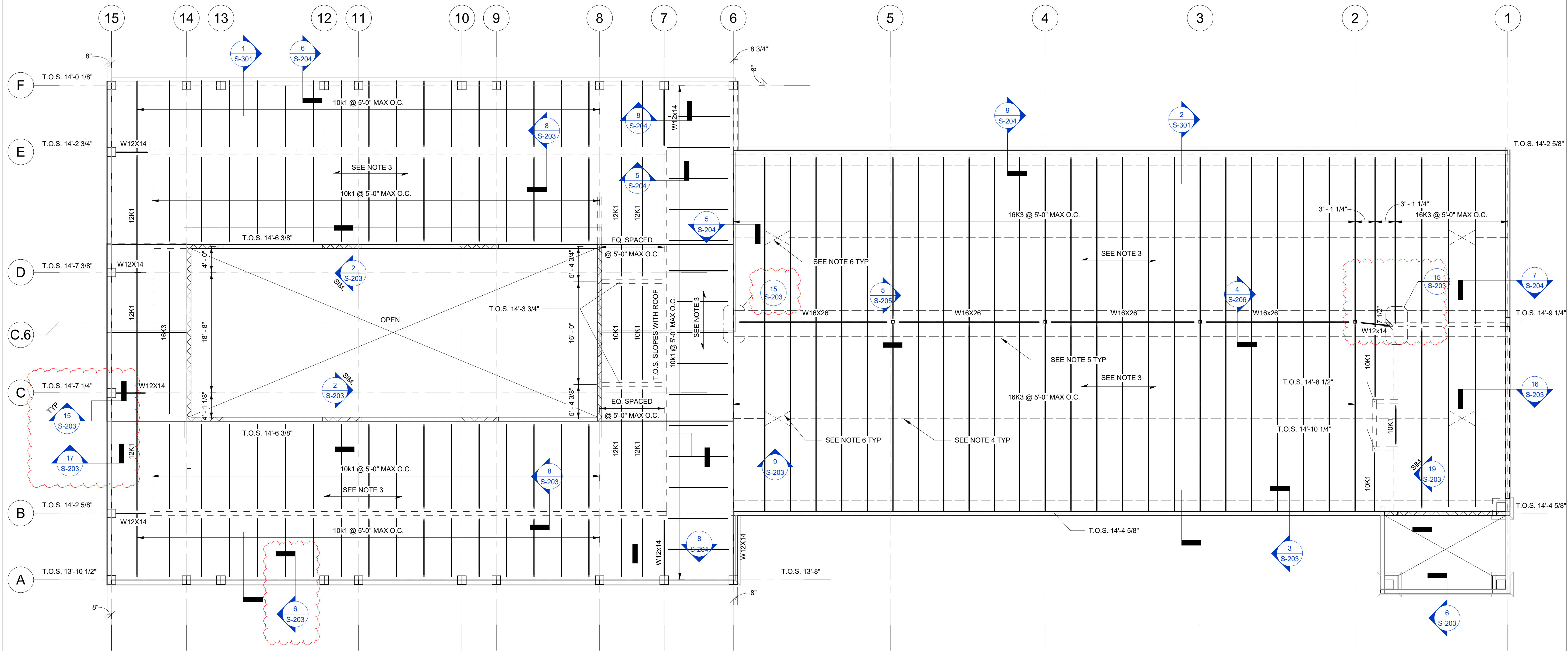
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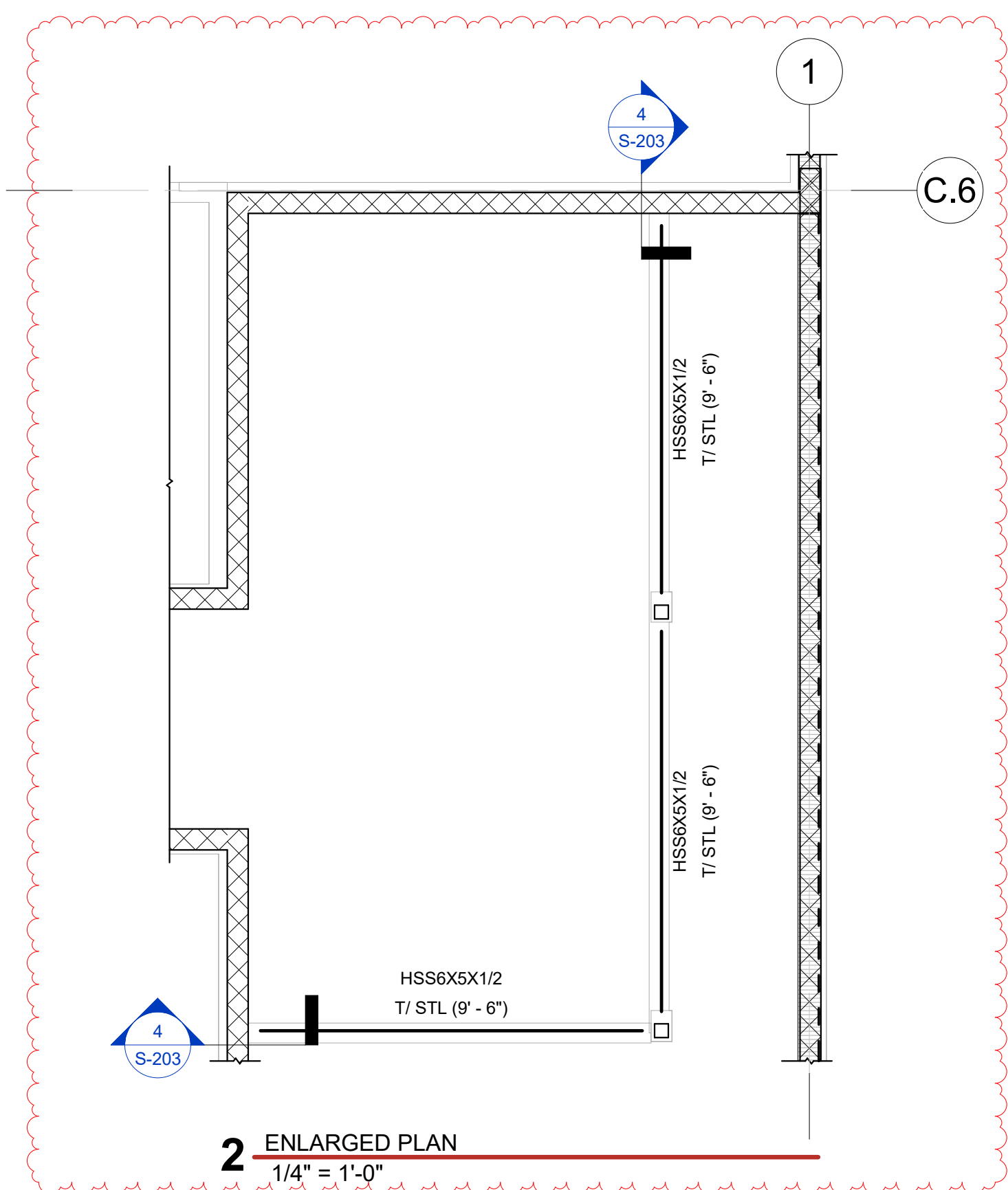


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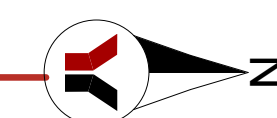


1 Roof Framing Plan
1/8" = 1'-0"

- NOTES:**
- TOP OF STEEL (JOIST BEARING) SEE PLAN.
 - STEEL BEAMS BEAR ON TOP OF COLUMN.
 - ROOF DECK: 1.58-36 STEEL ROOF DECK, 20 GAGE, 1 1/2" DEEP, G90 GALVANIZATION. SHEET STEEL FOR DECK SHALL BE A653 SS GR50 MINIMUM. SEE GENERAL NOTES AND TYPICAL DETAILS FOR MATERIAL PROPERTIES AND DECK ATTACHMENT.
 - HORIZONTAL BRIDGING PER JOIST MFR. MIN. AS SHOWN ON PLAN, TYP.
 - UPLIFT BRIDGING PER JOIST MFR. MIN AS SHOWN ON PLAN, TYP.
 - CROSS BRIDGING IN SPACE ADJACENT TO WALL BY JOIST MFR., TYP.
 - ← INDICATES SPAN OF STRUCTURAL DECK



2 ENLARGED PLAN
1/4" = 1'-0"



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ROOF FRAMING PLAN

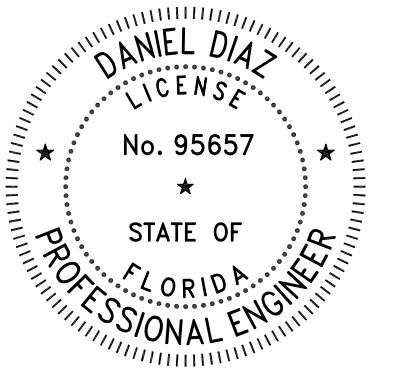
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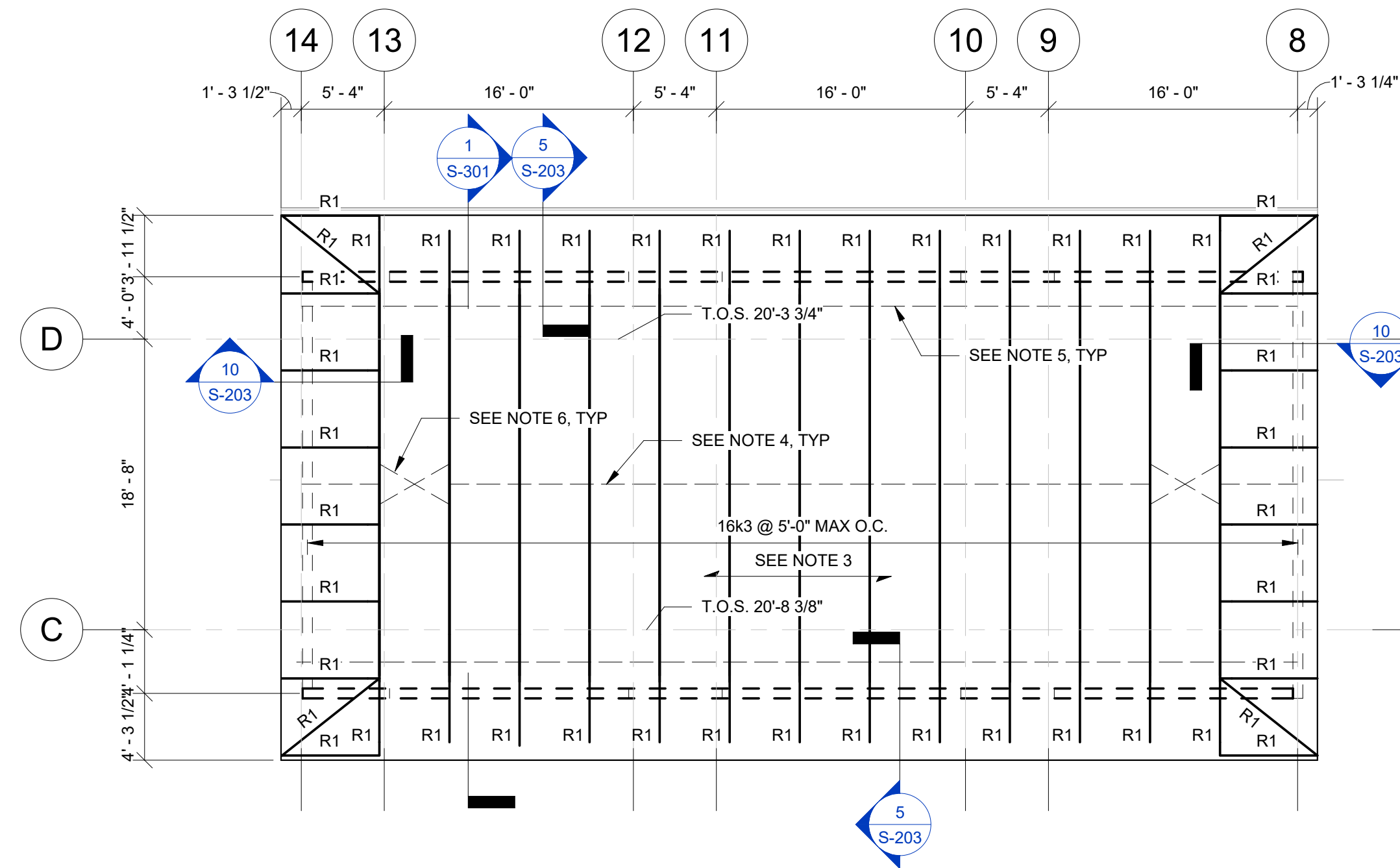
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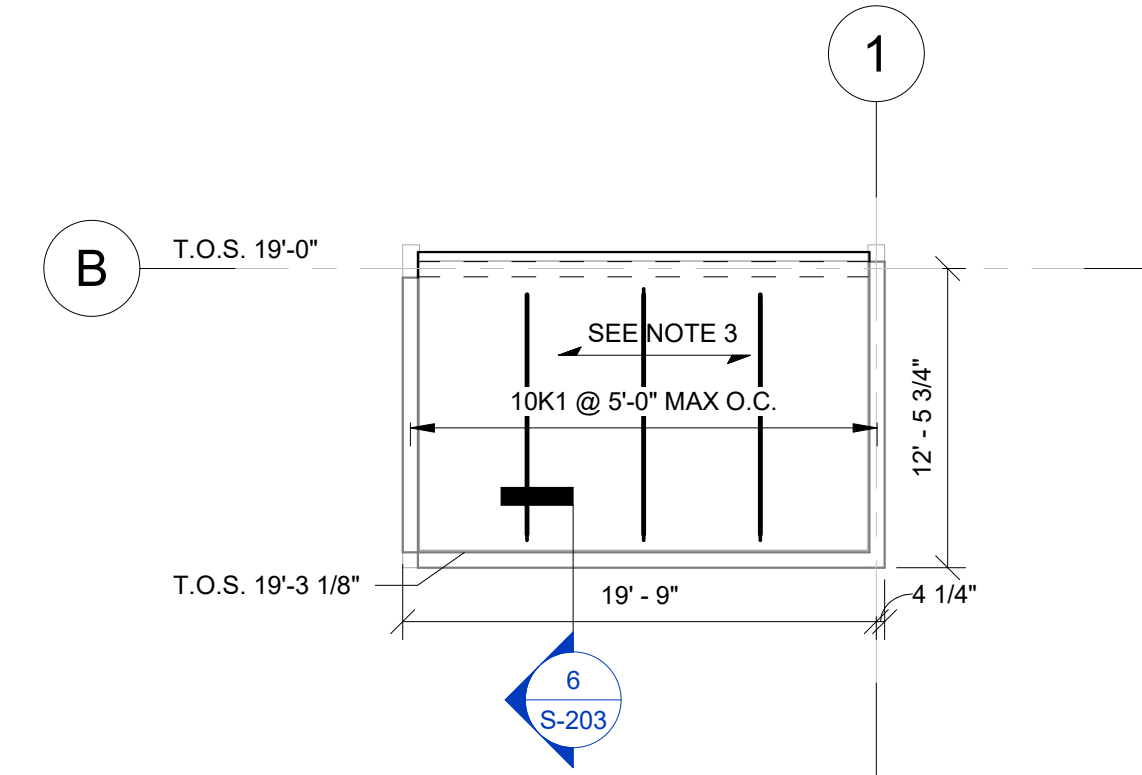
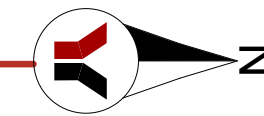
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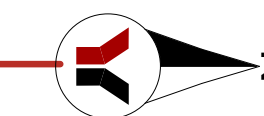
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1 Pop-Up Roof Framing Plan
1/8" = 1'-0"



2 Parapet Roof Framing Plan
1/8" = 1'-0"



- NOTES:**
- TOP OF STEEL (JOIST BEARING) SEE PLAN.
 - STEEL BEAMS BEAR ON TOP OF COLUMN.
 - ROOF DECK: 1.58-36 STEEL ROOF DECK, 20 GAGE, 1 1/2" DEEP, G90 GALVANIZATION. SHEET STEEL FOR DECK SHALL BE A653 SS GR90 MINIMUM. SEE GENERAL NOTES AND TYPICAL DETAILS FOR MATERIAL PROPERTIES AND DECK ATTACHMENT.
 - HORIZONTAL BRIDGING PER JOIST MFR. MIN. AS SHOWN ON PLAN, TYP.
 - UPLIFT BRIDGING PER JOIST MFR. MIN AS SHOWN ON PLAN, TYP.
 - CROSS BRIDGING IN SPACE ADJACENT TO WALL BY JOIST MFR., TYP.
 - ↔ INDICATES SPAN OF STRUCTURAL DECK

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HIGHER ROOF FRAMING PLAN

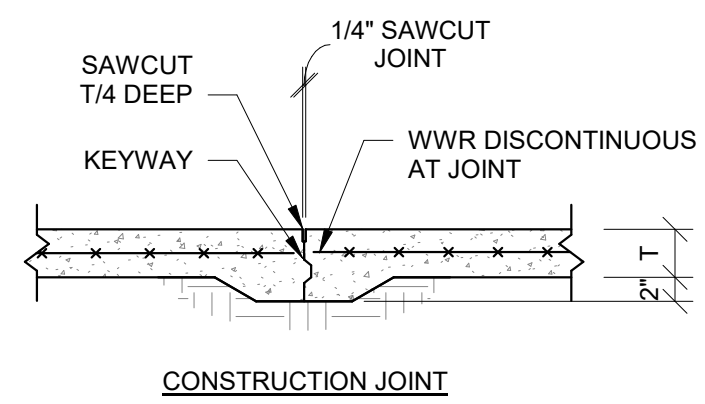
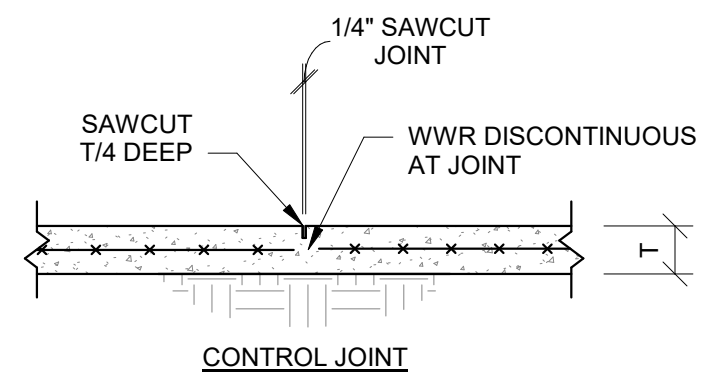
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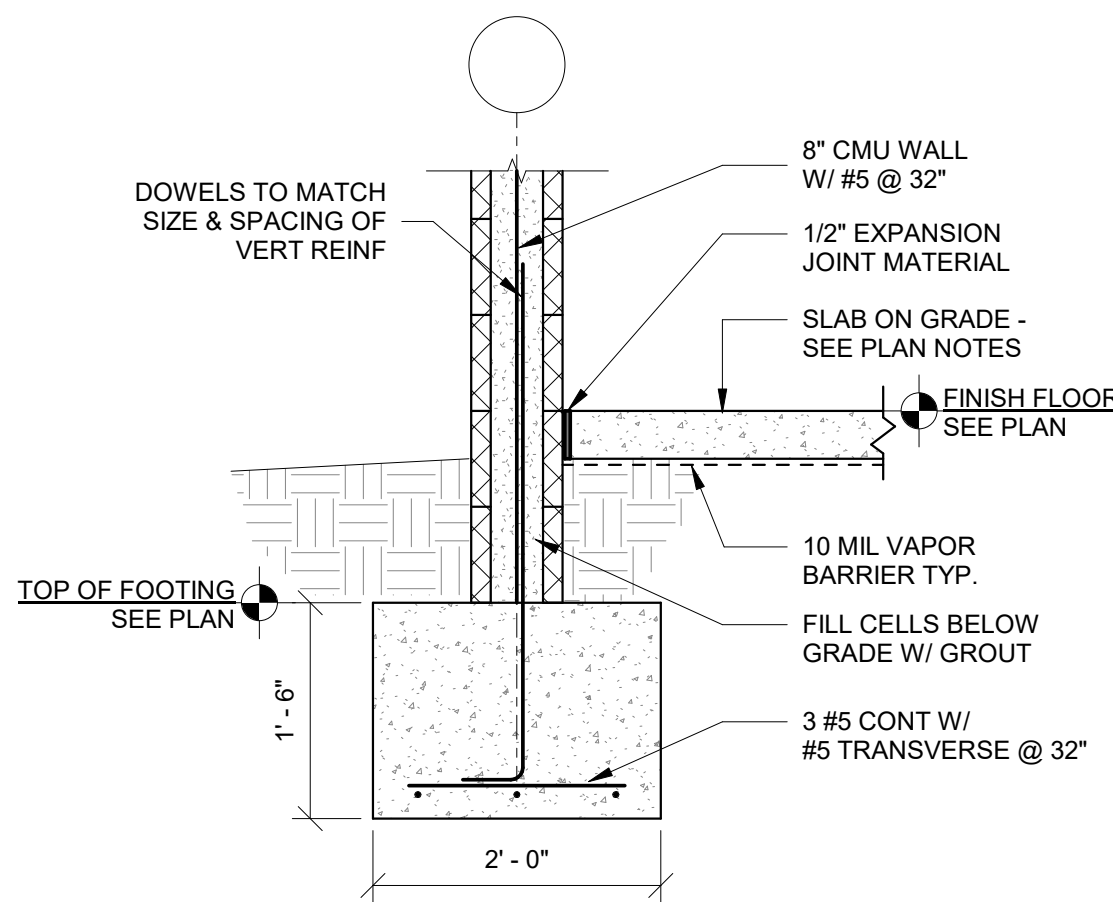
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CONTROL/CONSTRUCTION JOINT NOTES:

1. CUT JOINTS AS SOON AS SLAB IS ABLE TO SUPPORT WEIGHT OF WORKERS AND EQUIPMENT, APPROXIMATELY 4 TO 8 HOURS AFTER CONCRETE PLACEMENT.
2. CLEAN JOINT PRIOR TO FILLING WITH SEMI-RIGID EPOXY.
3. CUT JOINTS AROUND COLUMNS AS SHOWN IN COLUMN ISOLATION DETAIL.
4. FOR LAYOUT OF CONTROL JOINTS, SEE FOUNDATION AND FIRST FLOOR PLAN. IF NO CONTROL JOINTS ARE SHOWN ON PLAN, CONTACT ENGINEER OF RECORD.
5. SEE PLANS AND DETAILS FOR SLAB THICKNESS.
6. CONTRACTOR TO COORDINATE TILE JOINT LOCATIONS WITH CONTROL JOINTS.
7. SEE TYPICAL DETAILS FOR CONCRETE STRENGTH AND WELDED WIRE REINFORCEMENT REQUIREMENTS.

10 Slab on Grade Control Joints
3/4" = 1'-0"

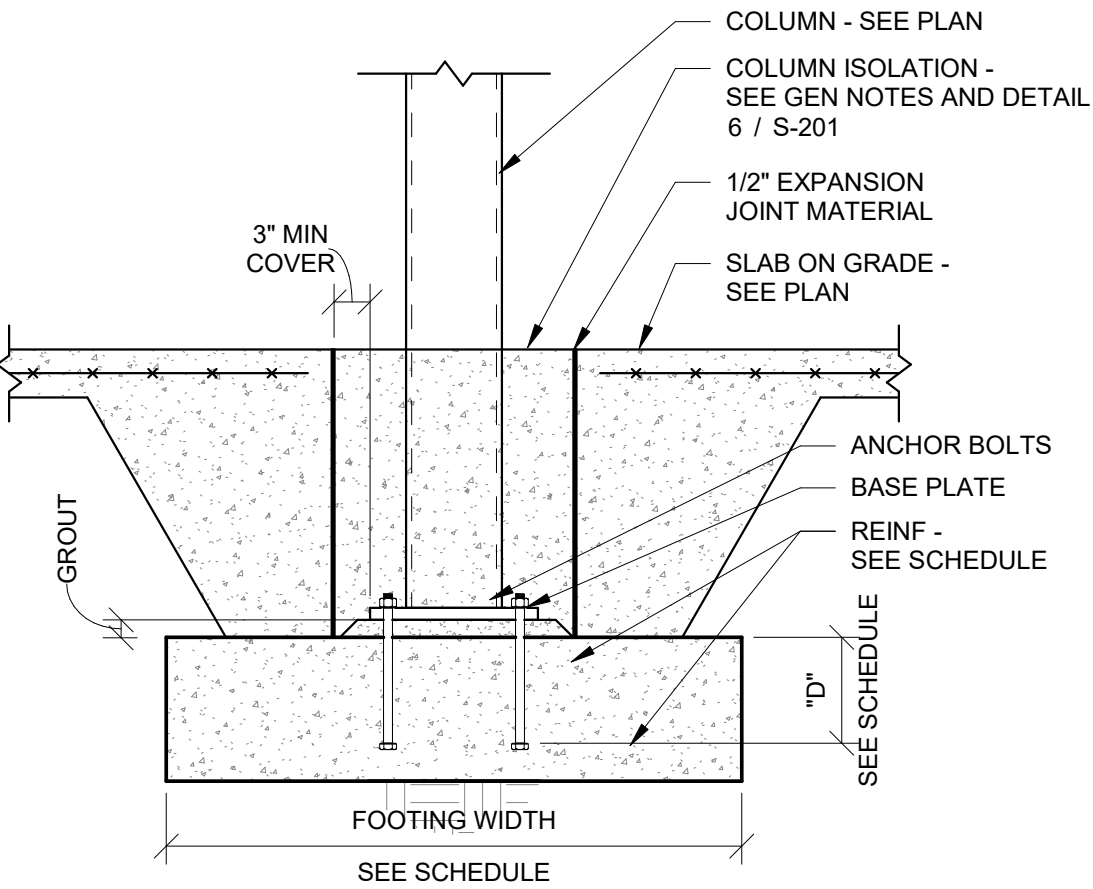


15 Exterior Masonry Wall Footing
3/4" = 1'-0"

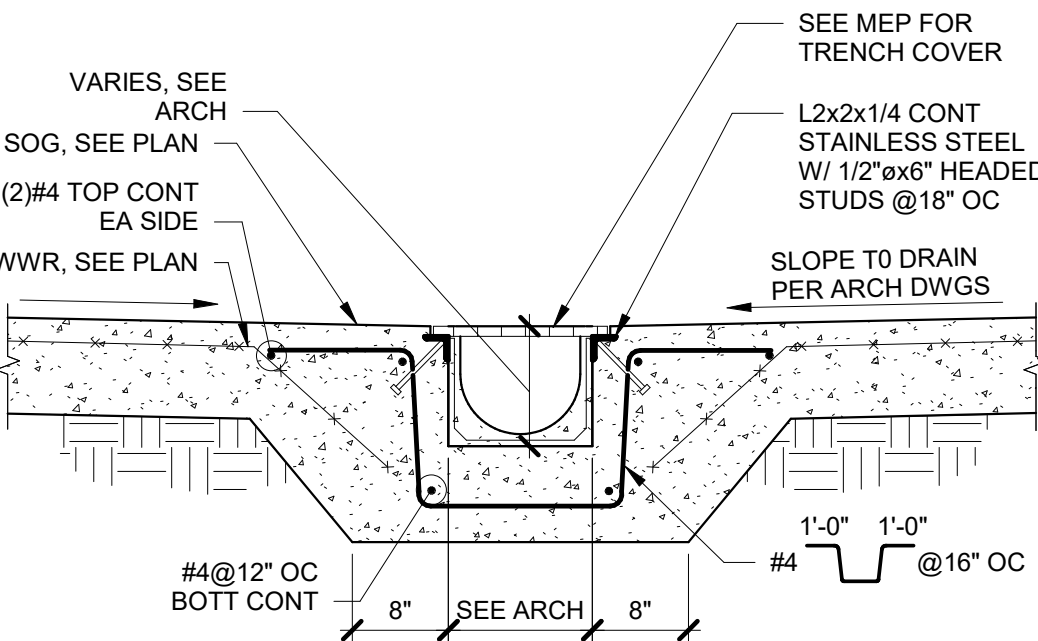
Concrete Tension Lap Splice Lengths								
Bar Size	f _c = 3000 PSI				f _c = 4000 PSI			
	Top Bars		Bottom Bars		Top Bars		Bottom Bars	
	A	B	A	B	A	B	A	B
#3	22"	29"	17"	23"	19"	25"	15"	20"
#4	29"	38"	22"	29"	25"	33"	19"	25"
#5	36"	47"	28"	37"	31"	41"	24"	32"
#6	43"	56"	33"	43"	37"	49"	29"	38"
#7	63"	82"	48"	63"	54"	71"	42"	55"
#8	72"	94"	55"	72"	62"	81"	48"	63"
#9	81"	106"	62"	81"	70"	91"	54"	71"
#10	91"	119"	70"	91"	79"	103"	61"	80"
#11	101"	132"	78"	102"	87"	114"	67"	88"
#14	121"	158"	93"	121"	105"	137"	81"	106"

1. TABULATED TENSION LAP SPLICE LENGTHS ARE FOR NORMAL WEIGHT CONCRETE ONLY AND HAVE NOT BEEN FACTORED FOR EPOXY-COATED BARS.
2. ALL LENGTHS ARE IN INCHES (IN).
3. TABULATED VALUES ARE CALCULATED PER ACI 318-14, CHAPTER 25.
4. WHEN LAP SPLICING BARS OF DIFFERENT SIZES, THE LAP LENGTH IS DETERMINED BY THE LARGER BAR.
5. TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" CONCRETE CAST BELOW REINFORCEMENT.
6. TABLE SHALL APPLY ONLY WHEN ACI 318 MINIMUM COVER IS PROVIDED AND THE CENTER-TO-CENTER SPACING IS ≥ 3db

9 Tension Lap Splice Lengths by Concrete Compression Strength
3/4" = 1'-0"



14 HSS Column Base Detail
3/4" = 1'-0"

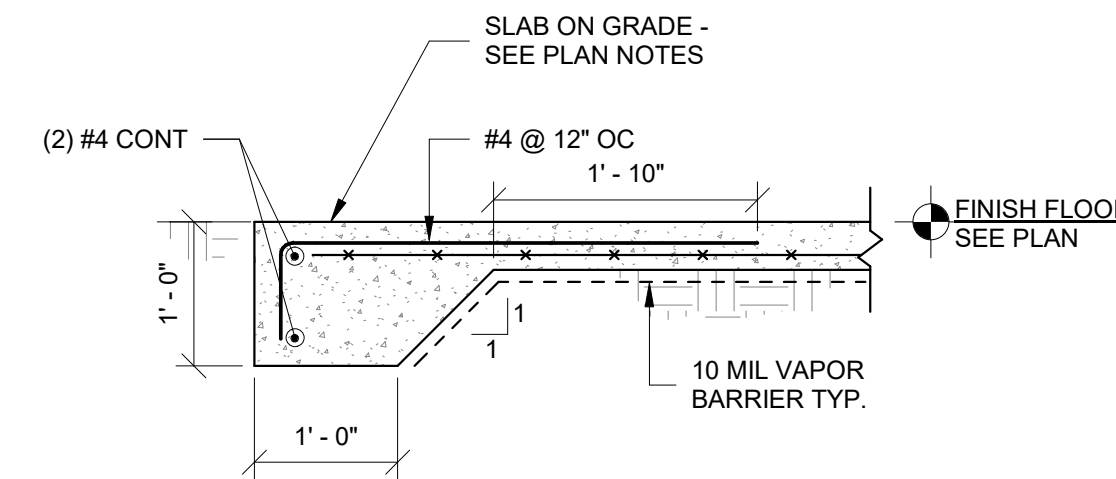


19 Section at Trench Drain
3/4" = 1'-0"

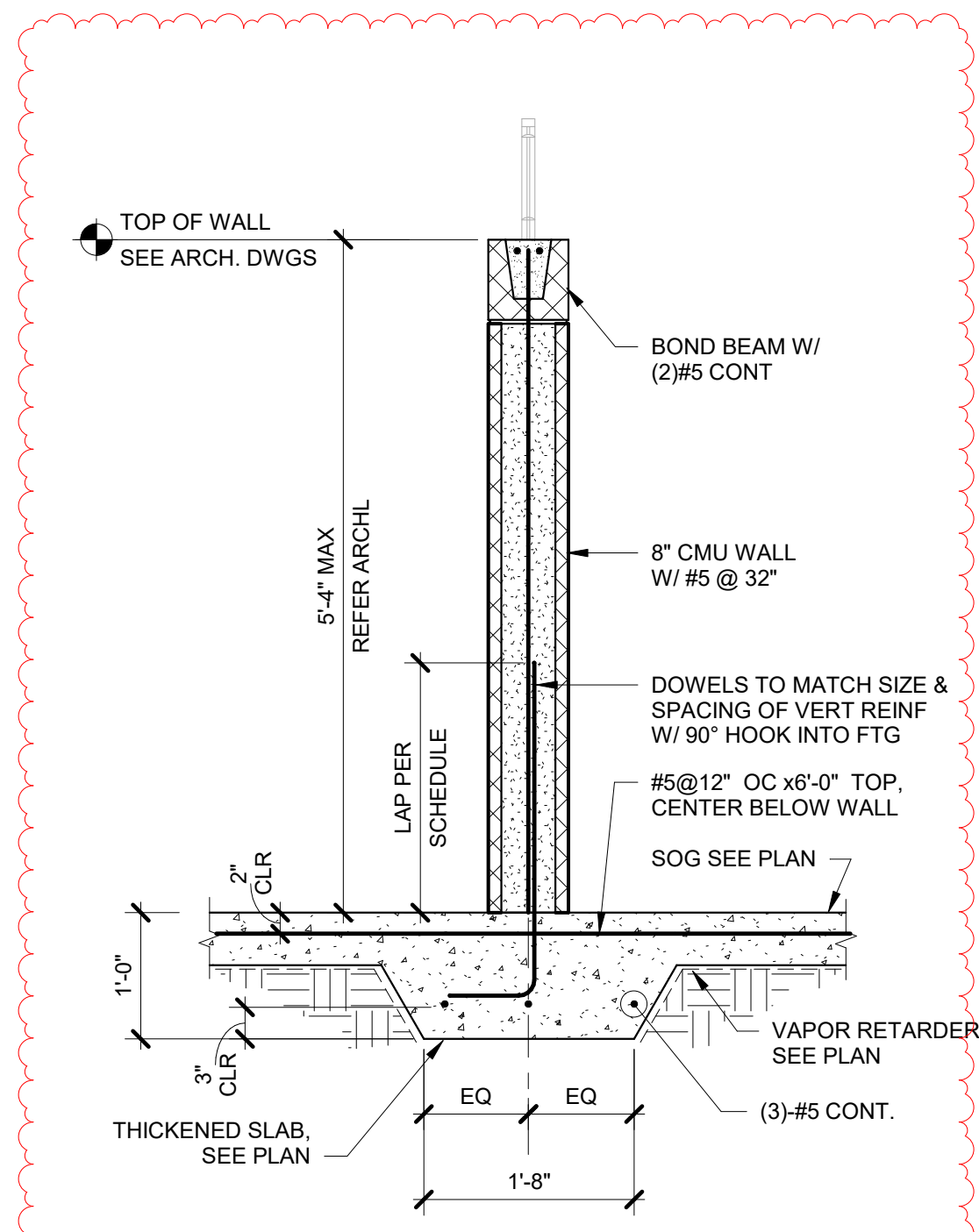
Concrete Compressive Strengths		
Structural Element	Exposure Class	Design Strength, f _c (PSI)
Foundations and Stem Walls	C1	3000
Slab on Grade	C1	3000
Concrete on Metal Deck	W0	3500
Columns	W0	5000
Walls	W0	5000
Elevated Slabs	W0	5000

1. NOTED EXPOSURE CLASSES ARE IN REFERENCE TO CHAPTER 19 OF ACI 318-14. MINIMUM AND MAXIMUM REQUIREMENTS BASED ON TABLE 19.3.2.1.
2. CONCRETE COMPRESSIVE STRENGTHS NOTED ARE MINIMUM REQUIREMENTS USED IN DESIGN.

3 Concrete Compressive Strengths
3/4" = 1'-0"



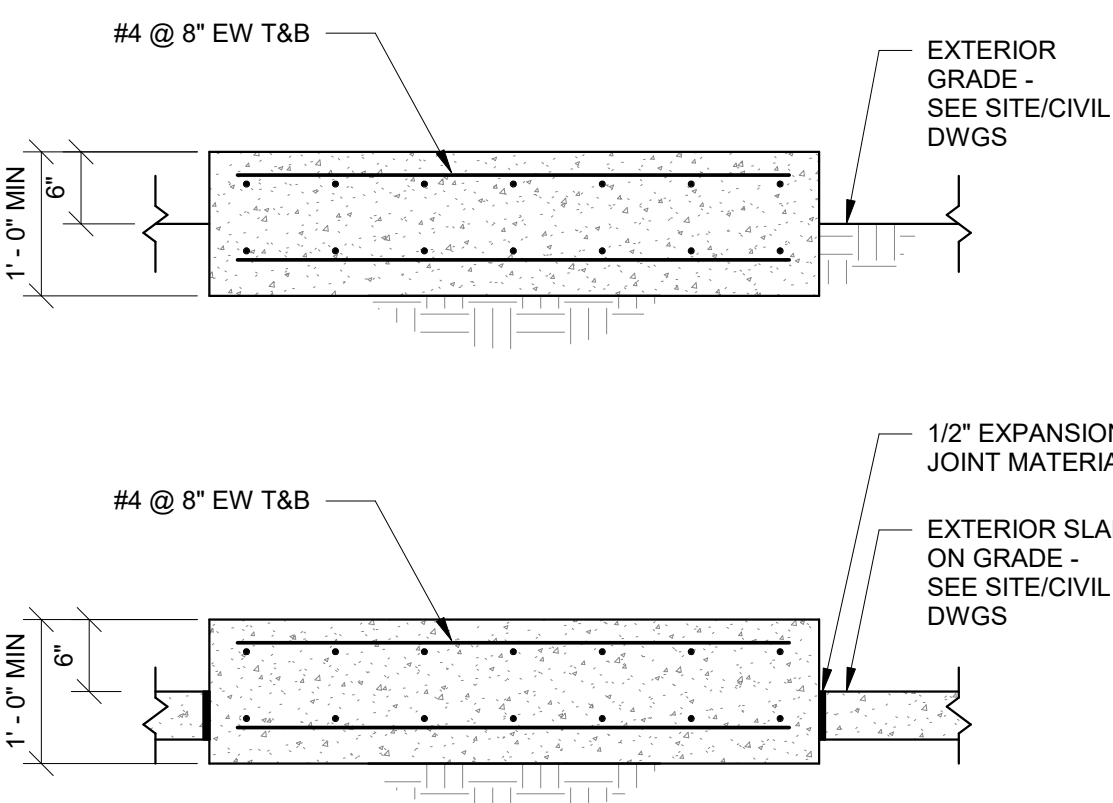
8 Thickened Slab Edge Detail
3/4" = 1'-0"



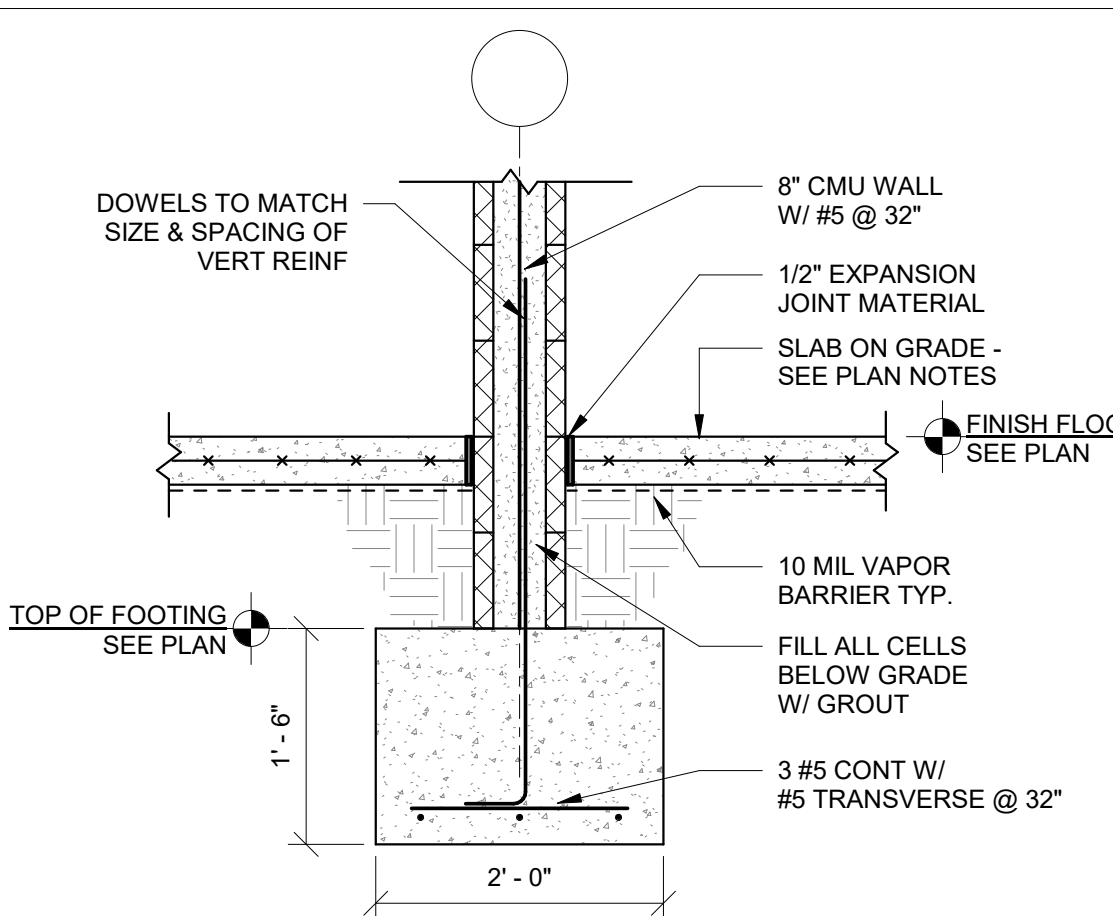
18 CMU AT THICKENED SLAB FOOTING
3/4" = 1'-0"

Concrete Cover Requirements		
Structural Element	Reinforcement	Cover (in)
Members Not Exposed to Weather or in Contact With Ground		
Slabs	All	3/4"
Joists	All	3/4"
Walls	All	3/4"
Beams	To Stirrups	1 1/2"
Columns	To Stirrups	1 1/2"
Members Exposed to Weather or in Contact With Ground		
Slabs	#5 or Smaller	1 1/2"
	#6 or Larger	2"
Columns/Pedestals	#5 or Smaller	1 1/2"
	#6 or Larger	2"
Walls	#5 or Smaller	1 1/2"
	#6 or Larger	2"
Slab on Grade	WWR	2" From Top
Foundations and Grade Beams	Bottom/Side	3"
	Top	2"

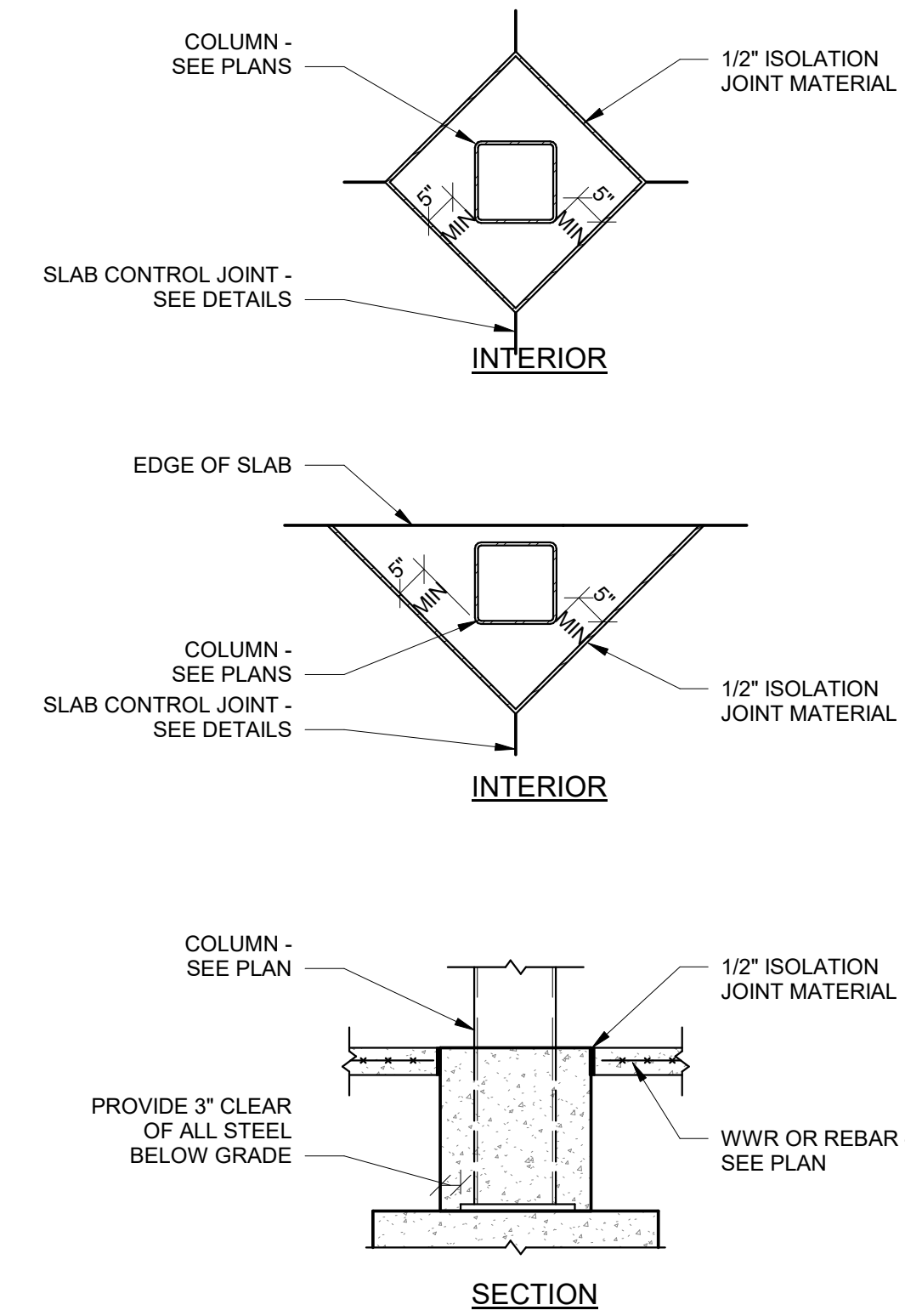
7 Concrete Cover Requirements
3/4" = 1'-0"



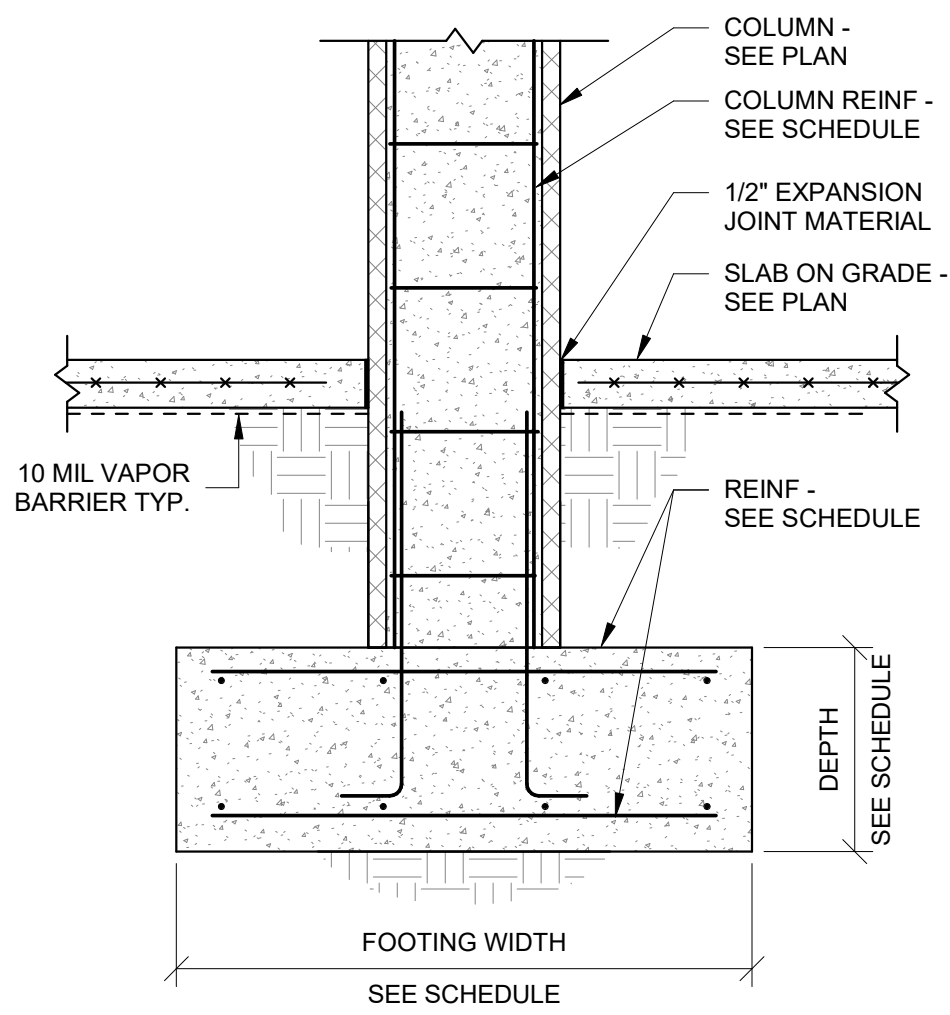
12 New Mechanical Pad
3/4" = 1'-0"



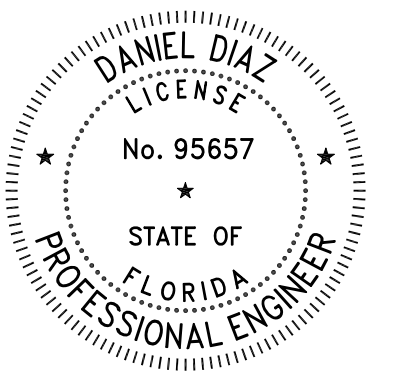
17 Interior Masonry Wall Footing
3/4" = 1'-0"



6 Column Isolation Joint Detail - HSS Columns
1/2" = 1'-0"



16 Masonry Column Base Detail
3/4" = 1'-0"



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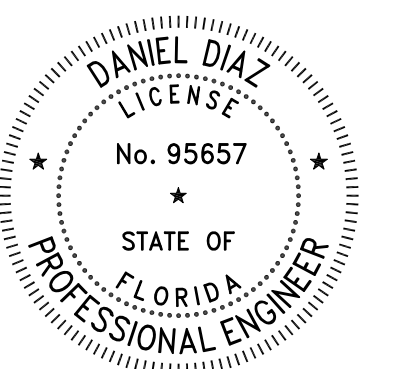
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Bar Size	f _m = 2000 PSI			f _m = 2500 PSI		
	8" CMU	12" CMU	2" Cover	8" CMU	12" CMU	2" Cover
#3	15"	15"	15"	15"	15"	15"
#4	20"	20"	22"	20"	20"	20"
#5	25"	25"	34"	25"	25"	30"
#6	30"	30"	51"	30"	30"	46"
#7	41"	35"	69"	37"	35"	62"
#8	63"	40"	105"	57"	40"	94"

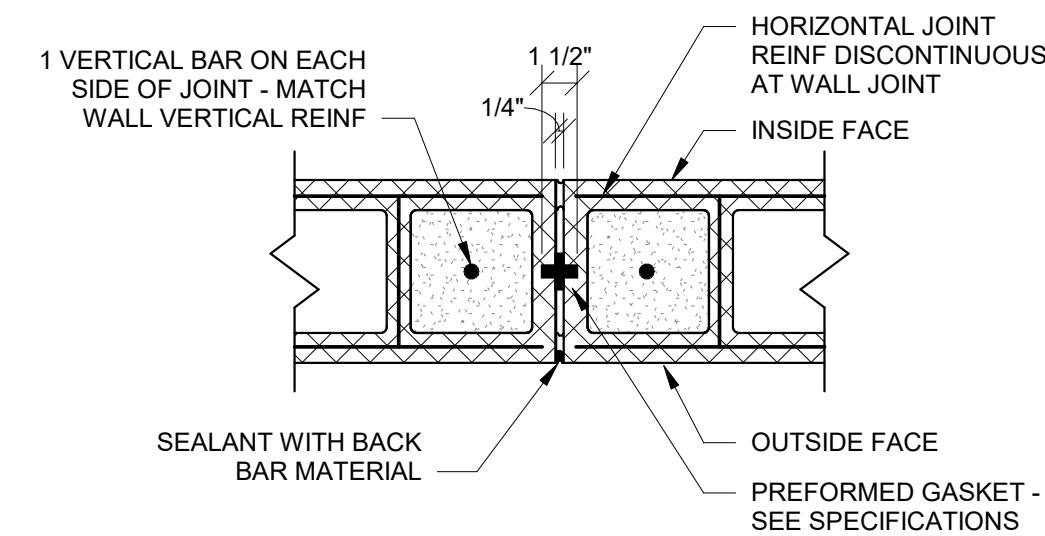
- ALL LENGTHS ARE IN INCHES (IN).
- TABULATED VALUES ARE CALCULATED PER TMS 402, CHAPTER 6.
- WHEN LAP-SPLICING BARS OF DIFFERENT SIZES, THE LAP LENGTH IS DETERMINED BY THE LARGER BAR.

4 Masonry Lap Splice Lengths
3/4" = 1'-0"

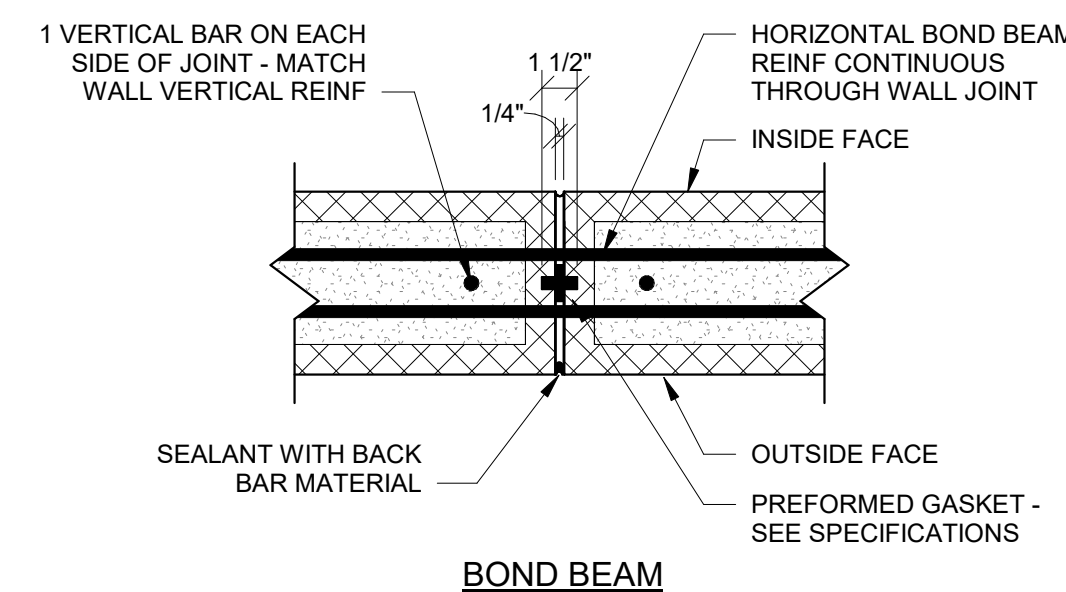
OPENING WIDTH	LINTEL ANGLE
6'-0" to 10'-0"	L6X6X1/2
10'-0" to 12'-0"	L6X6X5/8
12'-0" to 16'-0"	L8X8X5/8

- NOTES:
1. PROVIDE 1/2"x5" NELSON STUDS @ 8" O.C. @ BOTTOM ANGLE LEG, FULLY WELDED TO ANGLE.
2. SNUG TIGHT ANGLE TO CMU WALL

9 Masonry Lintel Schedule and Detail
N.T.S.



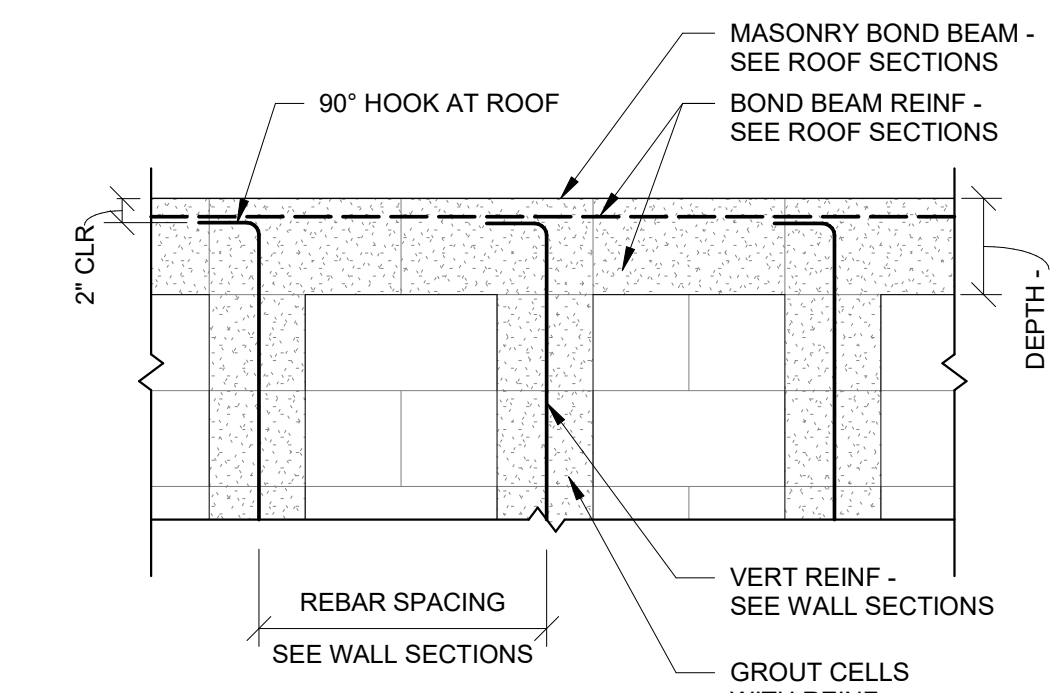
TYPICAL WALL



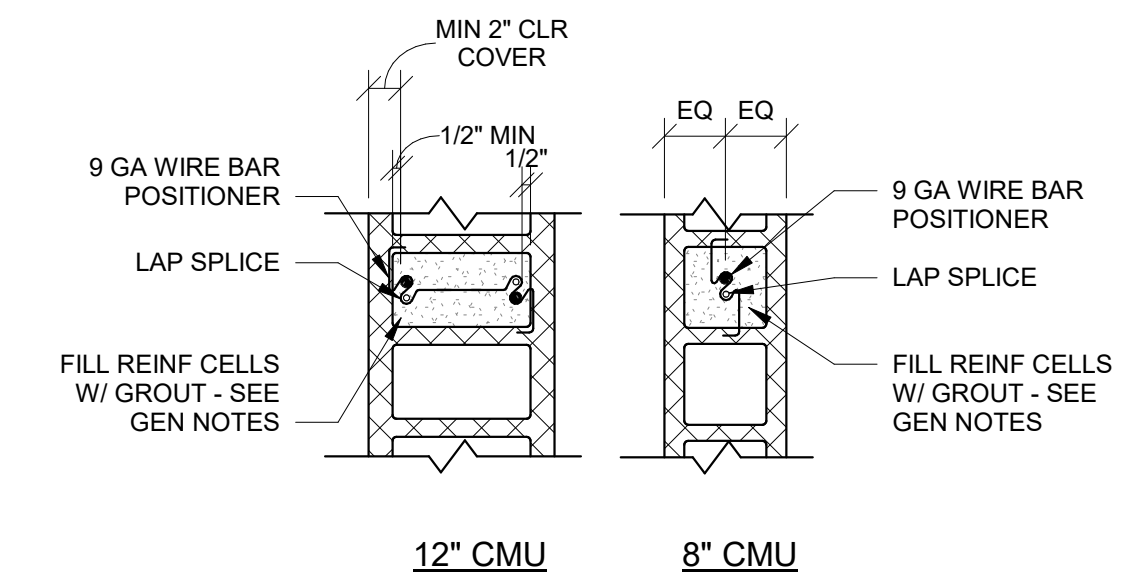
BOND BEAM

- CONTROL JOINT NOTES:
1. DO NOT PLACE CONTROL JOINTS WITHIN 5 FEET OF WALL CORNER.
2. DO NOT PLACE CONTROL JOINTS WITHIN DOORS, WINDOWS, OR THEIR JAMBS.
3. SPACE CONTROL JOINTS AT A MAXIMUM OF 25FT.
4. COORDINATE CONTROL JOINT LOCATIONS WITH ARCHITECTURAL VENEER JOINT LOCATIONS. CONTACT STRUCTURAL ENGINEER OF RECORD IF ARCHITECTURAL CONTROL JOINTS ARE WITHIN AREAS NOTED ABOVE.

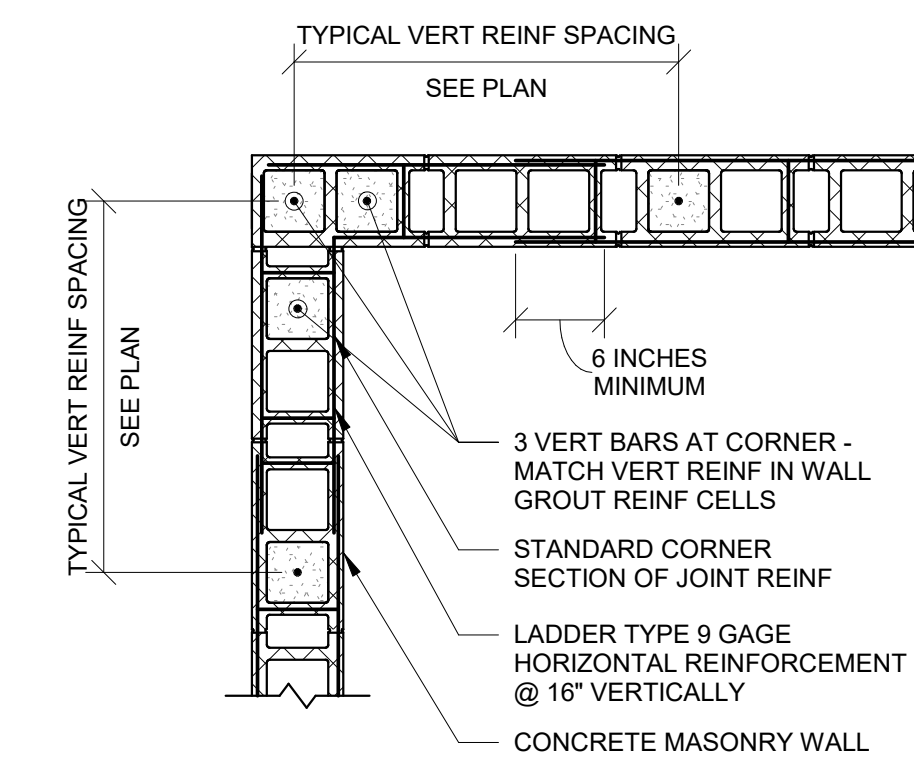
8 Masonry Wall Control Joint
1 1/2" = 1'-0"



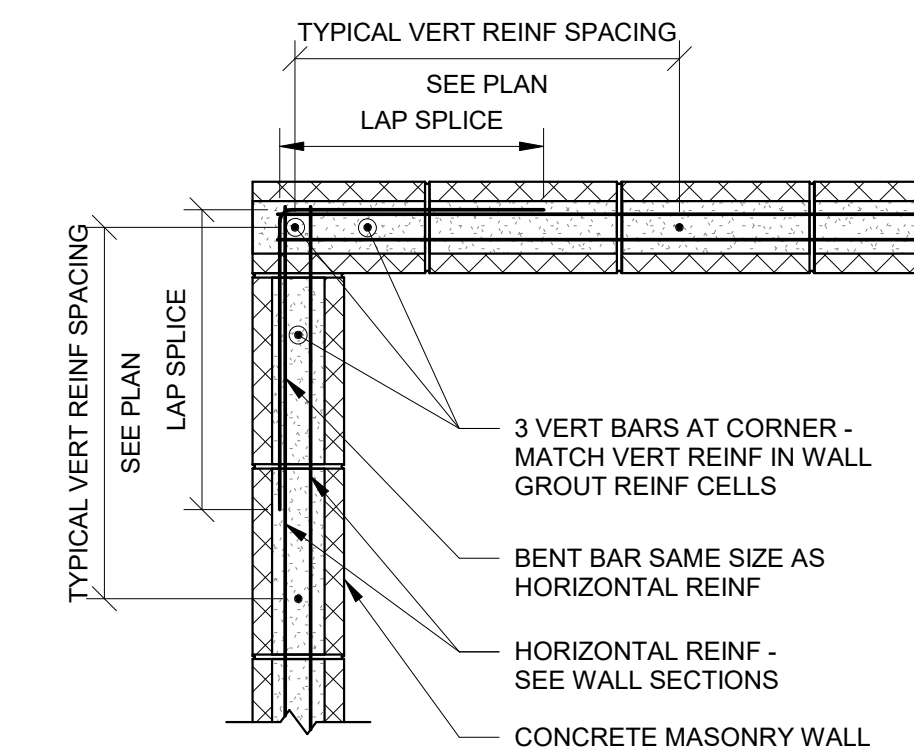
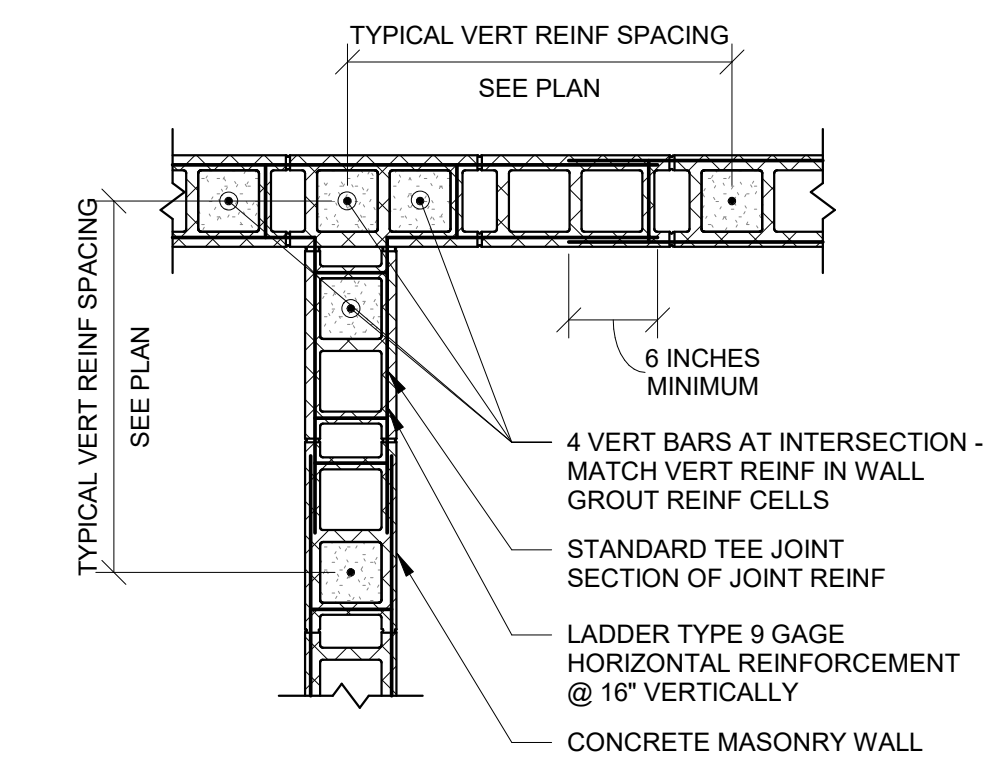
2 Top of Wall Reinforcement Detail
3/4" = 1'-0"



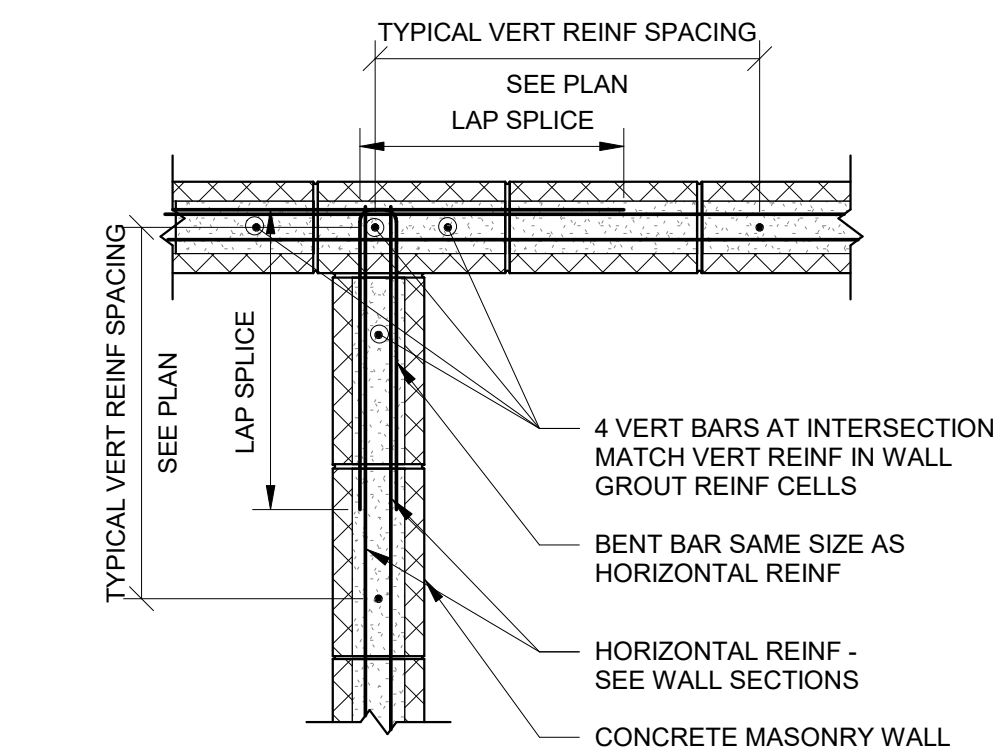
1 Vertical Wall Reinforcement Location Details
1" = 1'-0"



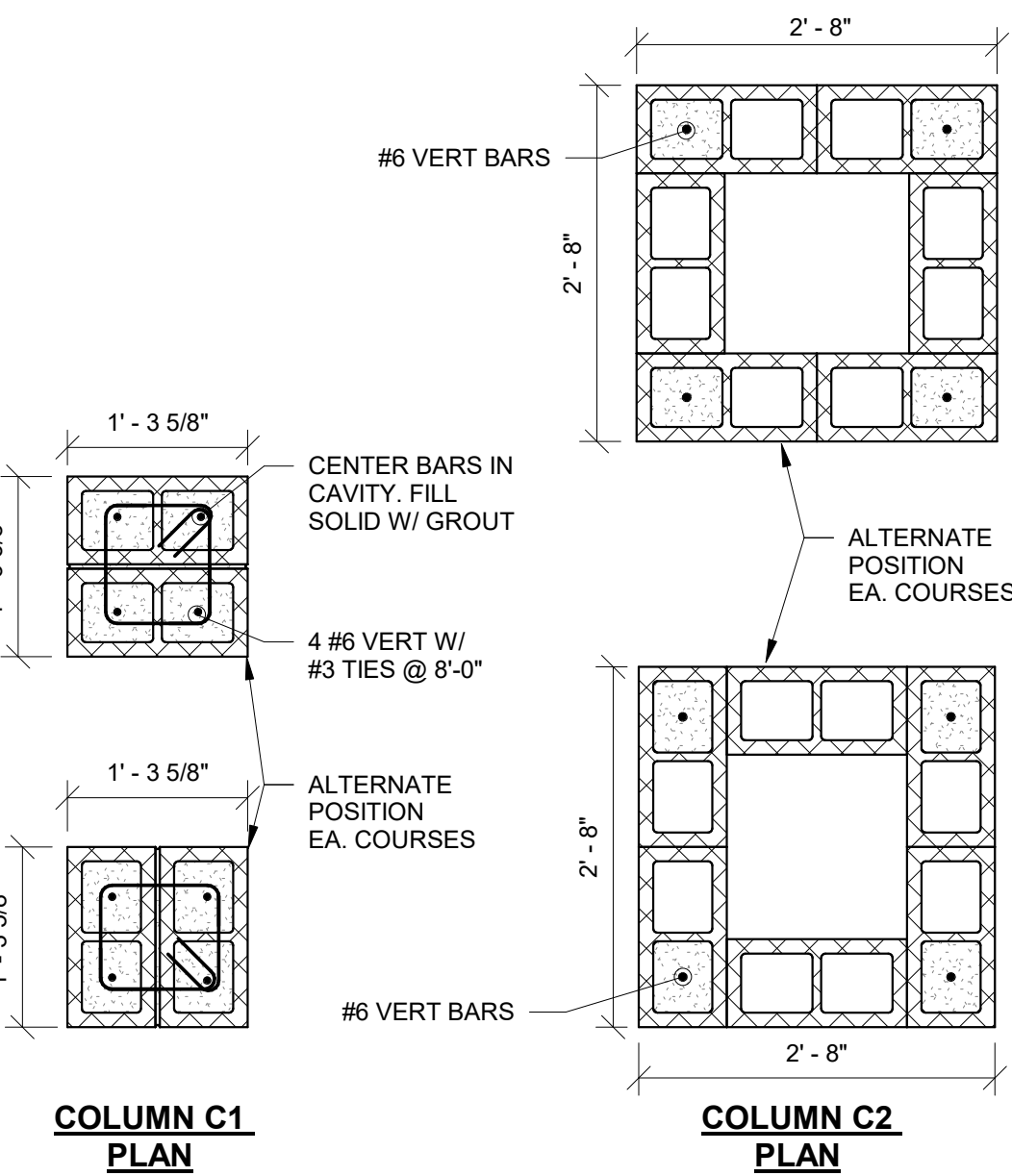
WALLS



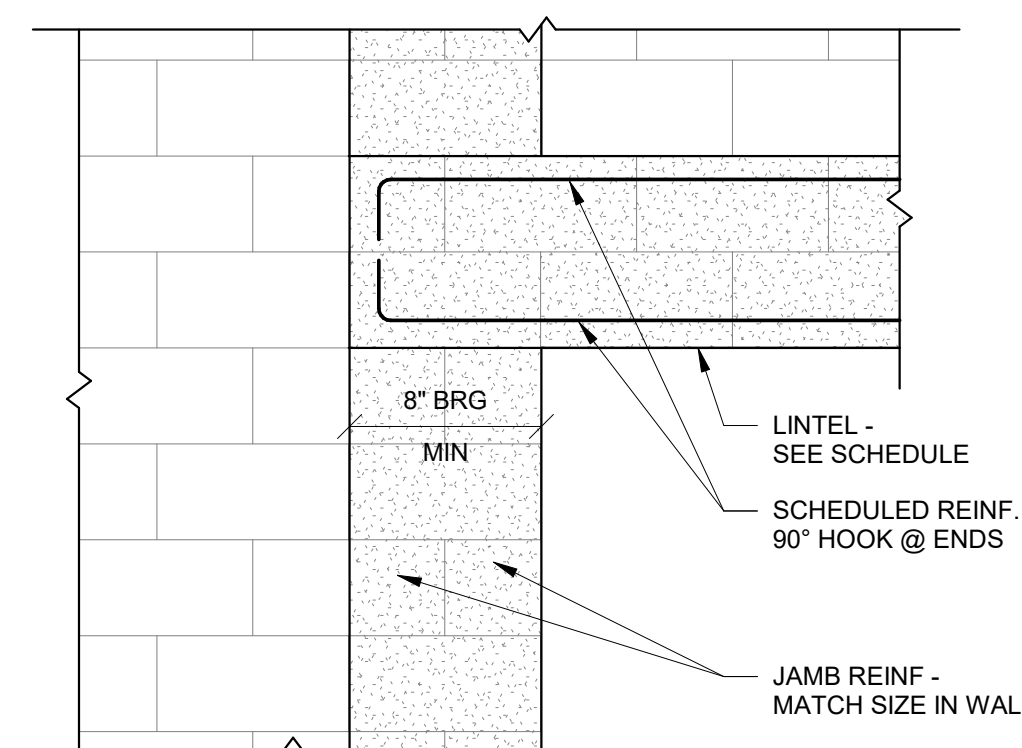
BOND BEAMS



12 Plan View of Joint Reinforcement in Masonry Wall Joints
3/4" = 1'-0"



10 Masonry Column Detail
3/4" = 1'-0"



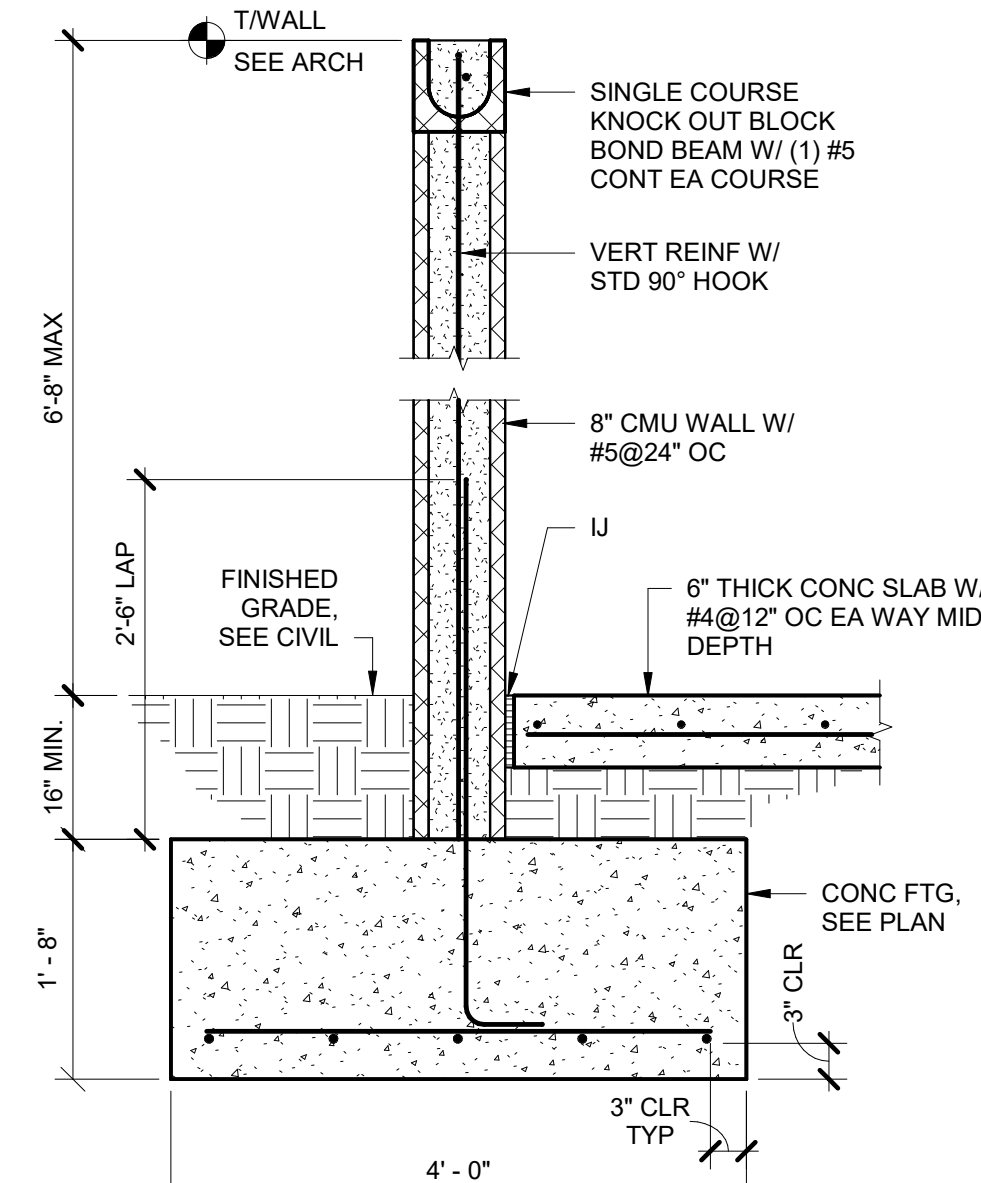
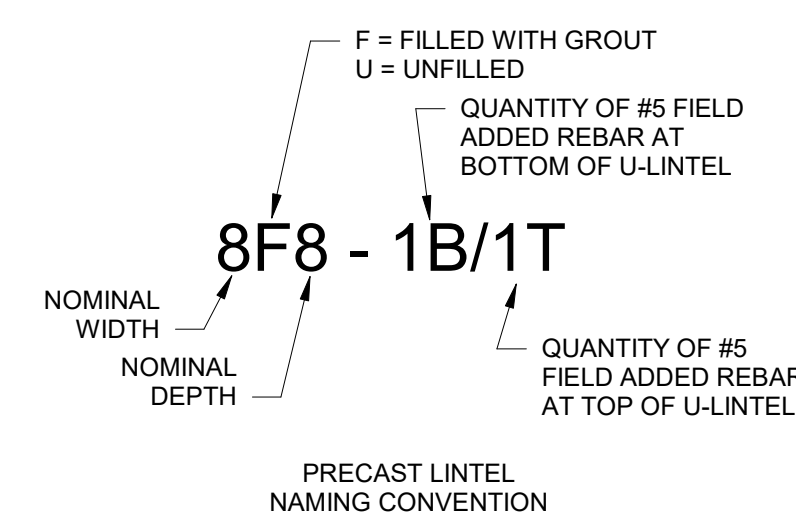
CMU BLOCK LINTEL

PRECAST LINTEL

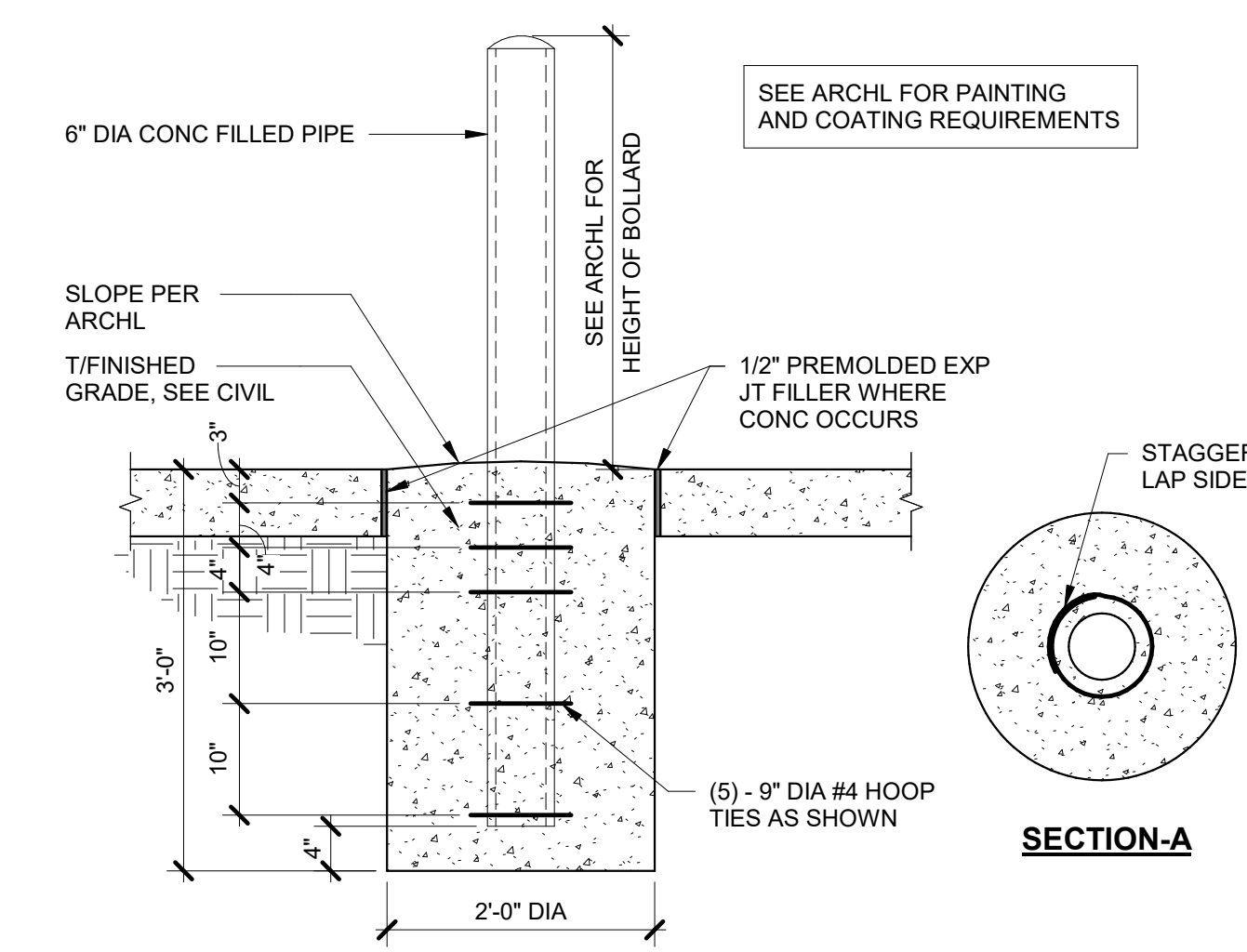
OPENING WIDTH	WALL THICKNESS	JAMB	PRECAST LINTEL	CMU LINTEL
UP TO 4'-0"	8"	1 Cell	8 F8-1B	8 F16-1B/1T
FROM 4'-1" TO 6'-0"	8"	2 Cells	8 F16-1B/1T	8 F24-1B/1T
FROM 6'-1" TO 8'-0"	8"	2 Cells	8 F20-1B/2T	8 F32-2B/2T
FROM 8'-1" TO 10'-0"	8"	2 Cells	8 F24-2B/2T	CIP BEAM OR STEEL ANGLE, SEE 15 / S-205
OVER 10'-0"	8"	3 Cells	CAST IN PLACE BEAM	

- NOTES:
1. LINTELS SHALL BE "CAST-CRETE" OR EQUIVALENT PRECAST CONCRETE UNO.
2. LINTELS SHALL BEAR 8" MIN ON CMU/CONC AND 3" MIN ON STEEL ANGLES.
3. CMU LINTELS MUST BE SHORED UNTIL CONCRETE GROUT GAINS APPROPRIATE STRENGTH, 14 DAYS OR AS DETERMINED BY CONCRETE TESTING.

19 Masonry Lintel Detail
3/4" = 1'-0"



20 Dumpster Enclosure Wall Section
S-101 | 3/4" = 1'-0"



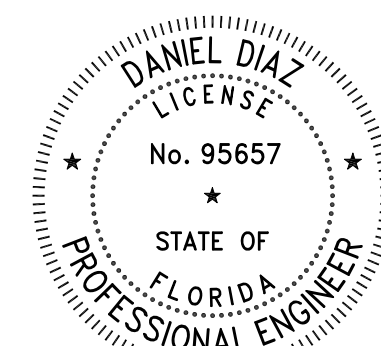
16 TYPICAL PIPE BOLLARD DETAIL
3/4" = 1'-0"

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2	ADDENDUM #2	2024-08-05

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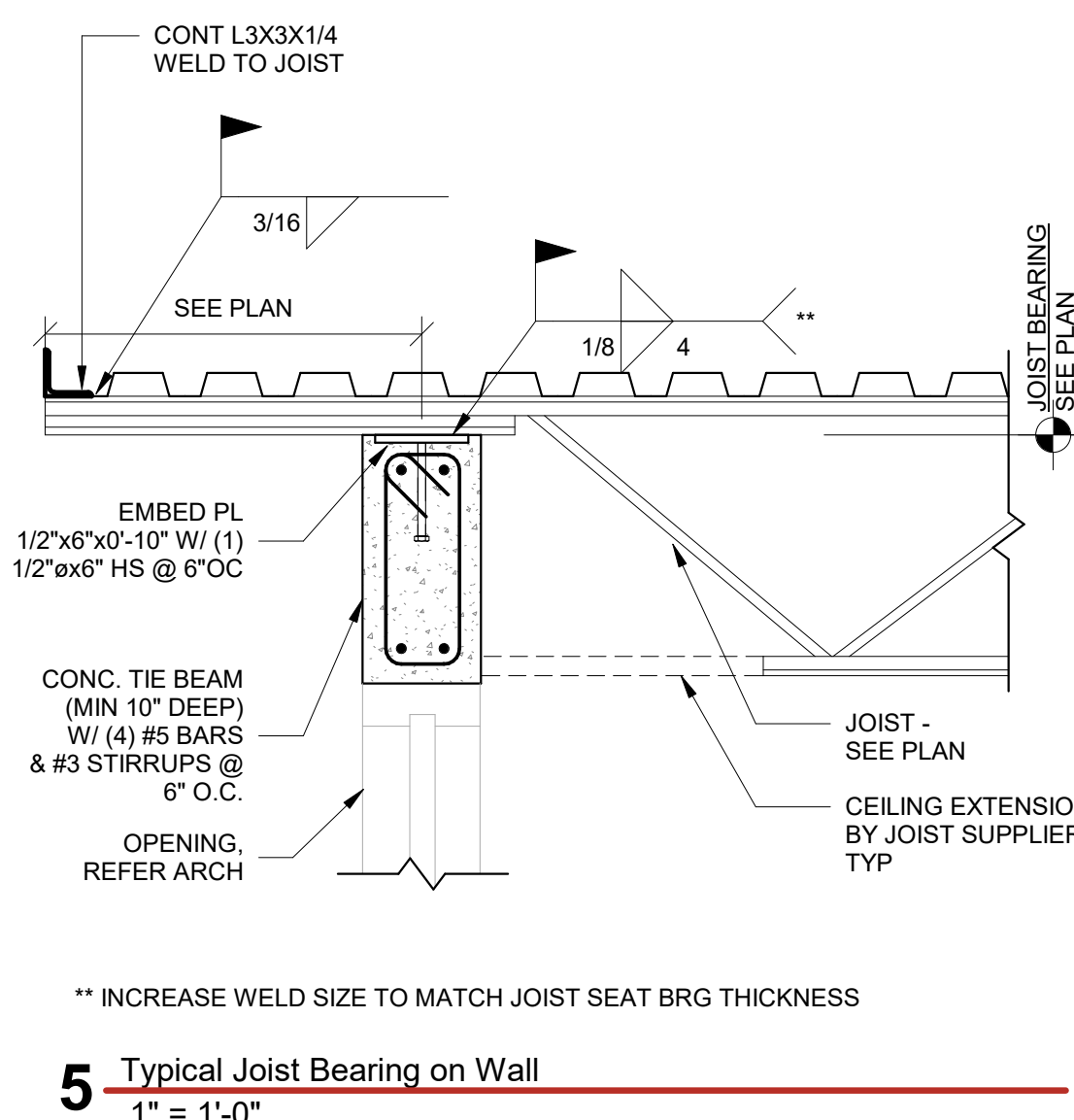


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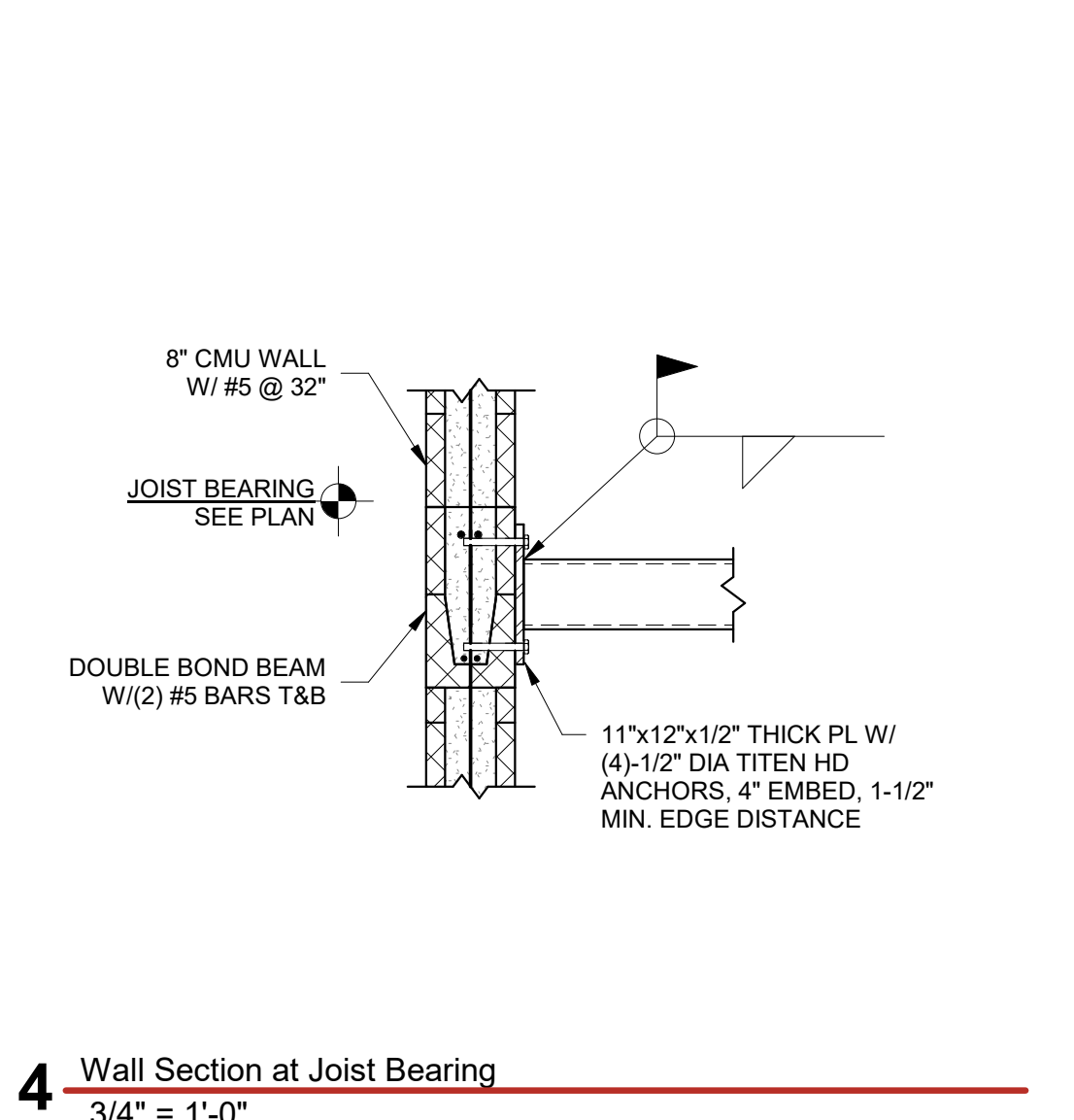
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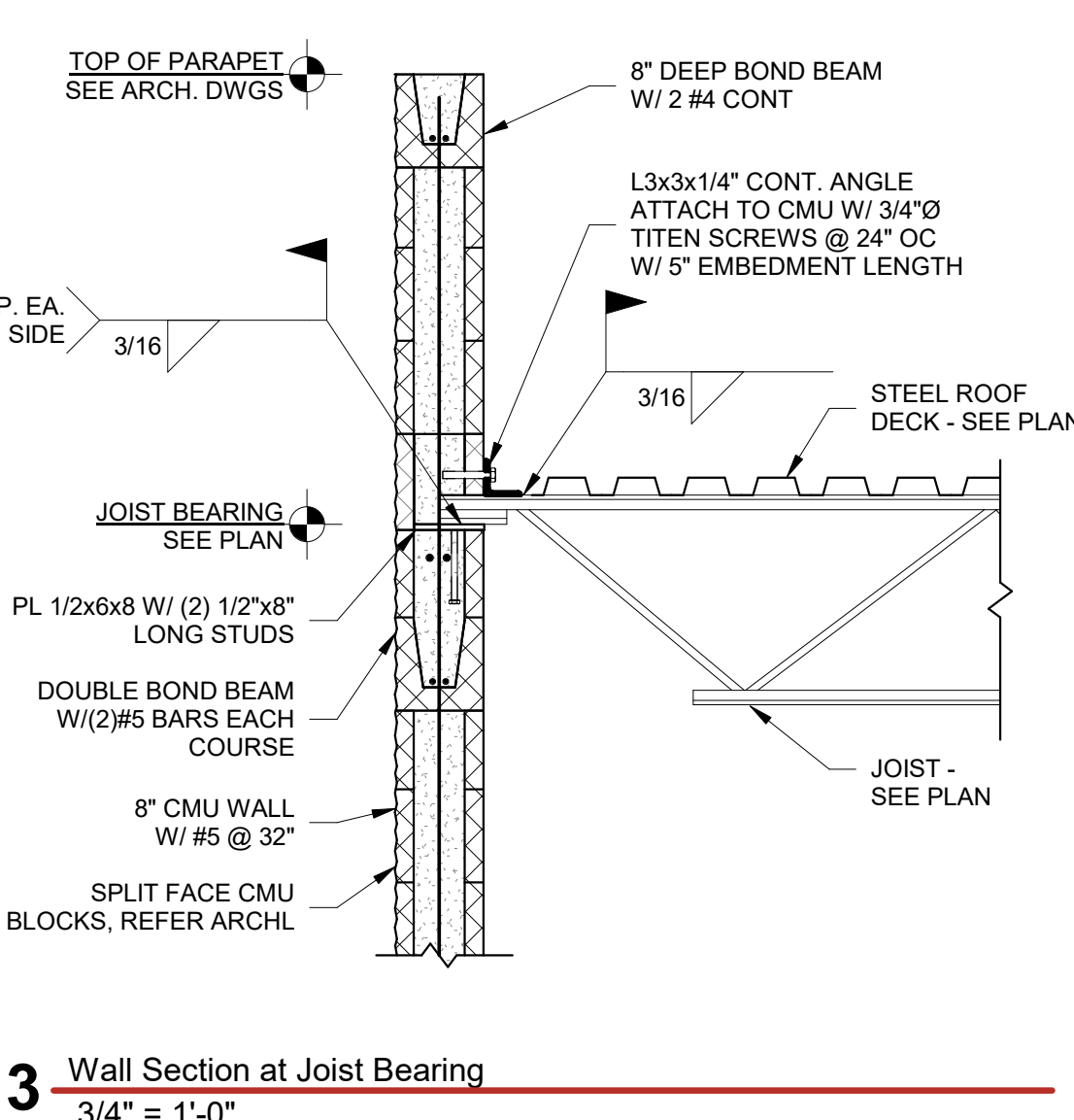
TYPICAL ROOF SECTIONS AND DETAILS



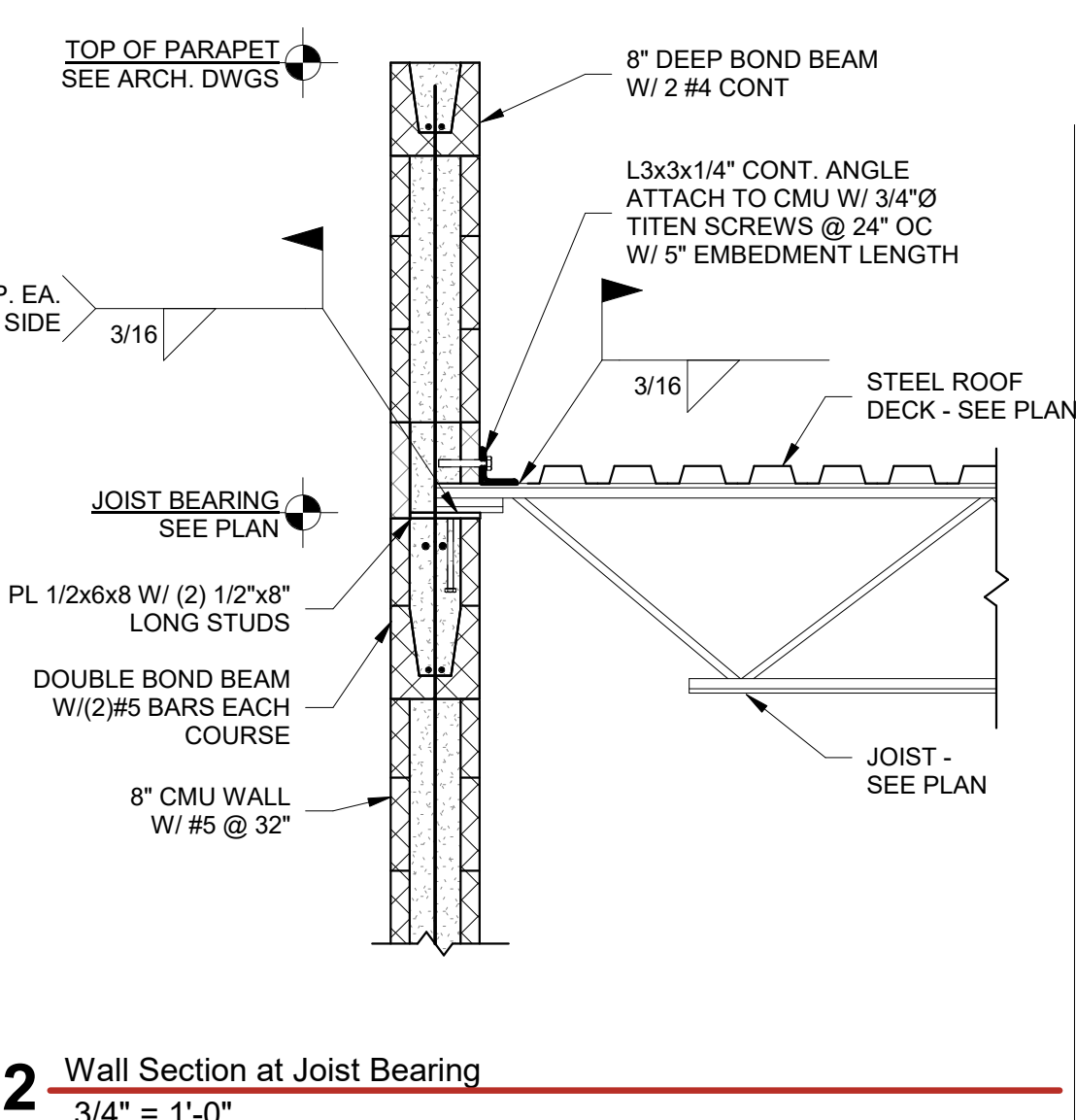
5 Typical Joist Bearing on Wall
1" = 1'-0"



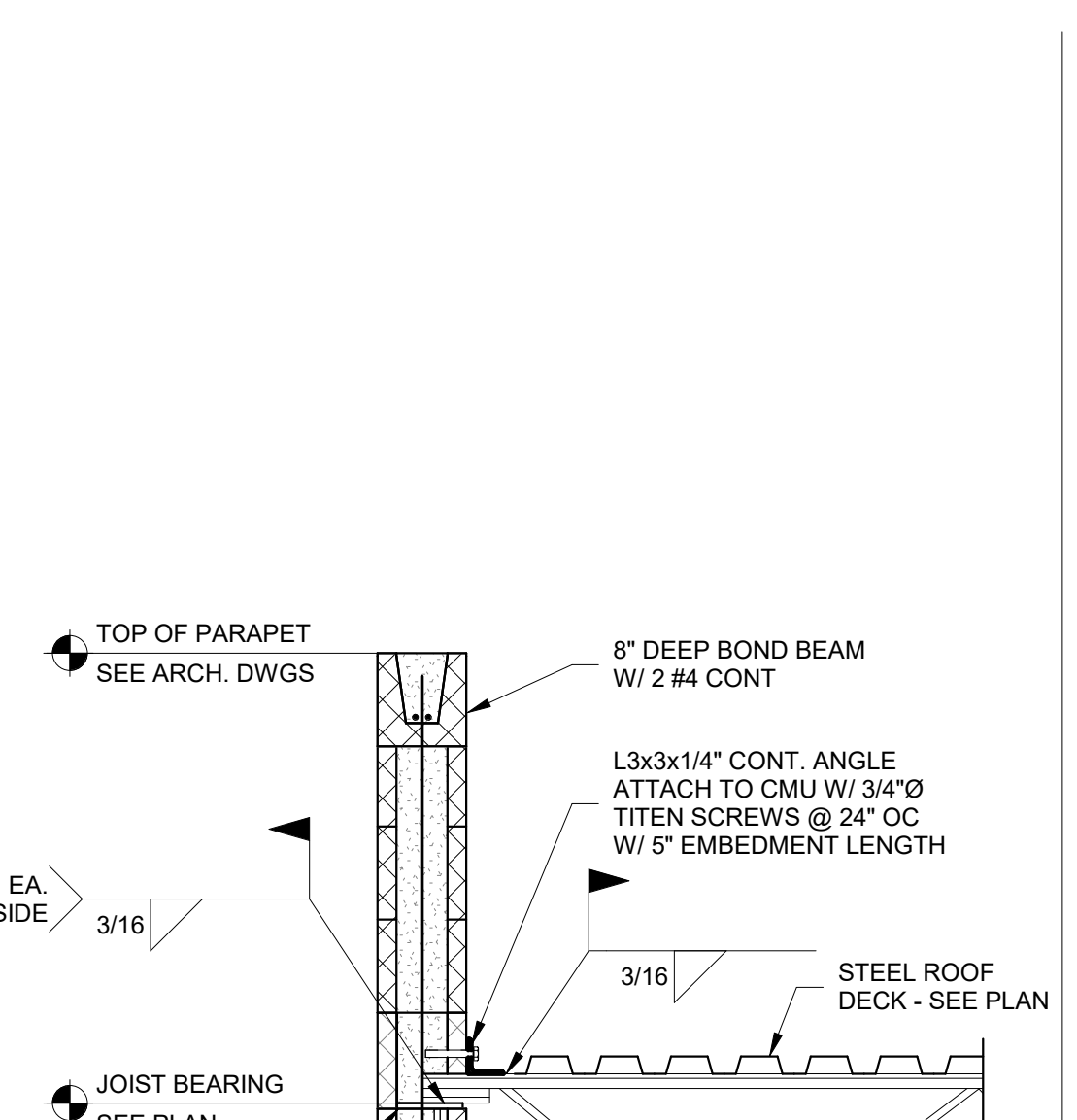
4 Wall Section at Joist Bearing
3/4" = 1'-0"



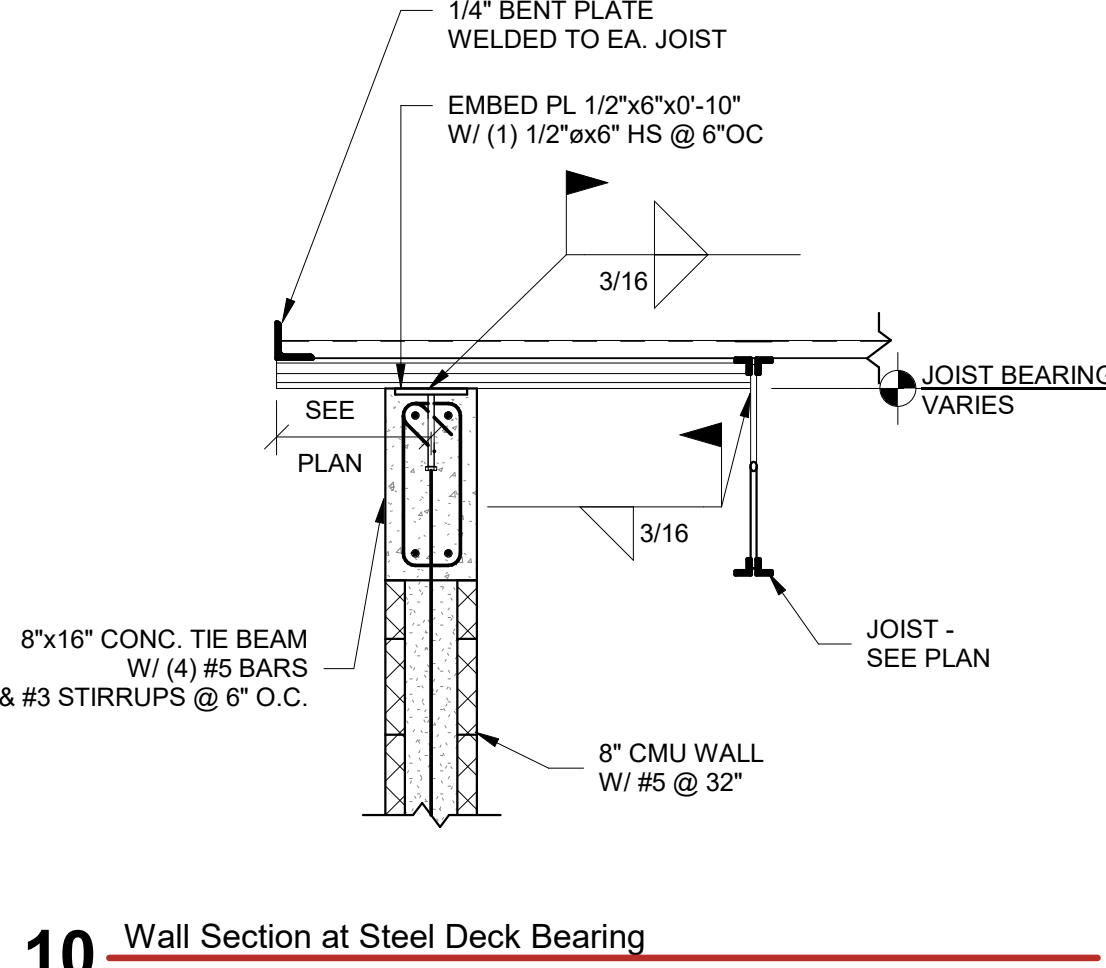
3 Wall Section at Joist Bearing
3/4" = 1'-0"



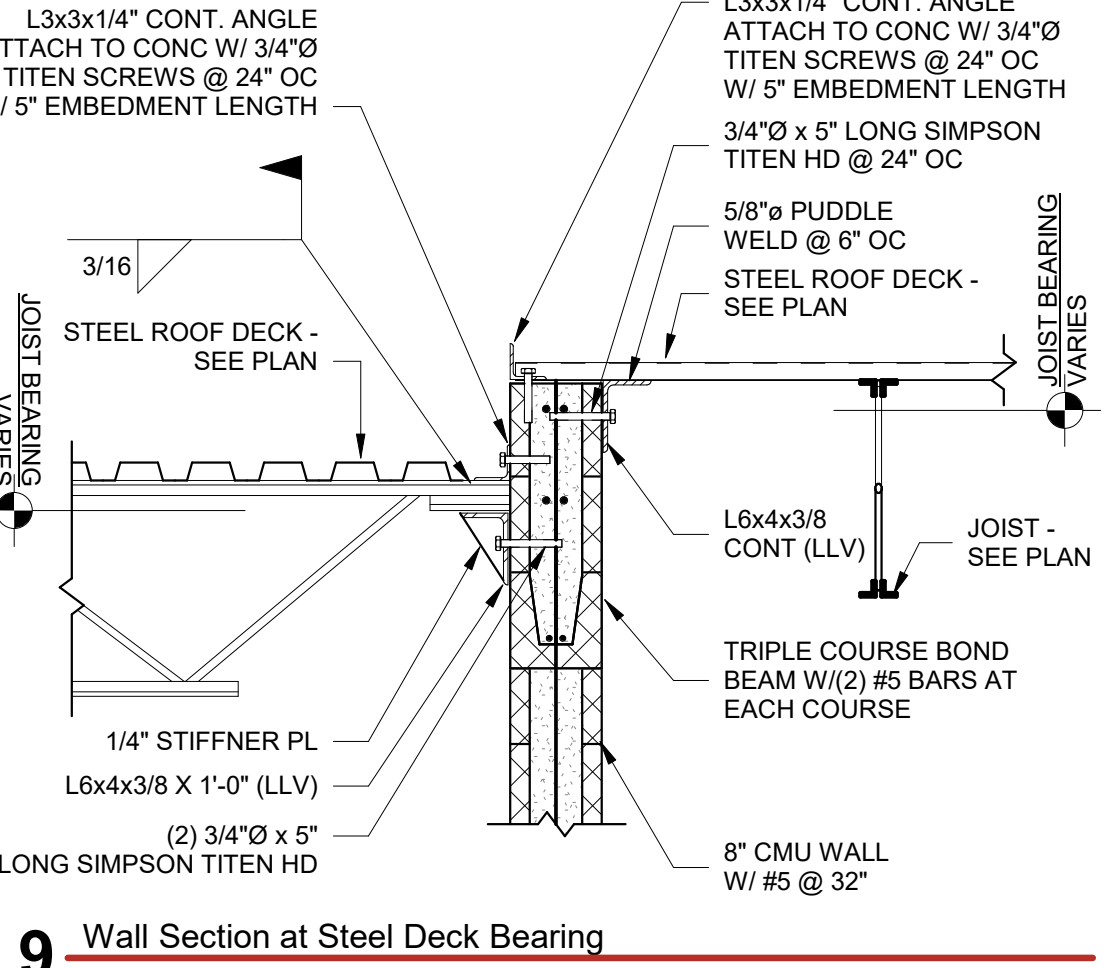
2 Wall Section at Joist Bearing
3/4" = 1'-0"



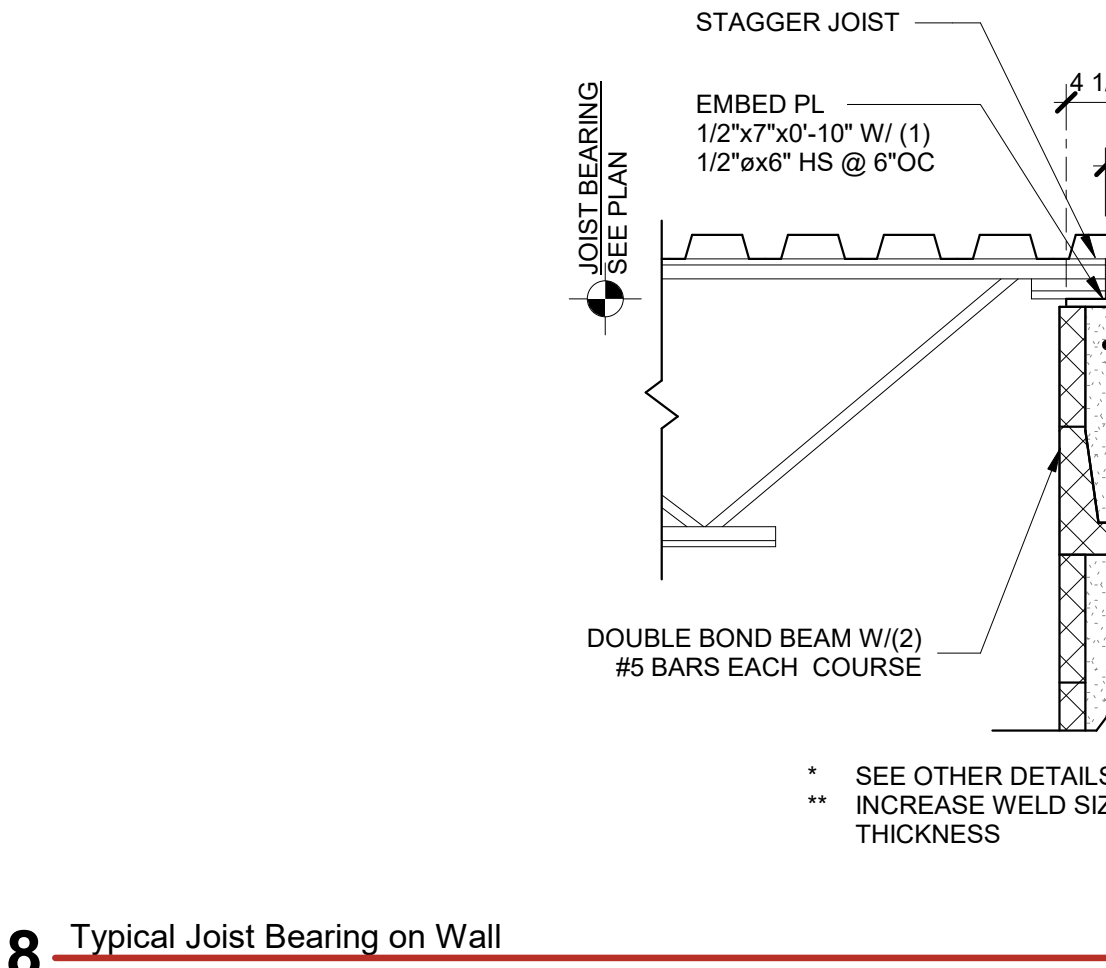
6 Wall Section at Joist Bearing
3/4" = 1'-0"



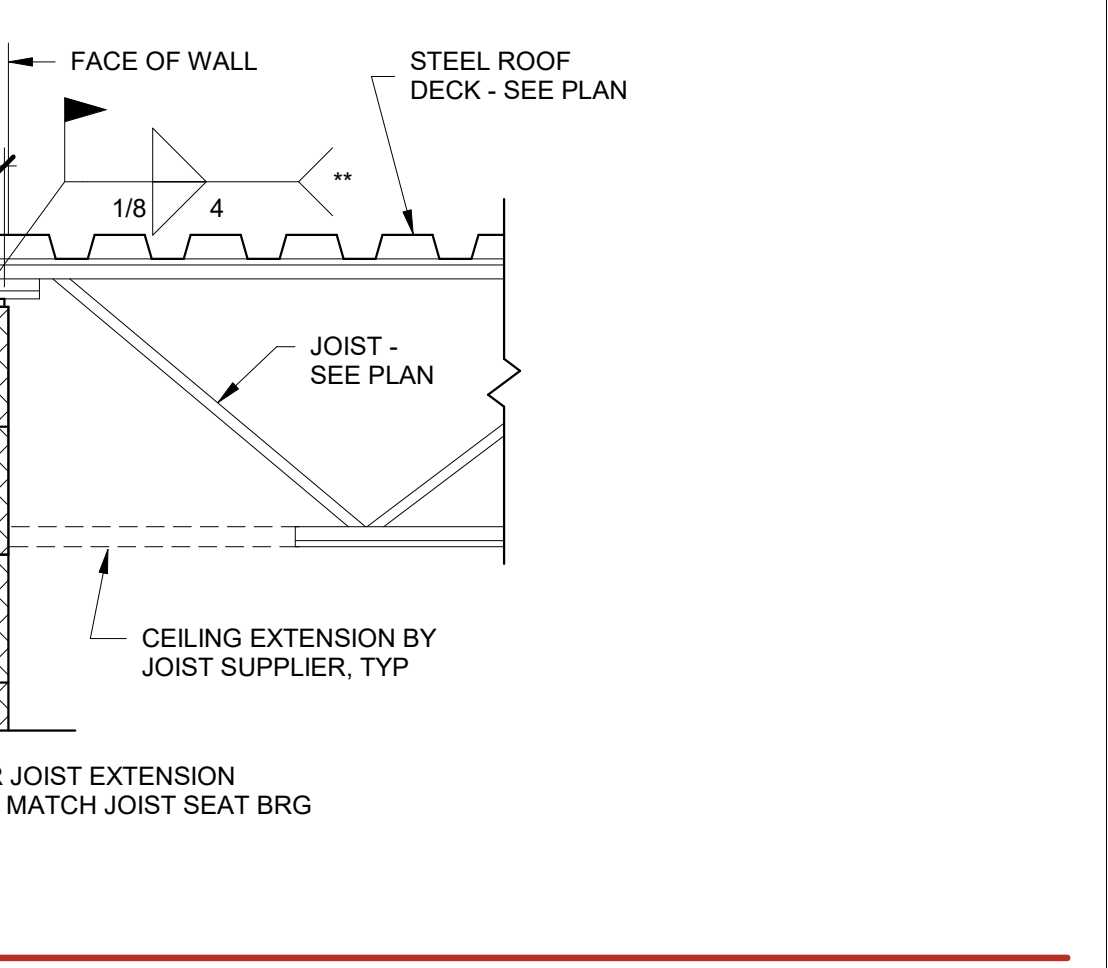
10 Wall Section at Steel Deck Bearing
3/4" = 1'-0"



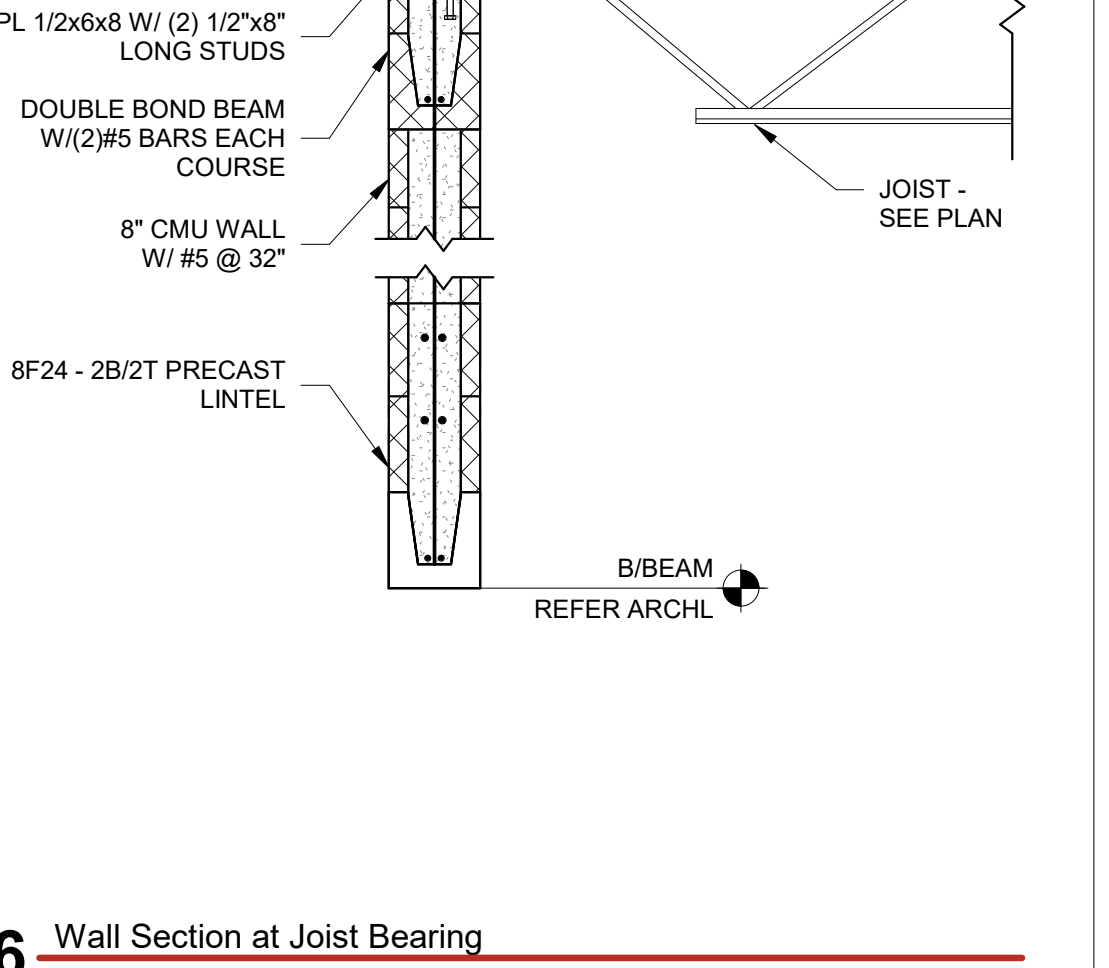
9 Wall Section at Steel Deck Bearing
3/4" = 1'-0"



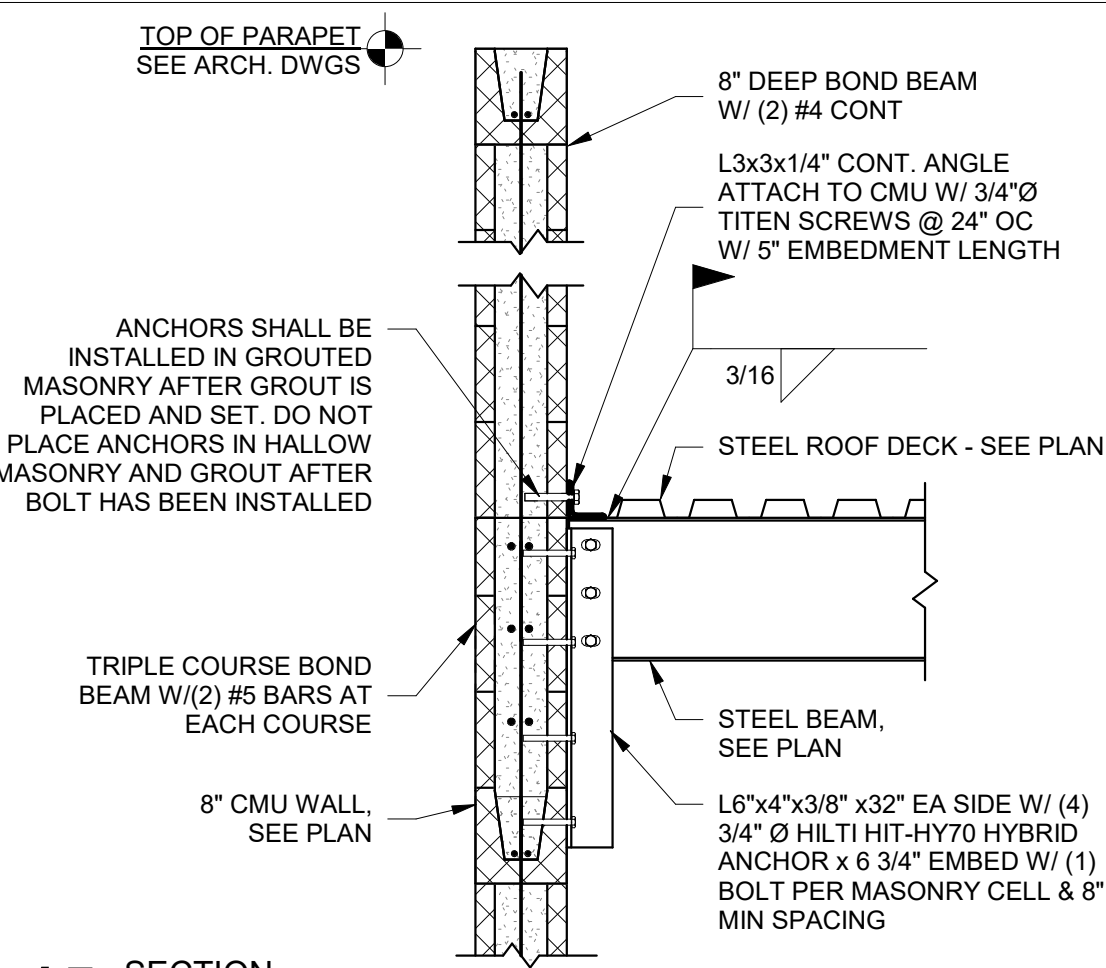
8 Typical Joist Bearing on Wall
1" = 1'-0"



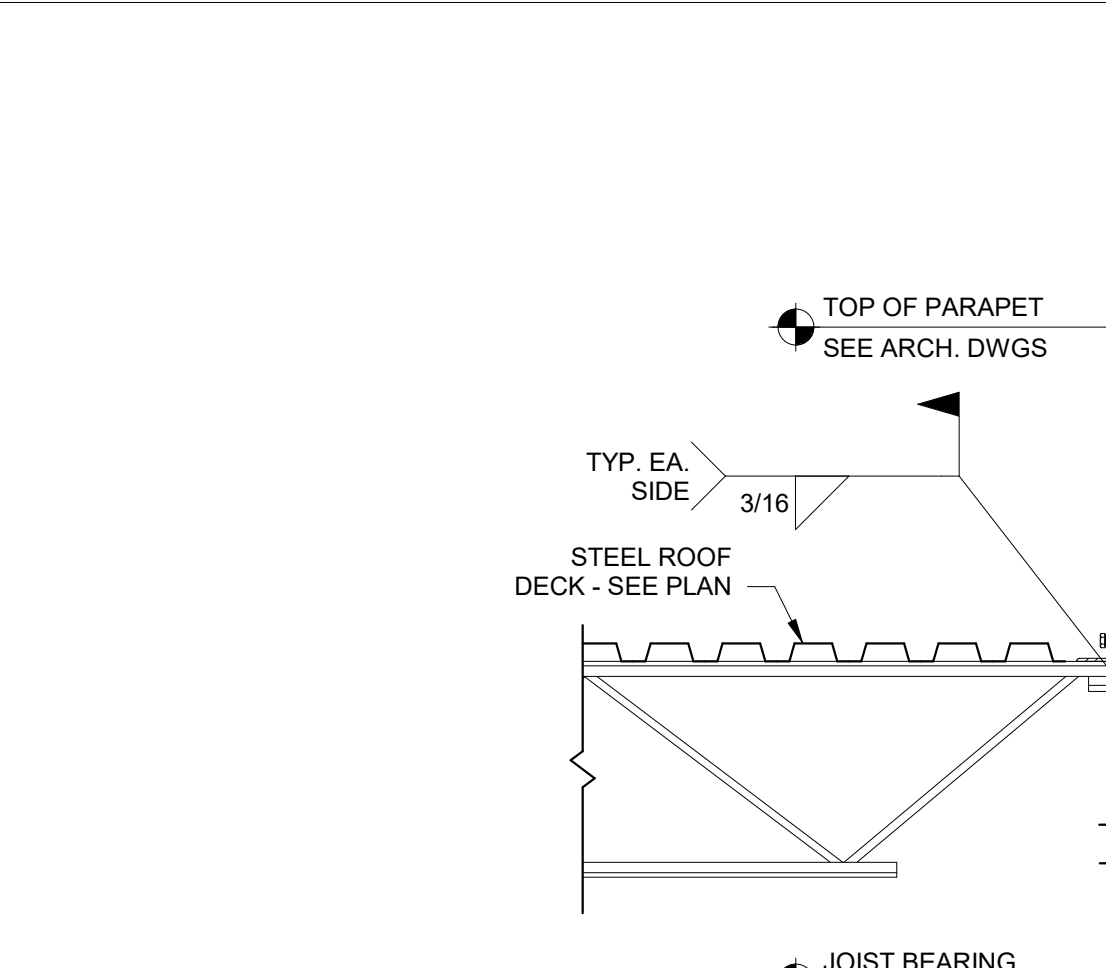
7 Wall Section at Joist Bearing
3/4" = 1'-0"



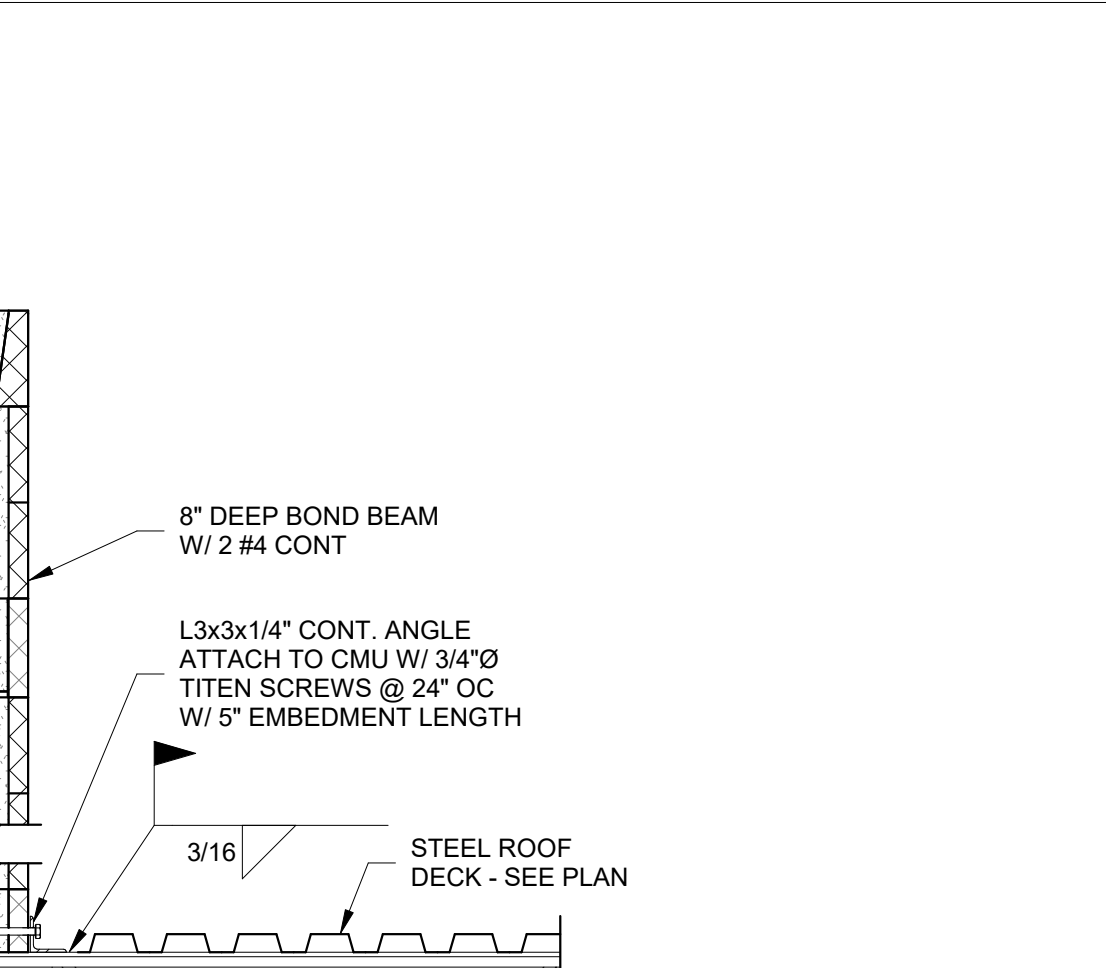
6 Wall Section at Joist Bearing
3/4" = 1'-0"



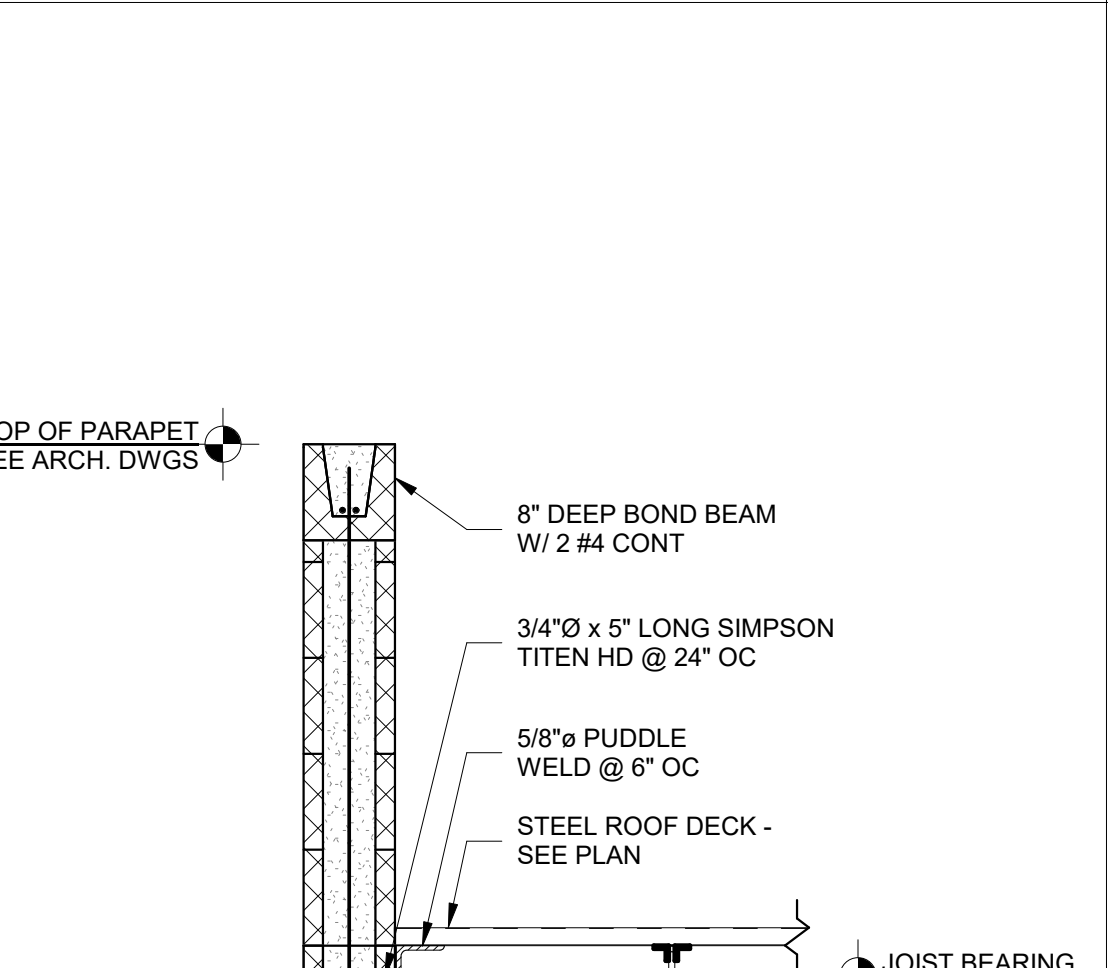
15 SECTION
3/4" = 1'-0"



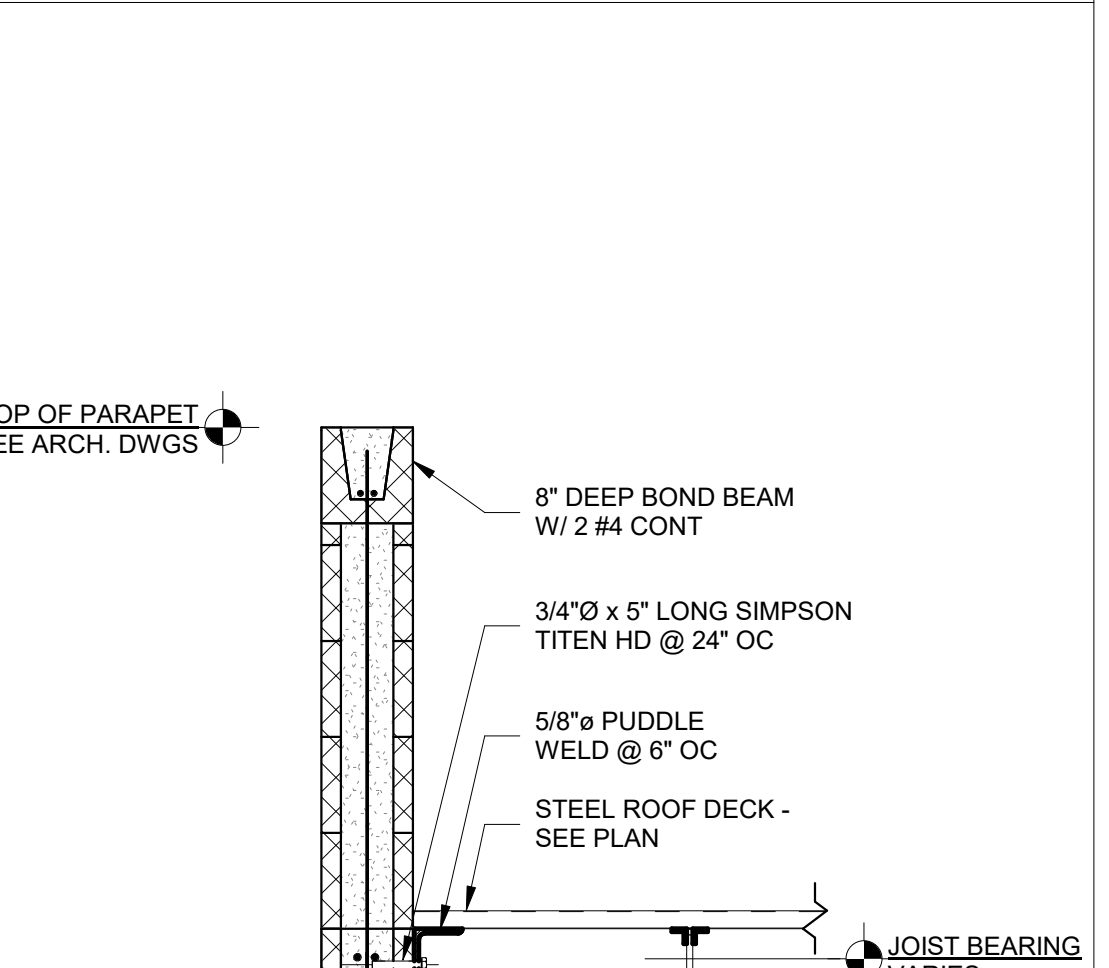
19 Wall Section at Joist Bearing
3/4" = 1'-0"



17 Wall Section at Steel Deck Bearing
3/4" = 1'-0"



17 Wall Section at Steel Deck Bearing
3/4" = 1'-0"



16 Wall Section at Steel Deck Bearing
3/4" = 1'-0"

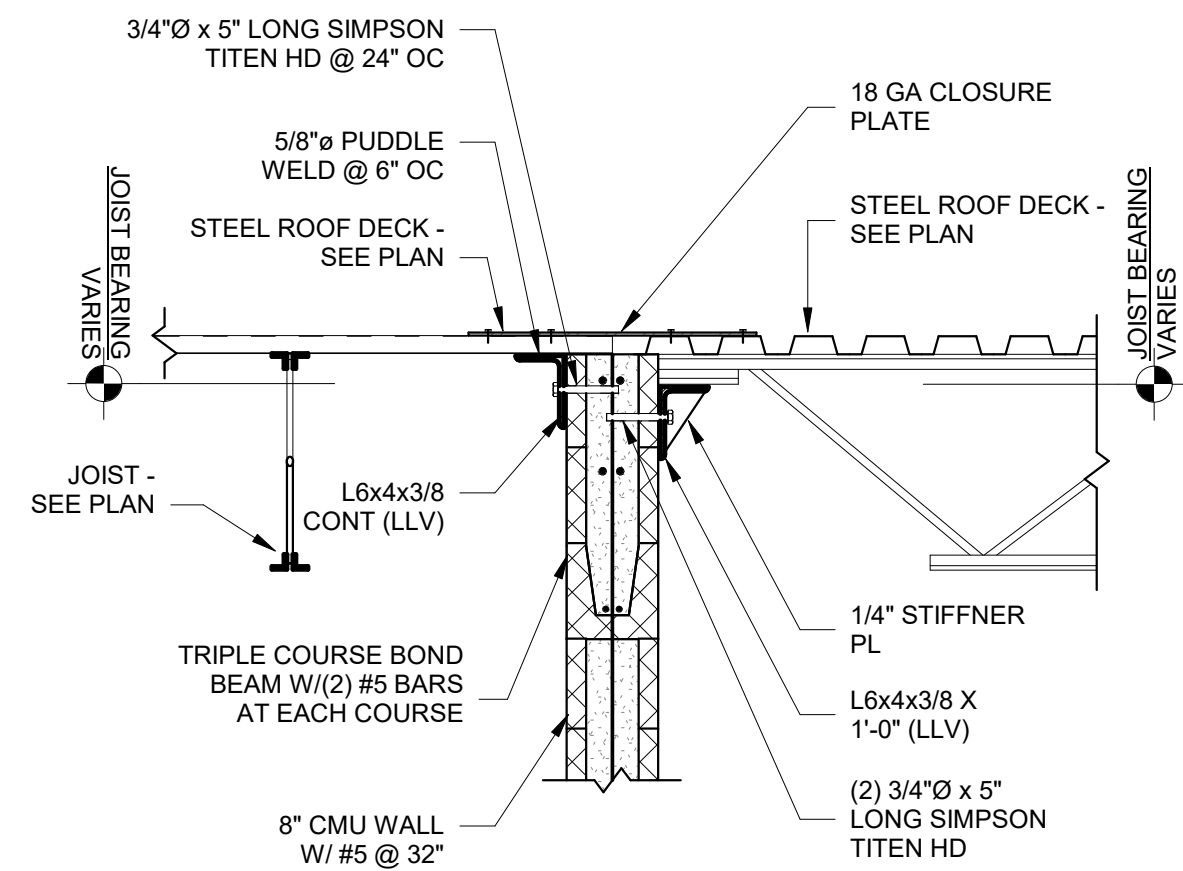
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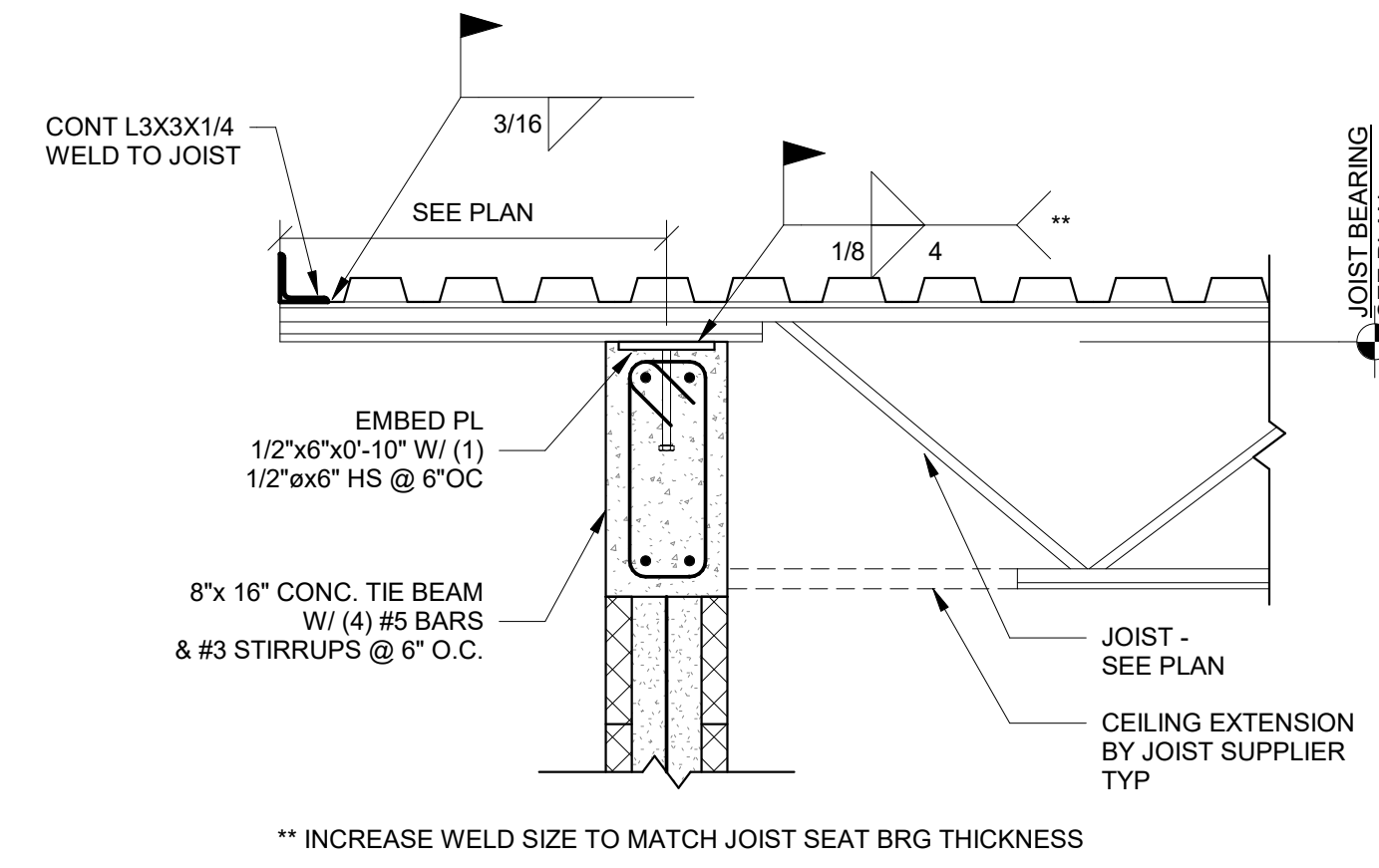
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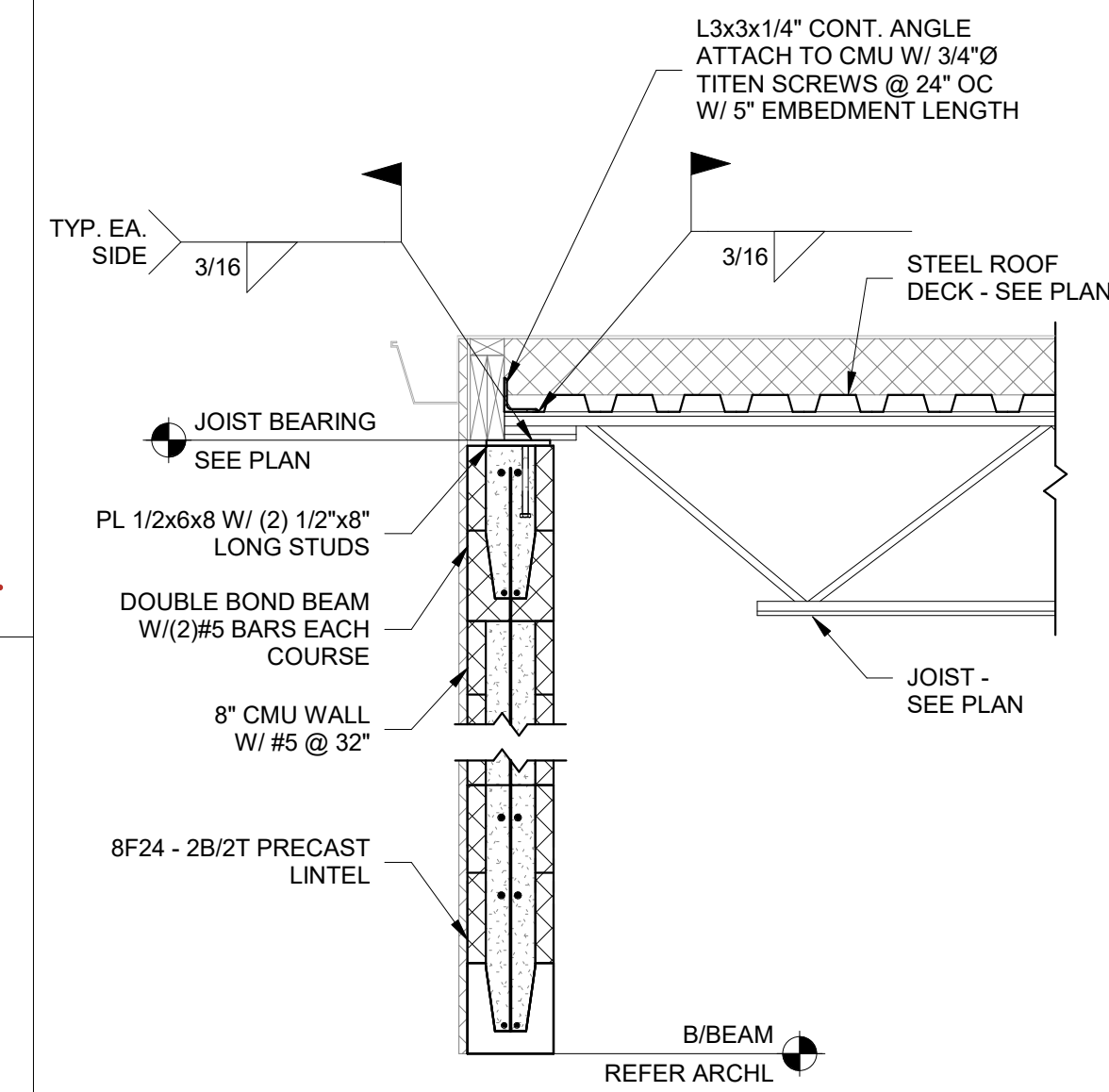
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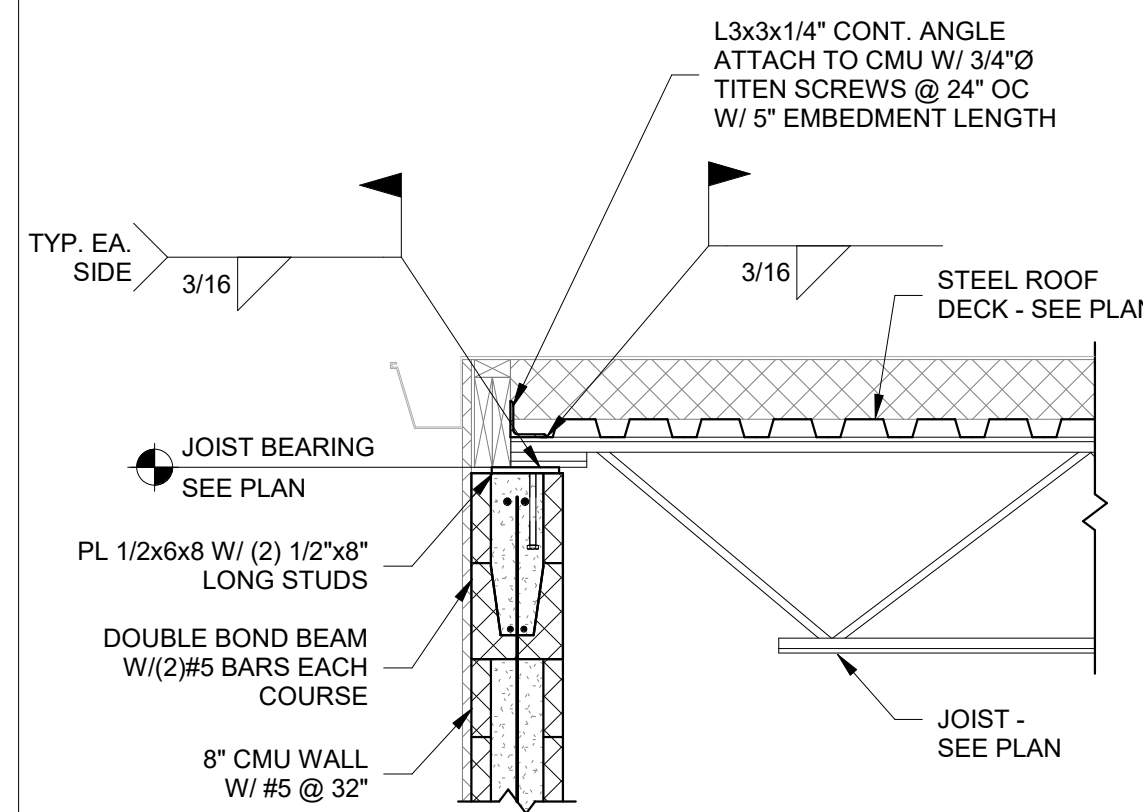
5 Wall Section at Steel Deck Bearing
3/4" = 1'-0"



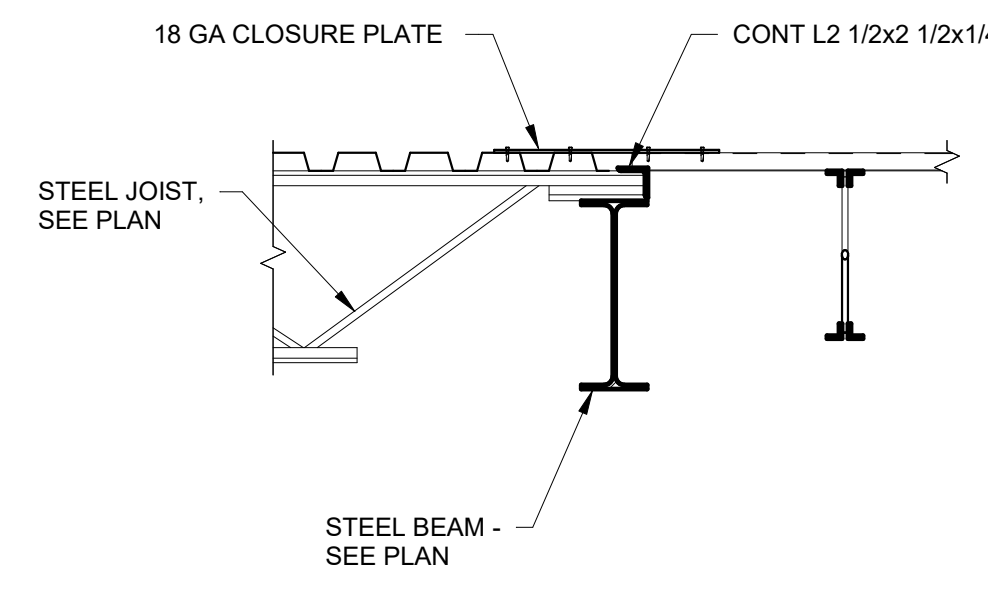
3 Typical Joist Bearing on Wall
1" = 1'-0"



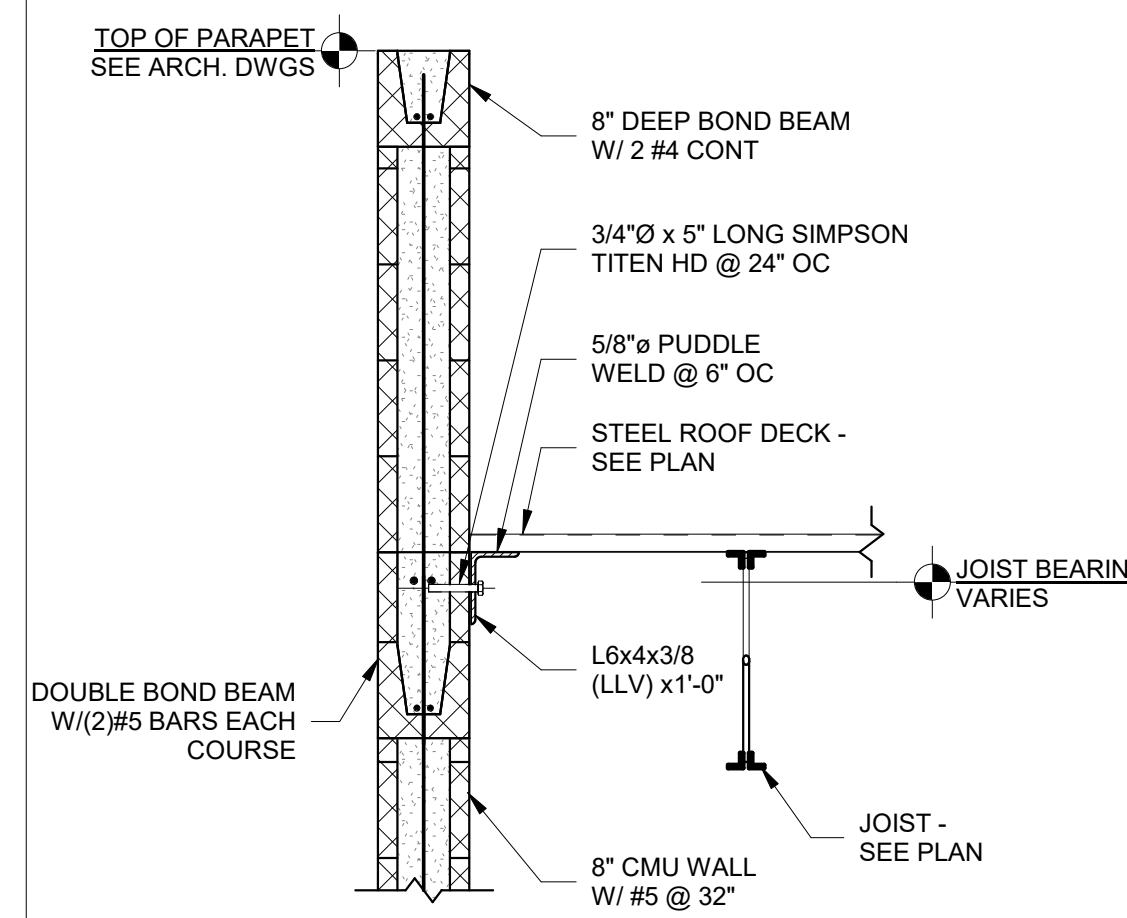
6 Wall Section at Joist Bearing
3/4" = 1'-0"



9 Wall Section at Joist Bearing
3/4" = 1'-0"



8 Roof Joist Bearing on Beam
3/4" = 1'-0"



7 Wall Section at Steel Deck Bearing
3/4" = 1'-0"

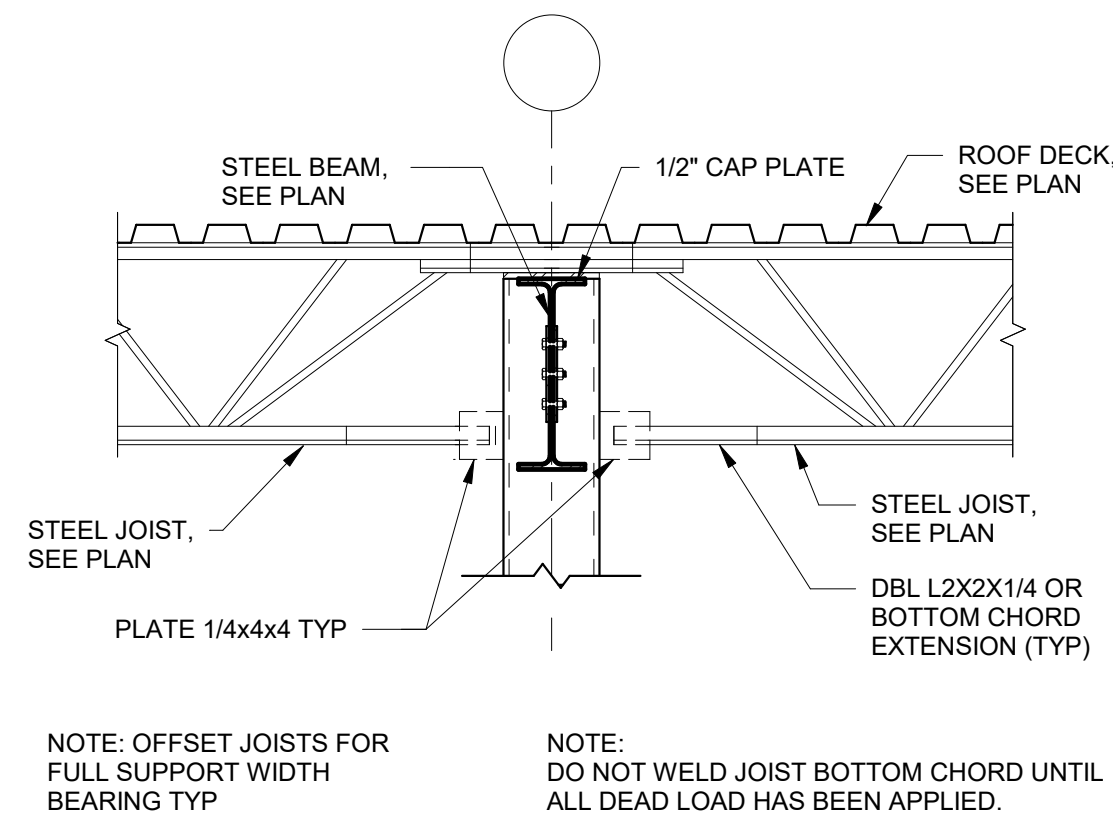
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1	PERMIT SET	2024-06-11
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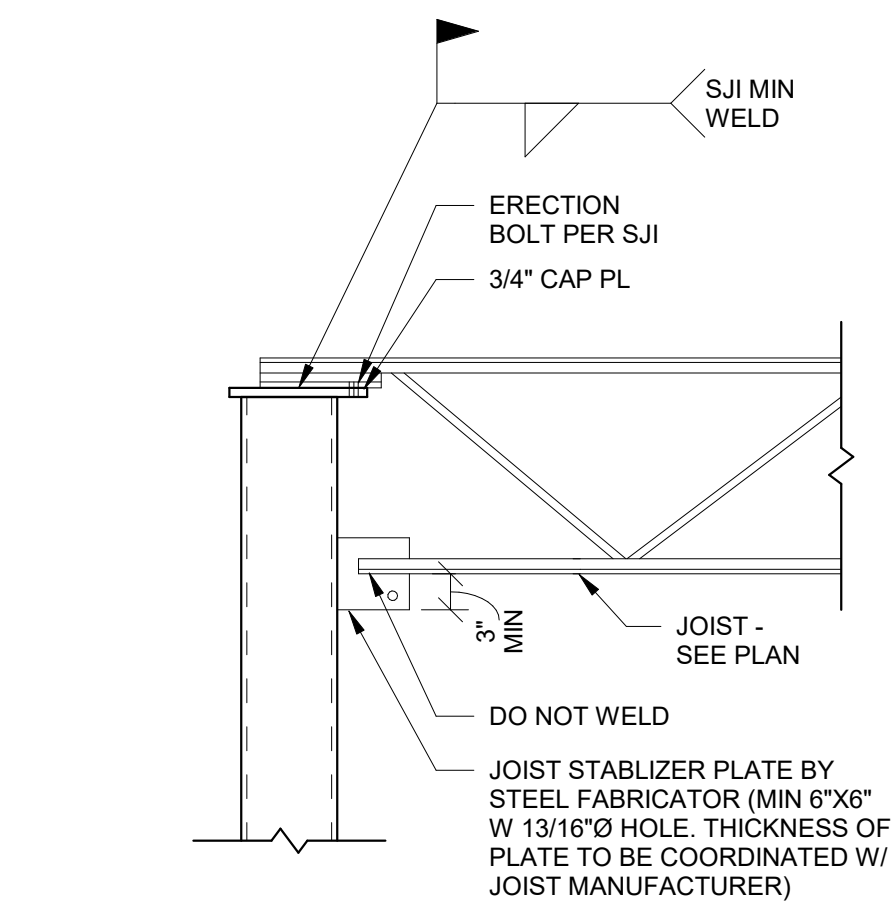
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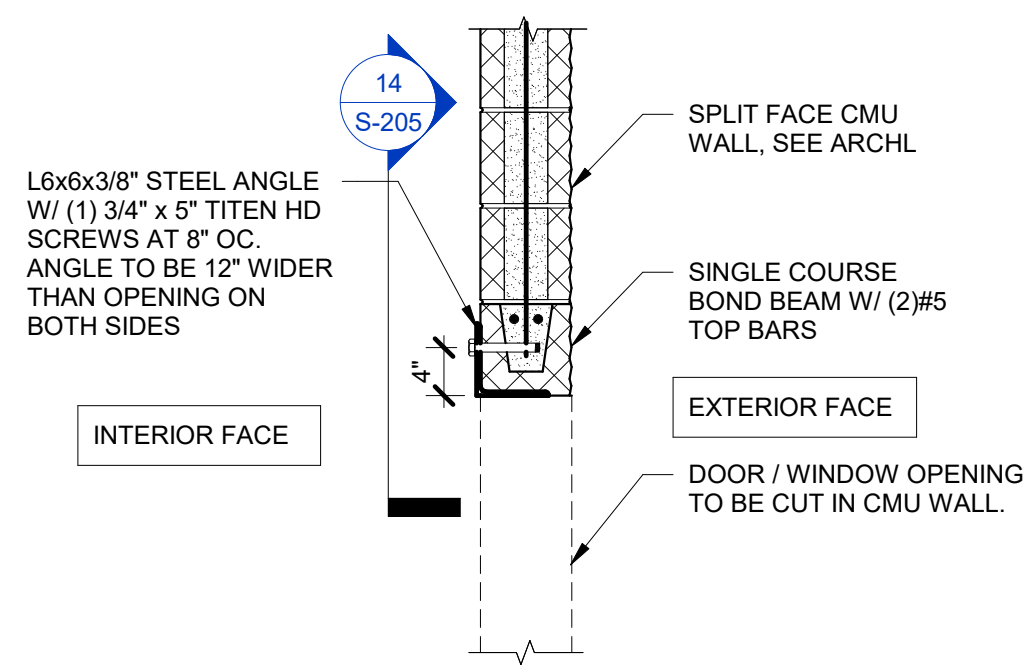
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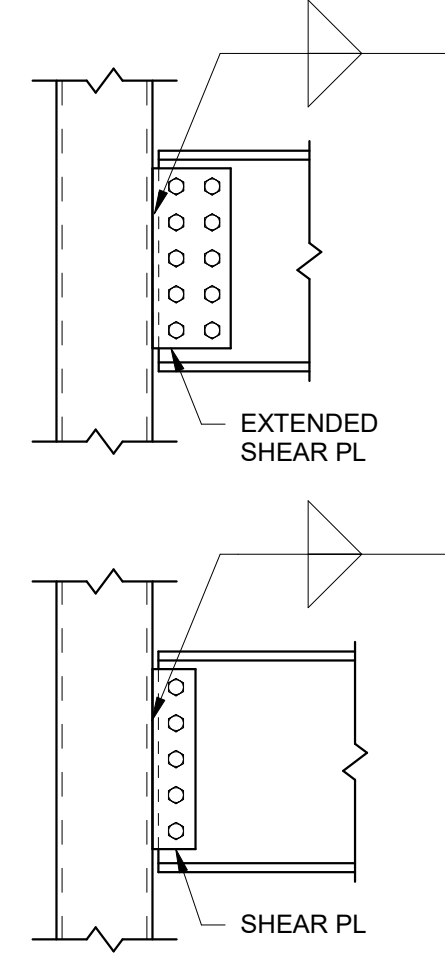
5 ROOF JOIST BEARING SECTION
3/4" = 1'-0"



10 Joist Bearing at Top of Column
3/4" = 1'-0"

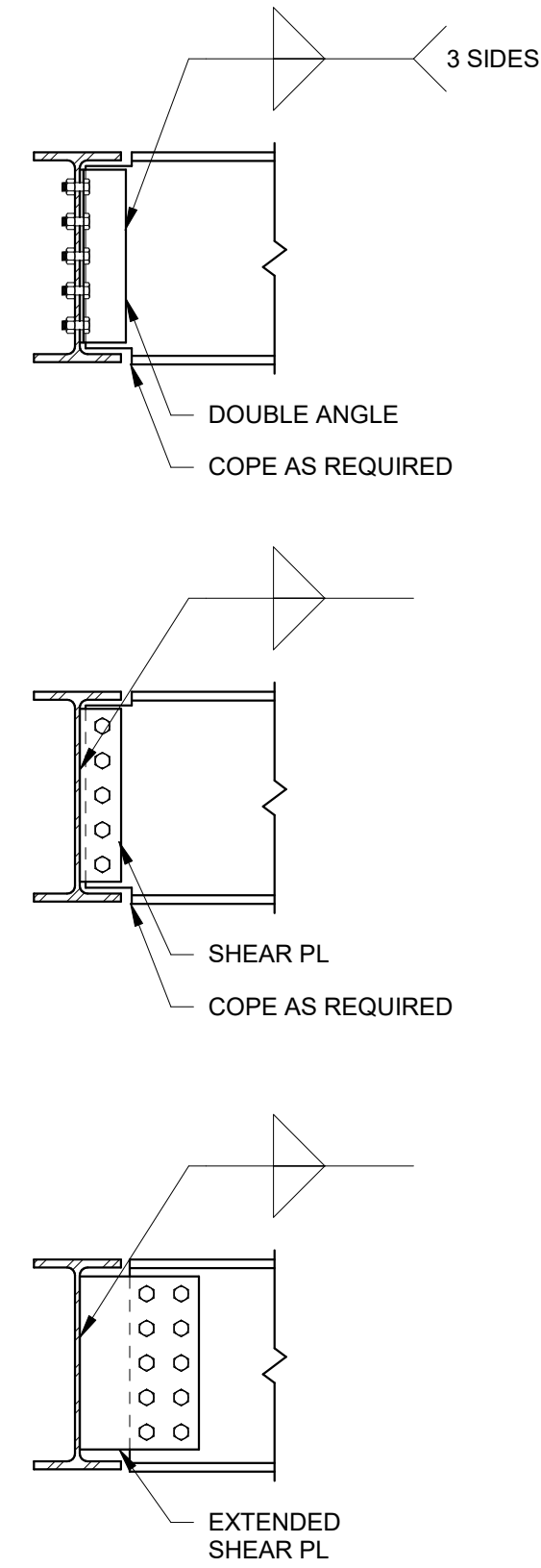


15 SECTION AT STEEL ANGLE LINTEL
3/4" = 1'-0"



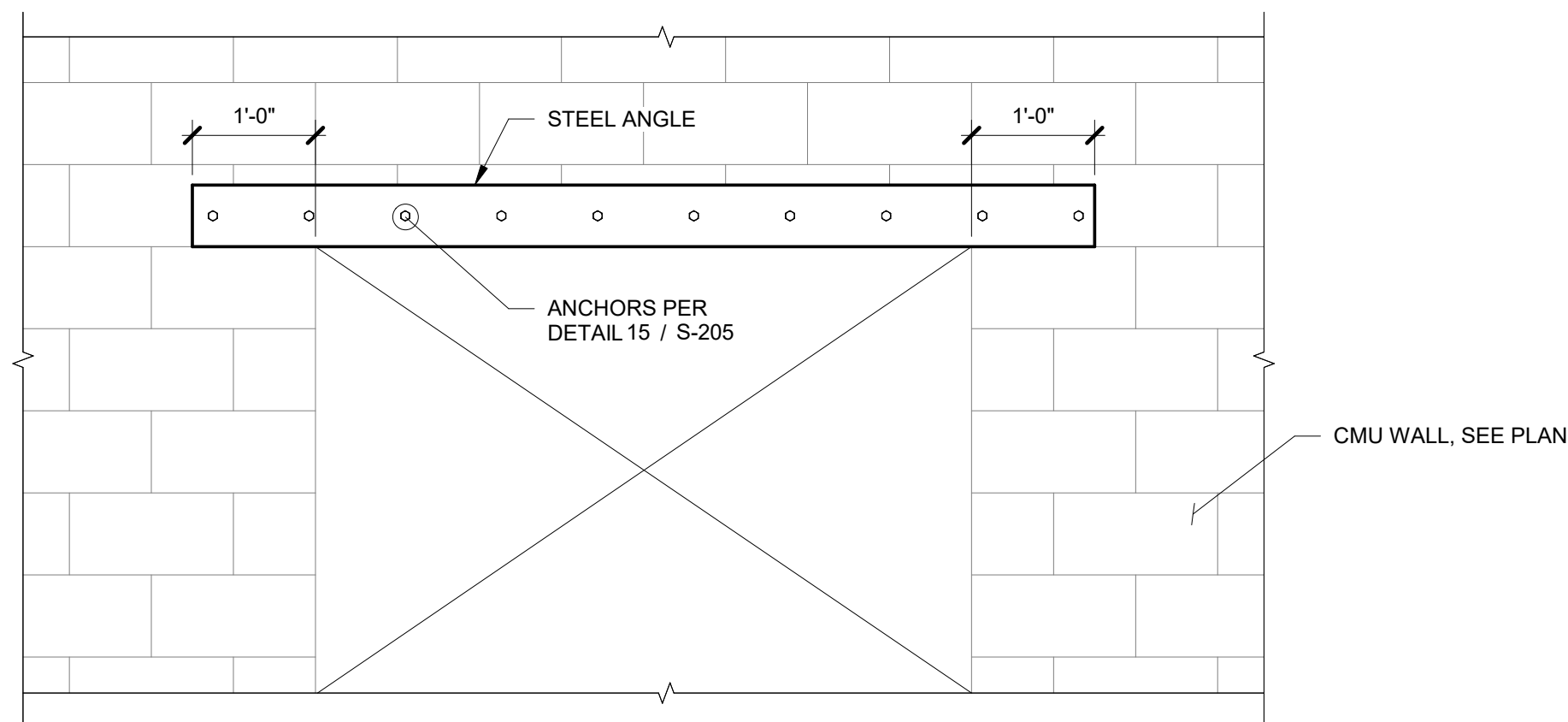
NOTE: DETAILS ARE SCHEMATIC ONLY. LICENSED CONNECTION ENGINEER TO PROVIDE STEEL DETAILER WITH FINAL CONNECTION DESIGN PER GENERAL NOTES.

9 HSS Column Shear Connection Details
3/4" = 1'-0"

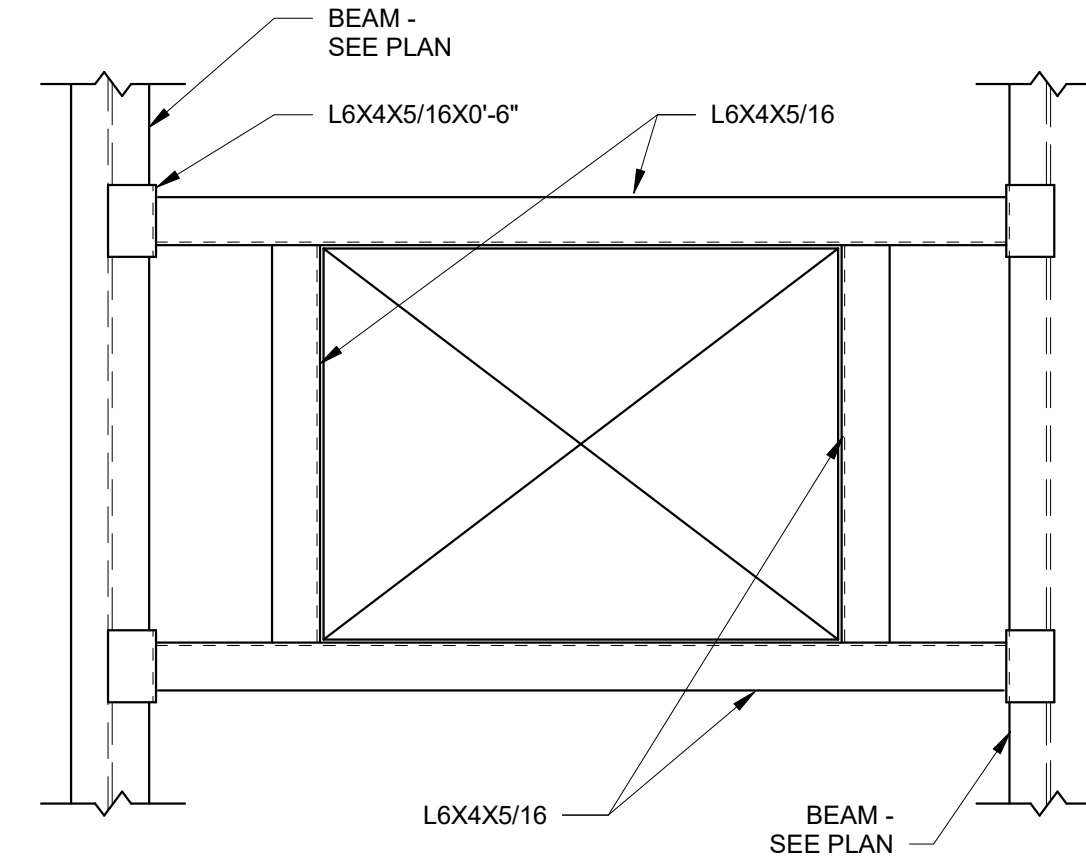


NOTE: DETAILS ARE SCHEMATIC ONLY. LICENSED CONNECTION ENGINEER TO PROVIDE STEEL DETAILER WITH FINAL CONNECTION DESIGN PER GENERAL NOTES.

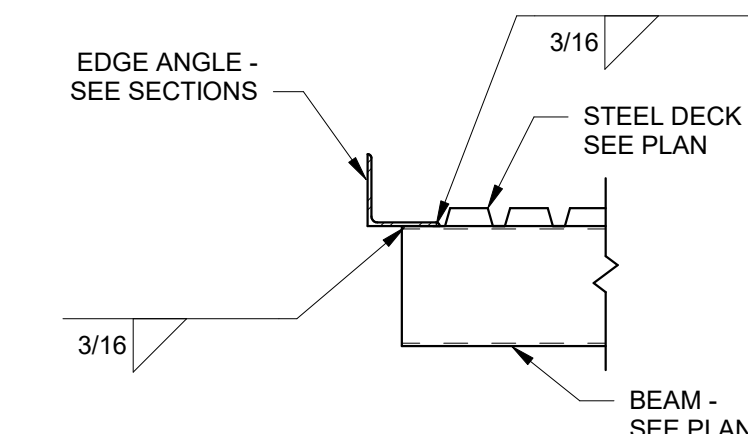
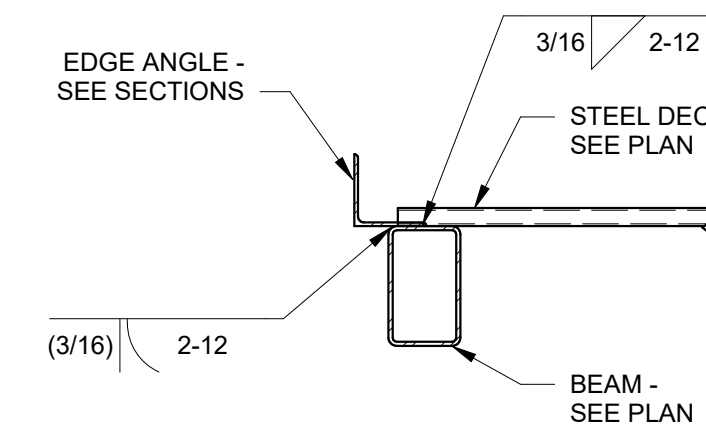
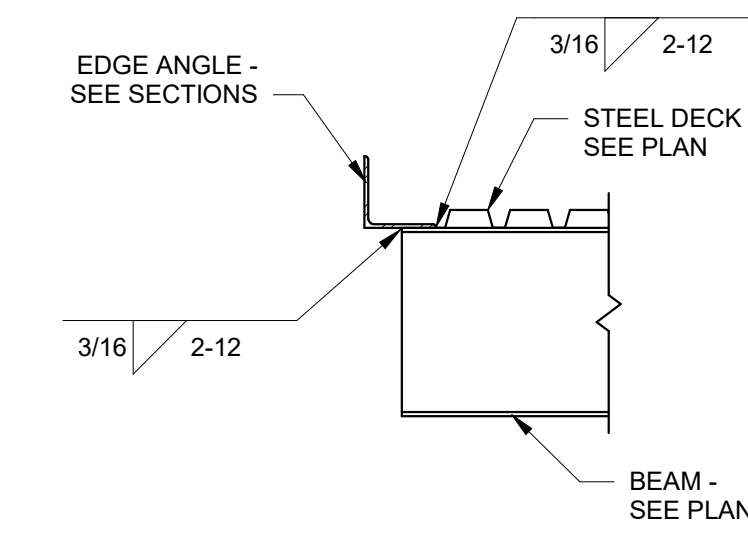
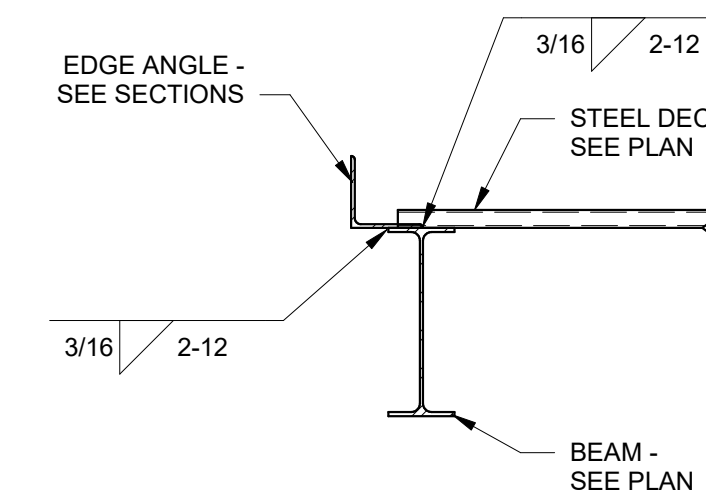
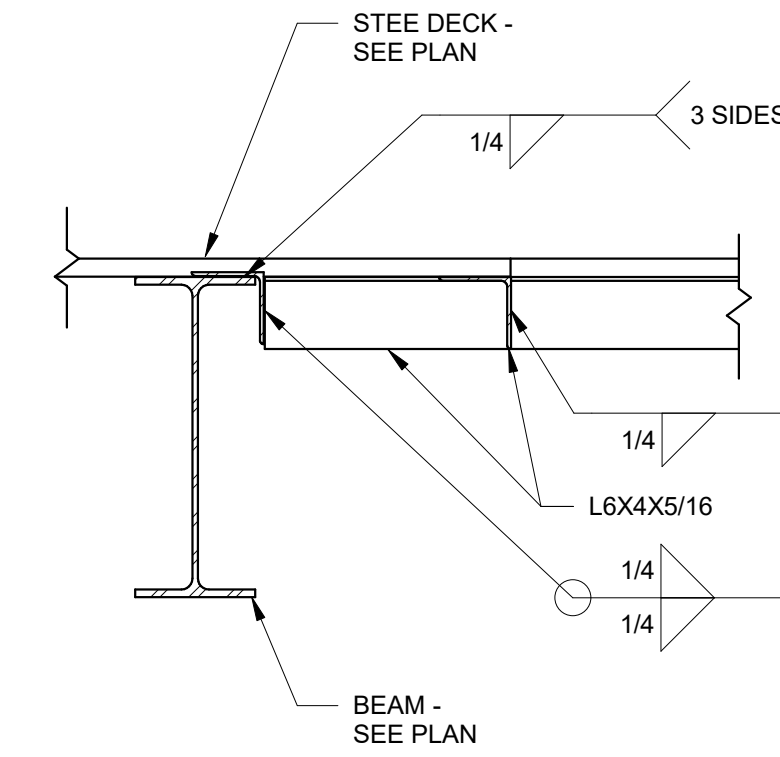
8 Wide-Flange Girder Shear Connection Details
3/4" = 1'-0"



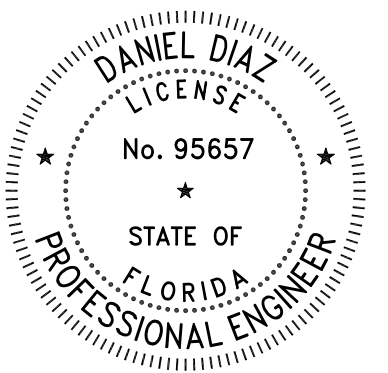
14 ELEVATION AT EXTERIOR DOOR OPENING
3/4" = 1'-0"



2 Opening in Steel Roof Deck
3/4" = 1'-0"



12 Roof Deck Edge Angle Attachment
3/4" = 1'-0"



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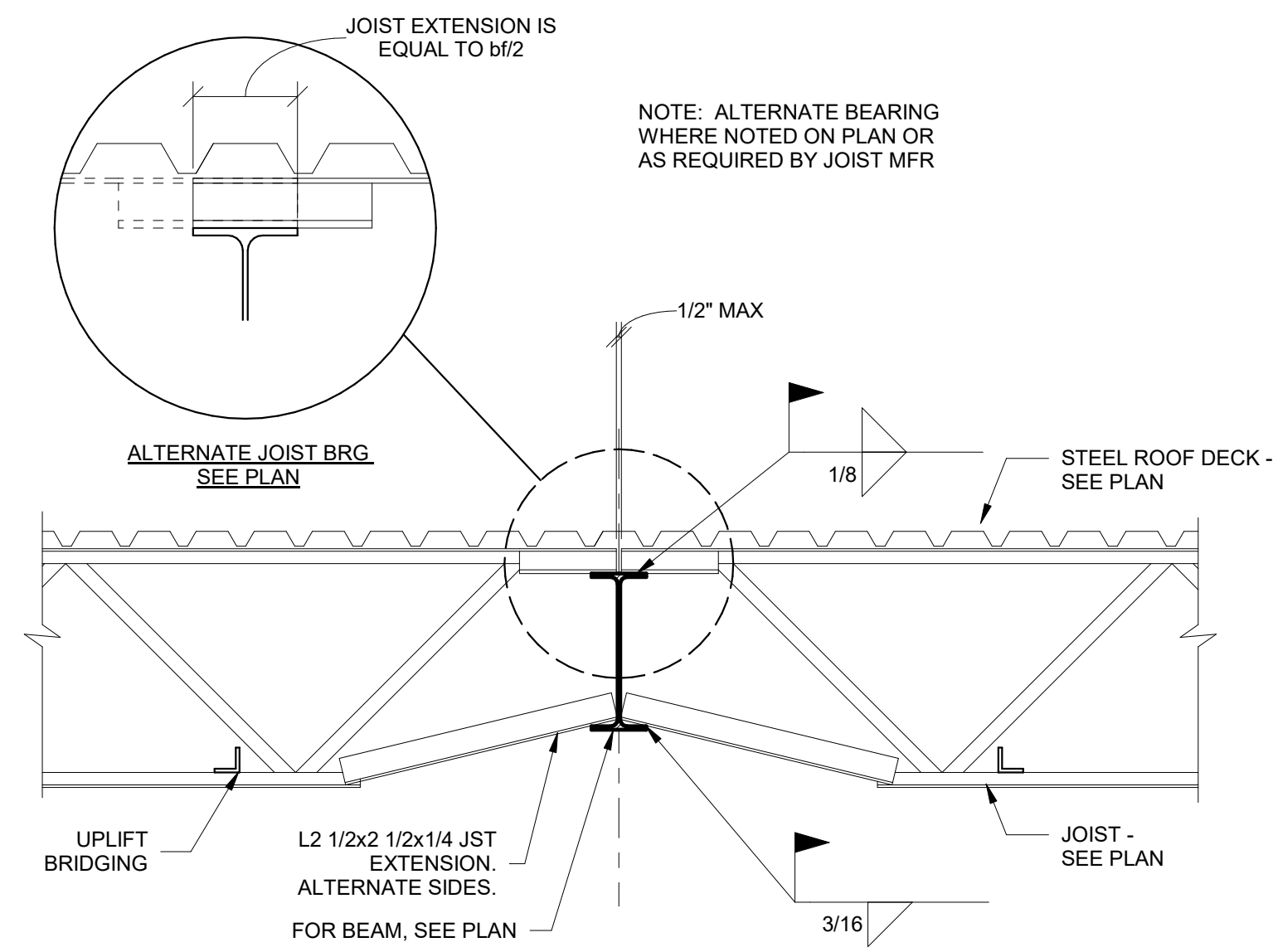
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1	PERMIT SET	2024-08-11
2	ADDENDUM #2	2024-08-26

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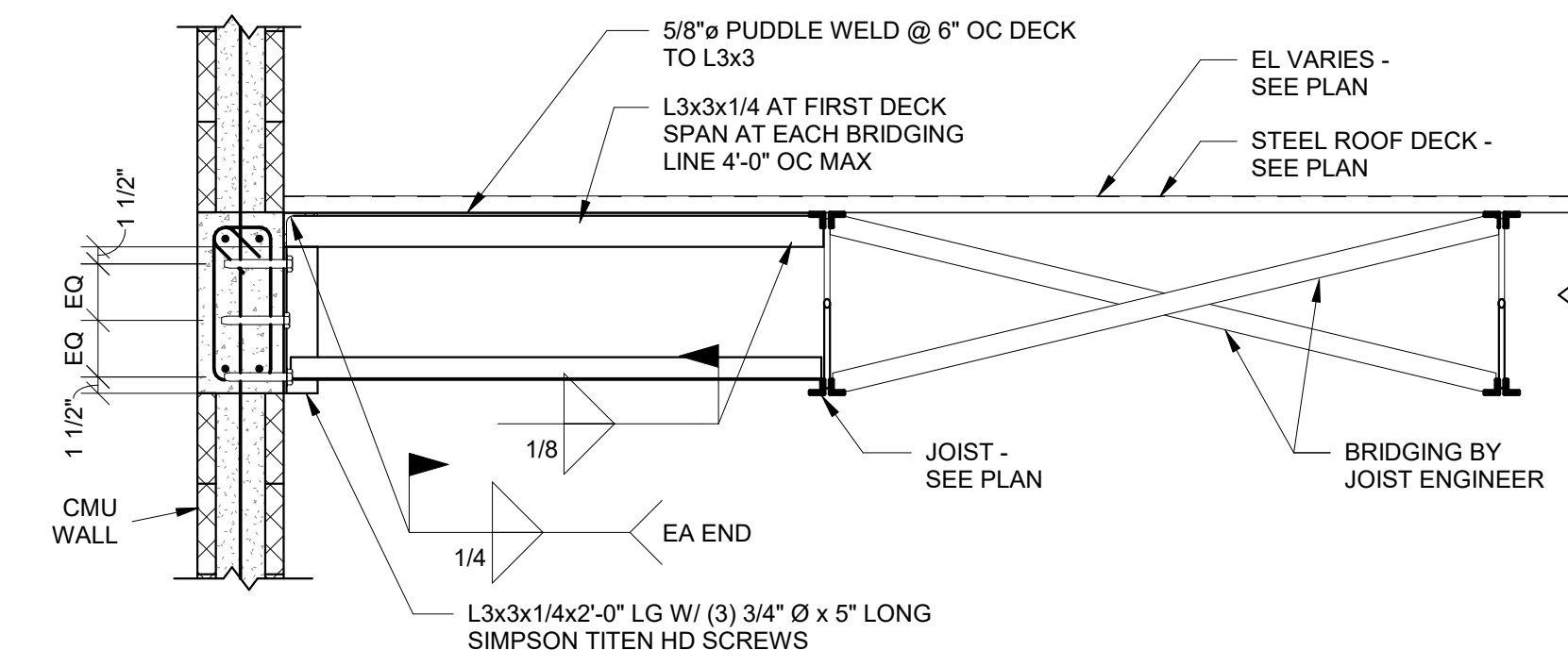
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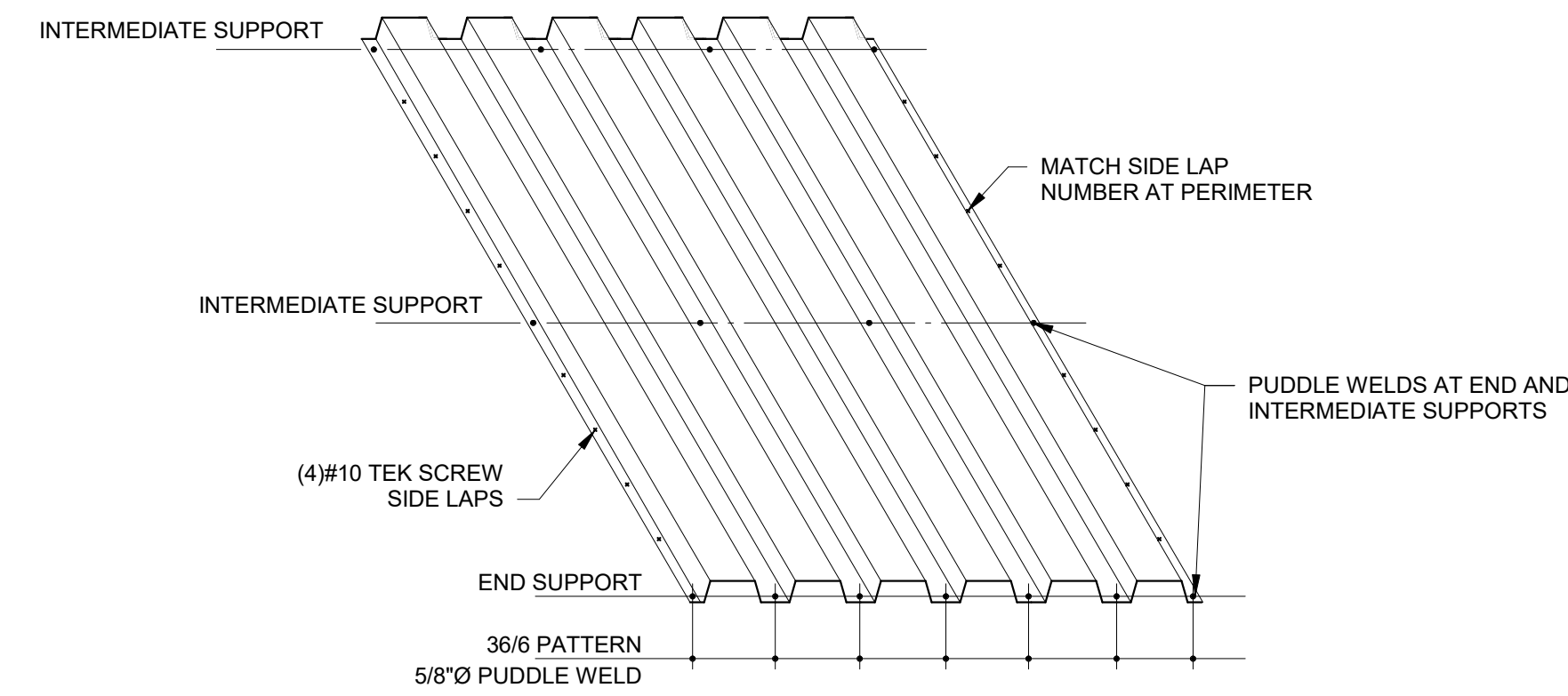
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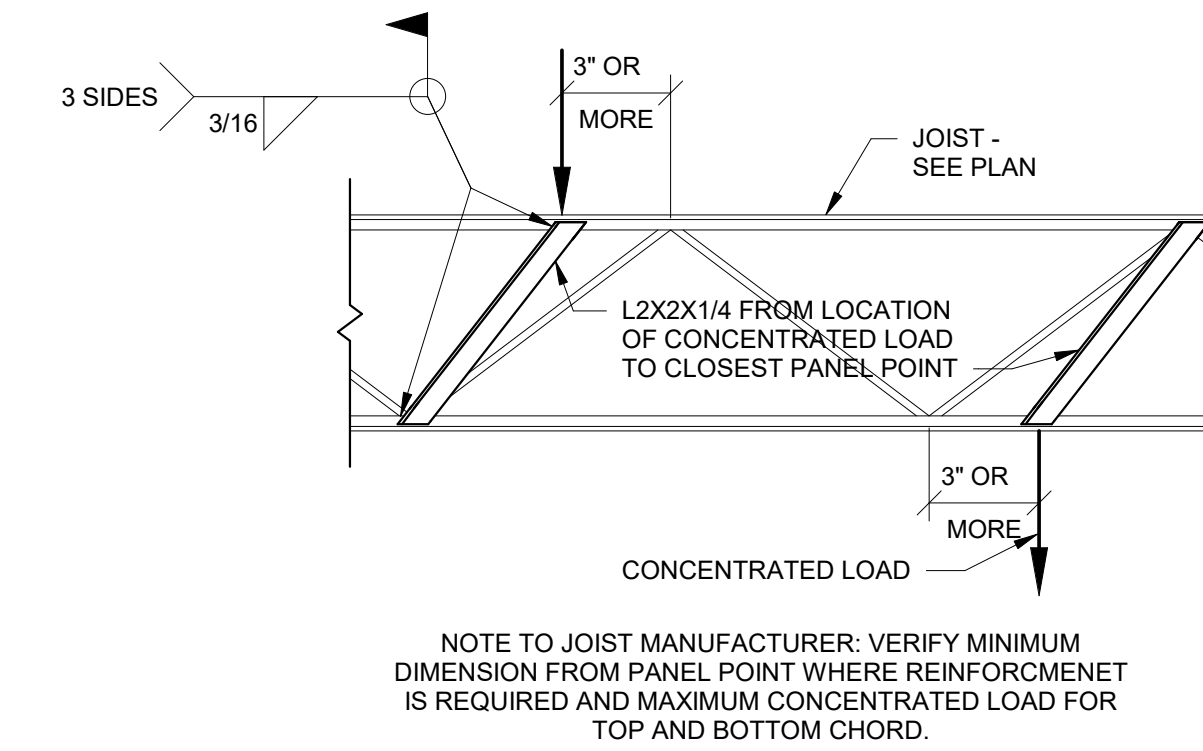
4 Joist Connection at Beam
3/4" = 1'-0"



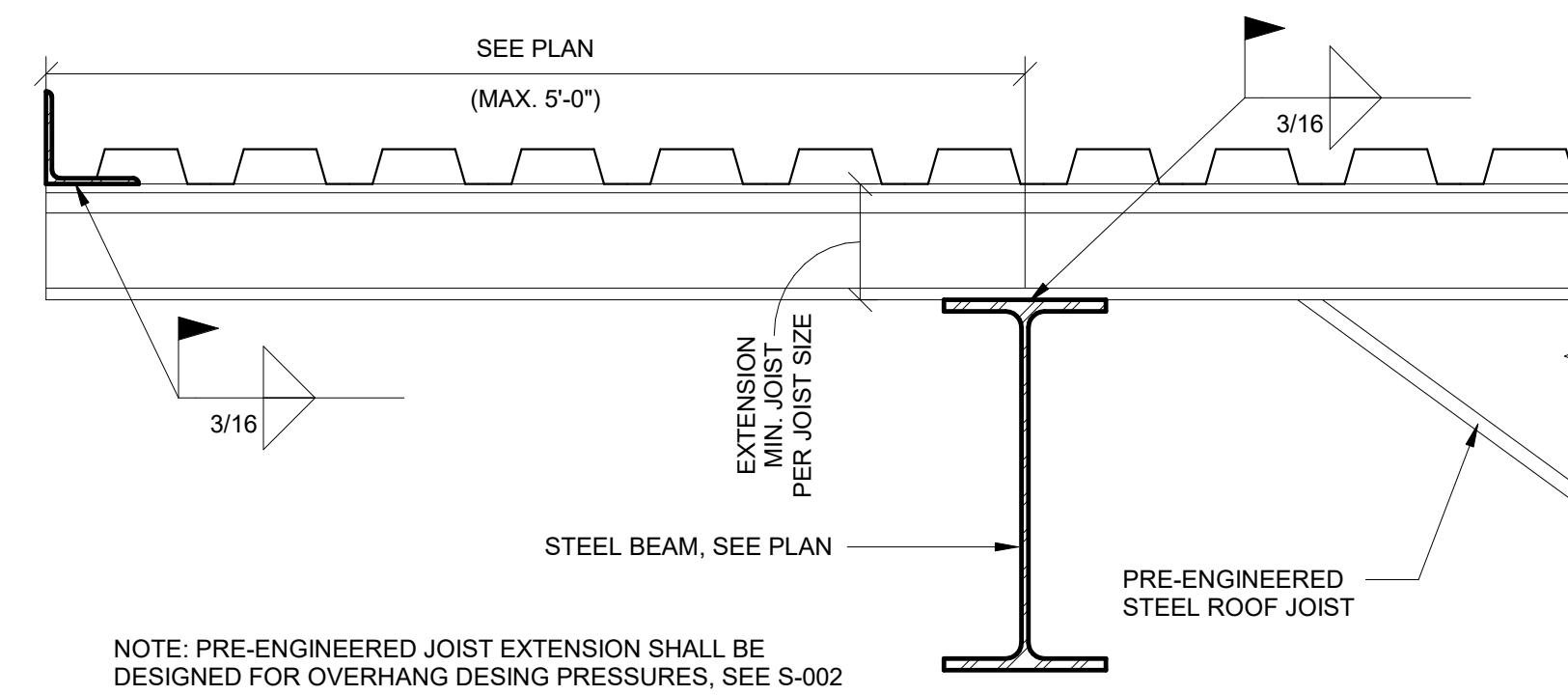
2 Typical Joist Bridging Termination Detail
3/4" = 1'-0"



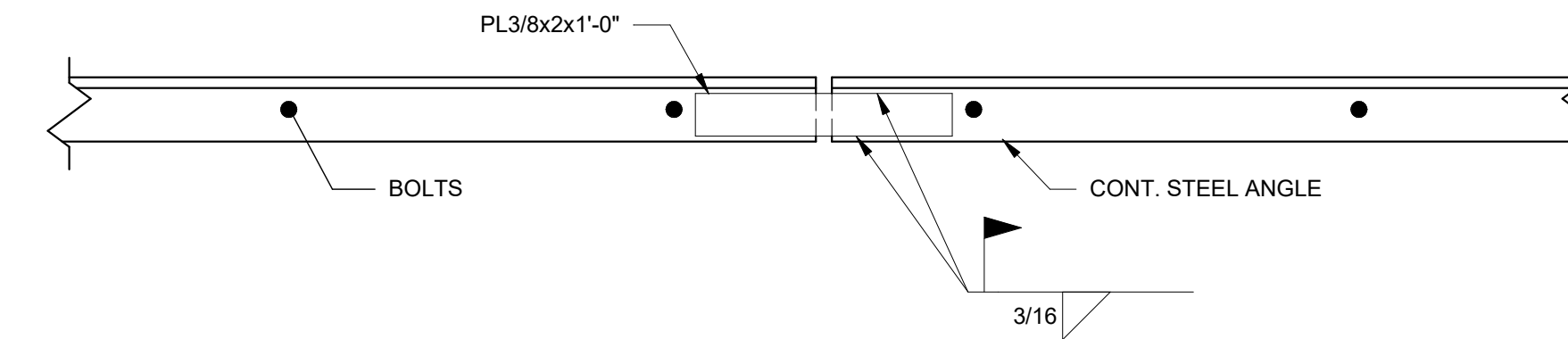
9 1 1/2" Type B Roof Deck Attachment Detail
1" = 1'-0"



7 Joist Panel Point Reinforcement Detail
3/4" = 1'-0"



14 Typical Roof Joist Bearing & Overhang Section
1 1/2" = 1'-0"



12 Edge Angle Splice Detail
1 1/2" = 1'-0"

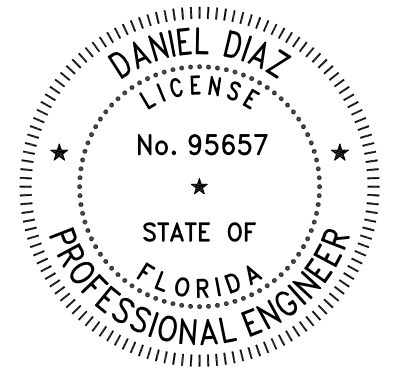
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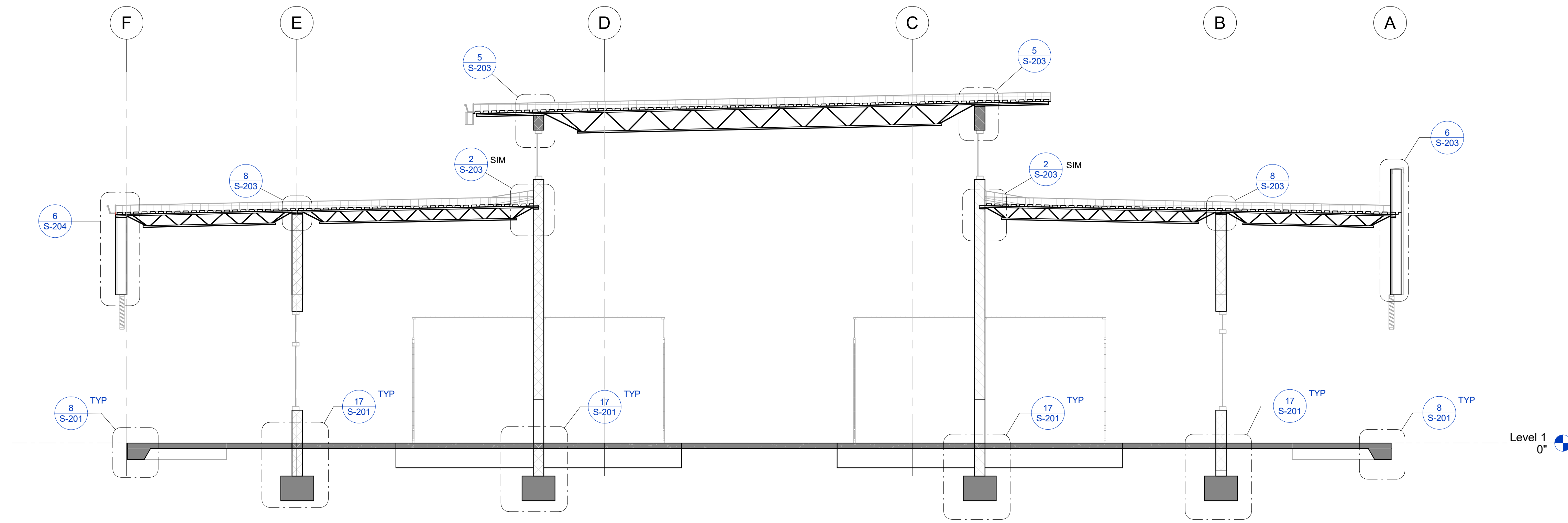
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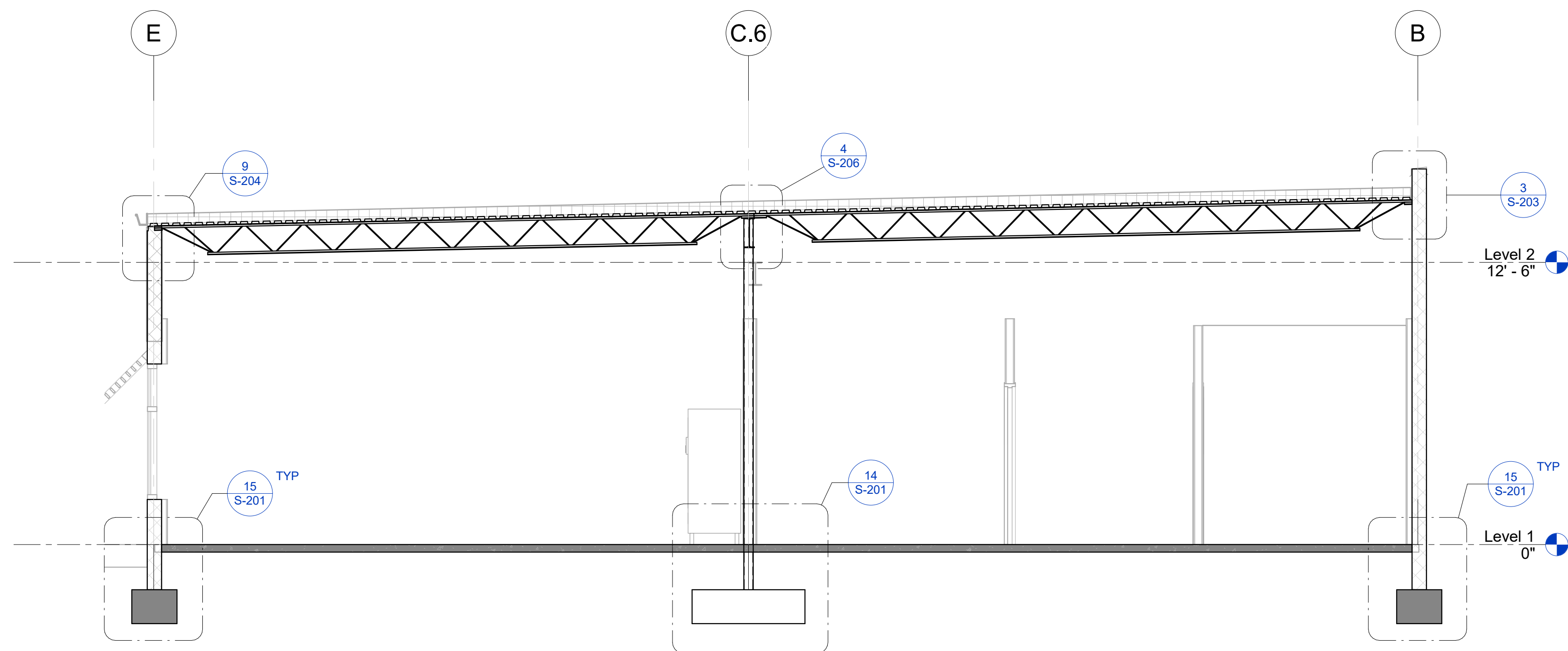
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1 SECTION
S-101 | 1/4" = 1'-0"



2 SECTION
S-101 | 1/4" = 1'-0"

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BUILDING SECTIONS

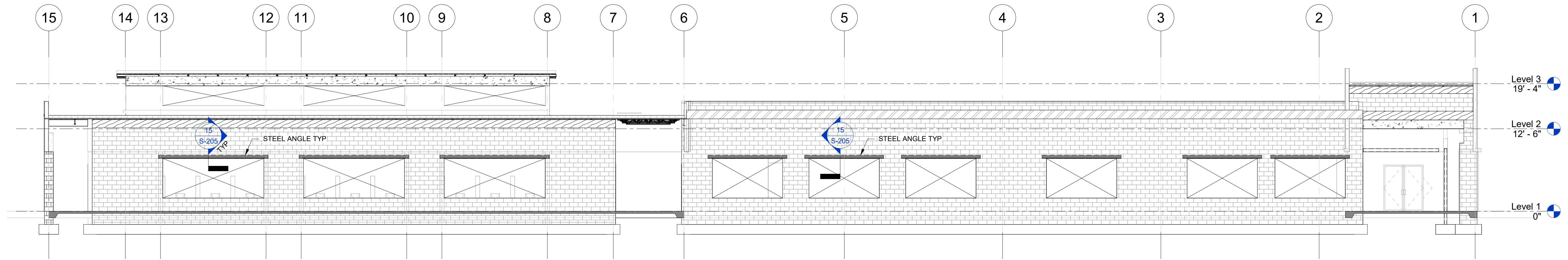
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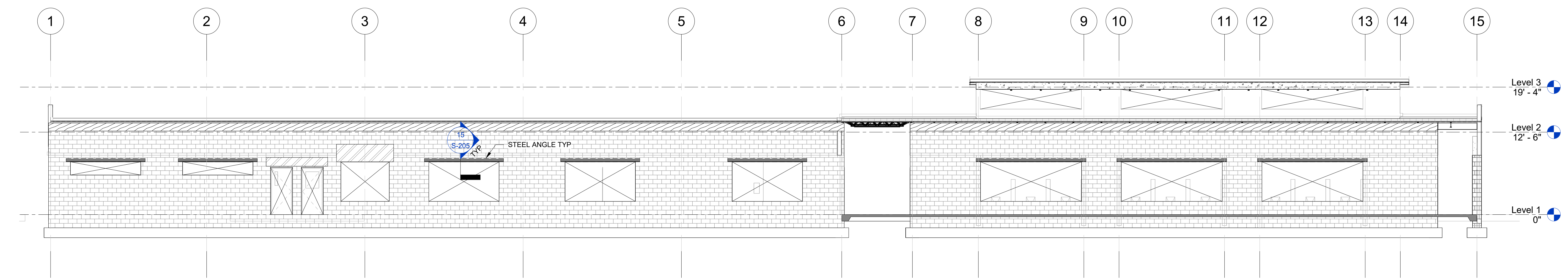
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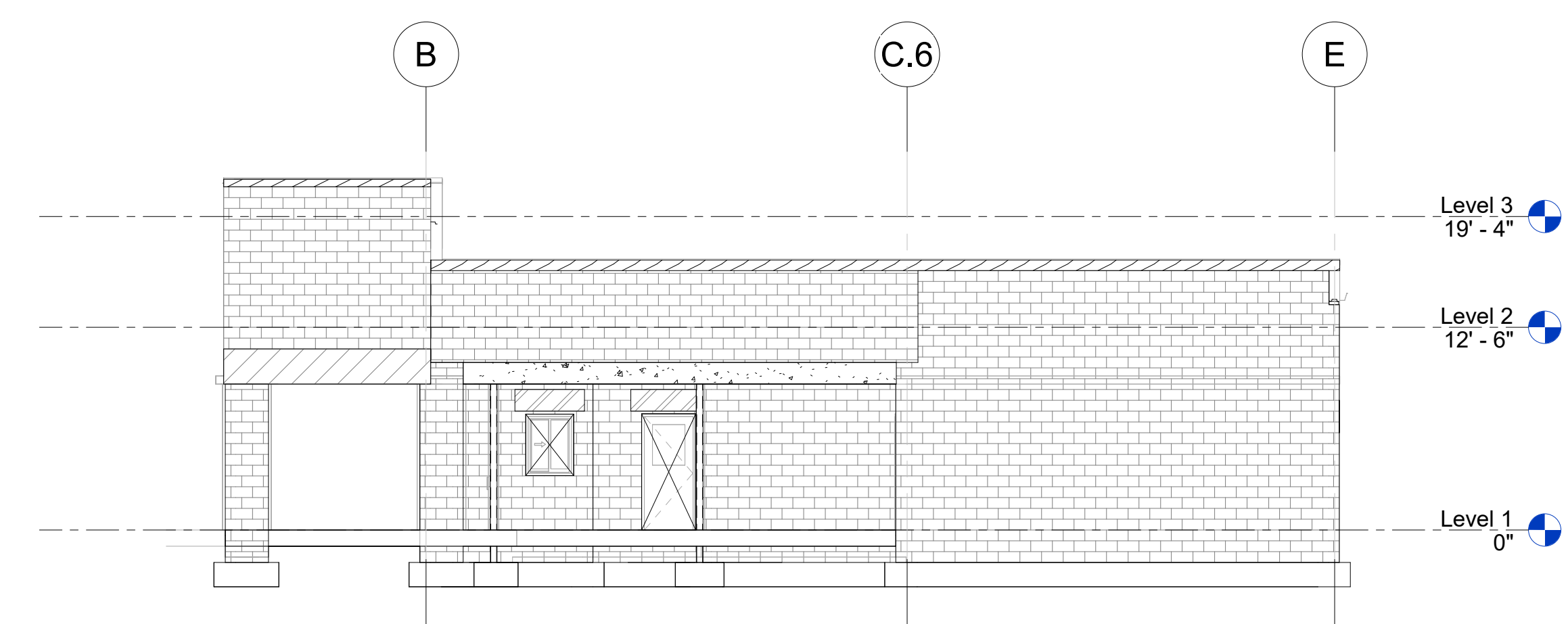
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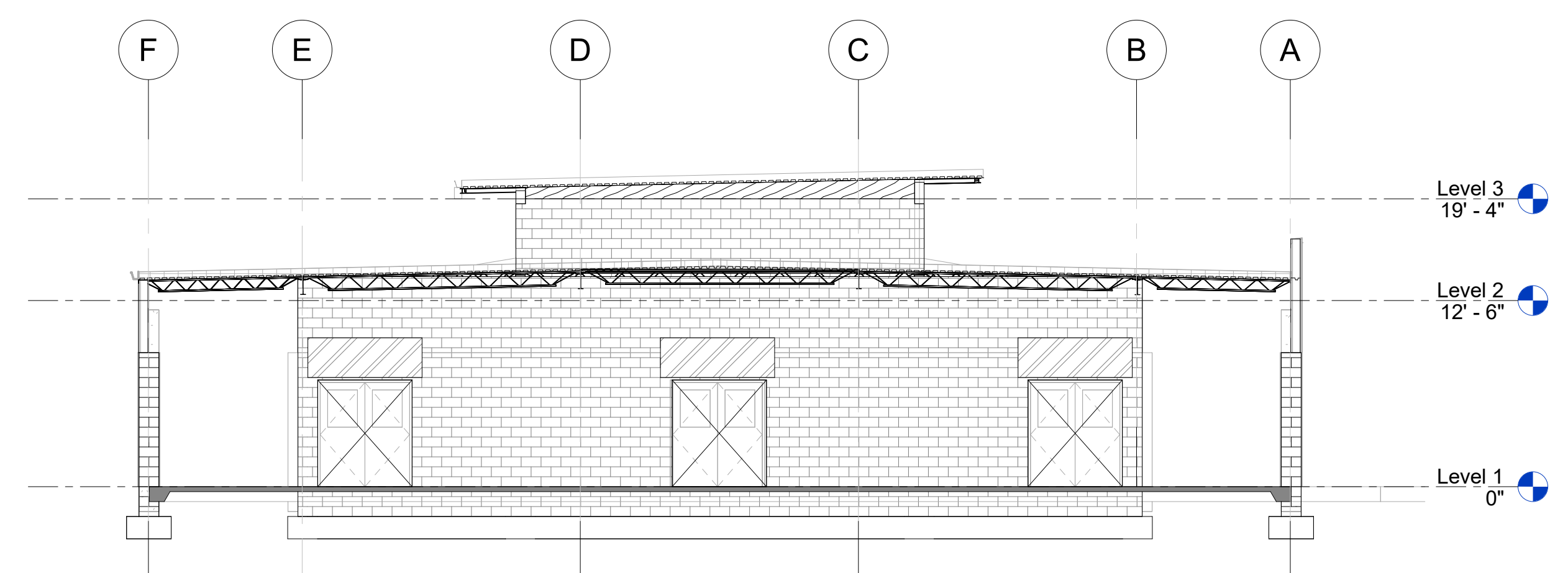
1 EAST WALL ELEVATION
1/8" = 1'-0"



2 WEST WALL ELEVATION
1/8" = 1'-0"



4 NORTH WALL ELEVATION
1/8" = 1'-0"



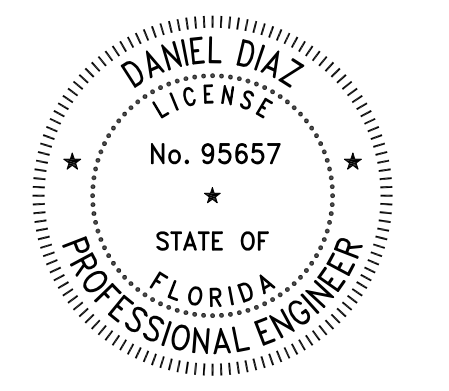
3 SOUTH WALL ELEVATION
1/8" = 1'-0"

LEGENDS

- INDICATES CONCRETE BEAM
- INDICATES PRECAST LINTEL REFER 19 / S-202
- INDICATES CMU LINTEL / CONT BOND BEAM (SPLIT FACE), REFER 19 / S-202
- INDICATES CONTINUOUS BOND BEAM
- INDICATES STEEL ANGLE REFER 15 / S-205

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GEORGE F YOUNG
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Tampa, FL 33607 | 813.223.1747
FIRM CERTIFICATE OF AUTHORIZATION
FLORIDA REG. #21
PROJECT #: 23001300TT



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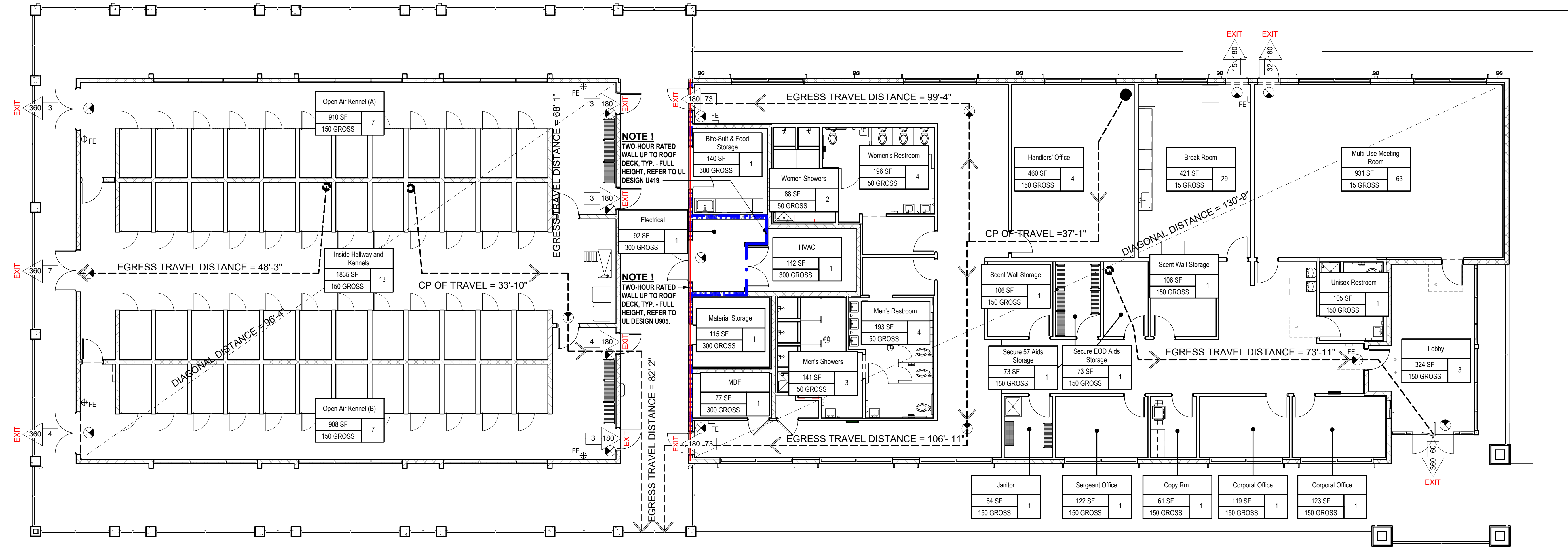
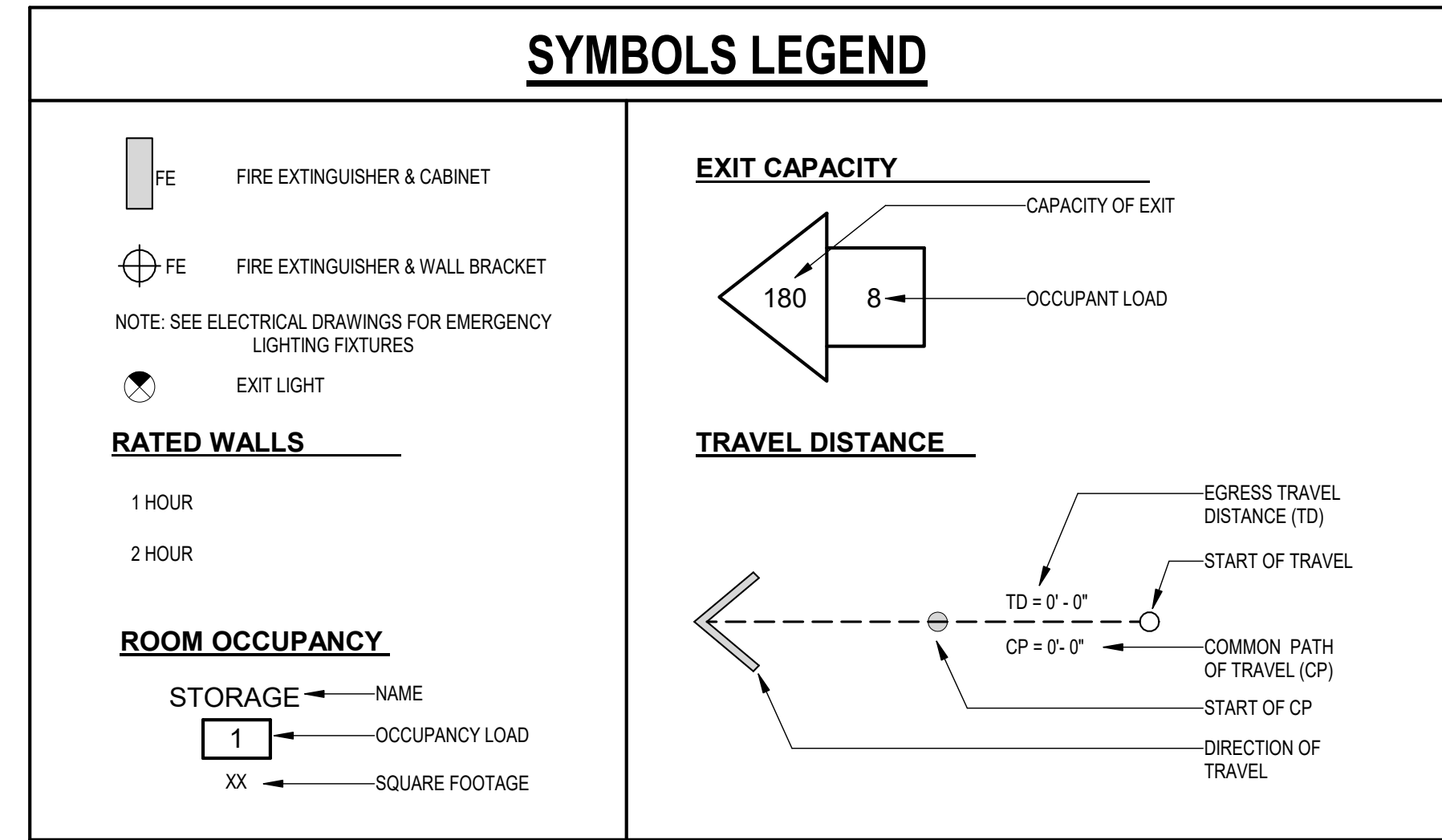
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S-401



1 OVERALL LIFE SAFETY PLAN
1/8" = 1'-0"

HCSO: Regional Canine Training Center

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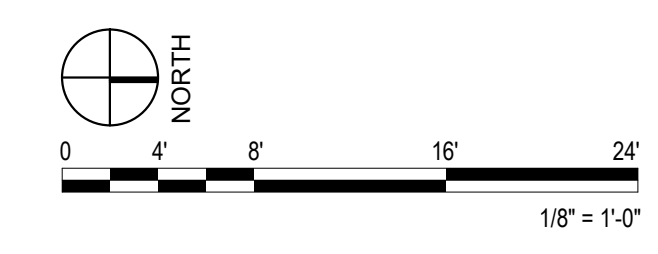
OVERALL LIFE SAFETY PLAN

#	ISSUED FOR	DATE
1	PERMIT SET	2024-06-11
2	ADDENDUM 2	2024-08-02

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REVIEW BY: BTL
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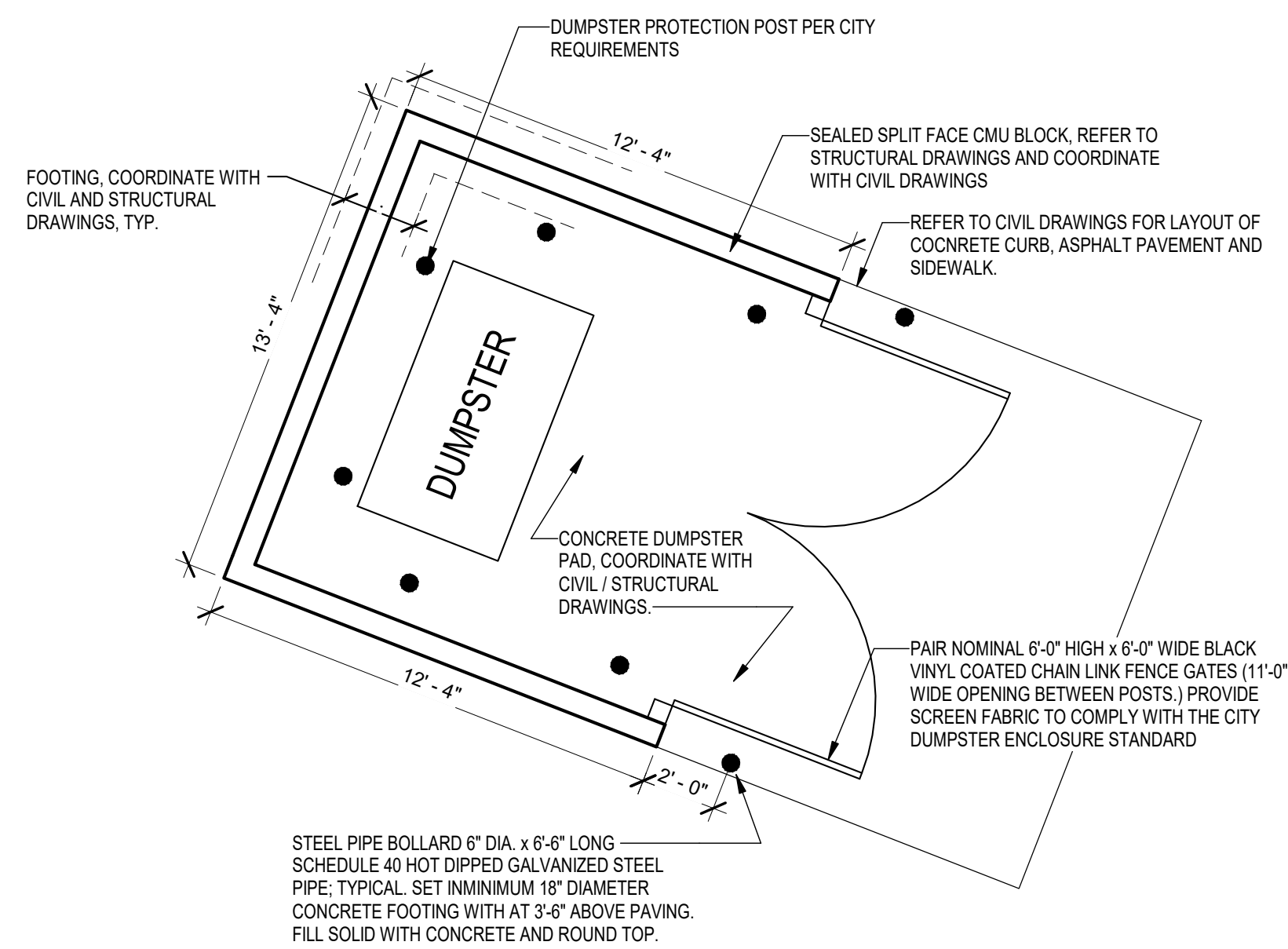


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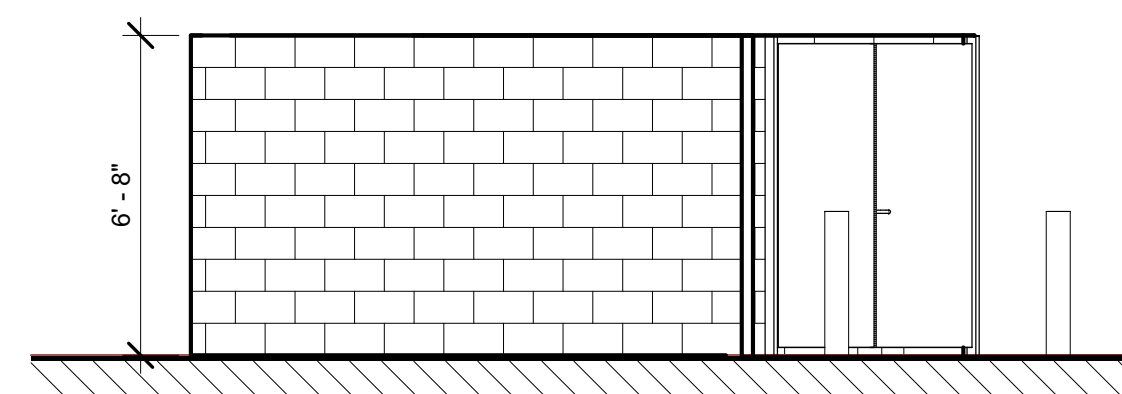
LS-101

GENERAL NOTES:

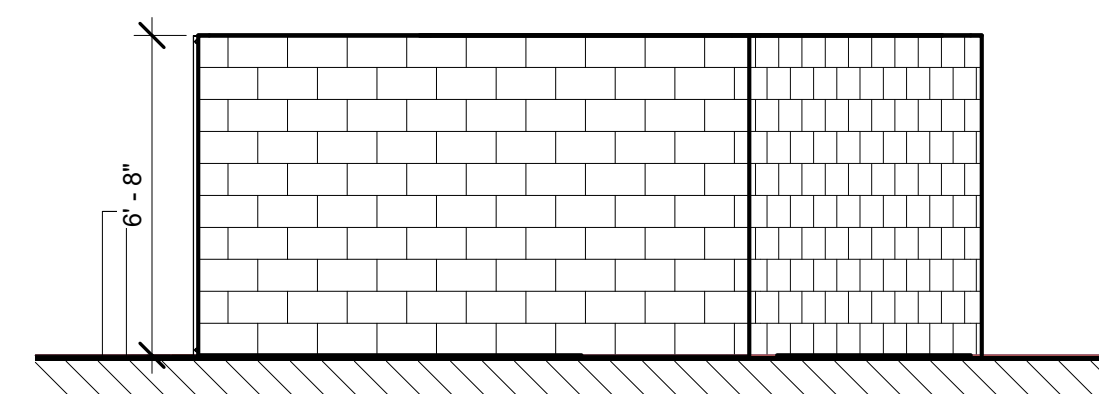
- ARCHITECTURAL SITE PLAN SHOWN FOR LOCATION AND REFERENCE ONLY. SEE CIVIL SITE PLAN FOR CIVIL INFORMATION AND DETAILS PERTAINING TO SITE LAYOUT.
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY DIMENSIONAL CONFLICT PRIOR TO CONSTRUCTION.
- ARCHITECTURAL SITE PLAN IS SHOWN FOR VISUAL REFERENCE ONLY.



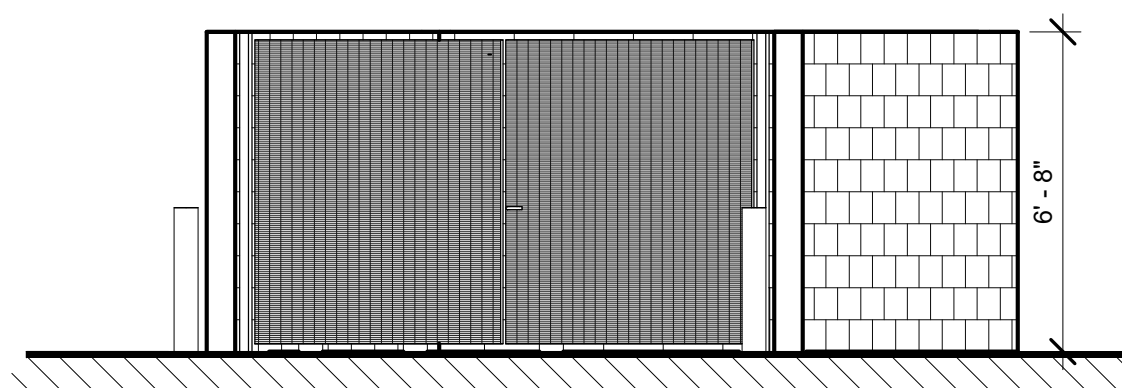
2 ENLARGED FLOOR PLAN - DUMPSTER
1/4" = 1'-0"



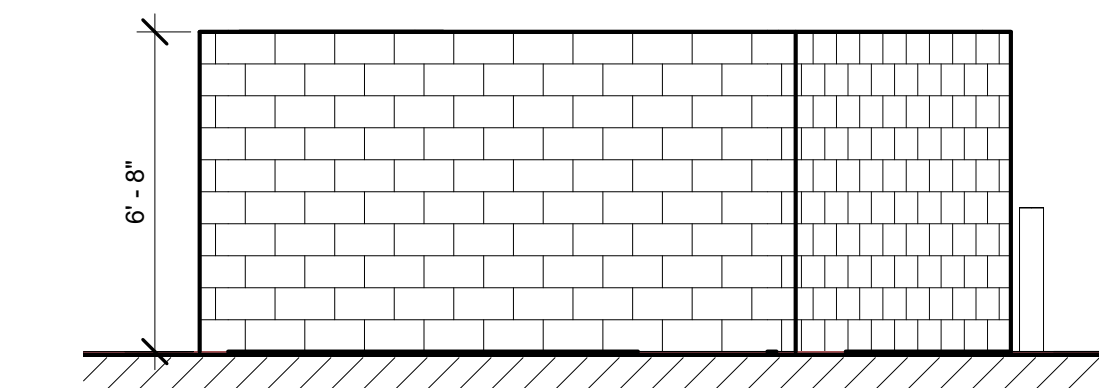
3 EAST ELEVATION - DUMPSTER
1/4" = 1'-0"



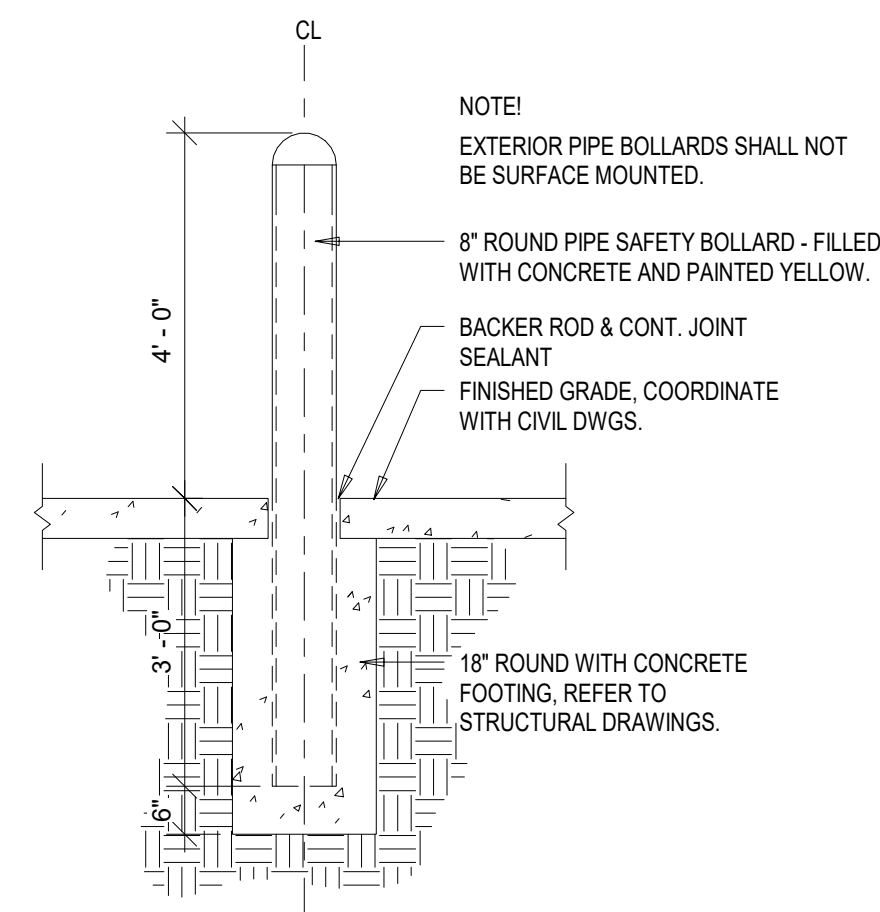
4 WEST ELEVATION - DUMPSTER
1/4" = 1'-0"



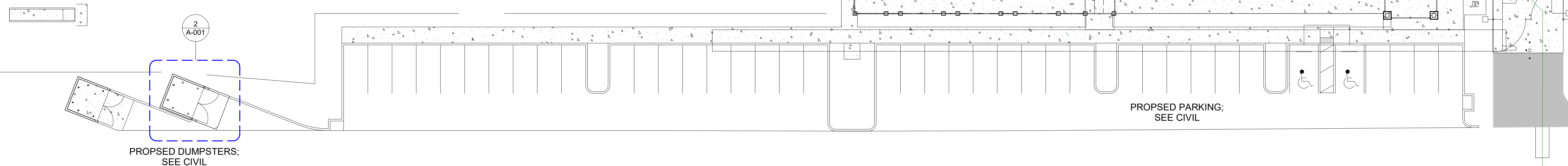
5 NORTH ELEVATION - DUMPSTER
1/4" = 1'-0"



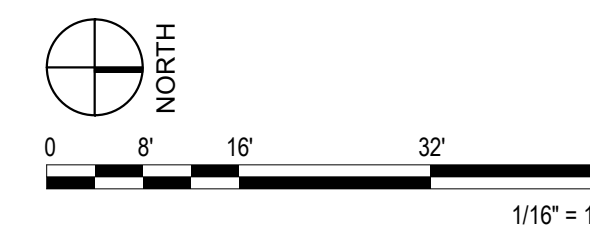
6 SOUTH ELEVATION - DUMPSTER
1/4" = 1'-0"



7 EXTERIOR 6" DIA. BOLLARD DETAILS
12" = 1'-0"



1 ARCHITECTURAL SITE PLAN
1" = 20'-0"



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ARCHITECTURAL SITE PLAN

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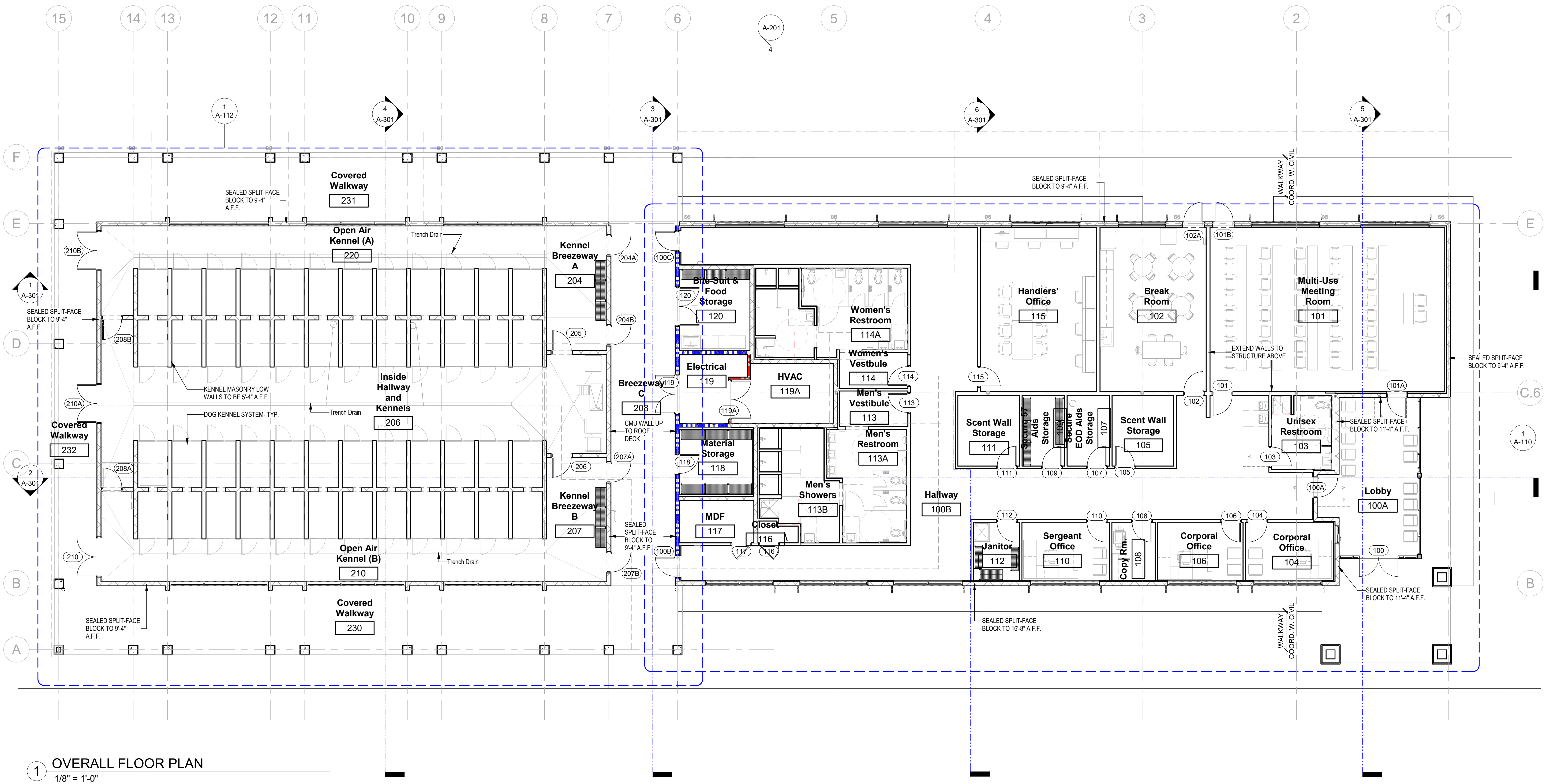
A-001

FLOOR PLAN NOTES

1. GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS & NOTIFY ARCHITECT OF ANY CONFLICT PRIOR TO CONSTRUCTION.
2. FURNITURE SHOWN FOR REFERENCE. FURNITURE PROCUREMENT AND/OR FURNITURE SELECTION IS NOT IN THIS SCOPE OF WORK AND SHALL BE PROVIDED BY OTHERS.

SHEET NOTES

1. PROVIDE SEMI-RECESSED FIRE EXTINGUISHER CABINET. MOUNT BOTTOM OF CABINET @ 2'-8" AFF AND REFER TO ARCHITECTURAL SPECIFICATIONS.
2. 90 MIN FIRE RATED DOOR ASSEMBLY. REFER TO SCHEDULE.
3. INTERIOR DOORS. REFER TO SCHEDULE.
4. REFERENCE DRAWING A-404 FOR DOG KENNEL SYSTEMS.
5. TYPICAL ON ALL OUTSIDE CORNERS TO RECEIVE STAINLESS STEEL CORNER GUARD.
6. SYSTEMS FURNITURE TO BE PROVIDED BY OWNER.



1 OVERALL FLOOR PLAN
1/8" = 1'-0"

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OVERALL FLOOR PLAN

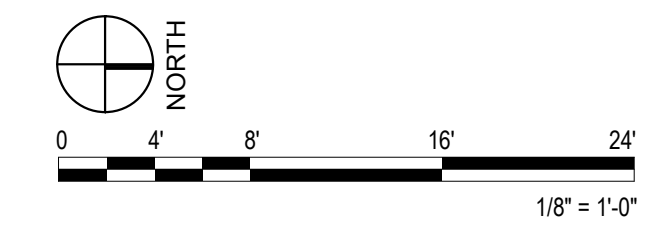
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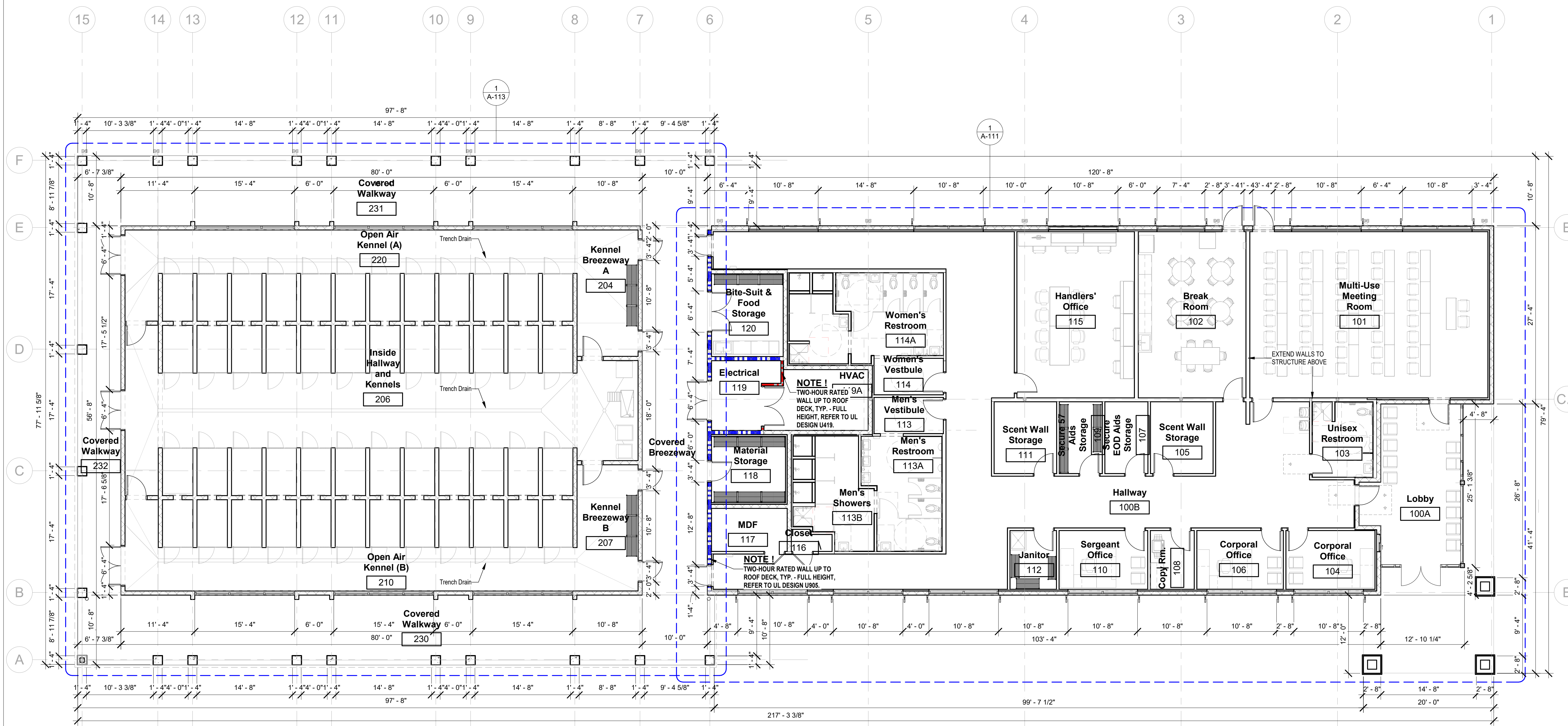


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A-102

GENERAL NOTES:

- GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS & NOTIFY ARCHITECT OF ANY CONFLICT PRIOR TO CONSTRUCTION.
- ALL DIMENSIONS ARE TO FACE OF STUD OR MASONRY UNLESS SPECIFICALLY NOTED OTHERWISE AS A "CLEAR" DIMENSION TO FINISHED FACE OF WALL, OR A CENTERLINE DIMENSIONS ARE NOMINAL, IF SHOWN.
- GENERAL CONTRACTOR SHALL VERIFY ALL INFORMATION SHOWN ON ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION PLANS FOR PRICING.



1 OVERALL DIMENSION FLOOR PLAN
1/8" = 1'-0"

NOTE: PROVIDE SMOOTH MASONRY ABOVE SPLIT-FACE WHERE APPLICABLE
PROVIDE SPLIT FACE LINTEL BLOCK ABOVE ALL WINDOWS AT PERIMETER OF OFFICE AREA

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OVERALL DIMENSION FLOOR PLAN

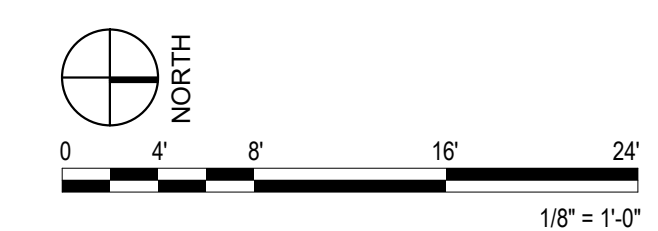
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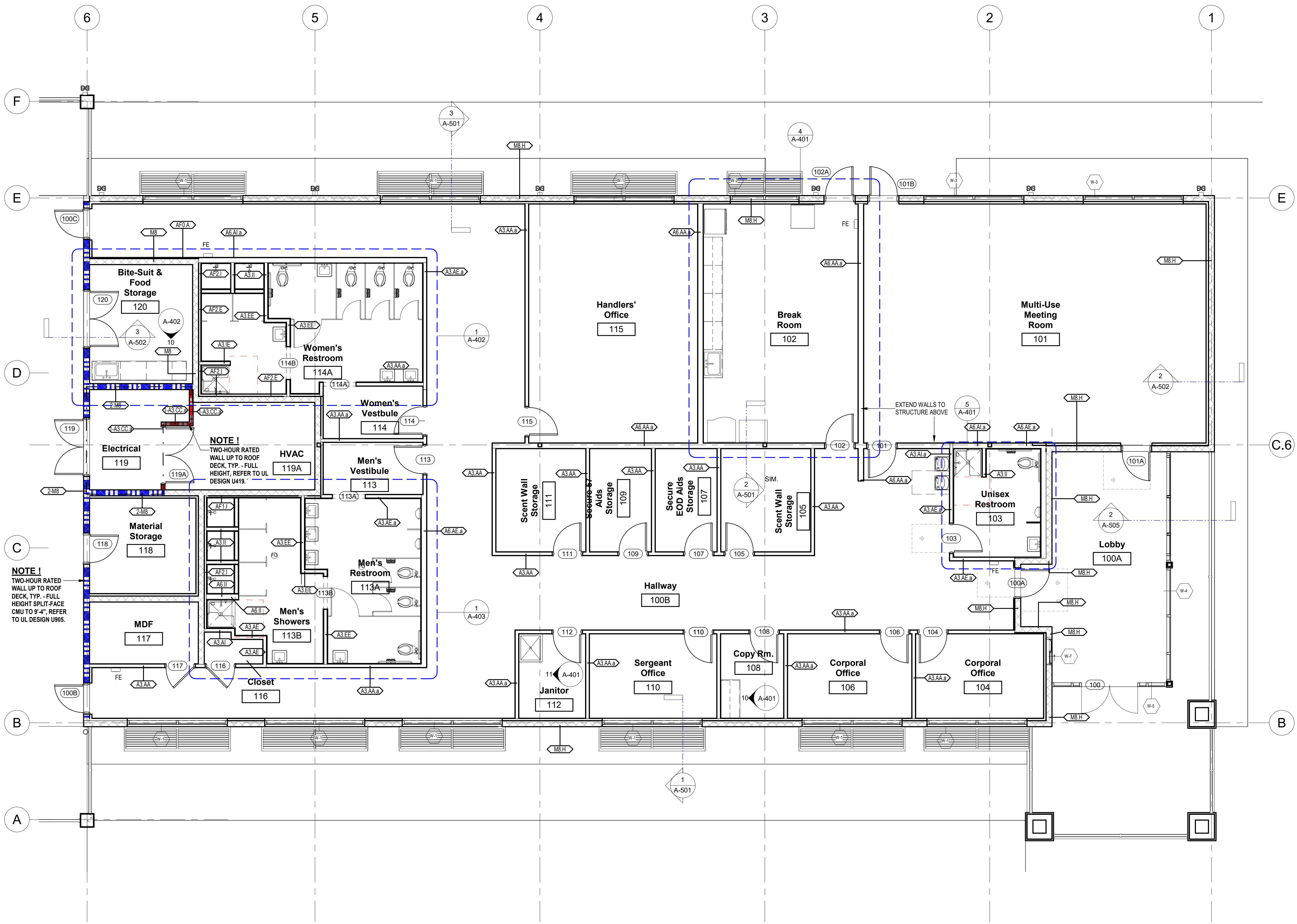


23164.01

A-103

GENERAL NOTES:

1. SHOULD THE GENERAL CONTRACTOR FIND ANY DISCREPANCIES, OMISSIONS, AMBIGUITIES, OR CONFLICTS IN THE DOCUMENTS THEY SHOULD BRING TO THE ATTENTION OF THE ARCHITECT BEFORE ORDERING MATERIALS AND/OR PROCEEDING WITH ANY WORK IN QUESTION.
2. FIRE EXTINGUISHERS SHALL BE ABC 10 LB DRY CHEMICAL UL-A-89.0 CLASSIFICATION, MOUNTED TO TOP OF FIRE EXTINGUISHER CABINET. FINAL LOCATION PER FIRE MARSHALL.
3. SEMI-RECESSED CABINET FIRE EXTINGUISHERS AT ADMIN BLDG. FINAL LOCATION PER FIRE MARSHALL, REFERENCE ARCHITECTURAL AND FIRE PROTECTION DRAWINGS FOR SPRINKLER SYSTEM INFORMATION, FIRE RATED WALL LOCATIONS, AND LIFE SAFETY INFORMATION.
4. ALL FURNITURE AND EQUIPMENT TO BE PROCURED BY OWNER AND INSTALLED BY EITHER GENERAL CONTRACTOR OR THIRD PARTY VENDOR.
5. WHERE DOORS ARE SHOWN ON PLANS IN INTERIOR PARTITIONS THAT ARE NOT SPECIFICALLY LOCATED WITH DIMENSION STRINGS, PROVIDE A MIN. OF HINGE SIDE DIMENSION OF 4" FROM DOOR OPENING TO ADJACENT PERPENDICULAR WALLS. WHERE DOORS APPEAR TO BE CENTERED WITHIN ROOMS OR CORRIDORS, LOCATE THE DOOR(S) WITHIN THE CENTER OF THE ROOM OR CORRIDOR INTO WHICH THEY ARE PLACED.
6. FURNITURE SHOWN FOR REFERENCE ONLY. CONTRACTOR TO COORDINATE WITH HCISO FOR SPECIFIC ITEMS TO BE PROVIDED / INSTALLED. NOT INCLUDED IN SCOPE OF WORK. REFER TO CIVIL DRAWINGS FOR COMPONENTS 5'-0" OUTSIDE OF THE BUILDING ENVELOPE.
7. REFRIGERATOR AND ASSOCIATED KITCHEN COMPONENTS SHALL BE PROVIDED AND INSTALLED BY THE OWNER WITH COORDINATION OF THE GC. CONTRACTOR TO VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT WITH ANY DIMENSIONAL CONFLICTS.
8. ALL GYPSUM BOARD TO BE LEVEL 4 SMOOTH FINISH.



NOTE !
TWO-HOUR RATED WALL UP TO ROOF DECK, TYP. - FULL HEIGHT SPLIT-FACE CMU TO 9'-4". REFER TO UL DESIGN U905.

NOTE !
TWO-HOUR RATED WALL UP TO ROOF DECK, TYP. - FULL HEIGHT, REFER TO UL DESIGN U419.

1 ENLARGED ADMIN. FLOOR PLAN
3/16" = 1'-0"

HCSO: Regional Canine Training Center

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ENLARGED ADMIN FLOOR PLAN

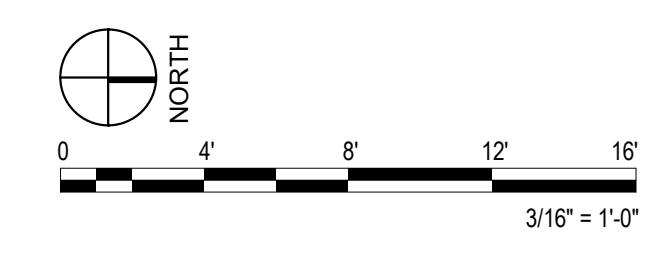
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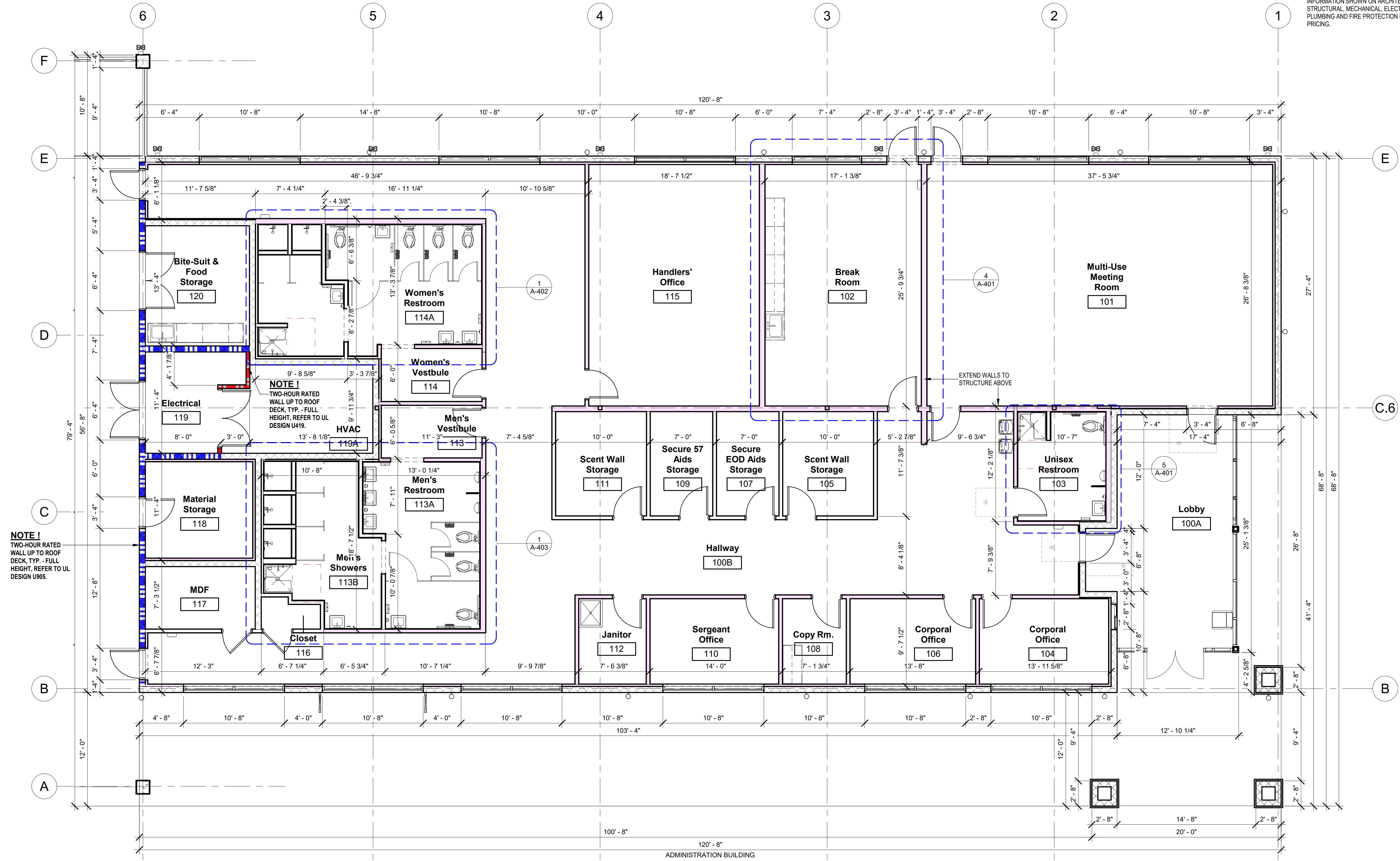


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A-110

GENERAL NOTES:

- GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS & NOTIFY ARCHITECT OF ANY CONFLICT PRIOR TO CONSTRUCTION.
- ALL DIMENSIONS ARE TO FACE OF STUD OR MASONRY UNLESS SPECIFICALLY NOTED OTHERWISE AS A "CLEAR" DIMENSION TO FINISHED FACE OF WALL, OR A CENTERLINE DIMENSIONS ARE NOMINAL, IF SHOWN.
- GENERAL CONTRACTOR SHALL VERIFY ALL INFORMATION SHOWN ON ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION PLANS FOR PRICING.



NOTE!
TWO-HOUR RATED WALL UP TO ROOF DECK, TYP. - FULL HEIGHT, REFER TO UL DESIGN U905.

NOTE!
TWO-HOUR RATED WALL UP TO ROOF DECK, TYP. - FULL HEIGHT, REFER TO UL DESIGN U419.

1 ENLARGED DIMENSION FLOOR PLAN
3/16" = 1'-0"

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ENLARGED DIMENSION ADMIN FLOOR PLAN

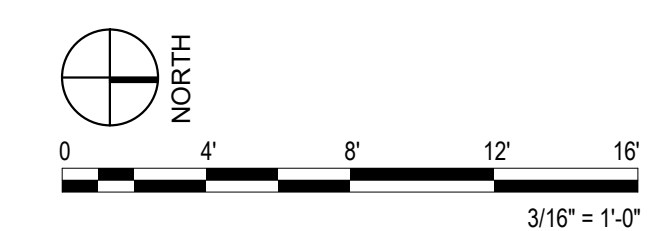
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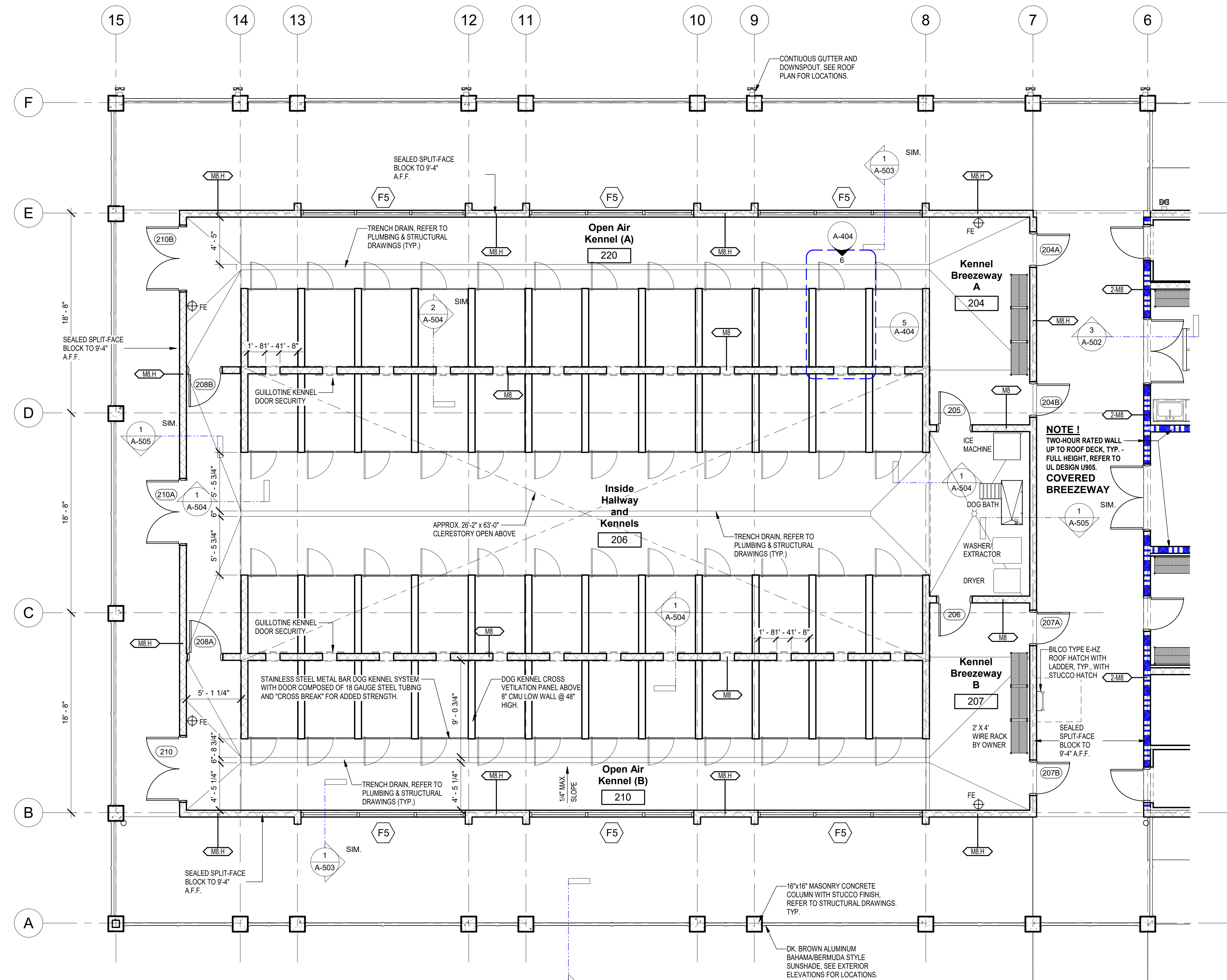


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A-111

GENERAL NOTES:

- SHOULD THE GENERAL CONTRACTOR FIND ANY DISCREPANCIES, OMISSIONS, AMBIGUITIES, OR CONFLICTS IN THE DOCUMENTS THEY SHOULD BRING TO THE ATTENTION OF THE ARCHITECT BEFORE ORDERING MATERIALS AND/OR PROCEEDING WITH ANY WORK IN QUESTION.
- FIRE EXTINGUISHERS SHALL BE ABC 10 LB DRY CHEMICAL UL-A - 80° C CLASSIFICATION. MOUNTED TO TOP OF FIRE EXTINGUISHER CABINET. WALL HUNG AT KENNEL BLDG. FINAL LOCATION PER FIRE MARSHALL.
- SEMI-RECESSED CABINET FIRE EXTINGUISHERS AT ADMIN BLDG. FINAL LOCATION PER FIRE MARSHALL.
- REFERENCE ARCHITECTURAL AND FIRE PROTECTION DRAWINGS FOR SPRINKLER SYSTEM INFORMATION, FIRE RATED WALL LOCATIONS, AND LIFE SAFETY INFORMATION.
- ALL FURNITURE AND EQUIPMENT TO BE PROCURED BY OWNER AND INSTALLED BY EITHER GENERAL CONTRACTOR OR THIRD PARTY VENDOR.
- WHERE DOORS ARE SHOWN ON PLANS IN INTERIOR PARTITIONS THAT ARE NOT SPECIFICALLY LOCATED WITH DIMENSION STRINGS, PROVIDE A MIN. OF HINGE SIDE DIMENSION OF 4" FROM DOOR OPENING TO ADJACENT PERPENDICULAR WALLS. WHERE DOORS APPEAR TO BE CENTERED WITHIN ROOMS OR CORRIDORS, LOCATE THE DOOR(S) WITHIN THE CENTER OF THE ROOM OR CORRIDOR INTO WHICH THEY ARE PLACED.
- ALL WALLS ARE TYPE M4 UNLESS NOTED.
- FURNITURE SHOWN FOR REFERENCE ONLY. CONTRACTOR TO COORDINATE WITH HCSO FOR SPECIFIC ITEMS TO BE PROVIDED / INSTALLED. NOT INCLUDED IN SCOPE OF WORK.
- REFER TO CIVIL DRAWINGS FOR COMPONENTS 5'-0" OUTSIDE OF THE BUILDING ENVELOPE.
- REFRIGERATOR AND ASSOCIATED KITCHEN COMPONENTS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR WITH COORDINATION OF THE OWNER FOR SPECIFIC TYPE AND MODEL TO BE SELECTED.
- CONTRACTOR TO VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT WITH ANY DIMENSIONAL CONFLICTS.
- GUILLOTINE DOORS EQUIVALENT TO SECURITY BOSS, KENNEL CLAD PREMIUM INSULATED GUILLOTINE KENNEL DOOR (EXTRA LARGE 17'W x 34'H, 18 GA ALUMINUM CLAD EACH SIDE, 1" THICK HIGH DENSITY FOAM CORE INSULATION WITH WEATHER STRIPPING AND MOUNTING HARDWARE. PROVIDE CONTROL CABLE LENGTH AS REQUIRED. DOG KENNEL SYSTEM EQUIVALENT TO "EXTREME KENNEL SYSTEM" BY DIRECT ANIMAL PRODUCTS. PROVIDE EXTREME CROSS VENTILATION PANEL ON EACH SIDE OF KENNEL MOUNTED ON TOP OF 5'-4" A.F.F. LOW MASONRY WALL FOR A TOTAL HEIGHT OF 7'-8". PROVIDE 32 W. x 72" HIGH KENNEL DOOR WITH POSITIVE LATCH SIDE PANEL. SYSTEM TO BE MANUFACTURED 00 STAINLESS STEEL FULLY WELDED COMPONENTS. 3/16" VERTICAL RODS, 3/16" CROSS BRACING, 1" FRAMES. PROVIDE ROTATING FOOD / WATER BOWLS IN DOOR. FABRICATED PANELS TO ACCOMMODATE ACTUAL DIMENSIONS.



1 ENLARGED KENNEL FLOOR PLAN
3/16" = 1'-0"

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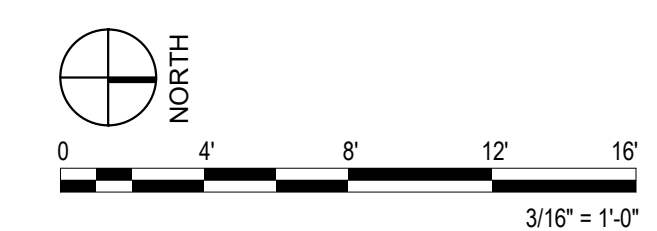
ENLARGED KENNEL FLOOR PLAN

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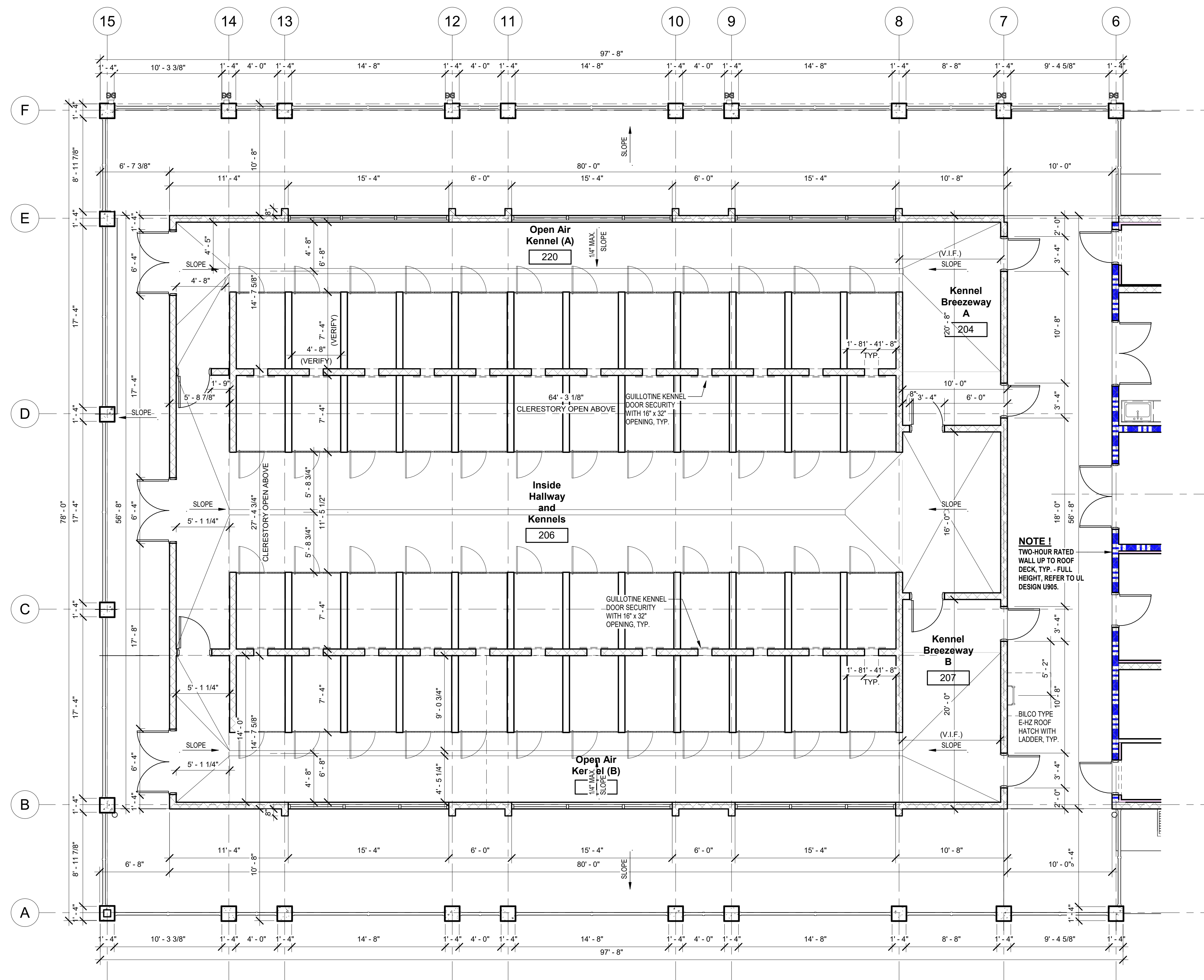
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A-112

GENERAL NOTES:

- GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS & NOTIFY ARCHITECT OF ANY CONFLICT PRIOR TO CONSTRUCTION.
- ALL DIMENSIONS ARE TO FACE OF STUD OR MASONRY UNLESS SPECIFICALLY NOTED OTHERWISE AS A "CLEAR" DIMENSION TO FINISHED FACE OF WALL, OR A CENTERLINE DIMENSION IS NOMINAL, IF SHOWN.
- GENERAL CONTRACTOR SHALL VERIFY ALL INFORMATION SHOWN ON ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION PLANS FOR PRICING.
- CONTRACTOR TO VERIFY ALL DIMENSIONS, NOTIFY ARCHITECT WITH ANY DIMENSIONAL CONFLICTS.
- GUILLOTINE DOORS EQUIVALENT TO SECURITY BOSS, KENNEL CLAD PREMIUM INSULATED GUILLOTINE KENNEL DOOR (EXTRA LARGE 17'x34", 18 GA ALUMINUM CLAD EASH SIDE, 1" THICK HIGH DENSITY FOAM CORE INSULATION WITH WEATHER STRIPPING AND MOUNTING HARDWARE. PROVIDE CONTROL CABLE LENGTH AS REQUIRED.
- DOG KENNEL SYSTEM EQUIVALENT TO "EXTREME KENNEL SYSTEM" BY DIRECT ANIMAL PRODUCTS. PROVIDE EXTREME CROSS VENTILATION PANEL ON EACH SIDE OF KENNEL MOUNTED ON TOP OF 5'-4" A.F.F. LOW MASONRY WALL FOR A TOTAL HEIGHT OF 7'-3". PROVIDE 32 W x 72" HIGH KENNEL DOOR WITH POSITIVE LATCH SIDE PANEL SYSTEM TO BE MANUFACTURED OF STAINLESS STEEL FULLY WELDED COMPONENTS, 3/16" VERTICAL RODS, 3/16" CROSS BRACING, 1" FRAMES. PROVIDE ROTATING FOOD / WATER BOWLS IN DOOR. FABRICATED PANELS TO ACCOMMODATE ACTUAL DIMENSIONS.



1 ENLARGED KENNEL DIMENSION PLAN
3/16" = 1'-0"

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ENLARGED KENNEL DIMENSION PLAN

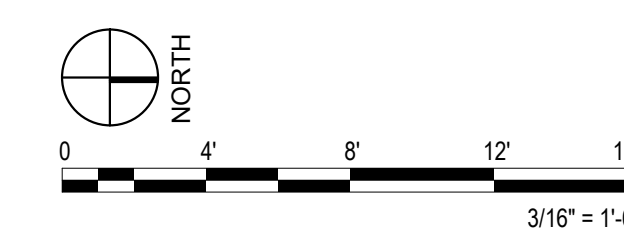
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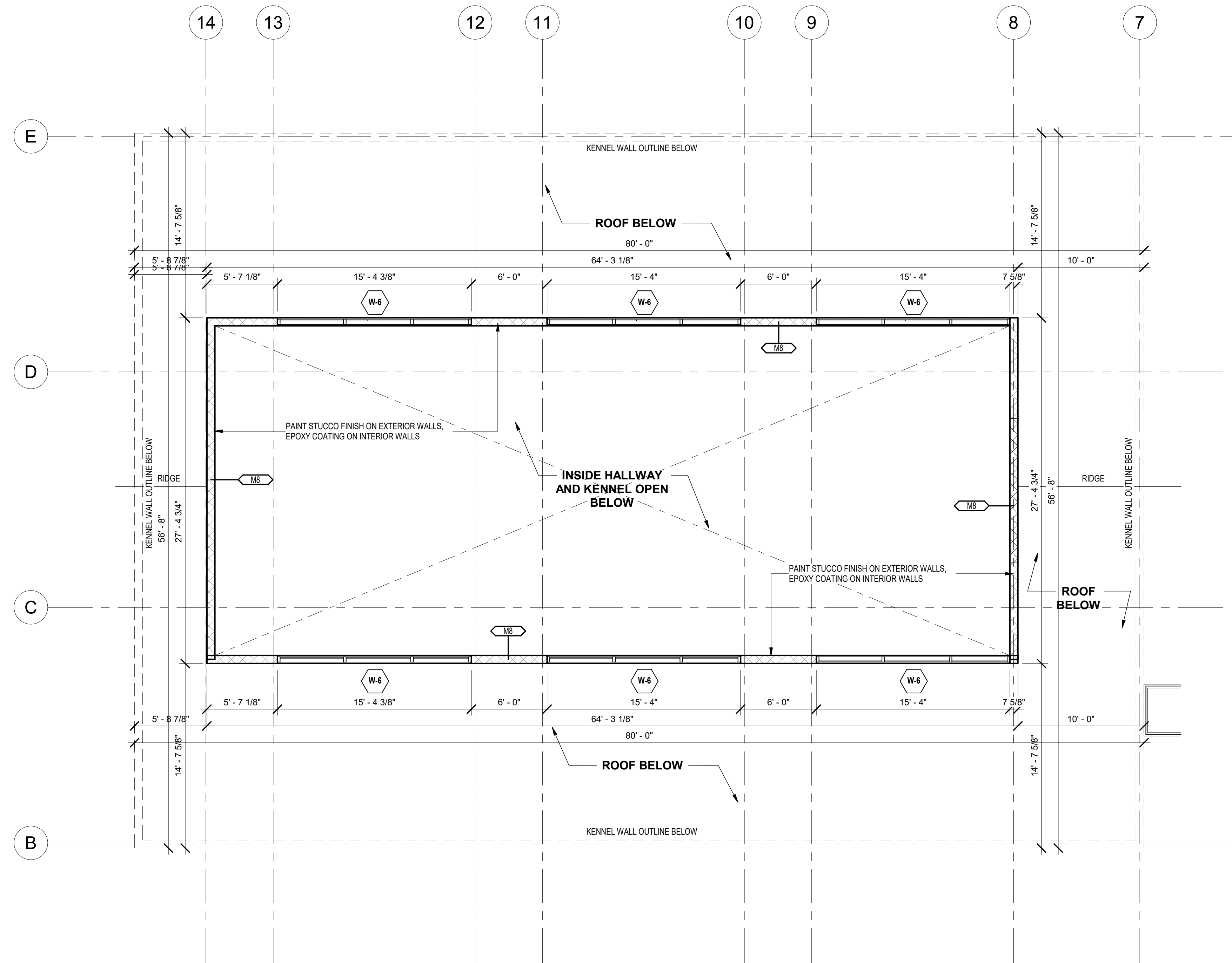


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A-113

GENERAL NOTES:

- GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS & NOTIFY ARCHITECT OF ANY CONFLICT PRIOR TO CONSTRUCTION.
- ALL DIMENSIONS ARE TO FACE OF STUD OR MASONRY UNLESS SPECIFICALLY NOTED OTHERWISE AS A "CLEAR" DIMENSION TO FINISHED FACE OF WALL, OR A CENTERLINE DIMENSIONS ARE NOMINAL, IF SHOWN.
- GENERAL CONTRACTOR SHALL VERIFY ALL INFORMATION SHOWN ON ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION PLANS FOR PRICING.



1 ENLARGED KENNEL CLERESTORY DIMENSION PLAN
3/16" = 1'-0"

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ENLARGED KENNEL CLERESTORY DIMENSION PLAN

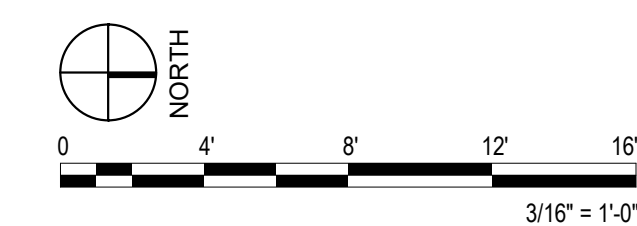
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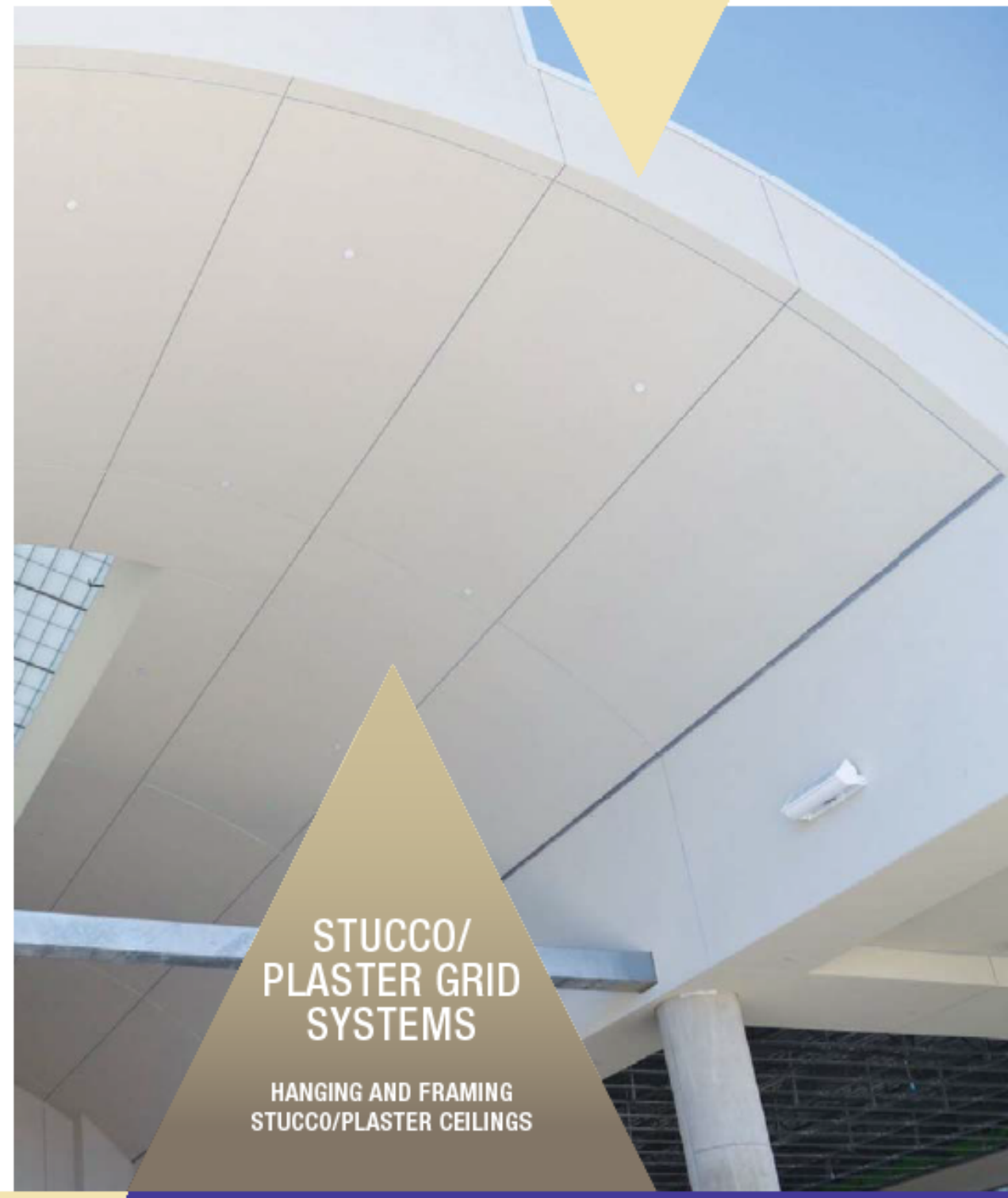
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A-114



**STUCCO/
PLASTER GRID
SYSTEMS**

HANGING AND FRAMING
STUCCO/PLASTER CEILINGS

Inspiring Great Spaces®



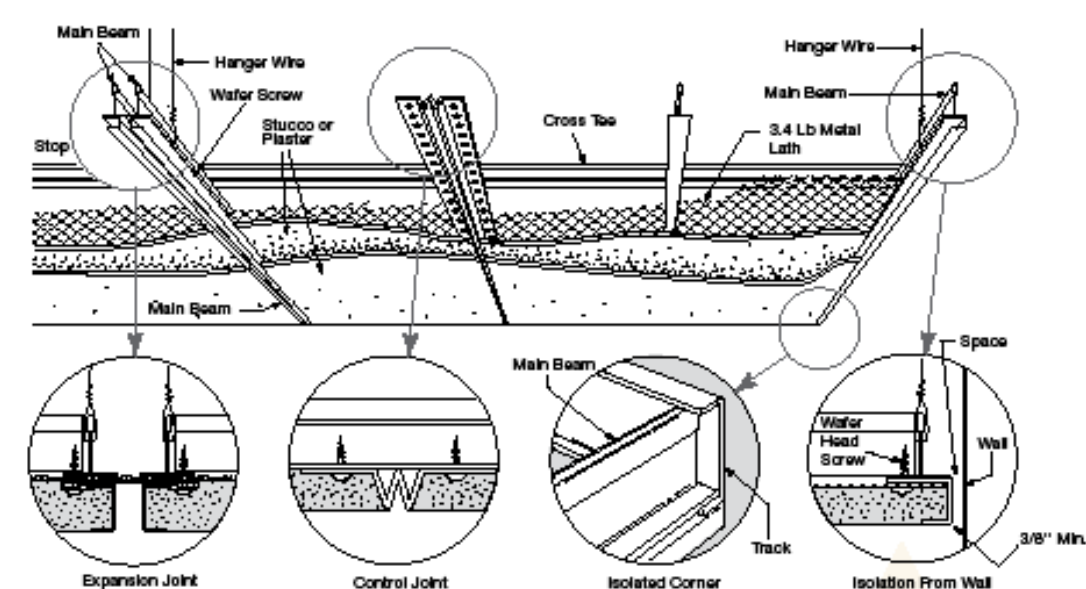
**STUCCO/PLASTER
INSTALLATION AND DETAILS**

STUCCO/PLASTER GRID SUSPENSION INSTALLATION

1. Install the main beams with 9-gauge wires. Space main beams 36" on center. Hanger wire and compression post spacing as required for specific wind load and plenum depth.
2. Install 3/8" cross tee to required on-center spacing.
3. Isolation at perimeter is mandatory when installing any stucco system. Install perimeter channel molding at wall/ceiling junctions to support base independent of walls. Use main beam at cut cross tee perimeter and galvanized track on main beam perimeter.
4. Install 3.4 Lb. 3/8" galvanized diamond mesh lath with water head sharp point screw to cross tees (use cadmium coated screws on exterior applications). Lath options:
 - a. 3/8", 3.48 flat rib diamond mesh lath 27" x 8'-0"
 - b. 3/8", 3.48 rib diamond mesh lath 27" x 8'-0"
 - c. 3/8", 3.48 high back rib diamond mesh lath 27" x 8'-0"
 - d. 3/8", 3.48 paper back diamond mesh lath 27" x 8'-0"
5. Expansion Joints - Installed in accordance with Metal Lath/Steel Framing Association Specifications/Standards.
6. Control Joints - Installed in accordance with Metal Lath/Steel Framing Association Specifications/Standards.
7. Plaster stops, grooves, and corner pieces are attached to system with water head screws and/or 1/8 gauge tie wire.
8. Plaster or stucco mixture and thickness to be in accordance with manufacturer's recommendations and applied: ASTM C842 - For Gypsum Plaster; ASTM C926 - For Portland Cement-based Plaster.
9. For exterior application use steel studs for vertical bracing (see page 10 for wind load).

For further information, contact your local representative or TechLine at 877 276-7876.

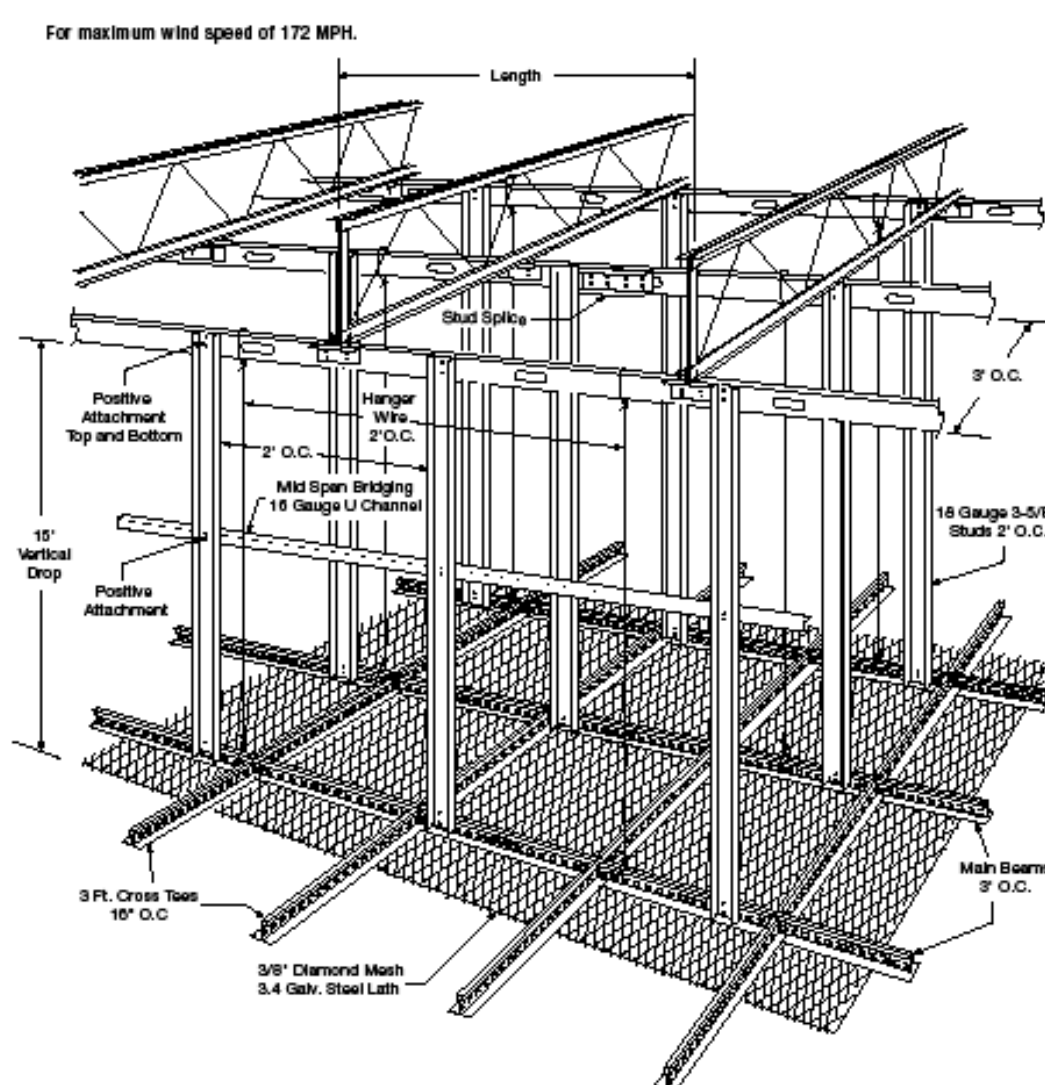
DETAILS OF STUCCO/PLASTER SYSTEMS



For more information, call 877 276-7876 7

**WIND LOAD
BRACING**

EXTERIOR WIND LOAD BRACING TO METAL BAR JOISTS



Notes:

1. 16-Gauge CRC Channel Bracing required at Mid Span for 10' - 15' vertical drop.
2. Positive Attachment top and bottom.
3. 18-Gauge 3-5/8" studs 2' O.C.
4. Main Beams 3' O.C. / Cross Tees 18" O.C. 3' long.
5. #9 Hanger Wire

For more information, call 877 276-7876 13

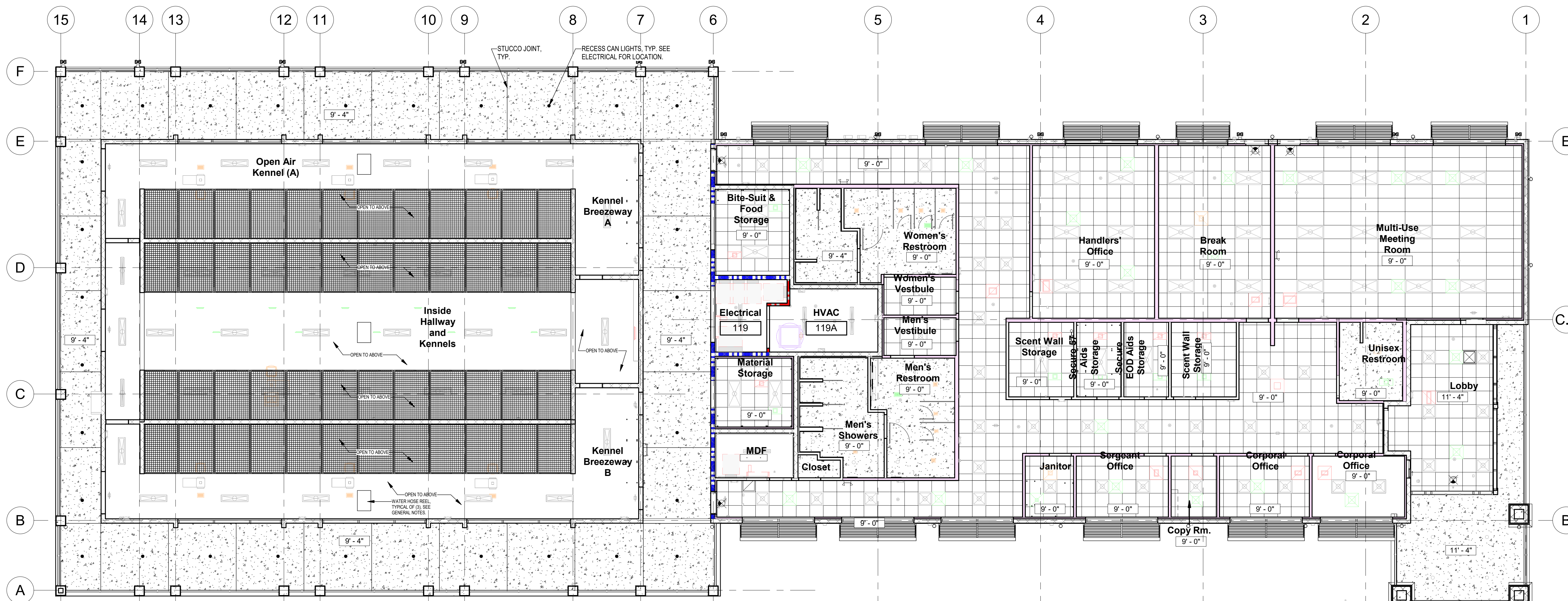
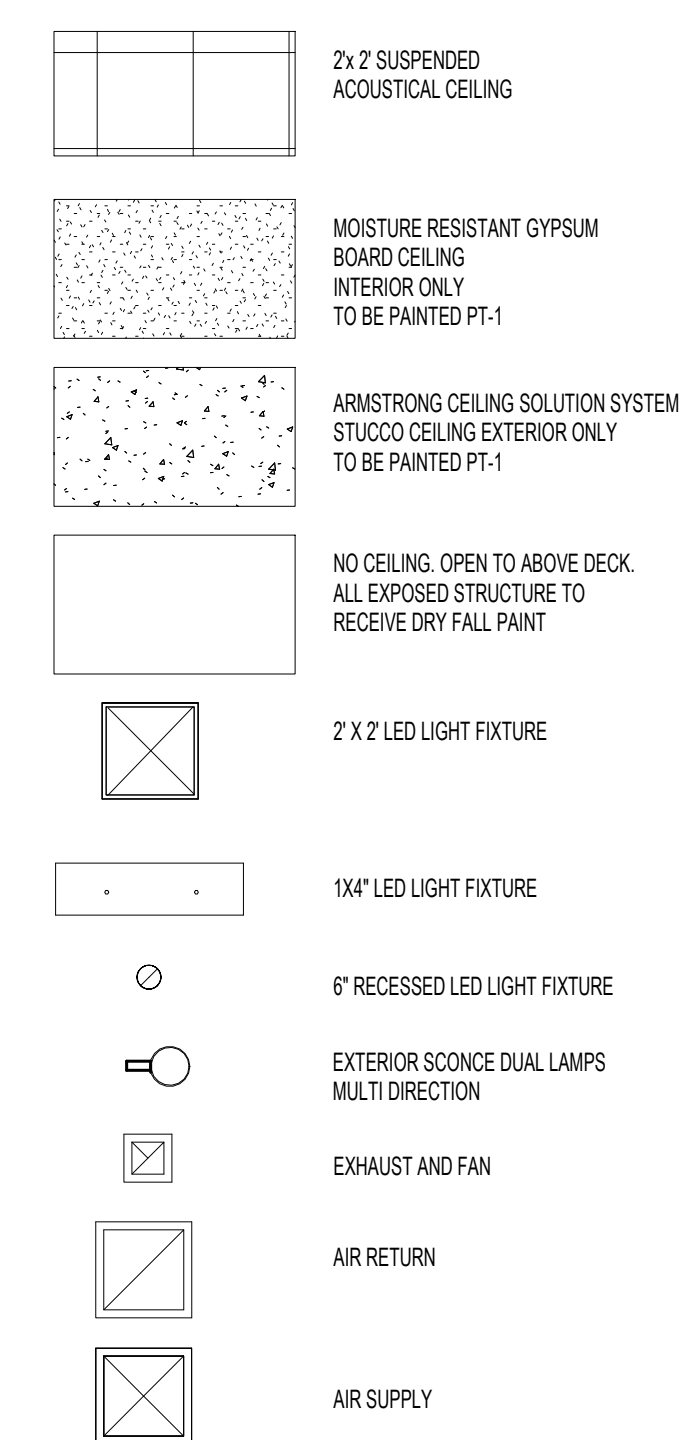
CEILING PLAN NOTES:

1. SHOULD THE GENERAL CONTRACTOR FIND ANY DISCREPANCIES, OMISSIONS, AMBIGUITIES, OR CONFLICTS IN THE DOCUMENTS THEY SHOULD BRING TO THE ATTENTION OF THE ARCHITECT BEFORE ORDERING MATERIALS AND/OR PROCEEDING WITH ANY WORK IN QUESTION.
2. ALL CEILING PLAN HEIGHTS SHALL BE INDICATED ON PLAN.
3. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPES AND OTHER INFORMATION.
4. REFER TO MECHANICAL AND FIRE PROTECTION DRAWINGS FOR ALL CEILING DEVICE LOCATIONS AND TYPES.
5. LIGHT FIXTURES SHALL BE CENTERED IN PASSAGES UNLESS OTHERWISE NOTATED AND DIMENSIONED ON PLANS.
6. LIGHT FIXTURES IN ROOMS OR AREAS CONTAINING ONLY ONE LIGHT FIXTURE SHALL BE CENTERED IN ROOM OR AREA IN BOTH DIRECTIONS.
7. REFER TO CEILING PLAN AND CEILING DETAILS PLANS FOR ALL PAINT COLORWAYS AND LOCATIONS.

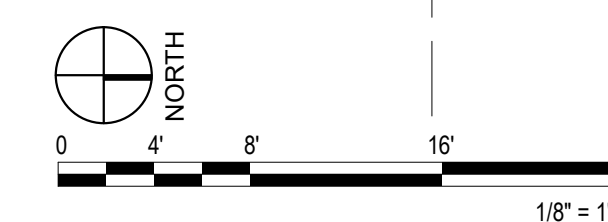
GENERAL NOTES:

- REFER TO ELECTRICAL & MECHANICAL DRAWINGS FOR LOCATION OF CEILING FIXTURES. ALL ELEMENTS SHOWN ON ARCHITECTURAL ARE FOR REFERENCE ONLY AND LOCATIONS SHALL BE AS PER ELECTRICAL AND MECHANICAL DRAWINGS.
- CEILING GRID SHOWN FOR REFERENCE ONLY. CONTRACTOR TO COORDINATE WITH THE ALIGNMENT SO AS TO KEEP CONDITIONS GRID LINES AS SYMMETRICAL AS POSSIBLE.
- CONTRACTOR TO ALIGN START PATTERN OF GRID TO MINIMIZE SMALLER SIZES OF CEILING GRID.
- PROVIDE RETRACTABLE HOSE WATER HOSE REELS WITH BOOSTER PUMPS \$7,500 ALLOWANCE.

CEILING PLAN LEGEND



1 OVERALL REFLECTED CEILING PLAN
1/8" = 1'-0"



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OVERALL REFLECTED CEILING PLAN

#	ISSUED FOR	DATE
1	PERMIT SET	2024-06-11
2	ADDENDUM 2	2024-08-02

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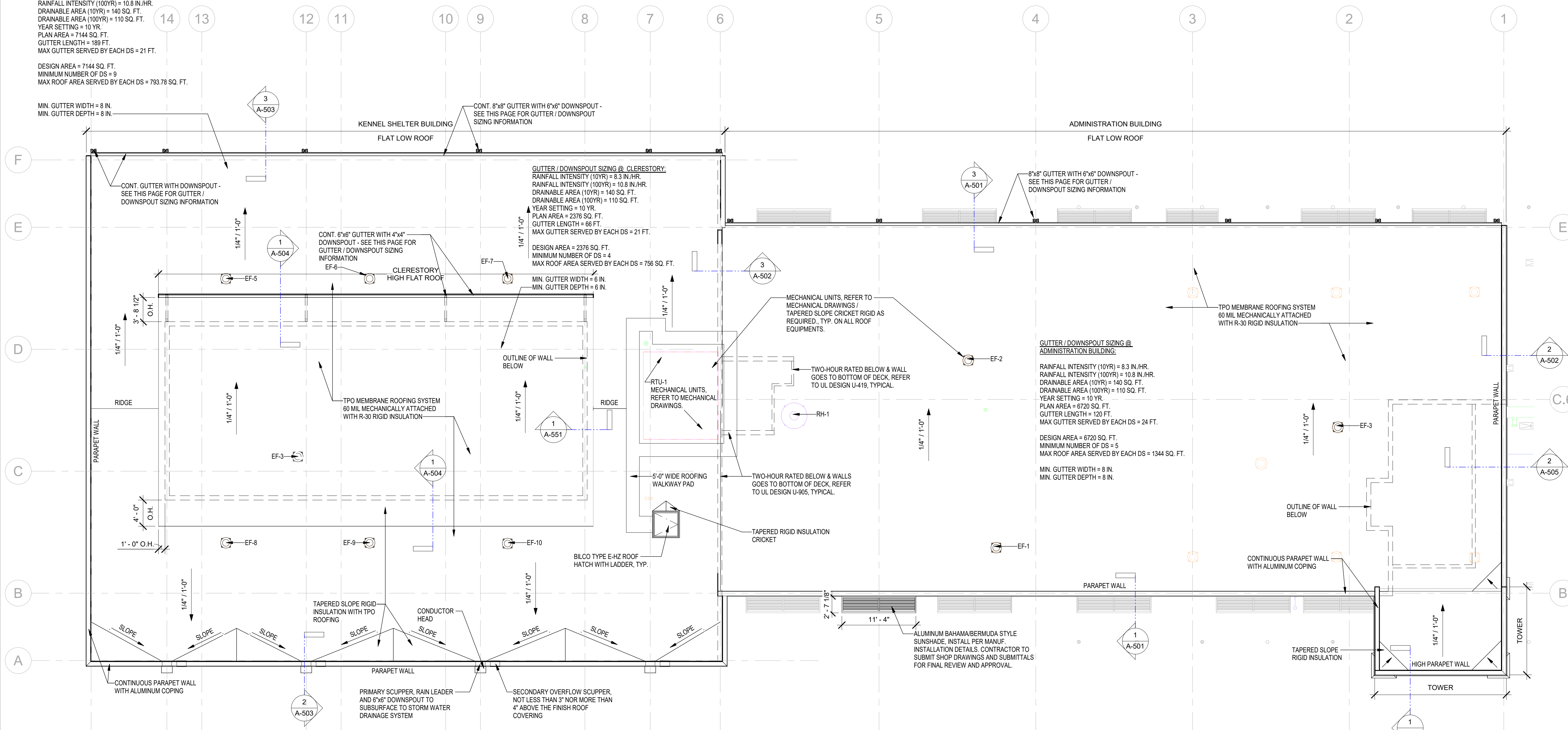
A-120

FLORIDA PRODUCT APPROVAL NUMBERS			
ELEMENT	MANUFACTURER	APPROVAL NUMBER	REMARKS
ROOFING (TPO MEMBRANE)	EVERGUARD TPO ROOFING SYSTEM	FL# 5293.1	OR EQUAL
ROOF HATCH	THE BILCO COMPANY	NOA # 11-0722.10	TYPE F-HZ SIZE 36"x36" OR EQUAL

GUTTER / DOWNSPOUT SIZING @ KENNEL BUILDING:
 RAINFALL INTENSITY (100YR) = 8.3 IN./HR.
 RAINFALL INTENSITY (100YR) = 10.8 IN./HR.
 DRAINABLE AREA (100YR) = 140 SQ. FT.
 DRAINABLE AREA (100YR) = 110 SQ. FT.
 YEAR SETTING = 10 YR.
 PLAN AREA = 7144 SQ. FT.
 GUTTER LENGTH = 189 FT.
 MAX GUTTER SERVED BY EACH DS = 21 FT.

DESIGN AREA = 7144 SQ. FT.
 MINIMUM NUMBER OF DS = 9
 MAX ROOF AREA SERVED BY EACH DS = 793.78 SQ. FT.

MIN. GUTTER WIDTH = 8 IN.
 MIN. GUTTER DEPTH = 8 IN.



1 OVERALL ROOF PLAN
 1/8" = 1'-0"

NOTES:
 SEE DRAWINGS A-550, A-551 AND A-552 FOR STANDARD ROOF DETAILS.

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ROOF PLAN

#	ISSUED FOR	DATE
1	PERMIT SET	2024-06-11
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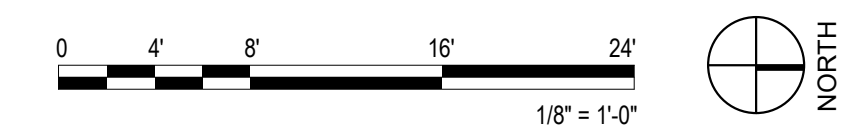
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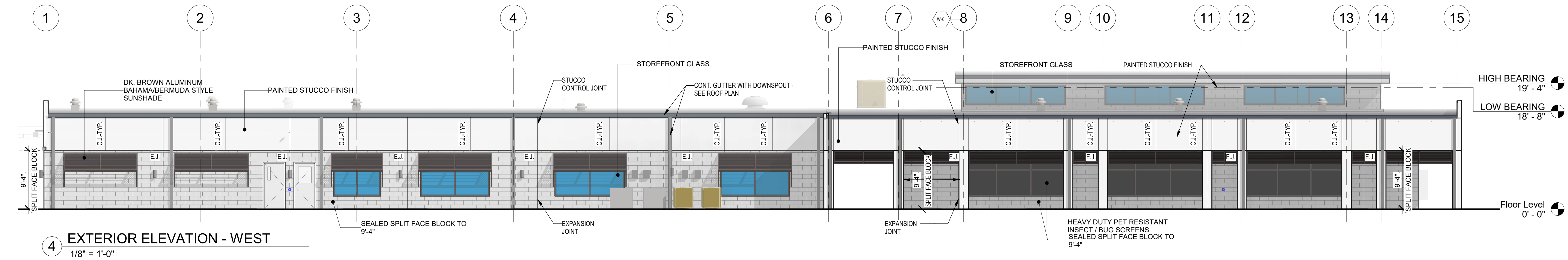
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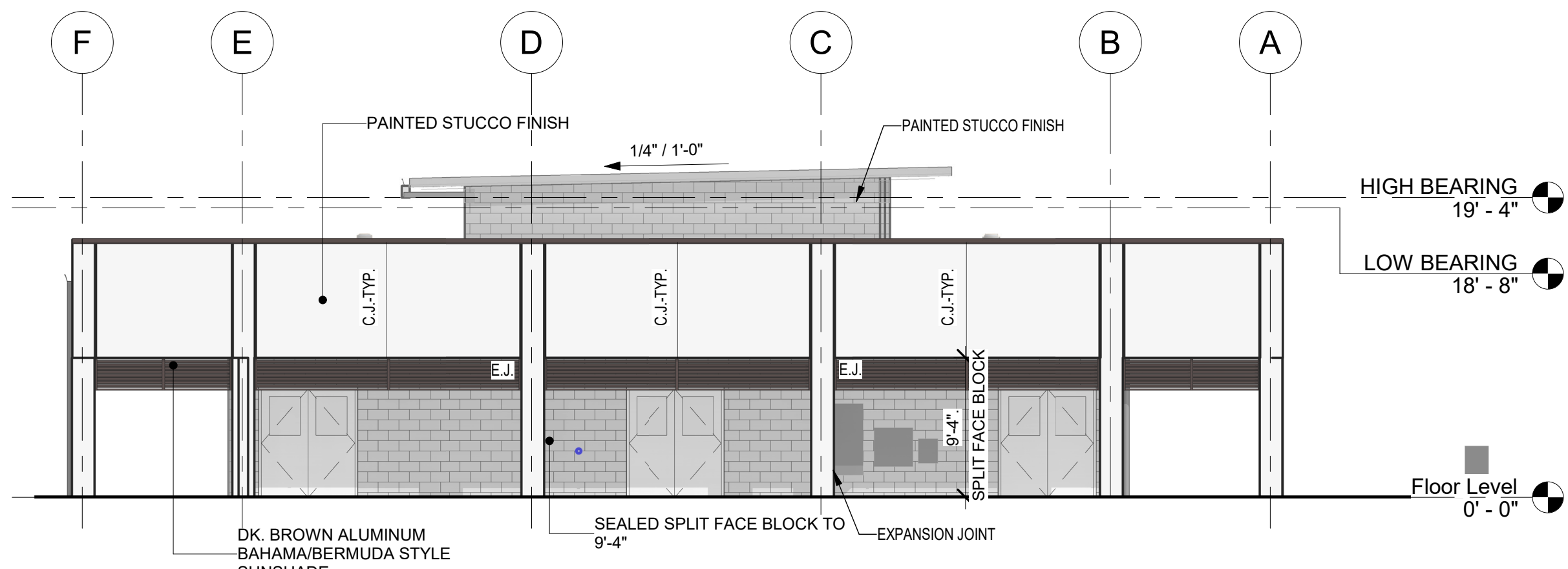
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A-150

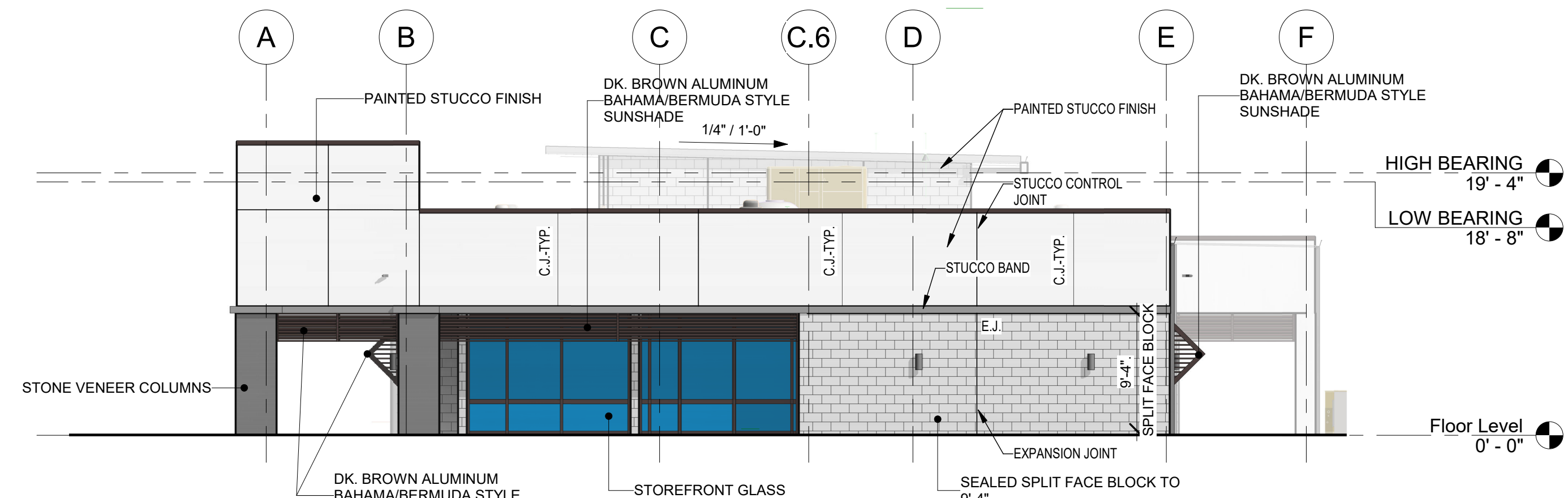




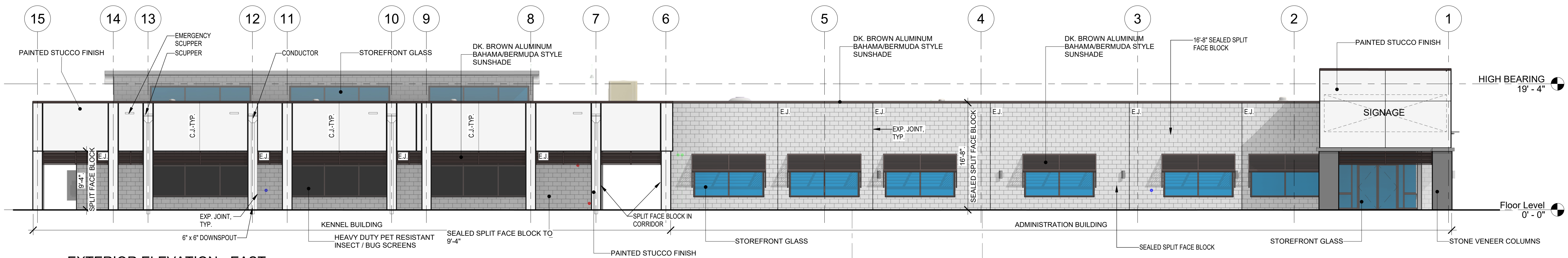
4 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"



3 EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"



2 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"



1 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"

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EXTERIOR ELEVATIONS

#	ISSUED FOR	DATE
1	PERMIT SET	2024-05-11
2	ADDENDUM 2	2024-08-02

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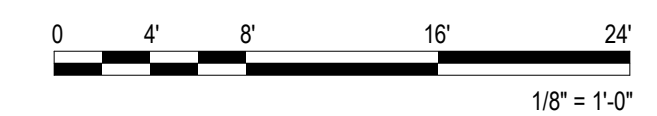
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A-201



#	ISSUED FOR	DATE
1	PERMIT SET	2024-06-11
2	ADDENDUM 2	2024-08-02

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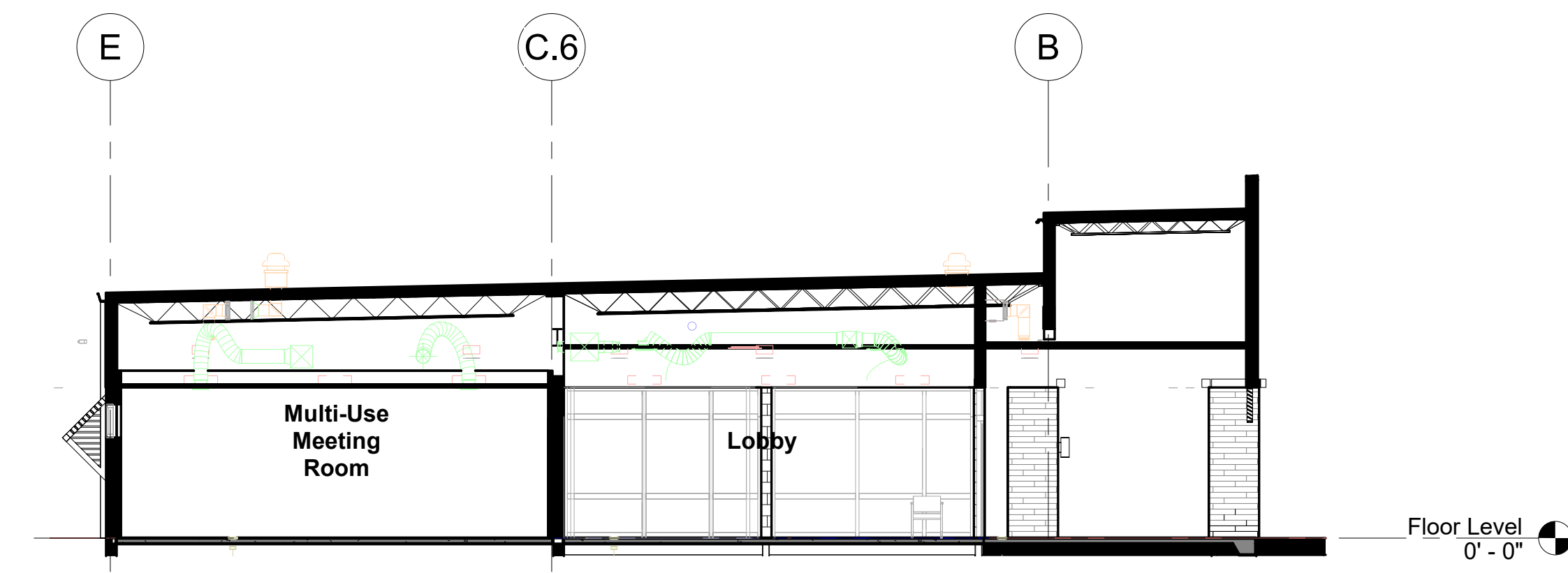
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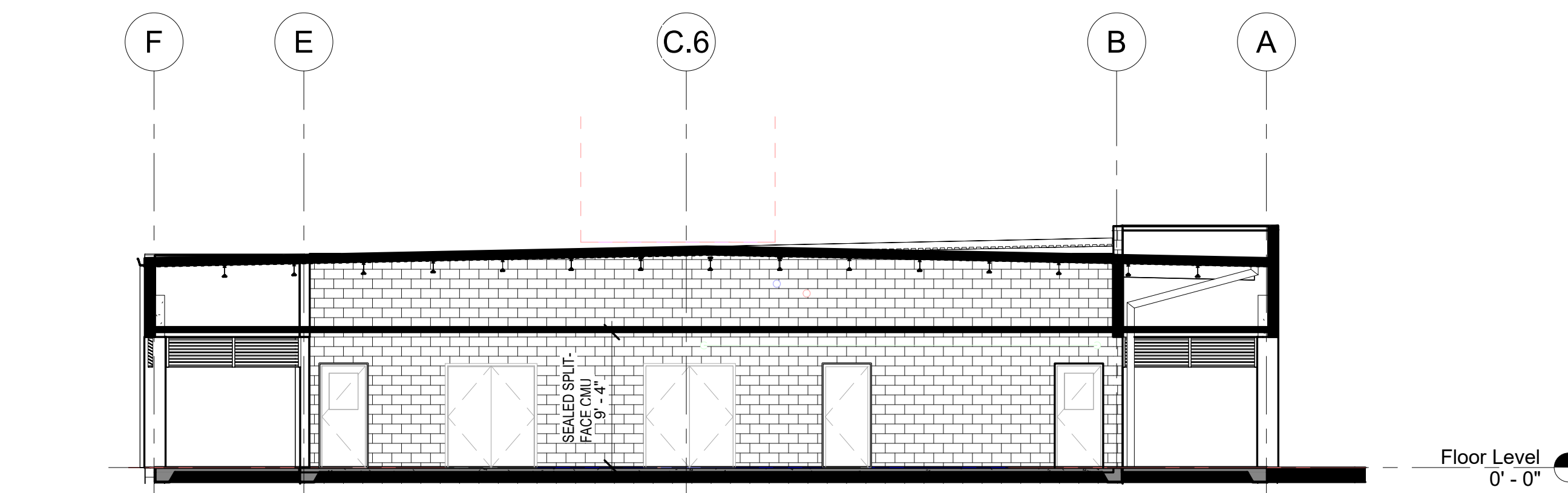
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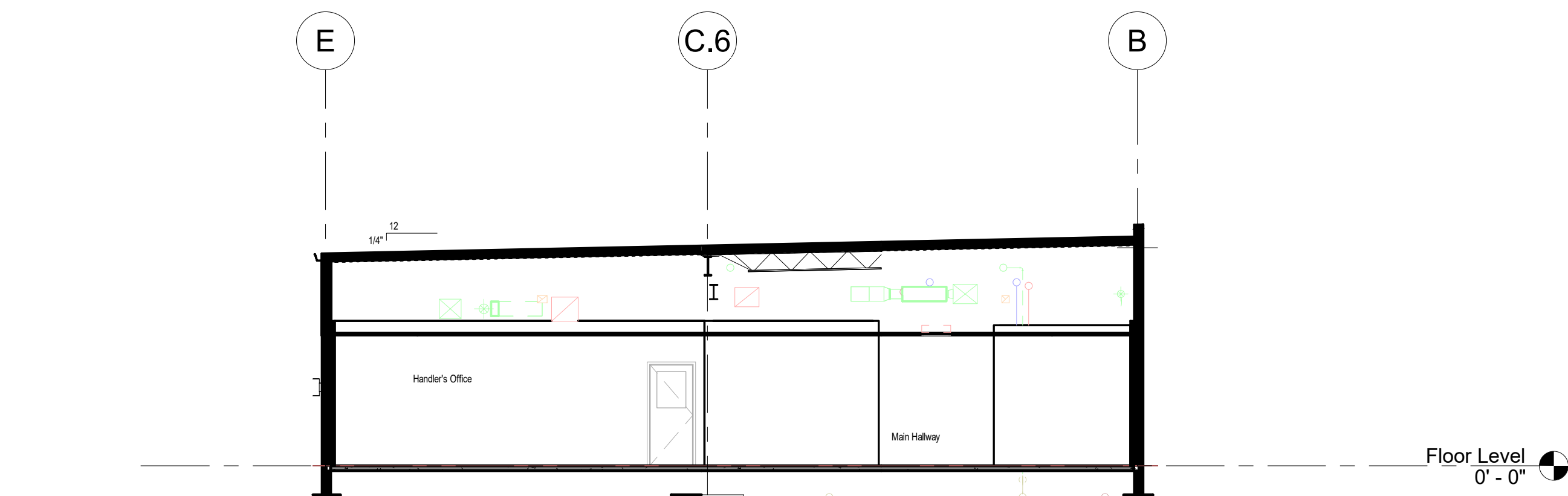
A-301



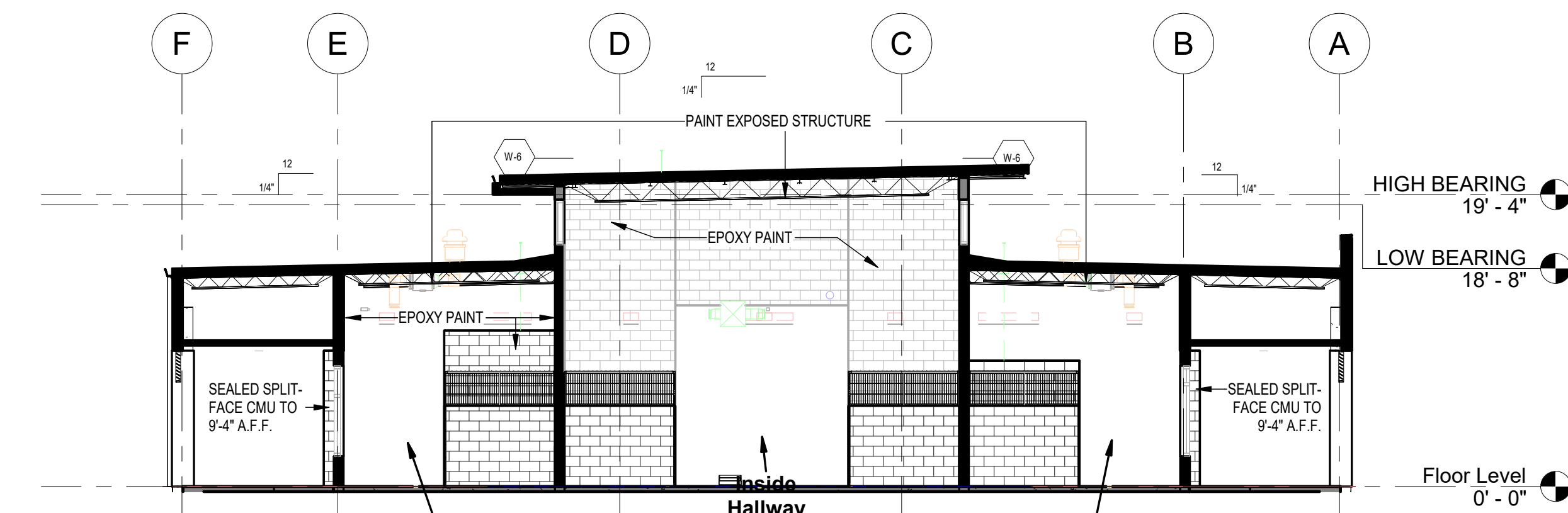
5 BUILDING SECTION
1/8" = 1'-0"



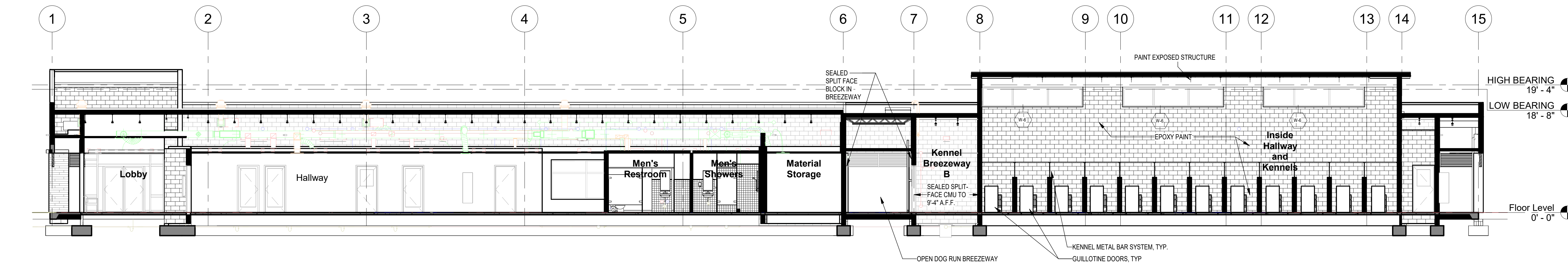
3 BUILDING SECTION: MAIN BREEZEWAY FACING ADMIN
1/8" = 1'-0"



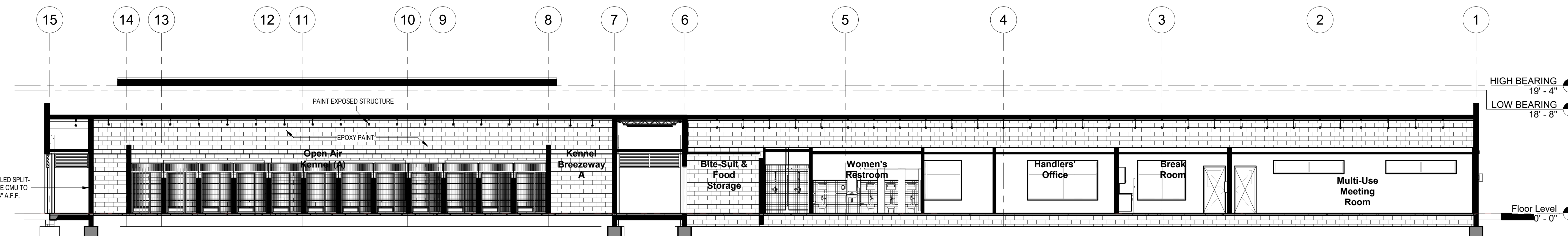
6 BUILDING SECTION: ADMIN. HALLWAY
1/8" = 1'-0"



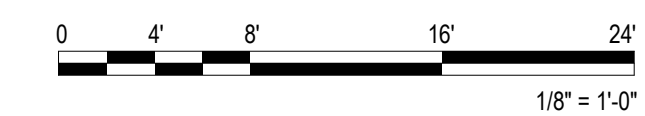
4 BUILDING SECTION
1/8" = 1'-0"

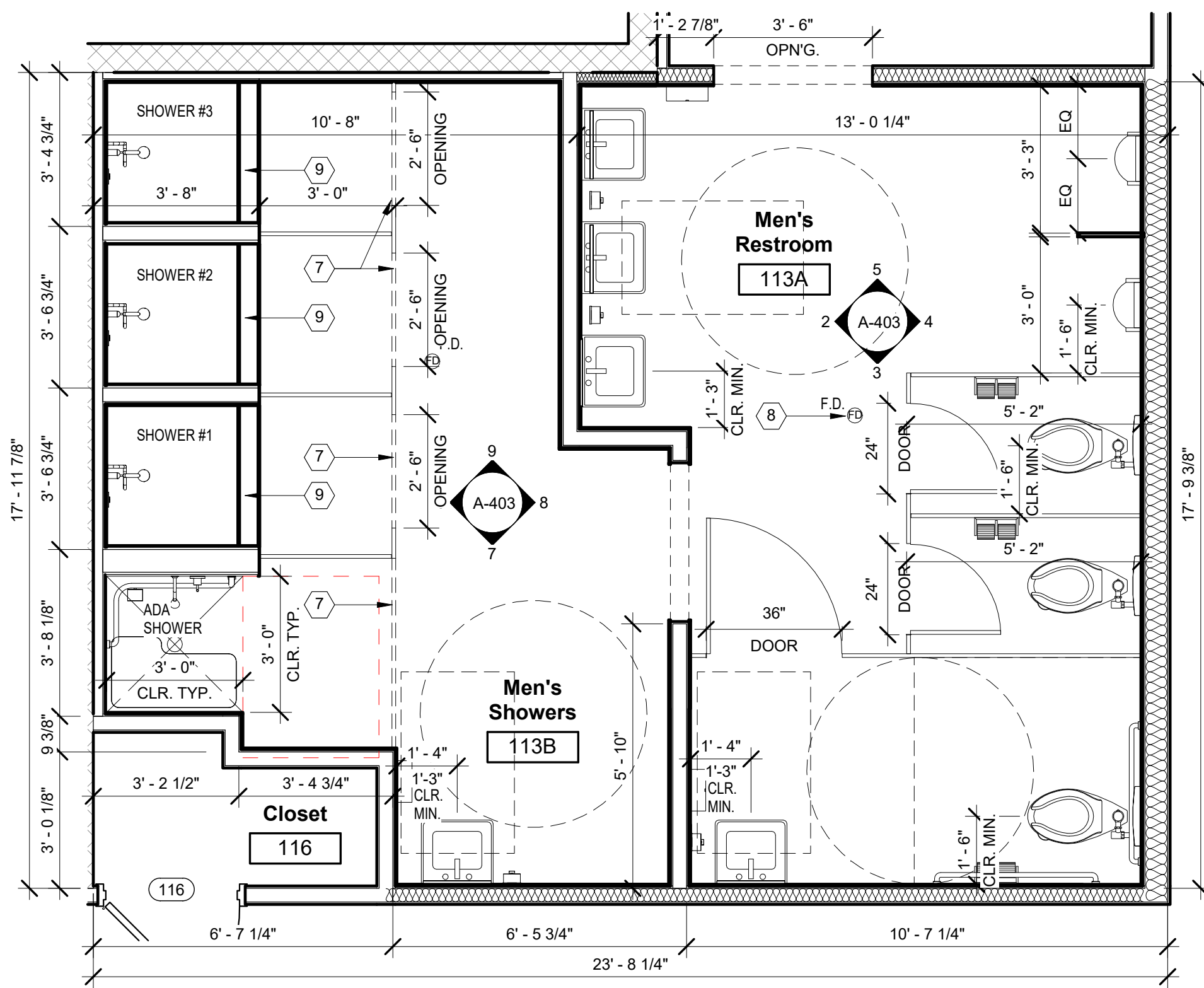


2 BUILDING SECTION: ALONG LONG HALLWAY
1/8" = 1'-0"

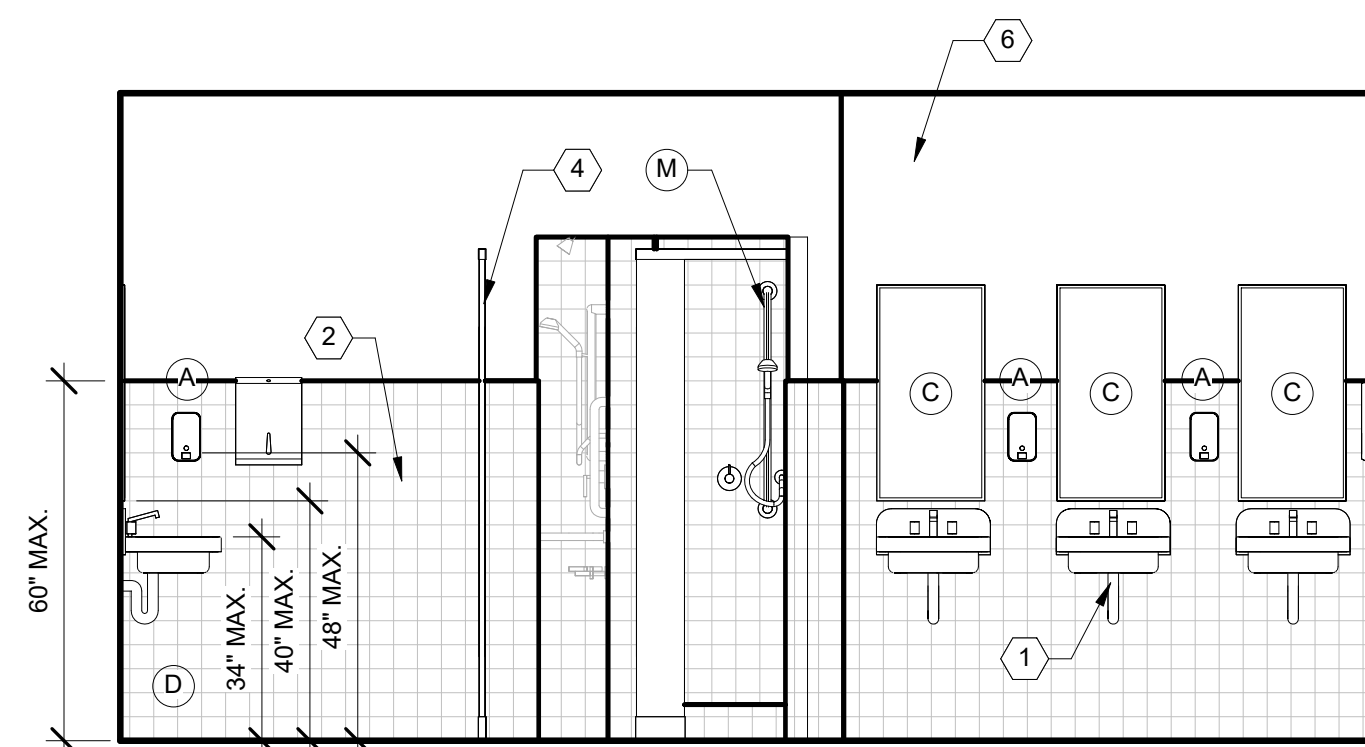


1 BUILDING SECTION
1/8" = 1'-0"

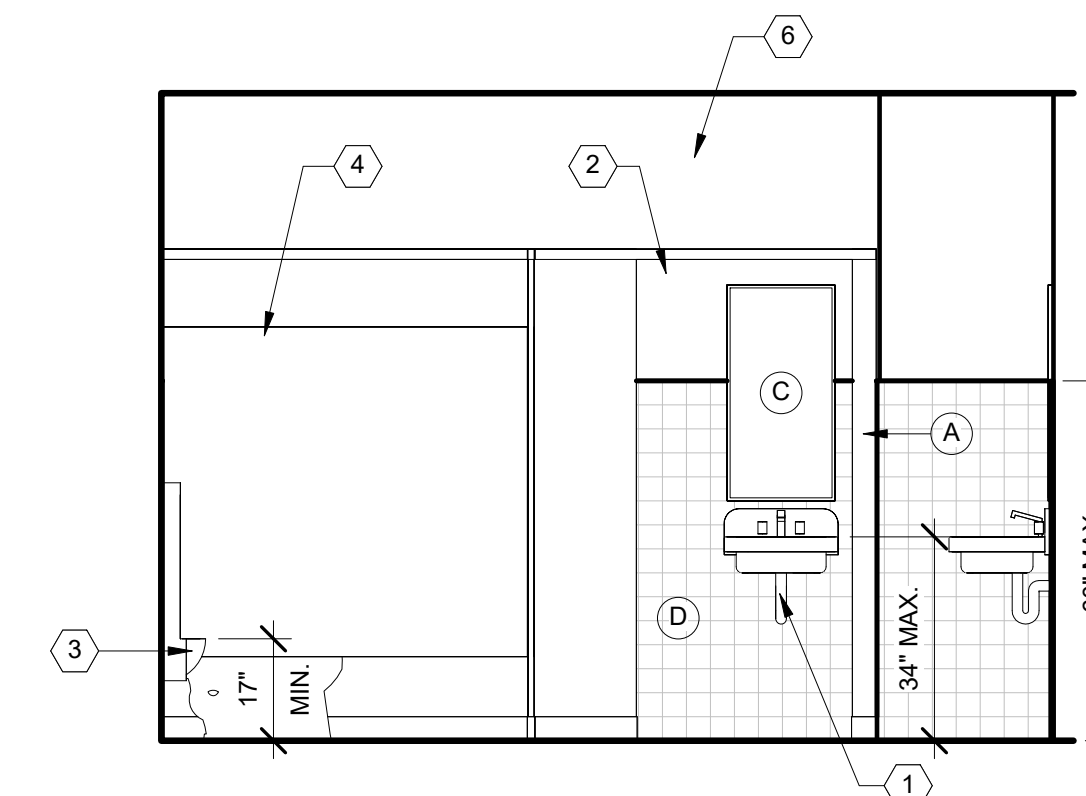




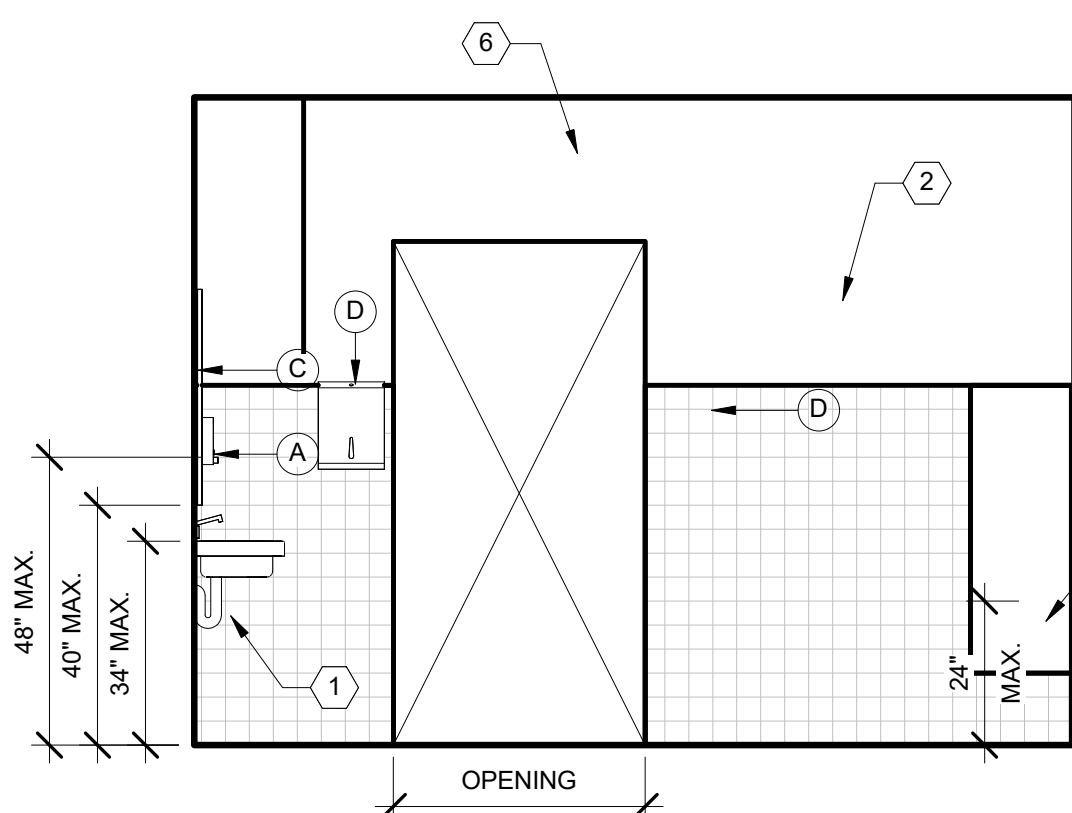
1 ENLARGED FLOOR PLAN - MEN'S RESTROOM
3/8" = 1'-0"



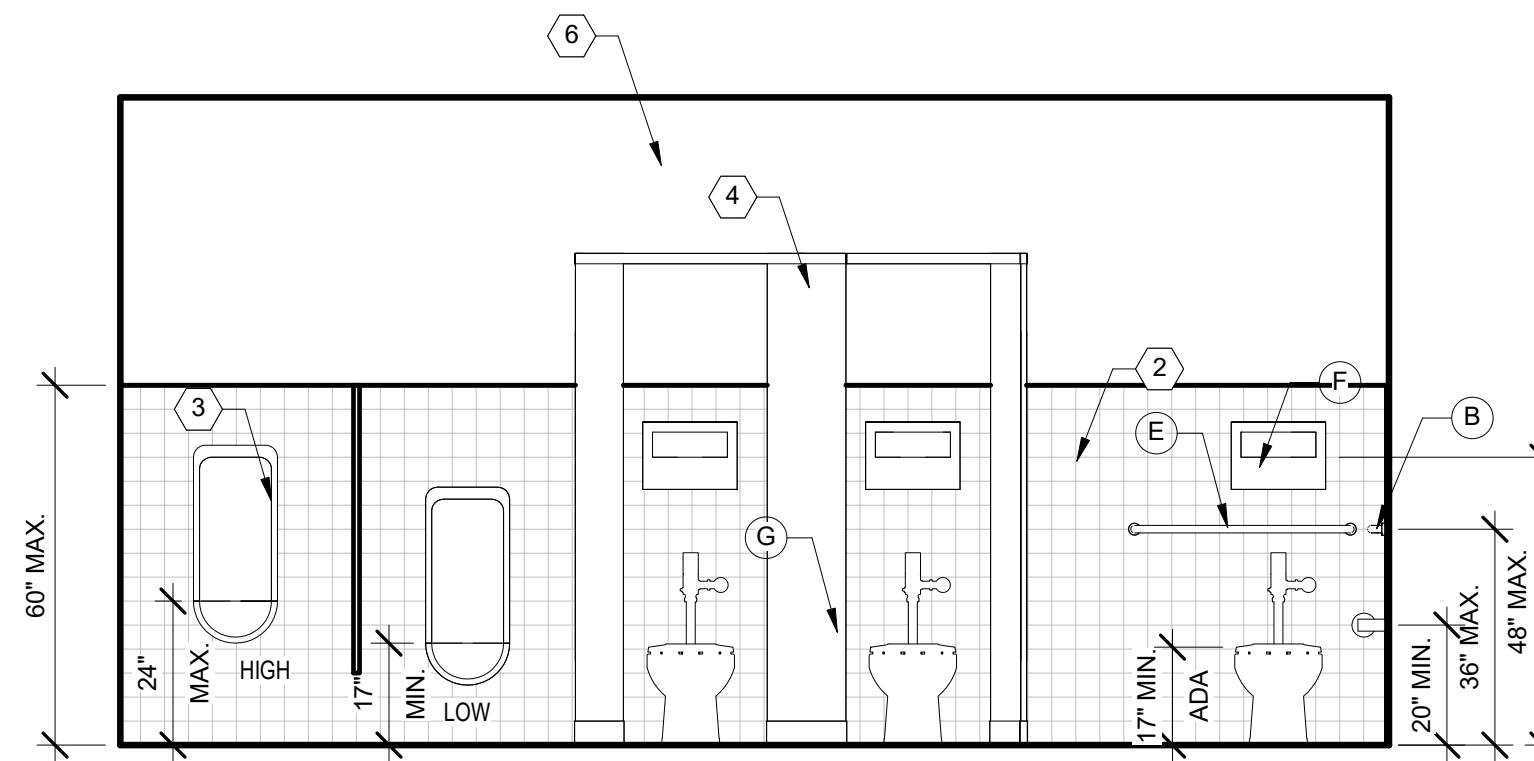
2 ELEVATION - MEN'S RESTROOM
3/8" = 1'-0"



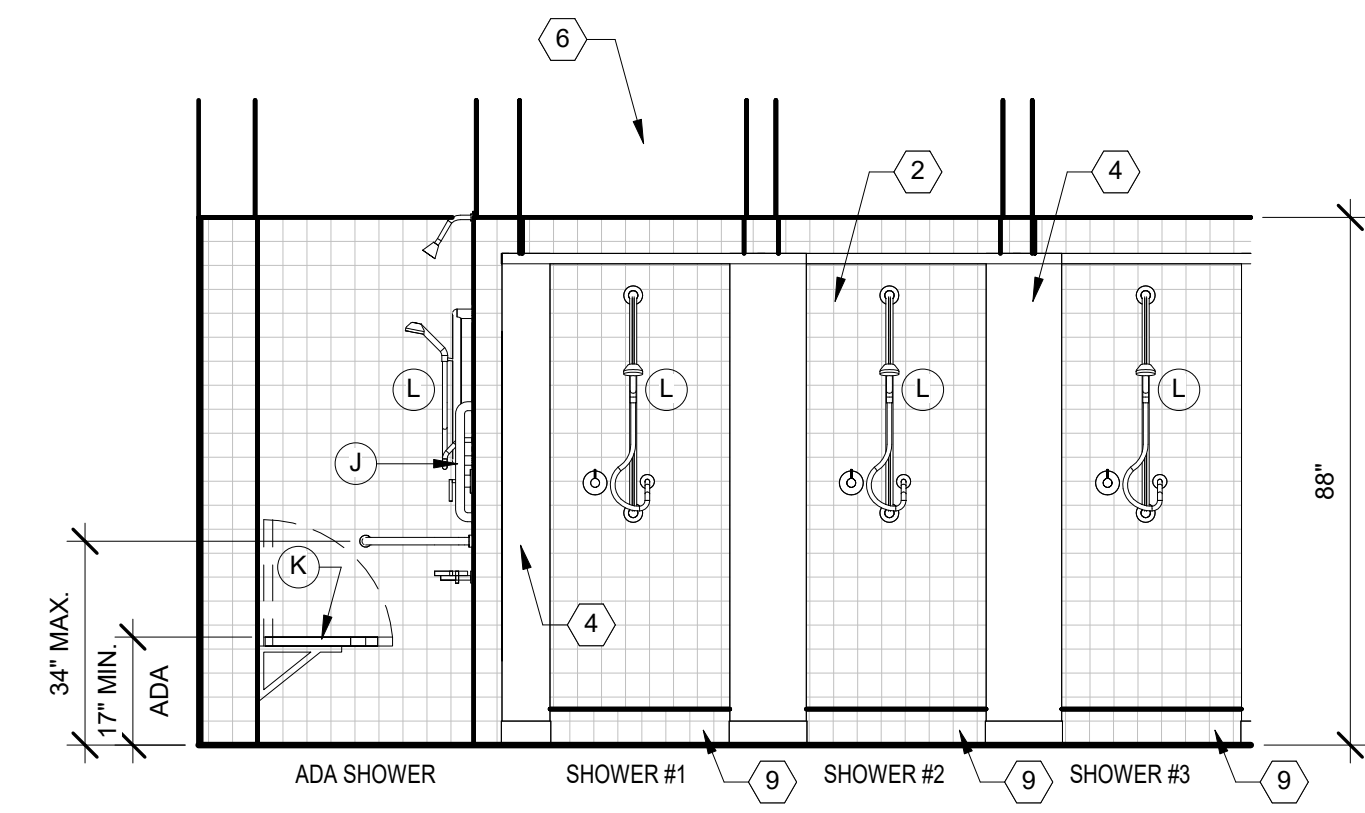
3 ELEVATION - MEN'S RESTROOM
3/8" = 1'-0"



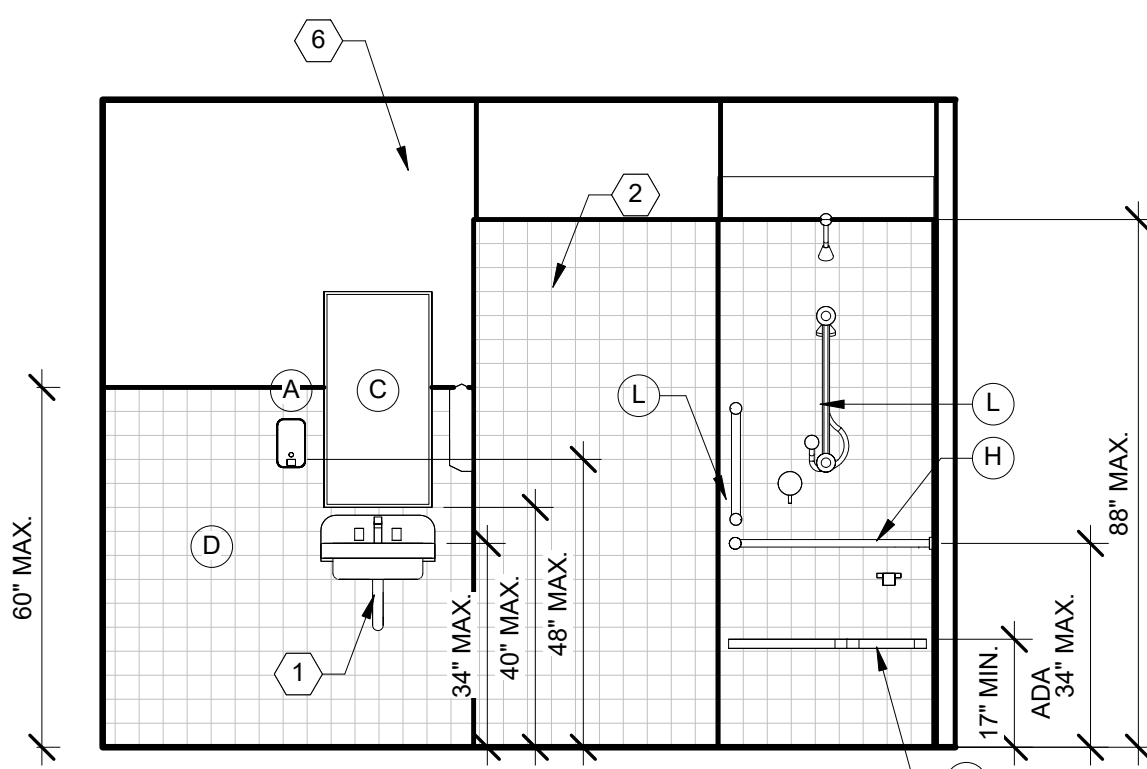
5 ELEVATION - MEN'S RESTROOM
3/8" = 1'-0"



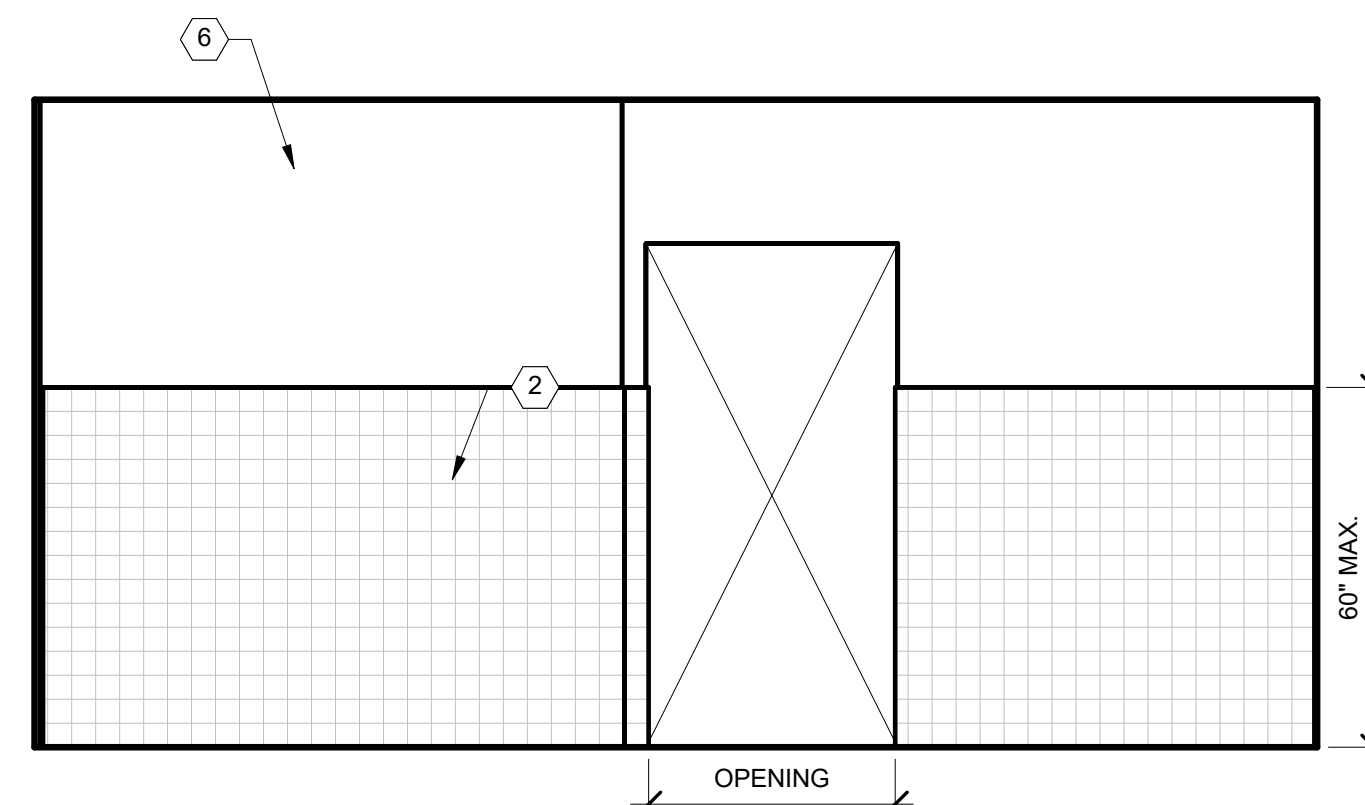
4 ELEVATION - MEN'S RESTROOM
3/8" = 1'-0"



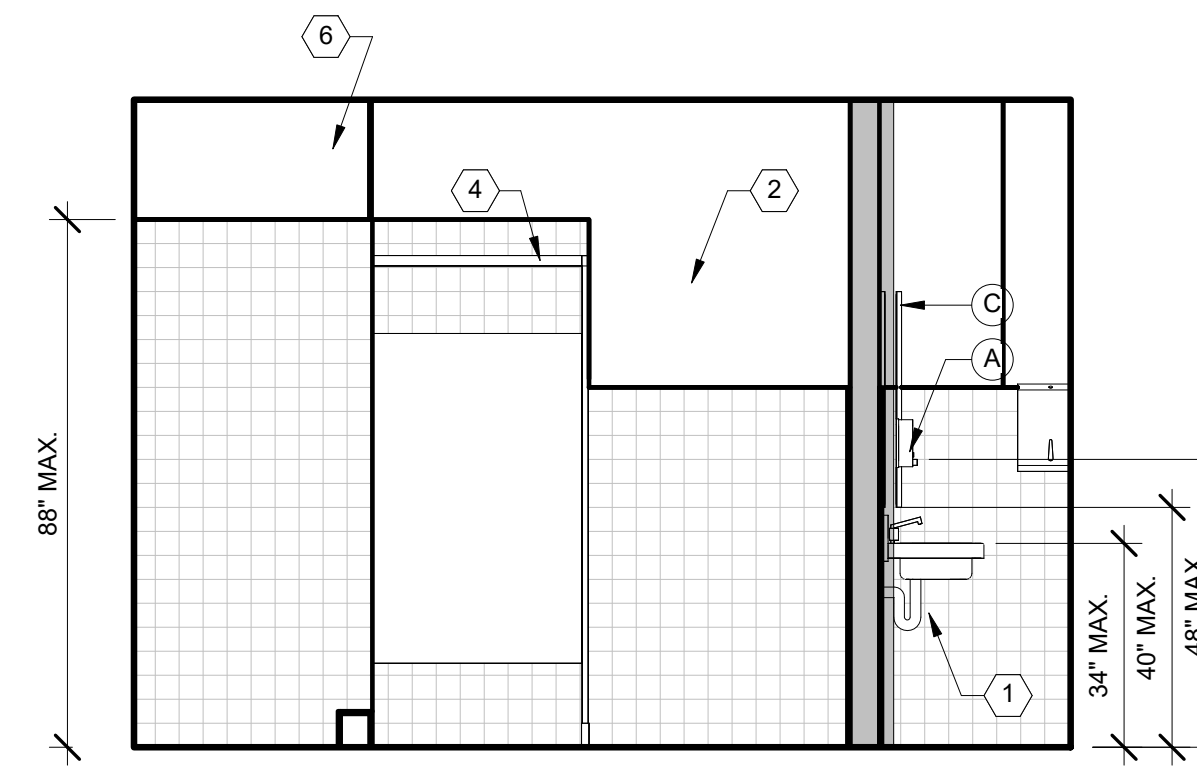
6 MENS SHOWER ELEVATION
3/8" = 1'-0"



7 MENS SHOWER ELEVATION
3/8" = 1'-0"



8 MENS SHOWER ELEVATION
3/8" = 1'-0"



9 MENS SHOWER ELEVATION
3/8" = 1'-0"

GENERAL SHEET NOTES:

- GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS & NOTIFY ARCHITECT OF ANY CONFLICT PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE BLOCKING FOR INSTALLATION OF ACCESSORIES, AS REQUIRED.
- ALL EQUIPMENT SHALL BE ADA COMPLIANT. PROVIDE ACCESSORIES SUBMITTAL & CUT SHEET FOR OWNER'S APPROVAL.
- WALL TYPE LEGEND, REFER TO SHEET G-500 & G-501
- REFER TO ELECTRICAL, MECHANICAL AND PLUMBING / FIRE PROTECTION FOR ADDITIONAL INFORMATION, TYPICAL.
- TOILET PARTITIONS SHALL BE EQUIVALENT TO: BOBRICK FLOOR MOUNTED OVERHEAD BRACED, WITH PLASTIC LAMINATED PANELS AND DOOR
- TILE TO BE EQUIVALENT TO:
FLOOR TILE: 12" x 12" DALTILE VOLUME 1.0
PORCELAIN TILE SERIES
SHOWER WALL TILE: DALTILE COLOR WHEEL
CLASSIC CERAMIC TILE 4" x 4" WITH 4" x 4"
BULLNOSE
SHOWER FLOOR TILE: DALTILE KEYSTONE
SERIES CERAMIC 2" X 2"

SHEET NOTES

- WRAP PLUMBING WITH HANDY SHIELD SAFETY COVER
- CERAMIC TILE WALL FINISH
- WALL MOUNTED URINAL, REFER TO PLUMBING DRAWINGS
- PLASTIC LAMINATE TOILET PARTITION
- BASE, REFER TO SCHEDULES
- MOISTURE RESISTANCE PAINTED GYPSUM BOARD WITH EPOXY PAINT.
- SHOWER CURTAIN ROD WITH CURTAIN
- FLOOR DRAIN, REFER TO PLUMBING DRAWINGS
- 6" HIGH STEP AT SHOWER

TOILET ROOM ACCESSORIES

- SOAP DISPENSER PALMER FIXTURE BULK LIQUID SOAP TRANSPARENT DISPENSER 30 OZ - SD003001 (GRAINGER, GLOBAL INDUSTRIES, ETC.)
- 36" S.S. GRAB BAR, INSTALL PER ADA REQUIREMENTS - BOBRICK B-6806
- 24" WIDE X 36" TALL MIRROR - BOBRICK B-270, SHIM MIRROR AS REQUIRED
- PAPER TOWEL DISPENSER - BOBRICK 4262
- 42" S.S. GRAB BAR, INSTALL PER ADA REQUIREMENTS - BOBRICK B-6806
- TOILET COVER SEAT DISPENSER - BOBRICK B-221
- TOILET TISSUE DISPENSER - ITEM# 3P914 MFR. MODEL# 3P914
- CONTINUOUS 34" HIGH ADA GRAB BAR BOBRICK B6861.99
- (NOT USED)
- 18" S.S. VERTICAL GRAB BAR - BOBRICK B-6806
- REVERSIBLE FOLDING SHOWER SEAT - BOBRICK B-5181
- SHOWER HEAD ASSEMBLY - KOHLER K-22180

#	ISSUED FOR	DATE
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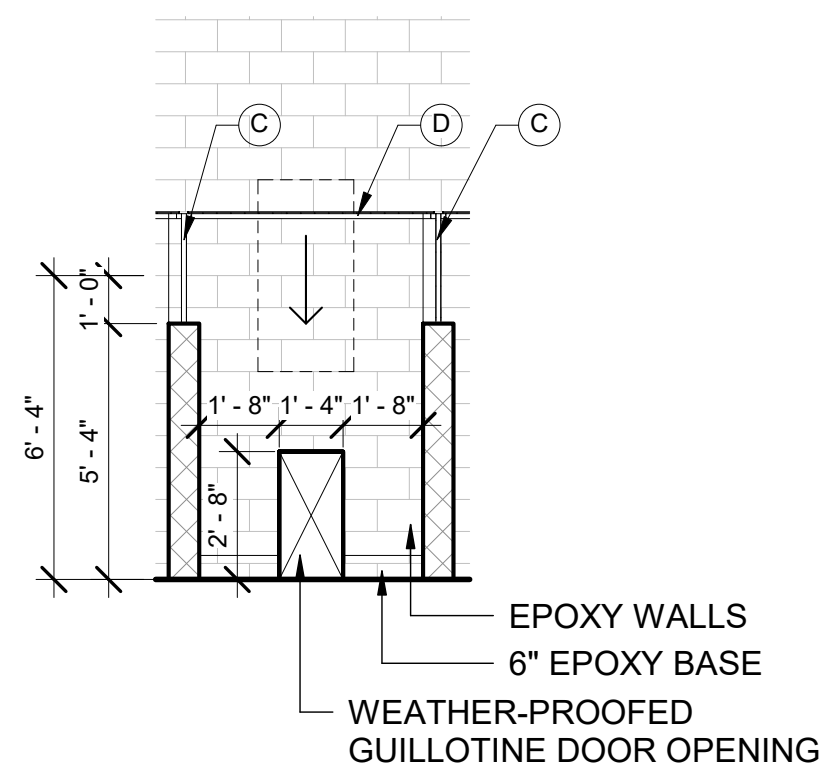
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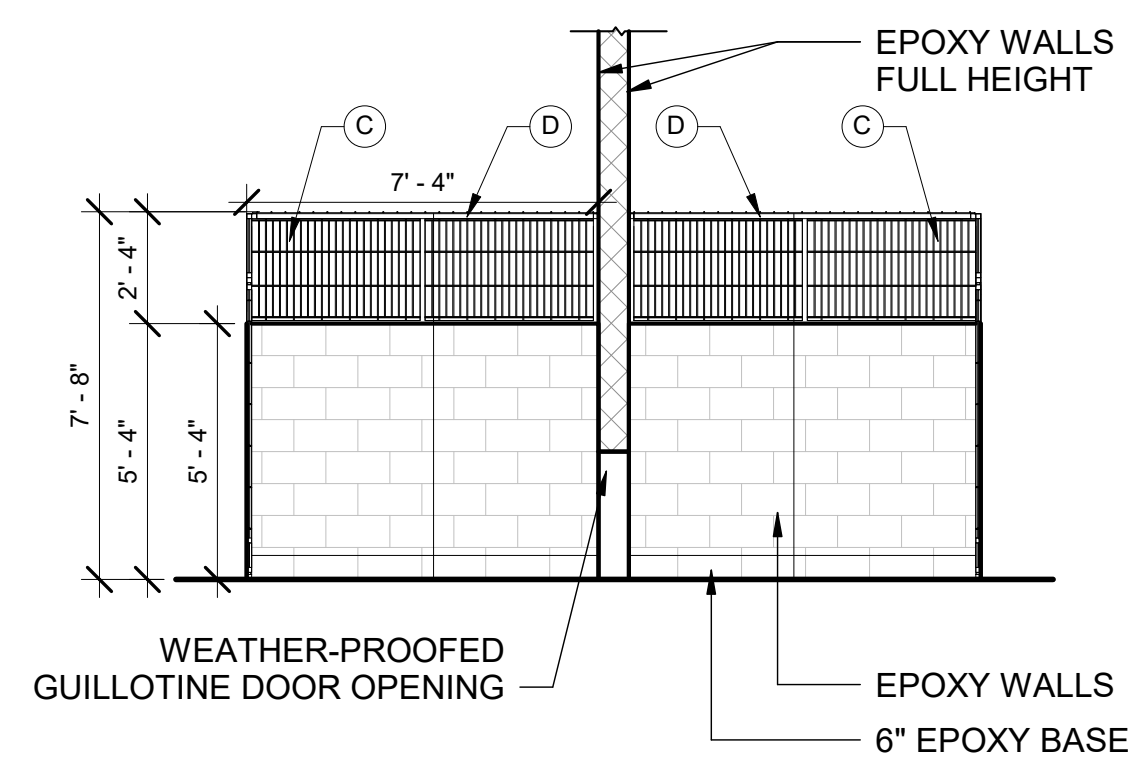
23164.01

KENNEL SYSTEM

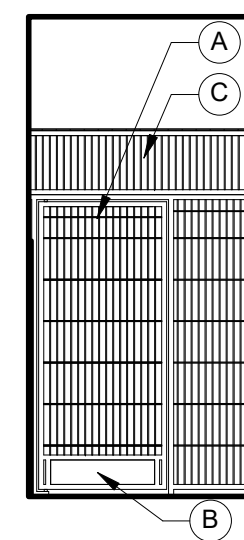
- A. TRISTAR VET - 10xx-KDL-IL, STAINLESS STEEL KENNEL DOOR WITH BANDED RODS, G.C. TO VERIFY R.O. FOR DOOR SYSTEM.
- B. TRISTAR VET - 1036-9F ROTATING BOWL FEEDER, PROVIDE ON KENNEL DOORS IN ROOM 206 ONLY.
- C. TRISTAR VET - 10xx-CVP, STAINLESS STEEL CROSS VENTILATION PANEL, G.C. TO VERIFY SIZES.
- D. TRISTAR VET - 1000-RE STAINLESS STEEL KENNEL COVER.



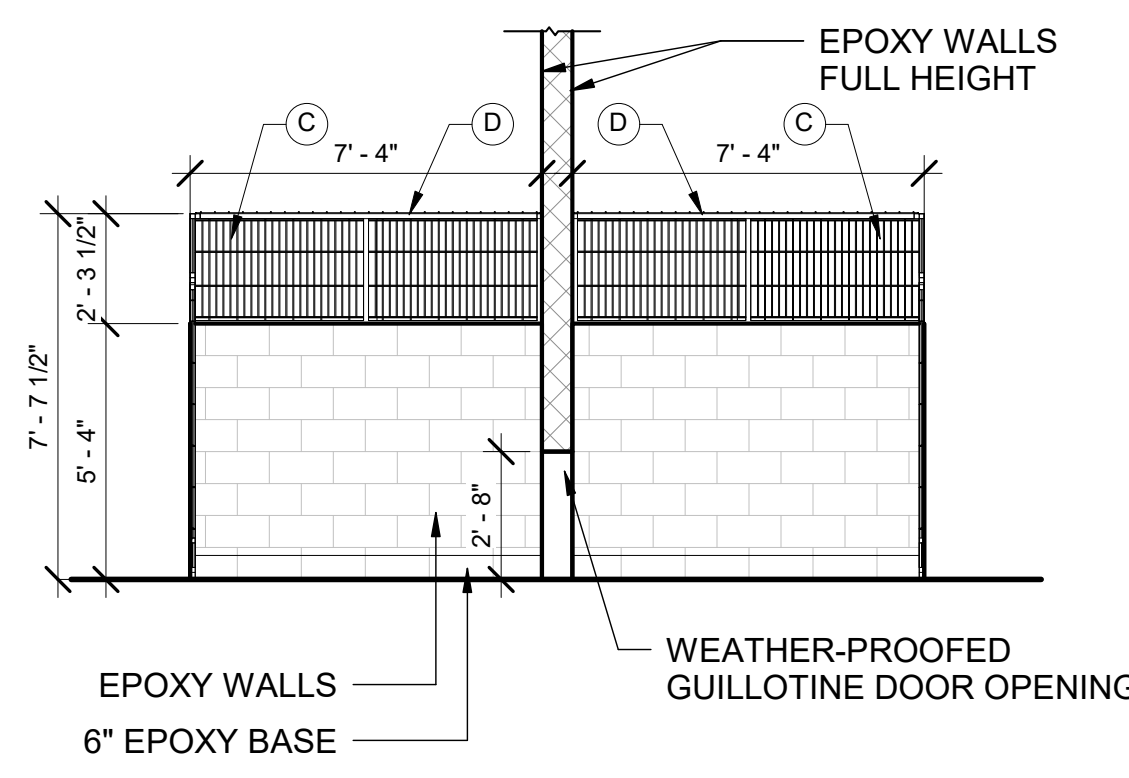
10 KENNEL ELEVATION
1/4" = 1'-0"



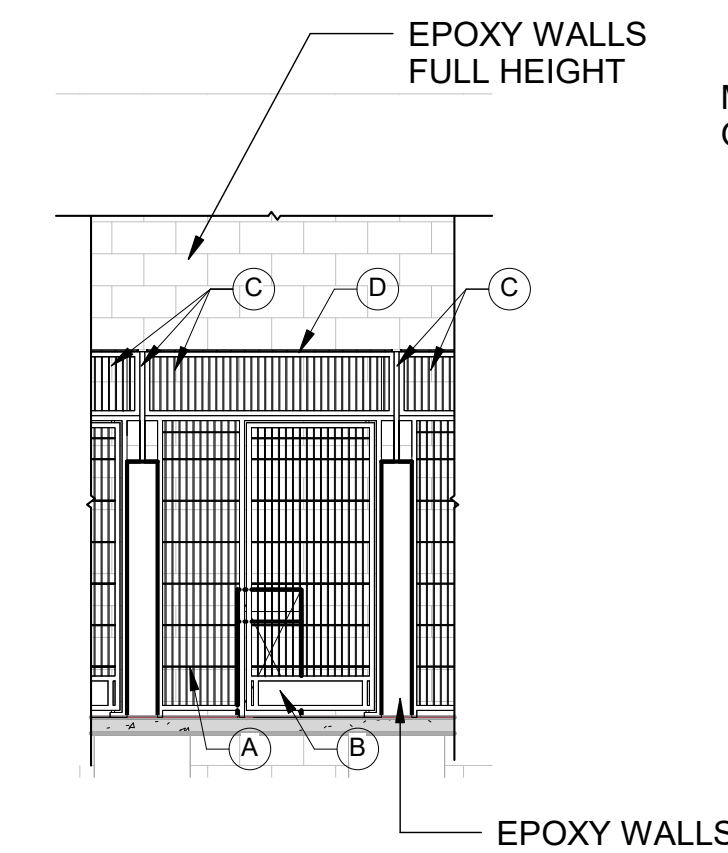
9 KENNEL ELEVATION
1/4" = 1'-0"



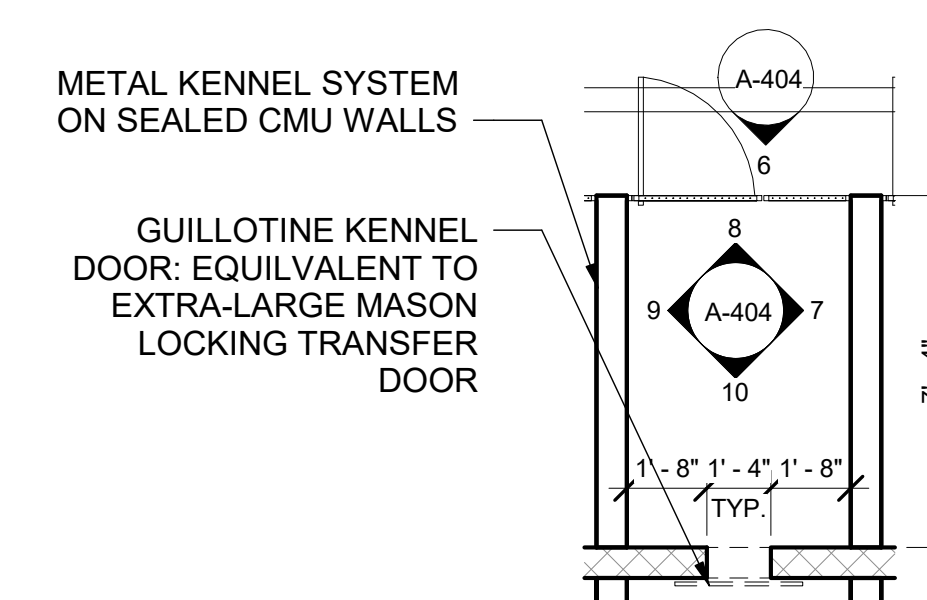
8 KENNEL ELEVATION
1/4" = 1'-0"



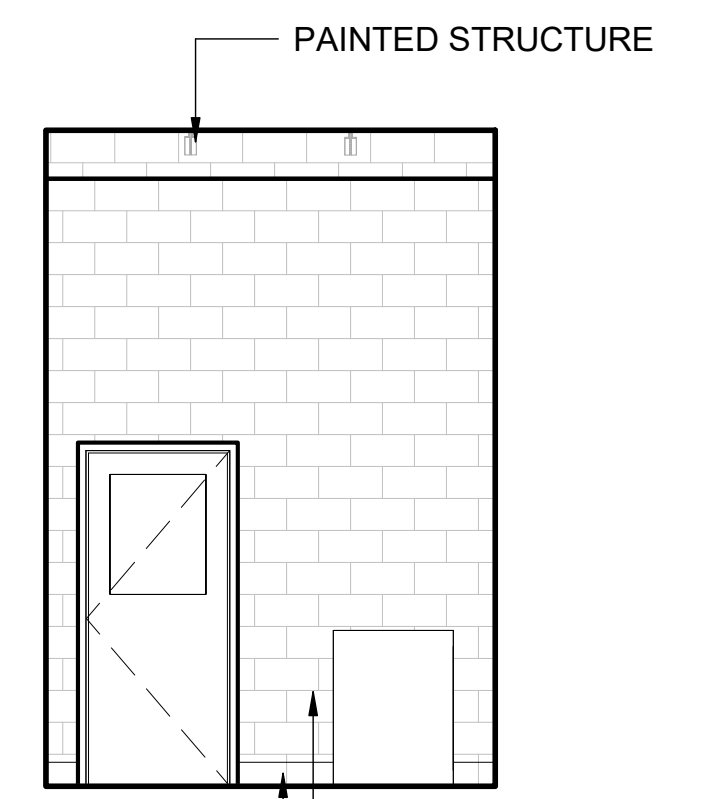
7 KENNEL ELEVATION
1/4" = 1'-0"



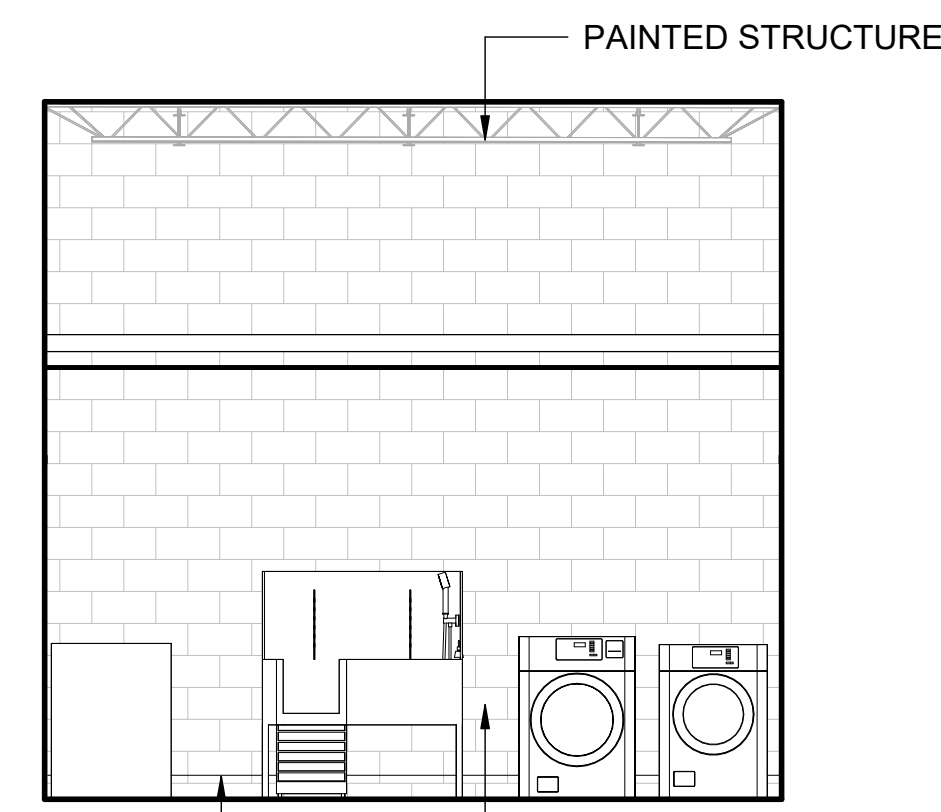
6 KENNEL ELEVATION
1/4" = 1'-0"



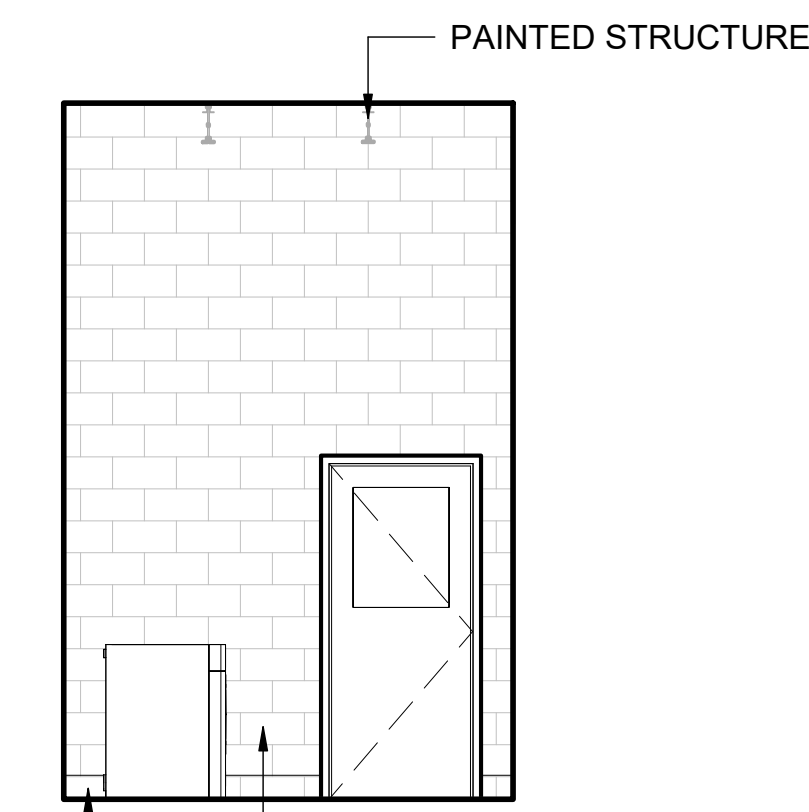
5 ENLARGED TYPICAL KENNEL
1/4" = 1'-0"



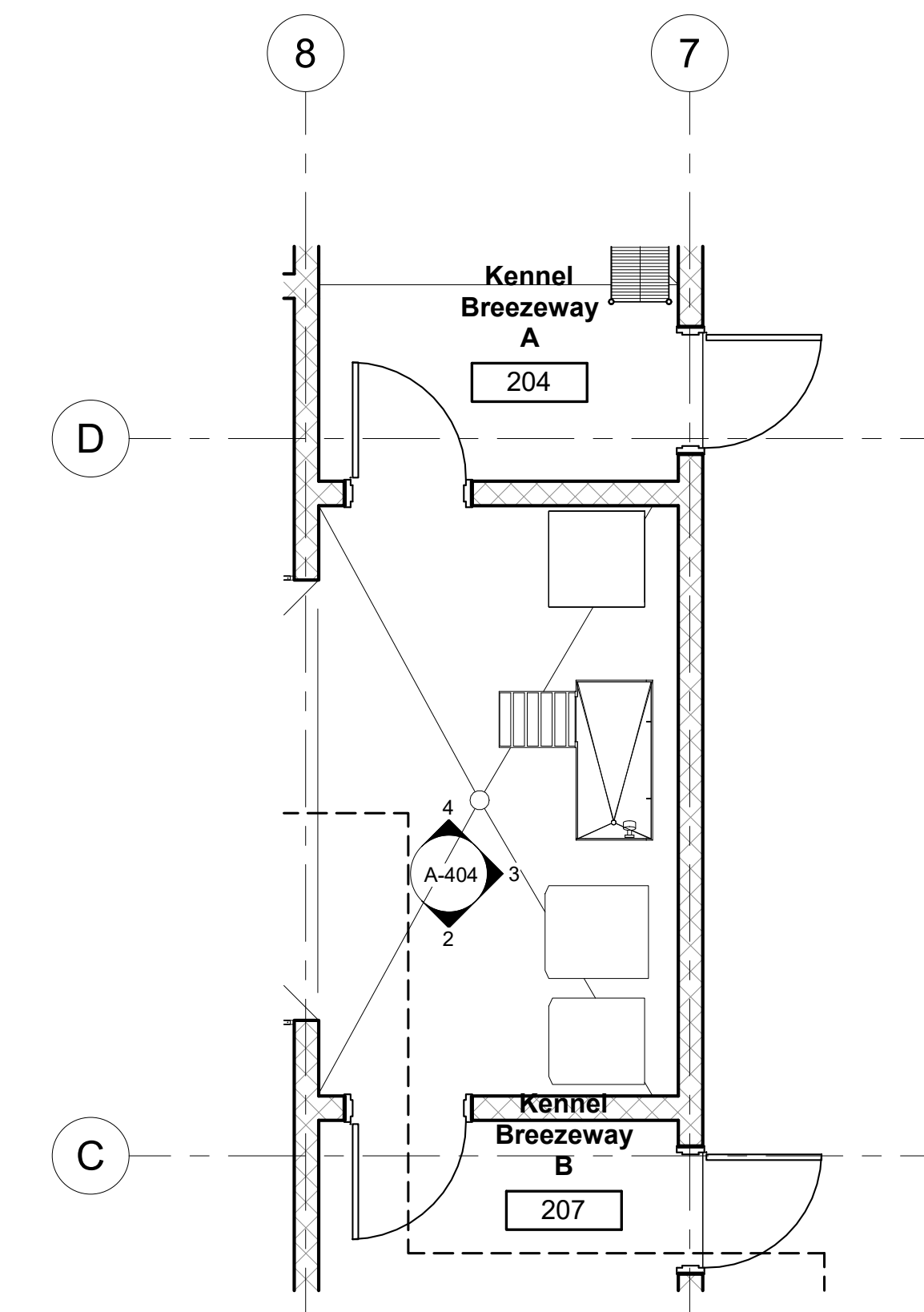
4 WASH AREA ELEVATION
1/4" = 1'-0"



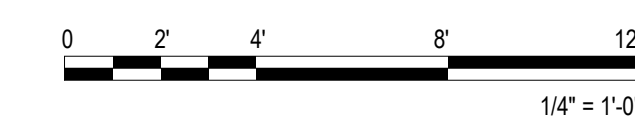
3 WASH AREA ELEVATION
1/4" = 1'-0"



2 WASH AREA ELEVATION
1/4" = 1'-0"



1 ENLARGED KENNEL DOG WASH AREA
1/4" = 1'-0"



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ENLARGED PLANS AND INTERIOR ELEVATIONS

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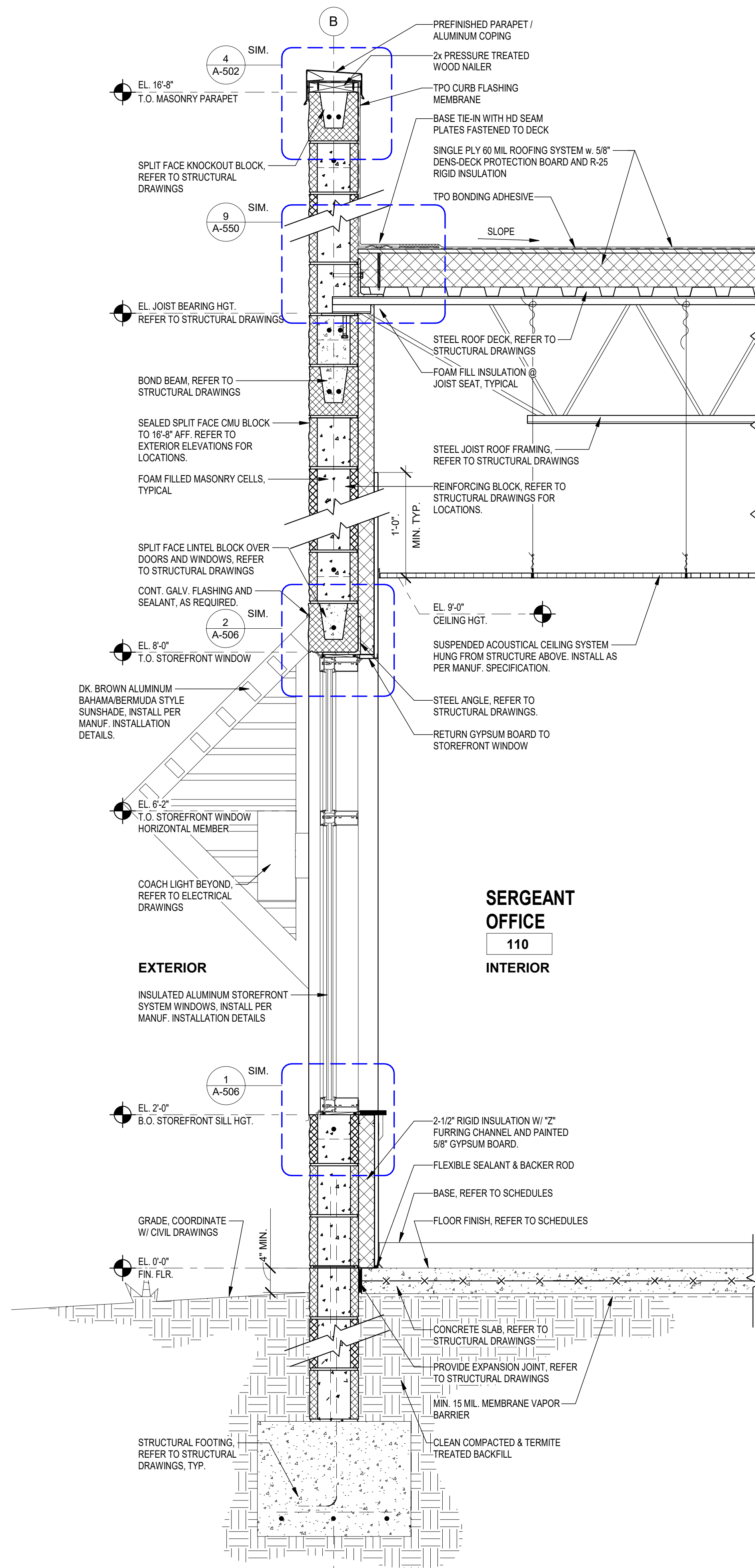
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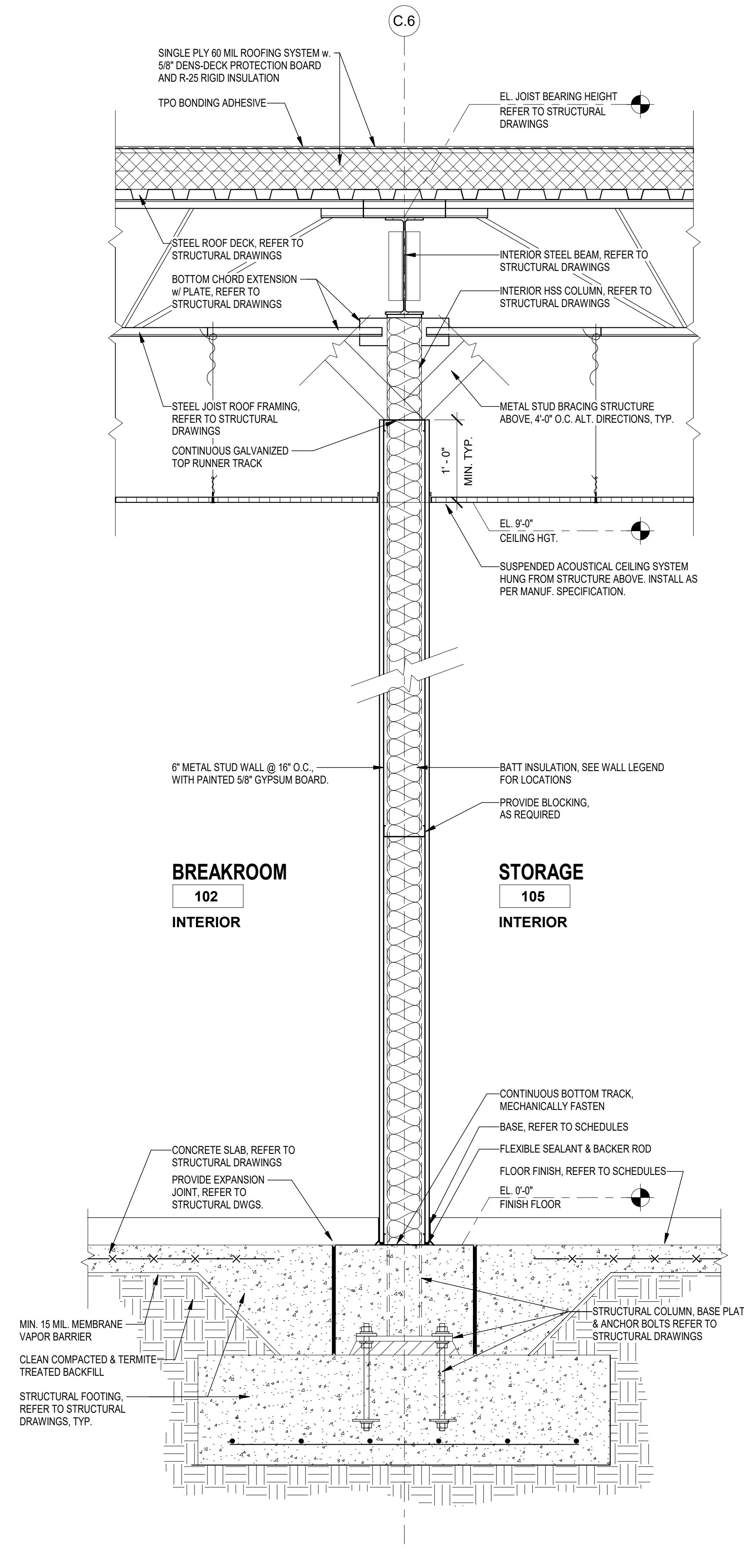
GENERAL NOTES:

- VERIFY ALL DIMENSIONS & NOTIFY ARCHITECT OF ANY DIMENSIONAL CONFLICTS PRIOR TO CONSTRUCTION.
- ALUMINUM BAHAMA/BERMUDA STYLE SUNSHADE, INSTALL PER MANUF. INSTALLATION DETAILS. CONTRACTOR TO SUBMIT SHOP DRAWINGS AND SUBMITTALS FOR FINAL REVIEW AND APPROVAL.
- ALL EXPOSED FLASHING, FASCIAS, ETC. TO BE PREFINISHED KYNAR 500 COATING.



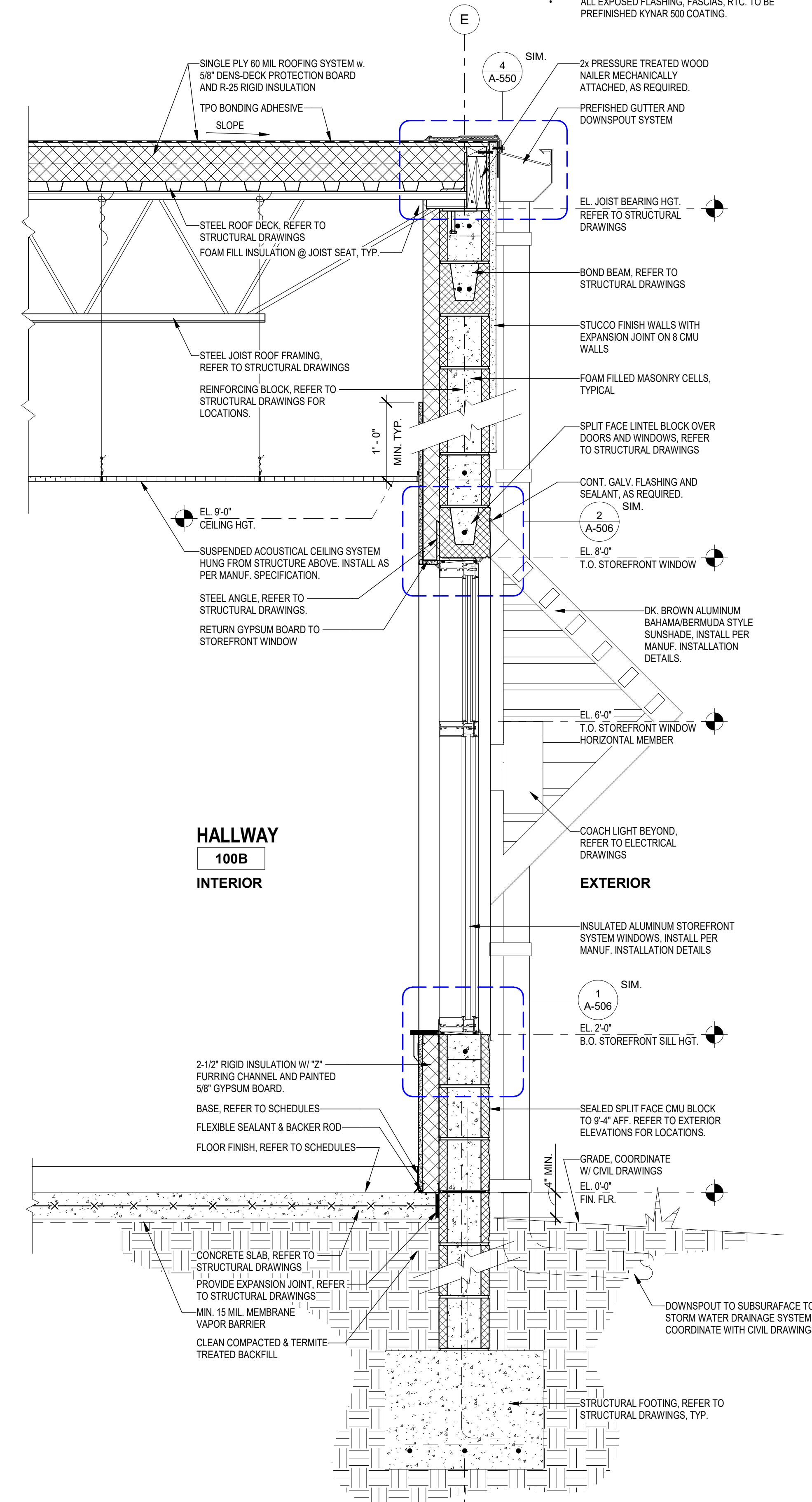
1 EXTERIOR WALL SECTION
1" = 1'-0"

ADMINISTRATION BLDG.



2 INTERIOR WALL SECTION @ COLUMN
1" = 1'-0"

KENNEL SHELTER BUILDING



3 EXTERIOR WALL SECTION
1" = 1'-0"

ADMINISTRATION BLDG.

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WALL SECTIONS AND DETAILS

#	ISSUED FOR	DATE
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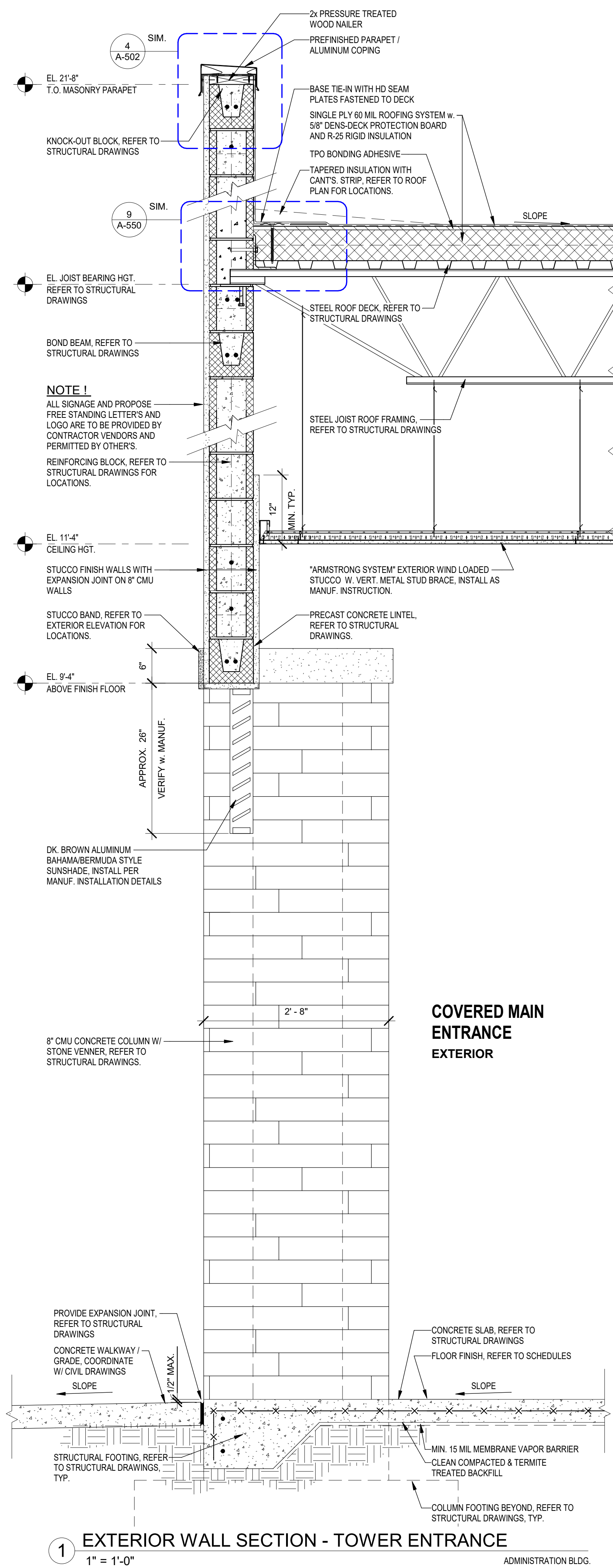
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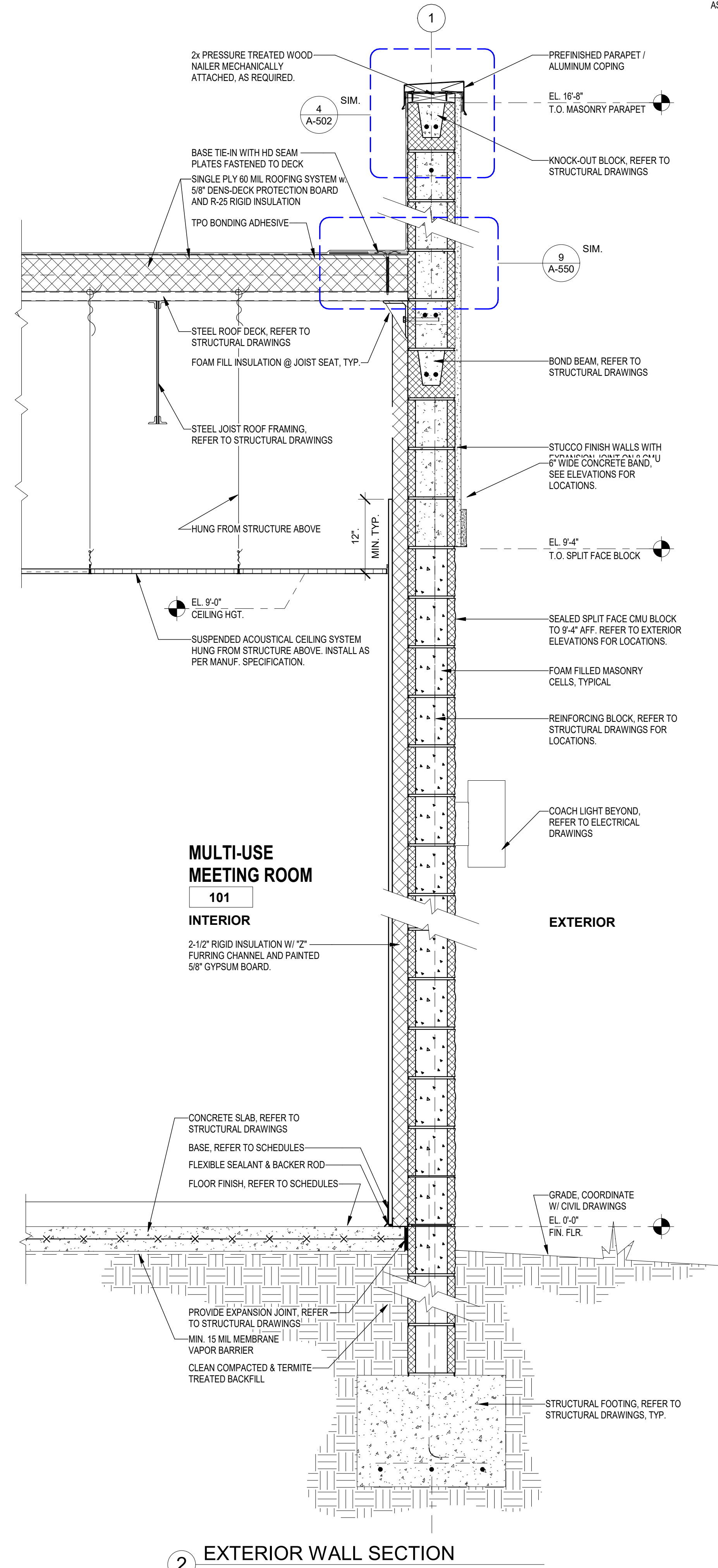
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1 EXTERIOR WALL SECTION - TOWER ENTRANCE
1" = 1'-0"

ADMINISTRATION BLDG.



MULTI-USE MEETING ROOM
101

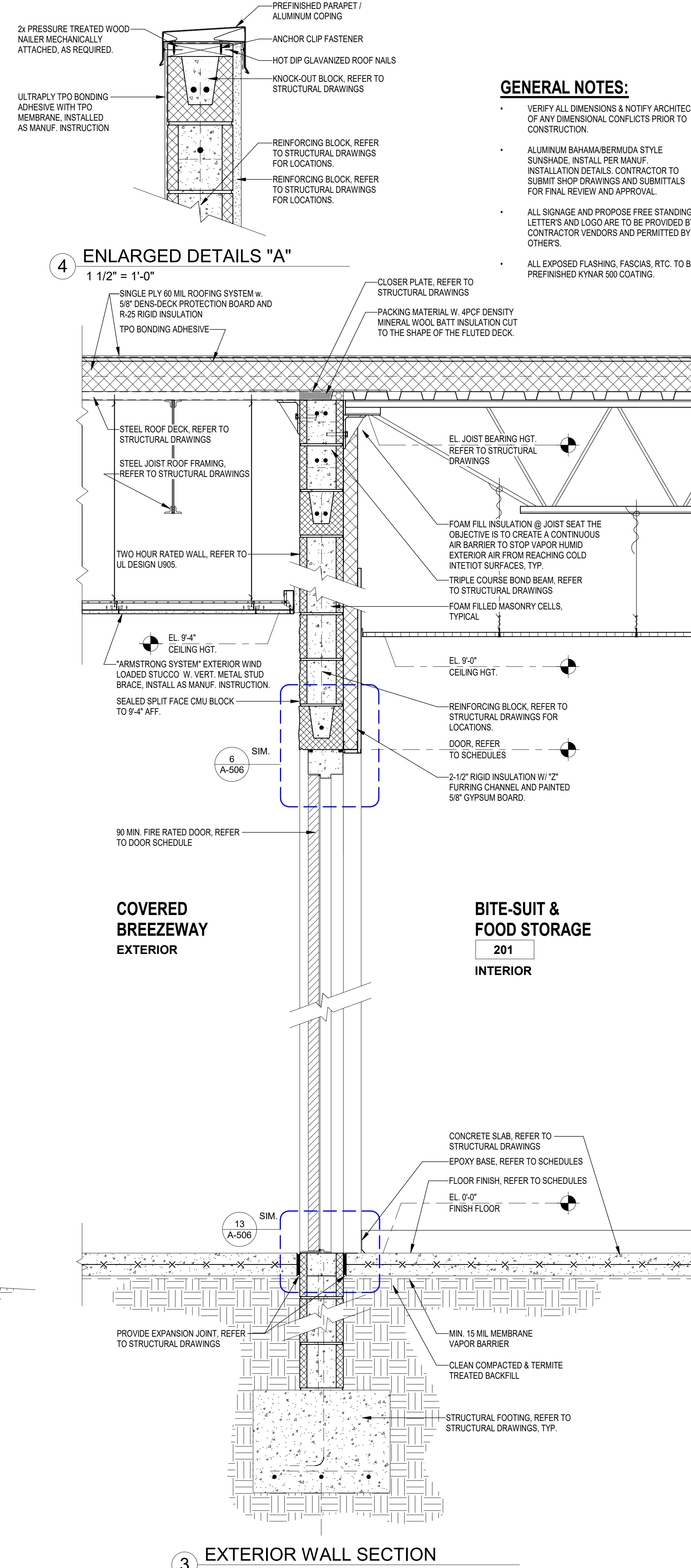
INTERIOR

2-1/2" RIGID INSULATION W/ 2" FURRING CHANNEL AND PAINTED 5/8" GYPSUM BOARD.

EXTERIOR

2 EXTERIOR WALL SECTION
1" = 1'-0"

ADMINISTRATION BLDG.



4 ENLARGED DETAILS "A"
1 1/2" = 1'-0"

COVERED BREEZEWAY EXTERIOR

BITE-SUIT & FOOD STORAGE
201

INTERIOR

3 EXTERIOR WALL SECTION
1" = 1'-0"

ADMINISTRATION BLDG.

GENERAL NOTES:

- VERIFY ALL DIMENSIONS & NOTIFY ARCHITECT OF ANY DIMENSIONAL CONFLICTS PRIOR TO CONSTRUCTION.
- ALUMINUM BAHAMA/BERMUDA STYLE SUNSHADE, INSTALL PER MANUF. INSTALLATION DETAILS. CONTRACTOR TO SUBMIT SHOP DRAWINGS AND SUBMITTALS FOR FINAL REVIEW AND APPROVAL.
- ALL SIGNAGE AND PROPOSE FREE STANDING LETTERS AND LOGO ARE TO BE PROVIDED BY CONTRACTOR VENDORS AND PERMITTED BY OTHERS.
- ALL EXPOSED FLASHING, FASCIAS, RTC. TO BE PREFINISHED KYNAR 500 COATING.

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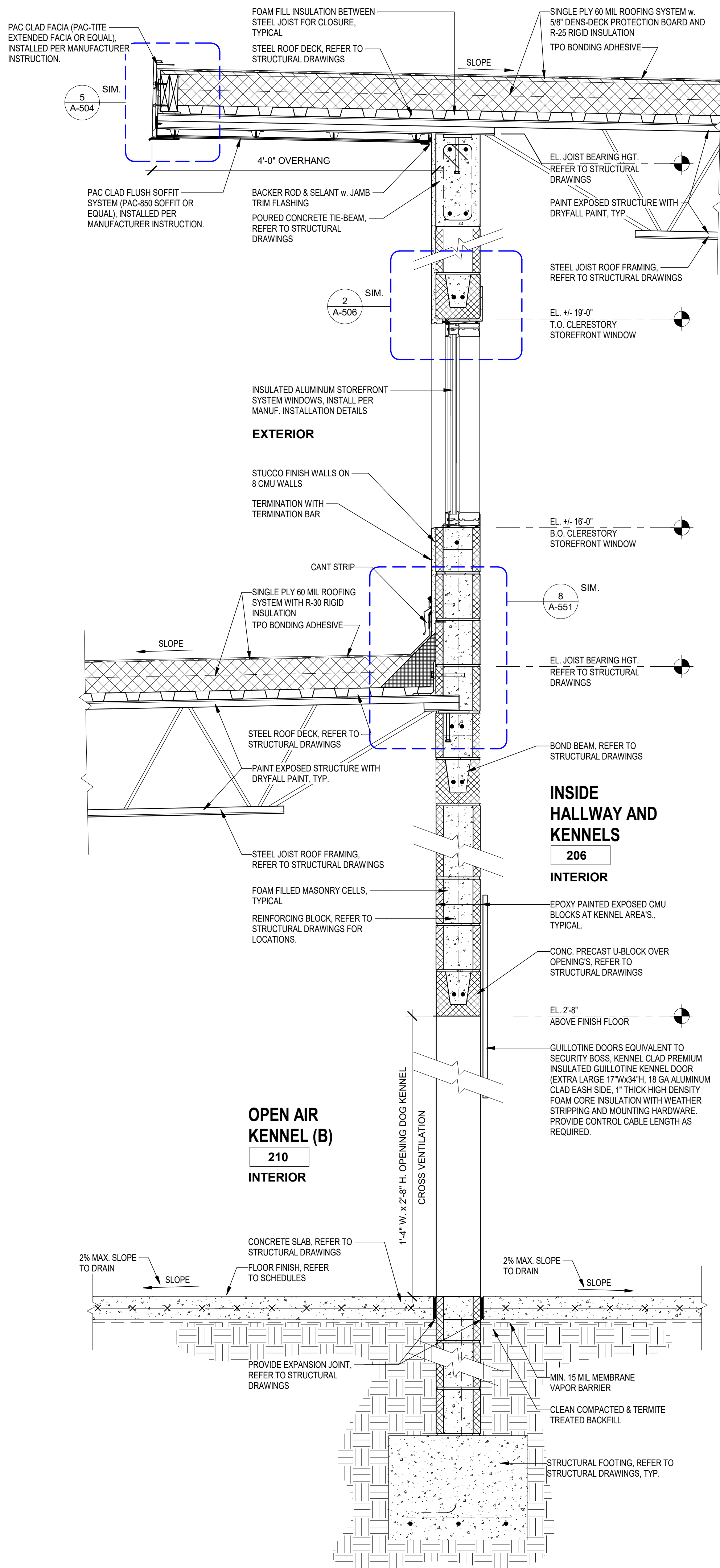
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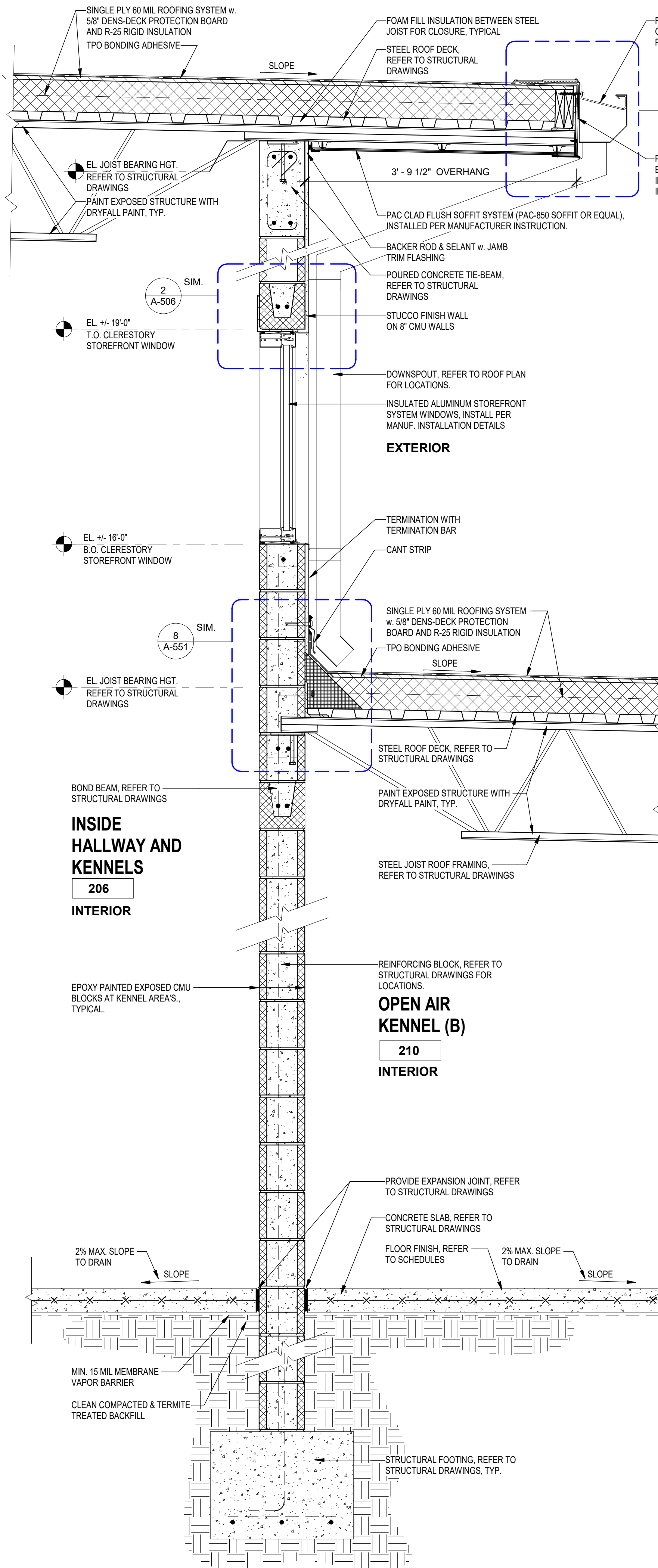
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A-502



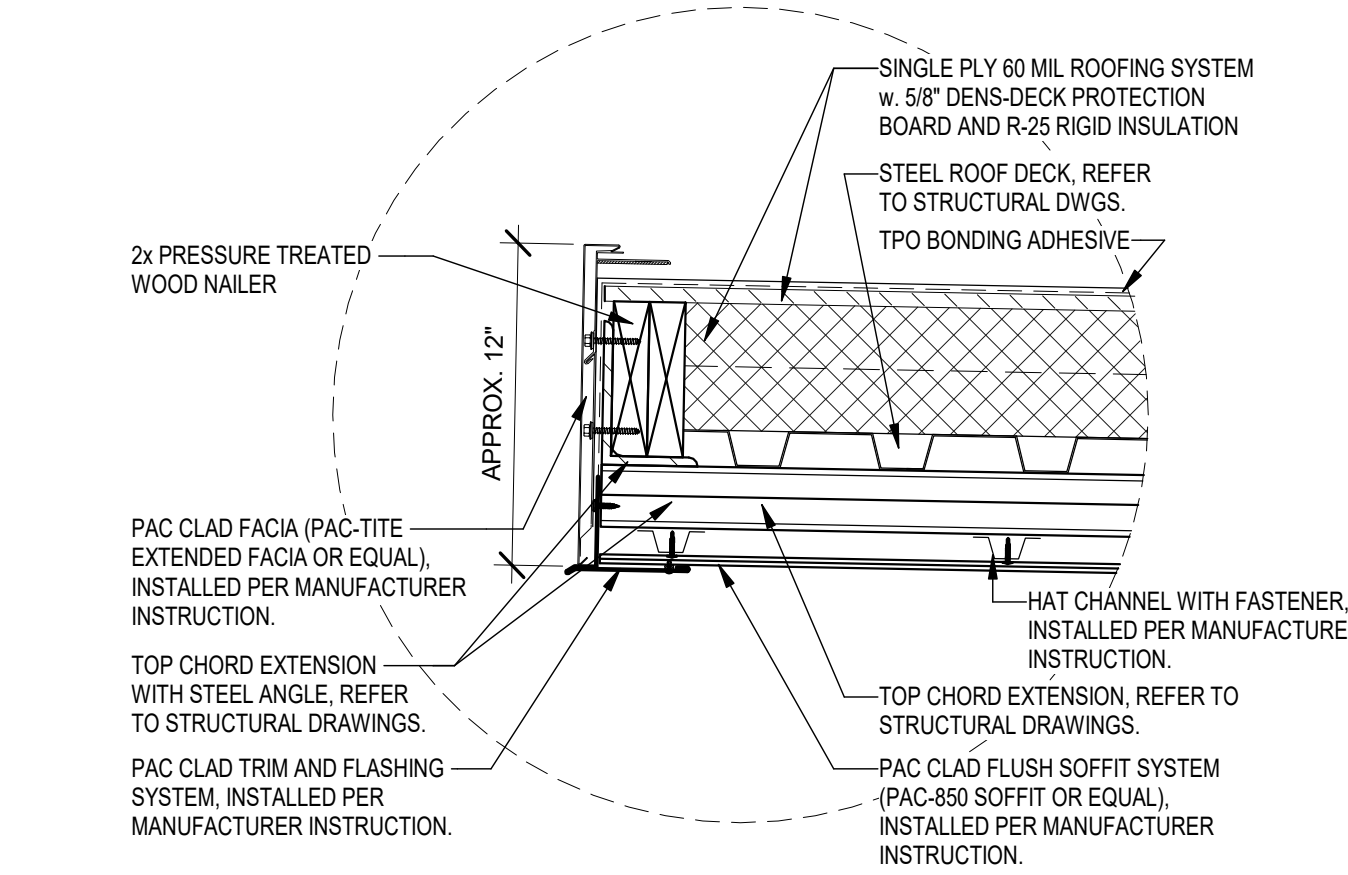
1 WALL SECTION - WEST WALL CLERESTORY
1" = 1'-0"

KENNEL SHELTER BUILDING

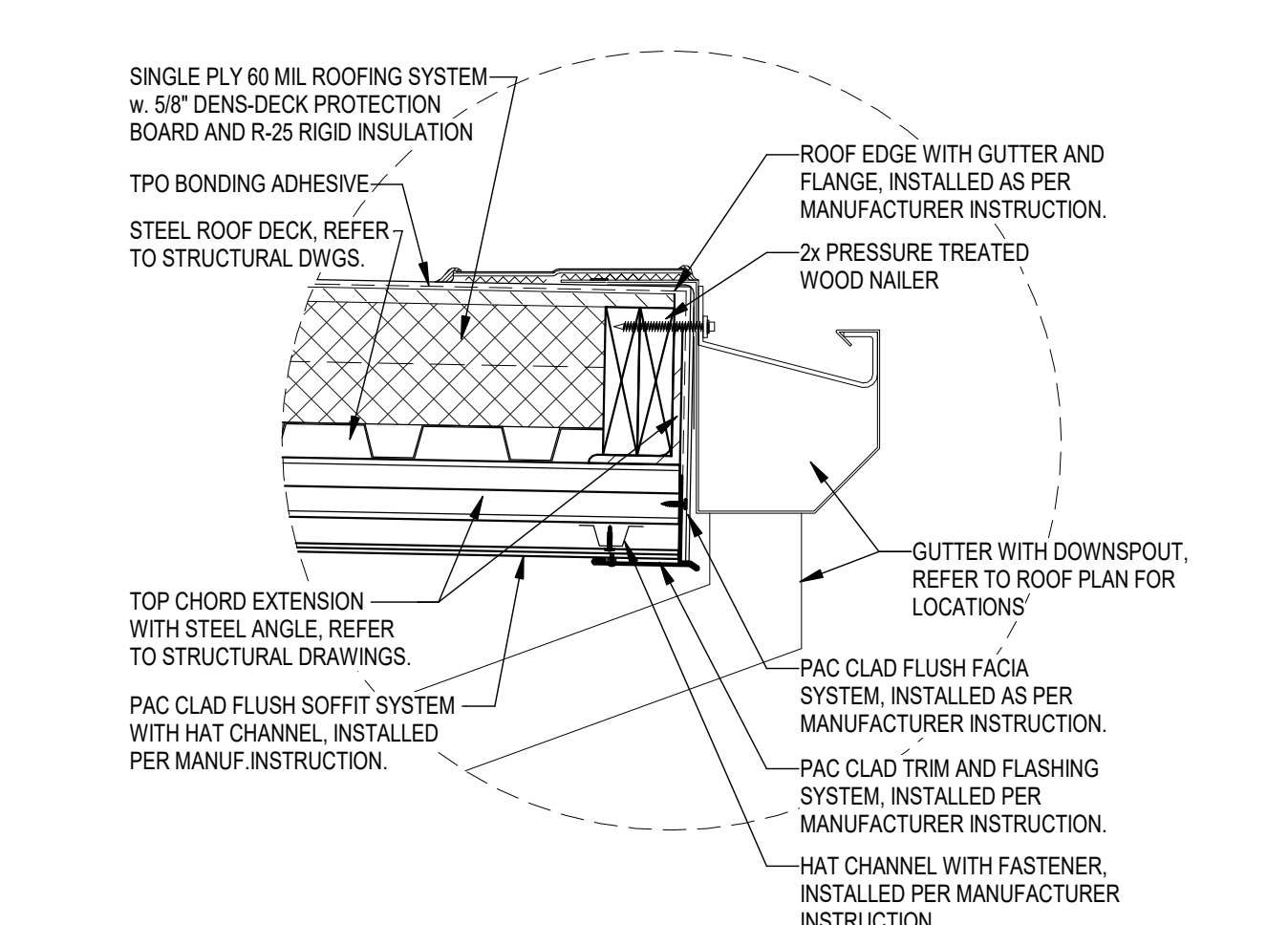


2 WALL SECTION - EAST WALL CLERESTORY
1" = 1'-0"

KENNEL SHELTER BUILDING



5 ENLARGED CLERESTORY FACIA DETAILS
1 1/2" = 1'-0"



4 ENLARGED CLERESTORY GUTTER DETAILS
1 1/2" = 1'-0"

GENERAL NOTES:

- VERIFY ALL DIMENSIONS & NOTIFY ARCHITECT OF ANY DIMENSIONAL CONFLICTS PRIOR TO CONSTRUCTION.
- ALUMINUM BAHAMA/BERMUDA STYLE SUNSHADE, INSTALL PER MANUF. INSTALLATION DETAILS. CONTRACTOR TO SUBMIT SHOP DRAWINGS AND SUBMITTALS FOR FINAL REVIEW AND APPROVAL.
- ALL SIGNAGE AND PROPOSE FREE STANDING LETTERS AND LOGO ARE TO BE PROVIDED BY CONTRACTOR VENDORS AND PERMITTED BY OTHERS.
- ALL EXPOSED FLASHING, FASCIA, RTC, TO BE PREFINISHED KYNAR 500 COATING.

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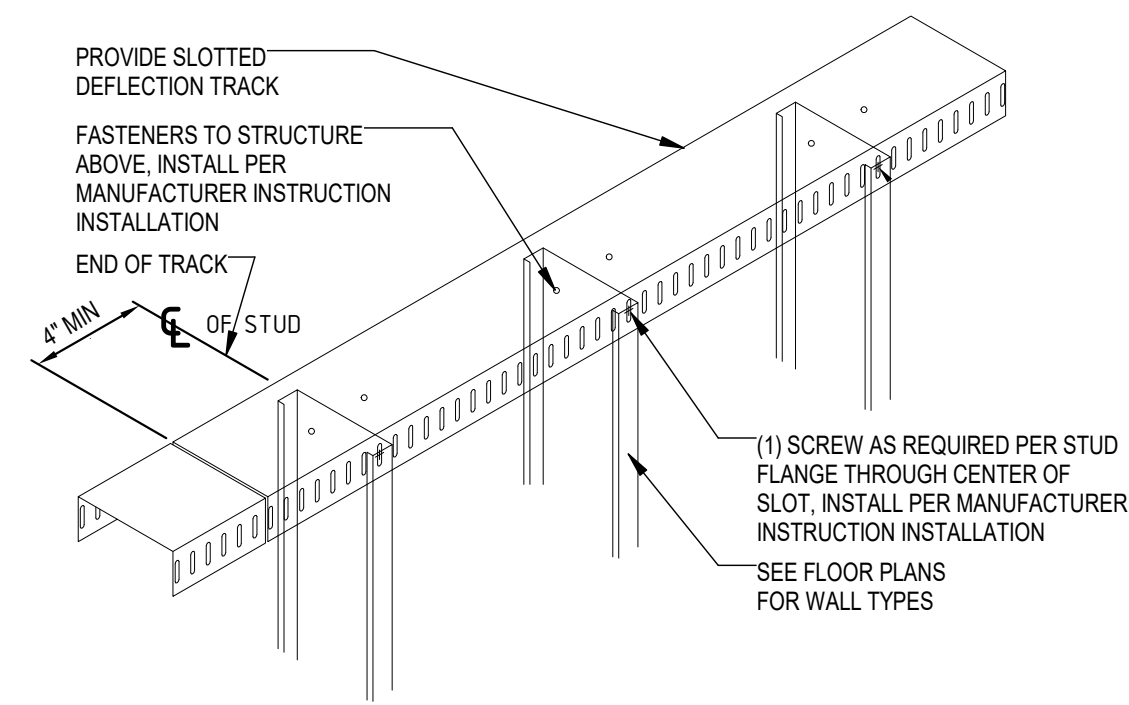
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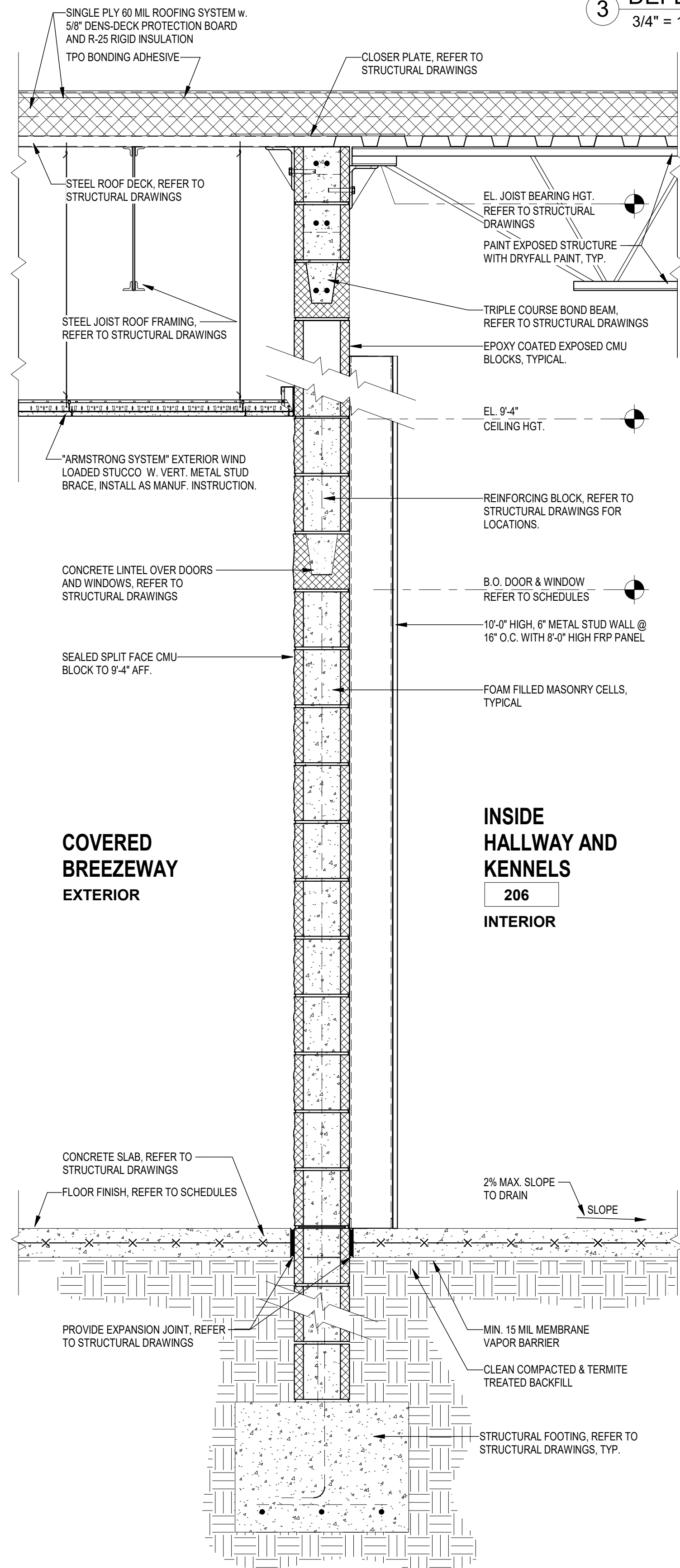
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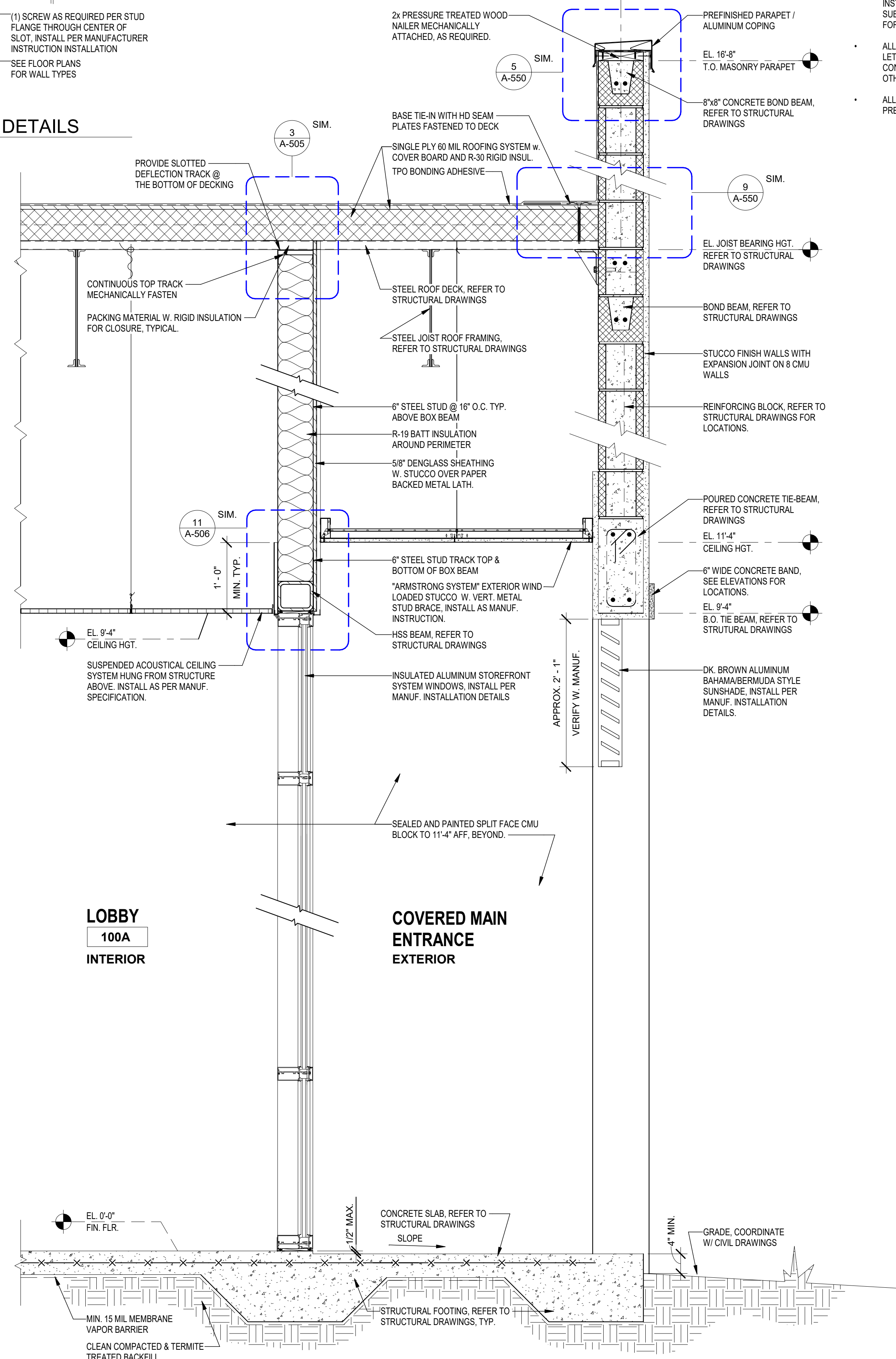


3 DEFLECTION TRACK DETAILS
3/4" = 1'-0"



1 EXTERIOR WALL SECTION
1" = 1'-0"

ADMINISTRATION BLDG.



2 EXTERIOR WALL SECTION
1" = 1'-0"

ADMINISTRATION BLDG.

GENERAL NOTES:

- VERIFY ALL DIMENSIONS & NOTIFY ARCHITECT OF ANY DIMENSIONAL CONFLICTS PRIOR TO CONSTRUCTION.
- ALUMINUM BAHAMA/BERMUDA STYLE SUNSHADE, INSTALL PER MANUF. INSTALLATION DETAILS. CONTRACTOR TO SUBMIT SHOP DRAWINGS AND SUBMITTALS FOR FINAL REVIEW AND APPROVAL.
- ALL SIGNAGE AND PROPOSE FREE STANDING LETTERS AND LOGO ARE TO BE PROVIDED BY CONTRACTOR VENDORS AND PERMITTED BY OTHERS.
- ALL EXPOSED FLASHING, FASCIAS, RTC. TO BE PREFINISHED KYNAR 500 COATING.

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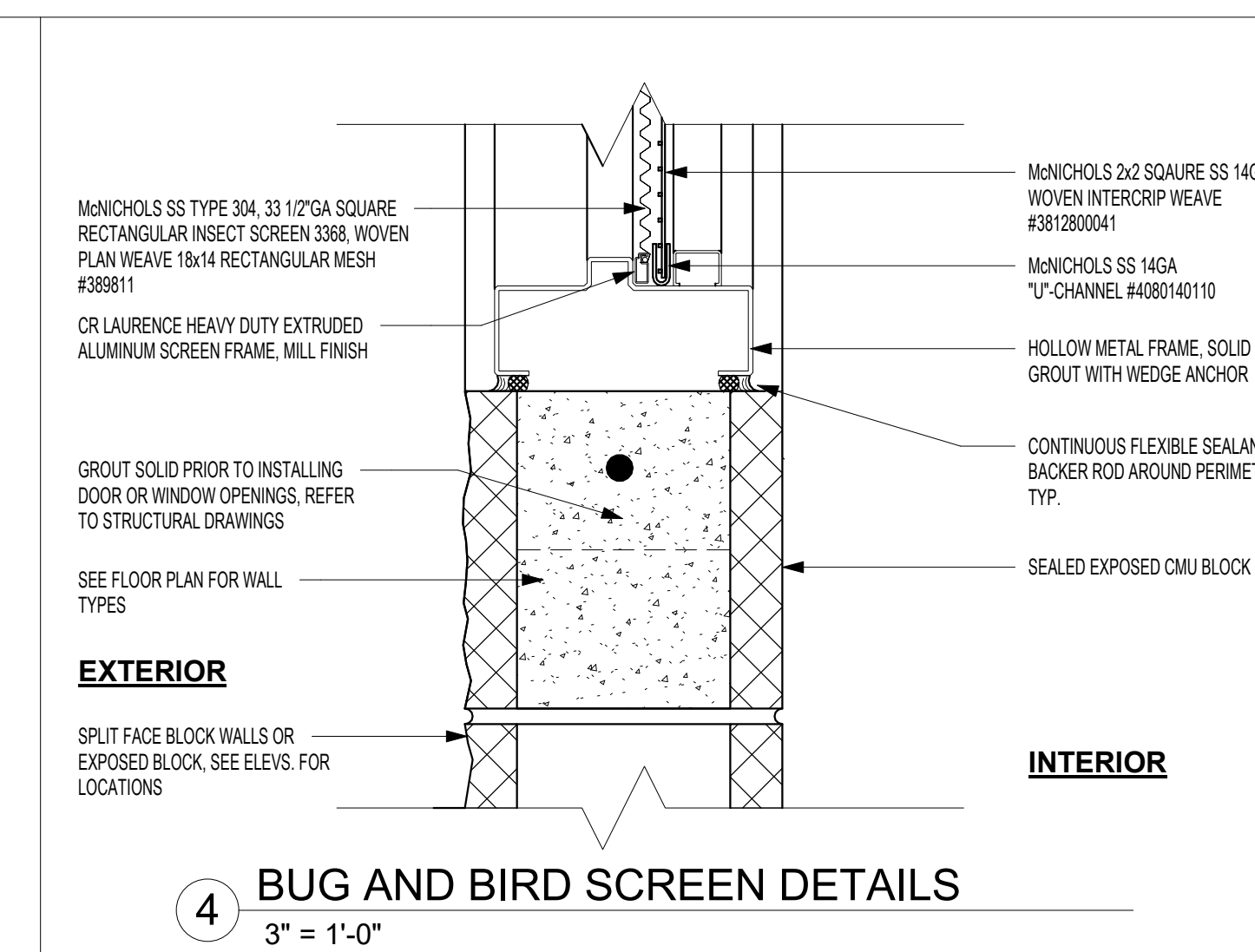
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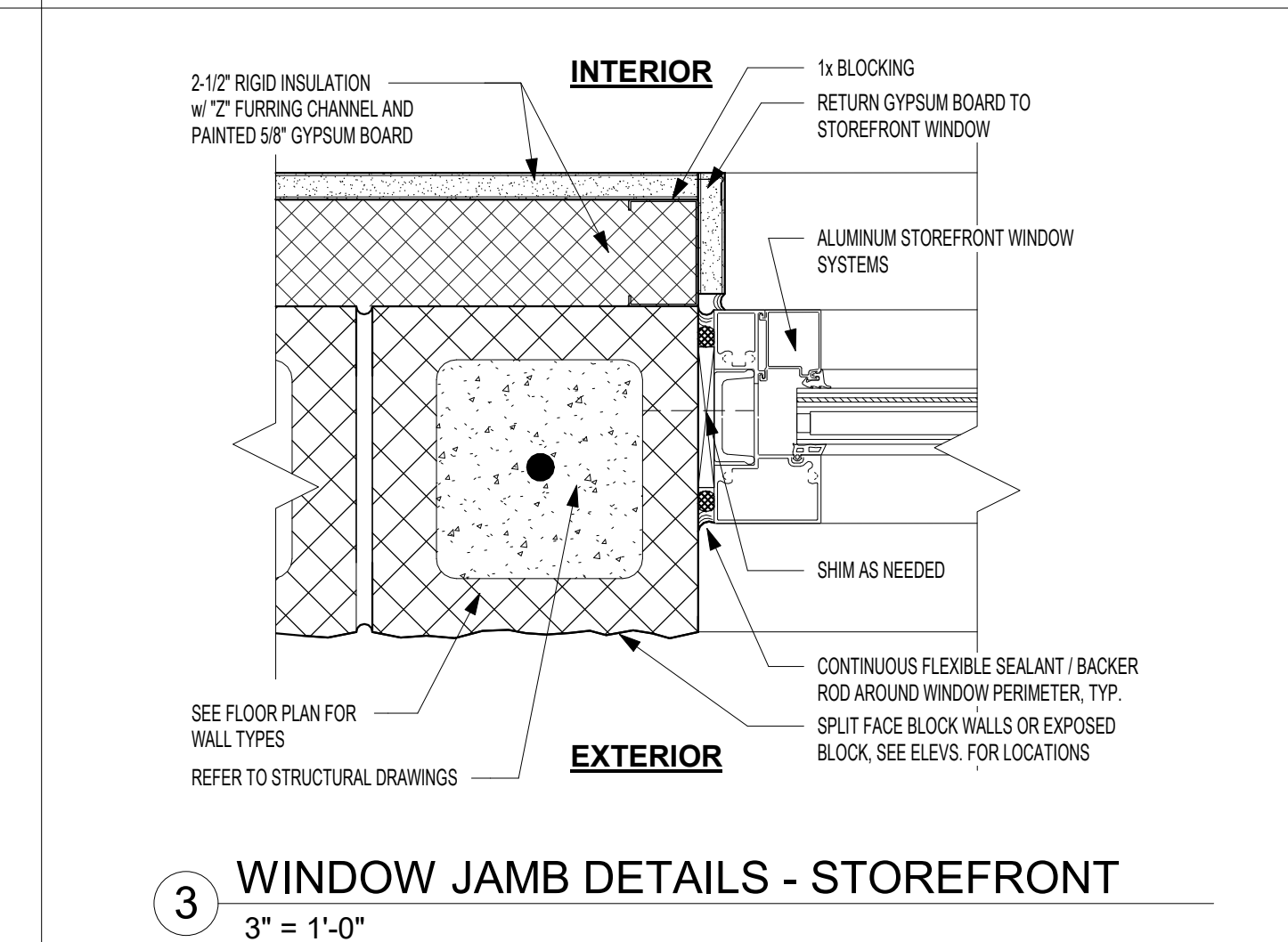
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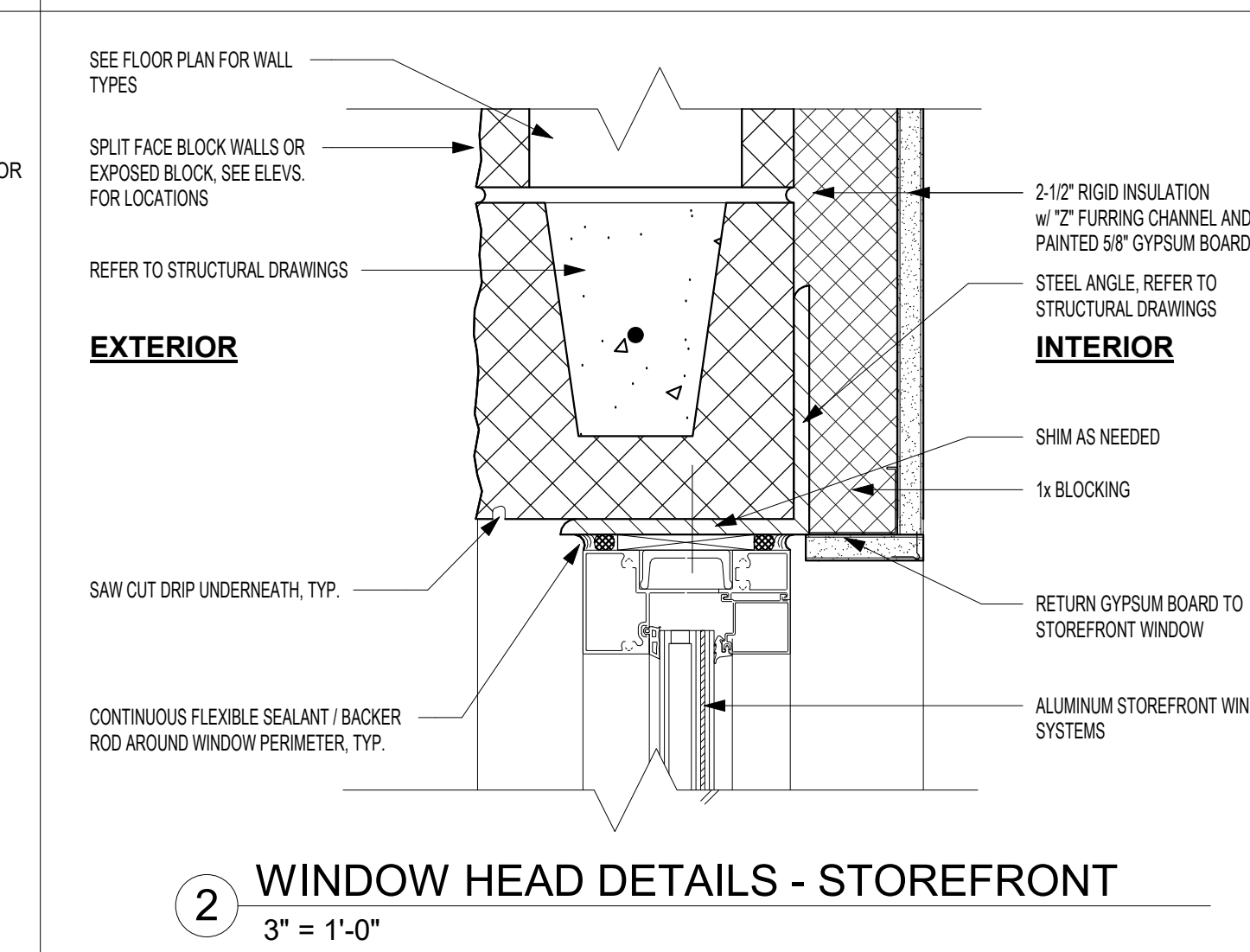
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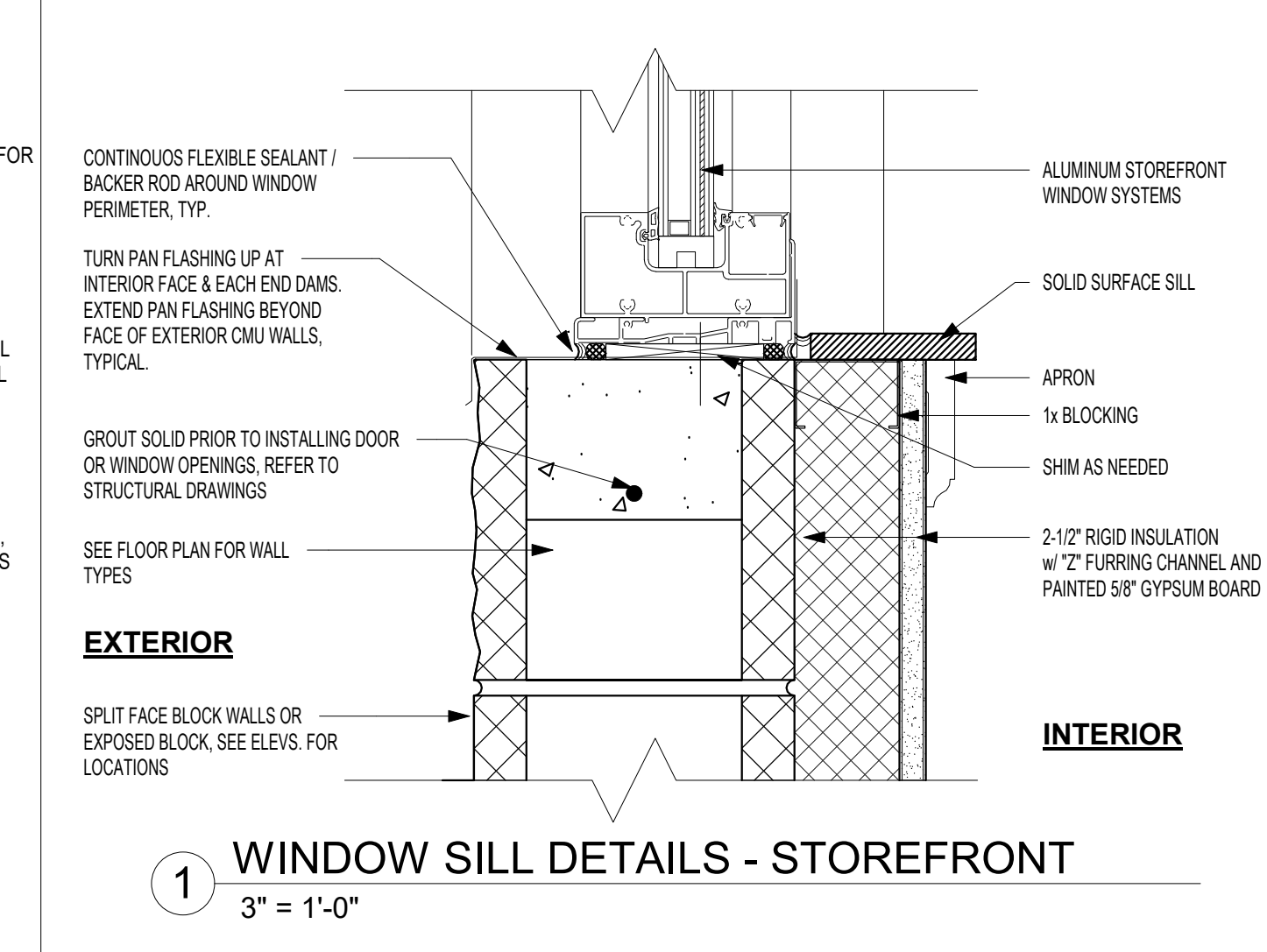
4 BUG AND BIRD SCREEN DETAILS
3" = 1'-0"



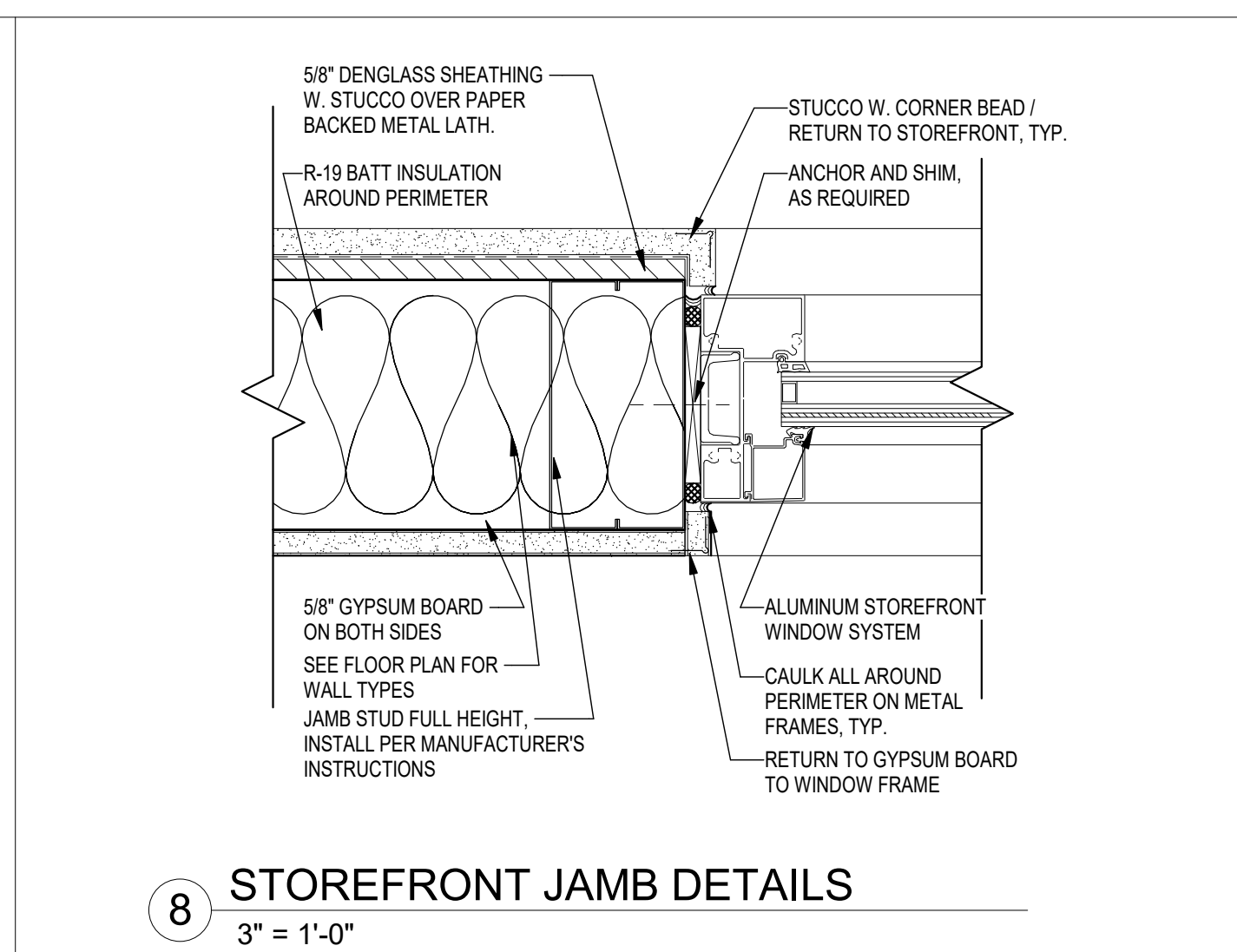
3 WINDOW JAMB DETAILS - STOREFRONT
3" = 1'-0"



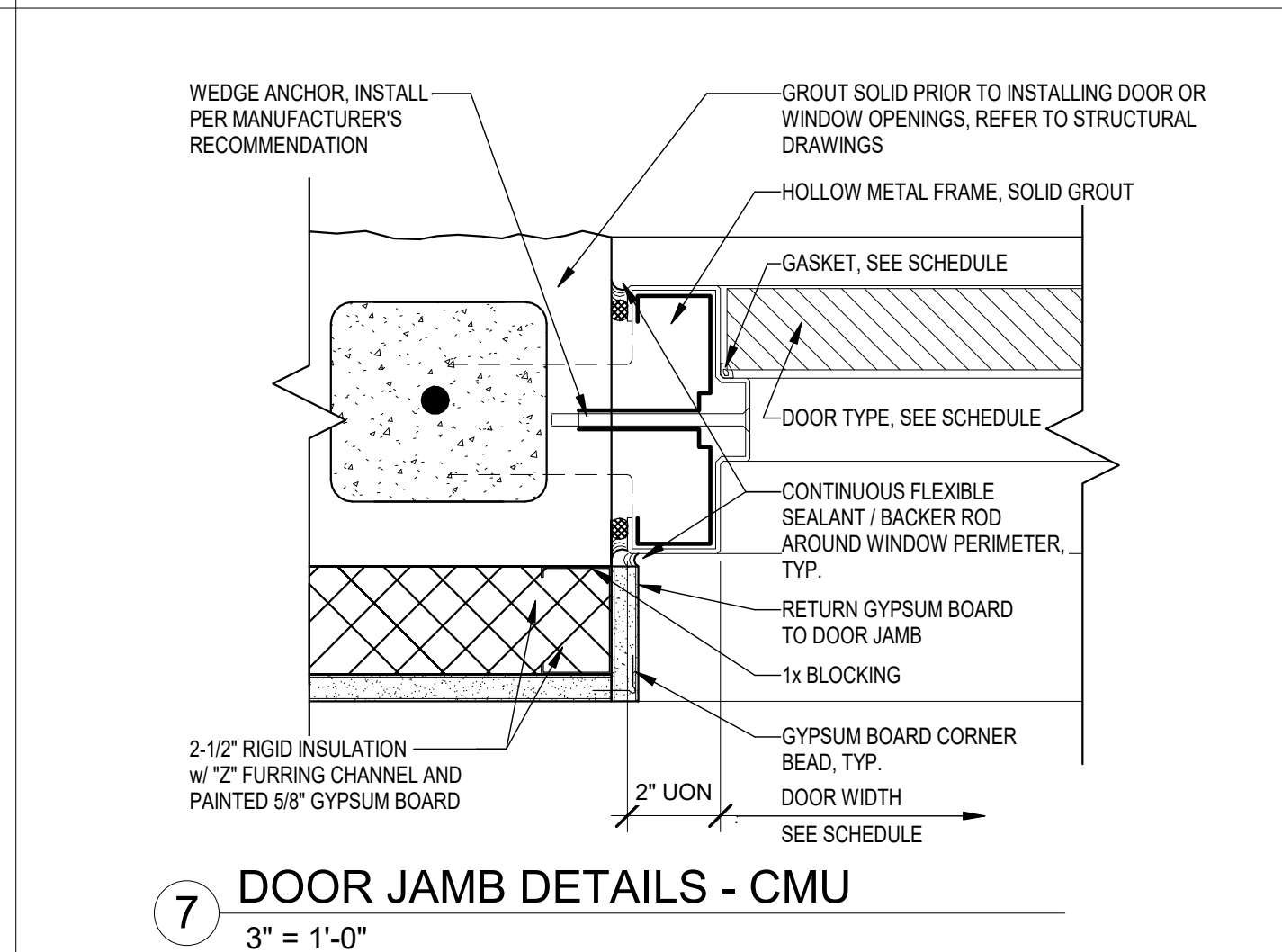
2 WINDOW HEAD DETAILS - STOREFRONT
3" = 1'-0"



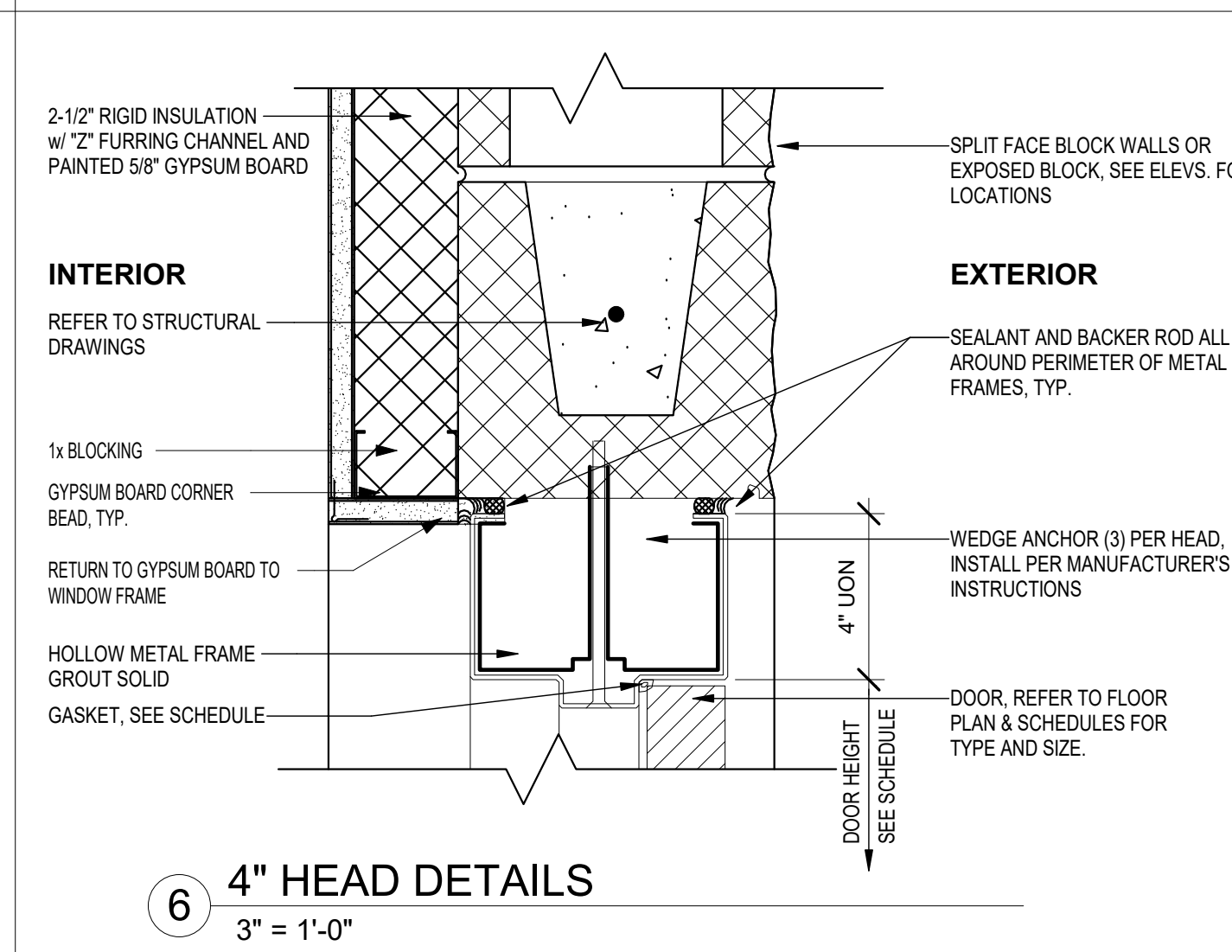
1 WINDOW SILL DETAILS - STOREFRONT
3" = 1'-0"



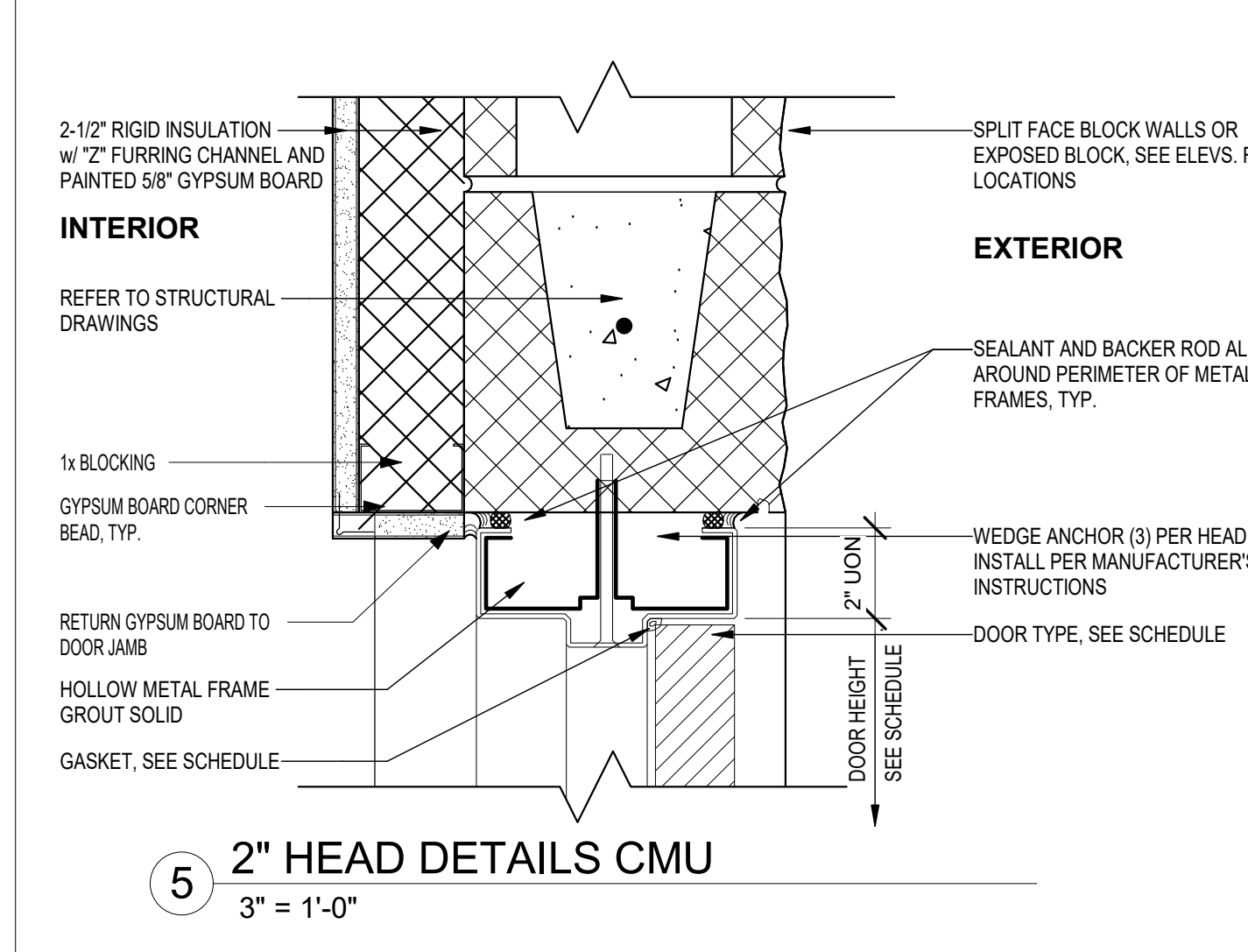
8 STOREFRONT JAMB DETAILS
3" = 1'-0"



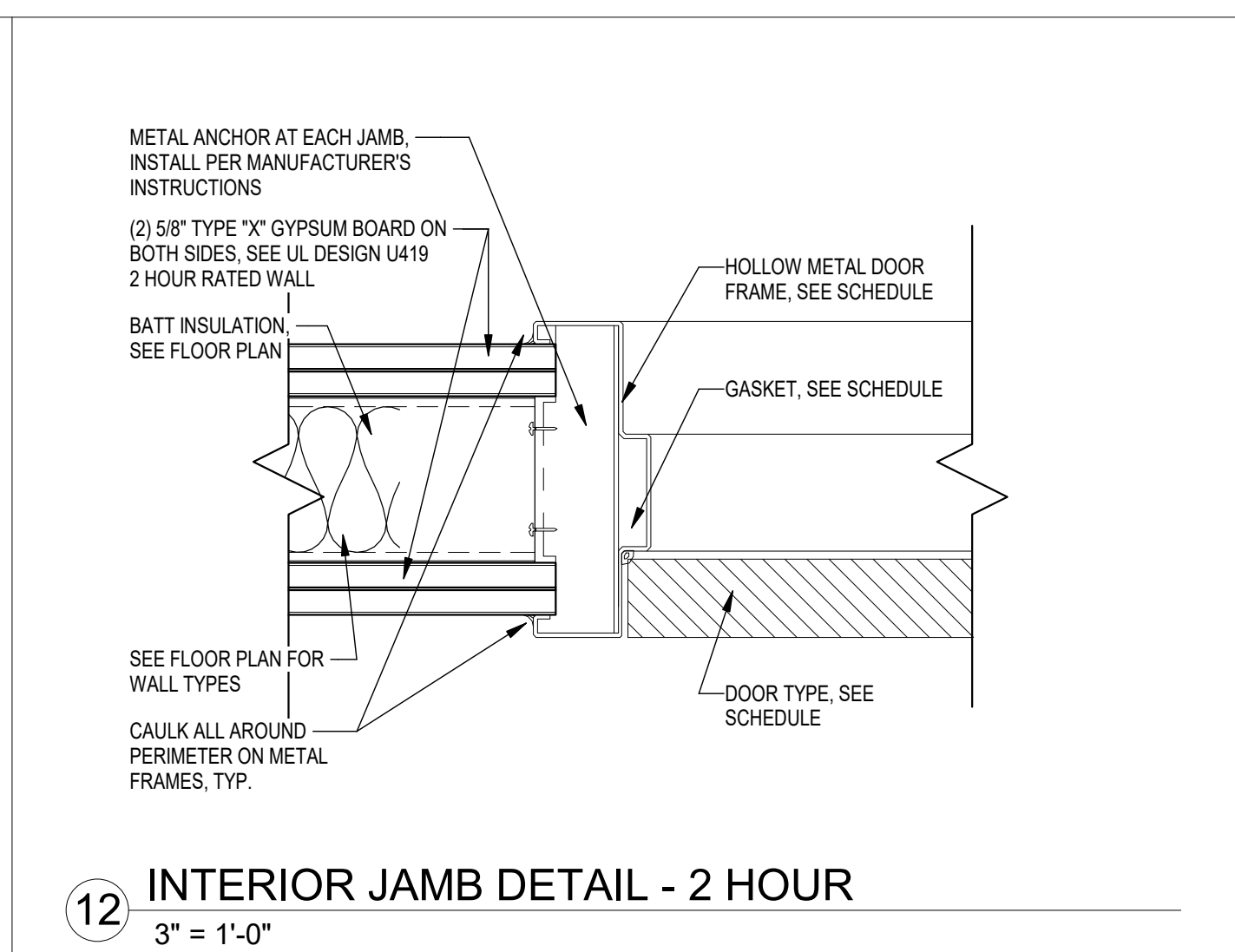
7 DOOR JAMB DETAILS - CMU
3" = 1'-0"



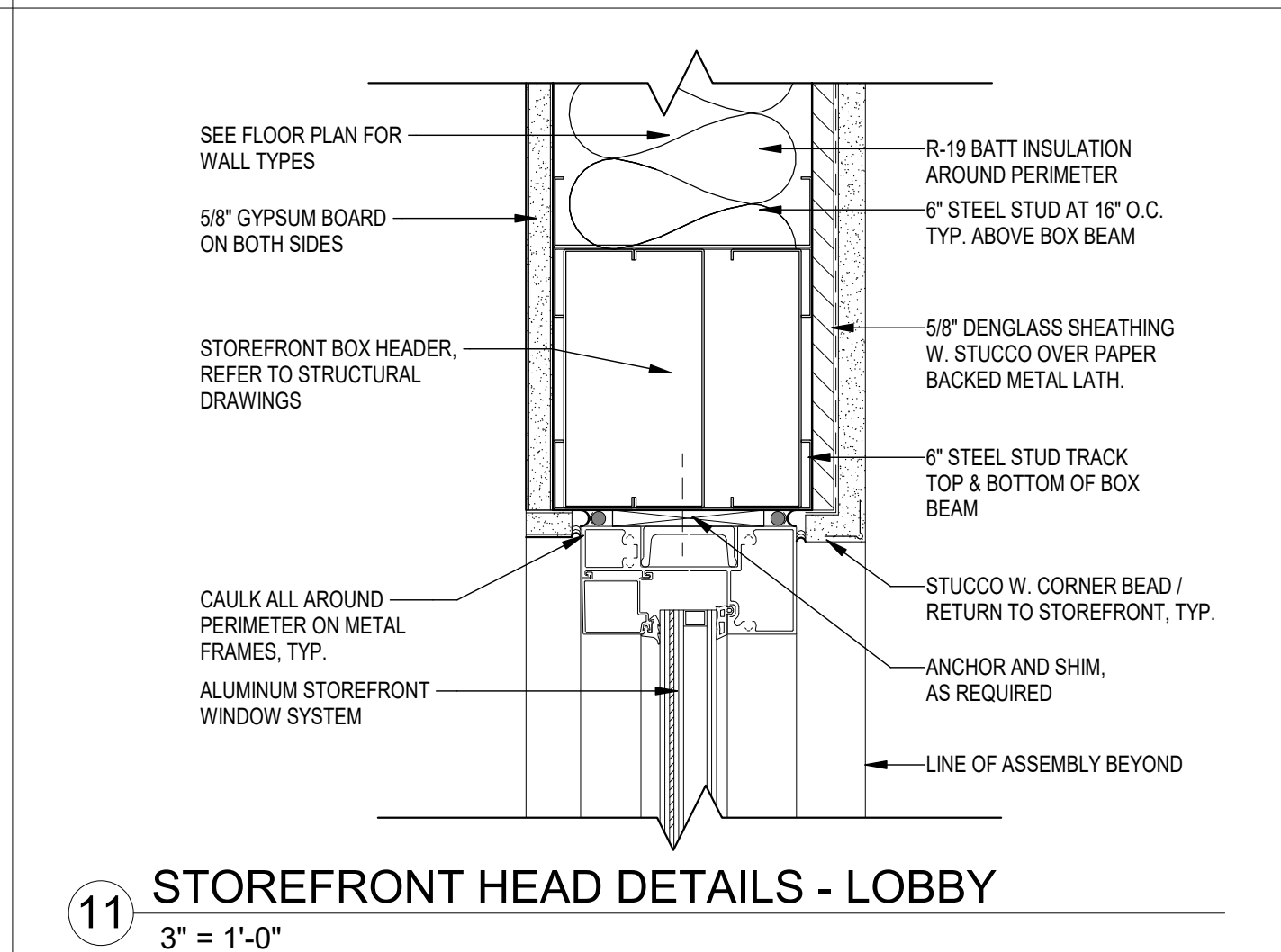
6 4" HEAD DETAILS
3" = 1'-0"



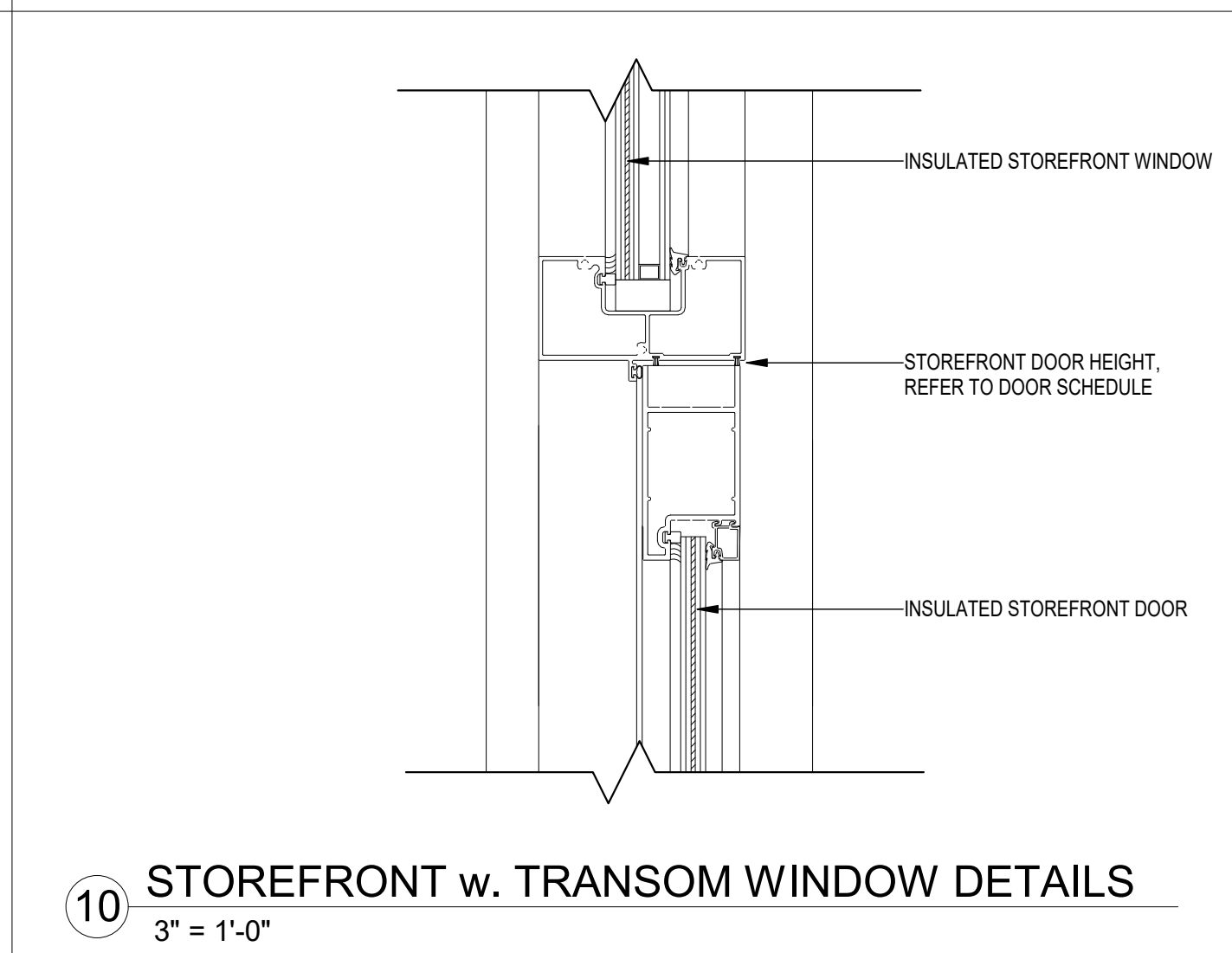
5 2" HEAD DETAILS CMU
3" = 1'-0"



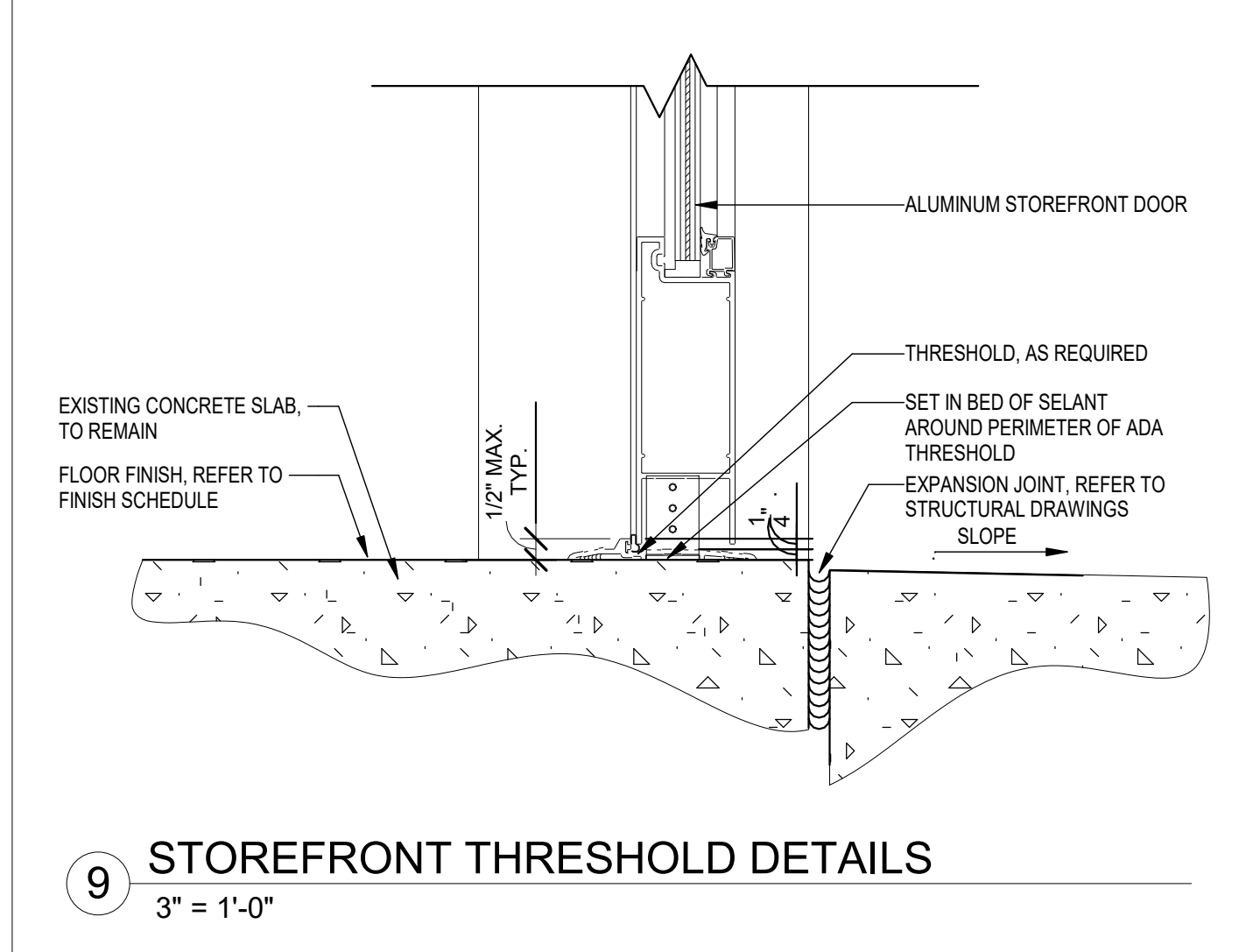
12 INTERIOR JAMB DETAIL - 2 HOUR
3" = 1'-0"



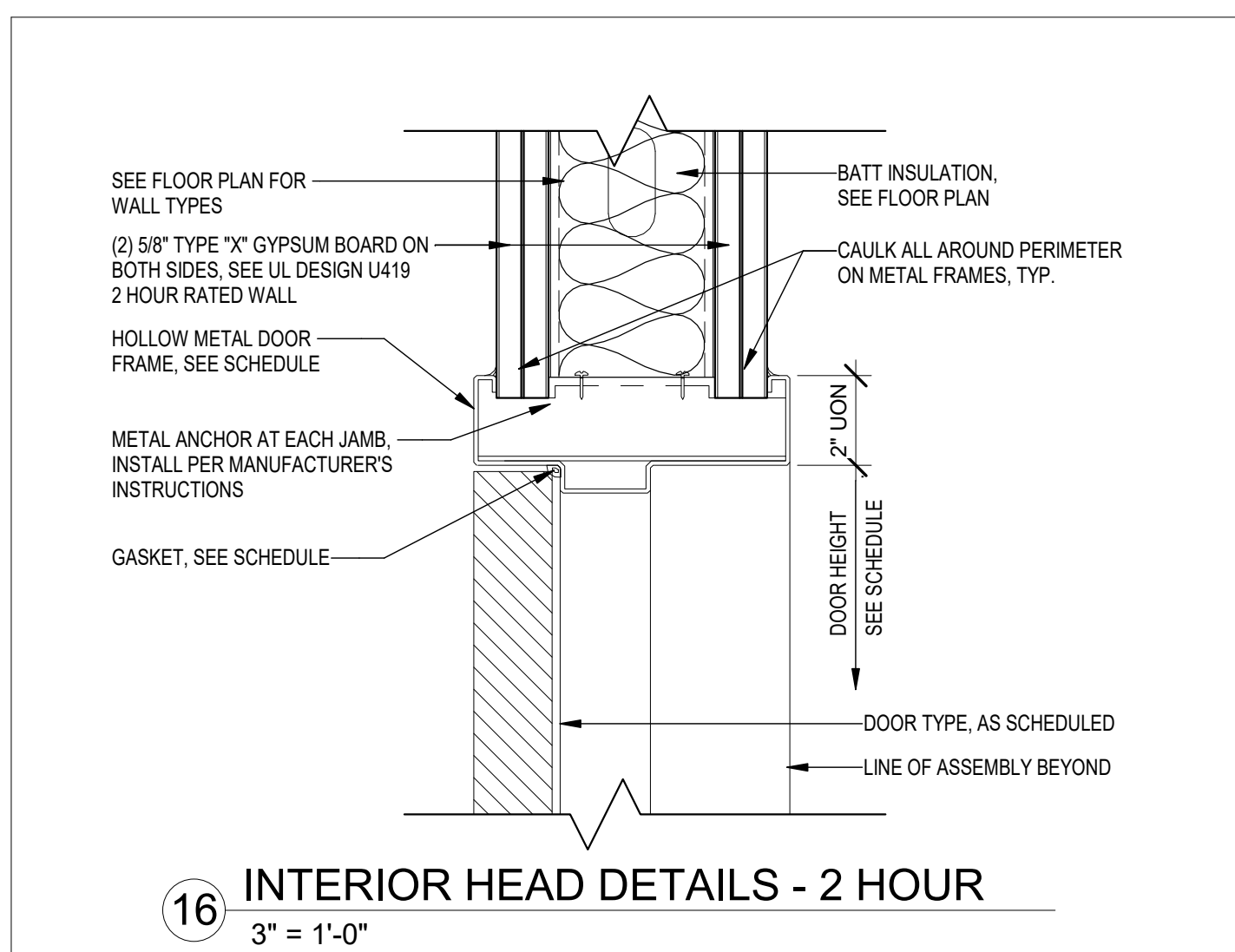
11 STOREFRONT HEAD DETAILS - LOBBY
3" = 1'-0"



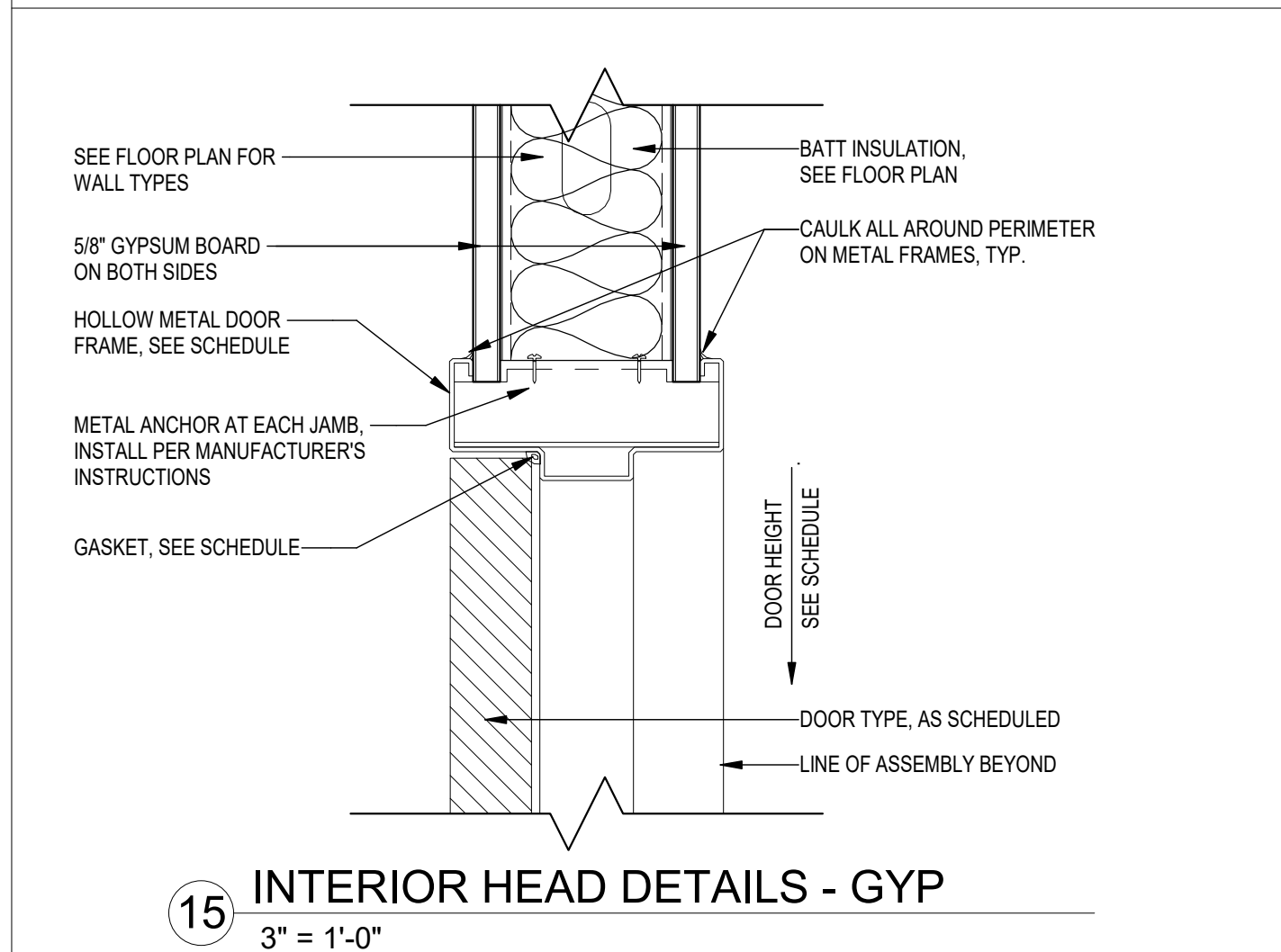
10 STOREFRONT w. TRANSOM WINDOW DETAILS
3" = 1'-0"



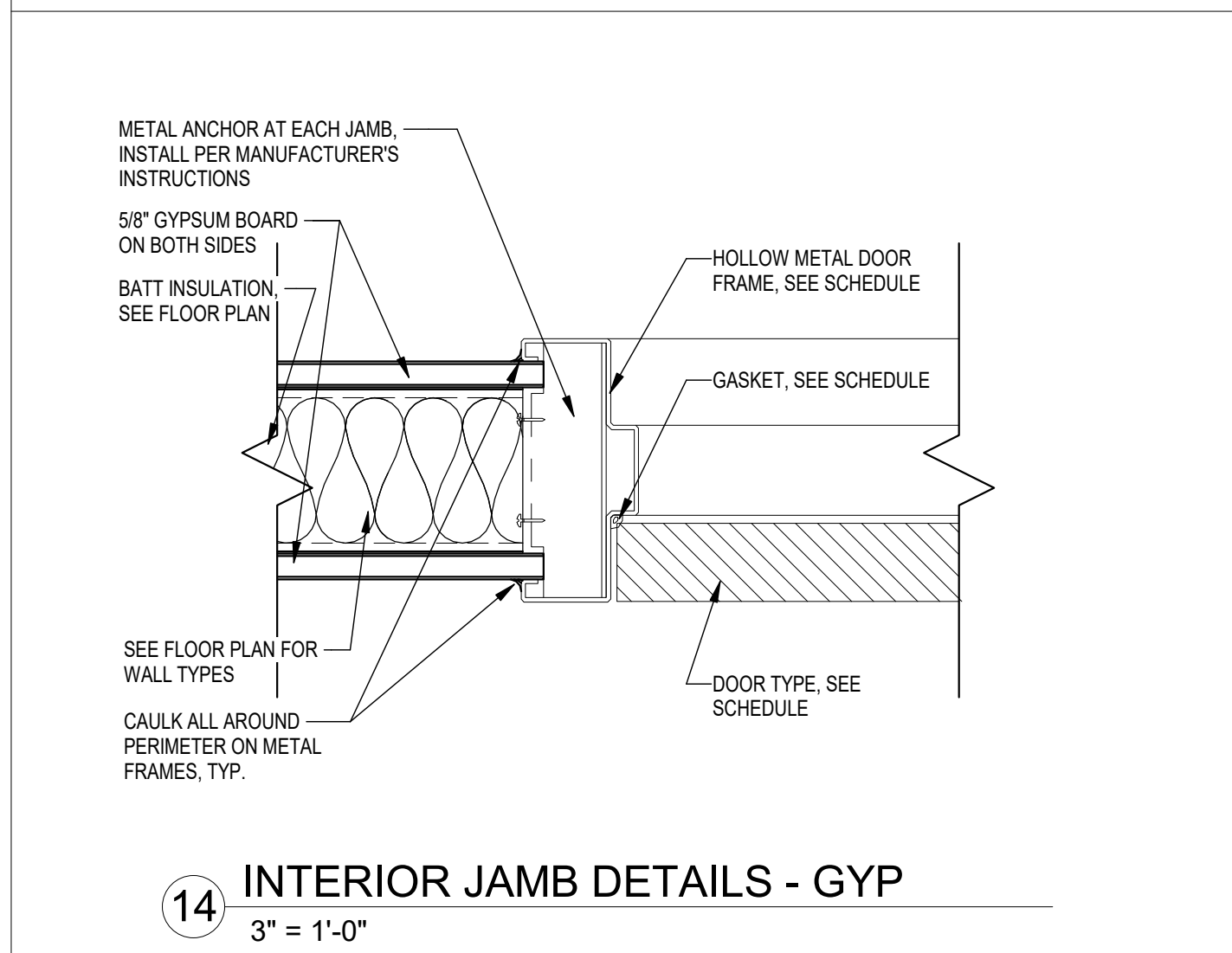
9 STOREFRONT THRESHOLD DETAILS
3" = 1'-0"



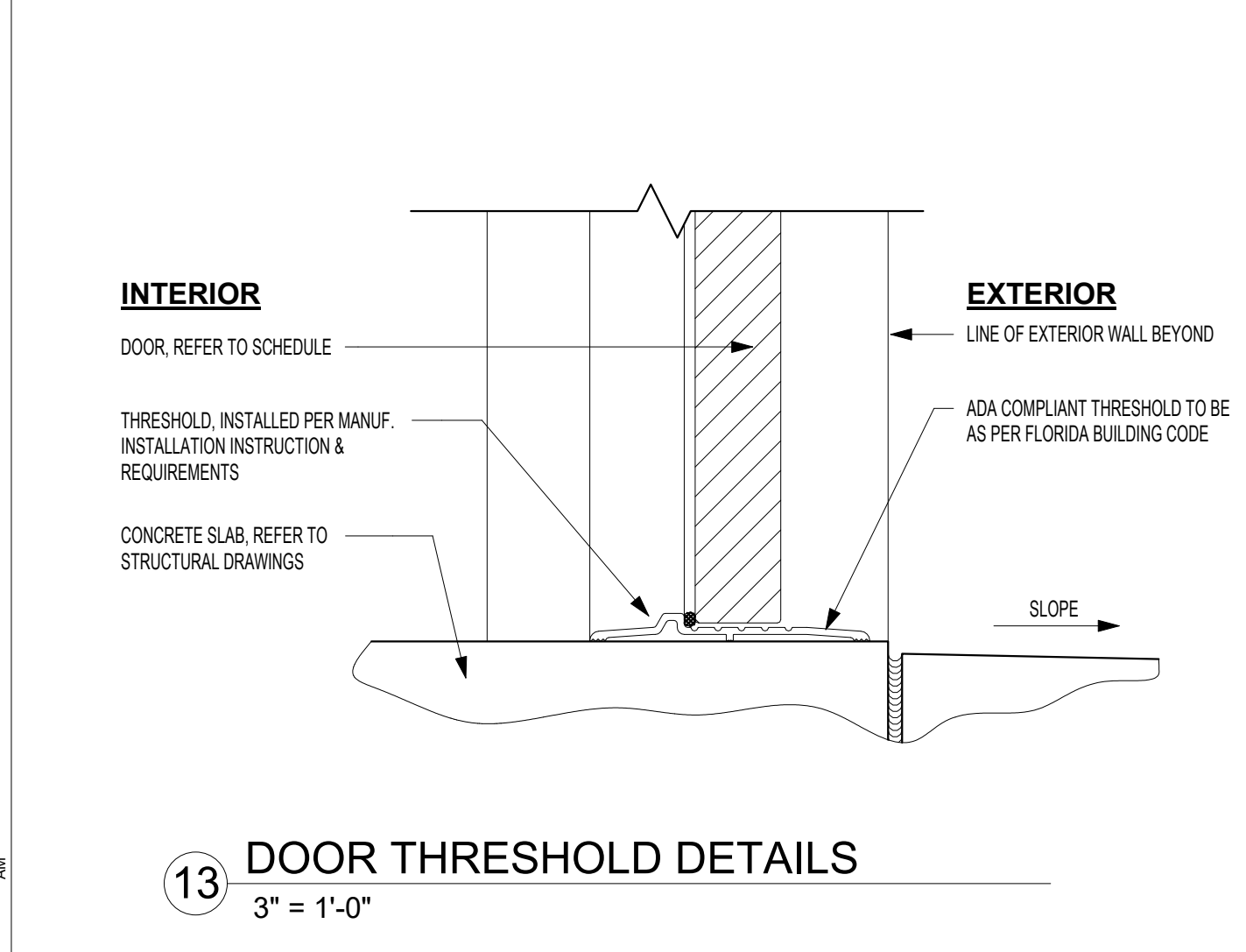
16 INTERIOR HEAD DETAILS - 2 HOUR
3" = 1'-0"



15 INTERIOR HEAD DETAILS - GYP
3" = 1'-0"



14 INTERIOR JAMB DETAILS - GYP
3" = 1'-0"



13 DOOR THRESHOLD DETAILS
3" = 1'-0"

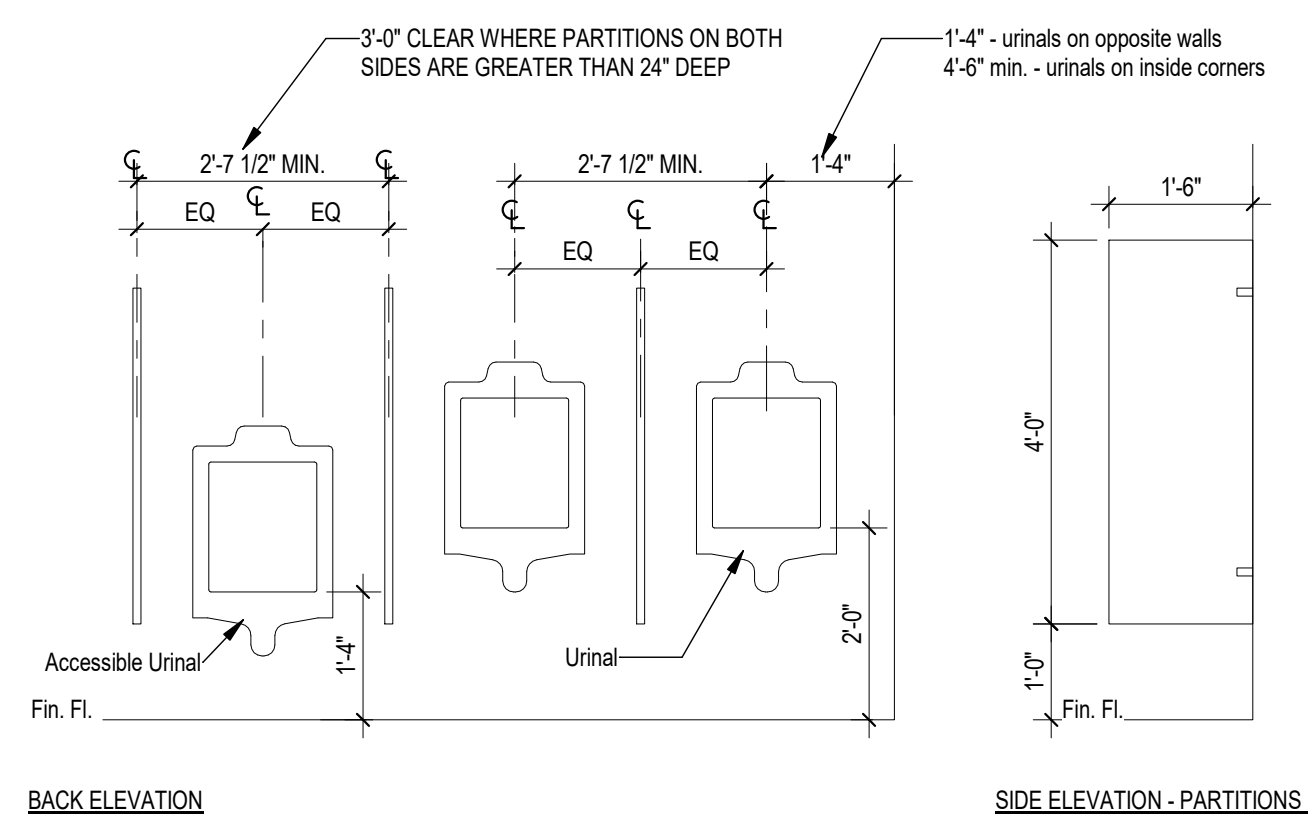
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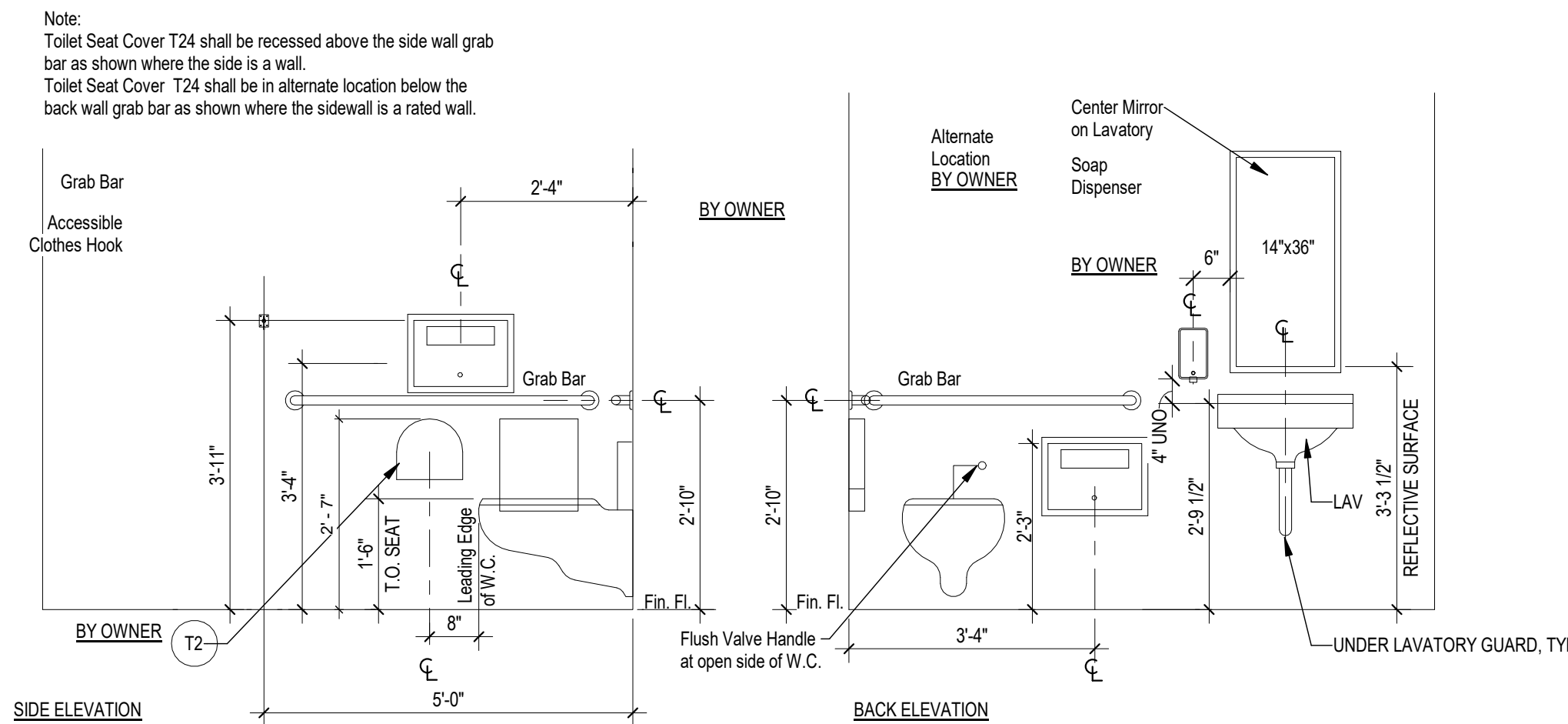
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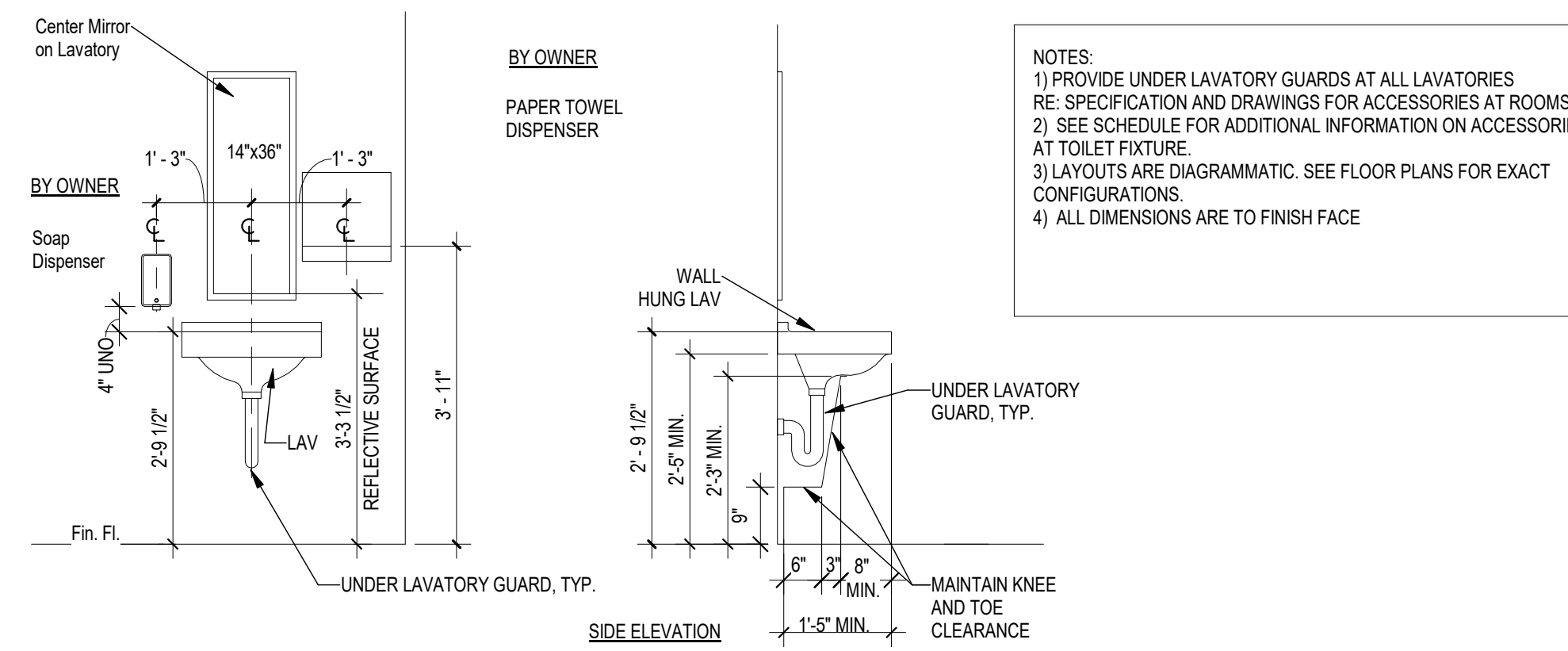
1 URINALS & URINAL PARTITIONS

1/2" = 1'-0"



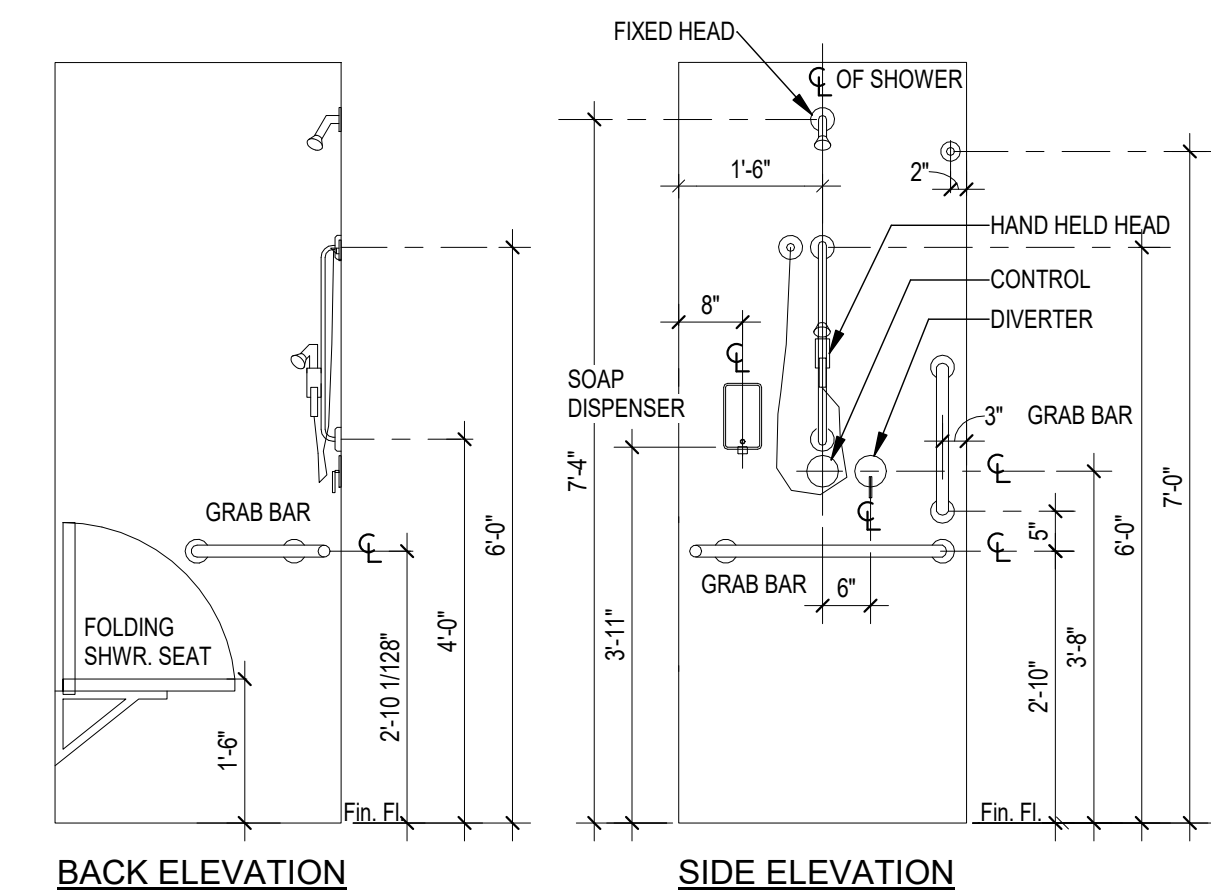
2 TYPICAL ACCESSIBLE TOILET STALL

1/2" = 1'-0"



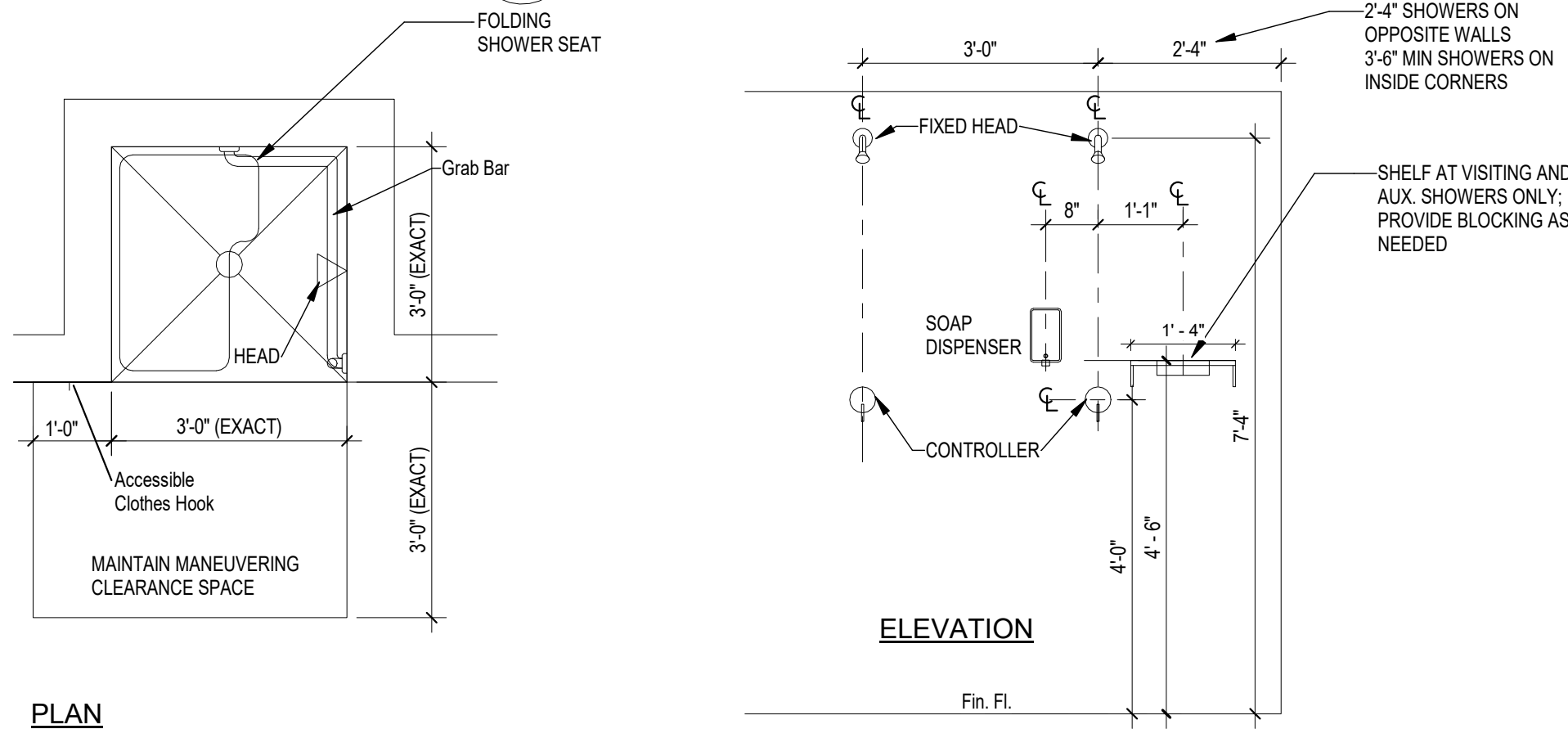
3 TYPICAL WALL MOUNT LAVATORY

1/2" = 1'-0"



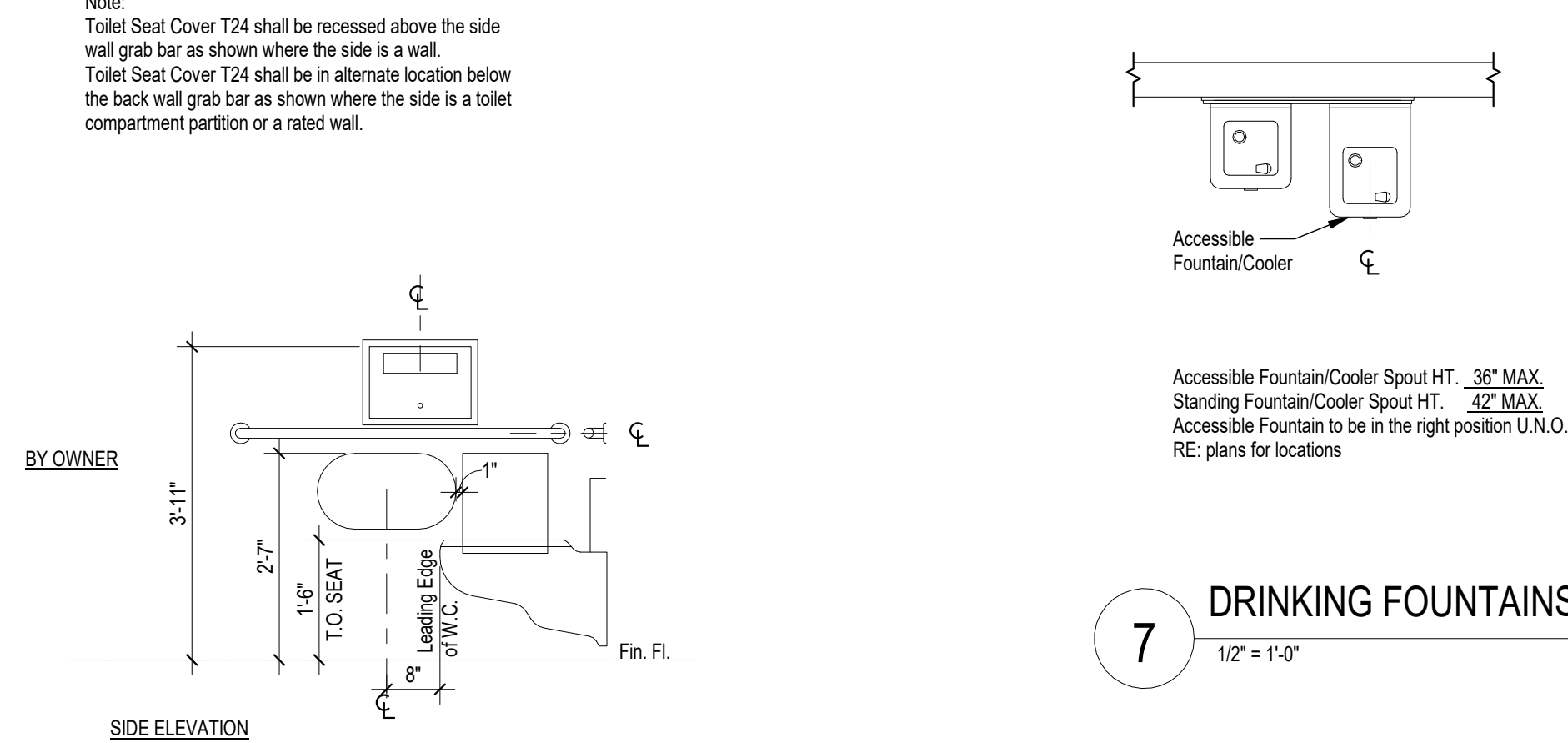
5 ACCESSIBLE SHOWER STALL - TYPE 'SA'

1/2" = 1'-0"



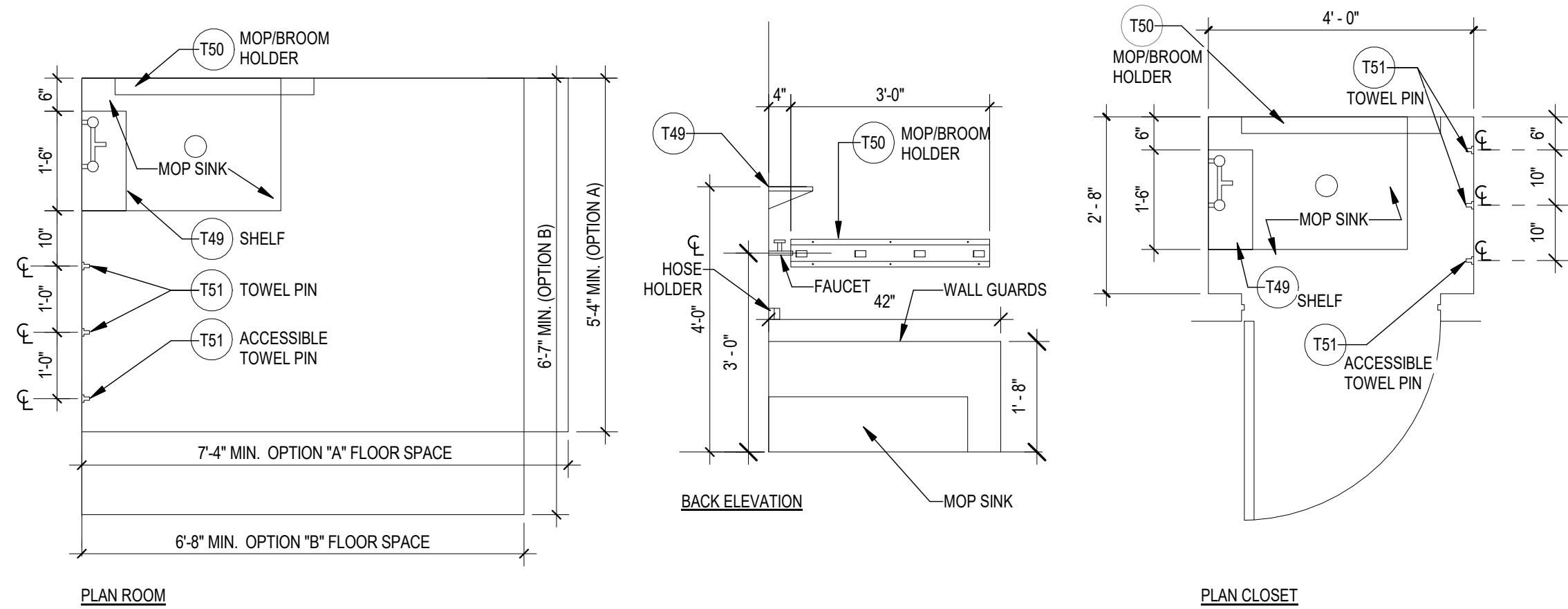
6 TYPICAL SHOWER ROOM - TYPE 'ST'

1/2" = 1'-0"



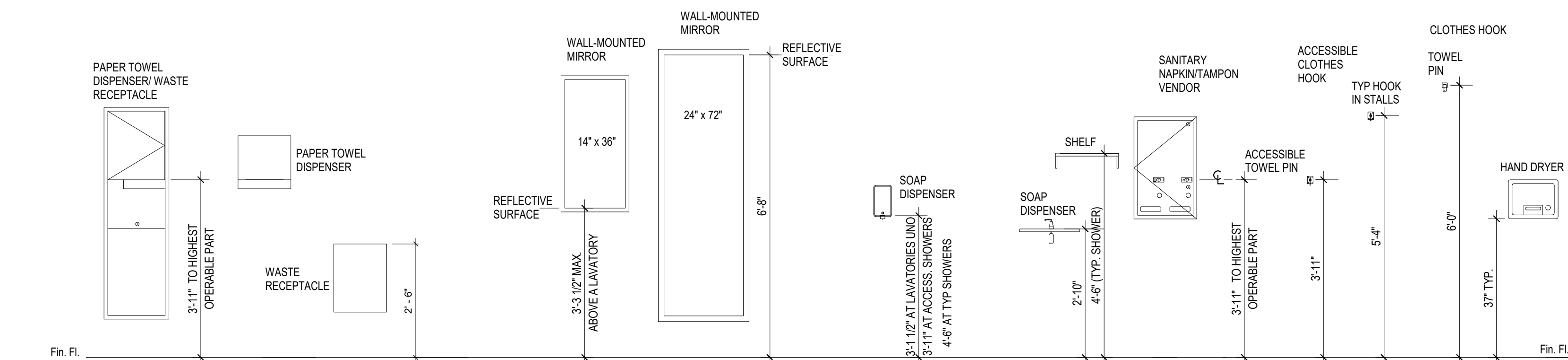
7 DRINKING FOUNTAINS

1/2" = 1'-0"



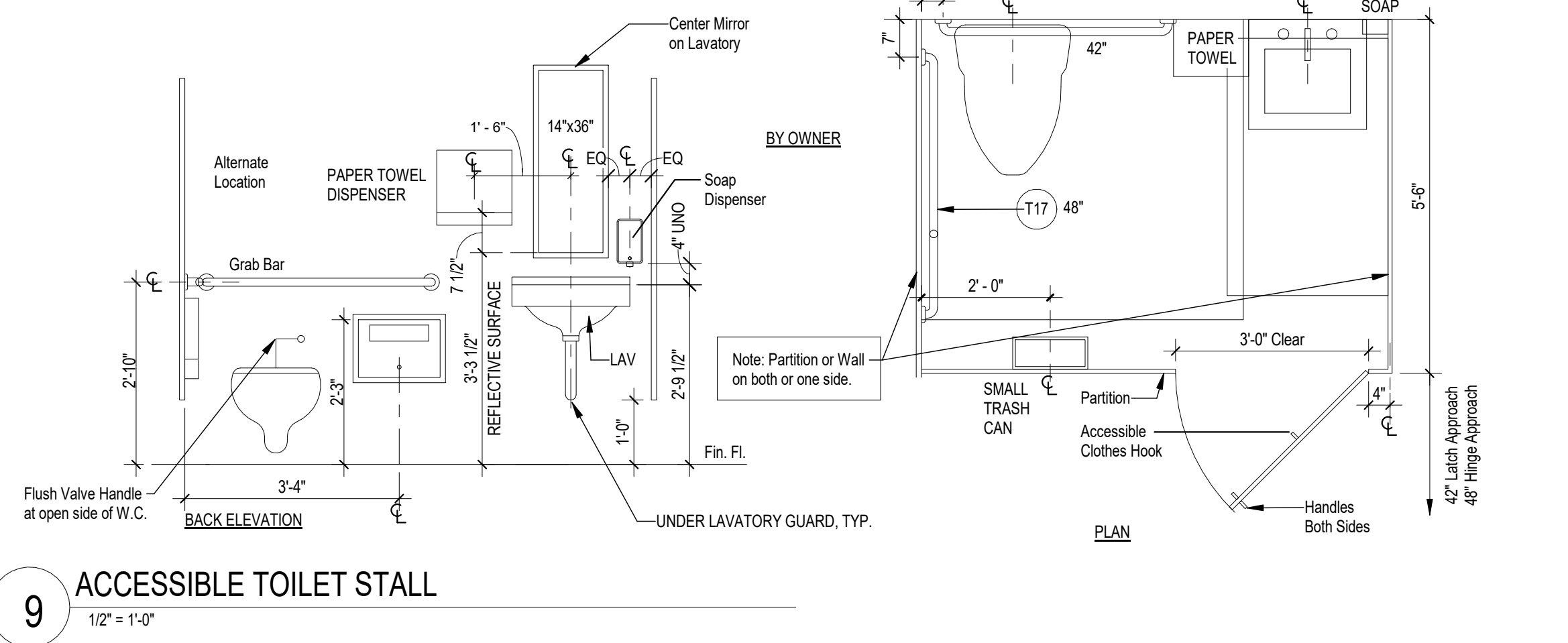
8 JANITOR'S ROOM-CLOSETS

1/2" = 1'-0"



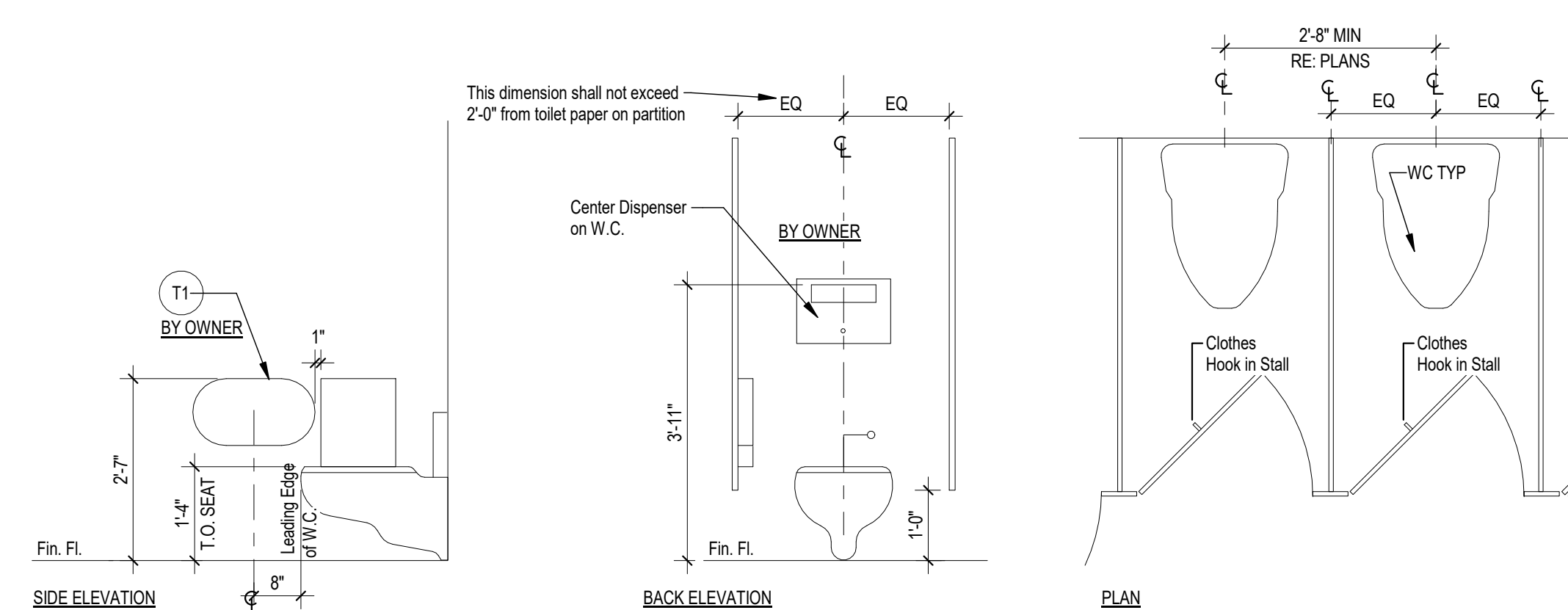
10 ACCESSORY MOUNTING HEIGHTS

1/2" = 1'-0"



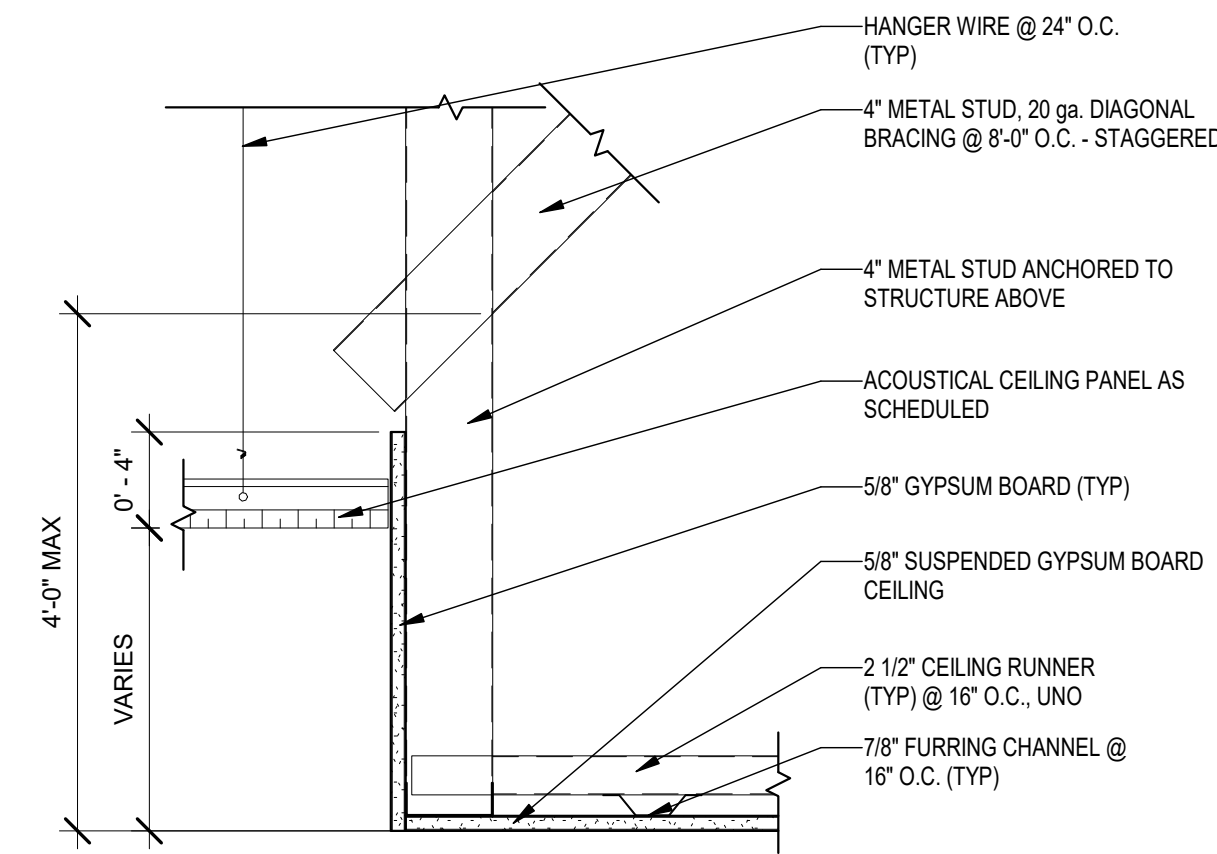
9 ACCESSIBLE TOILET STALL

1/2" = 1'-0"

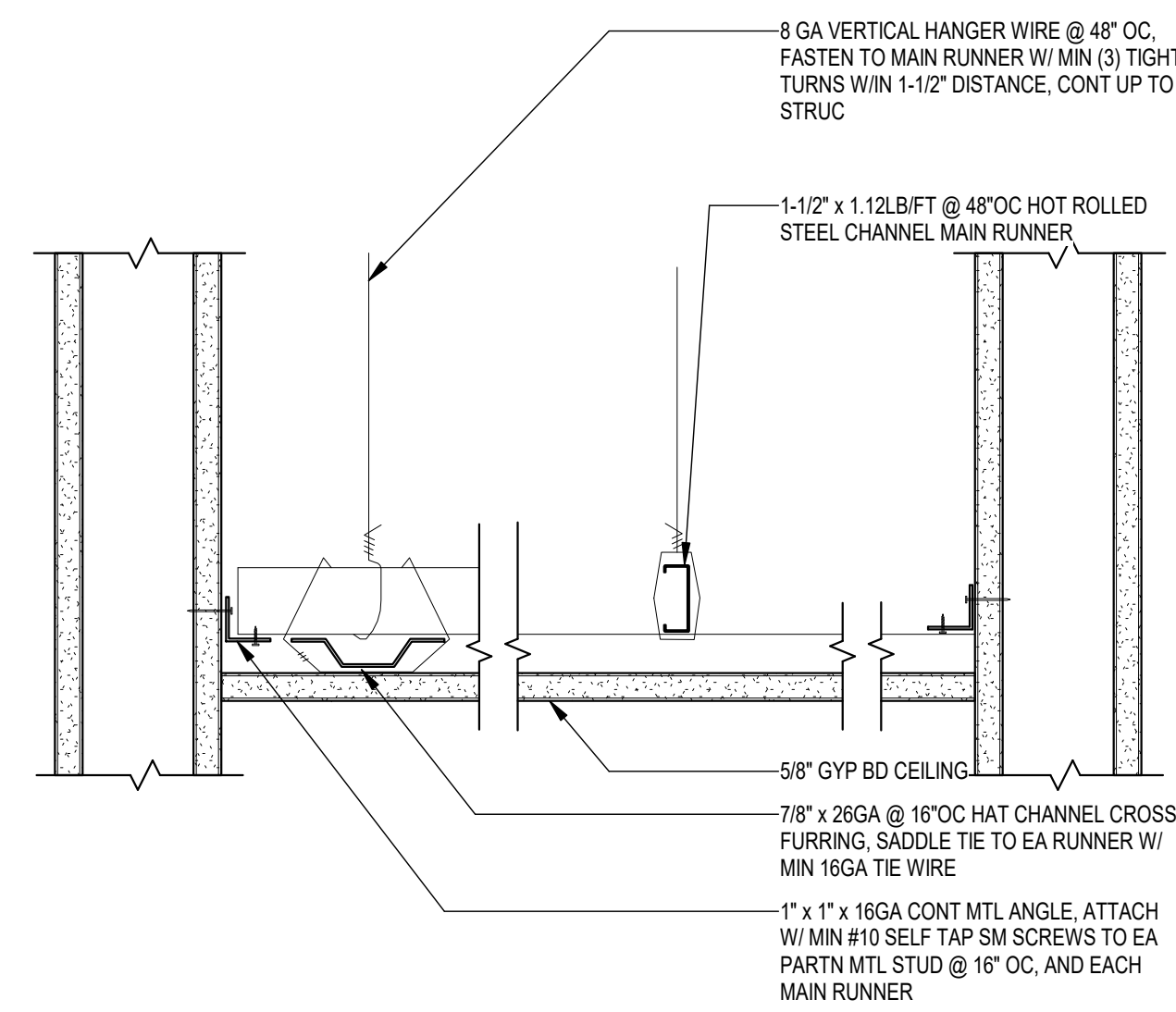


11 TYPICAL TOILET STALL

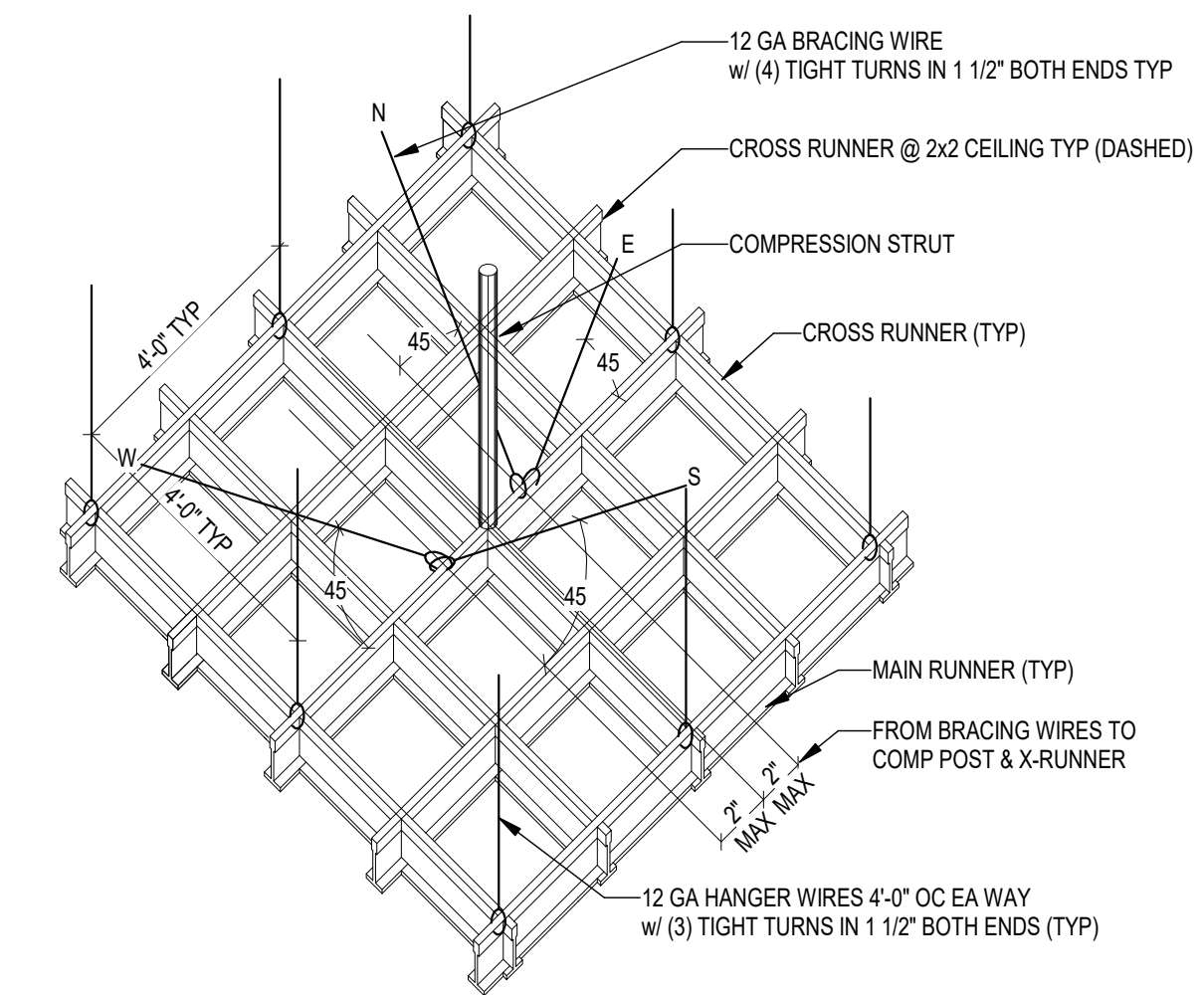
1/2" = 1'-0"



3 SUSPENDED ACT CEILING/GWB FASCIA
1 1/2" = 1'-0"



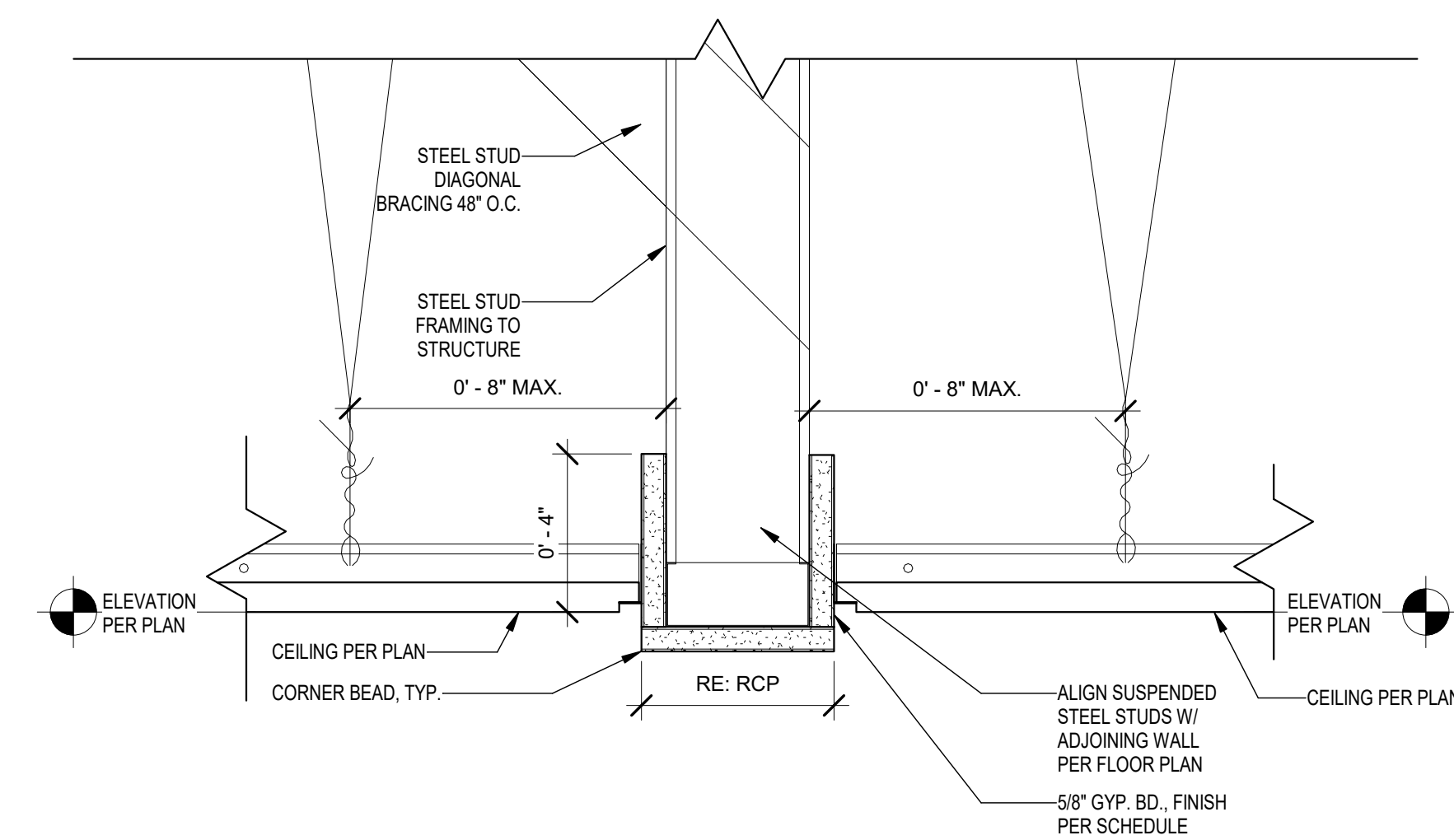
4 SUSPENDED GWB CEILING
3" = 1'-0"



NOTE:
COMPRESSION STRUTS: STEEL SECTION WITH L/R RATIO OF 200 MAX STARTING NOT MORE THAN 3'-0" FROM ADJACENT WALLS TO SUPPORT A TRIBUTARY AREA OF 144 S. ATTACH TO MAIN RUNNER WITH 2" OF CROSS RUNNER WITH (2) #12 SDST SCREWS & TO STRUCTURE W/ 2 #12X2" SCREWS TO WOOD OR 3/16" ANCHOR AT STL OR CONC.

COMPRESSION STRUT SHALL NOT REPLACE HANGER WIRE.

1 SUSPENDED T-BAR CEILING
3" = 1'-0"



2 DETAIL AT BULKHEAD
3" = 1'-0"

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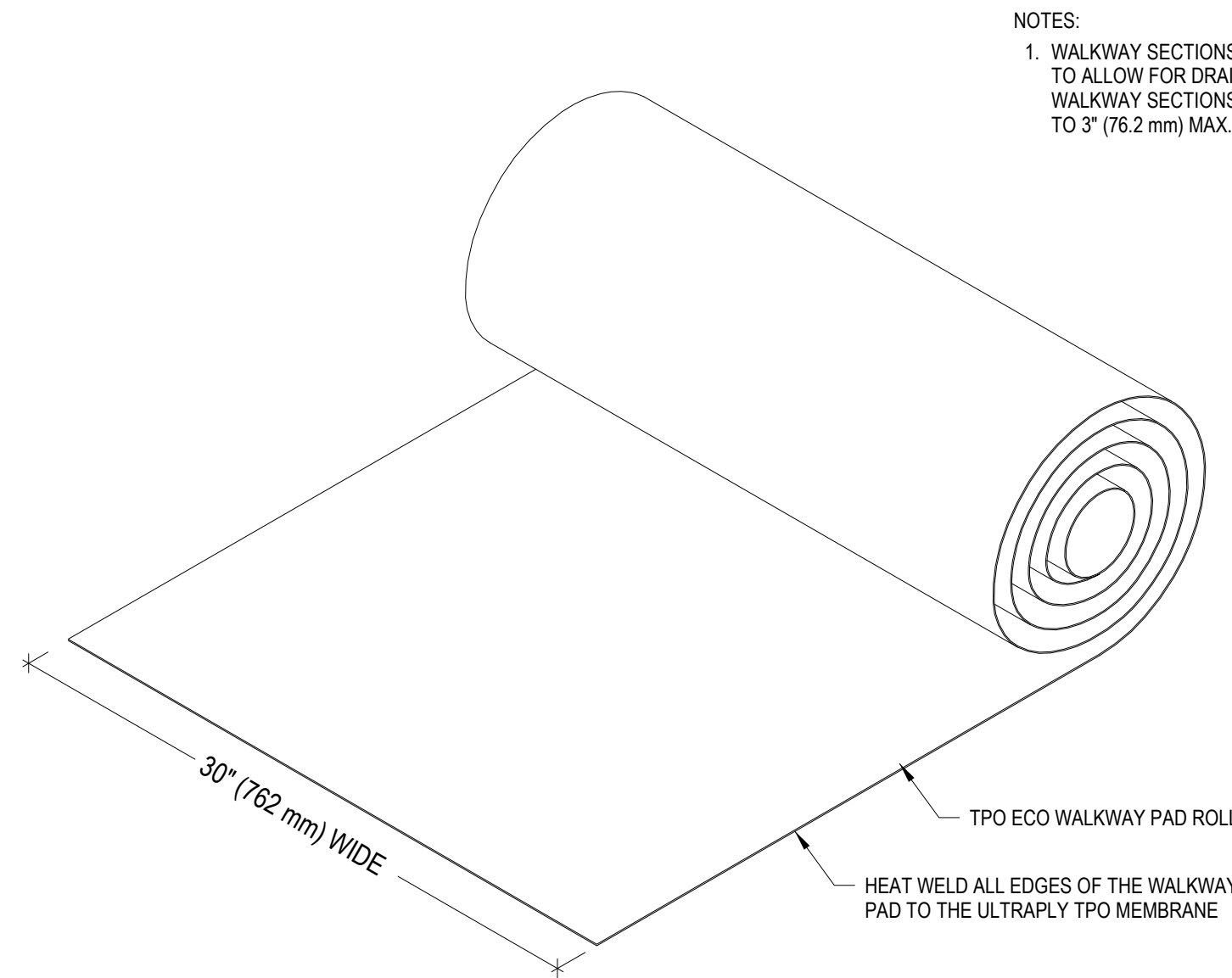
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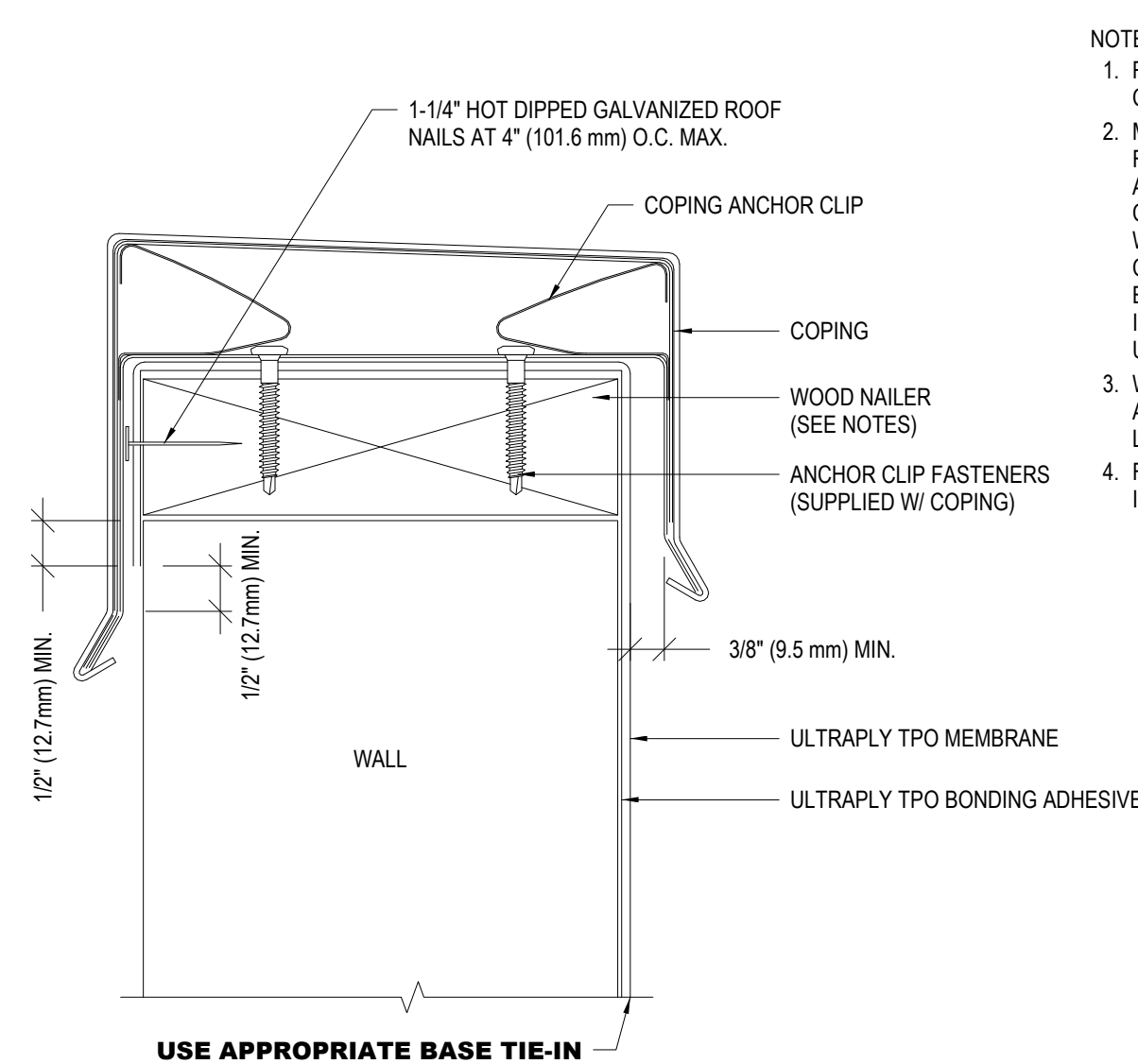
A-550

1 WALKWAY PAD
6" = 1'-0"



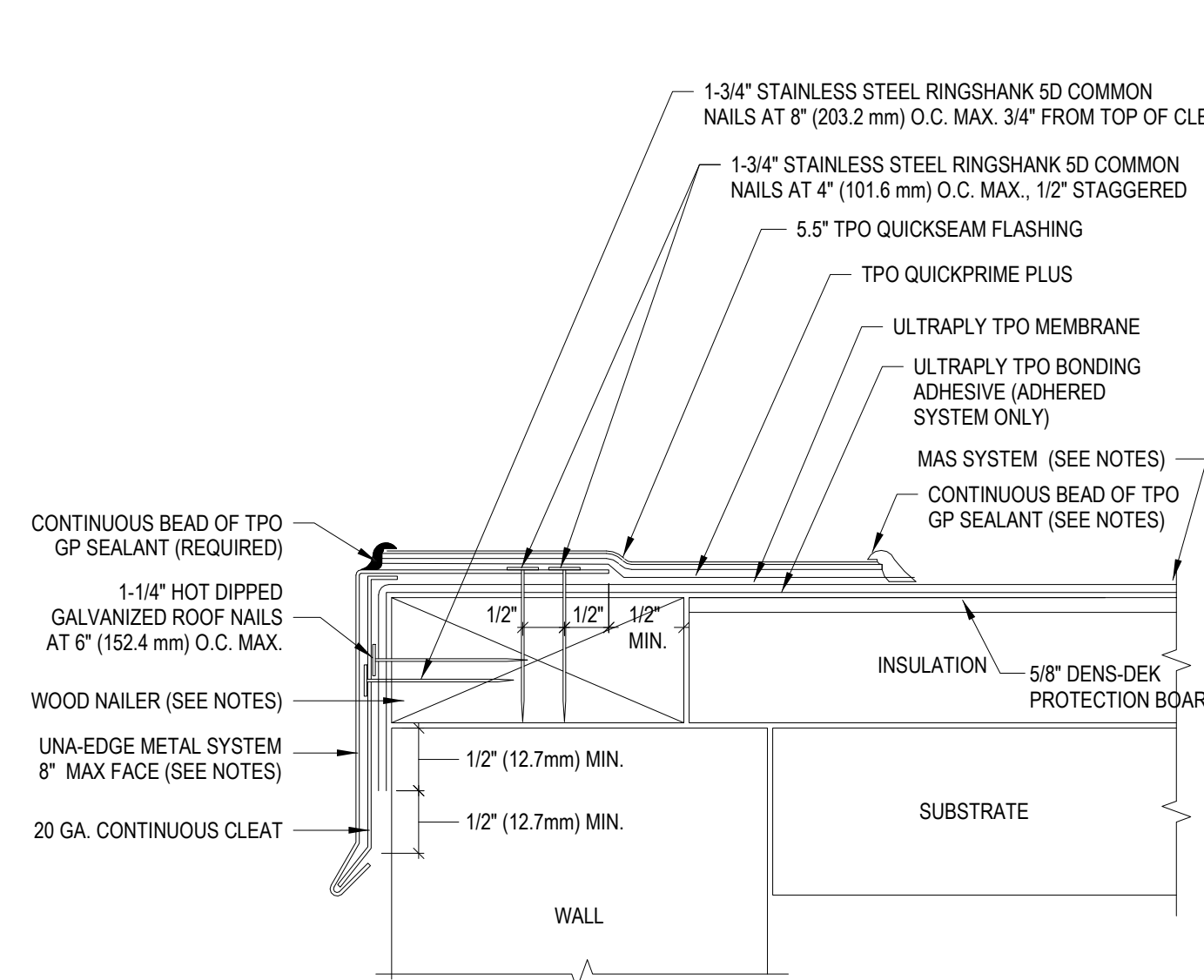
NOTES:
1. WALKWAY SECTIONS SHOULD BE SPACED PROPERLY TO ALLOW FOR DRAINAGE. SPACING BETWEEN WALKWAY SECTIONS SHALL BE 1" (25.4 mm) MIN. TO 3" (76.2 mm) MAX.

2 TERMINATION AT TOP WALL w/ UNA EDGE COPING
12" = 1'-0"



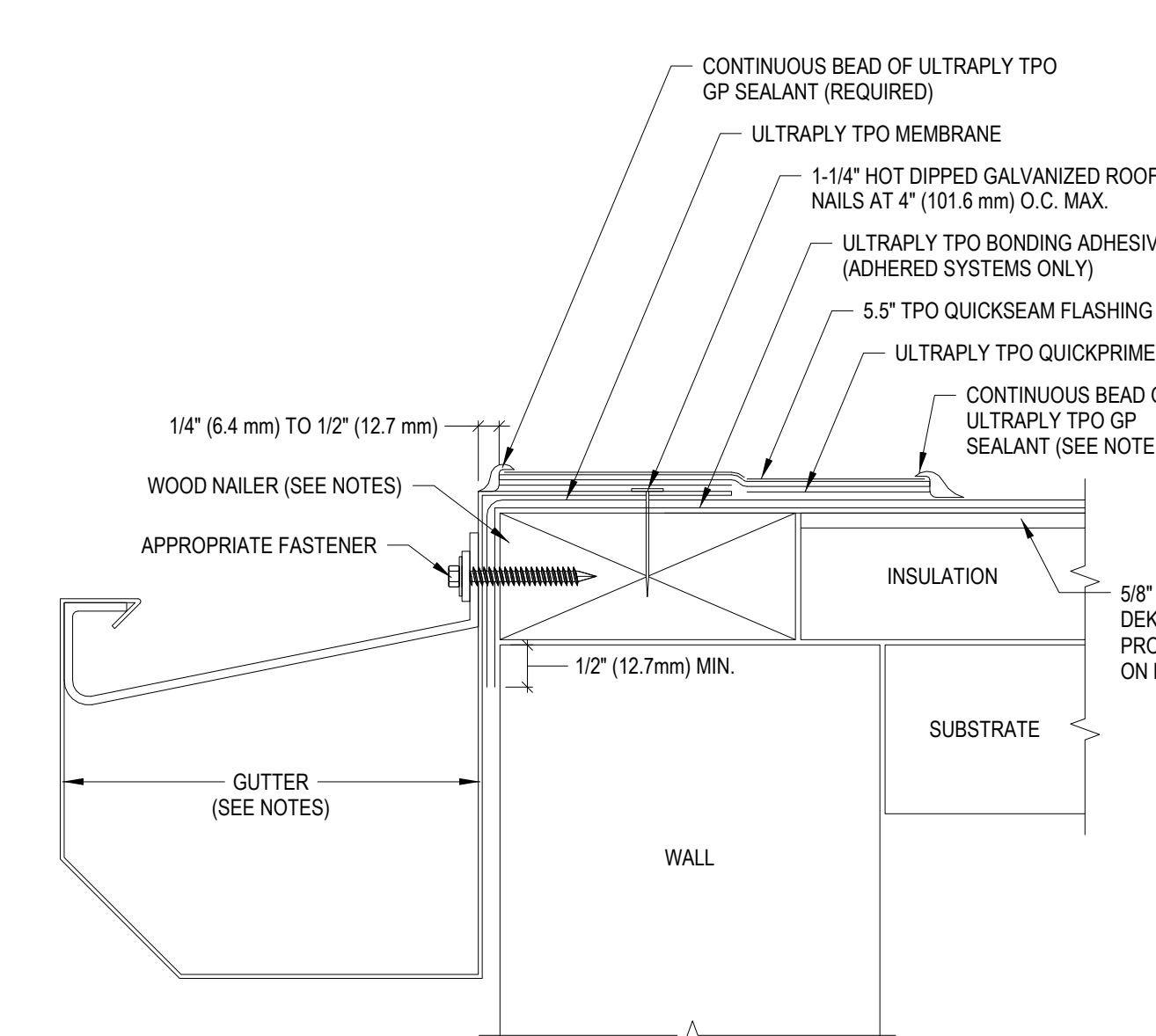
NOTES:
1. REFER TO MANUF. WEBSITE FOR MOST CURRENT INFORMATION.
2. METAL COPING IS ACCEPTABLE FOR USE IN THIS DETAIL PROVIDED FABRICATION AND INSTALLATION IS IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS. HOWEVER, WATERTIGHT INTEGRITY OF WALL AND METAL COPING SHALL BE ENSURED BY OTHERS AND BE EXCLUDED FROM WARRANTY COVERAGE IN THE EVENT NON-FIRESTONE COPING IS UTILIZED.
3. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
4. FASTEN COPING CLEAT AS PER SUPPLIED INSTRUCTIONS.

3 ROOF EDGE WITH UNA EDGE (DRIP EDGE)
6" = 1'-0"



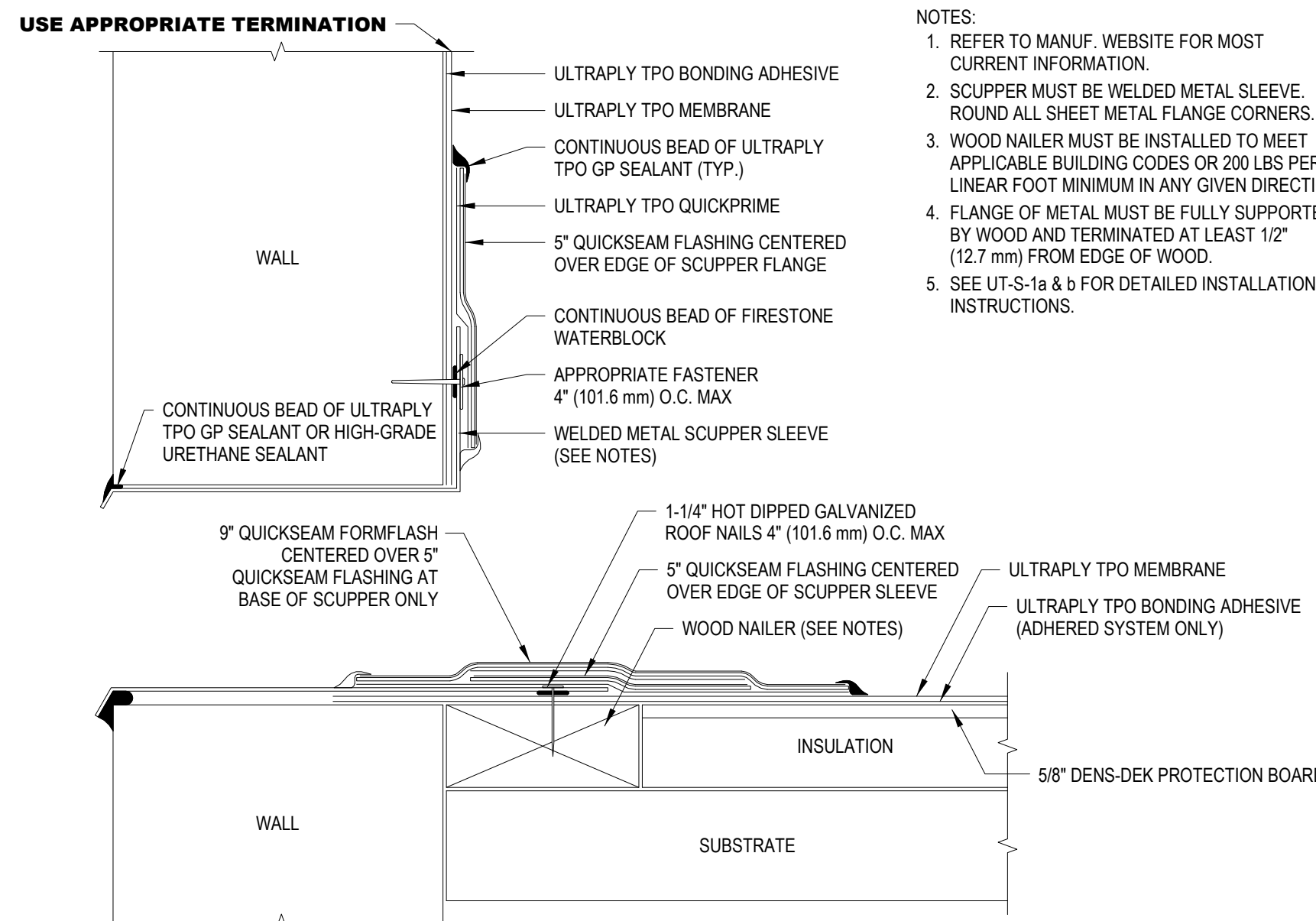
NOTES:
1. REFER TO MANUF. WEBSITE FOR MOST CURRENT INFORMATION.
2. 5.5" TPO QUICKSEAM MUST EXTEND TO WITHIN 3/8" (9.6 mm) OF THE GRAVELSTOP RISE.
3. INSTALL METAL WORK TO FIRESTONE INSTALLATION INSTRUCTIONS.
4. GP SEALANT IS REQUIRED ALONG FLASHING WHEN ROOF SLOPE IS 1" (25.4 mm) PER FOOT OR GREATER.
5. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
6. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (12.7 mm) FROM EDGE OF WOOD.
7. MECHANICALLY ATTACHED SYSTEMS MUST USE FASTENER AND PLATE OR QUICKSEAM RPP TIE-IN WITHIN 12" (304.8 mm) OF GRAVELSTOP.

4 ROOF EDGE GUTTER WITH FLANGE
6" = 1'-0"



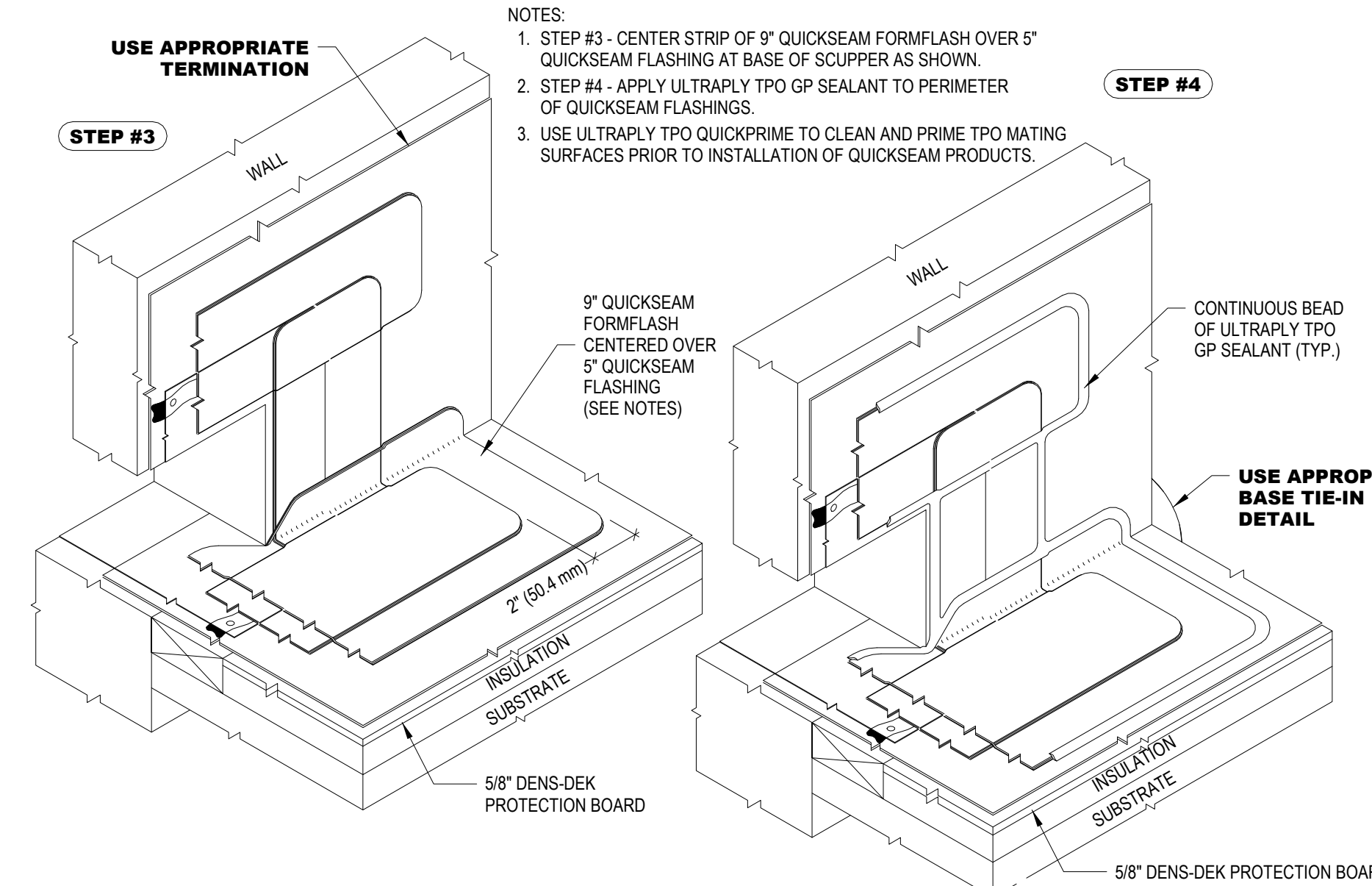
NOTES:
1. REFER TO MANUF. WEBSITE FOR MOST CURRENT INFORMATION.
2. GP SEALANT IS REQUIRED ALONG ENTIRE UPSLOPE EDGE OF QUICKSEAM FLASHING WHEN ROOF SLOPE IS 1" (25.4 mm) PER FOOT OR GREATER.
3. ROUND ALL METAL CORNERS AND PLACE BACK OF GUTTER STRAP 1/4" (6.4 mm) BELOW TOP OF WOOD NAILER.
4. DO NOT PRE-NAIL MEMBRANE TO THE FACE OF THE WOOD NAILER.
5. ANCHOR GUTTER IN ACCORDANCE WITH SMACNA RECOMMENDATIONS.
6. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
7. FLANGE OF METAL GUTTER MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (12.7 mm) FROM EDGE OF WOOD.
8. CONTACT FIRESTONE ROOFING SOLUTIONS FOR BALLASTED ROOF SYSTEMS.
9. IF THE FLANGE OF THE METAL GUTTER IS NOT COMPLETELY COVERED WITH QUICKSEAM FLASHING, THEN AN ADDITIONAL PIECE OF QUICKSEAM FLASHING SHALL BE INSTALLED AT ALL METAL SPLICES. REFER TO UT-RE-27.

5 THRU WALL SCUPPER (WELDED SLEEVE)
6" = 1'-0"



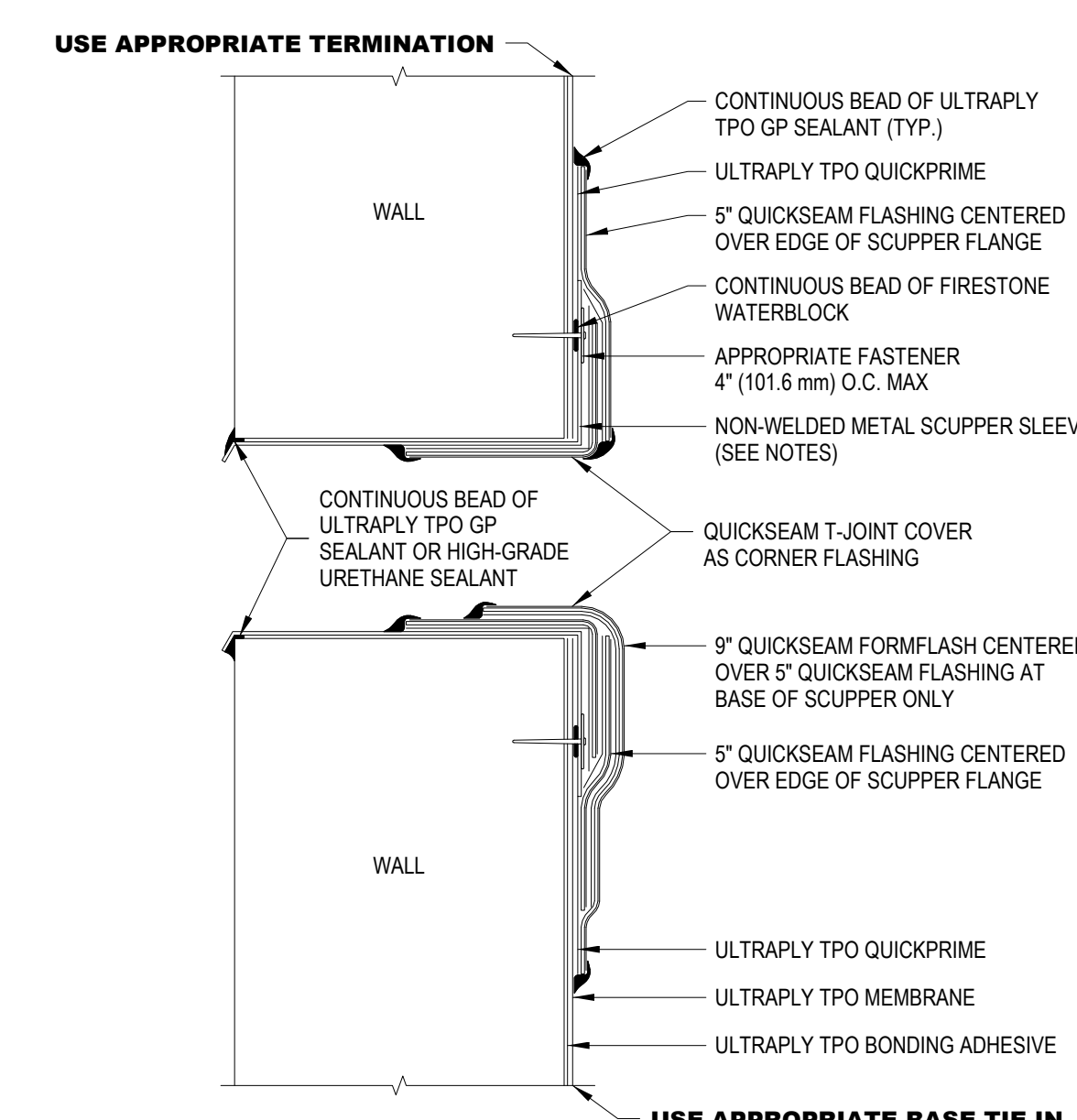
NOTES:
1. REFER TO MANUF. WEBSITE FOR MOST CURRENT INFORMATION.
2. SCUPPER MUST BE WELDED METAL SLEEVE. ROUND ALL SHEET METAL FLANGE CORNERS.
3. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
4. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (12.7 mm) FROM EDGE OF WOOD.
5. SEE UT-S-1a & b FOR DETAILED INSTALLATION INSTRUCTIONS.

6 THRU WALL SCUPPER - STEPS
6" = 1'-0"



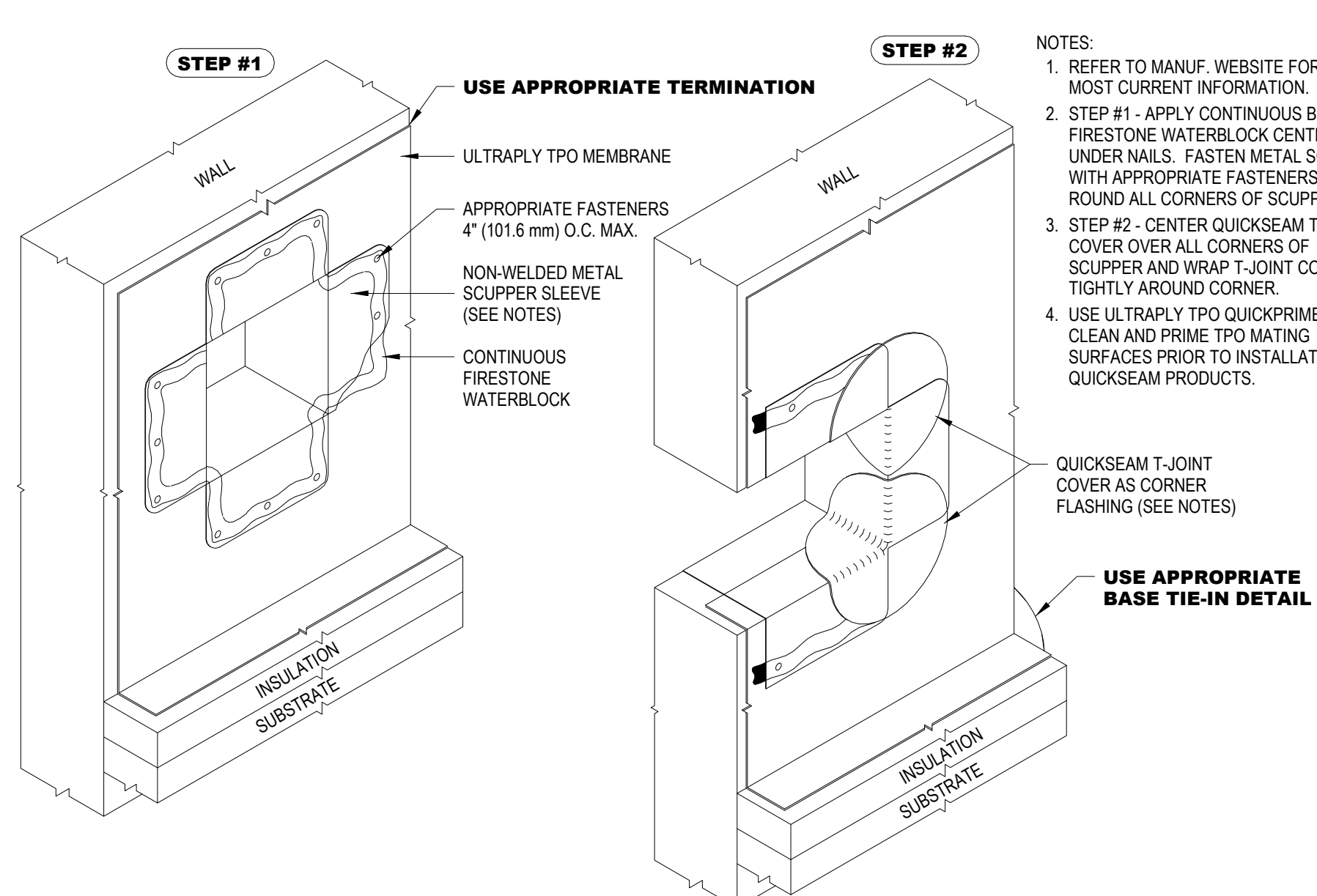
NOTES:
1. STEP #3 - CENTER STRIP OF 9" QUICKSEAM FORMFLASH OVER 5" QUICKSEAM FLASHING AT BASE OF SCUPPER AS SHOWN.
2. STEP #4 - APPLY ULTRAPLY TPO GP SEALANT TO PERIMETER OF QUICKSEAM FLASHINGS.
3. USE ULTRAPLY TPO QUICKPRIME TO CLEAN AND PRIME TPO MATING SURFACES PRIOR TO INSTALLATION OF QUICKSEAM PRODUCTS.

7 OVERFLOR THRU WALL SCUPPER
6" = 1'-0"



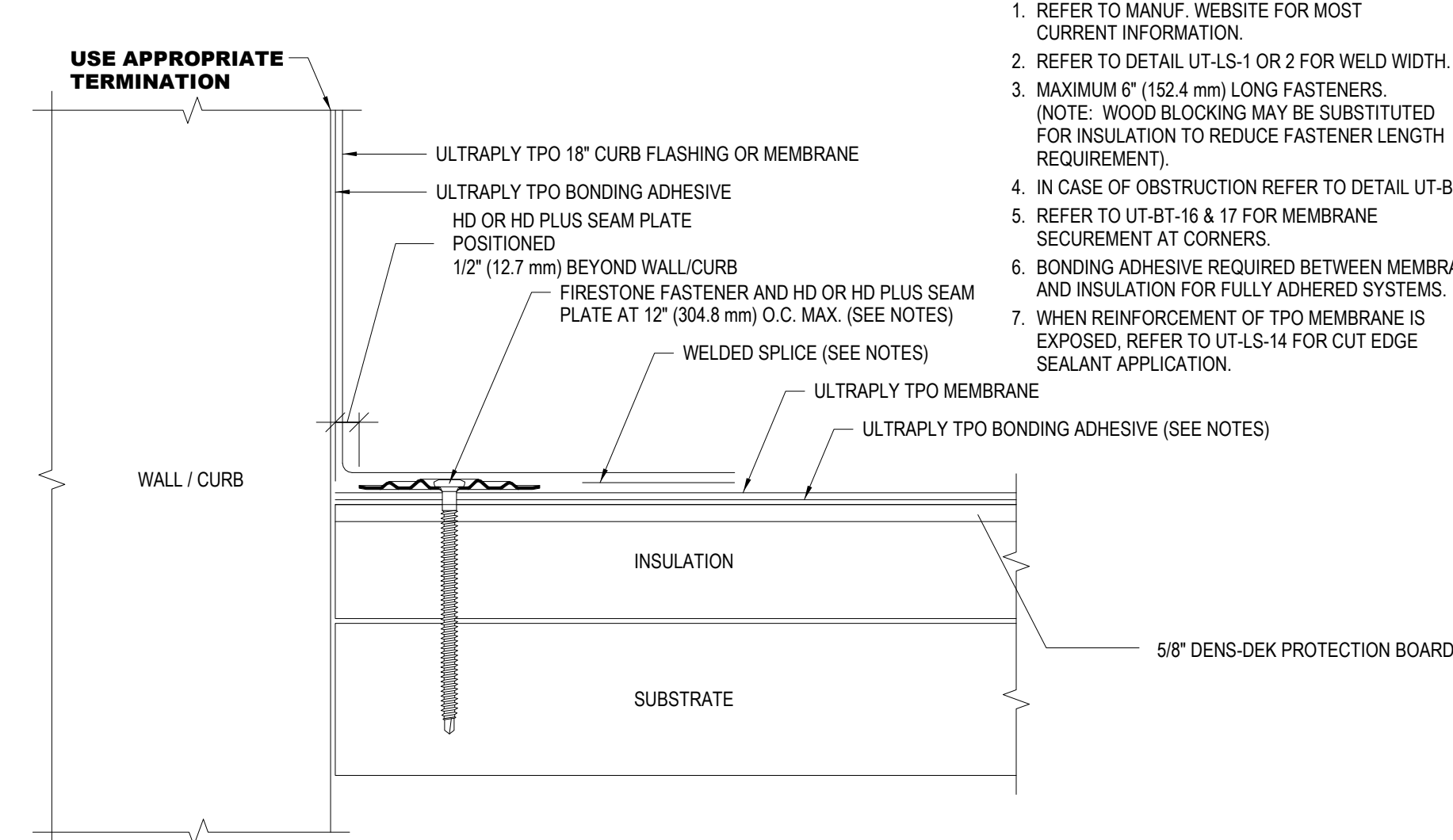
NOTES:
1. REFER TO MANUF. WEBSITE FOR MOST CURRENT INFORMATION.
2. ROUND ALL SHEET METAL FLANGE CORNERS.
3. SEE UT-S-4a, b & c FOR DETAILED INSTALLATION INSTRUCTIONS.

8 OVERFLOW THRU WALL SCUPPER - STEPS
6" = 1'-0"

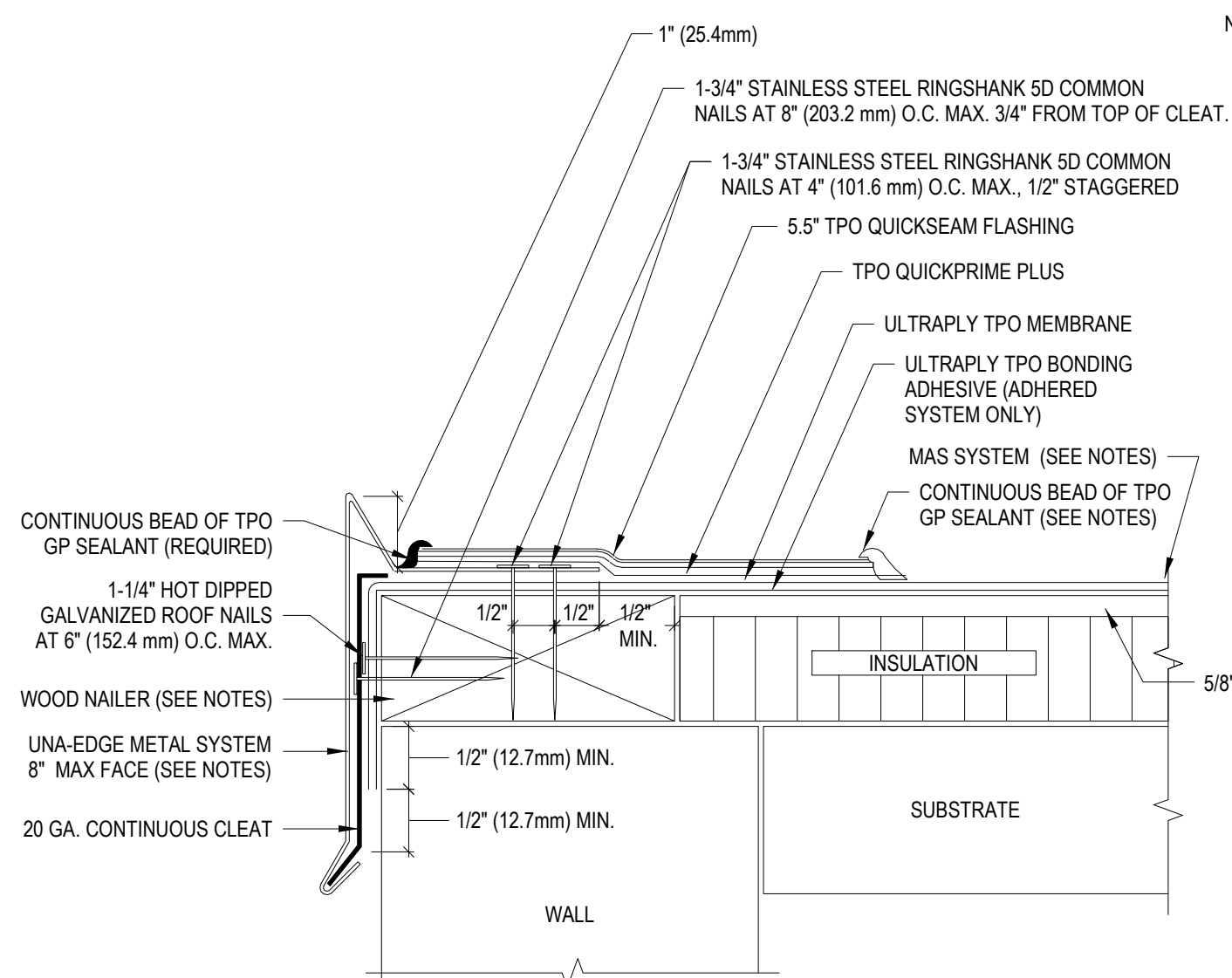


NOTES:
1. REFER TO MANUF. WEBSITE FOR MOST CURRENT INFORMATION.
2. STEP #1 - APPLY CONTINUOUS BEAD OF FIRESTONE WATERBLOCK CENTERED UNDER NAILS. FASTEN METAL SCUPPER WITH APPROPRIATE FASTENERS AND ROUND ALL CORNERS OF SCUPPER.
3. STEP #2 - CENTER QUICKSEAM T-JOINT COVER OVER ALL CORNERS OF SCUPPER AND WRAP T-JOINT COVER TIGHTLY AROUND CORNER.
4. USE ULTRAPLY TPO QUICKPRIME TO CLEAN AND PRIME TPO MATING SURFACES PRIOR TO INSTALLATION OF QUICKSEAM PRODUCTS.

9 BASE TIE-IN TO DECK
12" = 1'-0"

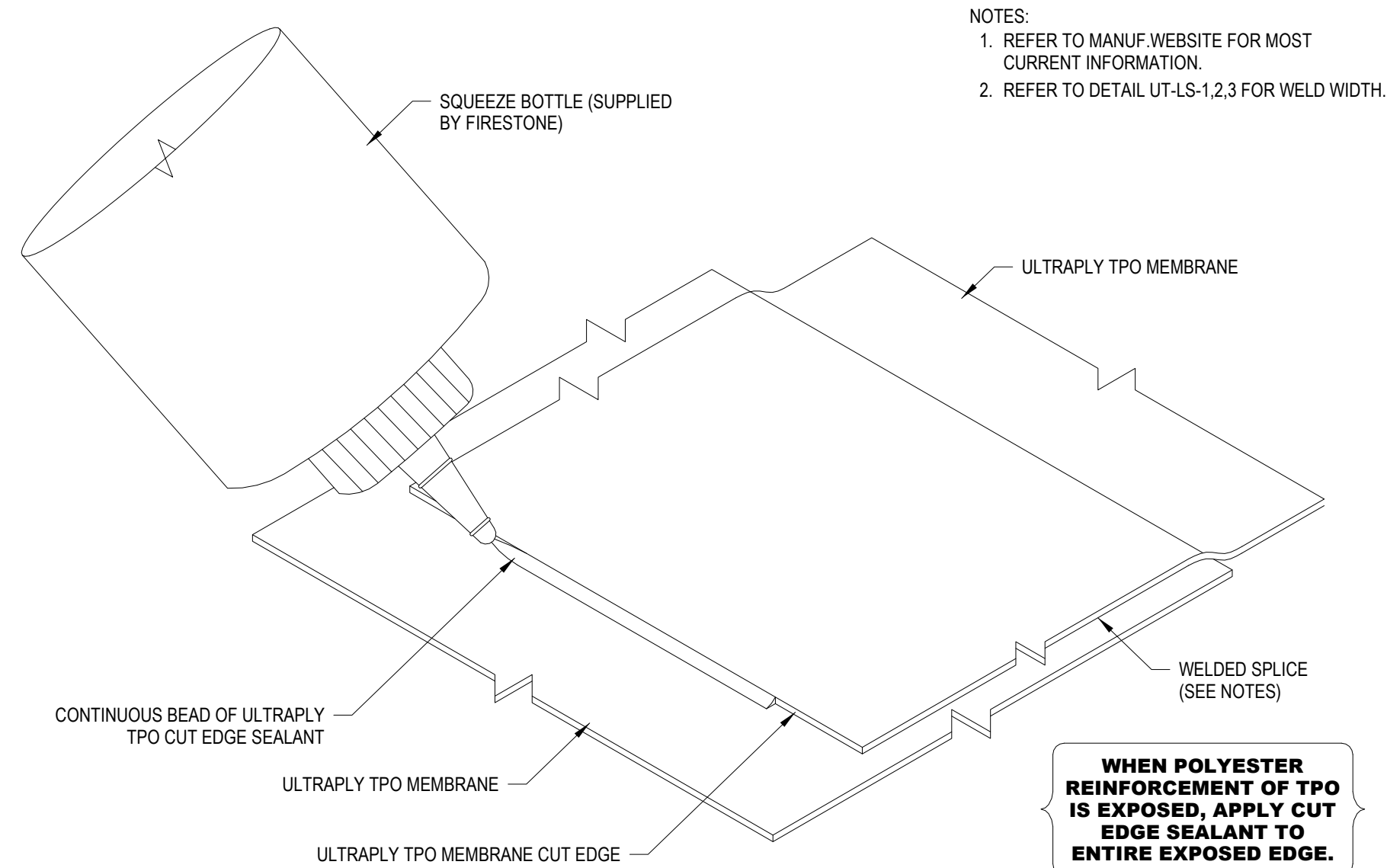


NOTES:
1. REFER TO MANUF. WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR 2 FOR WELD WIDTH.
3. MAXIMUM 6" (152.4 mm) LONG FASTENERS. (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENT).
4. IN CASE OF OBSTRUCTION REFER TO DETAIL UT-BT-5.
5. REFER TO UT-BT-16 & 17 FOR MEMBRANE SECUREMENT AT CORNERS.
6. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
7. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.



- NOTES:
1. REFER TO MANUF. WEBSITE FOR MOST CURRENT INFORMATION.
 2. 5.5\"/>

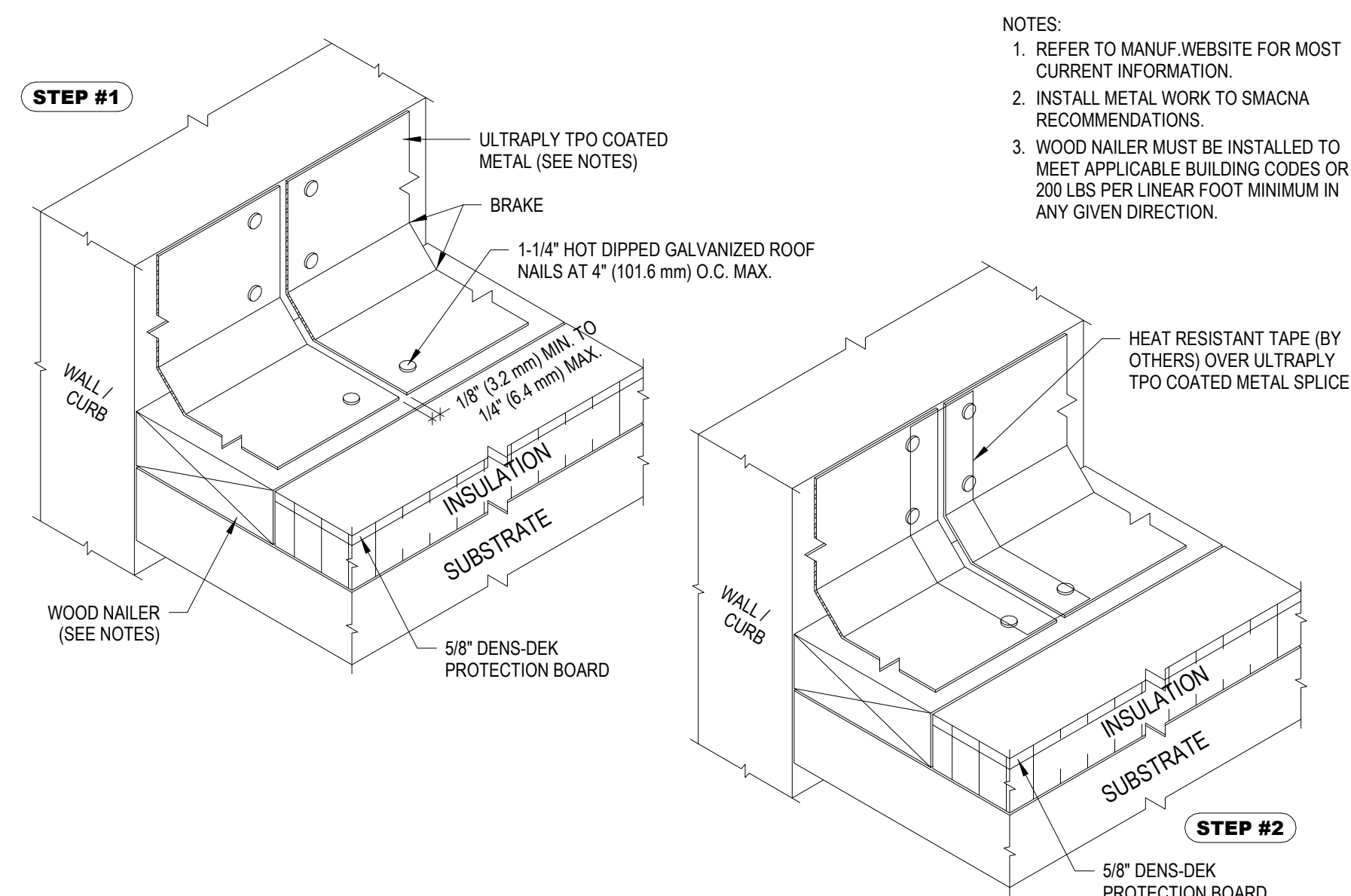
1 ROOF EDGE DETAILS
6\"/>



- NOTES:
1. REFER TO MANUF. WEBSITE FOR MOST CURRENT INFORMATION.
 2. REFER TO DETAIL UT-LS-1,2,3 FOR WELD WIDTH.

WHEN POLYESTER REINFORCEMENT OF TPO IS EXPOSED, APPLY CUT EDGE SEALANT TO ENTIRE EXPOSED EDGE.

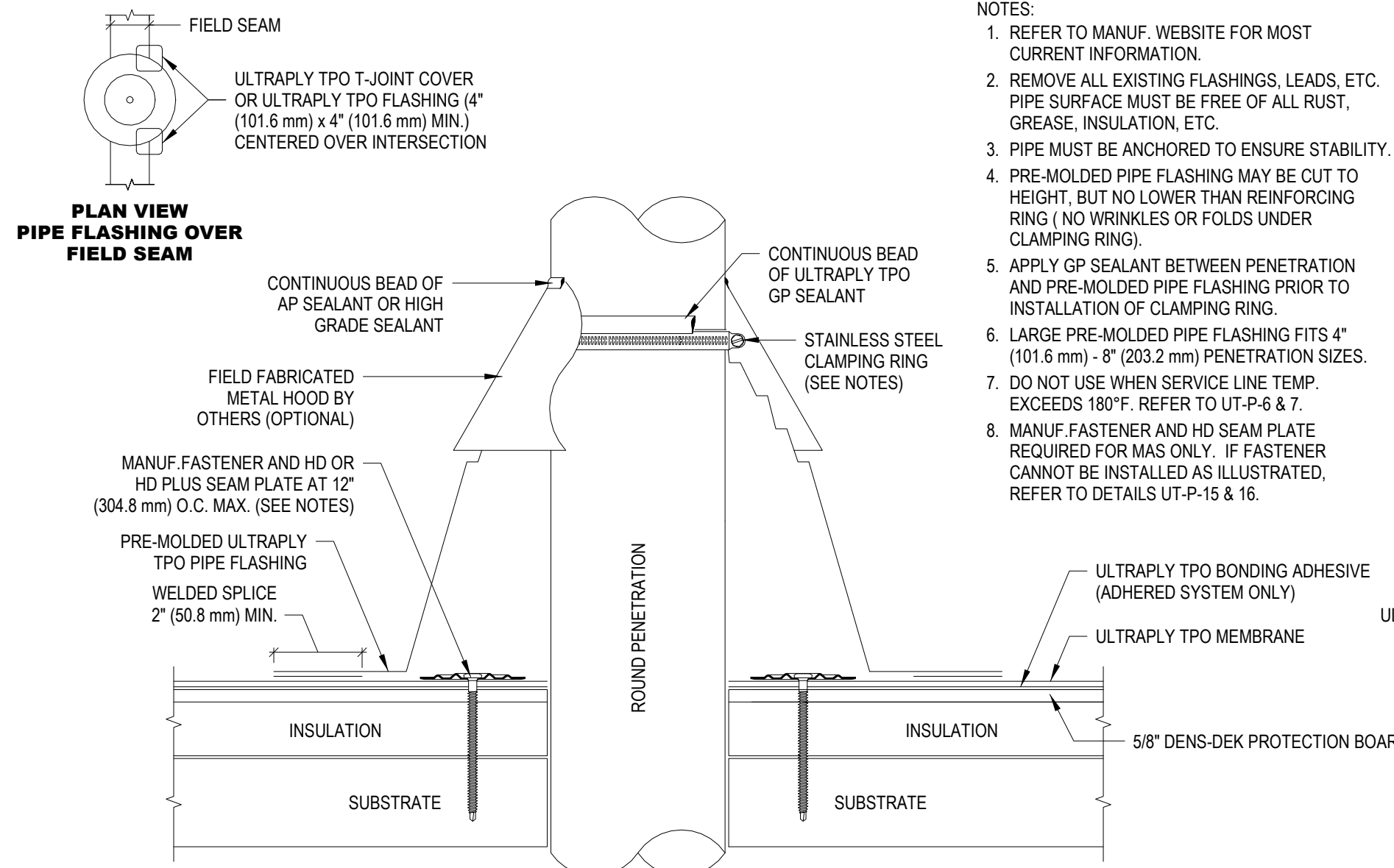
4 CUT EDGE TREATMENT APPLICATION
6\"/>



- NOTES:
1. REFER TO MANUF. WEBSITE FOR MOST CURRENT INFORMATION.
 2. INSTALL METAL WORK TO SMACNA RECOMMENDATIONS.
 3. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.

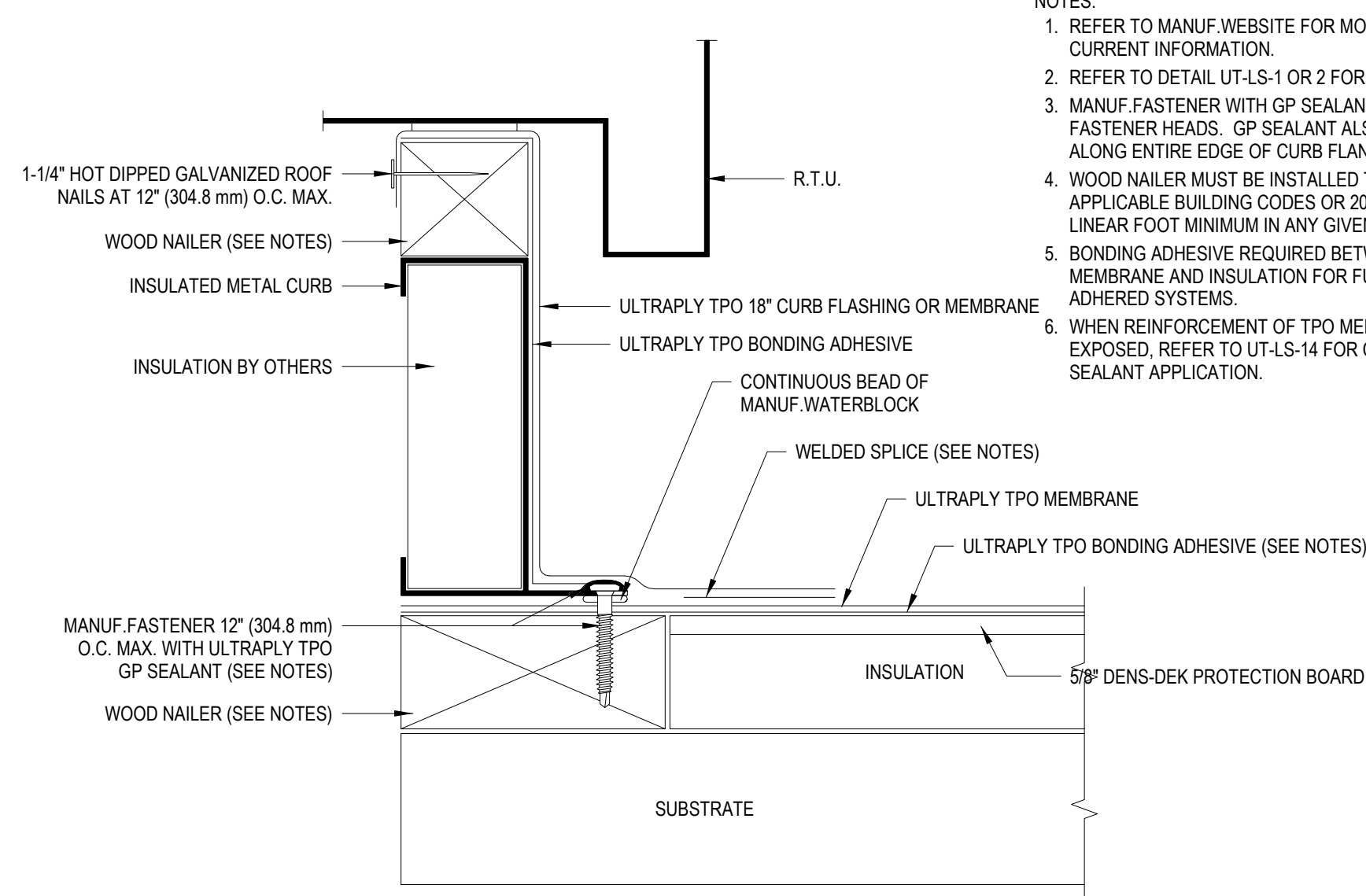
HEAT RESISTANT TAPE (BY OTHERS) OVER ULTRAPLY TPO COATED METAL SPICE

7 ULTRAPLY TPO COATED METAL (WITH BRAKE) SPLICE - STEPS
6\"/>



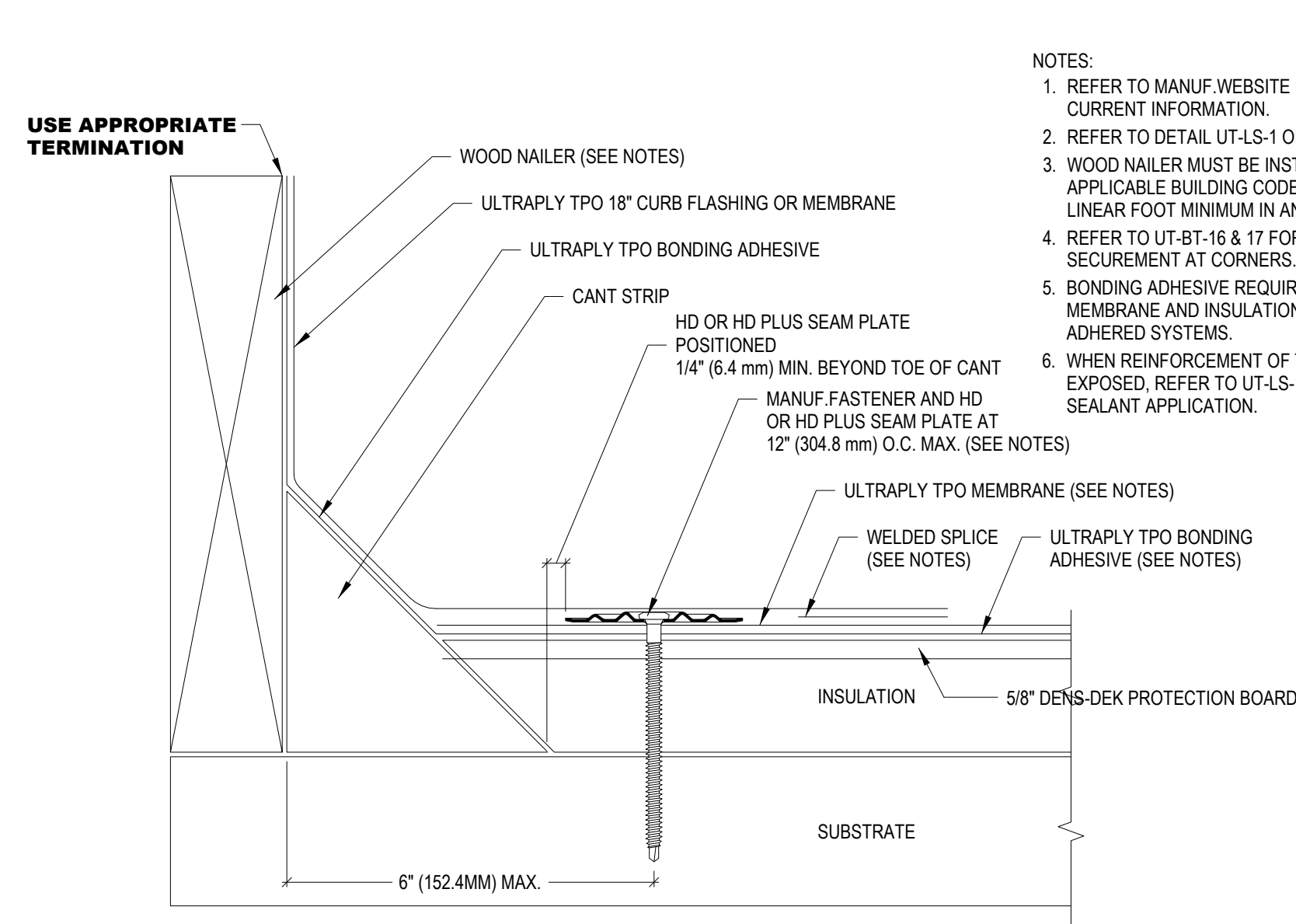
- NOTES:
1. REFER TO MANUF. WEBSITE FOR MOST CURRENT INFORMATION.
 2. REMOVE ALL EXISTING FLASHINGS, LEADS, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
 3. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
 4. PRE-MOLDED PIPE FLASHING MAY BE CUT TO HEIGHT, BUT NO LOWER THAN REINFORCING RING (NO WRINKLES OR FOLDS UNDER CLAMPING RING).
 5. APPLY GP SEALANT BETWEEN PENETRATION AND PRE-MOLDED PIPE FLASHING PRIOR TO INSTALLATION OF CLAMPING RING.
 6. LARGE PRE-MOLDED PIPE FLASHING FITS 4\"/>

2 PENETRATION WITH ULTRAPLY TPO LARGE PIPE FLASHING
6\"/>



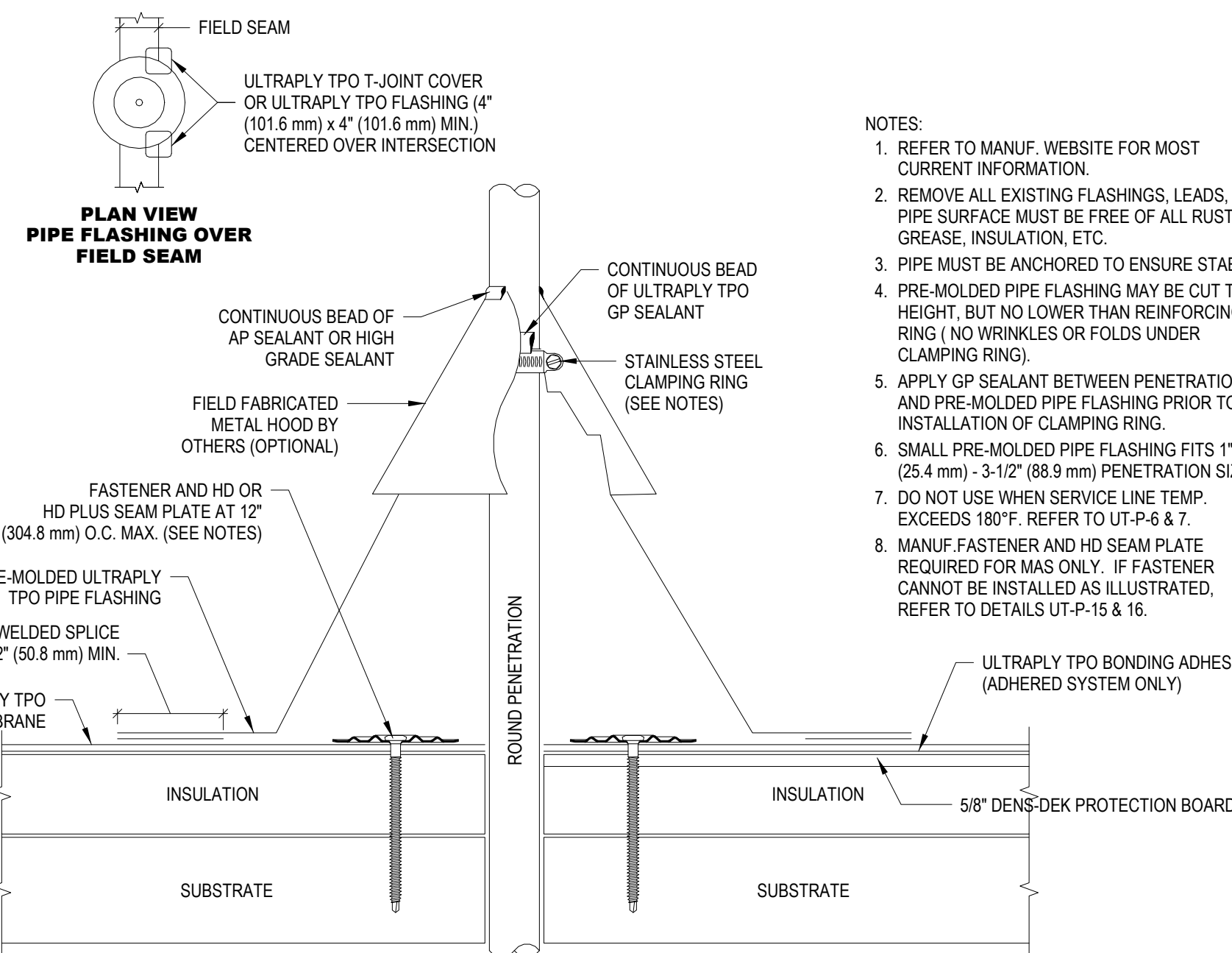
- NOTES:
1. REFER TO MANUF. WEBSITE FOR MOST CURRENT INFORMATION.
 2. REFER TO DETAIL UT-LS-1 OR 2 FOR WELD WIDTH.
 3. MANUF. FASTENER WITH GP SEALANT OVER FASTENER HEADS. GP SEALANT ALSO REQUIRED ALONG ENTIRE EDGE OF CURB FLANGE.
 4. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
 5. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
 6. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

5 TERMINATION AT R.T.U.
6\"/>



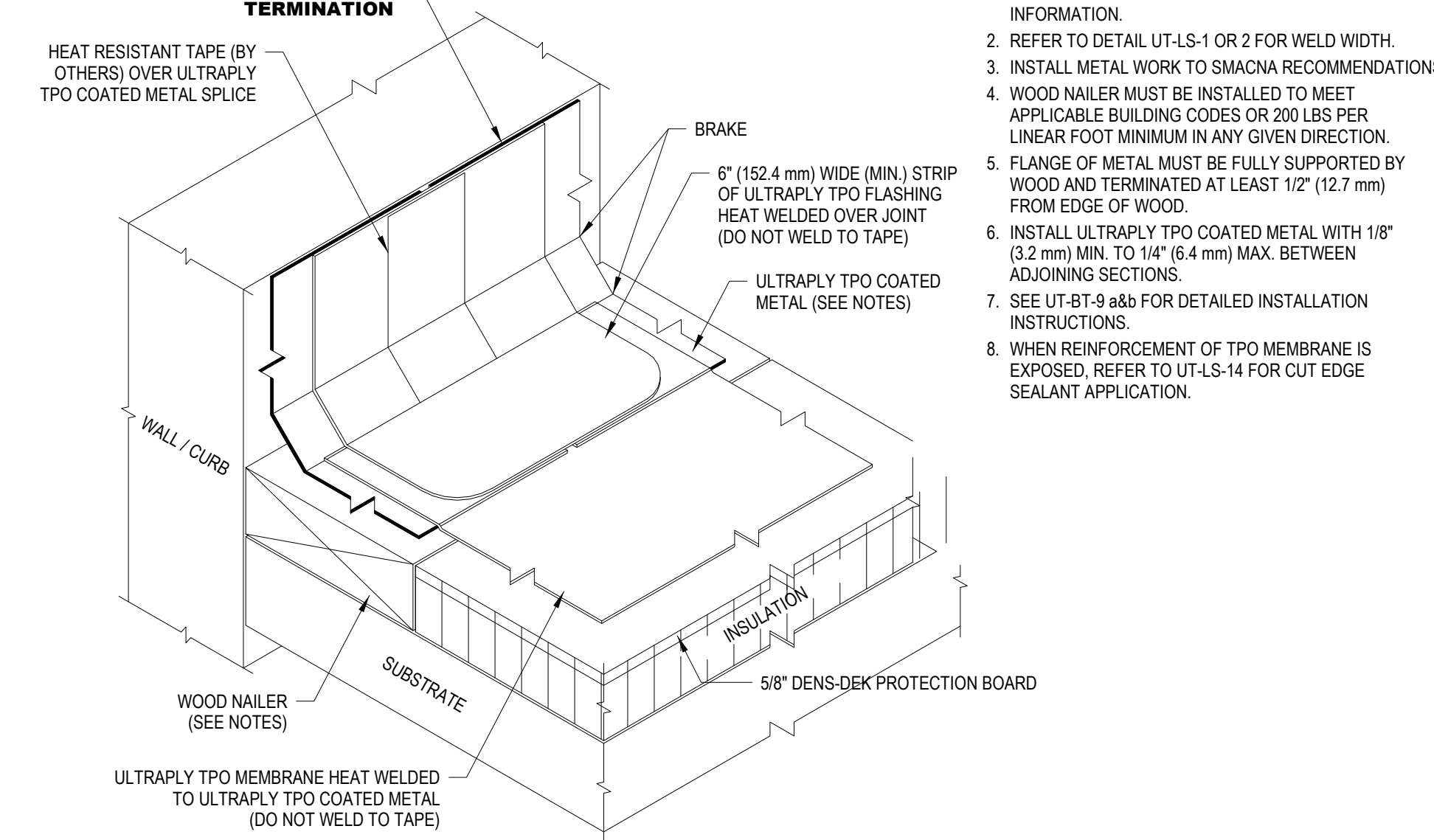
- NOTES:
1. REFER TO MANUF. WEBSITE FOR MOST CURRENT INFORMATION.
 2. REFER TO DETAIL UT-LS-1 OR 2 FOR WELD WIDTH.
 3. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
 4. REFER TO UT-8T-16 & 17 FOR MEMBRANE SECUREMENT AT CORNERS.
 5. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
 6. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.

8 BASE TIE-IN AT CURB/PARAPET WITH CANT
6\"/>



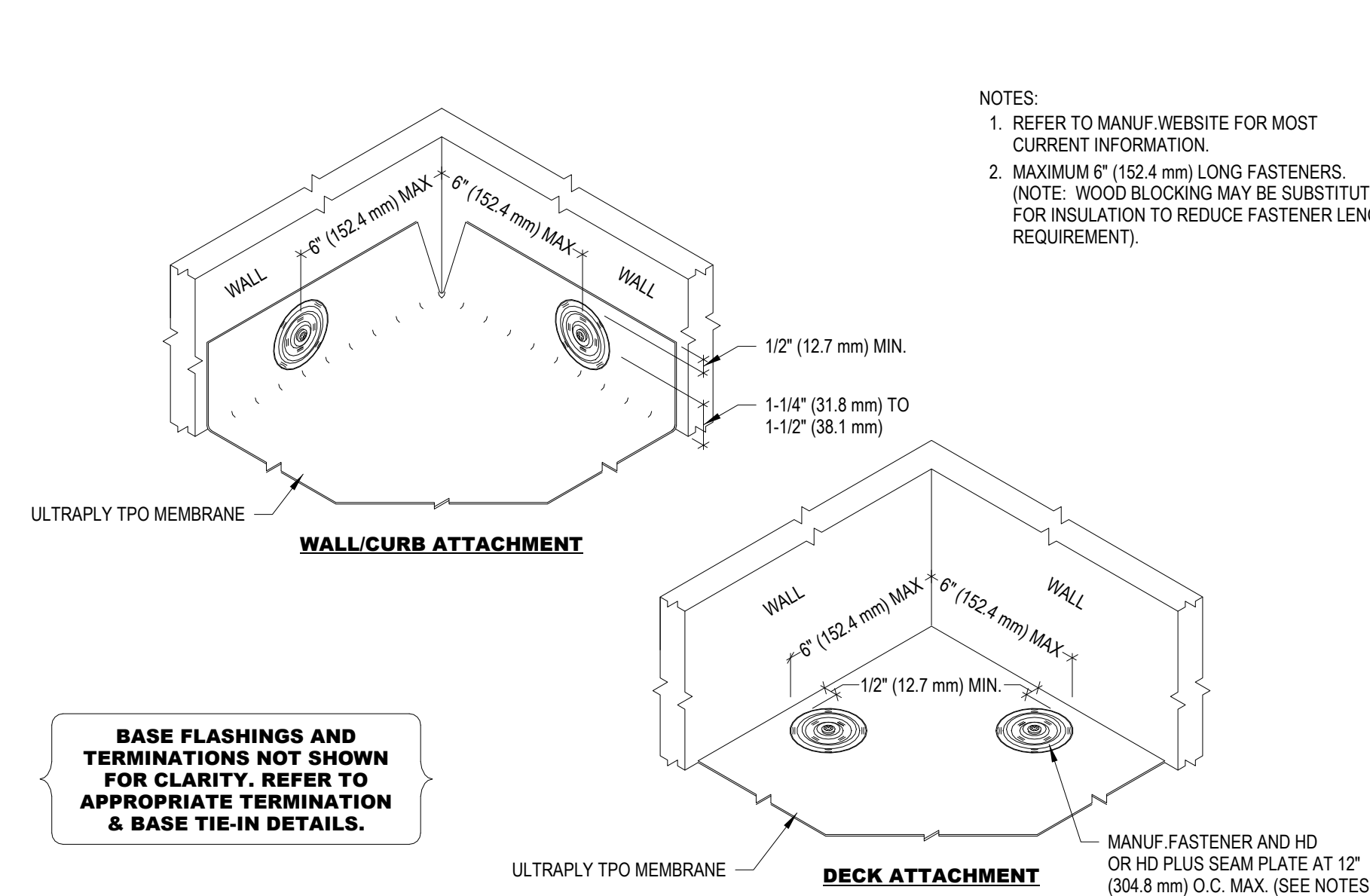
- NOTES:
1. REFER TO MANUF. WEBSITE FOR MOST CURRENT INFORMATION.
 2. REMOVE ALL EXISTING FLASHINGS, LEADS, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
 3. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
 4. PRE-MOLDED PIPE FLASHING MAY BE CUT TO HEIGHT, BUT NO LOWER THAN REINFORCING RING (NO WRINKLES OR FOLDS UNDER CLAMPING RING).
 5. APPLY GP SEALANT BETWEEN PENETRATION AND PRE-MOLDED PIPE FLASHING PRIOR TO INSTALLATION OF CLAMPING RING.
 6. SMALL PRE-MOLDED PIPE FLASHING FITS 1\"/>

3 PENETRATION WITH ULTRAPLY TPO SMALL PIPE FLASHING
6\"/>



- NOTES:
1. REFER TO MANUF. WEBSITE FOR MOST CURRENT INFORMATION.
 2. REFER TO DETAIL UT-LS-1 OR 2 FOR WELD WIDTH.
 3. INSTALL METAL WORK TO SMACNA RECOMMENDATIONS.
 4. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
 5. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2\"/>

6 ULTRA TPO COATED METAL (WITH BRAKE) SPLICE
6\"/>



- NOTES:
1. REFER TO MANUF. WEBSITE FOR MOST CURRENT INFORMATION.
 2. MAXIMUM 6\"/>

BASE FLASHINGS AND TERMINATIONS NOT SHOWN FOR CLARITY. REFER TO APPROPRIATE TERMINATION & BASE TIE-IN DETAILS.

9 MEMBRANE SECUREMENT AT INSIDE CORNER
6\"/>

#	ISSUED FOR	DATE
	PERMIT SET	2024-06-11
	ADDENDUM 2	2024-08-02

DRAWN BY: TLG
REVIEW BY: BTL

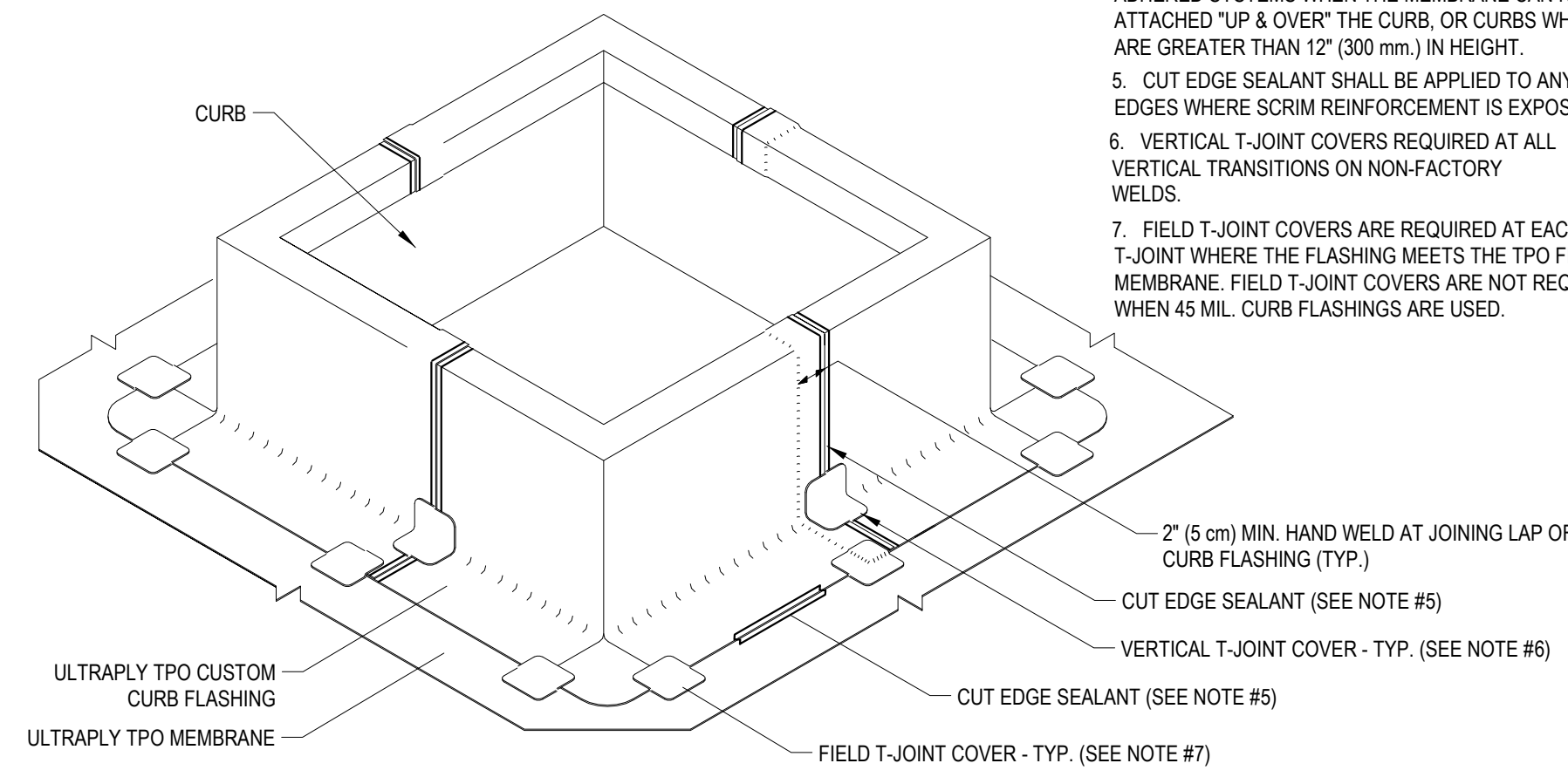
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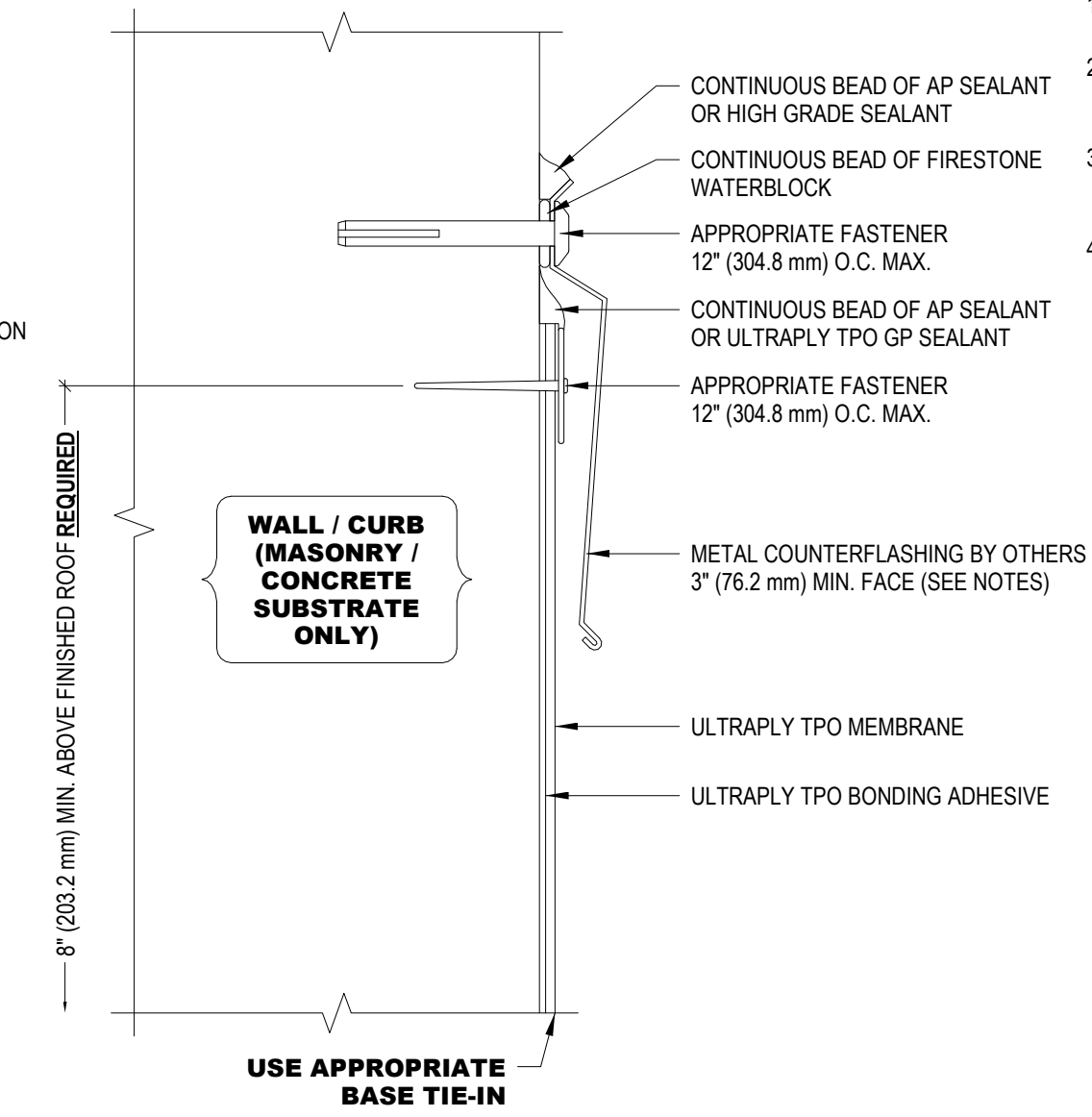
23164.01

A-551



- NOTES:
1. REFER TO MANUF. WEBSITE FOR MOST CURRENT INFORMATION.
 2. ULTRAPLY TPO CUSTOM CURB FLASHING COMES IN CUSTOM SIZES TO FIT SPECIFIC CURB SIZES.
 3. REFER TO MANUF. INSTRUCTION FOR WELD.
 4. BONDING ADHESIVE IS REQUIRED BETWEEN CURB AND ULTRAPLY TPO CUSTOM CURB FLASHING IN FULLY ADHERED SYSTEMS WHEN THE MEMBRANE CAN NOT BE ATTACHED "UP & OVER" THE CURB, OR CURBS WHICH ARE GREATER THAN 12" (300 mm.) IN HEIGHT.
 5. CUT EDGE SEALANT SHALL BE APPLIED TO ANY EDGES WHERE SCRIM REINFORCEMENT IS EXPOSED SEE MANUF. INSTRUCTION
 6. VERTICAL T-JOINT COVERS REQUIRED AT ALL VERTICAL TRANSITIONS ON NON-FACTORY WELDS.
 7. FIELD T-JOINT COVERS ARE REQUIRED AT EACH T-JOINT WHERE THE FLASHING MEETS THE TPO FIELD MEMBRANE. FIELD T-JOINT COVERS ARE NOT REQUIRED WHEN 45 MIL. CURB FLASHINGS ARE USED.

① 7-CURB WITH ULTRAPLY TPO CUSTOM CURB FLASHING
6" = 1'-0"



- NOTES:
1. REFER TO MANUF. WEBSITE FOR MOST CURRENT INFORMATION.
 2. REGULAR MAINTENANCE OF COUNTERFLASHING AND SEALANTS REQUIRED. NOT INCLUDED AS PART OF THE FIRESTONE WARRANTY.
 3. METAL COUNTERFLASHING SHALL BE 24 GAUGE PRE-FINISHED STEEL OR .032" MIN. ALUMINUM FORMED WITH HEIMED LOWER EDGE.
 4. INSTALL METAL WORK IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS.

MASONRY AND CONCRETE WALLS / CURBS MUST BE WATERPROOFED AND MAINTAINED IN ORDER FOR ANY SURFACE MOUNTED TERMINATION TO BE EFFECTIVE.

② 11-TERMINATION WITH SURFACE MOUNTED COUNTERFLASHING
6" = 1'-0"

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ROOFING DETAILS

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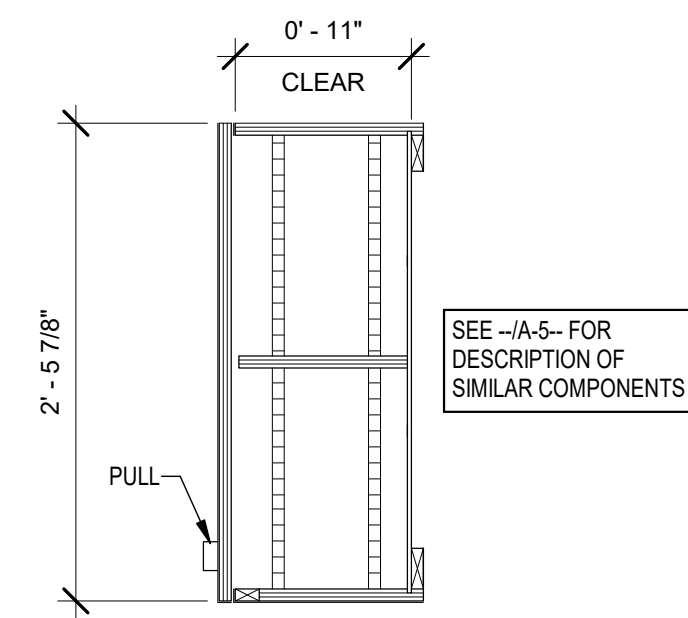
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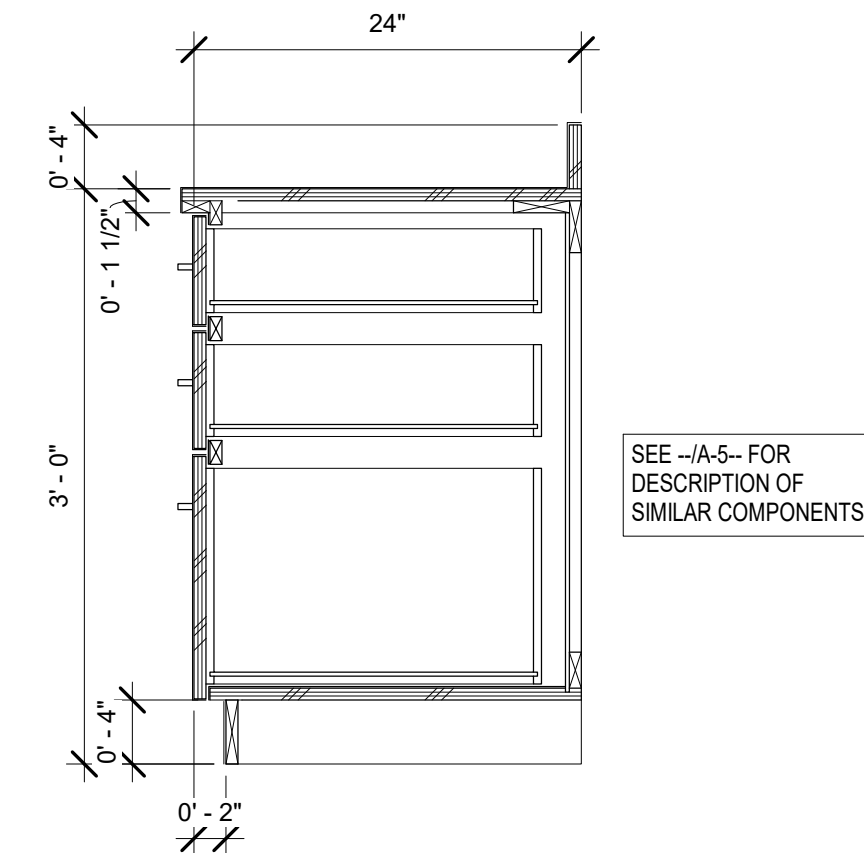
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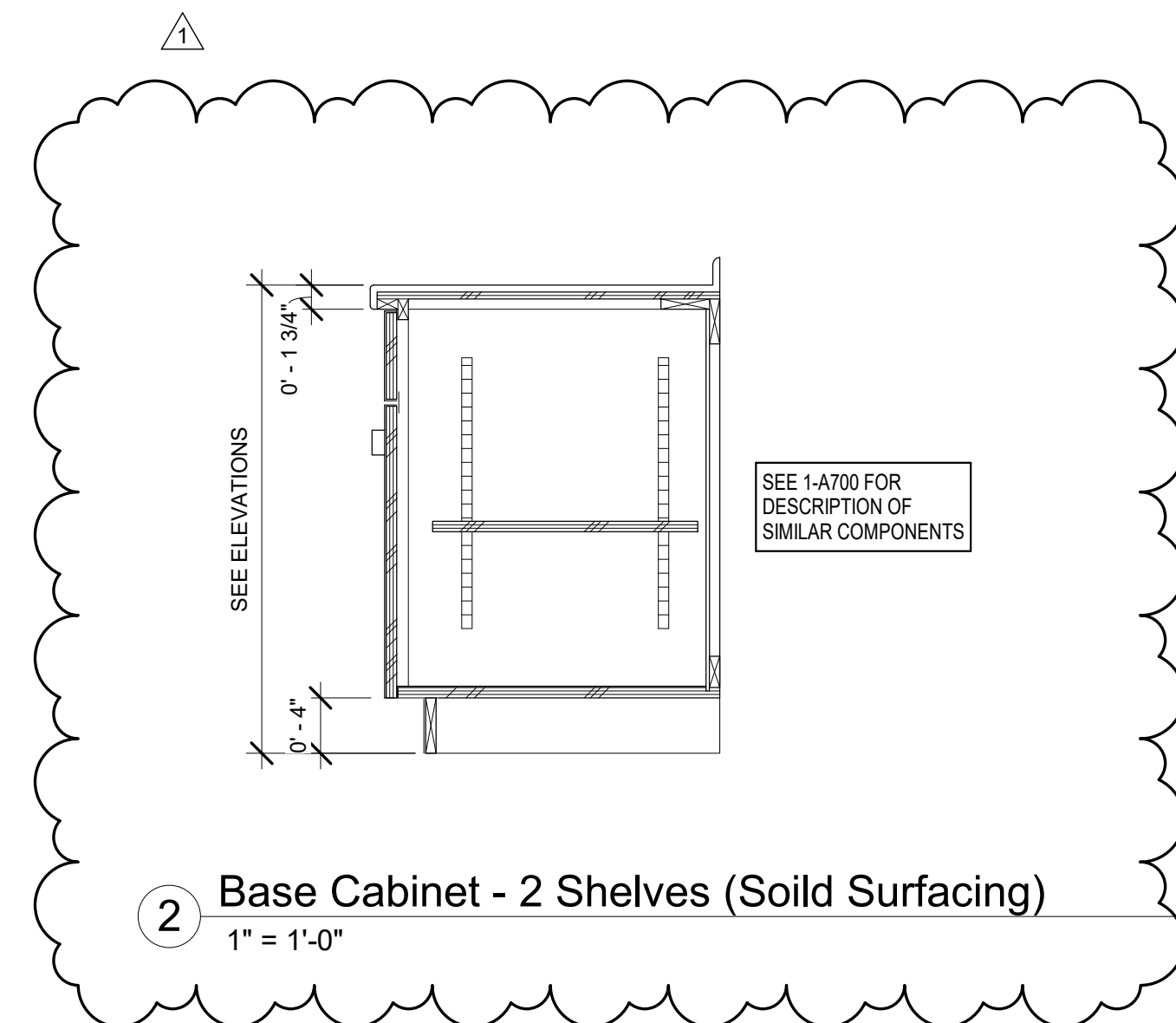
Δ A-552



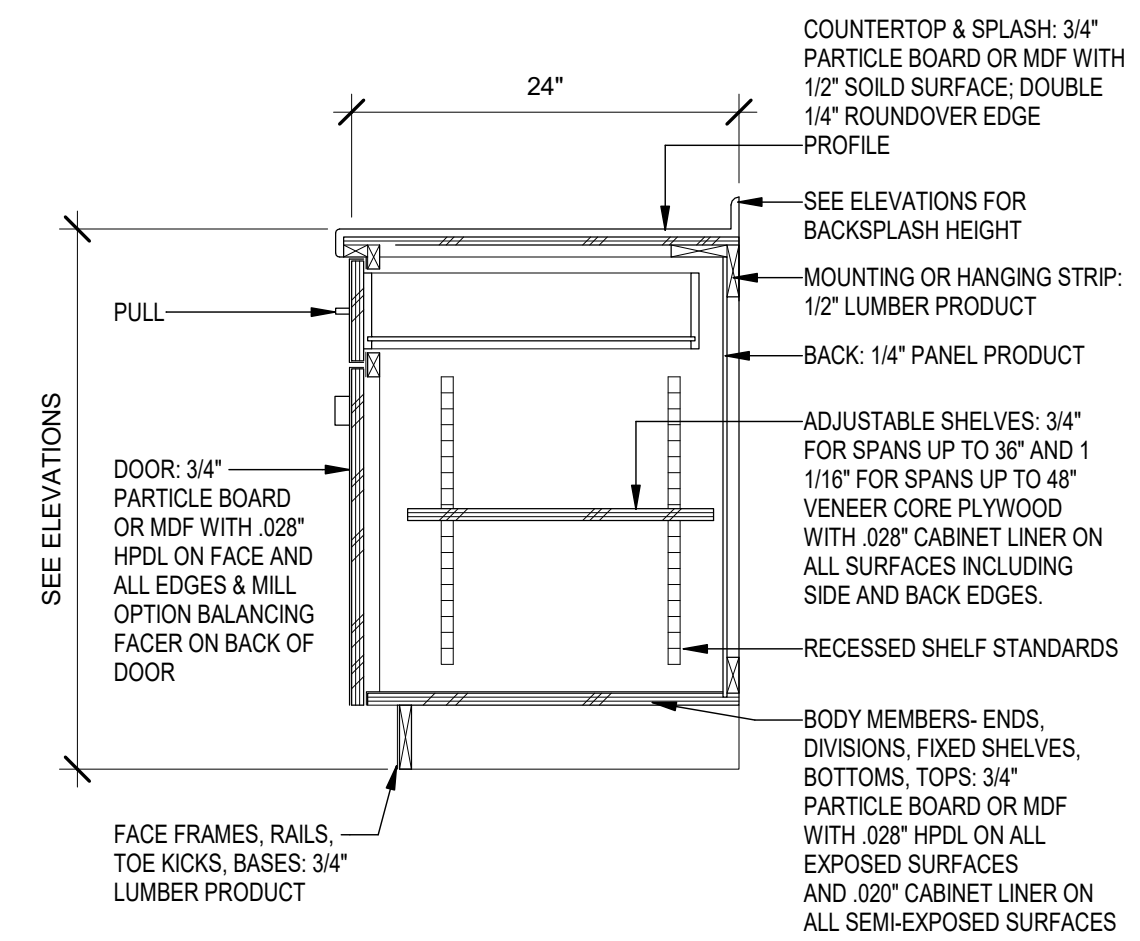
4 Upper Cabinet - 1 Shelf
1" = 1'-0"



3 Base Cabinet - 2 Small/1 Large Drawer
1" = 1'-0"



2 Base Cabinet - 2 Shelves (Solid Surfacing)
1" = 1'-0"



1 Base Cabinet - 1 Drawer/1 Shelf (Solid Surfacing)
1" = 1'-0"

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MILLWORK DETAILS

#	ISSUED FOR	DATE
△	PERMIT SET ADDENDUM 2	2024-06-11 2024-08-02

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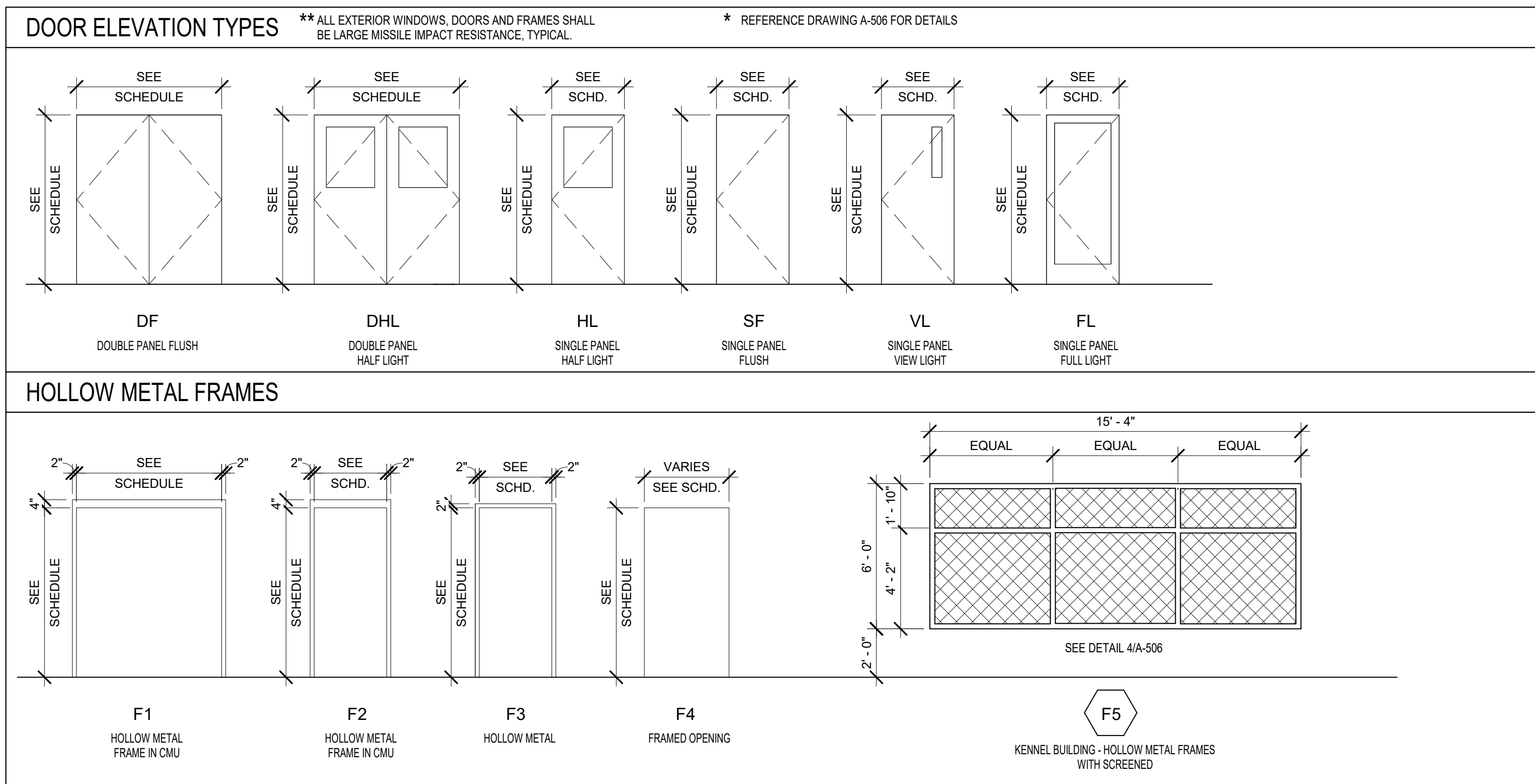
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A-700

MARK	TYPE	MATL	DOOR			FRAME			FRAME TYPE	FIRE RATING	HDW SET	REMARKS
			WIDTH	HEIGHT	THICKNESS	MATL	JAMB	SILL				
Floor Level												
100	AL	AL	6'-0"	7'-0"	0'-1 3/4"	HM	3/A-506	7/A-506	2/A-506	W-5	NR	SECURITY READER
100A	HL	MTL	3'-0"	7'-0"	0'-1 3/4"	HM	6/A-506	-	5/A-506	F2	NR	SECURITY READER
100B	HL	MTL	3'-0"	7'-0"	0'-1 3/4"	HM	6/A-506	11/A-506	5/A-506	F2	90 Mln.	SECURITY READER
100C	HL	MTL	3'-0"	7'-0"	0'-1 3/4"	HM	6/A-506	11/A-506	5/A-506	F2	90 Mln.	SECURITY READER
101	VL	SCW	3'-0"	7'-0"	0'-1 3/4"	HM	12/A-506	-	13/A-506	F3	NR	-
101A	VL	MTL	3'-0"	7'-0"	0'-1 3/4"	HM	6/A-506	-	5/A-506	F2	NR	-
101B	VL	MTL	3'-0"	7'-0"	0'-1 3/4"	HM	6/A-506	11/A-506	5/A-506	F2	NR	SECURITY READER
102	HL	SCW	3'-0"	7'-0"	0'-1 3/4"	HM	12/A-506	-	13/A-506	F3	NR	-
102A	HL	MTL	3'-0"	7'-0"	0'-1 3/4"	HM	6/A-506	11/A-506	5/A-506	F2	NR	SECURITY READER
103	SF	SCW	3'-0"	7'-0"	0'-1 3/4"	HM	12/A-506	-	13/A-506	F3	NR	-
104	FL	SCW	3'-0"	7'-0"	0'-1 3/4"	HM	12/A-506	-	13/A-506	F3	NR	-
105	VL	SCW	3'-0"	7'-0"	0'-1 3/4"	HM	12/A-506	-	13/A-506	F3	NR	-
106	FL	SCW	3'-0"	7'-0"	0'-1 3/4"	HM	12/A-506	-	13/A-506	F3	NR	-
107	SF	SCW	3'-0"	7'-0"	0'-1 3/4"	HM	12/A-506	-	13/A-506	F3	NR	SECURITY READER
108	HL	SCW	3'-0"	7'-0"	0'-1 3/4"	HM	12/A-506	-	13/A-506	F3	NR	-
109	SF	SCW	3'-0"	7'-0"	0'-1 3/4"	HM	12/A-506	-	13/A-506	F3	NR	SECURITY READER
110	FL	SCW	3'-0"	7'-0"	0'-1 3/4"	HM	12/A-506	-	13/A-506	F3	NR	-
111	VL	SCW	3'-0"	7'-0"	0'-1 3/4"	HM	12/A-506	-	13/A-506	F3	NR	-
112	SF	SCW	3'-0"	7'-0"	0'-1 3/4"	HM	12/A-506	-	13/A-506	F3	NR	-
113	SF	SCW	3'-0"	7'-0"	0'-1 3/4"	HM	12/A-506	-	13/A-506	F3	NR	-
113A	-	-	3'-6"	7'-0"	-	-	-	-	-	F4	-	FRAMED OPENING
113B	-	-	3'-6"	7'-0"	-	-	-	-	-	F4	-	FRAMED OPENING
114	SF	SCW	3'-0"	7'-0"	0'-1 3/4"	HM	12/A-506	-	13/A-506	F3	NR	-
114A	-	-	3'-6"	7'-0"	-	-	-	-	-	F4	-	FRAMED OPENING
114B	-	-	3'-6"	7'-0"	-	-	-	-	-	F4	-	FRAMED OPENING
115	HL	SCW	3'-0"	7'-0"	0'-1 3/4"	HM	12/A-506	-	13/A-506	F3	NR	-
116	SF	SCW	3'-0"	7'-0"	0'-1 3/4"	HM	12/A-506	-	13/A-506	F3	NR	-
117	SF	SCW	3'-0"	7'-0"	0'-1 3/4"	HM	12/A-506	-	13/A-506	F3	NR	SECURITY READER
118	SF	MTL	3'-0"	7'-0"	0'-1 3/4"	HM	6/A-506	11/A-506	5/A-506	F2	90 Mln.	-
119	DF	MTL	6'-0"	7'-0"	0'-1 3/4"	HM	6/A-506	11/A-506	5/A-506	1	90 Mln.	-
119A	DF	MTL	6'-0"	7'-0"	0'-1 3/4"	HM	15/A-506	-	14/A-506	1	90 Mln.	-
120	DF	MTL	6'-0"	7'-0"	0'-1 3/4"	HM	6/A-506	11/A-506	5/A-506	1	90 Mln.	-
204A	HL	MTL	3'-0"	7'-0"	0'-1 3/4"	HM	6/A-506	11/A-506	5/A-506	F2	NR	-
204B	HL	MTL	3'-0"	7'-0"	0'-1 3/4"	HM	6/A-506	11/A-506	5/A-506	F2	NR	SECURITY READER
205	HL	MTL	3'-0"	7'-0"	0'-1 3/4"	HM	6/A-506	11/A-506	5/A-506	F2	NR	-
206	HL	MTL	3'-0"	7'-0"	0'-1 3/4"	HM	6/A-506	-	5/A-506	F2	NR	-
207A	HL	MTL	3'-0"	7'-0"	0'-1 3/4"	HM	6/A-506	11/A-506	5/A-506	F2	NR	SECURITY READER
207B	HL	MTL	3'-0"	7'-0"	0'-1 3/4"	HM	6/A-506	11/A-506	5/A-506	F2	NR	-
208A	HL	MTL	3'-0"	7'-0"	0'-1 3/4"	HM	6/A-506	-	5/A-506	F2	NR	-
208B	HL	MTL	3'-0"	7'-0"	0'-1 3/4"	HM	6/A-506	-	5/A-506	F2	NR	-
210	DHL	MTL	6'-0"	7'-0"	0'-1 3/4"	HM	6/A-506	11/A-506	5/A-506	F1	NR	-
210A	DHL	MTL	6'-0"	7'-0"	0'-1 3/4"	HM	6/A-506	11/A-506	5/A-506	F1	NR	-
210B	DHL	MTL	6'-0"	7'-0"	0'-1 3/4"	HM	6/A-506	11/A-506	5/A-506	F1	NR	-



DOOR SCHEDULE GENERAL NOTES

- SUBMIT DOOR FRAME AND HARDWARE SCHEDULE FOR REVIEW PRIOR TO PURCHASING AND ORDERING. OWNER TO HAVE FINAL DECISION ON HARDWARE SET. COORDINATE KEYING WITH OWNER.
- VERIFY ALL KEYING REQUIREMENTS WITH THE OWNER.
- ALL LOCK SETS SHALL BE LEVER TO COMPLY WITH APPLICABLE ANSI AND ADA GUIDELINES FOR ACCESSIBILITY.
- DOOR FINISHES SHALL BE VERIFIED WITH OWNER ALL DOORS ARE TO BE FACTORY FINISHED, U.N.O.
- VERIFY ALL FRAME ROUGH OPENINGS WITH DOOR MANUFACTURERS.
- COORDINATE ALL DOOR AND FRAME INSTALLATION AND HARDWARE SPECIFICATIONS WITH SECURITY SYSTEM COMPONENT INSTALLATION REQUIREMENTS AND ENSURE ALL ELECTRICAL AND HARDWARE NEEDS ARE ADDRESSED.
- DOOR STOPS SHALL BE FURNISHED FOR ALL DOORS TO PREVENT DAMAGE TO DOORS OR HARDWARE FROM STRIKING ADJACENT WALLS OR FIXTURES. WALL BUMPERS ARE PREFERRED, BUT WHERE NOT PRACTICAL FURNISH FLOOR STOPS. WHERE CONDITIONS PROHIBIT THE USE OF EITHER WALL OR FLOOR TYPE STOPS, FURNISH SURFACE MOUNTED OVERHEAD STOPS.
- DOOR CLOSERS SHALL BE FURNISHED WITH PARALLEL ARM MOUNTED ON ALL DOORS OPENING INTO CORRIDORS OR OTHER PUBLIC SPACES AND SHALL BE MOUNTED TO PERMIT 180 DEGREES DOOR SWING WHEREVER WALL CONDITIONS PERMIT. FURNISH WITH NON-HOLD OPEN ARMS UNLESS OTHERWISE INDICATED.
- THE FOLLOWING SCHEDULE IS FURNISHED FOR WHATEVER ASSISTANCE IT MAY AFFORD THE CONTRACTOR. PRIOR TO PLACING ORDER FOR HARDWARE, ALL HARDWARE SETS SHALL BE REVIEWED AND COORDINATED BY A DOOR HARDWARE PROFESSIONAL WHO HAS EXPERIENCE WITH PROJECTS OF THIS SIZE AND COMPLEXITY. DO NOT CONSIDER THE HARDWARE SETS AS ENTIRELY INCLUSIVE. SHOULD ANY PARTICULAR DOOR OR ITEM BE OMITTED IN ANY SCHEDULED HARDWARE GROUP, PROVIDE DOOR OR ITEM WITH HARDWARE SAME AS REQUIRED FOR SIMILAR PURPOSES.
- PROVIDE BURGLAR PROOF HINGES N.R.P. WHERE EXPOSED TO OUTSIDE OR COMMON AREAS.
- PROVIDE DOOR STOP ON ALL DOORS, LOCATED WHERE THEY WILL PROTECT THE WALL OR ADJACENT FIXTURE FROM DAMAGE.
- PAINT ALL HOLLOW METAL DOORS AND FRAMES COLOR AS SPECIFIED.
- DOOR HOLDERS TO BE INSTALLED ON THE KICK-PLATE SIDE OF DOOR.
- CONFIRM ALL DOOR HARDWARE SETS WITH OWNER PRIOR TO PLACING ORDER.
- ALL DOOR HARDWARE SHALL BE COMPLIANT WITH ANSI A117.1 AND ADA.
 - DOOR LATCH/LOCKSET - LEVER HANDLE.
 - THRESHOLDS-1/2" HIGH MAXIMUM.

DOOR & FRAME GENERAL NOTES

- DOOR STYLE - FINISH HARDWARE SAMPLES TO BE PRESENTED TO OWNER BY GENERAL CONTRACTOR FOR REVIEW / SELECTION.**
- SIZES LISTED ARE NOMINAL. VERIFY SIZES IN FIELD. VERIFY SIZES AND INSTALLATION REQUIREMENTS WITH MANUFACTURER.
 - PROVIDE WEATHER STRIPPING ON ALL EXTERIOR DOORS AS REQUIRED.
 - ALL EXTERIOR DOORS SHALL HAVE AN ADA COMPLIANT WEATHER THRESHOLD.
 - ALL EXTERIOR DOORS AND FRAMES SHALL BE LARGE MISSILE IMPACT RESISTANT.
 - ACCESS CONTROL SECURITY SYSTEM, COORDINATE WITH SECURITY VENDORS AND VERIFY TYPE AND LOCATIONS WITH OWNER'S/COORDINATE WITH ELECTRICAL DRAWINGS FOR REQUIREMENTS.

DOOR & WINDOWS NOTES

- DOORS TO BE KEYPED.
- DOORS TO HAVE ELECTRONIC CARD READER. LOCK SHALL OPEN AUTOMATICALLY WITH FAILURE OR ACTIVATION OF FIRE ALARM.
- DOOR TO HAVE WIRELESS ACCESS KEY FOB READER. LOCK SHALL OPEN AUTOMATICALLY WITH FAILURE OR ACTIVATION OF FIRE ALARM.
- ALL DOORS TO HAVE ADA COMPLIANT HANDLES AND THRESHOLDS.
- DOOR HARDWARE SCHEDULE TO BE REVIEWED AND COORDINATED WITH OWNER AND SUBMITTED FOR PRICING AND REVIEW.
- ANY GLAZING IN FIRE SAFETY RATED DOORS TO ALSO BE FIRE SAFETY RATED GLASS.
- ALL DOOR HARDWARE FINISH TO BE REVIEWED AND APPROVED BY OWNER.
- AREAS CONTROLLED BY PROX CARDS SHOULD BE STRIKES/ ELECTRONIC AND NOT LOCK SETS/ ELECTRONIC.

FRAMES & GLAZING NOTES

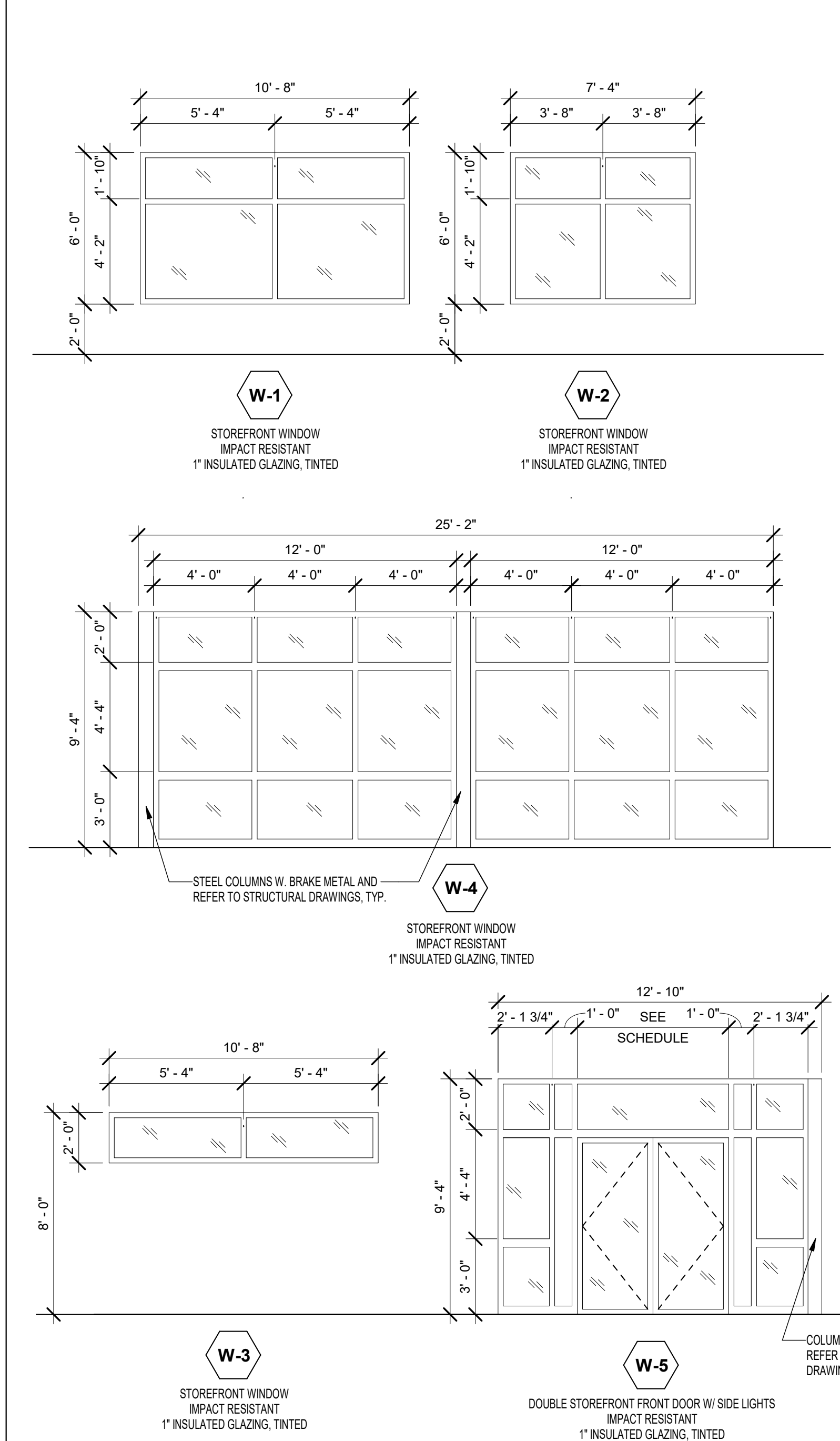
- INSULATED LOW E GLASS IN ALL EXTERIOR GLAZING. DOUBLE GLAZED WITH TINTED GLASS FOR EXTERIOR WINDOWS.
- HOLLOW METAL FRAMES SHALL BE ANODIZED FINISH. DOOR GLASS SHALL BE 1/4" CLEAR FLOAT INSULATED TEMPERED GLASS.
- PROVIDE STOREFRONT FRAME & GLAZING TINTING SAMPLES FOR OWNER'S APPROVAL.
- CONTRACTOR TO PROVIDE SUBMITTAL FOR REVIEW AND APPROVAL.
- CONTRACTOR TO FIELD VERIFY EXACT WINDOWS SIZES AND QUANTITIES IN FIELD.

STOREFRONT INFORMATION

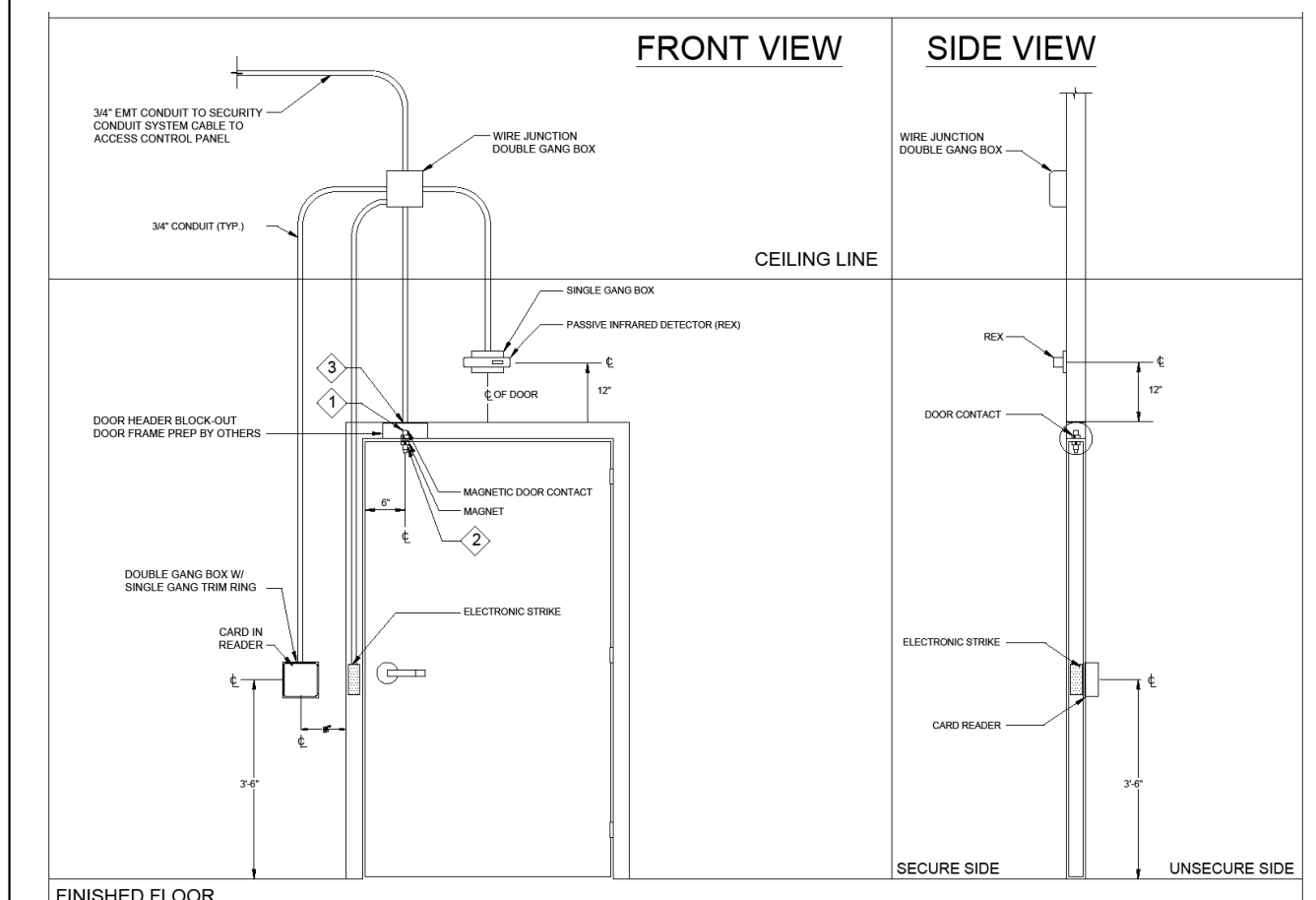
- ALL GLAZING TO BE U-VALUE: 50 MIN., SHGC: 25, REFER TO ENERGY CALCULATION.
- FLORIDA PRODUCT APPROVAL
 - EXTERIOR STOREFRONT YHS50TU EPA 14218.17
 - YKK AP America
 - YKK FL14218.17
 - Model: YHS 50 TU Pre-Graded Aluminum Storefront System - Outside Glazed (WZ3) (Impact)
 - DESCRIPTION: YHS 50 TU Pre-Graded Aluminum Storefront System - Outside Glazed (WZ3) (Impact)
 - Category: Panel Walls
 - Subcategory: Storefronts
 - EXTERIOR ENTRANCE STOREFRONT 35H EPA 16554.1
 - YKK AP America
 - YKK FL16554.1
 - Model: Series 35H Aluminum Outswing Entrance Door (HVHZ) (Impact)
 - Description: Series 35H Aluminum Outswing Entrance Door (HVHZ) (Impact)
 - Category: Exterior Doors
 - Subcategory: Swinging Exterior Door Assemblies
- INSULATED IMPACT GLAZING WITH SB70X. LOW E TO MEET ENERGY CODE.

STOREFRONT FRAMES

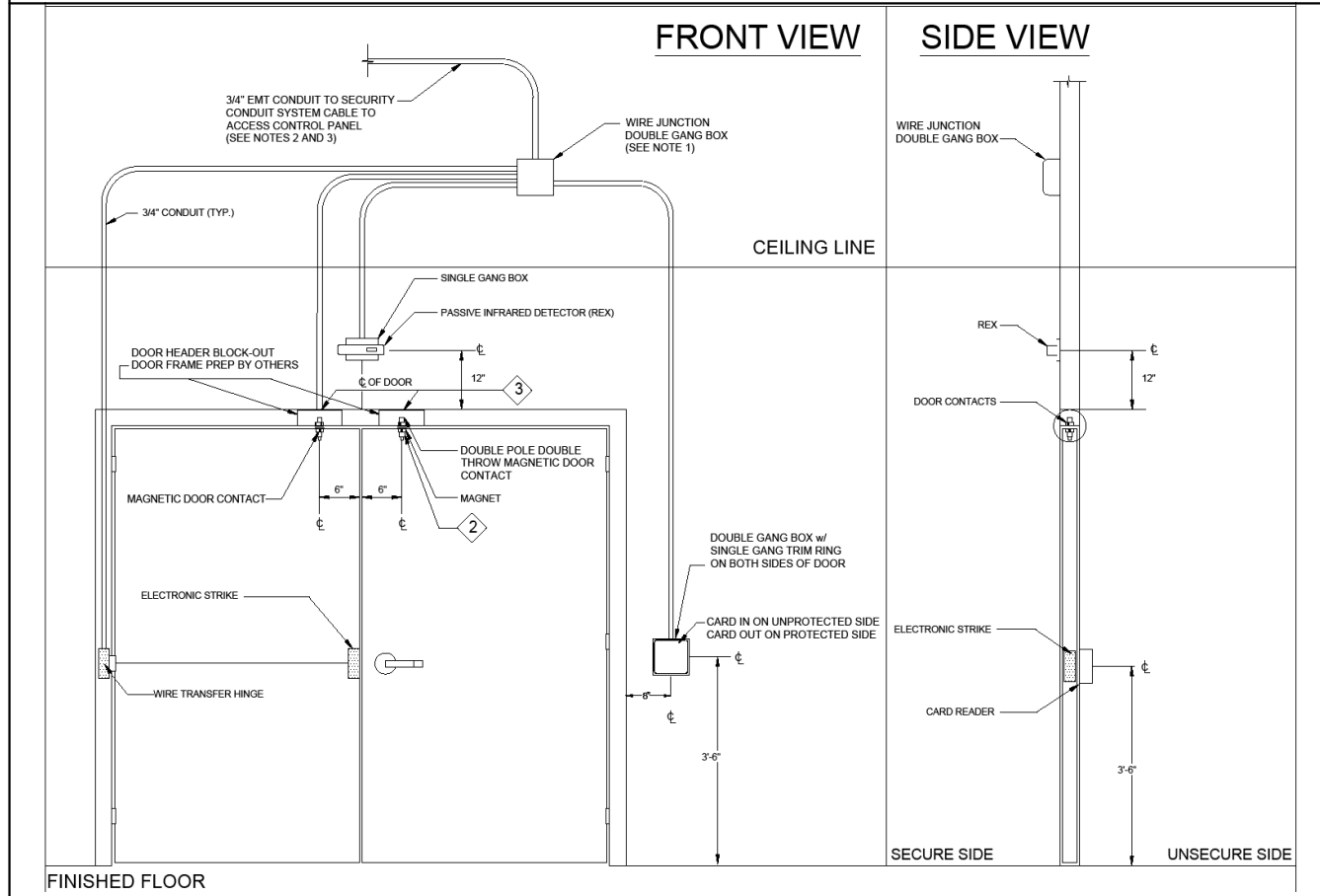
** ALL EXTERIOR WINDOWS, DOORS AND FRAMES SHALL BE LARGE MISSILE IMPACT RESISTANCE, TYPICAL. * REFERENCE DRAWING A-506 FOR DETAILS



SECURITY READER - DIAGRAM "A" - SINGLE DOOR



SECURITY READER - DIAGRAM "A" - DOUBLE DOOR



HCSO: Regional Canine Training Center

2102 N FALKENBURG RD
TAMPA, FL 33619

DOOR SCHEDULES & GENERAL NOTES

#	ISSUED FOR	DATE
	PERMIT SET	2024-06-11
	ADDENDUM 2	2024-08-02

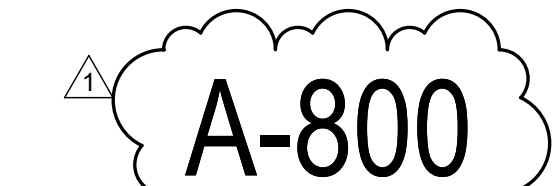
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MATERIAL KEY													
TYPE	MARK	DESCRIPTION	MANUFACTURER	SERIES	STYLE	SIZE	FINISH	CATEGORY	LOCATION	COMMENTS	REP NAME	PHONE	EMAIL
BUILT IN													
BUILT IN	PL	PLASTIC LAMINATE	WILSONART	HD LAMINATE	TBD	NA		CASEWORK	CASEWORK				
BUILT IN	SS-1	SOLID SURFACE	WILSONART		TBD	NA		COUNTERTOP	BREAK ROOM				
BUILT IN	SS-2	SOLID SURFACE	WILSONART					WINDOWSILLS	THROUGHOUT				
CEILING													
CEILING	ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG	SQUARE LAY IN	CORTEGA	24X24/ 15/16"		CEILINGS	THROUGHOUT				
CEILING	PT-6	PAINT	SHERWIN WILLIAMS						CEILINGS				
FLOORING													
FLOORING	CPT-1	CARPET	TARKETT	TAYLORED MADRAS	11284					SEE FINISH PLAN			
FLOORING	CT-1	PORCELAIN TILE	NASCO	DORADO	CIVILIZATION	12"X24"	MATTE			RESTROOMS			
FLOORING	CT-4	PORCELAIN STONE	CROSSVILLE	DORADO	CIVILIZATION	2" X 2"				SHOWER FLOOR			
FLOORING	LVT-1	LUXURY VINYL TILE	METRO FLOOR	DN123814ATX ZINC	DEJA NEW WITH ATTRAXION					SEE FINISH PLAN			
FLOORING	PA	POLYUREA POLYASPARTIC CONCRETE	TBD							KENNEL FLOORING			
FLOORING	SC	SEALED CONCRETE	SCOFIELD	FORMULA 1	G388		1 CREAM			SEE FINISH PLAN	2 MED REFLECTIVITY		
MISC													
MISC	GT-1	GROUT	MAPEI	5107	TBD								
MISC	TP-1	PLASTIC LAMINATE	WILSONART	HD LAMINATE	TBD	NA			RESTROOM STALLS	USE FOR TOILET AND SHOWER PARTITIONS			
WALL													
WALL	CT-2	CERAMIC TILE	CROSSVILLE	CIVILIZATION	ch01-CENSUS-UPS	12"X24"				SHOWER REAR WALL	WET WALLS IN RESTROOM + SHOWER		
WALL	CT-3	CERAMIC TILE	PANTHEON			12" X 40"				CUSTOM	SHOWER ACCENT WALL		
WALL	FRP-1	FIBERGLASS REINFORCED PLASTIC	CRANE COMPOSITES							CUSTOM			
WALL	PT-1	PAINT	SHERWIN WILLIAMS							KENNEL INTERIOR WALLS			
WALL	PT-2	PAINT	SHERWIN WILLIAMS							PRIMARY INTERIOR OF ADMIN			
WALL	PT-3	PAINT	SHERWIN WILLIAMS							RESTROOMS + OFFICES			
WALL	PT-4	PAINT	SHERWIN WILLIAMS							ACCENT PAINT			
WALL	PT-5	PAINT	SHERWIN WILLIAMS							ACCENT PAINT			
WALL	PT-6	PAINT	SHERWIN WILLIAMS							EXTERIOR STUCCO			
WALL	TB-1	TILE BASE	TBD							RESTROOMS			
WALL	VB-1	VINYL WALL BASE	TARKETT	DC/CB-XX	TRADITIONAL WALL BASE					THROUGHOUT			

ROOM FINISH SCHEDULE								
ROOM NO.	ROOM NAME	FLOOR FINISH	WALL BASE	CLG TYPE	CLG FINISH	PAINT FINISH	ACCENT WALL	COMMENTS
100A	Lobby	LVT	VB	ACT	-	PT-2		
100B	Hallway	LVT	VB	ACT	-	PT-2		
101	Multi-Use Meeting Room	CPT	VB	ACT	-	PT-2	PT-5 EAST	
102	Break Room	LVT	VB	ACT	-	PT-2	PT-5 EAST	
103	Unisex Restroom	T	TB	GYP	PT-1	PT-2		
104	Corporal Office	CPT	VB	ACT	-	PT-2	PT-5 SOUTH	
105	Scent Wall Storage	LVT	VB	ACT	-	PT-2		
106	Corporal Office	CPT	VB	ACT	-	PT-2	PT-5 SOUTH	
107	Secure EOD Aids Storage	LVT	VB	ACT	-	PT-2		
108	Copy Rm.	LVT	VB	ACT	-	PT-2		
109	Secure 57 Aids Storage	LVT	VB	ACT	-	PT-2		
110	Sergeant Office	CPT	VB	ACT	-	PT-2	PT-5 SOUTH	
111	Scent Wall Storage	LVT	VB	ACT	PT-1	PT-2		
112	Janitor	SC	TB	ACT	-	PT-2		
113	Men's Vestibule	FT	TB	ACT	-	PT-2		12X12 PORCELAIN FLOOR TILE
113A	Men's Restroom	FT	TB	GYP	PT-1	PT-3		12X12 PORCELAIN FLOOR TILE
113B	Men's Showers	FT	TB	GYP	PT-1	PT-3		2X2 PORCELAIN FLOOR TILE
114	Women's Vestibule	FT	TB	ACT	-	PT-2		12X12 PORCELAIN FLOOR TILE
114A	Women's Restroom	FT	TB	GYP	PT-1	PT-3		12X12 PORCELAIN FLOOR TILE
114B	Women Showers	FT	TB	GYP	PT-1	PT-3		2X2 PORCELAIN FLOOR TILE
115	Handlers' Office	CPT	VB	ACT	-	PT-2		
116	Closet	LVT	VB	ACT	-	PT-2		
117	MDF	LVT	VB	-	PT	PT-2		EXPOSED STRUCTURE- DRYFALL PAINT
118	Material Storage	SC	TB	ACT	-	PT-2		
119	Electrical	SC	TB	-	PT	-		EXPOSED STRUCTURE- DRYFALL PAINT
119A	HVAC	SC	TB	-	PT	-		EXPOSED STRUCTURE- DRYFALL PAINT
120	Bite-Suit & Food Storage	SC	VB	ACT	-	PT-2		
204	Kennel Breezeway A	EP	EP	EXPOSED	PT	PT-1		EXPOSED STRUCTURE- DRYFALL PAINT. SEE ATTACHED EPOXY SPEC
206	Inside Hallway and Kennels	EP	EP	EXPOSED	PT	PT-1		EXPOSED STRUCTURE- DRYFALL PAINT
207	Kennel Breezeway B	EP	EP	EXPOSED	PT	PT-1		EXPOSED STRUCTURE- DRYFALL PAINT
208	Breezeway C	SC	SSF	ST	PT	-		
210	Open Air Kennel (B)	EP	EP	EXPOSED	PT	PT-1		EXPOSED STRUCTURE- DRYFALL PAINT
211	Women Showers							
220	Open Air Kennel (A)	EP	EP	EXPOSED	PT	PT-1		EXPOSED STRUCTURE- DRYFALL PAINT
230	Covered Walkway	SC	SSF	ST	PT	-		
231	Covered Walkway	SC	SSF	ST	PT	-		
232	Covered Walkway	SC	SSF	ST	PT	-		

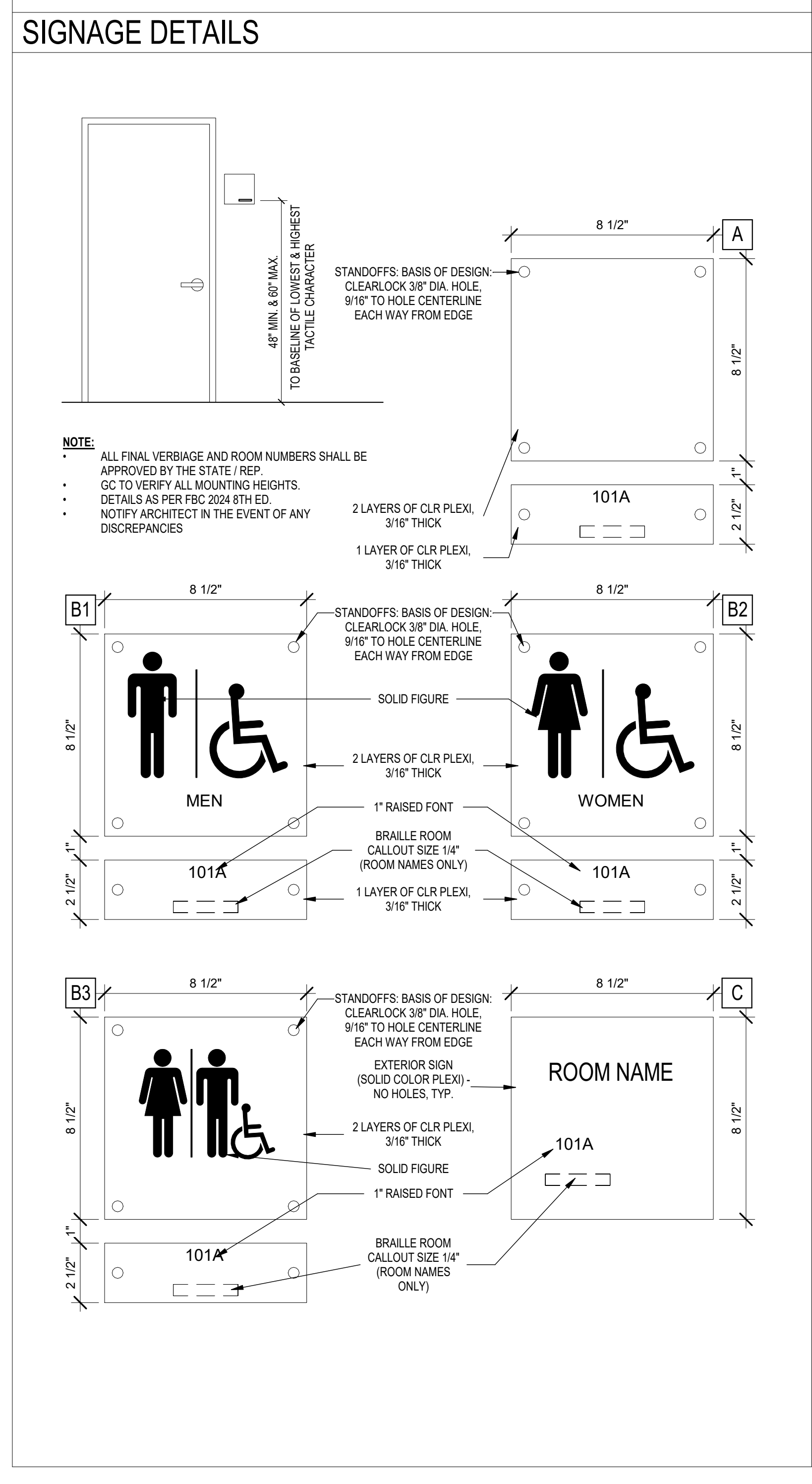
ROOM SIGNAGE SCHEDULE				
ROOM NO.	ROOM NAME	SIGNAGE TYPE	SIGN TEXT	COMMENTS
100A	Lobby	Type A	Lobby	
100B	Hallway	-	-	
101	Multi-Use Meeting Room	Type A	Meeting Room	
102	Break Room	Type A	Break Room	
103	Unisex Restroom	Type B3	Unisex Restroom	
104	Corporal Office	Type A	Corporal Office	
105	Scent Wall Storage	Type A	Storage	
106	Corporal Office	Type A	Corporal Office	
107	Secure EOD Aids Storage	Type A	Storage	
108	Copy Rm.	Type A	Copy Room	
109	Secure 57 Aids Storage	Type A	Storage	
110	Sergeant Office	Type A	Sergeant Office	
111	Scent Wall Storage	Type A	Scent Wall Storage	
112	Janitor	Type A	Janitor	
113	Men's Vestibule	Type B1	Men's Restroom	
113A	Men's Restroom	-	-	
113B	Men's Showers	-	-	
114	Women's Vestibule	Type B2	Women's Restroom	
114A	Women's Restroom	-	-	
114B	Women Showers	-	-	
115	Handlers' Office	Type A	Handlers' Office	
116	Closet	Type A	Closet	
117	MDF	Type A	MDF	
118	Material Storage	Type C	Storage	
119	Electrical	Type C	Electrical	
119A	HVAC	Type C	HVAC	
120	Bite-Suit & Food Storage	Type C	Storage	
204	Kennel Breezeway A	Type C	Kennel A	PROVIDE AT DOORS 204A AND 210B
206	Inside Hallway and Kennels	Type C	Kennels	PROVIDE AT DOORS 205, 206, AND 210A
207	Kennel Breezeway B	Type C	Kennel B	PROVIDE AT DOOR 207A, 207B, AND 210
208	Breezeway C	-	-	
210	Open Air Kennel (B)	Type C	Kennel B	
211	Women Showers			
220	Open Air Kennel (A)	Type C	Kennel A	
230	Covered Walkway	-	-	
231	Covered Walkway	-	-	
232	Covered Walkway	-	-	

WINDOW SCHEDULE ABBREVIATION	
ALUM	ALUMINUM
BS	BOTH SIDES
CO	CASED OPENING
CLWG	CLEAR WIGD GLASS
CSG	CASING
DBL	DOUBLE
DBL GLZ	DOUBLE GLAZED
F	FACTORY
FGI	FIBERGLASS
FIN	FINISH
EL	ELEVATION
GL	GLASS
GLZ	GLAZING
GRIL	GRILLE
HGT	HEIGHT
HORIZ	HORIZONTAL
MATL	MATERIAL
NA	NOT APPLICABLE
NAT	NATURAL
PREFIN	PREFINISHED
PT	PAINT
SGL	SINGLE
SST	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
THK	THICKNESS
TMPD GL	TEMPERED GLASS
TRANS	TRANSOM
TYP	TYPICAL
UNFIN	UNFINISHED
VAR	VARIABLE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WIDE
WOOD	WOOD
WGL	WIGD GLASS
WS	WEATHER STRIP

ROOM FINISH ABBREVIATION	
ACT	ACOUSTICAL CEILING TILE
AFF	ABOVE FLOOR FINISH
B.O.S.	BOTTOM OF STRUCTURE
CBG	CEMENTITIOUS BACKER BOARD
CMU	CONCRETE MASONRY UNITS
CONC	CONCRETE
CPT	CARPET
CT	CERAMIC TILE
EP	EPOXY PAINT
EX	EXISTING
EXP	EXPOSED STRUCTURE
F	FACTORY
FIN	FINISH
GB	GYP/PSUM BOARD
GL	GLASS
HORIZ	HORIZONTAL
IP	INSULATED PANEL
INT	INTERIOR
LMP	LINEAR METAL PANEL
LVT	LUXURY VINYL TILE
MATL	MATERIAL
MRGB	MOISTURE RESISTANT GYPSUM BOARD
MTL	METAL SIDING
NA	NOT APPLICABLE
PART	PARTITION WALL
PC	POLISHED CONCRETE
PT	PAINTED WALL
ST	STUCCO
SC	SEALED CONCRETE
SSF	SEALED SPLIT FACE CONCRETE BLOCK
TB	TILE BASE
UNFIN	UNFINISHED
VB	VINYL BASE
VFI	VINYL FACE INSULATION
VCT	VINYL COMPOSITION TILE
WD	WOOD
WCT	WAINSCOT

- ### ROOM FINISH SCHEDULE NOTES
- ALL COLORS TO BE SELECTED BY OWNER/ARCHITECT DURING SHOP DRAWING PHASE
 - ALL FLOORING AND BASE TO BE PROVIDED AND INSTALLED BY OWNER EXCEPT TILE, SEALED CONCRETE, EPOXY FLOORS AND EPOXY BASE. G.C. TO COORDINATE
 - ALL EXPOSED STRUCTURE RECEIVE DRYFALL PAINT
 - FLOOR TILE: DAL TILE VOLUME 1.0 SERIES PORCELAIN 12"X12"
 - WALL TILE: DAL TILE COLOR WHEEL CLASSIC CERAMIC TILE 4"X4" WITH 4"X4" BULLNOSE
 - SHOWER TILE: DAL TILE KEYSTONE SERIES CERAMIC 2"X2"

- ### DOOR SIGNAGE GENERAL NOTES
- LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH TO HEIGHT RATIO BETWEEN 3.5 AND 1.1 AND STROKE WIDTH TO HEIGHT RATIO BETWEEN 1.5 AND 1.10.
 - CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING UPPER CASE "X". LOWER CASE CHARACTERS ARE PERMITTED (3" MIN.).
 - LETTERS AND NUMERALS SHALL BE RAISED 1/32" UPPER CASE, SANS SERIF OR SIMPLE TYPE AND SHALL BE ACCOMPANIED WITH GRADE II BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8" HIGH, BUT NO HIGHER THAN 2". PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTIONS PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6" MINIMUM IN HEIGHT.
 - THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL MATTE OR OTHER NON-GLARE FINISH CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON DARK OR DARK CHARACTERS ON LIGHT.
 - WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3' OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF THE DOOR.
 - PANEL SIGNAGE TO BE EQUIVALENT TO DIVVILLE CLEAR LOOK WALL MOUNT WITH STANDOFFS



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ROOM FINISH SCHEDULE

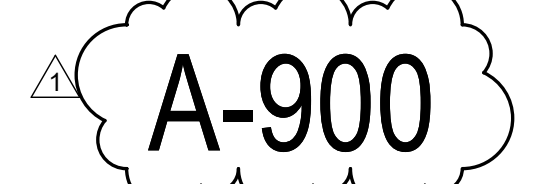
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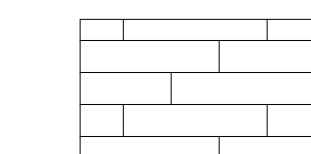
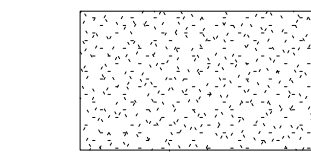
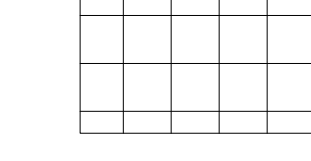
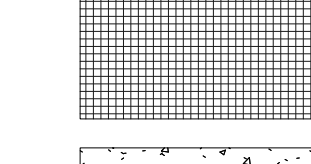
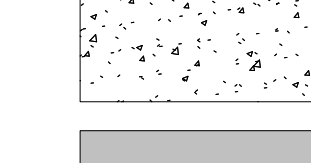
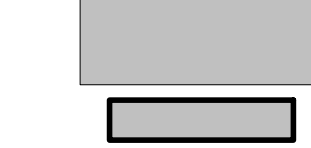
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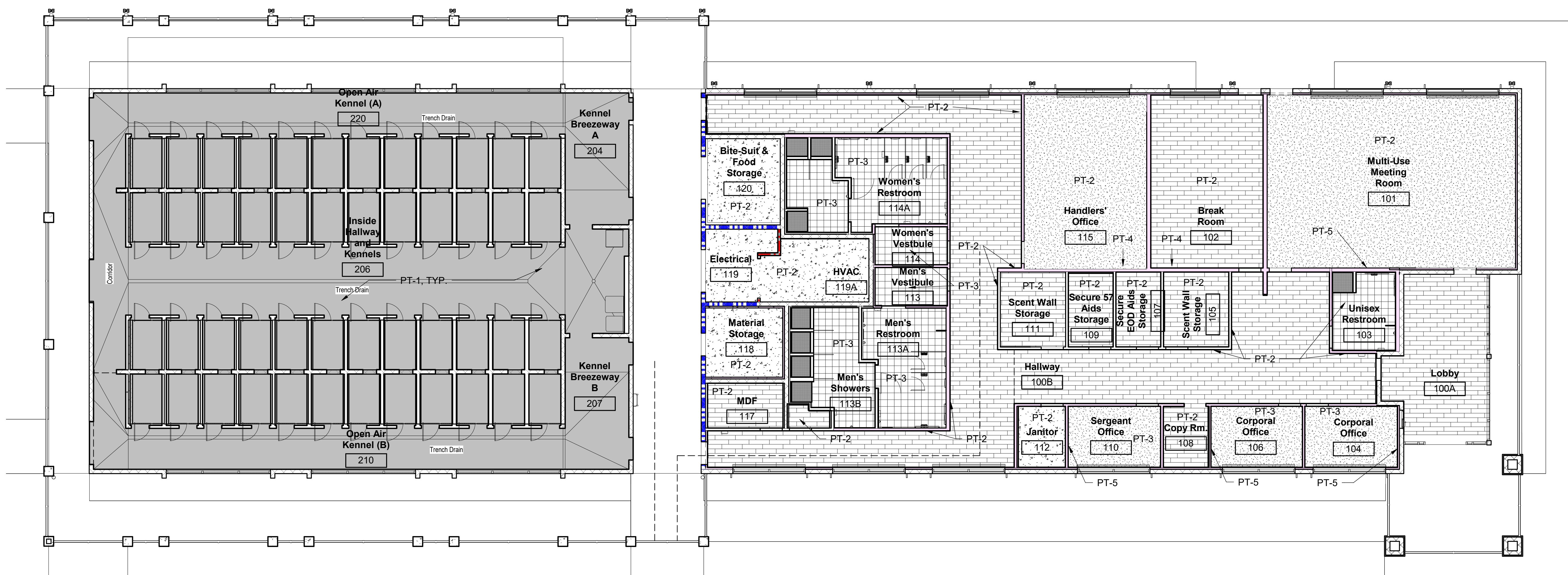


FINISH PLAN LEGEND

-  LVT - LUXURY VINYL TILE
PROVIDED AND INSTALLED BY OWNER
-  OPT - CARPET
PROVIDED AND INSTALLED BY OWNER
-  FT - FLOOR TILE
-  FT - SHOWER FLOOR TILE
-  SC - SEALED CONCRETE
-  PA - POLYSPARTIC FLOORING
-

FINISH PLAN NOTES

1. SHOULD THE GENERAL CONTRACTOR FIND ANY DISCREPANCIES, OMISSIONS, AMBIGUITIES, OR CONFLICTS IN THE DOCUMENTS THEY SHOULD BRING TO THE ATTENTION OF THE ARCHITECT BEFORE ORDERING MATERIALS AND/OR PROCEEDING WITH ANY WORK IN QUESTION.
2. THE GENERAL CONTRACTOR AND FLOORING INSTALLER ARE RESPONSIBLE TO VERIFY THE CONDITIONS OF THE SUBFLOOR AND THAT IT MEETS THE INSTALLATION SPECIFICATIONS AND TESTING REQUIREMENTS PRIOR TO THE INSTALLMENT OF ALL FLOORING MATERIALS.
3. ALL FLOORING MATERIALS AND ACCESSORIES ARE TO BE INSTALLED PER MANUFACTURER INSTALLATION INSTRUCTIONS, DETAILS, AND SPECIFICATIONS.
4. ALL FLOORING TRANSITIONS TO OCCUR BENEATH AND UNDER THE CENTER OF DOORS UNLESS OTHERWISE NOTED. WHERE FLOORING TRANSITIONS DO NOT OCCUR UNDER A DOOR, THE TRANSITIONS SHALL ALIGN WITH AN ADJACENT PARTITION.
5. FLOORING CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ALL LAYOUTS, FLOOR FINISH DIRECTIONAL LAYOUTS AND PATTERNS, AND ANY SEAMING DIAGRAMS NECESSARY FOR ALL FLOORING MATERIALS PRIOR TO INSTALLATION FOR APPROVAL OF OWNER, INTERIOR DESIGNER, AND ARCHITECT.
6. DIRECTIONS OF FLOORING PATTERNS SHOWN ON PLAN DOES NOT NECESSARILY INDICATE INSTALLATION DIRECTION OF MATERIALS.
7. PROVIDE NEW WALL BASE AT ALL NEW INTERIOR WALLS.
8. ALL FLOORING AND BASE TO BE PROVIDED AND INSTALLED BY OWNER EXCEPT TILE, SEALED CONCRETE, EPOXY FLOORS AND EPOXY BASE. G.C. TO COORDINATE.



1 OVERALL FINISH FLOOR PLAN
1/8" = 1'-0"

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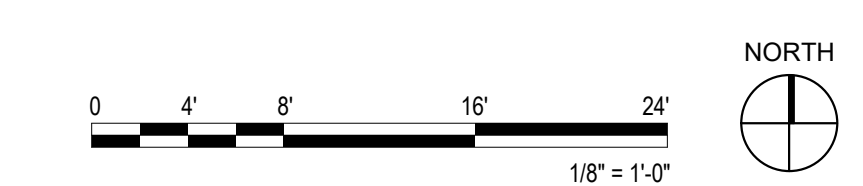
FINISH FLOOR PLAN

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A-910

GENERAL MECHANICAL SYMBOLS	
	REVISION NUMBER - SHOWN ON PLANS
	NEW CONNECTION TO EXISTING
	NUMBER OF DETAIL ON SHEET
	NUMBER OF SHEET WHERE DETAIL APPEARS
	KEYNOTE
	CONTINUATION SYMBOL
	ROOM NAME AND NUMBER
	PIPE SIZE TAG (DIAMETER)
	ABOVE GROUND PIPING
	PIPE SLOPE TAG
	BELOW GROUND PIPING
	PIPE INVERT ELEVATION TAG
ABBREVIATIONS	
ABV ABOVE	LVR LOUVER
AC AIR CONDITIONING	LWT LEAVING WATER TEMPERATURE
AD AREA DRAIN	MIA MIXED AIR
ADD ADDENDUM	MAX MAXIMUM
AFF ABOVE FINISHED FLOOR	MBH ONE THOUSAND BTU PER HOUR
AFUE ANNUAL FUEL UTILIZATION EFFICIENCY	MCF ONE THOUSAND CUBIC FEET
ALT ALTERNATE	MD MOTORIZED DAMPER
AP ACCESS PANEL	MECH MECHANICAL
ARCH ARCHITECT/ARCHITECTURAL	MFR MANUFACTURER
BFF BELOW FINISHED FLOOR	MIN MINIMUM
BTU BRITISH THERMAL UNITS	MISC MISCELLANEOUS
BTUH BRITISH THERMAL UNITS PER HOUR	MTR MOTOR
CAP CAPACITY	MUA MAKE-UP AIR
CB CATCH BASIN	NC NOISE CRITERIA
CFM CUBIC FEET PER MINUTE	NC NORMALLY CLOSED
CLG CEILING	NIC NOT IN CONTRACT
CO CLEAN OUT	NO NORMALLY OPEN
CW COLD WATER	NTS NOT TO SCALE
D DEGREE	NUM NUMBER
DB DRY BULB	O OXYGEN
DIA DIAMETER	OA OUTSIDE AIR
DN DOWN	ORD OVERFLOW ROOF DRAIN
DW DOMESTIC WATER	PD PRESSURE DROP
EAT ENTERING AIR TEMPERATURE	PIV POST INDICATOR VALVE
ELEC ELECTRICAL	PLBG PLUMBING
EQUIP EQUIPMENT	PRESS PRESSURE
EWV ELECTRIC WATER COOLER	PRV PRESSURE REDUCING VALVE
EWT ENTERING WATER TEMPERATURE	PSI POUNDS PER SQUARE INCH
EA EXHAUST AIR	PSIG POUNDS PER SQUARE INCH GAUGE
EXIST EXISTING	PWR POWER
F FUELS FAHRENHEIT	R RADIANT CEILING PANEL
FCO FLOOR CLEAN OUT	RA RETURN AIR
FD FLOOR DRAIN	RCP RADIANT CEILING PANEL
FDC FIRE DEPARTMENT CONNECTION	RD ROOF DRAIN
FL FLOOR	REC RECESSED
FO FUEL OIL	RED REDUCER
FOV FUEL OIL VENT	RH RELATIVE HUMIDITY
FOR FUEL OIL RETURN	RLA RELIEF AIR
FOS FUEL OIL SUPPLY	RM ROOM
FPM FEET PER MINUTE	RPM REVOLUTIONS PER MINUTE
FS FLOOR SINK	RW RAIN WATER
FT FOOT/FEET	SF SQUARE FOOT
FTR FIN TUBE RADIATION	SA SUPPLY AIR
GAL GALLON	SAN SANITARY
GF GAS-FIRED	SF SQUARE FOOT
GC GENERAL CONTRACTOR	SD SMOKE DAMPER
GPM GALLONS PER MINUTE	SM SURFACE MOUNT
GW GREASE WASTE	SP STANDPIPE
HB HOSE BIBB	SP STATIC PRESSURE
HP HORSEPOWER	STM STEAM
HTG HEATING	T THERMOSTAT
HTR HEATER	TD TEMPERATURE DROP
HW HOT WATER	TD TRENCH DRAIN
HYD HYDRANT	TEMP TEMPERATURE
ID INDIRECT	TYP TYPICAL
IN INCH	UG UNDERGROUND
INV INVERT	VAC VACUUM
LB POUND	V VENT
LBHR POUNDS PER HOUR	VAV VARIABLE AIR VOLUME
LAT LEAVING AIR TEMPERATURE	VENT VENTILATION
LP LOW PRESSURE	VTR VENT THROUGH ROOF
LPG LIQUEFIED PETROLEUM GAS	W WASTE
	WB WET BULB
	WCO WALL CLEAN OUT
	WH WALL HYDRANT
EQUIPMENT ABBREVIATIONS	
AHU AIR HANDLER UNIT	
CU CONDENSING UNIT	
RTU ROOF TOP UNIT	
EF EXHAUST FAN	
VAV VARIABLE AIR VOLUME	
RH ROOF HOOD	
CD CEILING DIFFUSER	
SG SUPPLY GRILLE	
RG RETURN GRILLE	
EG EXHAUST GRILLE	

HVAC SYMBOLS	
	SUPPLY AIR
	CONDITIONED OUTSIDE AIR
	OUTSIDE AIR
	RETURN AIR
	TRANSFER AIR
	EXHAUST AIR
	RELIEF AIR
	RECTANGULAR SUPPLY/OUTSIDE AIR DUCT RISE
	ROUND SUPPLY/OUTSIDE AIR DUCT RISE
	RECTANGULAR RETURN/TRANSFER AIR DUCT RISE
	ROUND RETURN/TRANSFER AIR DUCT RISE
	RECTANGULAR EXHAUST/RELIEF AIR DUCT RISE
	ROUND EXHAUST/RELIEF AIR DUCT RISE
GRILLES, REGISTERS & DIFFUSERS TAG	
	SD-XX TYPE (SEE SCHEDULE)
	XXX CFM CFM
	RG-XX TYPE (SEE SCHEDULE)
	XXX CFM CFM
	EG-XX TYPE (SEE SCHEDULE)
	XXX CFM CFM
DATA DEVICE TAGS	
	TH RTU-XX TEMPERATURE & HUMIDITY SENSOR
	TS VAV-XX TEMPERATURE SENSOR
	T THERMOSTAT
	MS MANUAL SWITCH
	S SENSOR
DAMPERS	
	MANUAL BALANCING DAMPER
	MOTORIZED DAMPER
	BACKDRAFT DAMPER
PIPING SYMBOLS	
	CONDENSATE DRAINAGE
	REFRIGERANT LINE
	CONDENSATE RETURN

- ### GENERAL NOTES
- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATIVE OF WORK TO BE PROVIDED (FURNISHED AND INSTALLED) UNDER THIS CONTRACT. DRAWINGS SHOULD NOT BE SCALED.
 - PRIOR TO ORDERING AND FABRICATING ANY EQUIPMENT, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE PHYSICAL CONDITIONS AT THE PROJECT SITE AND VERIFY SPACE AND SUFFICIENT CLEARANCES ARE AVAILABLE FOR INSTALLING EQUIPMENT, DUCTWORK, PIPING, AND APPURTENANCES, AND TO DETERMINE ANY NECESSARY MODIFICATIONS.
 - PERFORM ALL WORK IN COMPLIANCE WITH ALL APPLICABLE LATEST FEDERAL, STATE, AND LOCAL CODES, REGULATIONS, AND STANDARDS ADOPTED BY THE AUTHORITY HAVING JURISDICTION. IF CONFLICTS EXIST BETWEEN THESE ENGINEERING DOCUMENTS AND CODES, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
 - FLORIDA BUILDING CODE (FBC) 2023
 - FLORIDA EXISTING BUILDING CODE 2023
 - FBC MECHANICAL 2023
 - FBC PLUMBING 2023
 - FBC ENERGY CONSERVATION 2023
 - FLORIDA FIRE PREVENTION CODE 2023
 - NFPA 1-2024, THE UNIFORM FIRE CODE
 - NFPA 101-2021, THE LIFE SAFETY CODE
 - NFPA 51B-2019, STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING AND OTHER HOT WORK
 - NFPA 13-2019, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
 - NFPA 70-2020, NATIONAL ELECTRICAL CODE
 - NFPA 90A-2021 STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTING SYSTEMS.
 - NFPA 241-2019, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS.
 - CONTRACTOR SHALL COORDINATE AND SEQUENCE CLEANING AND CONSTRUCTION WORK.
 - CONTRACTOR SHALL NOTE ANY SPECIAL REQUIREMENTS FOR INSTALLATION OF WORK UNDER THIS CONTRACT. DISMANTLE AND REASSEMBLE EQUIPMENT AS NECESSARY FOR ENTRY INTO THE BUILDING AND THE LOCATION OF INSTALLATION.
 - THE CONTRACTOR SHALL MAINTAIN A COMPLETE PROJECT SCHEDULE AND SHALL UPDATE THIS SCHEDULE WEEKLY. ANY CHANGES SHALL BE NOTED AND AN UPDATED SCHEDULE SHALL BE PROVIDED TO THE OWNER.
 - ALL PERMITS, FEES, TAXES, ETC SHALL BE PAID BY CONTRACTOR AS PART OF THE TOTAL PROJECT COST.
 - MAINTAIN THE INTEGRITY OF ALL FIRE AND SMOKE RATED WALLS, PARTITIONS, CEILINGS, AND FLOORS. SEAL ALL PENETRATIONS THROUGH RATED ASSEMBLIES WITH FIRESTOP MATERIAL IN ACCORDANCE WITH U.L. REQUIREMENTS TO MAINTAIN THE ASSEMBLY RATING.
 - CONTRACTOR SHALL FURNISH U.L. APPROVED DRAWINGS FOR EACH TYPE OF FIRE AND SMOKE RATED ASSEMBLY PENETRATION BY DUCTS, PIPES, OR CONDUITS, AND SHALL DISPLAY THESE DRAWINGS ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.
 - CONTRACTOR SHALL REFER TO ALL DETAILS FOR PROPER GUIDANCE.
 - THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND EQUIPMENT SUBMITTALS FOR ALL PRODUCTS USED ON PROJECT.
 - THE ENGINEER'S APPROVAL OF SUBMITTAL DATA SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DEVIATIONS FROM THE REQUIREMENTS OF CONTRACT DOCUMENTS UNLESS THE CONTRACTOR HAS RECEIVED WRITTEN APPROVAL FROM THE ENGINEER TO THE SPECIFIC DEVIATION. THE ENGINEER'S APPROVAL OF SUBMITTAL DATA SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN HIS OR HER SUBMITTAL DATA.
 - CLOSE OUT DOCUMENTS: THE CONTRACTOR IS TO MAINTAIN ONE SET OF CONSTRUCTION DRAWINGS ON SITE AND KEEP CURRENT WITH MARK UP AS-BUILT CONDITIONS DURING CONSTRUCTION OF THE PROJECT. THIS SET IS TO INCLUDE ALL CONTRACT CHANGES, MODIFICATIONS AND CLARIFICATIONS. THIS SET ALONG WITH ALL SHOP DRAWINGS SHALL BE TURNED OVER TO THE ARCHITECT/ENGINEER AFTER CONSTRUCTION COMPLETION.
 - IT IS THE RESPONSIBILITY OF ALL BIDDERS TO THOROUGHLY REVIEW AND UNDERSTAND ALL CONSTRUCTION DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO ALL DRAWINGS, SPECIFICATION SECTIONS, ETC. THE DRAWINGS ARE SCHEMATIC IN NATURE. THEREFORE BEFORE STARTING ANY WORK, THE CONTRACTOR SHALL REVIEW ALL OTHER CONSTRUCTION DOCUMENTS, VERIFY FIELD CONDITIONS AND SHALL MAKE ANY REQUIRED MINOR ADJUSTMENTS WITHOUT EXTRA COST TO THE OWNER. ANY MAJOR DISCREPANCIES FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE BASE BID SHALL REFLECT THE TOTAL COST OF NEW EQUIPMENT INSTALLATION. THIS INCLUDES LABOR, EQUIPMENT AND MATERIALS. NO CHANGE ORDERS SHALL BE ISSUED WITHOUT WRITTEN CONSENT AND APPROVAL FROM ENGINEER AND ARCHITECT.


HVAC SHEET INDEX	
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		6/11/2024

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Project 202066



Hillsborough County Sheriff's Office Regional Canine Training Center

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MECHANICAL NOTES, LEGENDS, & SYMBOLS

2023559

M-001

MECHANICAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS PRIOR TO BEGINNING WORK AND ORDERING EQUIPMENT, AND FOR COORDINATING NEW EQUIPMENT DIMENSIONS AND MEANS AND METHODS FOR INSTALLATION WITH FIELD CONDITIONS.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH SUBMITTED EQUIPMENT TO ENSURE ALL INLET/OUTLET CONNECTIONS COORDINATE WITH FIELD INSTALLED DUCTWORK AND MAKE ANY NECESSARY DUCT MODIFICATIONS TO ENSURE PROPER OPERATION OF MECHANICAL EQUIPMENT.
- SUBMITTALS SHALL MEET SCHEDULED DESIGN CHARACTERISTICS, INCLUDING BUT NOT LIMITED TO CFMS, EAT(DBWB), ESP, CAPACITIES, VOLTAGES/PHASES, MCAMOC, P, SONES, ETC.
- ALL DUCT CONSTRUCTION, INSTALLATION, AND SUPPORTS ARE TO COMPLY WITH LATEST EDITION OF SMACNA'S HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE DUCT. ALL DUCTWORK SHALL BE 2" PRESSURE CLASS UNLESS OTHERWISE NOTED.
- ROUND DUCTS AND FITTINGS SHALL BE SPIRAL SEAM CONSTRUCTION, MANUFACTURED FROM G60 GALVANIZED STEEL ACCORDING TO ASTM A653/A924 AND AS SPECIFIED. RECTANGULAR DUCTWORK SHALL BE MANUFACTURED FROM G60 GALVANIZED SHEET METAL STEEL ACCORDING TO ASTM A653/A653M AND AS SPECIFIED.
- INSULATE ALL EXPOSED DUCTWORK IN MECHANICAL ROOMS WITH EXTERNAL MINERAL-FIBER DUCT BOARD, JOHNS MANVILLE SPIN-GLAS OR EQUAL. DUCT BOARD SHALL BE 2" THICK, 4.25 LB/CF NOMINAL DENSITY FOR SOUND ABSORPTION, INSTALLED R-VALUE = 6 MINIMUM, COMPLYING WITH ASTM C812 TYPE 1A OR TYPE 1B. PROVIDE WITH FSK VAPOR BARRIER JACKET AND ALL JOINTS SECURELY TAPED WITH PRESSURE SENSITIVE TAPE PER FMC 603, FASSON 0810 OR APPROVED EQUAL, AND COVERED WITH MASTIC AND FIBROUS GLASS FABRIC. MASTIC SHALL BE APPLIED CLEANLY MEANING THAT EDGES SHALL BE TAPED OFF PRIOR TO APPLYING THEN REMOVED IN ORDER TO GIVE CLEAN MASTIC EDGES/LINES. AFTER MASTIC HAS DRIED, FOIL TAPE WITH BUTYL ADHESIVE BACKING SIMILAR TO HARDCAST PRODUCTS SHALL BE USED TO COVER MASTIC TO PROVIDE A CLEAN FOIL DUCT WITH NO MASTIC EXPOSED. METAL TO FIBERGLASS CONNECTIONS TO BE MADE USING 3" WIDE GLASS FABRIC TAPE WITH FOSTER 30/35 MASTIC OR EQUAL. SUPPORT DUCTS WITH 1x2x1 22-GAGE MINIMUM CHANNELS AND STRAP OR 12-GAGE WIRE FROM BUILDING CONSTRUCTION. SUSPEND FROM JOISTS WITH BEAM CLAMPS. PROVIDE HOT DIPPED STEEL FASTENERS, ANCHORS, RODS, STRAPS, TRIM AND ANGLES FOR SUPPORT OF DUCTWORK.]
- ALL WALL-MOUNTED THERMOSTATS AND/OR TEMPERATURE SENSORS SHALL BE INSTALLED AT AN ELEVATION OF 48" ABOVE FINISHED FLOOR TO THE TOP UNLESS OTHERWISE NOTED ON DRAWINGS. LOCATION OF WALL-MOUNTED THERMOSTATS SHALL BE COORDINATED WITH OTHER TRADES FOR A NEAT APPEARANCE. FINAL LOCATION OF THERMOSTATS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER OR REPRESENTATIVE IN THE FIELD.
- ALL SUPPLY AIR DIFFUSERS SHALL BE 4-WAY THROW UNLESS NOTED OTHERWISE. CONTRACTOR SHALL PAINT INSIDE EACH RETURN GRILLE'S PLENUM AND DUCT CONNECTION FLAT BLACK TO CONCEAL CONNECTION. COORDINATE AIR DEVICE LOCATIONS WITH LIGHTING FIXTURES AND FIRE SPRINKLER HEADS. PRIOR TO INSTALLATION, THE CONTRACTOR IS TO REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR ACTUAL FINAL LOCATIONS OF AIR DEVICES.
- DIFFUSERS/GRILLES SHALL NEVER BE INSTALLED ON SURFACE OF ACOUSTICAL LAY-IN TILE. ALL DIFFUSERS/GRILLES IN LAY-IN CEILINGS SHALL BE LAY-IN PANEL MOUNT. REFER TO SCHEDULE. GYPSUM BOARD SURFACE MOUNT DIFFUSERS SHALL NOT BE BEVEL MOUNT.
- CONTRACTOR SHALL COORDINATE DIFFUSER/GRILLE LOCATIONS WITH STRUCTURE IN EXPOSED SITUATIONS IN ORDER TO ENSURE AIR IS NOT DIRECTLY SUPPLIED OR RETURNED OVER STRUCTURE OR OTHER TRADE COMPONENTS SUCH AS FIRE SPRINKLER PIPING, PLUMBING PIPING, ETC., CAUSING DUST ACCUMULATION. DUCTWORK ALONG WITH DIFFUSER/GRILLE LOCATIONS SHALL BE INSTALLED SYMMETRICALLY WITH ANY ADJACENT DUCTWORK/GRILLES. CENTER DIFFUSERS/GRILLES BETWEEN STRUCTURAL MEMBERS WHERE DUCTWORK AND STRUCTURAL MEMBERS ARE EXPOSED. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL INSTALLATION APPEARANCE AND SHALL MAKE APPROPRIATE CHANGES WHERE DIRECTED BY ARCHITECT/ENGINEER AT THEIR OWN EXPENSE WHERE ITEMS ARE NOT INSTALLED PER ABOVE STANDARDS.
- CONTRACTOR SHALL PROVIDE A COPY OF THE TEST AND BALANCE REPORT BY AN AABC OR NEBB CERTIFIED AGENCY. THIS REPORT MUST BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO THE FINAL INSPECTION. THE CONTRACTOR MUST ALSO PROVIDE ALL REPORTS REQUIRED BY THE SPECIFICATION. OUTDOOR TEMPERATURE (DB); OUTSIDE AIR (DBWB & CFM); SUPPLY AIR AT UNIT DISCHARGE (DBWB & CFM); RETURN AIR (MIXED) (DBWB & CFM); LEAVING COIL (DBWB); DIFFUSER/GRILLE (DBWB); EQUIPMENT (EWT/LWT); EQUIPMENT (EAT/LAT); EQUIPMENT (GPM); EQUIPMENT (PRESSURES). OUTSIDE AIR CFM SHALL BE MEASURED DIRECTLY AND NOT CALCULATED FROM THE DIFFERENCE BETWEEN SUPPLY AIR CFM AND RETURN AIR CFM.
- CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS DURING TEST AND BALANCE AS REQUIRED TO ENSURE EQUIPMENT IS OPERATING WITHIN 10% OF THE SPECIFIED CRITERIA. THIS INCLUDES, BUT IS NOT LIMITED TO, ADJUSTING BELTS, SHEAVES, PULLEYS, AND IMPELLERS.
- ALL AIR HANDLING UNITS SHALL BE MECHANICALLY ATTACHED TO OTHER AIR DISTRIBUTION SYSTEM COMPONENTS. AIR HANDLING UNITS LOCATED OUTSIDE THE CONDITIONED SPACE SHALL BE SEALED USING APPROVED CLOSURE SYSTEMS CONFORMING TO THE APPROVED CLOSURE AND MECHANICAL APPLICATION REQUIREMENTS OF FLORIDA BUILDING CODE.
- ALL DUCTWORK MUST BE INSTALLED 6" AWAY FROM ANY FIRE RATED WALL TO FACILITATE INSPECTION.
- WHEN DUCTWORK IS INSTALLED 12 FT. OR MORE ABOVE THE FINISHED FLOOR, WRITE DUCT SIZES IN LARGE FONT ON THE BOTTOM OF DUCTWORK, SUCH THAT DUCT SIZES CAN BE OBSERVED AT FLOOR LEVEL WITHOUT THE NEED OF A LADDER OR MEASUREMENTS.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL TRADES INSTALLATION SCHEDULES, FIXED WORK SUCH AS DUCTWORK AND PLUMBING SHALL BE INSTALLED PRIOR TO ANY TRADE WORK THAT CAN BE EASILY RELOCATED OR OFFSET SUCH AS ELECTRICAL CONDUITS, SMALL WATER LINES, ETC. IDEALLY DUCTWORK SHALL BE INSTALLED FIRST.
- PROVIDE A FIRE DAMPER AT EVERY DUCT PENETRATION OF A FIRE-RATED WALL OR CEILING, WHETHER SHOWN ON DRAWINGS OR NOT. ALL FIRE DAMPERS SHALL BE DYNAMIC TYPE WITH BLADES OUTSIDE AIRSTREAM, UNLESS NOTED OTHERWISE.
- PROVIDE FIRE, SMOKE, AND COMBINATION FIRE/SMOKE DAMPERS AT EVERY LOCATION WHERE REQUIRED BY SECTION 607.5 OF THE FBC-MECHANICAL, WHETHER SHOWN ON DRAWINGS OR NOT. PROVIDE PROPER DAMPER ACTUATION IN ACCORDANCE WITH SECTION 607.3.3 OF THE FBC-MECHANICAL. PROVIDE ACCESS AND IDENTIFICATION IN ACCORDANCE WITH SECTION 607.4 OF THE FBC-MECHANICAL.
- WHERE SMOKE OR COMBINATION FIRE/SMOKE DAMPERS ARE REQUIRED, THE ELECTRICAL OR FIRE ALARM CONTRACTOR (MECHANICAL CONTRACTOR TO COORDINATE) SHALL PROVIDE 120V POWER AND ENSURE PROPER OPERATION UPON ACTIVATION. PROVIDE PROPER DAMPER ACTUATION IN ACCORDANCE WITH SECTION 607.3.3.2 OF THE FBC-MECHANICAL.
- PROVIDE A DUCT SMOKE DETECTOR IN THE SUPPLY AIR DUCT, DOWNSTREAM OF THE AIR FILTERS AND AHEAD OF ANY BRANCH CONNECTIONS, FOR ALL SYSTEMS HAVING A DESIGN CAPACITY GREATER THAN 2,000 CFM.
- PENETRATIONS FOR PIPES, CONDUITS OR OTHER PURPOSES THROUGH ASSEMBLIES (FLOORS, ROOF, WALLS, PARTITIONS, ETC.) WITH A REQUIRED FIRE RESISTANCE RATING SHALL BE SEALED TO THE PENETRATING MEMBER IN AN APPROVED MANNER WHICH MAINTAINS THE REQUIRED FIRE RESISTANCE RATINGS OF THE ASSEMBLY.
 - WHERE HOLES FOR PENETRATIONS ARE FORMED CIRCULAR OR CORE-BORED, THE PENETRATION SHALL BE PROTECTED WITH FIRE-SEAL BRAND SMOKE AND FIRE STOP FITTINGS BY O-Z GEDNEY, LINK-SEAL BRAND BY THUNDER LINE, OR EQUAL APPROVED BY ENGINEER.
 - WHERE HOLES FOR PENETRATIONS ARE IRREGULAR (NON-CIRCULAR) IN SHAPE, THE PENETRATION SHALL BE PROTECTED WITH DOW CORNING 3-6548, SILICONE RTV FOAM, 3M FIRE BARRIER PENETRATION SEAL SYSTEM, OR EQUAL APPROVED BY THE ENGINEER.
- INTENT OF MECHANICAL NOTES ON DRAWINGS IS TO CLARIFY THE SCOPE OF WORK AND ALERT CONTRACTOR OF EXISTING CONDITIONS. CONTRACTOR IS TO VISIT THE SITE AND VERIFY ALL CLEARANCES BEFORE FABRICATION OF DUCTWORK, AND PROVIDE ADDITIONAL OFFSET AND/OR CHANGES IN DUCT SIZES TO MEET FIELD CONDITIONS, AND TO COORDINATE WITH ELECTRICAL, PLUMBING, AND FIRE PROTECTION SUBCONTRACTORS, BEFORE ANY CONSTRUCTION WORK.
- FLEXIBLE AND RIGID ROUND DUCT TAKE-OFFS FOR DIFFUSERS SHALL BE THE SAME SIZE AS DIFFUSER NECK. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 5'-0".
- INSTALL DUCTWORK AS HIGH AS POSSIBLE, TIGHT TO BOTTOM OF STRUCTURE, UNLESS NOTED OTHERWISE. COORDINATE DUCT ELEVATIONS WITH RAIN LEADERS, WATER PIPING, SANITARY DRAINS, AND MAJOR ELECTRICAL CONDUITS.
- CONTRACTOR SHALL PROVIDE ALL SUPPLEMENTARY STEEL, STRUCTURES, INSERTS, SLEEVES, AND HANGING DEVICES REQUIRED TO INSTALL AND ADEQUATELY SUPPORT MECHANICAL EQUIPMENT AND COMPONENTS IN A MANNER WHICH WILL NOT OVERLOAD BUILDING STRUCTURE. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND ALL BUILDING TRADES TO AVOID CONFLICTS AND TO MAINTAIN EQUIPMENT ACCESS AND SERVICEABILITY.

UL 181 10/10/10

MECHANICAL NOTES

- CONTRACTOR SHALL INSTALL MOTORIZED OUTSIDE AIR DAMPERS FOR ALL AIR HANDLING EQUIPMENT. AIR HANDLING UNITS SHALL HAVE AN EQUIVALENT OR BETTER OF RUSKIN "CD50" DAMPER, WHICH SHALL MODULATE PER 24V ACTUATOR MECHANICALLY WIRED. ALL DAMPERS SHALL CLOSE UPON UNIT SHUTDOWN.
- PROVIDE A TRAP IN ALL CONDENSATE PIPING LOCATED AT THE AIR HANDLING EQUIPMENT. INSULATE ALL CONDENSATE LINES WITH 1/2" CLOSED CELL FOAM INSULATION. ALL PIPING EXPOSED TO EXTERNAL ELEMENTS SHALL BE JACKETED WITH UV STABILIZED PVC OR ALUMINUM SHEETING.
- PROVIDE A 4" HIGH CONCRETE HOUSEKEEPING PAD UNDER ALL MECHANICAL EQUIPMENT, UNLESS NOTED OTHERWISE. PADS SHALL BE 4" LARGER THAN EQUIPMENT ON ALL SIDES.
- ALL UNDERGROUND PIPING SHALL HAVE A MINIMUM 3'-0" OF COVER, UNLESS NOTED OTHERWISE.
- AIR HANDLING EQUIPMENT WARRANTIES SHALL BE EQUAL TO OR EXCEED WARRANTY OF SCHEDULED EQUIPMENT, UNLESS NOTED OTHERWISE.
- PROVIDE ADDITIONAL DUCTWORK AND PIPING SUPPORTS ON BOTH SIDES AND WITHIN 18" OF EACH FIRE RATED WALL. DUCTWORK OR PIPING SHALL NOT BE SUPPORTED FROM ANY FIRE RATED WALL.
- PROVIDE SINGLE WALL TURNING VANES IN ALL RECTANGULAR DUCT ELBOWS WITH ANGLES FROM 45 DEGREES TO 90 DEGREES, EXCEPT FOR TRANSFER ELBOWS. TURNING VANES SHALL BE PROVIDED ACCORDING TO SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE.
- DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS (FREE AREA).
- CONTRACTOR SHALL COORDINATE ALL INTAKE/EXHAUST LOCATIONS TO ENSURE MINIMUM 10'-0" DISTANCE BETWEEN ANY INTAKES AND EXHAUSTS, PLUMBING VENTS, BELIEF, ETC.
- ALL HVAC EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS UNLESS INDICATED OTHERWISE.
- MECHANICAL CONTRACTOR SHALL SIZE AND INSTALL REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. REFRIGERANT PIPING SHALL BE TYPE "L" COPPER WITH SOLDERED OR BRAZED JOINTS AND 1" CLOSED CELL INSULATION. ALL PIPING EXPOSED TO EXTERNAL ELEMENTS SHALL BE JACKETED WITH UV STABILIZED PVC OR ALUMINUM SHEETING. PRE-CHARGED LINES AND SOLDER ON SHORT 90'S ARE NOT ACCEPTABLE. CONTRACTOR SHALL USE SWEEPING 90'S AT EVERY BEND WITH EXCEPTION OF EQUIPMENT CONNECTIONS.
- CONTRACTOR SHALL PROVIDE A PERMANENT/PROFESSIONAL LABEL FOR EACH PIECE OF EQUIPMENT, ASSOCIATED THERMOSTAT(S) AND/OR SENSOR(S).
- EQUIPMENT LOCATION IDENTIFICATIONS AT CEILINGS: WHERE VALVES, EQUIPMENT SUCH AS VAV BOXES, FANS, ETC., CIRCUIT BREAKERS, OR OTHER ITEMS SUBJECT TO ROUTINE SERVICE, ARE MOUNTED IN A CONCEALED AREA ABOVE A CEILING, THE CEILING MUST BE MARKED WITH A LABEL UNDER THE SERVICED DEVICE. THE LABEL SHALL CARRY APPROPRIATE IDENTIFICATION TAG.
- DUCTWORK, DIFFUSERS, REGISTERS, GRILLES, AND OTHER MECHANICAL SYSTEM COMPONENTS SHALL NOT BE SUPPORTED BY THE CEILING OR CEILING SUSPENSION SYSTEM.
- METAL DUCTWORK SHALL BE CONNECTED TO MECHANICAL EQUIPMENT WITH FLEXIBLE DUCT CONNECTORS EQUAL TO DURO DYNE "SUPER METAL-FAB" WITH EXCELOM FABRIC "GRIP LOC" SEAM, 24 GAGE METAL TABS. INSULATION SHALL BE INSTALLED OVER METAL TABS AS TO CAUSE FRICTION ON FABRIC.
- LOW PRESSURE SUPPLY, RETURN, AND TRANSFER AIR DUCTS SHALL BE 1/4" THICK DUCT BOARD, R-VALUE = 6 MINIMUM (EQUAL TO JOHNS MANVILLE BONDED WITH THERMO SETTING RESIN ON AIR STREAM SIDE WITH AN ANTI-MICROBIAL COATING). ALL FIBROUS GLASS DUCTWORK SHALL BE CONSTRUCTION AND SEALED FOLLOWING SMACNA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS 2003 EDITION, WITH CLASS 1 MATERIALS LISTED AND LABELED TO UL STANDARD 181. FACING SHALL BE FSK ALUMINUM FOIL. CONSTRUCTION SHALL COMPLY WITH RECOMMENDATIONS AND DETAILS IN SMACNA AND NAIMA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS AND MANUFACTURER'S RECOMMENDATIONS. ALL JOINTS SHALL BE SECURELY TAPED WITH FASSON 0810 OR APPROVED EQUAL PRESSURE SENSITIVE TAPE AND MASTICED WITH FABRIC REINFORCEMENT. METAL TO FIBERGLASS CONNECTIONS TO BE MADE USING 3" WIDE GLASS FABRIC TAPE WITH FOSTER 30/35 MASTIC OR EQUAL. SUPPORT DUCTS WITH 1x2x1 22-GAGE MINIMUM CHANNELS AND STRAP OR 12-GAGE WIRE FROM BUILDING CONSTRUCTION. SUSPEND FROM JOISTS WITH BEAM CLAMPS. PROVIDE HOT DIPPED STEEL FASTENERS, ANCHORS, RODS, STRAPS, TRIM AND ANGLES FOR SUPPORT OF DUCTWORK. ALL INSULATION SEAMS SHALL BE CLEAN AND AESTHETICALLY PLEASING. APPLY DUCT TAPE OVER TAPED, GLASSED, AND MASTICED JOINTS EQUAL TO HARD CAST ADHESIVE/SEALANT TAPE WITH FOIL FACE TO MATCH DUCTBOARD FOIL FACE.
- EXPOSED DUCTWORK SHALL BE DOUBLE WALL INSULATED DUCT EQUAL TO LINDAB "SPIROSAFE OR SPIROVAL DOUBLE WALL SELF SEALING DUCT" WITH 2" R=8 INSULATION. DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH LATEST SMACNA STANDARDS UNLESS OTHERWISE NOTED. ALL EXPOSED DUCT SHALL CONTAIN FACTORY ADDED DIFFUSERS/GRILLES EQUAL TO SCHEDULED MAKE AND MODEL. PAINT GRIP AND PAINT PER ARCHITECT. UNLESS OTHERWISE NOTED.
- ALL RETURN AIR DUCTWORK SHALL BE INTERNALLY INSULATED SHEET METAL CONSTRUCTION, UNLESS DOUBLE WALL INSULATED, IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS UNLESS OTHERWISE NOTED. DUCT INSULATION SHALL BE 1/2" THICK DUCT BOARD (EQUAL TO JOHNS MANVILLE BONDED WITH THERMO SETTING RESIN ON AIR STREAM SIDE WITH AN ANTI-MICROBIAL COATING) AND CONFORM WITH UL STANDARDS FOR SAFETY AIR DUCT, NO. 181, 1967 ESTABLISHED FOR CLASS 1 AIR DUCTS. FACING SHALL BE FSK ALUMINUM FOIL.
- ALL EXHAUST DUCT WORK SHALL BE NON-INSULATED SHEET METAL, UNLESS NOTED OTHERWISE.
- ALL FLEXIBLE DUCTS SHALL BE LISTED AND LABELED TO UL 181 AND SHALL BE CLASS 0 OR CLASS 1. FLEXIBLE DUCTS SHALL HAVE A MINIMUM RATED AIR VELOCITY OF 4000 FPM, A MINIMUM POSITIVE PRESSURE RATING OF 4 IN. WG, AND A MINIMUM NEGATIVE PRESSURE RATING OF 1 IN. WG. ALL FLEXIBLE DUCTS SHALL MEET 2020 FLORIDA BUILDING CODE MECHANICAL SECTION 603.6.
- DRYER VENT DUCTING WHERE ACCESSIBLE THROUGH OUT THE ENTIRE RUN SHALL BE CONSTRUCTED OF G-90 GALVANIZED STEEL WITH SNAP LOCK LONGITUDINAL SEAMS. INSTALL DUCTING WITH SEAMS ON TOP TO PREVENT LEAKAGE. TAPE ALL SEAMS WITH FOIL TAPE. ALL 45'S & 90'S SHALL BE ALUMINIZED STEEL, MANUFACTURED BY "IN-O-VATE TECHNOLOGIES, INC.". LONG RADIUS.
- CONTRACTOR SHALL SUPPLY PIPE SUPPORTS 4'-0" ON CENTERS FOR REFRIGERANT LINES AND CONDENSATE LINES. SUPPORTS SHALL BE PER DETAILS.
- ALL DOOR UNDERCUTS FOR THE PURPOSE OF BALANCING RETURN AIR SHALL BE MINIMUM 1", PER FBC-MECHANICAL SECTION 601.6.
- ALL CONTROL WIRING SHALL BE INCLUDED AS PART OF MECHANICAL WORK; REFER TO ELECTRICAL SPECIFICATIONS FOR CONDUIT AND WIRING REQUIREMENTS. COORDINATE WITH ELECTRICAL CONTRACTOR TO ENSURE THAT REQUIRED INTERFACE DEVICES ARE PROVIDED WITH ELECTRICAL COMPONENTS (I.E. FAN SPEED RHEOSTATS, AUXILIARY CONTACTS, INTERLOCKS, ETC.).
- ALL EQUIPMENT DISCONNECTS, WHETHER INTERNALLY MOUNTED OR EXTERNALLY MOUNTED, SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. WIRED BY ELECTRICAL CONTRACTOR. IF EXTERNALLY MOUNTED, PROVIDE DISCONNECTING MEANS AT SAME ELEVATION AS EQUIPMENT. REFER TO ELECTRICAL SPECIFICATIONS FOR REQUIREMENTS.
- MECHANICAL CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE BIDDING/ORDERING AND INSTALLATION.
- WHERE MOTOR SPEED CONTROL IS REQUIRED, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE APPROPRIATE METHOD OF SPEED CONTROL. TYPICALLY, SINGLE PHASE MOTORS REQUIRE SPEED CONTROLLERS, AND THREE PHASE MOTORS REQUIRE VFD'S.



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MECHANICAL NOTES

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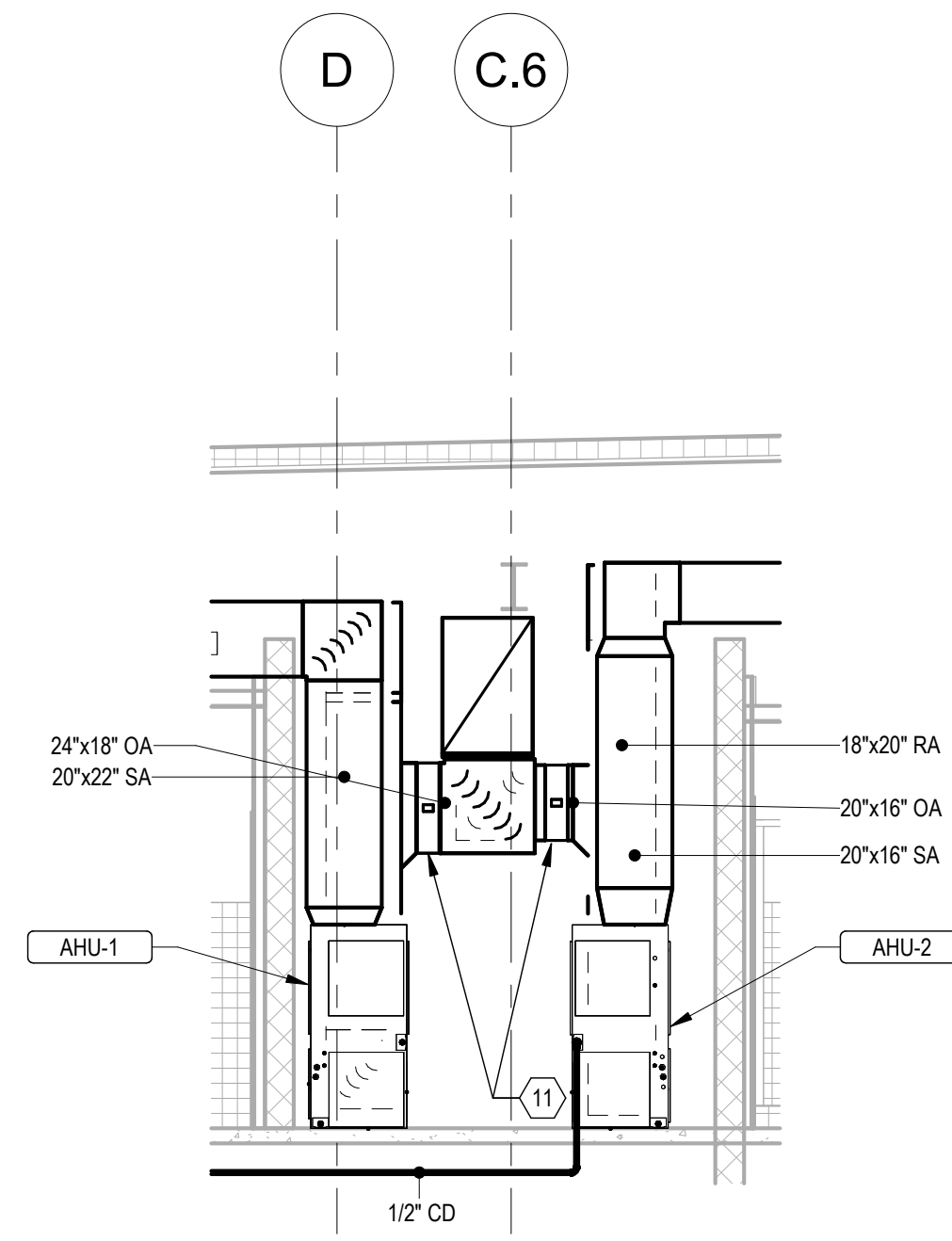
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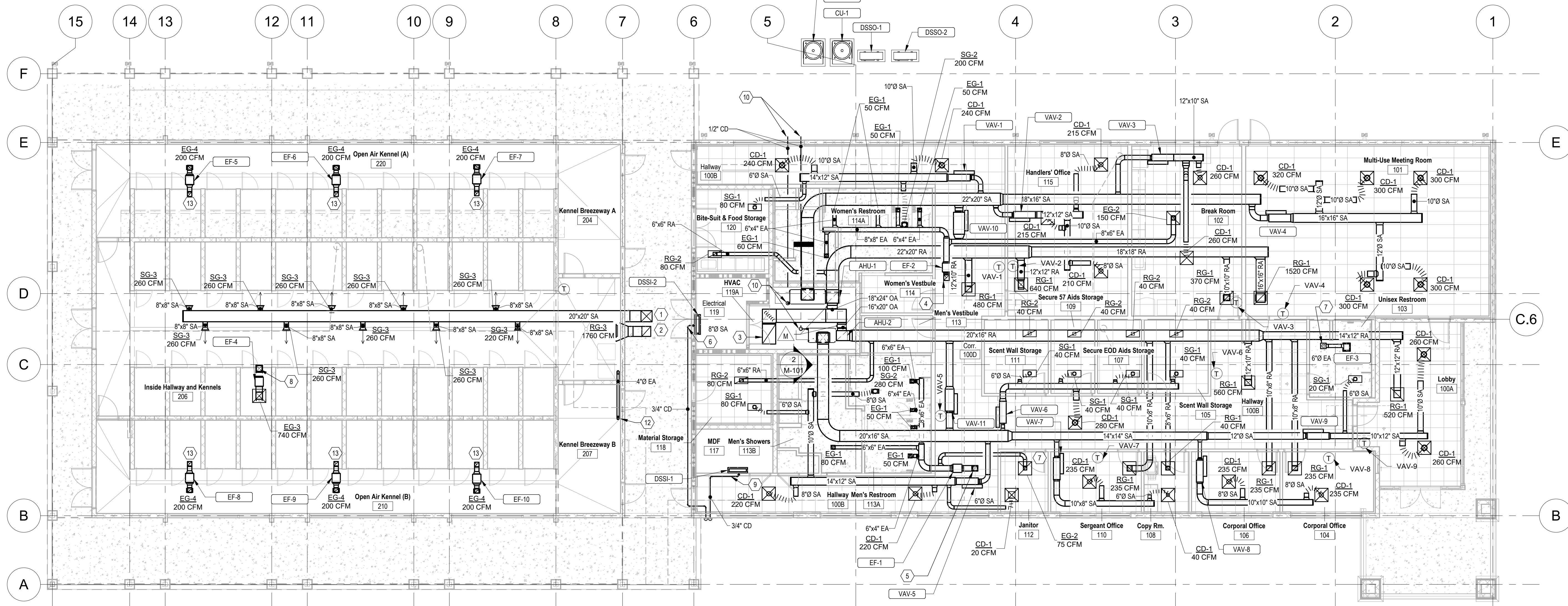
2 ENLARGED HVAC ROOM 202A SECTION VIEW
M-101 1/4" = 1'-0"

GENERAL NOTES

- A. COORDINATE DIFFUSERS WITH LIGHTING, ARCHITECTURAL AND OTHER TRADES.
- B. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT NECESSARILY SHOW ALL ELBOWS, OFFSETS, UNIONS, VALVES AND FITTINGS REQUIRED TO COMPLETE INSTALLATION.
- C. CONTRACTOR SHALL MAKE DUCT ROUTING ADJUSTMENTS AS NECESSARY TO MEET FIELD CONDITIONS.
- D. ROOF INTAKE HOOD SHALL BE LOCATED 18'-0" AWAY FROM ALL EXHAUST AND PLUMBING VENTS. COORDINATE SIZES WITH PLUMBING CONTRACTOR.
- E. CONTRACTOR SHALL REPLACE FILTERS ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO FINAL PUNCH.
- F. ROUTE REFRIGERANT LINESETS IN MOST DIRECT ROUTE FOR SPLIT SYSTEMS. COORDINATE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

KEYNOTES

- 1. 20"x20" SUPPLY DUCT UP TO RTU-1 ON ROOF.
- 2. 18"x16" RETURN DUCT UP TO RTU-1 ON ROOF.
- 3. 24"x36" OUTSIDE AIR DUCT UP TO RH-1. SEE DETAIL FOR ADDITIONAL INFORMATION.
- 4. 10"x10" EXHAUST AIR DUCT UP TO ROOF. TERMINATE WITH ROOF CAP. SEE DETAIL FOR ADDITIONAL INFORMATION.
- 5. 10"x10" EXHAUST AIR DUCT UP TO ROOF. TERMINATE WITH ROOF CAP. SEE DETAIL FOR ADDITIONAL INFORMATION.
- 6. ROUTE CONDENSATE PIPING FROM DSSI-2 ABOVE CEILING IN BREEZEWAY TO EAST WALL. TERMINATE 6" ABOVE GRADE WITH SPLASH BLOCK.
- 7. 6" DIAMETER UP TO ROOF. TERMINATE WITH ROOF CAP. SEE DETAIL FOR ADDITIONAL INFORMATION.
- 8. 12"x12" EXHAUST AIR DUCT UP TO ROOF. TERMINATE WITH ROOF CAP. SEE DETAIL FOR ADDITIONAL INFORMATION.
- 9. ROUTE CONDENSATE PIPING FROM DSSI-1 TO EAST WALL. TERMINATE 6" ABOVE GRADE WITH SPLASH BLOCK.
- 10. ROUTE CONDENSATE PIPING FROM AHU-1 & 2 DOWN UNDER SLAB. TERMINATE IN AREA WELL ON EAST SIDE OF BUILDING. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS.
- 11. CONTRACTOR SHALL INSTALL A MOTORIZED OUTSIDE AIR DAMPER FOR EACH AHU. RUSKIN "CD504" DAMPER SHALL BE MODULATED PER 24V ACTUATOR MECHANICAL WIRED. DAMPER SHALL SHUT UPON UNIT SHUTDOWN.
- 12. 4" DRYER EXHAUST DUCT TO ROOF.
- 13. 8"x8" EXHAUST AIR DUCT UP TO ROOF. TERMINATE WITH ROOF CAP. SEE DETAIL FOR ADDITIONAL INFORMATION.



1 MECHANICAL FLOOR PLAN
1/8" = 1'-0"

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1	PERMIT SET ADDENDUM #2	08/02/2024

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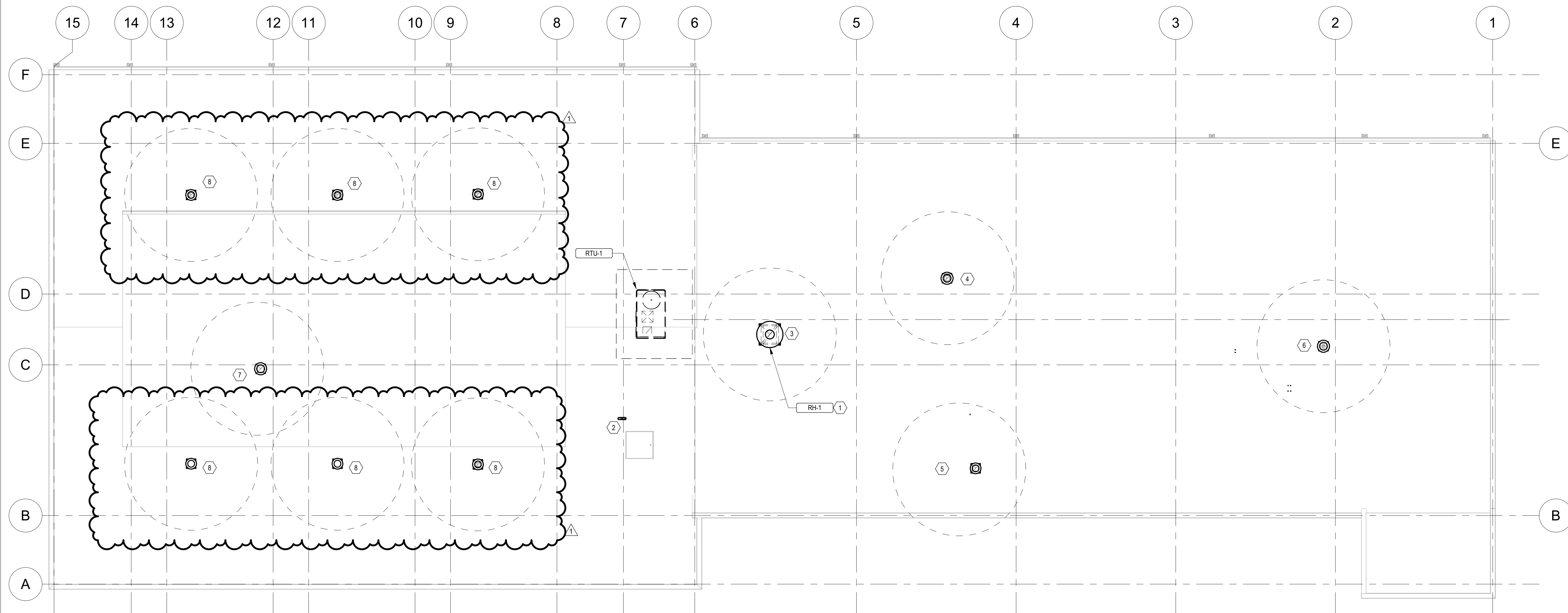


GENERAL NOTES

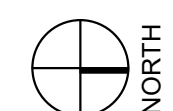
- A. COORDINATE DIFFUSERS WITH LIGHTING, ARCHITECTURAL AND OTHER TRADES.
- B. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT NECESSARILY SHOW ALL ELBOWS, OFFSETS, UNIONS, VALVES AND FITTINGS REQUIRED TO COMPLETE INSTALLATION.
- C. CONTRACTOR SHALL MAKE DUCT ROUTING ADJUSTMENTS AS NECESSARY TO MEET FIELD CONDITIONS.
- D. ROOF INTAKE HOOD SHALL BE LOCATED 10'-0" AWAY FROM ALL EXHAUST AND PLUMBING VENTS. COORDINATE SIZES WITH PLUMBING CONTRACTOR.
- E. CONTRACTOR SHALL REPLACE FILTERS ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO FINAL PUNCH.
- F. ROUTE REFRIGERANT LINES IN MOST DIRECT ROUTE FOR SPLIT SYSTEMS. COORDINATE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

KEYNOTES

- 1. PROVIDE ROOF HOOD WITH INTEGRAL MOTORIZED DAMPER. COORDINATE WITH ELECTRICAL CONTRACTOR.
- 2. TERMINATE 4" DRYER EXHAUST DUCT THROUGH ROOF. PROVIDE GOOSE NECK PER DETAIL.
- 3. 24"X36" OUTSIDE AIR DUCT DOWN TO MECHANICAL ROOM. SEE DETAIL FOR ADDITIONAL INFORMATION.
- 4. 10"X10" EXHAUST AIR DUCT DOWN FROM EF-2.
- 5. 10"X10" EXHAUST AIR DUCT DOWN FROM EF-1.
- 6. 6" DIAMETER EXHAUST AIR DUCT DOWN TO EF-3.
- 7. 6" DIAMETER EXHAUST AIR DUCT DOWN FROM EF-4.
- 8. EXHAUST AIR DUCT DOWN FROM ROOF CAP TO CORRESPONDING EF.



1 MECHANICAL ROOF PLAN
1/8" = 1'-0"



#	ISSUED FOR	DATE
1	PERMIT SET	01/11/2024
	ADDENDUM #2	08/02/2024

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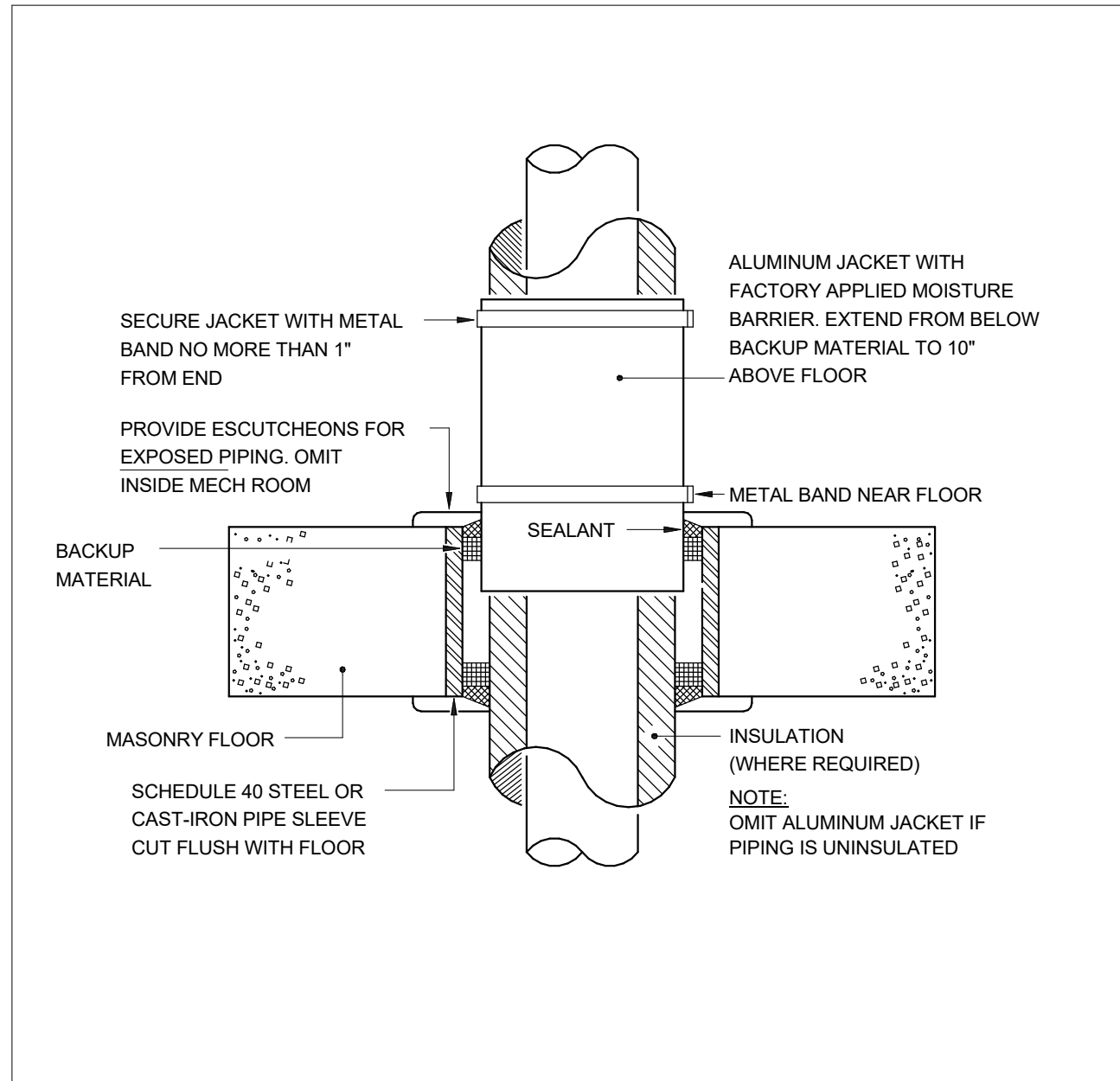
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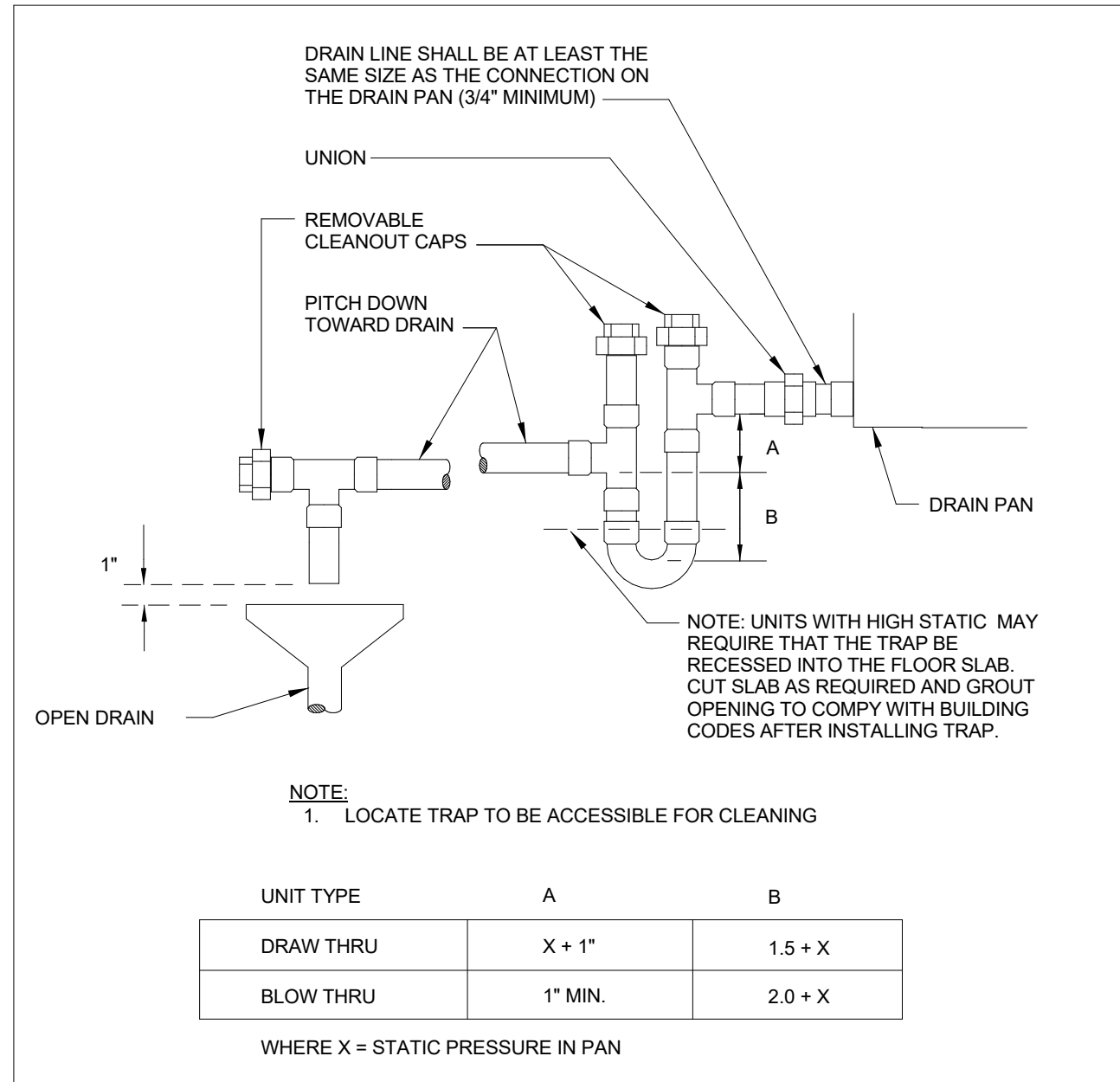
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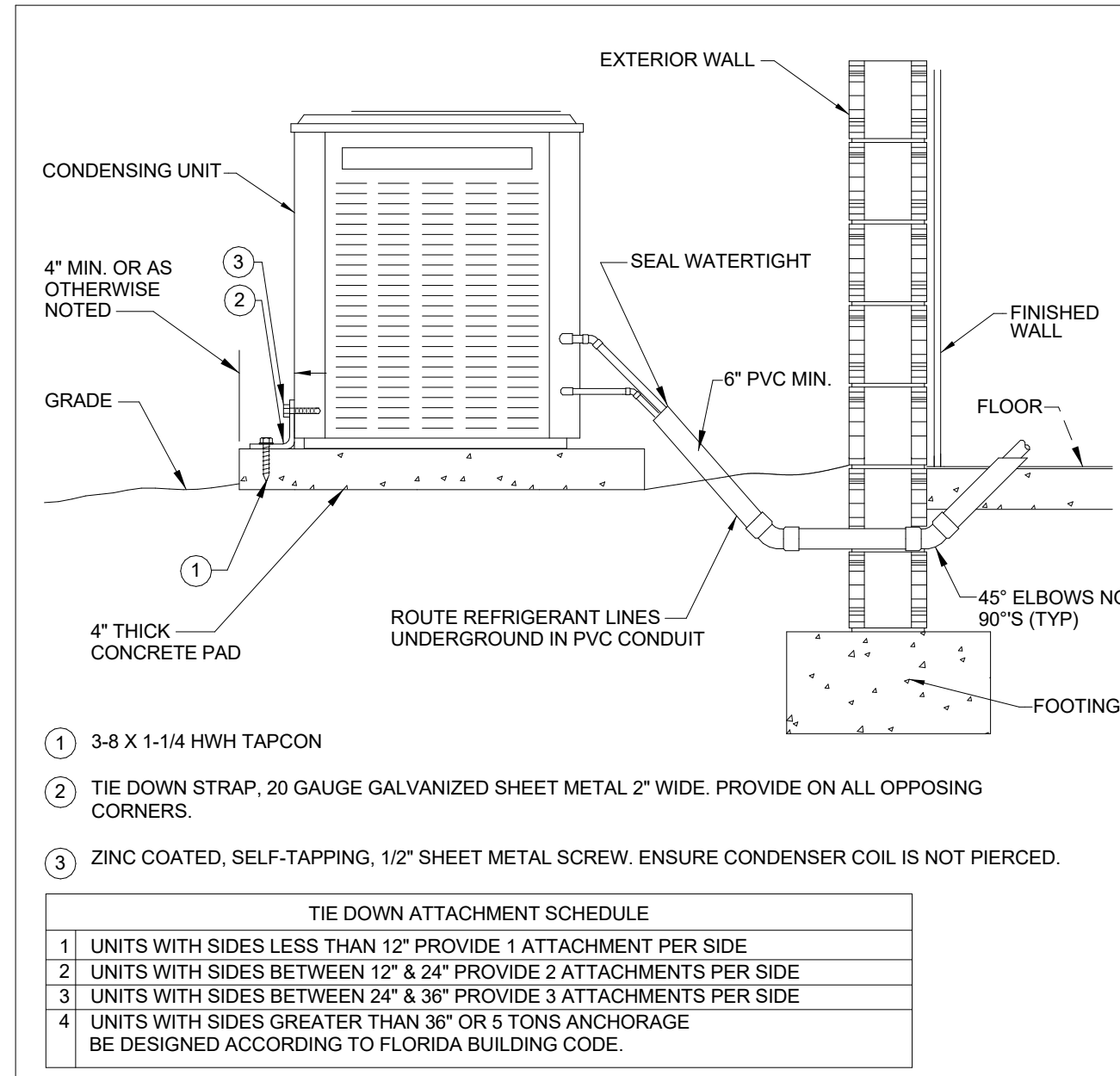
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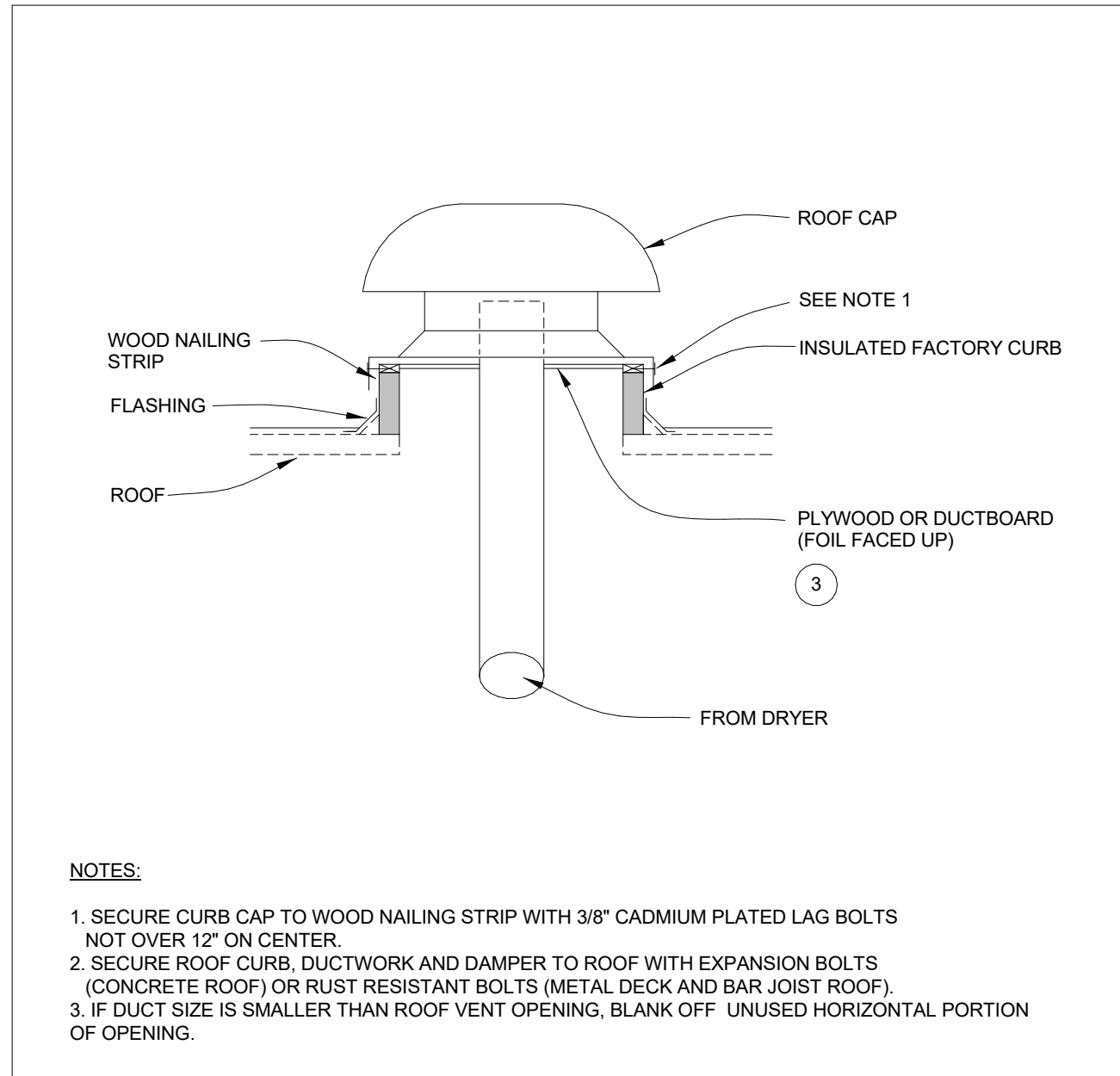
10 FLOOR PIPE PENETRATION DETAIL N.T.S.



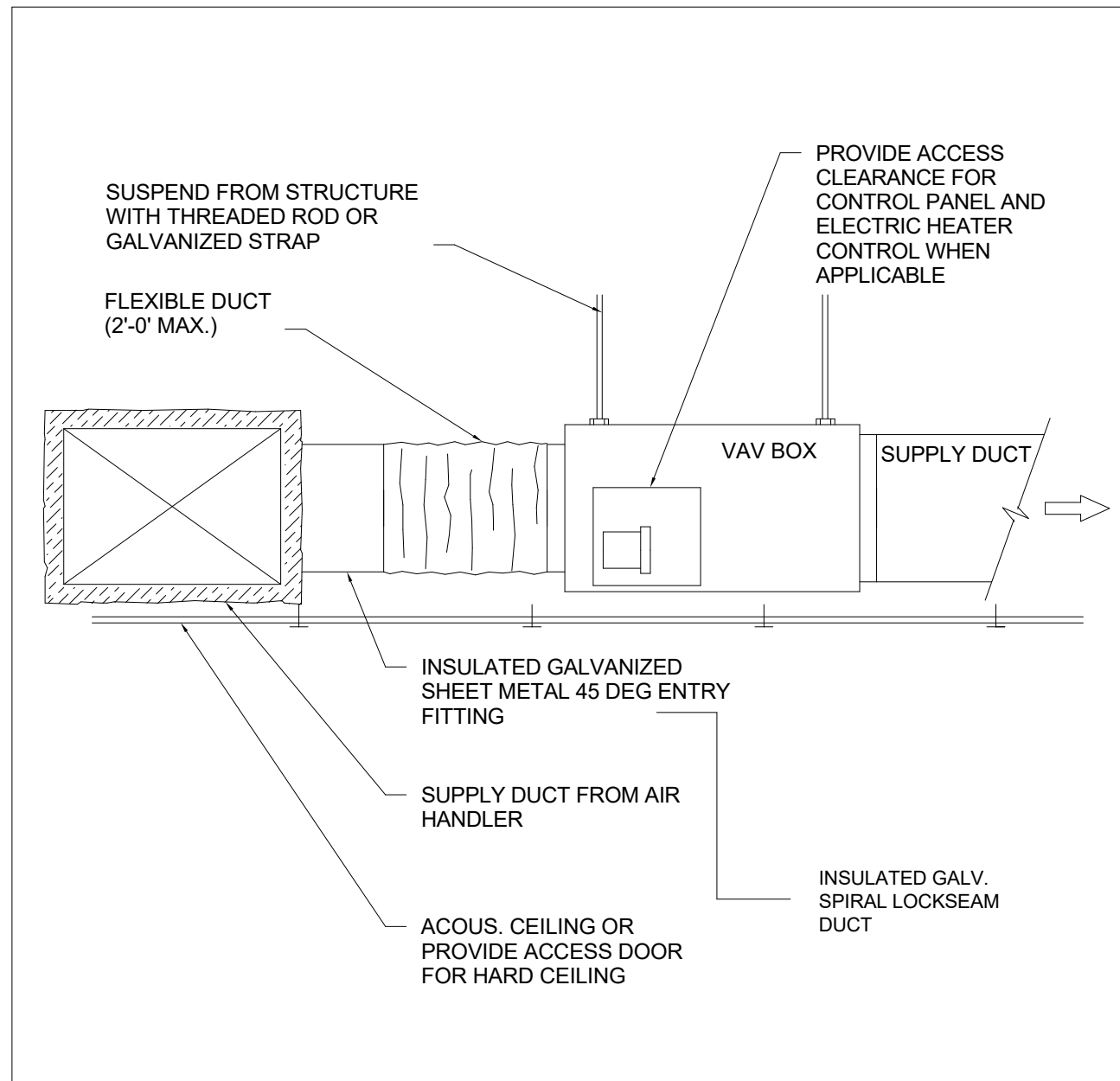
7 CONDENSATE DRAIN TRAP DETAIL N.T.S.



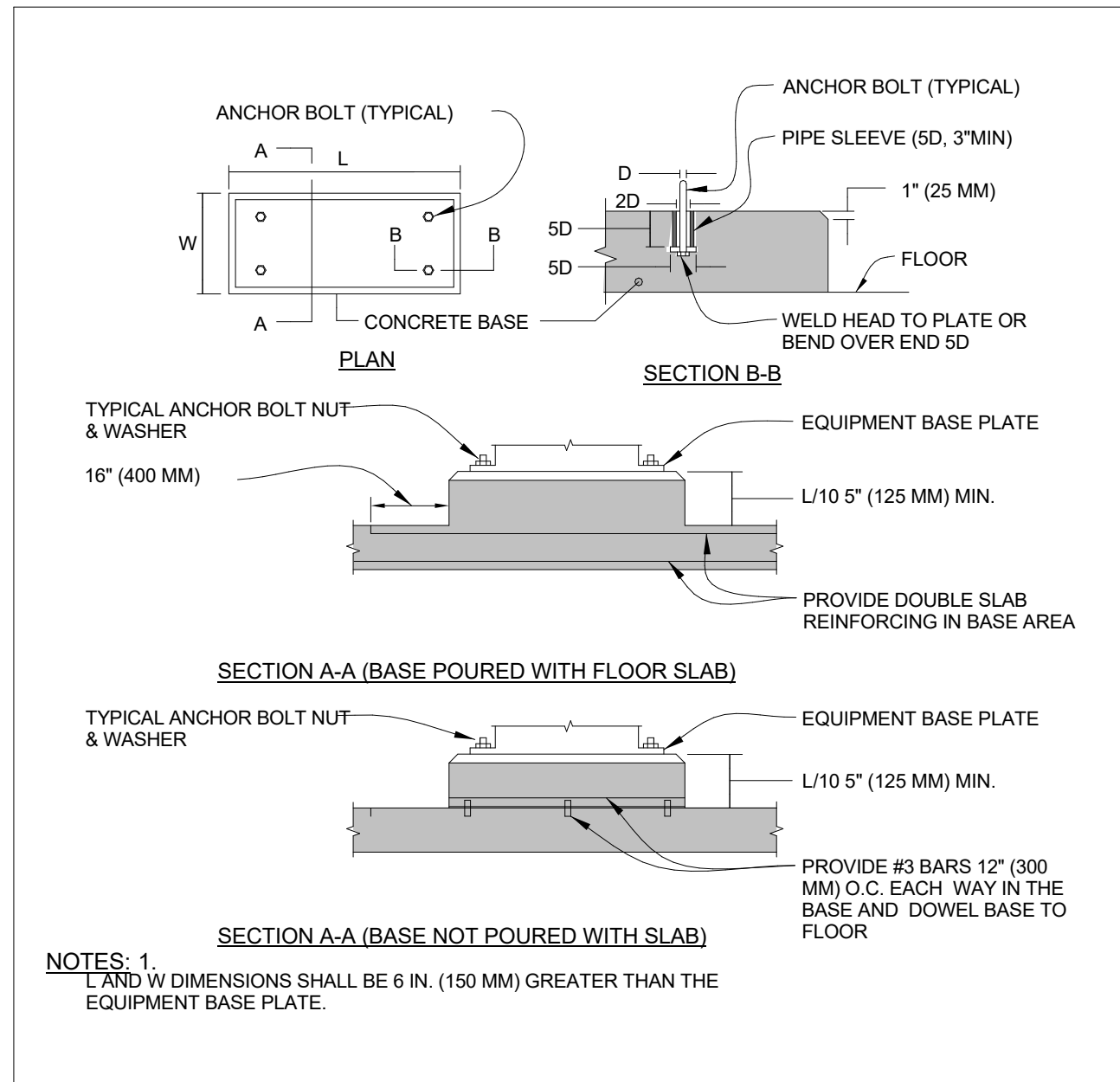
4 CONDENSING UNIT DETAIL N.T.S.



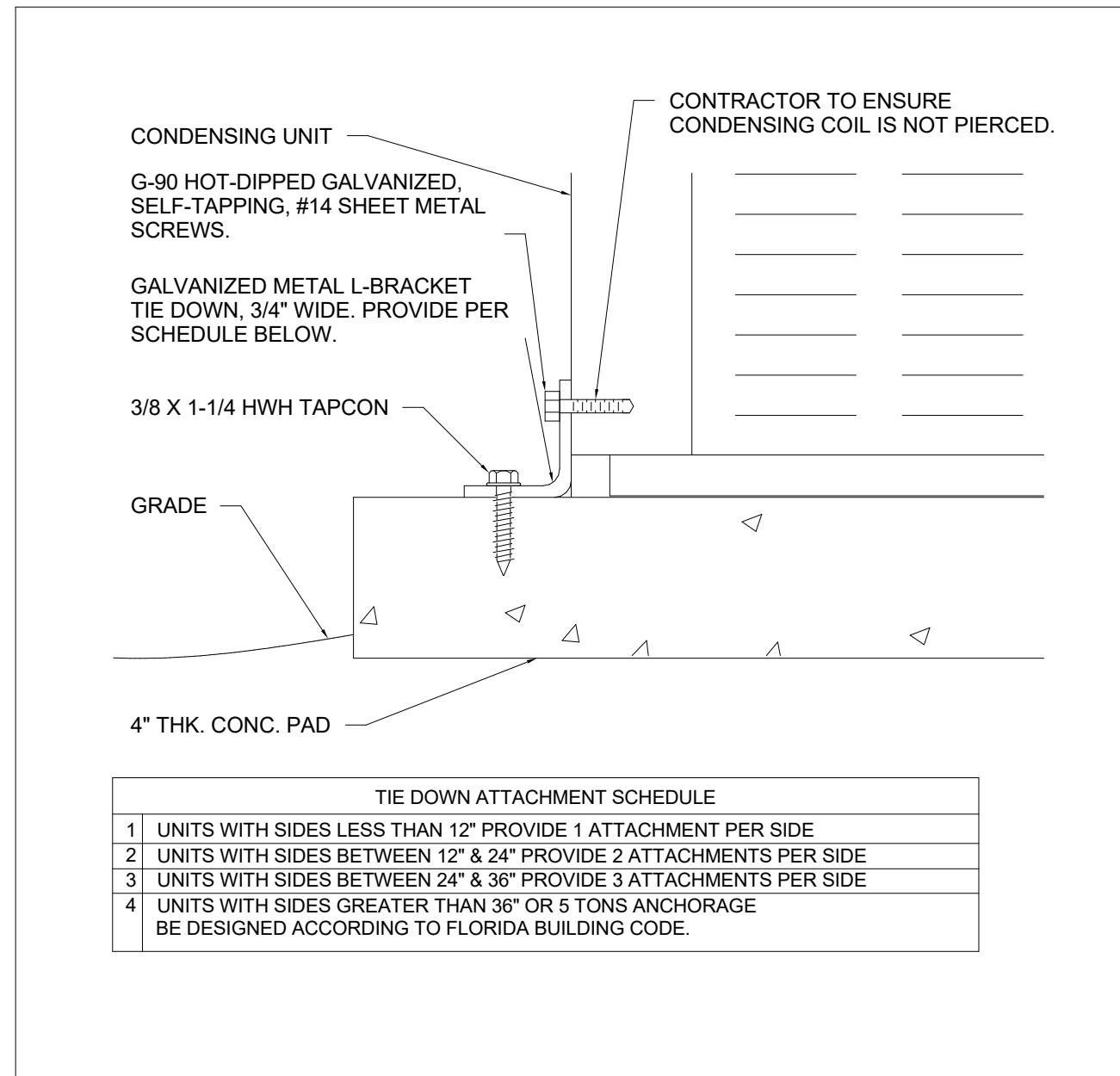
1 DRYER ROOF VENT DETAIL N.T.S.



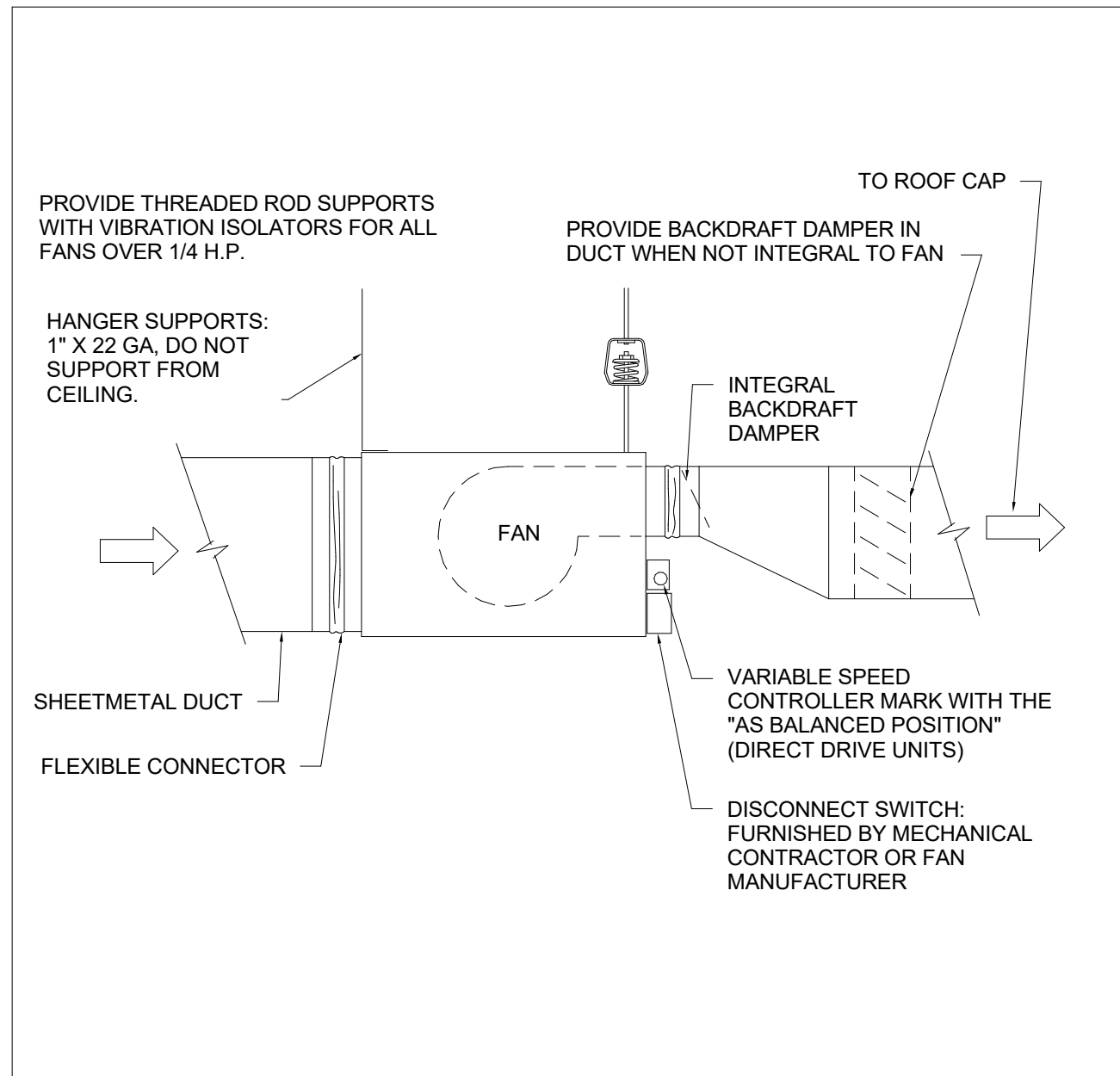
11 VAV BOX DETAIL N.T.S.



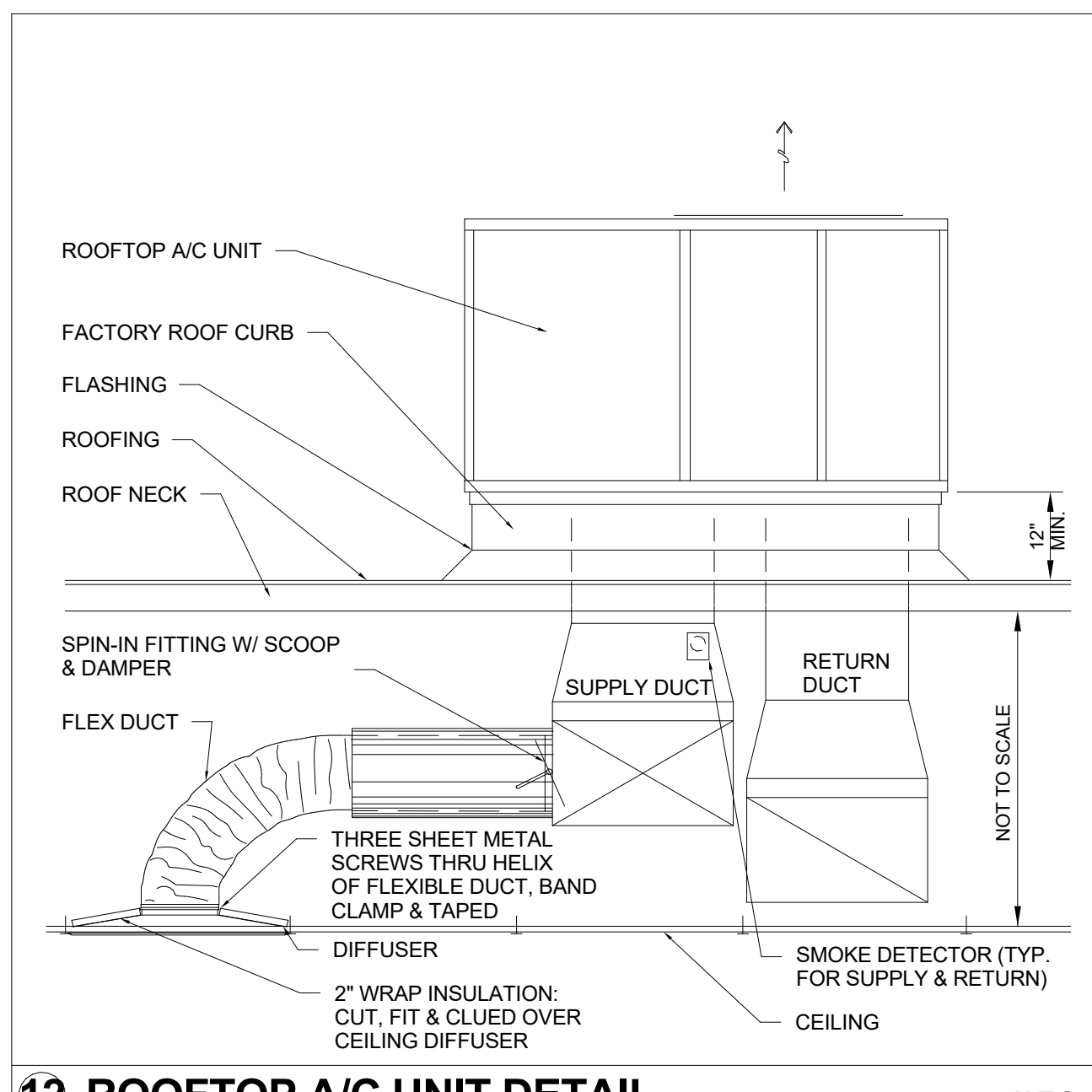
8 CONCRETE EQUIPMENT BASES N.T.S.



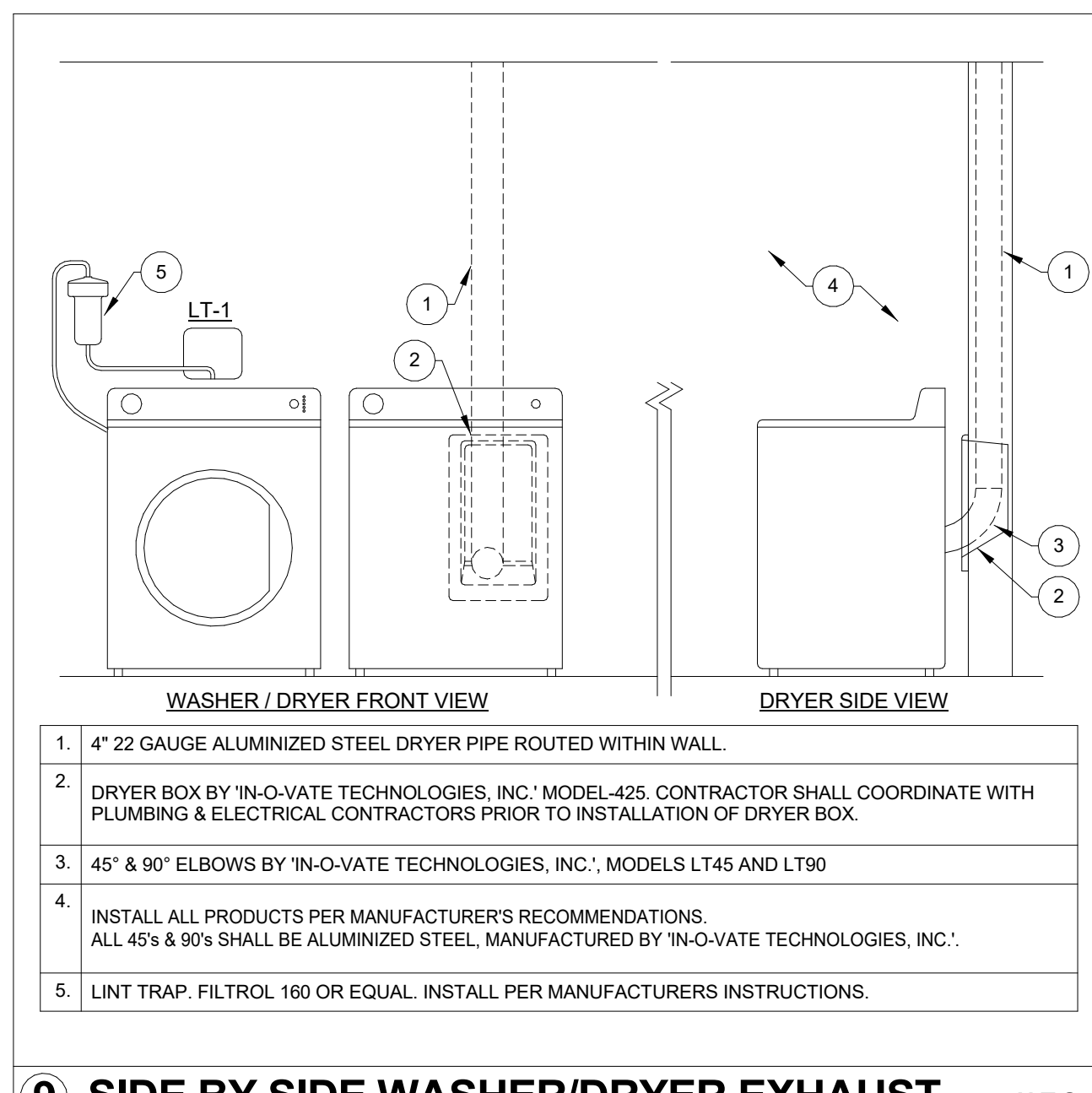
5 CONDENSING UNIT ANCHORAGE DETAIL N.T.S.



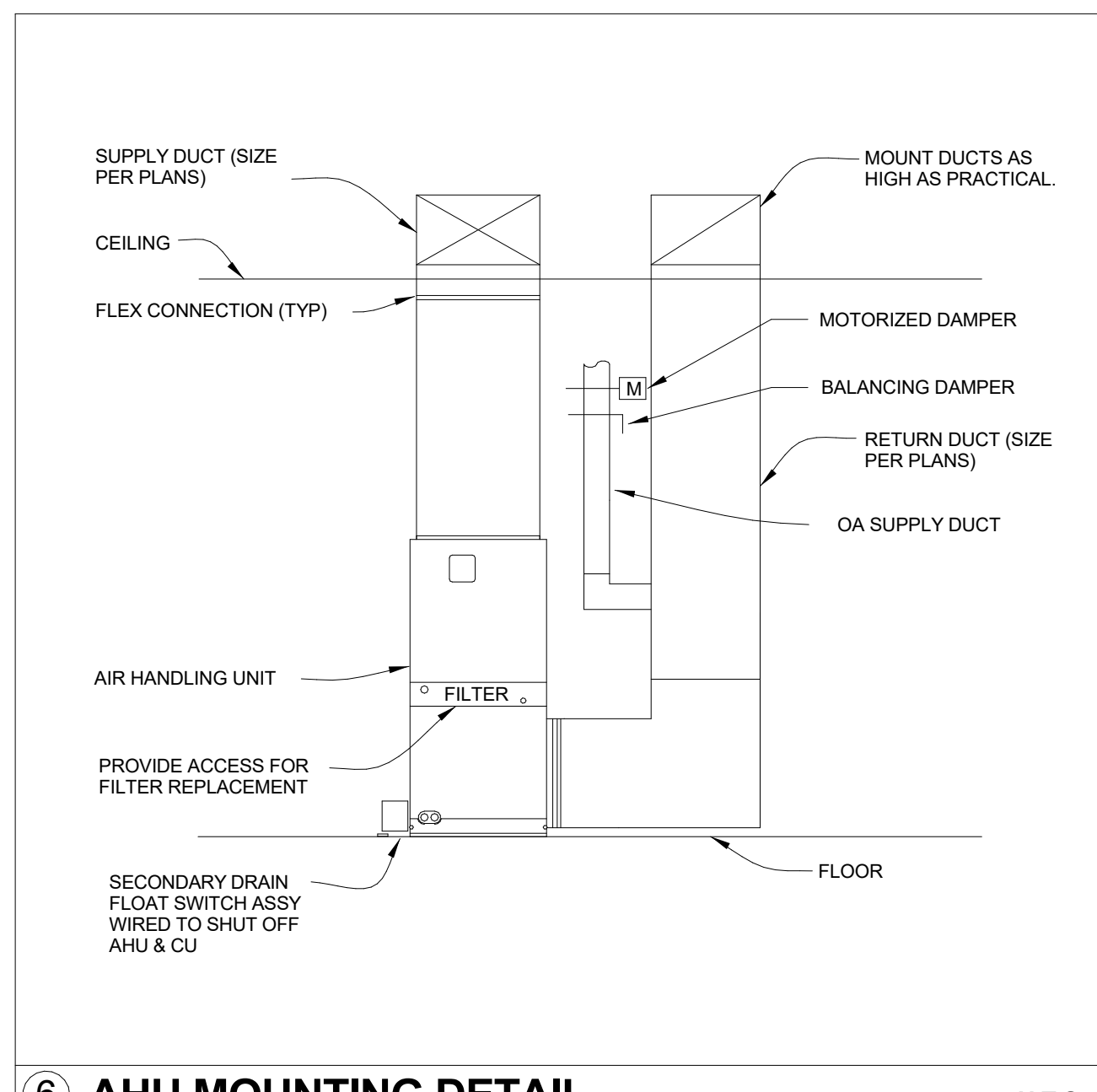
2 INLINE FAN DETAIL N.T.S.



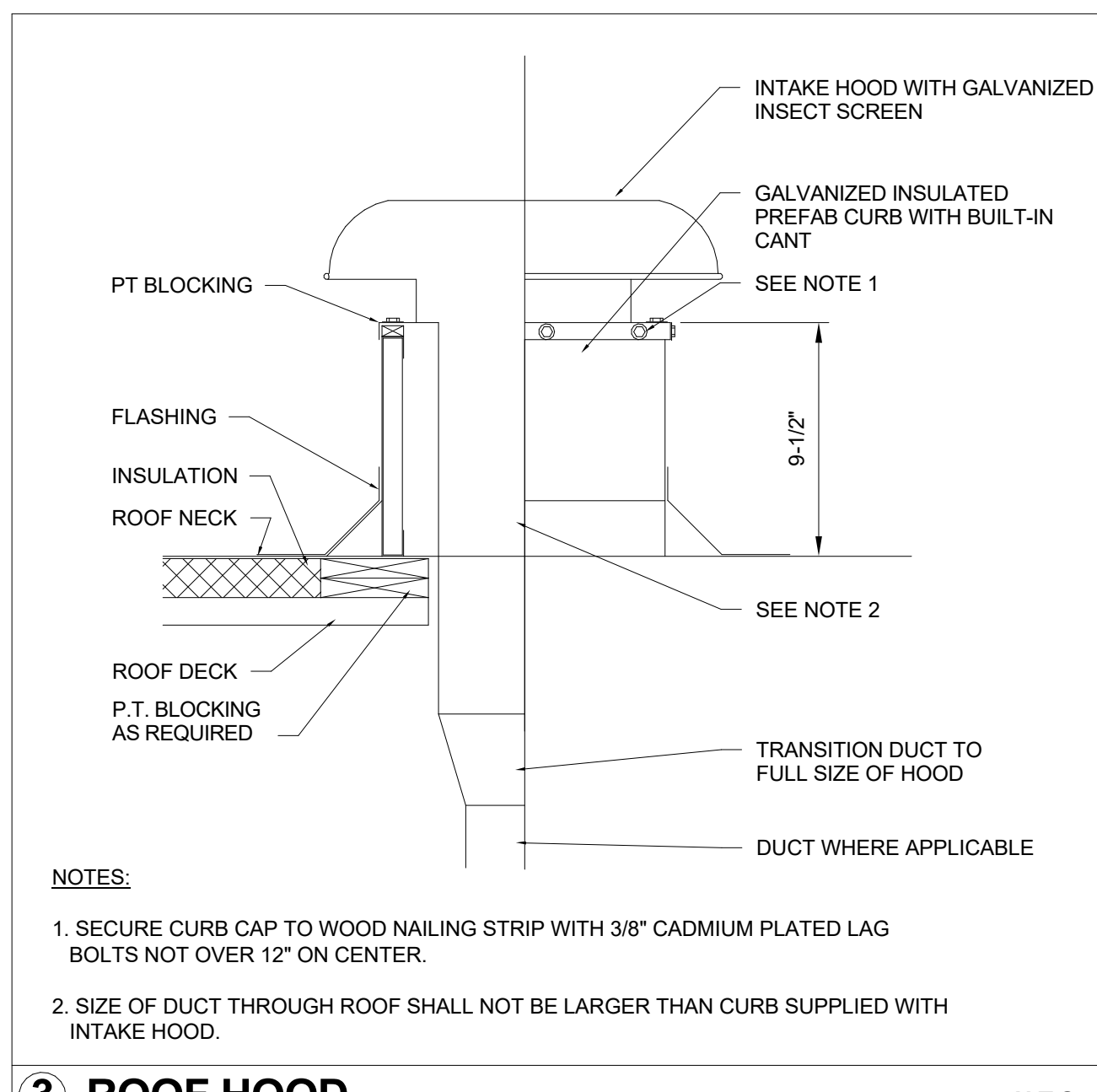
12 ROOFTOP A/C UNIT DETAIL N.T.S.



9 SIDE BY SIDE WASHER/DRYER EXHAUST N.T.S.



6 AHU MOUNTING DETAIL N.T.S.



3 ROOF HOOD N.T.S.

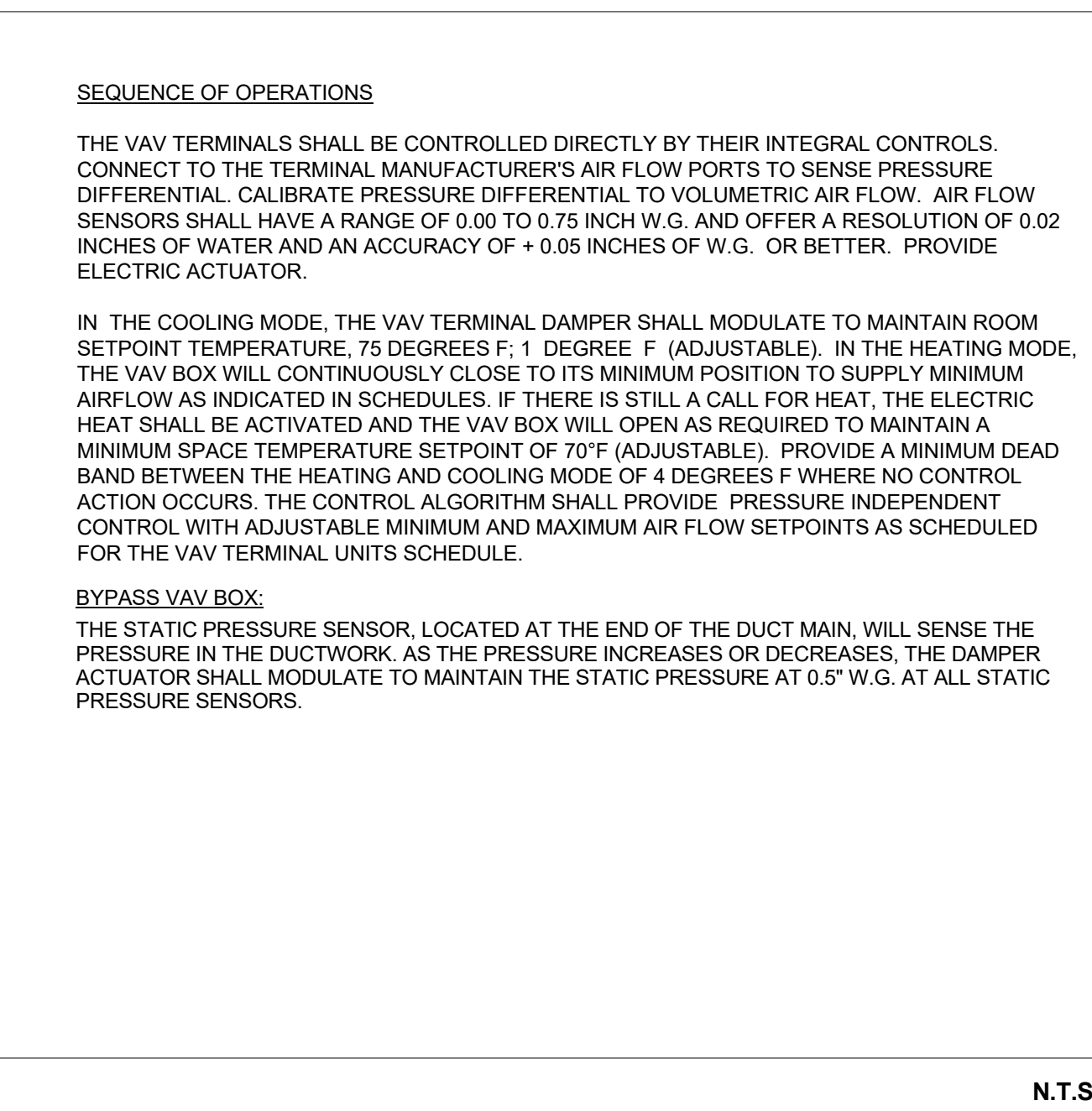
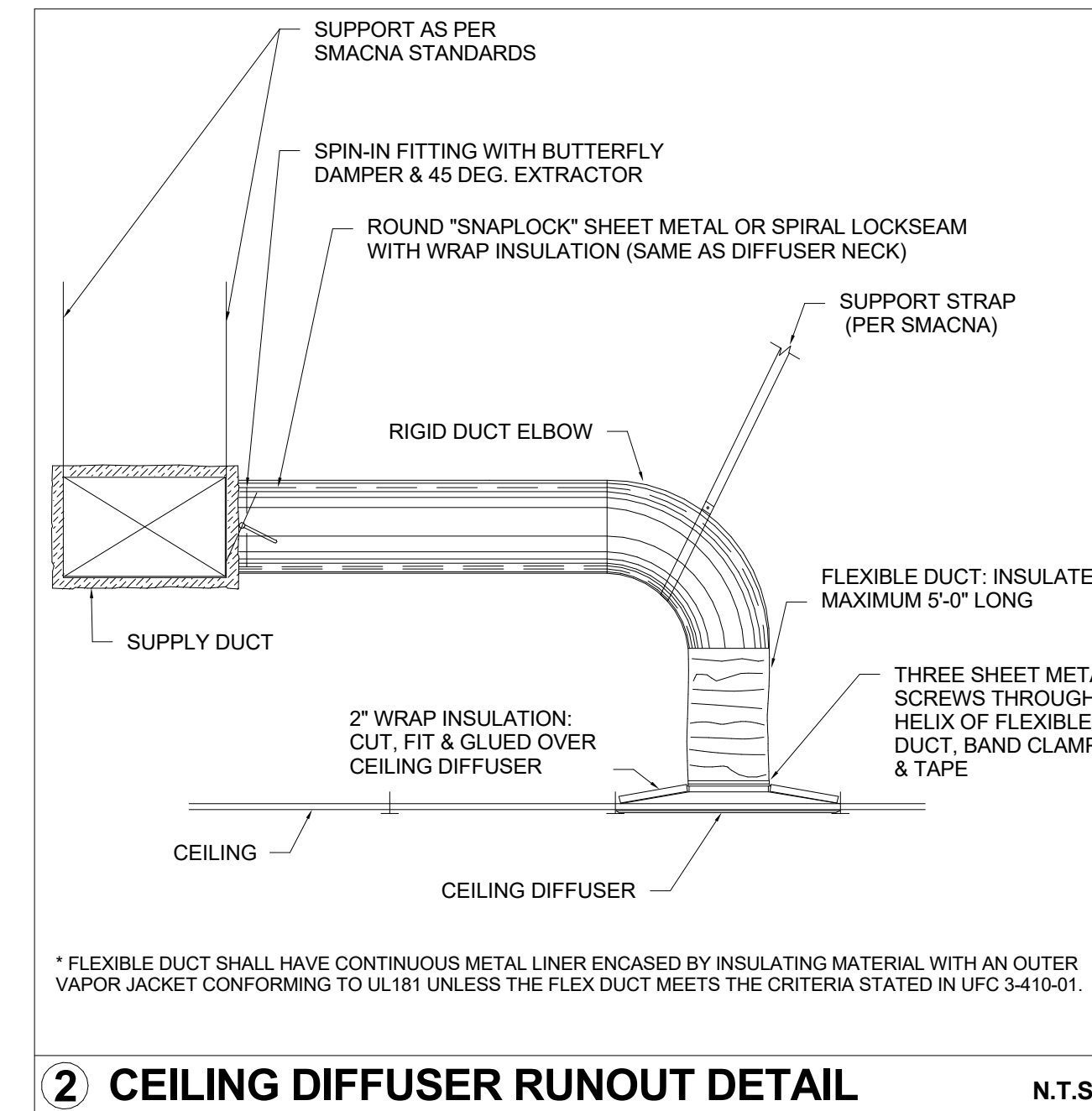
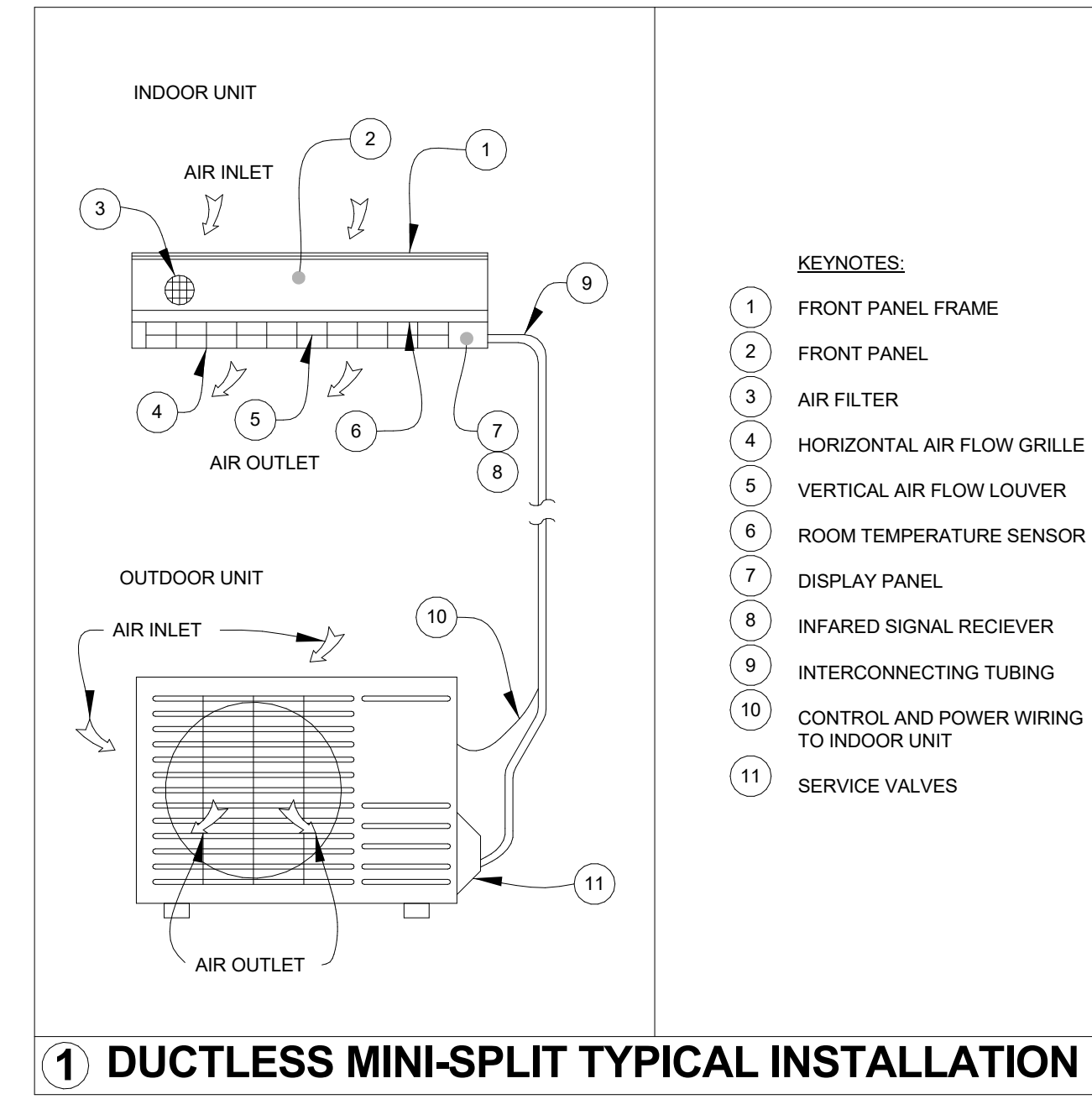
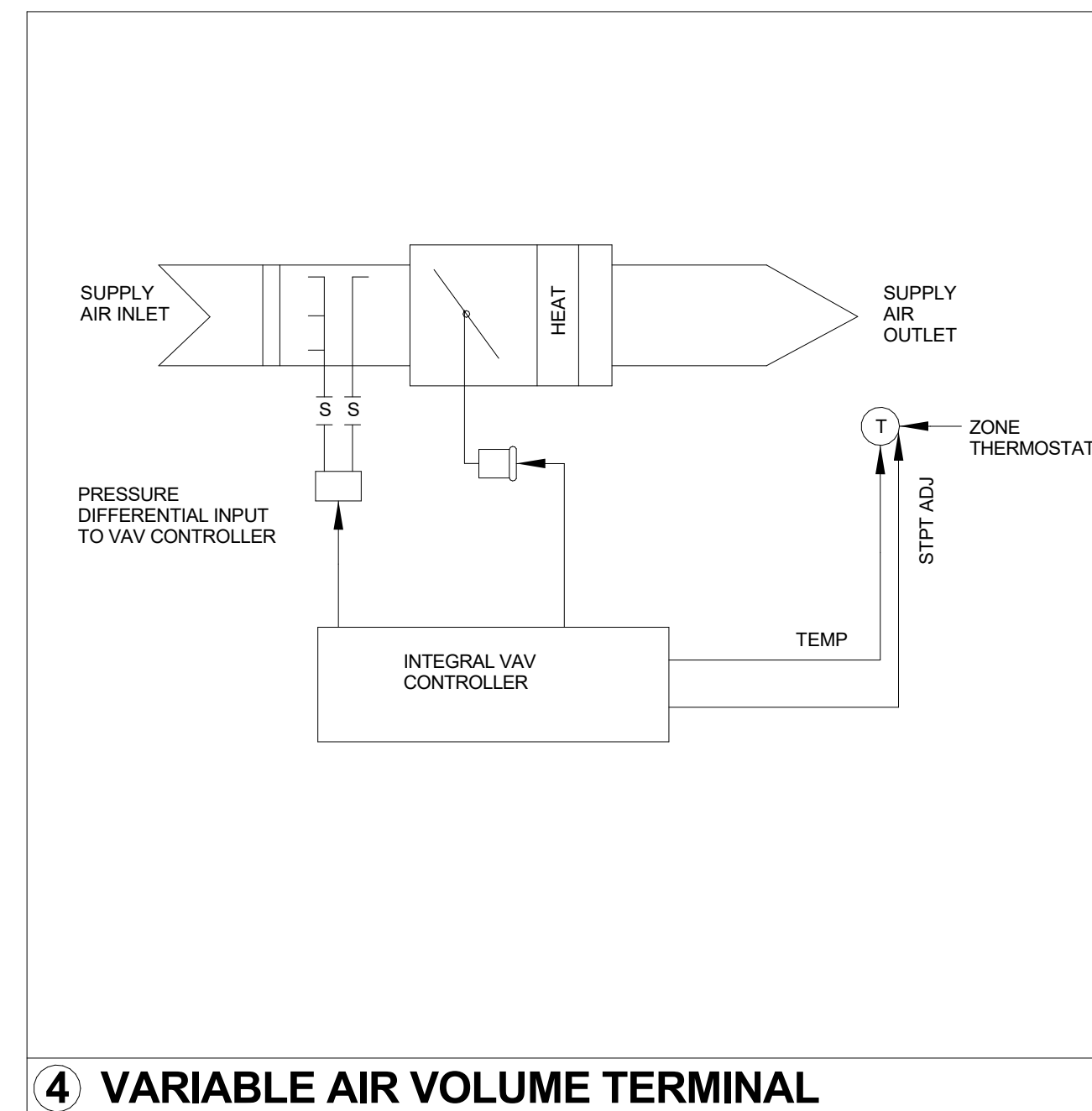
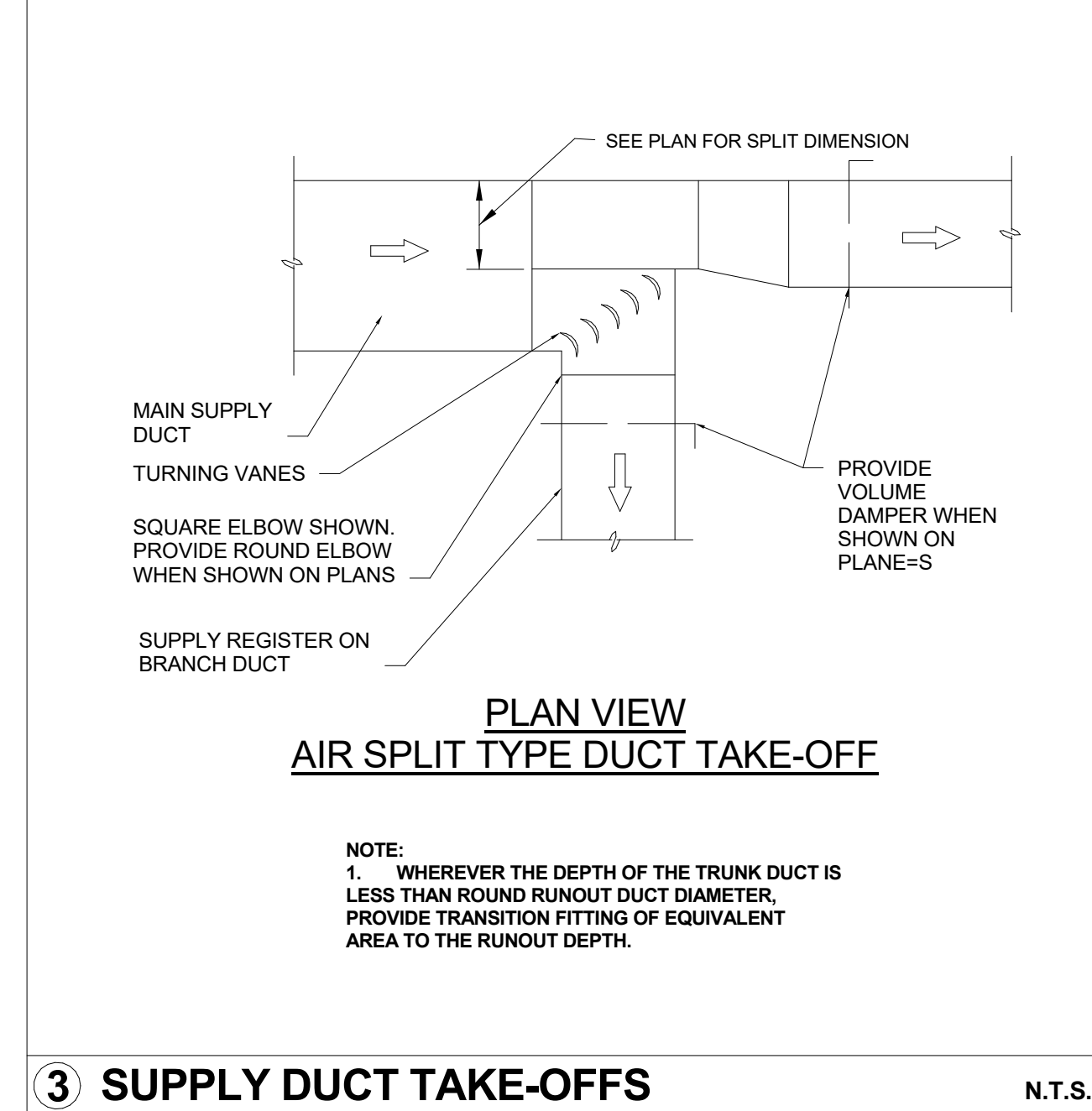
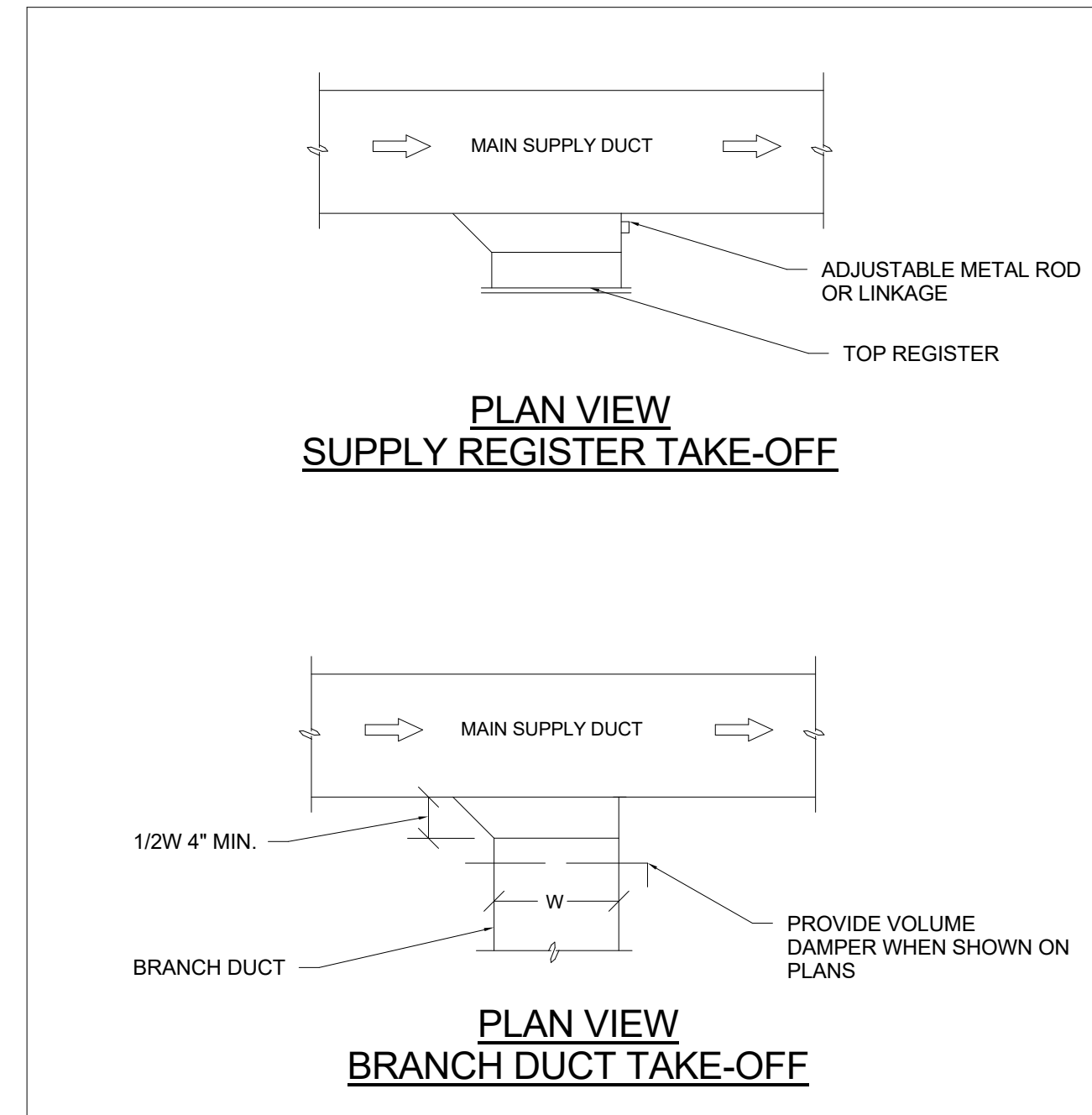
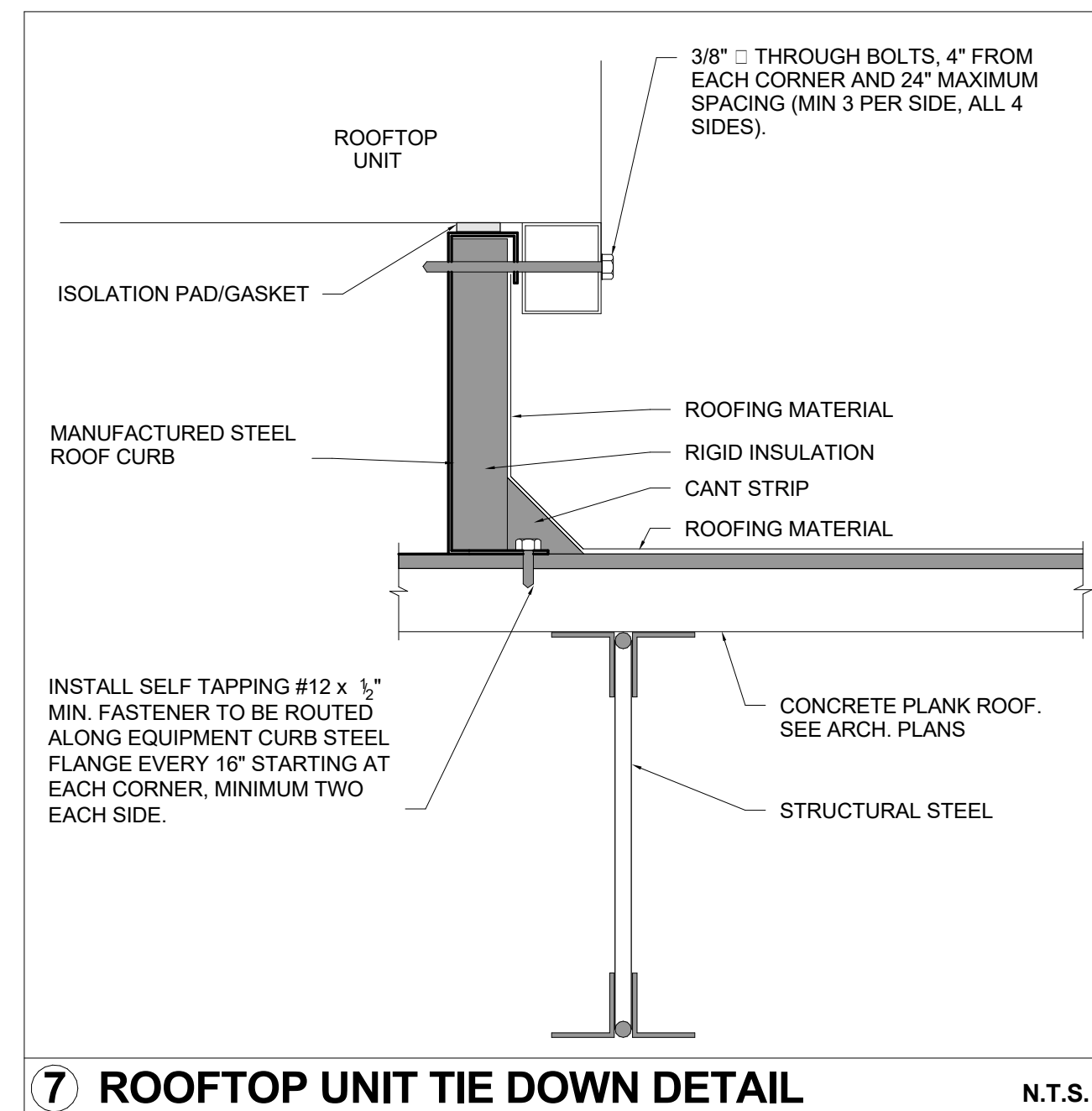
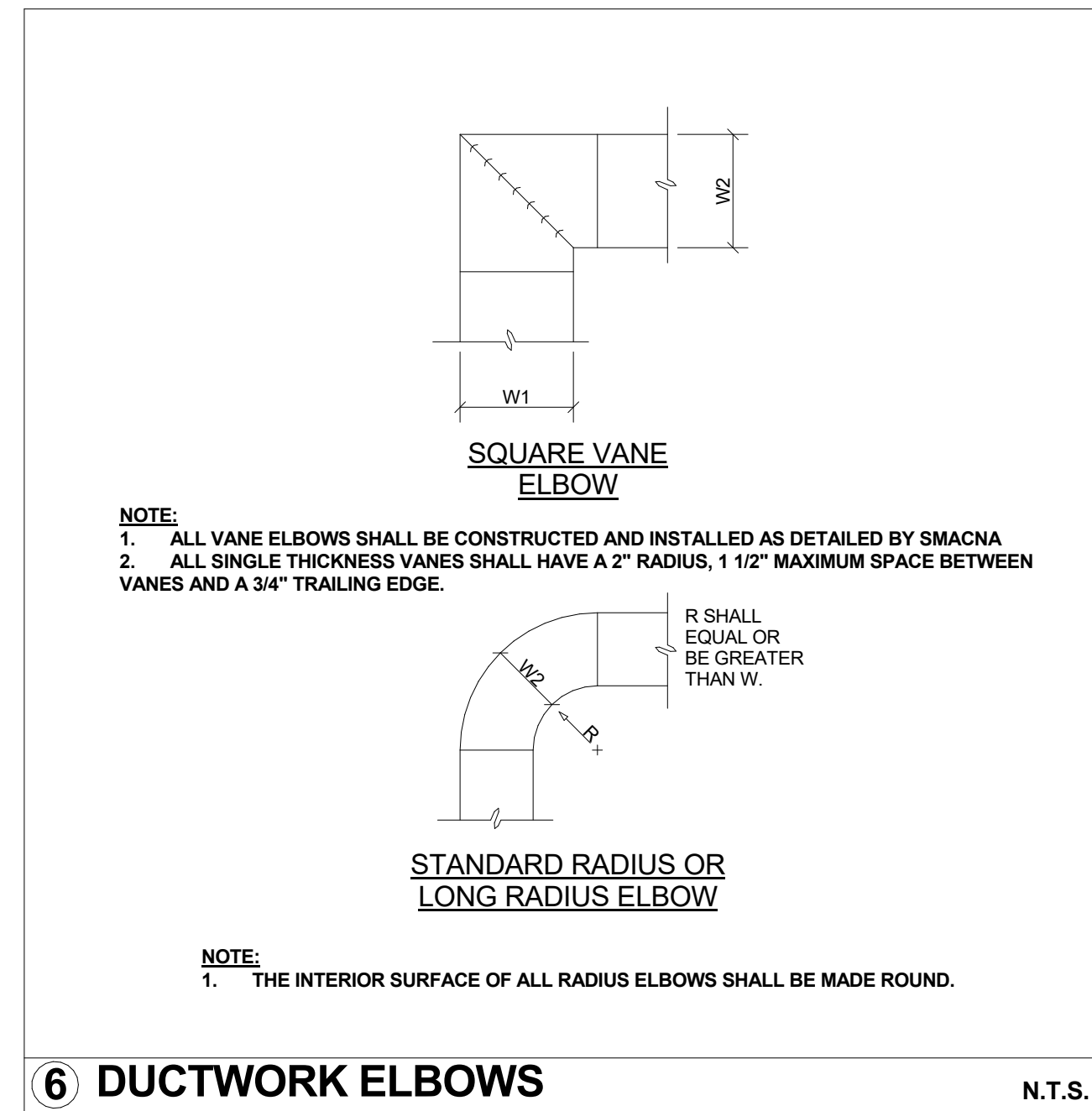
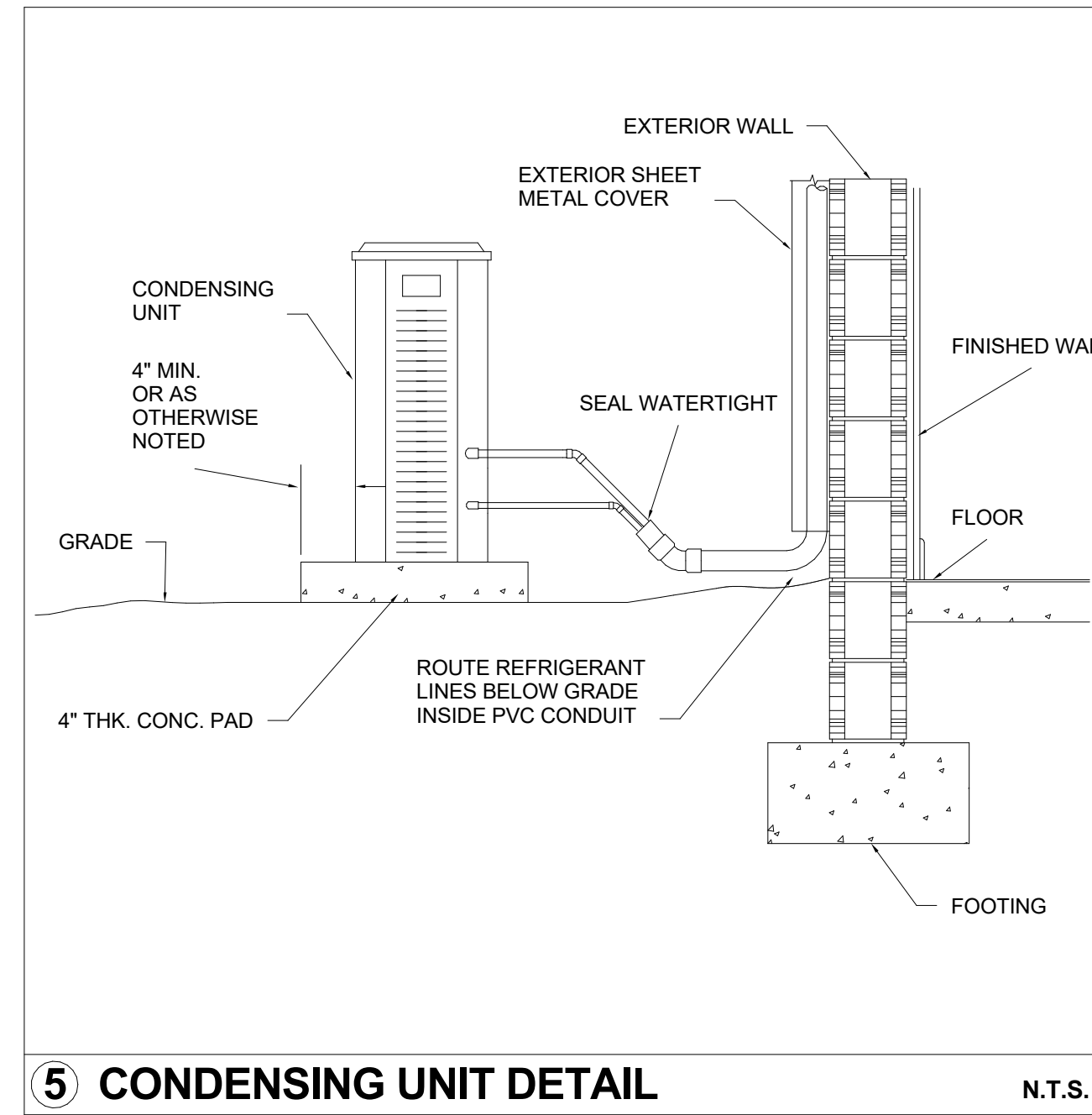
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ROOF TOP UNIT SCHEDULE

MARK	AREA SERVED	MANUFACTURER	NOMINAL TONNAGE	MODEL #	AIR HANDLER					CONDENSING UNIT		POWER			DIMENSIONS				NOTES					
					EAT DB/WB	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	HEATER		SUPPLY CFM	OA CFM	ESP	HP	VOLTS/Ø	OUTDOOR TEMPERATURE	EER	MCA	MOCP		VOLTS/Ø	LENGTH (FT)	WIDTH (FT)	HEIGHT (FT)	WEIGHT LBS.
								KW/STEPS	VOLTS/Ø															
RTU-1	SEE PLANS	TRANE	8.5	TSJ102	82/67.5	102	74.5	15	208/3	2560	800	1	3	208/3	95	11.2	60	60	208/3	7.34	4.44	4.24	995.7	1 - 10

* DESIGN CONDITIONS: OUTDOOR: SUMMER-95°F/77°F WINTER-40°F INDOOR: 75°F/50% RH

NOTES:
 1 PROVIDE WITH FACTORY MOUNTED DISCONNECT
 2 PROVIDE WITH DIGITAL 7-DAY, 24 HOUR PROGRAMMABLE THERMOSTAT/CONTROLLER WITH THE APPROPRIATE NUMBER OF COOLING AND HEATING STAGES.
 3 PROVIDE ALL REQUIRED INTERFACES, THERMOSTAT, SUB-COMPONENTS, AND SENSORS FOR A COMPLETE INSTALLATION.
 4 PROVIDE WITH LOW AMBIENT KIT.
 5 CONDENSING UNIT COIL SHALL BE HERESITE COATED.
 6 PROVIDE WITH SLOPED HURRICANE RATED ROOF CURB
 7 PROVIDE SYSTEM WITH FULLY MODULATING HOT GAS REHEAT, PROGRAMMABLE HUMIDISTAT/THERMOSTAT. REHEAT CAPACITY 53 MBH. EAT/LAT 52°F/62°F. UPON SENSING SPACE HUMIDITY IS 60% RH OR GREATER, THE THERMOSTAT SHALL ENGAGE HOT GAS REHEAT.
 8 PROVIDE 2 POSITION 24 V MOTORIZED OUTSIDE AIR DAMPER WITH ALL REQUIRED ACCESSORIES, THIS INCLUDES BUT IS NOT LIMITED TO CONTROL RELAYS, DISCONNECTS, AND ETC.
 9 PROVIDE WITH MODULATING HOT...
 10 PROVIDE WITH PLEATED FILTERS, 30% MINIMUM EFF. (REPLACE WITH NEW AND SPARE FILTERS AT PROJECT COMPLETION).
 11 PROVIDE WITH SUPPLY AIR DUCT SMOKE DETECTOR

SPLIT SYSTEM AIR CONDITIONING SCHEDULE

MARK	AREA SERVED	MANUFACTURER	MODEL #	AIR HANDLER					CONDENSING UNIT		POWER			REMARKS					
				EAT DB/WB	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	HEATER		SUPPLY CFM	OA CFM	ESP	HP	VOLTS/Ø		OUTDOOR TEMPERATURE	EER	MCA	MOCP	VOLTS/Ø
							KW/STEPS	VOLTS/Ø											
AHU-1	SEE PLANS	TRANE	TWE120	76.3/64.4	110.6	75.8	-	-	3440	650	1.2	-	208/3	-	14.8	8	15	208/3	1 - 10
CU-1	SEE PLANS	TRANE	TTA120	-	-	-	-	-	2525	315	-	-	208/3	-	11.2	8	15	208/3	1 - 10
AHU-2	SEE PLANS	TRANE	TWE072	75.4/62.3	66.4	54.5	-	-	-	-	1.2	-	208/3	-	11.2	8	15	208/3	1 - 10
CU-2	SEE PLANS	TRANE	TTa072	-	-	-	-	-	-	-	-	-	208/3	-	11.2	8	15	208/3	1 - 10

* DESIGN CONDITIONS: OUTDOOR: SUMMER-92°F/77°F WINTER-40°F INDOOR: 75°F/50% RH

NOTES:
 1 DISCONNECT PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
 2 PROVIDE WITH DIGITAL 7-DAY, 24 HOUR PROGRAMMABLE THERMOSTAT/CONTROLLER WITH THE APPROPRIATE NUMBER OF COOLING AND HEATING STAGES.
 3 PROVIDE ALL REQUIRED INTERFACES, THERMOSTAT, SUB-COMPONENTS, AND SENSORS FOR A COMPLETE INSTALLATION.
 4 PROVIDE WITH LOW AMBIENT KIT.
 5 CONDENSING UNIT COIL SHALL BE HERESITE COATED.
 6 PROVIDE CONDENSER COIL GUARD
 7 PROVIDE 2 POSITION 24 V MOTORIZED OUTSIDE AIR DAMPER WITH ALL REQUIRED ACCESSORIES, THIS INCLUDES BUT IS NOT LIMITED TO CONTROL RELAYS, DISCONNECTS, AND ETC.
 8 PROVIDE WITH PLEATED FILTERS, 30% MINIMUM EFF. (REPLACE WITH NEW AND SPARE FILTERS AT PROJECT COMPLETION).
 9 PROVIDE LONG LINE KIT WITH ALL APPROPRIATE ACCESSORIES PER MANUFACTURER WHERE LINE EXCEEDS MANUFACTURER RECOMMENDED LENGTH.
 10 PROVIDE WITH SUPPLY AIR DUCT SMOKE DETECTOR

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL #	TYPE	CFM	ESP	HP (W)	VOLTS/Ø	FLA	BDD	DRIVE	REMARKS
EF-1	GREENHECK	G-100HP-VG	INLINE	405	0.3	1/10	115/1	1.38	YES	DIRECT	1, 2, 4, 6
EF-2	GREENHECK	G-100HP-VG	INLINE	410	0.3	1/10	115/1	1.38	YES	DIRECT	1, 2, 4, 5
EF-3	GREENHECK	SP-A390-VG	CEILING	70	0.2	14 W	115/1	1.5	YES	DIRECT	1, 3, 4, 6
EF-4	GREENHECK	G-120-VG	INLINE	740	0.3	1/2	115/1	6.4	YES	DIRECT	1, 2, 4, 7
EF-5	GREENHECK	G-90-VG	INLINE	200	0.2	1/10	115/1	1.38	YES	DIRECT	1, 2, 4, 7
EF-6	GREENHECK	G-90-VG	INLINE	200	0.2	1/10	115/1	1.38	YES	DIRECT	1, 2, 4, 7
EF-7	GREENHECK	G-90-VG	INLINE	200	0.2	1/10	115/1	1.38	YES	DIRECT	1, 2, 4, 7
EF-8	GREENHECK	G-90-VG	INLINE	200	0.2	1/10	115/1	1.38	YES	DIRECT	1, 2, 4, 7
EF-9	GREENHECK	G-90-VG	INLINE	200	0.2	1/10	115/1	1.38	YES	DIRECT	1, 2, 4, 7
EF-10	GREENHECK	G-90-VG	INLINE	200	0.2	1/10	115/1	1.38	YES	DIRECT	1, 2, 4, 7

NOTES:
 1 PROVIDE WITH SUSPENSION KIT, SHEAVES, AND SPEED CONTROLLER.
 2 PROVIDE FACTORY DISCONNECT SWITCH.
 3 PROVIDE FACTORY INTERGAL DISCONNECT
 4 PROVIDE ROOF CAP.
 5 INTERLOCK WITH AHU-1
 6 INTERLOCK WITH AHU-2
 7 INTERLOCK WITH RTU-1

MINI SPLIT SCHEDULE

MARK	MANUFACTURER	MODEL	TOTAL COOLING (MBH)	AIR HANDLER			CONDENSING UNIT		POWER			REMARKS
				SUPPLY CFM	OA CFM	VOLTS/Ø	OUTDOOR TEMPERATURE	SEER	MCA	MOCP	VOLTS/Ø	
									MCA	MOCP	VOLTS/Ø	
DSSI-1	mitsubishi	PKA-A12	12	370	N/A	-	-	-	-	-	-	1 - 6
DSSO-1	mitsubishi	PUZ-A12	-	-	-	-	92	20	11	28	208/1	1 - 6
DSSI-2	mitsubishi	PKA-A12	12	370	N/A	-	-	-	-	-	-	1 - 6
DSSO-2	mitsubishi	PUZ-A12	-	-	-	-	92	20	11	28	208/1	1 - 6

* DESIGN CONDITIONS: OUTDOOR: SUMMER-92°F/77°F WINTER-40°F INDOOR: 75°F/50% RH

NOTES:
 1 PROVIDE WITH FACTORY CONDENSATE PUMP AS REQUIRED.
 2 CONDENSING UNIT COIL SHALL BE HERESITE COATED.
 3 PROVIDE LOCKABLE CLEAR PLASTIC THERMOSTAT COVER FOR REMOTE/THERMOSTAT.
 4 SHALL HAVE LOW AMBIENT OPERATION CAPABILITY.
 5 INDOOR UNIT IS POWERED BY THE OUTDOOR UNIT.
 6 DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.

ROOF HOOD SCHEDULE

MARK	MANUFACTURER	MODEL #	AIRFLOW(CFM)	PRESSURE DROP (IN W.G)	THROAT VELOCITY (FT/MIN)	THROAT AREA (SQFT)	DAMPER	REMARKS
RH-1	GREENHECK	FGI	5,800	0.2	1,060	5.42	MOTORIZED	1 - 4

NOTES:
 1 PROVIDE ROOF CURB. SECURE ROOF HOOD TO CURB TO ROOF STRUCTURE AS REQUIRED.
 2 PROVIDE WITH MOTORIZED DAMPER. DAMPER TO OPEN WHEN CORRESPONDING AIR HANDLER ENERGIZES. DAMPER TO CLOSE OTHERWISE.
 3 PROVIDE WITH FLORIDA PRODUCT APPROVAL #FL13225.1 DEPRIS IMPACT AND ROOF CURB HURRICANE RATED CONSTRUCTION.
 4 PROVIDE WITH SLOPED HURRICANE RATED ROOF CURB.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL #	DESCRIPTION	*FRAME	FINISH	MATERIAL	DAMPER	REMARKS
CD-1	PRICE	SCD	24"x24" SUPPLY SQUARE CONE DIFFUSER W/ ROUND NECK	LAY-IN	WHITE	ALUM	YES	1 - 4
SG-1	PRICE	610	24"x12" LOUVERD SUPPLY GRILLE, 45° DEFLECTION, 3/4" SPACES	FLANGED	WHITE	ALUM	YES	1 - 5
SG-2	PRICE	610	8"x6" LOUVERD SUPPLY GRILLE, 45° DEFLECTION, 3/4" SPACES	FLANGED	WHITE	ALUM	YES	1 - 5
SG-3	PRICE	610	10"x6" LOUVERD SUPPLY GRILLE, 45° DEFLECTION, 3/4" SPACES	FLANGED	WHITE	ALUM	YES	1 - 5
RG-1	PRICE	630	24"x24" CEILING GRILLE, 45° DEFLECTION, 3/4" SPACES	LAY-IN	WHITE	ALUM	NO	1 - 4
RG-2	PRICE	630	24"x12" CEILING GRILLE, 45° DEFLECTION, 3/4" SPACES	LAY-IN	WHITE	ALUM	NO	1 - 4
RG-3	PRICE	630	32"x22" SIDEWALL LOUVERED RETURN GRILLE, 45° DEFLECTION, 3/4" SPACES	FLANGED	WHITE	ALUM	NO	1 - 5
EG-1	PRICE	630	6"x6" PERFERATED EXHAUST GRILLE	FLANGED	WHITE	ALUM	YES	1 - 5
EG-2	PRICE	630	24"x24" PERFERATED EXHAUST GRILLE	LAY-IN	WHITE	ALUM	YES	1 - 4
EG-3	PRICE	630	18"x12" PERFERATED EXHAUST GRILLE	FLANGED	WHITE	ALUM	YES	1 - 5
EG-4	PRICE	630	10"x6" PERFERATED EXHAUST GRILLE	FLANGED	WHITE	ALUM	YES	1 - 5

NOTES:
 1 PAINT PER ARCHITECT.
 2 NECK SIZE AS LISTED. FLEX SIZE SHALL MATCH NECK SIZE. PROVIDE FULL FACE LAY-IN MATCHING GRID DIMENSIONS.
 3 GRILLE NECK SIZE AS LISTED. DUCTWORK SHALL BE FULL FACE.
 4 DAMPERS SHALL BE INSTALLED IN DUCTWORK FOR ALL DIFFUSERS/GRILLES UNLESS OTHERWISE INDICATED.
 5 PROVIDE WITH SERVICE ACCESS BORDER TYPE.



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 Project 2020606

Hillsborough County Sheriff's Office Regional Canine Training Center

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MECHANICAL SCHEDULES

#	ISSUED FOR	DATE
1	PERMIT SET	6/11/2024
2	ADDENDUM #2	06/02/2024

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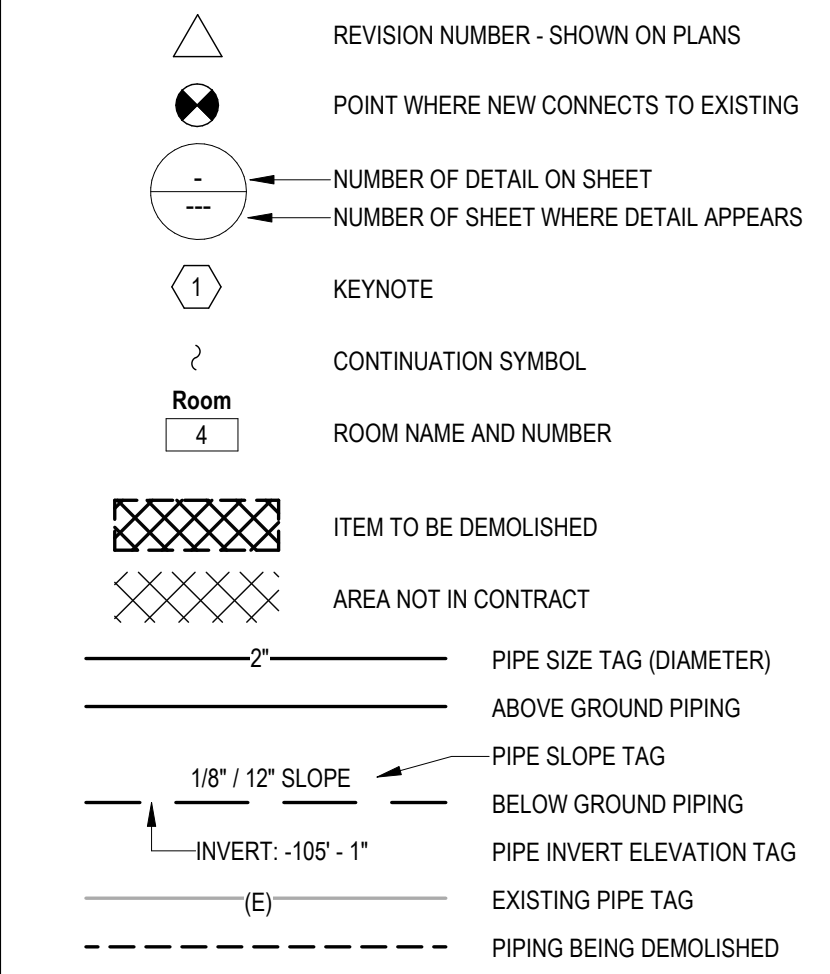
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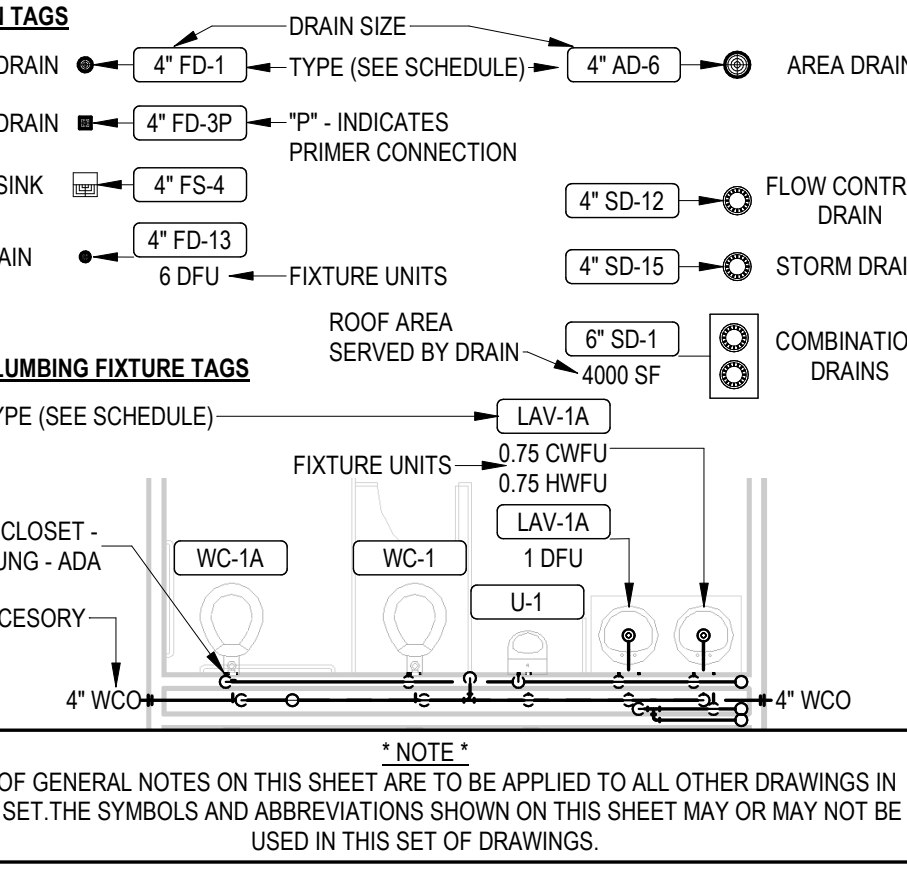
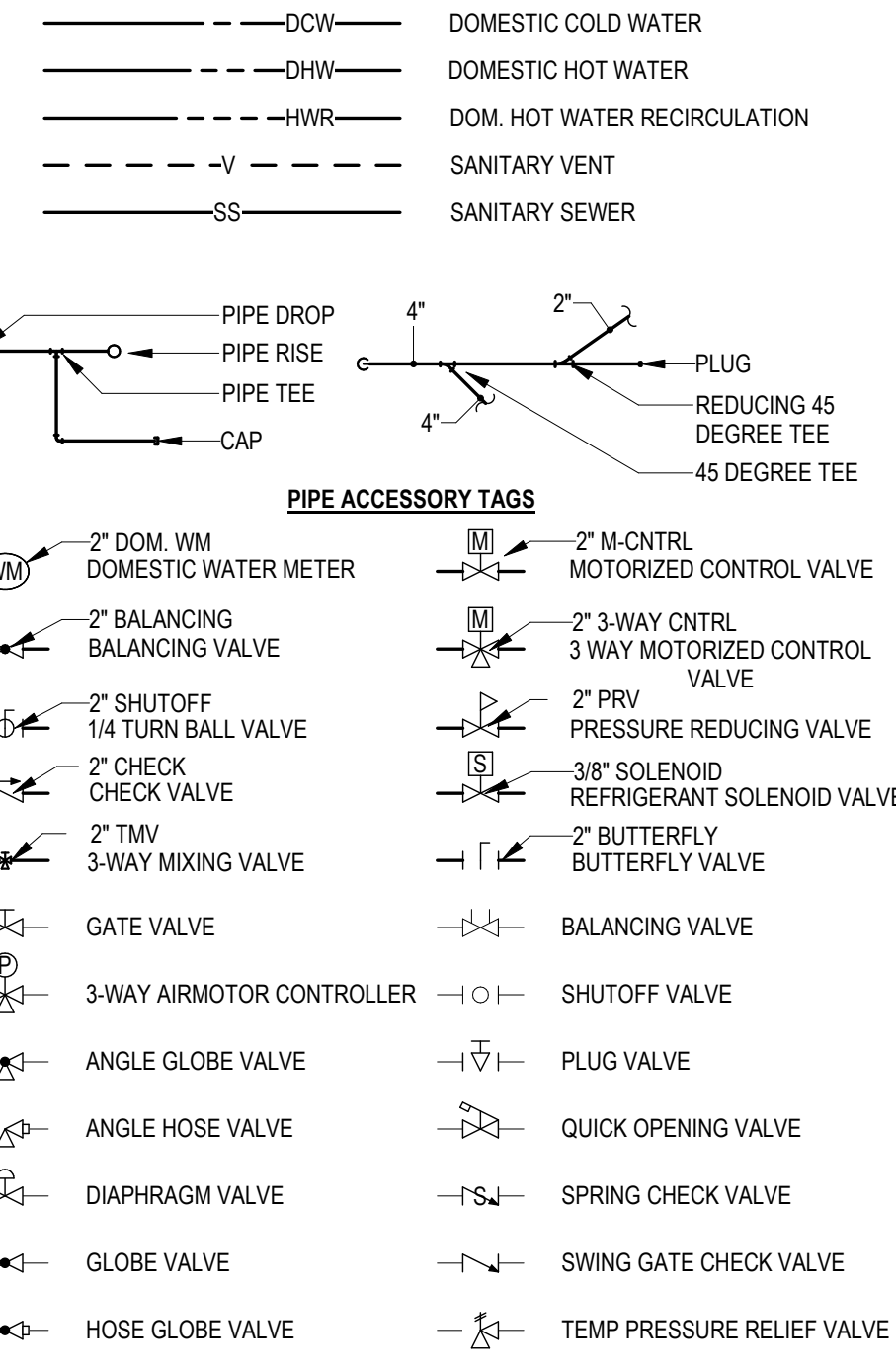
GENERAL MECHANICAL SYMBOLS



ABBREVIATIONS

ABV	ABOVE	HB	HOSE BIBB
AD	AREA DRAIN	HW	HOT WATER
AFF	ABOVE FINISHED FLOOR	IN	INCH
BFF	BELOW FINISHED FLOOR	NIC	NOT IN CONTRACT
BLW	BELOW	NO	NUMBER
CLG	CEILING	NTS	NOT TO SCALE
CO	CLEAN OUT	PD	PRESSURE DROP
CW	COLD WATER	PLBG	PLUMBING
D	DEGREE	PRESS	PRESSURE
DN	DOWN	PRV	PRESSURE REDUCING VALVE
DOM.	DOMESTIC	PSI	POUNDS PER SQUARE INCH
ET	EXPANSION TANK	RED	REDUCER
EWC	ELECTRIC WATER COOLER	SF	SQUARE FOOT
EW	ELECTRIC WATER HEATER	SF	SQUARE FOOT
EXIST	EXISTING	SAN	SANITARY
F	FAHRENHEIT	SP	STATIC PRESSURE
FD	FLOOR CLEAN OUT	TEMP	TEMPERATURE
FLOOR DRAIN	FLOOR DRAIN	TYP	TYPICAL
FL	FLOOR	V	VENT
FS	FLOOR SINK	VTR	VENT THROUGH ROOF
FT	FOOT/FEET	WCO	WALL CLEAN OUT
GPM	GALLONS PER MINUTE	WH	WALL HYDRANT

PLUMBING AND PIPING SYMBOLS



PLUMBING NOTES

- ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, AND LOCAL CODES. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE 2023 FLORIDA PLUMBING CODE. WHERE CONFLICTS OCCUR BETWEEN CODES, OR BETWEEN CONSTRUCTION DOCUMENTS AND CODES, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.
- REVIEW PLANS OF ALL TRADES PRIOR TO BIDDING AND BEGINNING WORK. INSTALLATIONS TO INCLUDE ALL PLUMBING FOR COMPLETE SYSTEMS SHOWN ON THE PLANS AND AS REQUIRED.
- COORDINATE WITH OTHER TRADES TO PREVENT INTERFERENCE WITH HVAC DUCTS, STRUCTURE, ELECTRICAL, LIGHTING, AND OTHER PIPING IN THE CEILING SPACE. VENT PIPING AND WATER PIPING SHALL BE HELD EITHER ABOVE OR BELOW HVAC DUCTWORK, AS COORDINATED WITH THE HVAC CONTRACTOR.
- ALL CHANGES SHALL BE REVIEWED BY THE ARCHITECT.
- COORDINATE WITH ARCHITECTURAL DRAWINGS BEFORE ROUGHING-IN PLUMBING FIXTURES AND EQUIPMENT SUPPLIES.
- THE PLUMBING SUBCONTRACTOR SHALL FURNISH AND INSTALL ALL PLUMBING FIXTURES, UNLESS NOTED OTHERWISE.
- VERIFY MOUNTING HEIGHT AND WATER CONNECTION SIZES OF ALL PLUMBING FIXTURES PRIOR TO ROUGH-IN. FURNISH CUT-OUT TEMPLATES, FOR PLUMBING FIXTURES TO BE INSTALLED IN MILLWORK, TO THE GENERAL CONTRACTOR.
- MAKE PROPER HOT AND COLD WATER, WASTE AND VENT PIPING CONNECTIONS TO ALL FIXTURES AND EQUIPMENT EVEN THOUGH ALL FITTINGS AND CONNECTIONS ARE NOT SHOWN ON DRAWINGS.
- VERIFY LOCATION OF WATER SERVICE AND THE LOCATION/INVERTS OF SANITARY PIPING PRIOR TO INSTALLATION.
- CUT AND PATCH CONCRETE AS REQUIRED.
- IT IS NOT THE INTENT OF THESE DRAWINGS TO COVER ALL WORK AND MATERIAL. ANY EQUIPMENT, PLUMBING FIXTURE, TRIM HARDWARE AND/OR DEVICES USUALLY UTILIZED IN THE CLASS OF WORK, THOUGH NOT SPECIFICALLY MENTIONED OR SHOWN ON THESE DRAWINGS, BUT WHICH MAY BE NECESSARY FOR THE SATISFACTORY COMPLETION OF THE WORK (AS DETERMINED BY THE ARCHITECT) SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AS PART OF HIS TOTAL WORK.
- THE EQUIPMENT ROUGH-IN ITEMS AND THEIR DIMENSIONED LOCATIONS FOR ALL CONNECTIONS ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE. IN SOME INSTANCES THE OWNER OR SUPPLIER MAY MAKE SUBSTITUTIONS OR EQUIPMENT ITEMS MAY VARY FROM WHAT IS SHOWN. THEREFORE, THESE ITEMS AND DIMENSIONS SHALL BE VERIFIED WITH THE EQUIPMENT SUPPLIER, OWNER AND/OR EQUIPMENT ROUGH-IN DRAWING. FAILURE OF THE APPROPRIATE CONTRACTOR TO VERIFY ROUGH-INS OR THEIR LOCATIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION AND/OR ADDITIONAL ROUGH-INS DIRECTLY UPON THAT CONTRACTOR.
- CONTRACTOR SHALL SUPPLY TO THE ARCHITECT/ENGINEER THE REQUIRED COPIES OF SHOP DRAWINGS FOR APPROVAL SO THE QUALITY OF INTENDED MATERIALS OR EQUIPMENT CAN BE REVIEWED BEFORE INSTALLATION. THERE WILL BE NO INSTALLATION UNTIL SHOP DRAWINGS HAVE BEEN SUBMITTED AND REVIEWED BY THE ARCHITECT/ENGINEER.
- DO NOT SCALE THIS DRAWING. REFER TO ARCHITECTURAL FLOOR PLAN FOR BUILDING DIMENSIONS.
- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DESIGNED AROUND BASIS OF DESIGN PRODUCTS WHICH HAVE ESTABLISHED THE PERFORMANCE CRITERIA FOR THIS PROJECT. PRODUCTS SUBMITTED BY THE CONTRACTOR MAY BE ARRANGED DIFFERENTLY AND THE PRODUCTION OF CONTRACTOR COORDINATED DRAWINGS IS REQUIRED TO BE SUBMITTED PRIOR TO THE START OF CONSTRUCTION. THESE DIAGRAMMATIC DRAWINGS DO NOT NECESSARILY SHOW ALL ELBOWS, OFFSETS, UNIONS, VALVES, FITTINGS, AND ACCESSORIES REQUIRED TO COMPLETE THE INSTALLATION OF WORK. THE SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED THEMSELVES WITH THE PLANS AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND LABOR BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED IF THEY COULD HAVE BEEN FORESEEN HAD PROPER EXAMINATION BEEN MADE.
- VERIFY SERVICE POINTS AND METERING LOCATIONS FOR PROJECTS WITH LOCAL UTILITIES AND/OR LANDLORD (DOMESTIC WATER, SANITARY SEWER, GAS, ETC.).
- THE CONTRACTOR SHALL COOPERATE FULLY AMONG ALL TRADES.
- ALL ROOF PENETRATIONS FOR ROOF DRAINS AND PLUMBING SHALL BE MADE IN ACCORDANCE WITH ROOF SYSTEM MANUFACTURER'S GUIDELINES. COORDINATE WITH ARCHITECTURAL DETAILS AND/OR MANUFACTURER FOR ROOF SYSTEM USED.
- ALL PLUMBING VENTS IN EXTERIOR WALLS SHALL BE OFFSET A MINIMUM OF 3'-0" BEFORE ROOF PENETRATION.
- INSTALL 1" INSULATION WITH ALL-SERVICE JACKET ON ALL ROOF LEADERS ABOVE CEILING.
- INSTALL PLENUM RATED INSULATION WRAP ON ALL PLASTIC VENT, SANITARY AND STORM PIPING LOCATED WITHIN A RETURN AIR PLENUM.
- PLUMBING CONTRACTOR SHALL VERIFY WITH THE LOCAL HEALTH DEPARTMENT AND/OR WATER COMPANY AS TO THE METER AND VALVING ARRANGEMENTS OF THE DOMESTIC WATER SERVICE LINE WHICH ENTERS THE BUILDING. SHOULD A BACKFLOW PREVENTER ASSEMBLY AND/OR PRESSURE REDUCING VALVE ASSEMBLY BE REQUIRED, PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL AS REQUIRED PER LOCAL AND STATE REQUIREMENTS. THE BACKFLOW ASSEMBLY SHALL BE A "WATTS" SERIES #909 OR APPROVED EQUAL, MEETING ASSE STANDARDS 1013, 1015, & 1020. IF BACKFLOW PREVENTER IS REQUIRED, PROVIDE PROPERLY SIZED THERMAL EXPANSION TANK IN SUPPLY PIPING OF WATER HEATER. IF WATER PRESSURE IS 65 PSI OR ABOVE, THE PRESSURE REDUCING VALVE ASSEMBLY SHALL BE A "WATTS" SERIES #U5 SET AT 50 PSI DELIVERY PRESSURE, UNLESS OTHERWISE NOTED.
- THE POTABLE WATER SUPPLY SHALL BE PROTECTED AGAINST BACKFLOW AND SIPHONAGE, BOTH NATURAL AND INDUCED. ALL EQUIPMENT CONNECTED TO THE POTABLE WATER SYSTEM BEING CAPABLE OF POLLUTING OR CONTAMINATING THE POTABLE WATER DISTRIBUTION SYSTEM OR ANY PART THEREOF BY MEANS OF A REVERSAL OF FLOW, PRESSURE DROP, PRESSURE LOSS, INDUCED VACUUM, OR BY INJECTION BECAUSE OF ANY PRIMARY OR AUXILIARY PUMPING SYSTEM CONNECTED, MUST BE ISOLATED AND CONTAINED BY MEANS OF APPROVED BACKFLOW DEVICES, CHECK VALVES, AIR GAPS, OR VACUUM BREAKERS. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL THESE DEVICES PER LOCAL CODE REQUIREMENTS.
- THE WATER PIPING SYSTEM SHALL BE FLUSHED AND STERILIZED IN ACCORDANCE WITH LOCAL REGULATIONS.
- HOT AND COLD WATER SUPPLY BRANCHES FOR ALL SYSTEMS HAVING QUICK CLOSING VALVES OF ANY TYPE SHALL HAVE WATER HAMMER ARRESTORS INSTALLED AT THE HIGH POINT ON THE END OF EACH BRANCH AND AS REQUIRED.
- ALL PIPES HANGING FROM SINGLE VERTICAL RODS / HANGERS SHALL NOT MOVE OR SWAY DURING OPERATION. SUITABLE LATERAL SUPPORTS OR BRACING SHALL BE USED TO PREVENT SWAY OR MOVEMENT.
- PROVIDE SHUTOFF BALL VALVES AND DIELECTRIC UNIONS FOR ALL EQUIPMENT HOT AND COLD WATER LINES. PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO EQUIPMENT. COORDINATE WITH EQUIPMENT SUPPLIER FOR EXACT REQUIREMENTS.

PLUMBING NOTES

- VERIFY MOUNTING HEIGHTS OF ALL BARRIER FREE FIXTURES WITH ARCHITECTURAL PLANS.
- PROVIDE COPPER INDIRECT WASTE PIPING REQUIRED FROM EQUIPMENT TO FLOOR DRAINS, OPEN RECEPTACLES, OR FLOOR SINKS. PIPING SHALL COMPLY WITH STATE AND LOCAL CODES. COORDINATE WITH ALL EQUIPMENT SUPPLIERS AND SIZES AS REQUIRED BY PIECE OF EQUIPMENT SERVED. HOLD PIPING TIGHT TO WALL WHERE APPLICABLE. PROPERLY SECURE AS REQUIRED. COORDINATE WITH CASEWORK SUPPLIER FOR MAXIMUM CLEARANCE UNDER CABINETS.
- PROVIDE CHROME PLATED ESCUTCHEONS AT ALL WALL PENETRATIONS.
- INSTALL STORM AND CONDENSATE PIPING WITH A MINIMUM SLOPE OF 1/8" PER FOOT UNLESS OTHERWISE REQUIRED. CONTRACTOR IS RESPONSIBLE FOR PROPER DRAINAGE OF ALL SYSTEMS.
- INSTALL SANITARY PIPING LESS THAN 3" WITH A MINIMUM SLOPE OF 1/4" PER FOOT. 3" TO 6" WITH A MINIMUM SLOPE OF 1/8" PER FOOT. GREATER THAN 6" WITH A MINIMUM SLOPE OF 1/16" PER FOOT. CONTRACTOR IS RESPONSIBLE FOR PROPER DRAINAGE OF ALL SYSTEMS.
- ALL FLOOR DRAINS ARE TO BE PROVIDED WITH MINIMUM 3" DRAIN LINES, DEEP SEAL TRAPS, AND AUTOMATIC TRAP PRIMERS. TRAP PRIMERS SHALL BE LOCATED IN A SERVICEABLE LOCATION AND INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. HOLD TOP OF FLOOR DRAINS FLOUSH WITH FINISHED FLOOR; SEE ARCHITECTURAL SHEETS FOR FLOOR SLOPE AND PROPER FINISHED FLOOR ELEVATION.
- ALL VENT PIPE TO BE COMPATIBLE WITH STRUCTURE, MECHANICAL EQUIPMENT, DUCTWORK, ELECTRICAL EQUIPMENT, AND LIGHTING. ALL VTR'S SHALL BE EXTENDED TO A MINIMUM OF 2' ABOVE PARAPET HEIGHT AND MAINTAINED 10'-0" MINIMUM FROM ALL OUTSIDE AIR INTAKES.
- MATERIALS, EQUIPMENT, ASSEMBLIES AND SYSTEMS SHALL MEET ALL PERTINENT REQUIREMENTS OF NATIONALLY RECOGNIZED TESTING ORGANIZATIONS SUCH AS UL, ASTM, ASSE, AWWA, AGA AND NFPA AS WELL AS THE MOST CURRENT ADOPTED VERSION OF THE STATE AND LOCAL CODES.
- ALL INSTALLED SYSTEMS, DEVICES AND RELATED ITEMS SHALL BE TESTED IN PLACE. REPLACE ANY AND ALL CONTRACTOR SUPPLIED DEFECTIVE DEVICES, ITEMS, OR SYSTEMS AT CONTRACTOR'S EXPENSE, BEFORE COMPLETION OF PROJECT.
- WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT CHANGE THE SCOPE OR NATURE OF WORK REQUIRED, THE CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT ADDITIONAL COST TO THE OWNER. NO OTHER CHANGES MAY BE MADE WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
- ALL EQUIPMENT, FIXTURES AND MATERIALS SHALL BE NEW AND UNUSED, AND INSTALLED IN STRICT CONFORMANCE TO MANUFACTURER'S RECOMMENDATIONS (UNLESS OTHERWISE NOTED). PROVIDE COMPLETE WITH ALL TRIM, STOPS, HANGERS, CARRIERS, SUPPORTS, ETC. INCLUDING PROVISIONS FOR BARRIER FREE USE, IF REQUIRED. WHERE FIXTURES ARE ACCESSIBLE THEY MUST COMPLY WITH ALL FEDERAL ADA REGULATIONS.
- CONTRACTOR SHALL GUARANTEE ALL WORK FOR WHICH MATERIALS ARE FURNISHED, FABRICATED, FIELD ERRECTED, ALL FACTORY ASSEMBLED EQUIPMENT FOR WHICH NO SPECIFIC MANUFACTURER'S GUARANTEE IS FURNISHED, AND ALL WORK IN CONNECTION WITH INSTALLATION OF MANUFACTURER'S GUARANTEED EQUIPMENT. THE CONTRACTOR'S GUARANTEE SHALL LAST ONE YEAR FROM THE FINAL OWNER ACCEPTANCE OF THE WORK AND SHALL APPLY TO ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF ANY KIND.
- ALL FAUCET CONTROLS SHALL BE OPERABLE WITH ONE HAND AND NOT REQUIRE TIGHTGRASPING.
- ALL BARRIER FREE WATER CLOSET CONTROLS SHALL BE LOCATED ON UNIT TOWARDS WIDE SIDE OF STALL. VERIFY IF RIGHT OR LEFT SIDE LOCATION.

GENERAL NOTES

- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATIVE OF WORK TO BE PROVIDED (FURNISHED AND INSTALLED) UNDER THIS CONTRACT. DRAWINGS SHOULD NOT BE SCALED.
- THE CONTRACTOR IS RESPONSIBLE TO EXAMINE THE EXISTING CONDITIONS UNDER WHICH THEY SHALL OPERATE AND VERIFY THE EXTENT OF WORK REQUIRED TO COMPLETE THE WORK UNDER THIS CONTRACT.
- PRIOR TO ORDERING AND FABRICATING ANY EQUIPMENT, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE PHYSICAL CONDITIONS AT THE PROJECT SITE AND VERIFY SPACE AND SUFFICIENT CLEARANCES ARE AVAILABLE FOR INSTALLING EQUIPMENT, DUCTWORK, PIPING, AND APPURTENANCES, AND TO DETERMINE ANY NECESSARY MODIFICATIONS.
- PERFORM ALL WORK IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, REGULATIONS, AND STANDARDS ADOPTED BY THE AUTHORITY HAVING JURISDICTION. IF CONFLICTS EXIST BETWEEN THESE ENGINEERING DOCUMENTS AND CODES, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
- ALL CONSTRUCTION WORK SHALL ALSO MEET THE FOLLOWING CODE REQUIREMENTS:
 - FLORIDA BUILDING CODE (FBC) 2023
 - FLORIDA EXISTING BUILDING CODE 2023
 - FBC MECHANICAL 2023
 - FBC PLUMBING 2023
 - FBC ENERGY CONSERVATION 2023
 - FLORIDA FIRE PREVENTION CODE 2023
 - NFPA 1-2021, THE UNIFORM FIRE CODE
 - NFPA 101-2021, THE LIFE SAFETY CODE
 - NFPA 51B-2019, STANDARD FOR FIRE PREVENTION DURING WELDING, CUTTING AND OTHER HOT WORK
 - NFPA 13-2019, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
 - NFPA 70-2020, NATIONAL ELECTRICAL CODE
 - NFPA 90A-2021, STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTING SYSTEMS
 - NFPA 99-2019, STANDARD FOR HEALTH CARE FACILITIES
 - NFPA 241-2016, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS.
- CONTRACTOR SHALL COORDINATE AND SEQUENCE DEMOLITION, CLEANING, AND CONSTRUCTION WORK.
- CONTRACTOR SHALL NOTE ANY SPECIAL REQUIREMENTS FOR INSTALLATION OF WORK UNDER THIS CONTRACT. DISMANTLE AND REASSEMBLE EQUIPMENT AS NECESSARY FOR ENTRY INTO THE BUILDING AND THE LOCATION OF INSTALLATION.
- THE CONTRACTOR SHALL MAINTAIN A COMPLETE PROJECT SCHEDULE AND SHALL UPDATE THIS SCHEDULE WEEKLY. ANY CHANGES SHALL BE NOTED AND AN UPDATED SCHEDULE SHALL BE PROVIDED TO THE OWNER.
- ALL PERMITS, FEES, TAXES, ETC SHALL BE PAID BY CONTRACTOR AS PART OF THE TOTAL PROJECT COST.
- MAINTAIN THE INTEGRITY OF ALL FIRE AND SMOKE RATED WALLS, PARTITIONS, CEILING, AND FLOORS. SEAL ALL PENETRATIONS THROUGH RATED ASSEMBLIES WITH FIRESTOP MATERIAL IN ACCORDANCE WITH U.L. REQUIREMENTS TO MAINTAIN THE ASSEMBLY RATING.
- CONTRACTOR SHALL FURNISH U.L. APPROVED DRAWINGS FOR EACH TYPE OF FIRE AND SMOKE RATED ASSEMBLY PENETRATION BY DUCTS, PIPES, OR CONDUITS, AND SHALL DISPLAY THESE DRAWINGS ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.
- CONTRACTOR SHALL REFER TO ALL DETAILS FOR PROPER GUIDANCE.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND EQUIPMENT SUBMITTALS FOR ALL PRODUCTS USED ON PROJECT.
- THE ENGINEER'S APPROVAL OF SUBMITTAL DATA SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DEVIATIONS FROM THE REQUIREMENTS OF CONTRACT DOCUMENTS UNLESS THE CONTRACTOR HAS RECEIVED WRITTEN APPROVAL FROM THE ENGINEER TO THE SPECIFIC DEVIATION. THE ENGINEER'S APPROVAL OF SUBMITTAL DATA SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN HIS OR HER SUBMITTAL DATA.
- THE CONTRACTOR IS REQUIRED TO SUBMIT THREE COMPLETE O&M MANUALS IN THREE RING BINDERS AT SUBSTANTIAL COMPLETION. MANUALS SHALL INCLUDE INSTALLATION AND MAINTENANCE DATA ON ALL NEW EQUIPMENT AND MATERIALS, CERTIFIED TECHNICAL PRODUCT DATA, EQUIPMENT SHOP DRAWINGS, SPARE PARTS DATA, ETC. PROVIDE AN INDEX AND ASSOCIATED DIVIDERS.
- CLOSE OUT DOCUMENTS: THE CONTRACTOR IS TO MAINTAIN ONE SET OF CONSTRUCTION DRAWINGS ON SITE AND KEEP CURRENT WITH MARK UP AS-BUILT CONDITIONS DURING CONSTRUCTION OF THE PROJECT. THIS SET IS TO INCLUDE ALL CONTRACT CHANGES, MODIFICATIONS AND CLARIFICATIONS. THIS SET ALONG WITH ALL SHOP DRAWINGS SHALL BE TURNED OVER TO THE ARCHITECT/ENGINEER AFTER CONSTRUCTION COMPLETION.
- IT IS THE RESPONSIBILITY OF ALL BIDDERS TO THOROUGHLY REVIEW AND UNDERSTAND ALL CONSTRUCTION DOCUMENTS. THIS INCLUDES BUT IS NOT LIMITED TO ALL DRAWINGS, SPECIFICATION SECTIONS, ETC. THE DRAWINGS ARE SCHEMATIC IN NATURE. THEREFORE BEFORE STARTING ANY WORK, THE CONTRACTOR SHALL REVIEW ALL OTHER CONSTRUCTION DOCUMENTS, VERIFY FIELD CONDITIONS AND SHALL MAKE ANY REQUIRED MINOR ADJUSTMENTS WITHOUT EXTRA COST TO THE OWNER. ANY MAJOR DISCREPANCIES FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE BASE BID SHALL REFLECT THE TOTAL COST OF NEW EQUIPMENT INSTALLATION. THIS INCLUDES LABOR, EQUIPMENT AND MATERIALS. NO CHANGE ORDERS SHALL BE ISSUED WITHOUT WRITTEN CONSENT AND APPROVAL FROM ENGINEER AND ARCHITECT.

PLUMBING SHEET INDEX

SHEET	DESCRIPTION
P-001	PLUMBING NOTES, LEGENDS, & ABBREVIATIONS
P-101	SANITARY AND VENT PIPING - FLOOR PLAN
P-201	DOMESTIC WATER PIPING - FLOOR PLAN
P-301	PLUMBING ROOF PLAN
P-401	PLUMBING ENLARGED PLANS
P-501	PLUMBING DETAILS
P-601	PLUMBING SCHEDULES
P-801	PLUMBING ISOMETRICS

THE LUNZ GROUP

MES GROUP

Hillsborough County Sheriff's Office Regional Canine Training Center

2102 N FALKENBURG RD
TAMPA, FL 33619

PLUMBING NOTES, LEGENDS, & ABBREVIATIONS

#	ISSUED FOR PERMIT SET	DATE
		01/10/24

DRAWN BY: KM
REVIEW BY: NPS

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2023559

P-001

NUMBER OF FIXTURES	75
TOTAL DFU	183

GENERAL NOTES

A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT NECESSARILY SHOW ALL ELBOWS, OFFSETS, UNION, VALVES AND FITTINGS REQUIRED TO COMPLETE THE INSTALLATION OF THE WORK.

B. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE PLUMBING FIXTURES WITH THE ARCHITECT AND INTERIOR DESIGNER.

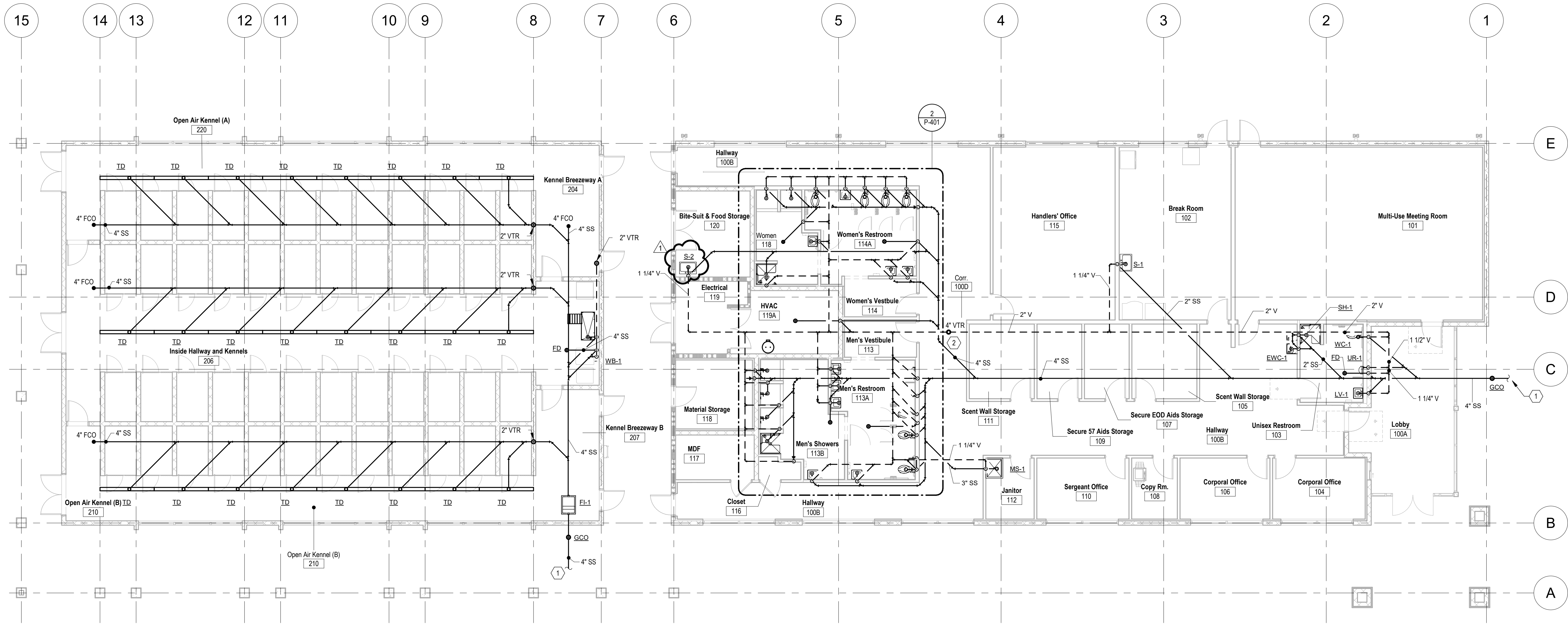
C. CONTRACTOR IS TO SLOPE SANITARY AND STORM PIPING AT A MINIMUM OF 1/8" PER FOOT UNLESS OTHERWISE NOTED. CONTRACTOR IS RESPONSIBLE FOR PROPER DRAINAGE OF ALL SYSTEMS.

D. REFER TO DETAILS FOR PROPER INSTALLATION.

KEYNOTES

1. CONNECT TO 4" SANITARY MAIN. REFER TO CIVIL PLANS FOR CONTINUATION.

2. COORDINATE LOCATION OF NEW VTR'S WITH STRUCTURAL.



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SANITARY AND VENT PIPING - FLOOR PLAN

SANITARY AND VENT PIPING - FLOOR PLAN
 1/8" = 1'-0"



#	ISSUED FOR	DATE
1	PERMIT SET	01/11/2024
	ADDENDUM #2	08/02/2024

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2023559

NUMBER OF FIXTURES	75
TOTAL WSFU	233.5

GENERAL NOTES

A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT NECESSARILY SHOW ALL ELBOWS, OFFSETS, UNION, VALVES AND FITTINGS REQUIRED TO COMPLETE THE INSTALLATION OF THE WORK.

B. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE PLUMBING FIXTURES WITH THE ARCHITECT AND INTERIOR DESIGNER.

C. REFER TO DETAILS FOR PROPER INSTALLATION.

KEYNOTES

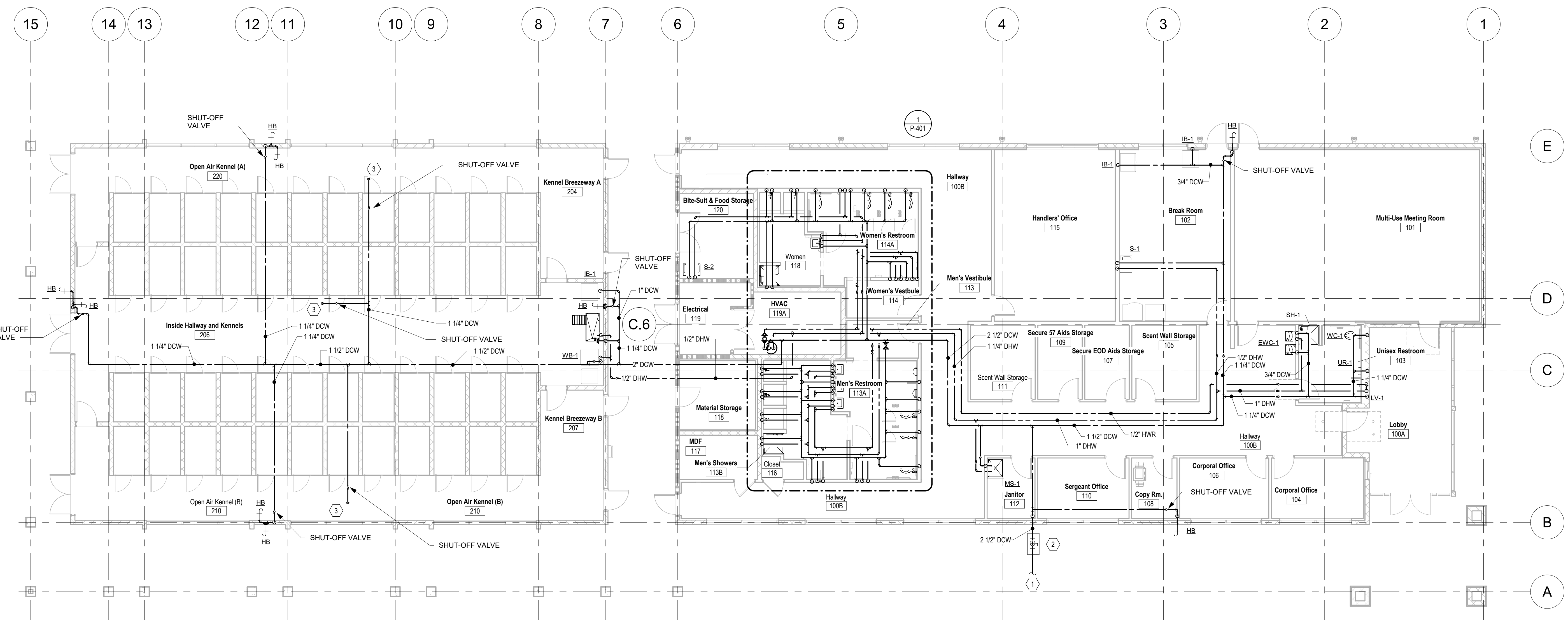
- CONNECT TO 2-1/2" WATER MAIN. REFER TO CIVIL PLANS FOR CONTINUATION.
- PROVIDE SHUT-OFF VALVE IN GRADE DUTY BOX. REFER TO CIVIL PLANS FOR COORDINATION.
- CAP DOMESTIC COLD WATER PIPING FOR FUTURE USE.



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 Project 2020606

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DOMESTIC WATER PIPING - FLOOR PLAN



DOMESTIC WATER PIPING - FLOOR PLAN
 1/8" = 1'-0"



#	ISSUED FOR	DATE
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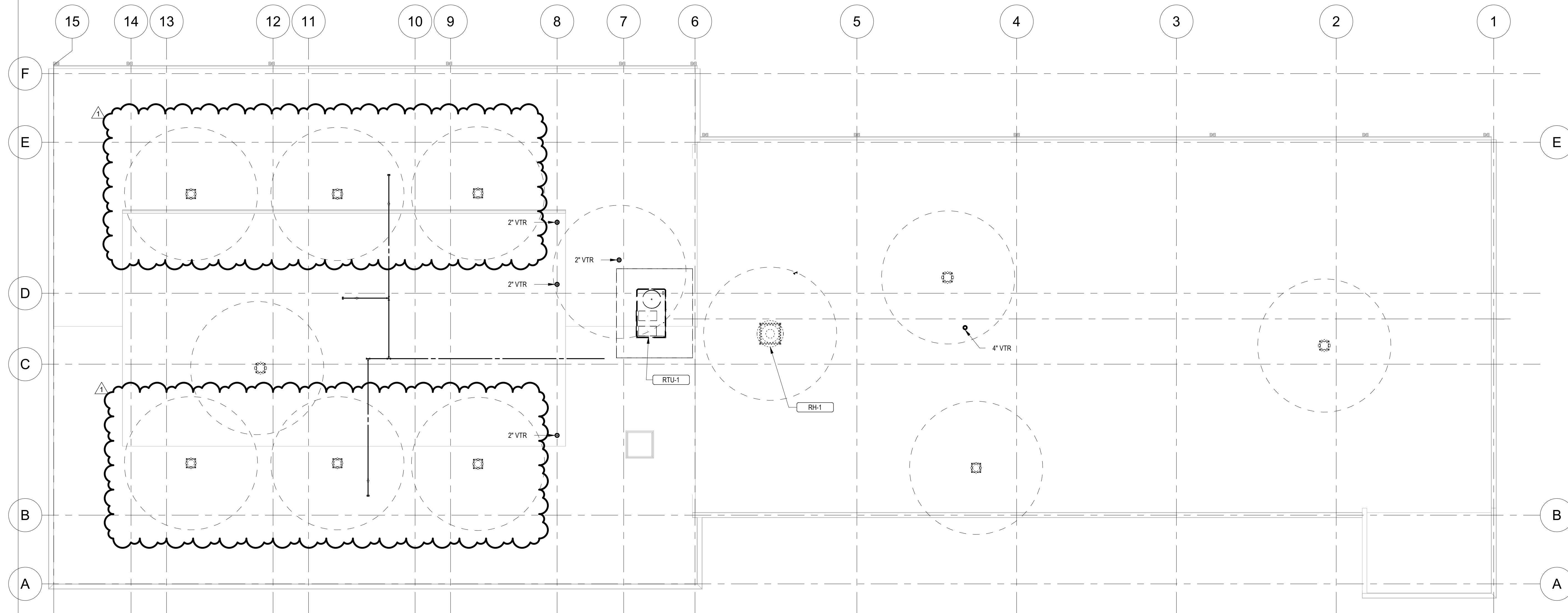
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PLUMBING ROOF PLAN



#	ISSUED FOR	DATE
1	PERMIT SET	01/11/2024
	ADDENDUM #2	08/02/2024

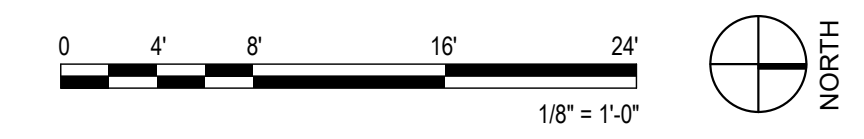
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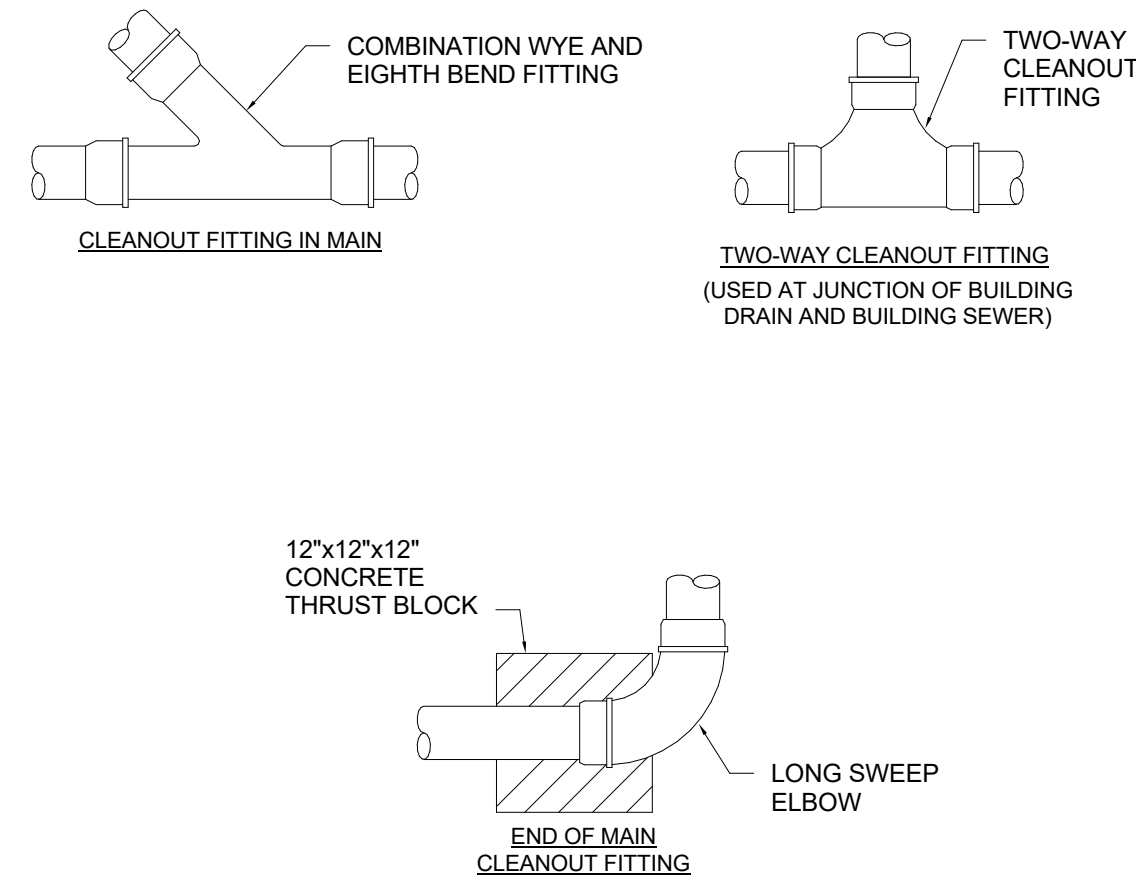
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1 PLUMBING ROOF PLAN
P-301 1/8" = 1'-0"



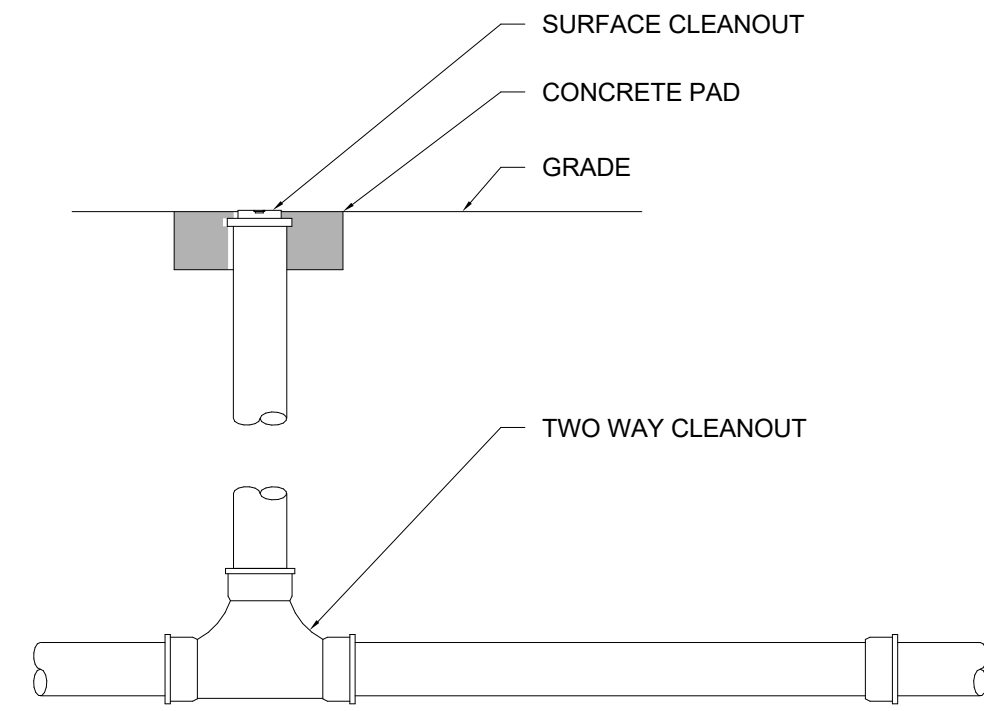
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P-301



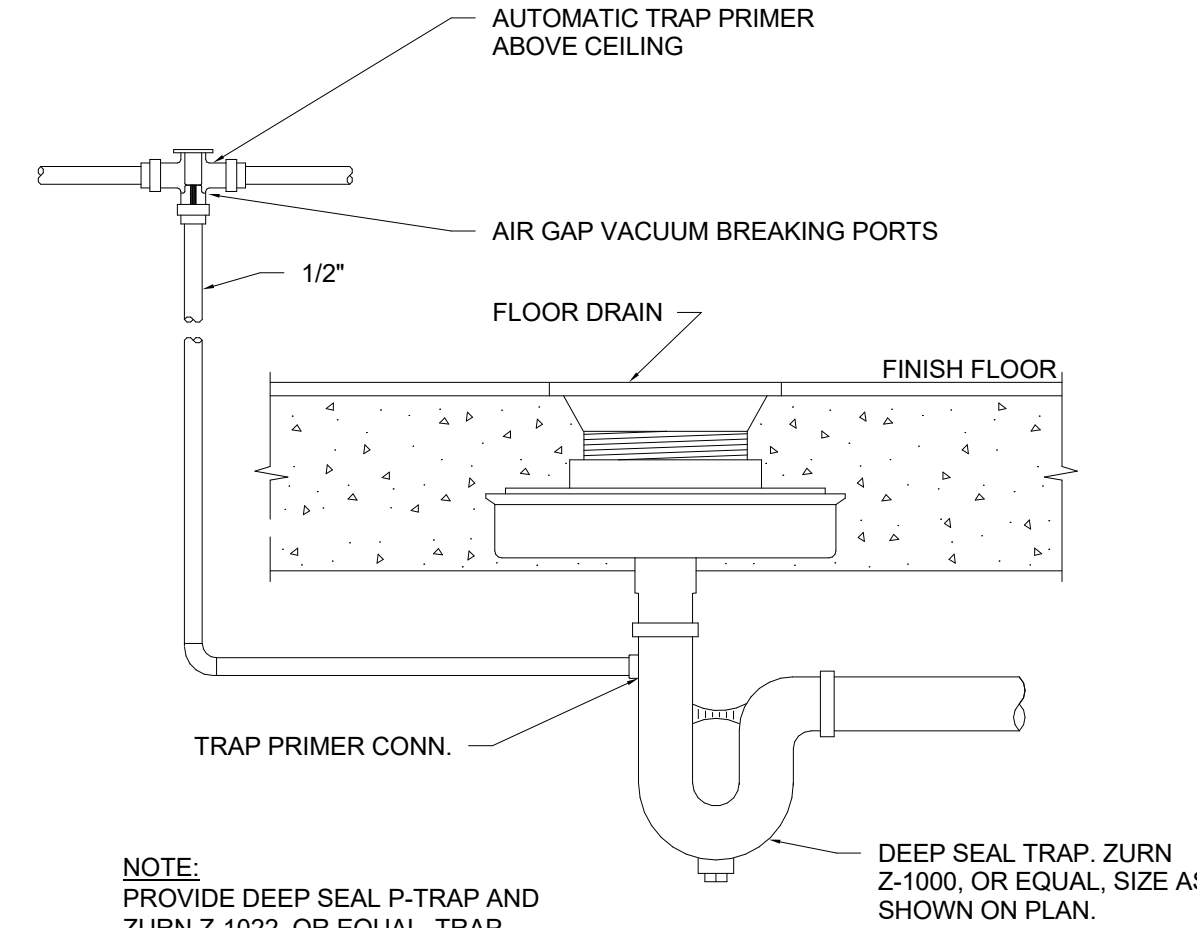
9 CLEANOUT FITTINGS DETAIL

N.T.S.



7 2-WAY GRADE CLEANOUT DETAIL

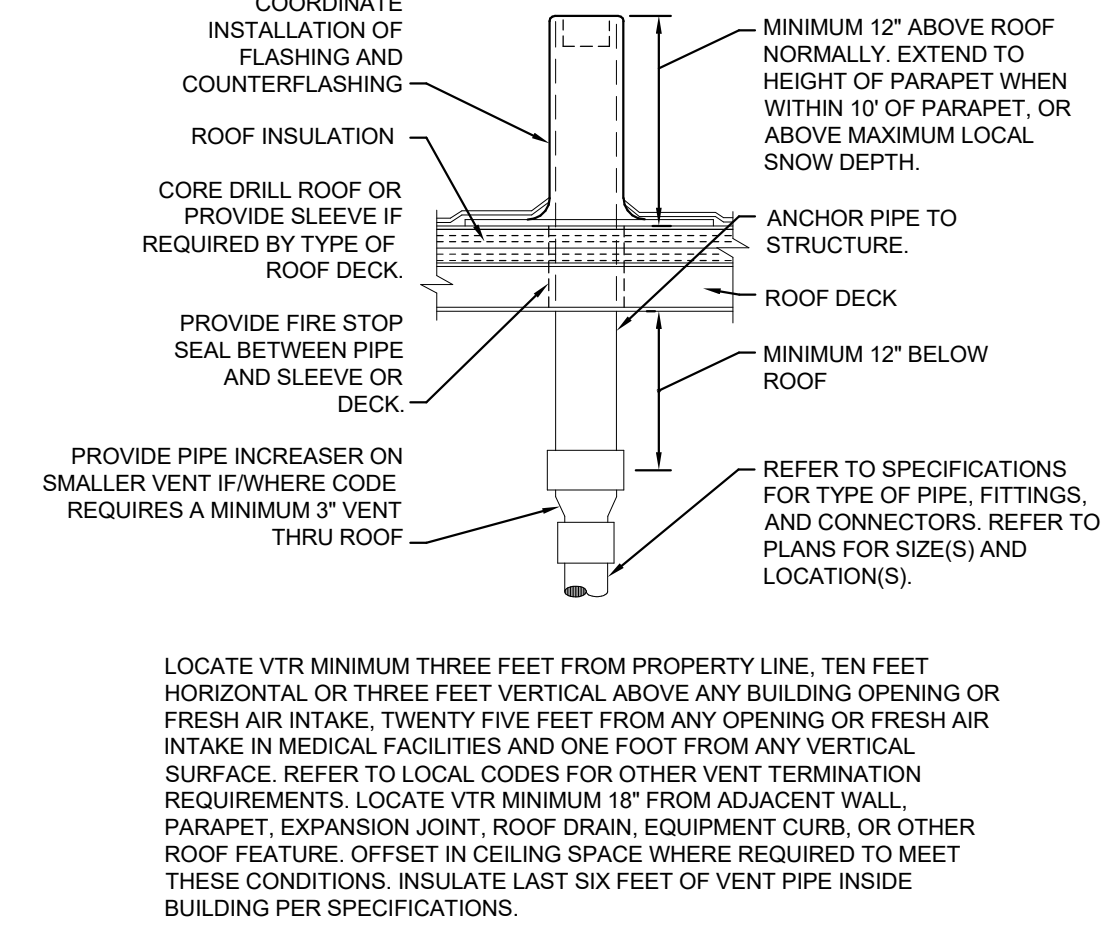
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NOTE:
PROVIDE DEEP SEAL P-TRAP AND ZURN Z-1022, OR EQUAL, TRAP PRIMER ON ALL FLOOR DRAINS, HUB DRAINS AND FLOOR SINKS.

4 TRAP PRIMER DETAIL

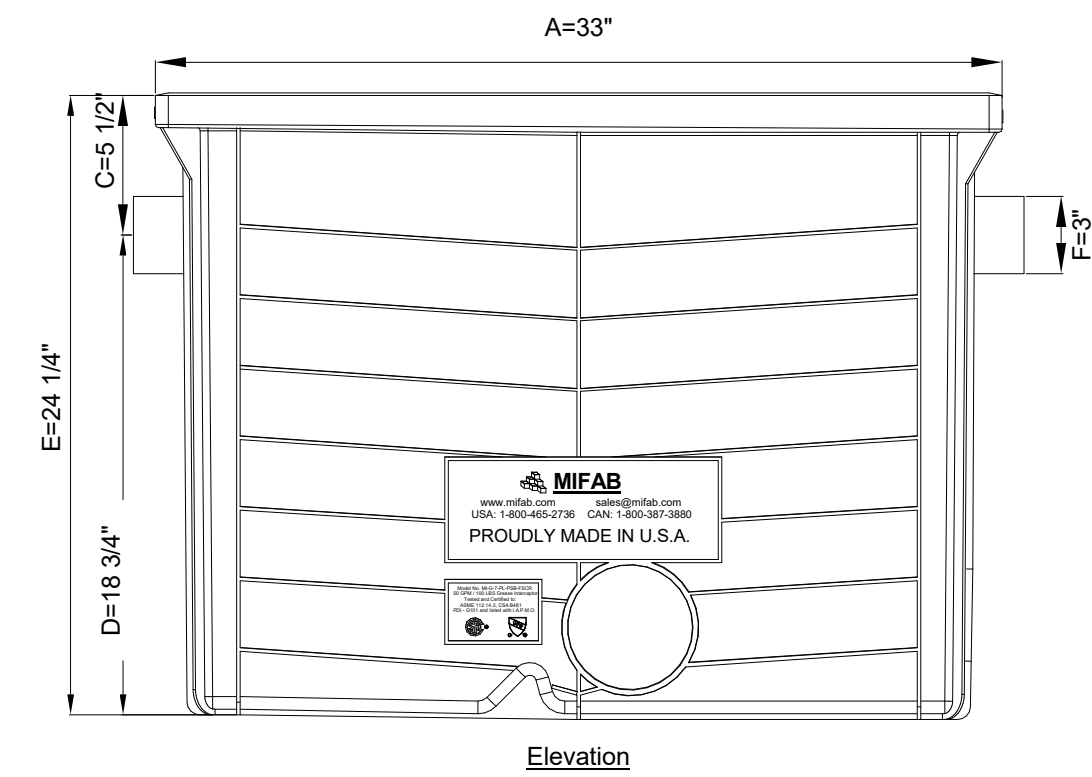
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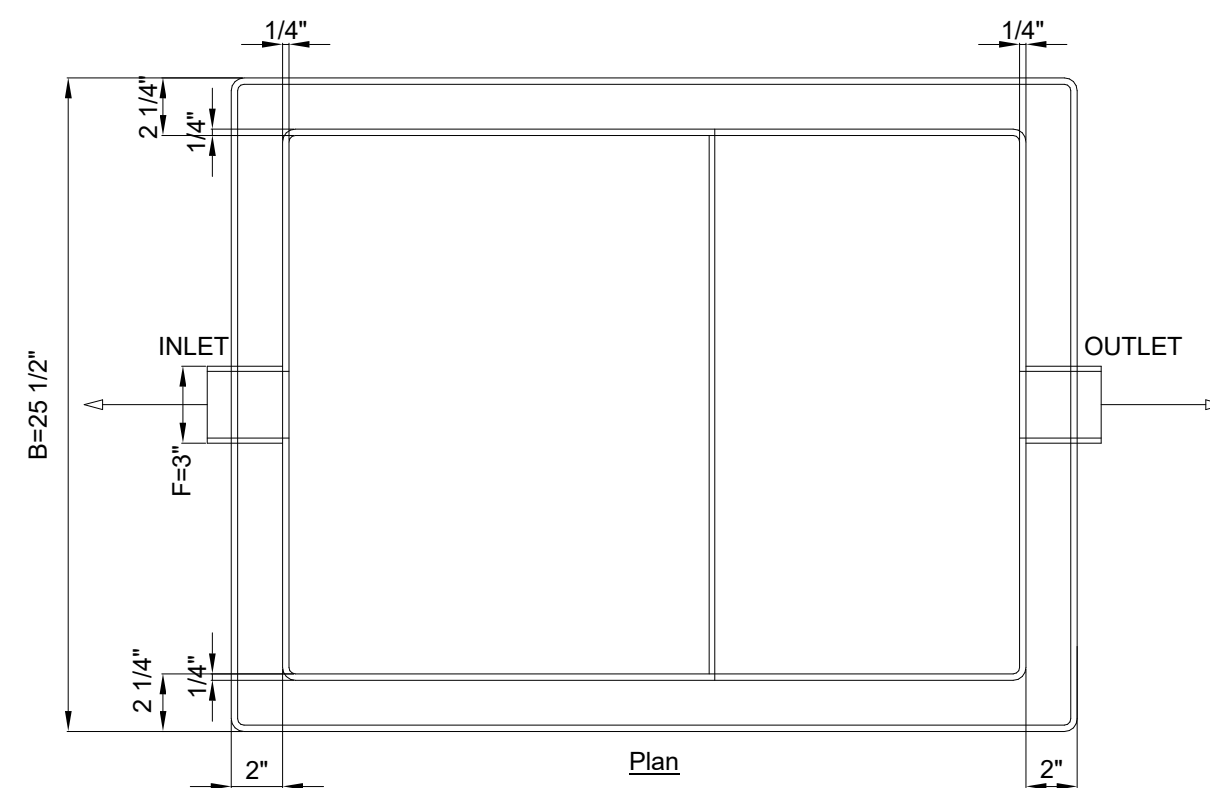
LOCATE VTR MINIMUM THREE FEET FROM PROPERTY LINE, TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, TWENTY FIVE FEET FROM ANY OPENING OR FRESH AIR INTAKE IN MEDICAL FACILITIES AND ONE FOOT FROM ANY VERTICAL SURFACE. REFER TO LOCAL CODES FOR OTHER VENT TERMINATION REQUIREMENTS. LOCATE VTR MINIMUM 18" FROM ADJACENT WALL, PARAPET, EXPANSION JOINT, ROOF DRAIN, EQUIPMENT CURB, OR OTHER ROOF FEATURE, OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS. INSULATE LAST SIX FEET OF VENT PIPE INSIDE BUILDING PER SPECIFICATIONS.

1 VENT THRU ROOF ("VTR")

N.T.S.



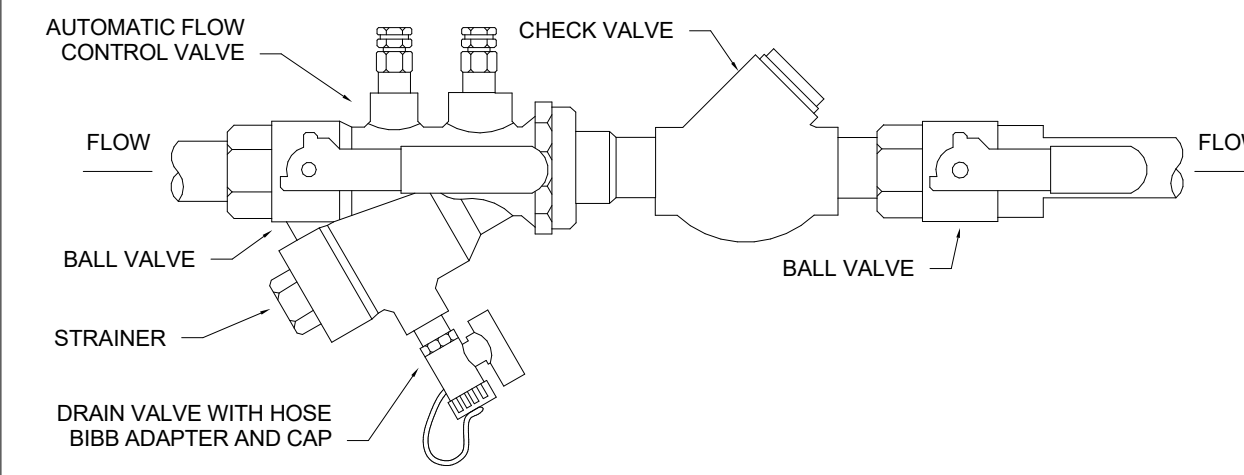
Elevation



Plan

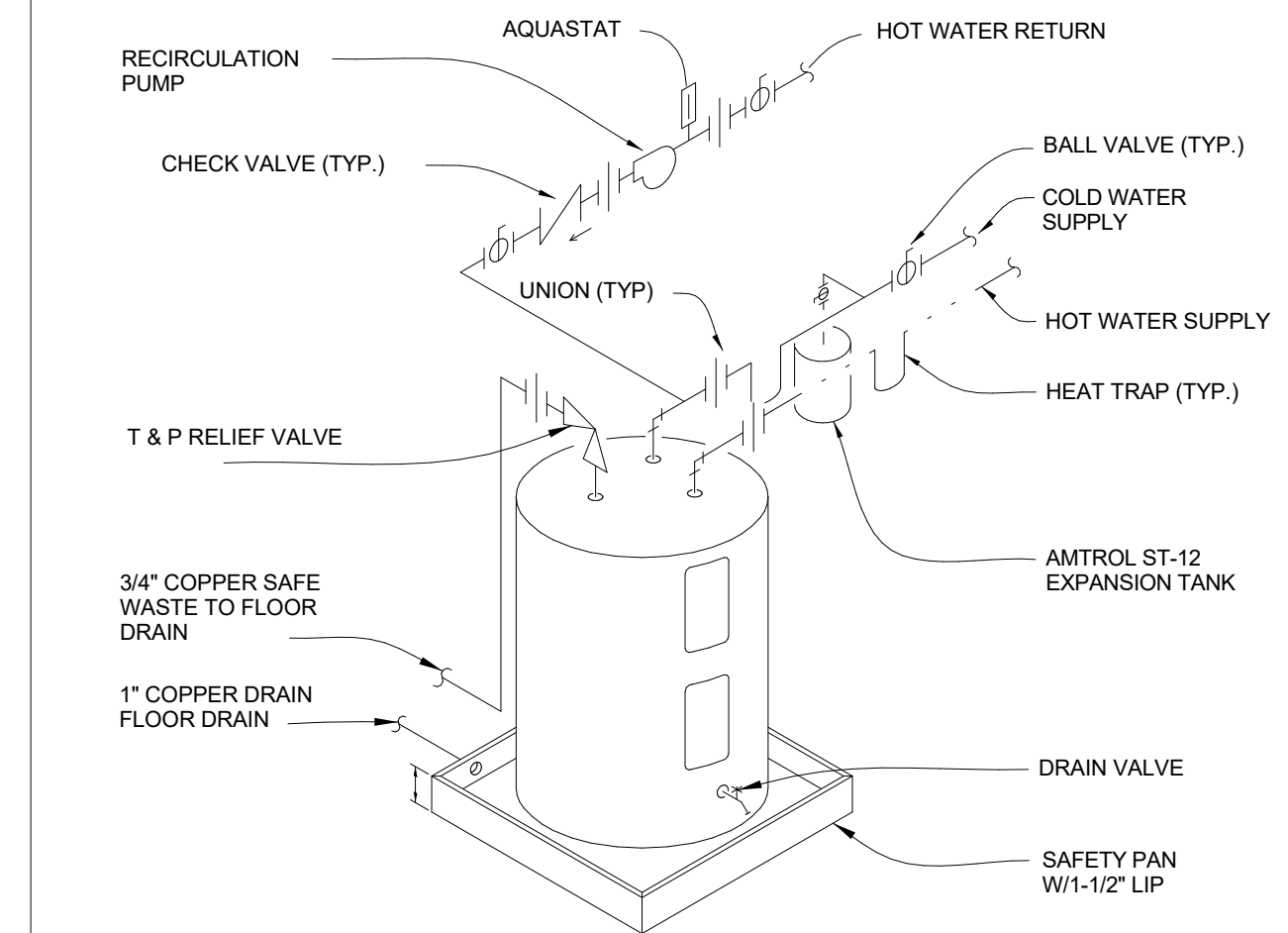
8 FUR INTERCEPTOR DETAIL

N.T.S.



5 POTABLE HWR BALANCING VALVE STATION

N.T.S.



2 WATER HEATER W/ RECIRCULATION PUMP

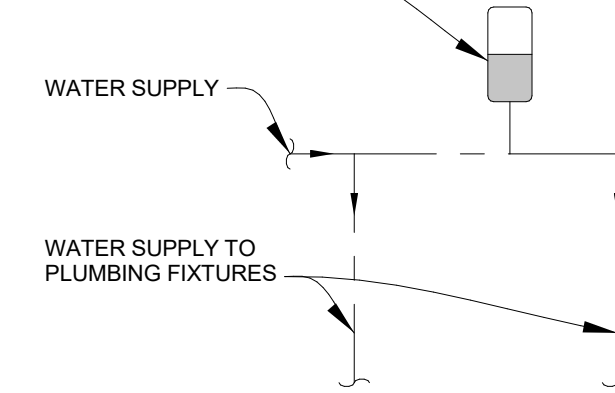
N.T.S.

WATER HAMMER ARRESTOR SIZE

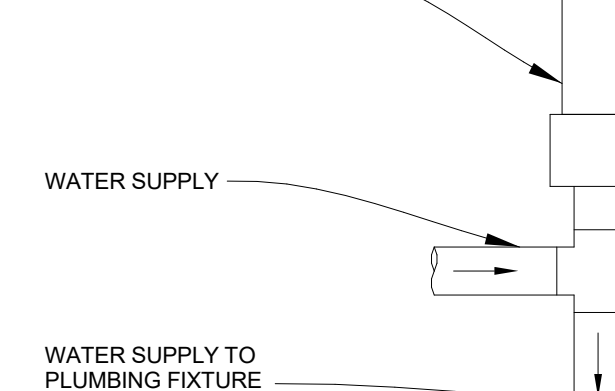
MODEL	CONNECTION DIA	FIXTURE UNITS	CROSS REFERENCE FID
LF15M2-A	1/2	1-11	A
LF15M2-B	3/4	12-32	B
LF15M2-C	1	33-60	C
LF15M2-D	1	61-113	D
LF15M2-E	1	114-154	E
LF15M2-F	1	155-330	F

SIZING BASED ON WATTS SERIES LF15M2

WATER HAMMER ARRESTOR. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

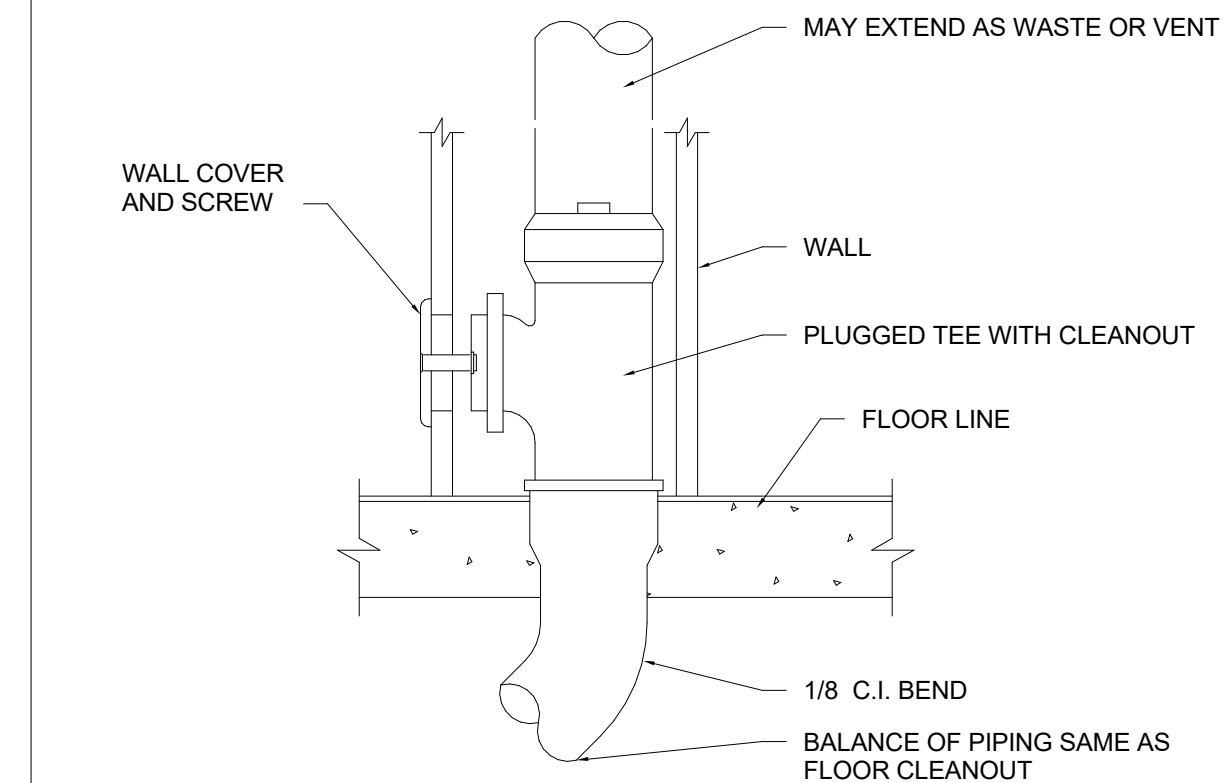


WATER HAMMER ARRESTOR. INSTALL PER MANUFACTURERS RECOMMENDATIONS.



6 WATER HAMMER ARRESTOR DETAIL

N.T.S.



3 WALL CLEANOUT DETAIL

N.T.S.

#	ISSUED FOR	DATE
	PERMIT SET	01/11/2024

DRAWN BY: KM
REVIEW BY: NPS

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PLUMBING ACCESSORIES

FD:
FLOOR DRAIN - ZURN ZN415B-P-IP; 6" ROUND NICKEL BRONZE ADJUSTABLE STRAINER HEAD, CAST-IRON FLOOR DRAIN BODY AND COLLAR, 3" THREADED DRAIN OUTLET WITH 3" DEEP SEAL P-TRAP, 1/2" TRAP-SEAL PRIMER CONNECTION WITH PRESSURE ACTIVATED TRAP PRIMER VALVE.

TP:
TRAP PRIMER - ZURN Z-1022 SANI-GUARD; CONNECT TO CW WITH VALVE, EXTEND TRAP PRIMER TO FLOOR DRAIN AS REQUIRED. 1/2" CW.

FCO:
FLOOR CLEANOUT - ZURN ZN1400-K; CAST-IRON ADJUSTABLE HOUSING FLOOR CLEANOUT; RAISED, TAPERED THREAD BRONZE CLOSURE PLUG, NEOPRENE RUBBER GASKET, NICKEL-BRONZE ROUND SCORRIATED TOP COVER, INSIDE CAULK OUTLET, SAME SIZE AS CONNECTED DRAINAGE PIPING; ASME A112.36.2M.

WCO:
WALL CLEANOUT - ZURN Z1446; CAST-IRON CLEANOUT TEE; RECESSED, TAPERED THREAD BRONZE PLUG; STAINLESS STEEL OR CHROME-PLATED BRASS WALL ACCESS COVER PLATE, SAME SIZE AS CONNECTED DRAINAGE PIPING; ASME A112.36.2M.

GCO:
GRADE CLEANOUT - ZURN ZN1400-HD; CAST-IRON ADJUSTABLE HOUSING CLEANOUT FERRULE; RECESSED, TAPERED THREAD, BRONZE CLOSURE PLUG; NEOPRENE RUBBER GASKET; SAME SIZE AS CONNECTED DRAINAGE PIPING; INSTALL IN 24" X 24" X 12" DEEP CONCRETE PAD FLUSH WITH GRADE; ASME A112.36.2M. INSTALL END-OF-LINE CLEANOUT WITH LONG SWEEP ELBOW; INSTALL 2-WAY CLEANOUT WITH 2-WAY CLEANOUT FITTING.

HB:
HOSE BIBB - WOODFORD MODEL 24; WALL MOUNTED FAUCET, BRASS CONSTRUCTION, CHROME PLATED, 3/4" HOSE CONNECTION, INTEGRAL ANTI-SIPHON VACUUM BREAKER, ASSE 1011 COMPLIANT. 3/4" CW.

WHA:
WATER HAMMER ARRESTOR - ZURN SHOCKTROL, Z-1700. INSTALL AT HIGH END OF EACH BRANCH THAT CONTAINS QUICK-CLOSING OR FLUSH VALVES.

AAV:
AIR ADMITTANCE VALVE - OATEY NO. 39228, 6 DFU SURE-VENT CPVC AIR ADMITTANCE VALVE WITH WHITE 1-1/2" TUBULAR ADAPTER.

TD:
TRENCH DRAIN - ZURN ZF806, WIDE REVEAL FIBER REINFORCED POLYMER, OPEN AREA OF 18.57 SQ.IN PER FT.

PLUMBING FIXTURE SCHEDULE

FIXTURE MARK	FIXTURE DESCRIPTION	ROUGH-IN PIPE SIZES				WATER SUPPLY DURATION			MAKE	MODEL
		COLD WATER SUPPLY	HOT WATER SUPPLY	FIXTURE TRAP	FIXTURE DRAIN	COLD WATER	HOT WATER	DRAINAGE		
WC-1	WATER CLOSET, BARRIER FREE - FLOOR MOUNTED, 16-1/2" HIGH ELONGATED, 1-1/2" TOP SPRUD, BATTERY POWER, SENSOR ACTIVATED FLUSHOMETER, VITREOUS CHINA, 1.6 GPF.	3/4"	N/A	4"	4"	6	N/A	4	AMERICAN STANDARD; SLOAN	3043.102, 8111-1.28
UR-1	URINAL - WALL HUNG, BARRIER FREE - WASHOUT FLUSH ACTION; VITREOUS CHINA, 3/4" INLET SPRUD, 1.0 GPF, BATTERY POWER, SENSOR ACTIVATED FLUSHOMETER, MOUNT AT 15-1/4" AFF TO TOP OF FRONT RIM; PROVIDE ALL REQUIRED ACCESSORIES, INCLUDING WALL CARRIER, ETC. FOR COMPLETE INSTALLATION	3/4"	N/A	3"	3"	10	N/A	4	AMERICAN STANDARD; SLOAN	6501.010, 8111-1.28
LV-1	LAVATORY - BARRIER FREE - 20"X18" VITREOUS CHINA, WALL HUNG, 4" CENTERS, BATTERY POWER, SENSOR ACTIVATED CHROME FAUCET, ADA COMPLIANT, DECK MOUNTED, 1.2 GPM FLOW RESTRICTOR, GRID DRAIN ASSEMBLY; PROVIDE ALL REQUIRED ACCESSORIES, INCLUDING WALL CARRIER, THERMOSTATIC MIXING VALVE, ETC. FOR COMPLETE INSTALLATION.	1/2"	1/2"	1-1/4"	1-1/4"	0.5	0.5	1	AMERICAN STANDARD; SLOAN	9024; SF-2350
MS-1	MOP SINK - ONE PIECE MOLDED, HIGH IMPACT RESISTANT FIBERGLASS, 24"X36"X10", STAINLESS STEEL THRESHOLD, SERVICE SINK FAUCET WITH DUAL HANDLE FAUCET; PROVIDE WITH HOSE AND HOSE HOOK, MOP BRACKET.	3/4"	3/4"	3"	3"	2.25	2.25	2	MUSTEE	65M; 63.600A
S-1	SINK - STAINLESS STEEL SINGLE COMPARTMENT SINK, SELF RIMMING, 3 FAUCET HOLES; HI-ARC SWING SPOUT FAUCET, WING HANDLES, LK35 DUO STRAINER, AERATOR; PROVIDE STOPS, SUPPLIES, TRAP, ETC., TO MAKE A COMPLETE INSTALLATION.	1/2"	1/2"	1 1/2"	1 1/2"	1	1	2	ELKAY	DLR312210PD; LK-232-S
S-2	SINK - STAINLESS STEEL SINGLE COMPARTMENT SINK WITH WORKTALBE, SINGLE HOLW CONCEALED DECK MOUNT FAUCET WITH 44" FLEXIBLE HOSE, 1.2 GPM SPRAY HEAD, 2" LEVER HANDLES, STRAINER, AERATOR; PROVIDE STOPS, SUPPLIES, TRAP, ETC., TO MAKE A COMPLETE INSTALLATION.	1/2"	1/2"	1 1/2"	1 1/2"	1	1	2	ULINE; ELKAY	H-8967; LK543LC
EW-1	ADA ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION - BILEVEL WALL MOUNT WATERCOOLER, BARRIER FREE, SELF CONTAINED, EASY TOUCH CONTROLS ON FRONT, LEFT, AND RIGHT.	1/2"	NA	1 1/4"	2"	0.25	NA	0.5	ELKAY	LZSTL8WSSK
SH-1	SHOWER, BARRIER FREE - SHOWER SYSTEM WITH HAND SPRAY, PRESSURE-BALANCED MIXING VALVES WITH SINGLE LEVER HANDLE, INTEGRAL SERVICE STOPS, ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN, WALL MOUNT SHOWER WITH FLEXIBLE METAL HOSE, IN-LINE VACUUM BREAKER, 30" SLIDE BAR, ZURN SHOWER FLOOR DRAIN, POLISHED BRASS STRAINER, PVC BODY, FLOOR DRAIN LOCATION TO BE COORDINATED WITH GENERAL CONTRACTOR, STAINLESS STEEL GRAB BARS; PROVIDE TRAP, ETC., TO MAKE A COMPLETE INSTALLATION, ADA COMPLIANT SHOWERS; PROVIDE WITH PULL DOWN SHOWER SEAT/STAINLESS STEEL GRAB BARS.	1/2"	1/2"	2"	2"	3	3	2	SYMMONS TEMPTROL; ZURN	C-96-300-B30-V-X; FD-2254-S5-FB
IB-1	ICE MAKER BOX WITH ARRESTER - CPVC CONNECTION, ROUGH-IN AND MAKE COLD WATER CONNECTION, 4-0" A.F.F., WALL BOX W/ 3/8" ANGLE STOP.	1/2"	NA	NA	NA	0.25	NA	NA	GUY GREY	MB1HAAB
FI-1	FUR INTERCEPTOR - 50 GPM, LIQUID HOLDING CAPACITY OF 44 GALLONS, TWO INTERNAL STRAINING BAFES WITH 3/8" DIA. HOLES, 1/2" APART, INTERNAL DEEP SEAL TRAP AND HDPE INJECTION MOLDED, NON SKID, RECTANGULAR GASKET LID WITH SECURING LATCHES FOR INDOOR/OUTDOOR USE.	NA	NA	NA	3"	NA	NA	NA	MIFAB	LIL-60-FUR
WB-1	WASHER BOX - ROUGH-IN 4" DEEP BOX, MAKE HOT AND COLD WATER CONNECTION, 4-0" A.F.F., WALL BOX W/ TWO 1/4 TURN VALVES WITH WATER HAMMER ARRESTER, SOLDER CONNECTION.	3/4"	3/4"	1 1/2"	2"	3	3	2	WATER-TITE	W2700HA
BT-1	BATHING STATION - 62" PET DOG BATHING STATION W/RAMP, PROFESSIONAL STAINLESS STEEL DOG GROOMING TUB W/ SOAP BOX, FAUCET, RICH ACCESSORY, BATH TUB FOR LARGE, MEDIUM, SMALL PET, WASHING SINK FOR HOME.	3/4"	3/4"	2"	2"	3	3	2	VEOR	K1E01026

ELECTRIC WATER HEATER SCHEDULE

MARK	TYPE	STORAGE VOLUME	INPUT POWER (KW)	NUMBER OF ELEMENTS	TEMPERATURE RISE	TEMPERATURE SET POINT	ELECTRICAL DATA		MANUFACTURER	MODEL NUMBER	REMARKS
							VOLTAGE	PHASE			
EW-1	STANDARD STORAGE	80 GAL	9	3	70 °F	140°F	208V	3	AO SMITH	DRE-80-9	1 - 4

NOTES:
1 ELEMENTS ARE SIMULTANEOUS
2 PROVIDE AUXILIARY DRAIN PAN
3 PIPE RELIEF VALVE TO AUXILIARY DRAIN PAN AND ROUTE TO OUTSIDE.
4 PROVIDE MANUFACTURER SPECIFIED CLEARANCE.

CIRCULATOR PUMP SCHEDULE

MARK	CAPACITY	TOTAL HEAD (FEET)	SHUTOFF HEAD (FEET)	MOTOR POWER (WATTS)	ELECTRICAL DATA		MANUFACTURER	MODEL NUMBER	NOTES
					VOLTAGE	PHASE			
CP-1	2 GPM	18	9	44	120V	1	TACO	006e3	1

NOTES:
1 PROVIDE WITH AQUASTAT AND/OR TIMER



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Project 2020606

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TAMPA, FL 33619

PLUMBING SCHEDULES

#	ISSUED FOR	DATE
1	PERMIT SET	01/11/2024
	ADDENDUM #2	08/02/2024

DRAWN BY: KM
REVIEW BY: NPS

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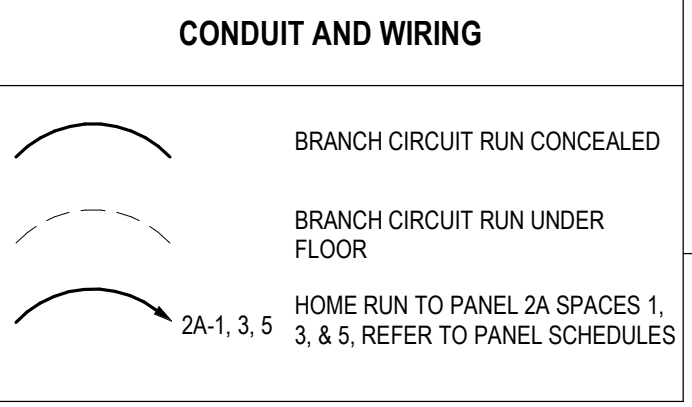
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ELECTRICAL ABBREVIATIONS LIST			
1P	1 POLE (2P, 3P, 4P, ETC.)	MCB	MAIN CIRCUIT BREAKER
A	AMPERE	MCC	MOTOR CONTROL CENTER
AC	ABOVE COUNTER	MDC	MAIN DISTRIBUTION CENTER
ACLG	ABOVE CEILING	MDP	MAIN DISTRIBUTION PANEL
ADO	AUTOMATIC DOOR OPENER	MFR	MANUFACTURER
AF	AMP FRAME	MFS	MAIN FUSED DISCONNECT SW
AFB	ABOVE FINISHED FLOOR	MH	MANHOLE
AFG	ABOVE FINISHED GRADE	MIC	MICROPHONE
AFI	ARC FAULT CIRCUIT INTERRUPTER	MIN	MINIMUM
AHU	AIR HANDLING UNIT	MISC	MISCELLANEOUS
AL	ALUMINUM	MLO	MAIN LUGS ONLY
ALT	ALTERNATE	MMS	MANUAL MOTOR STARTER
AMP	AMPERE	MOA	MULTIOUTLET ASSEMBLY
AMPL	AMPLIFIER	MSP	MOTOR STARTER PANELBOARD
ANNU	ANNUNCIATOR	MSBD	MAIN SWITCHBOARD
APPROX	APPROXIMATELY	MT	EMPTY CONDUIT
AQ-STAT	AQUASTAT	MTS	MANUAL TRANSFER SWITCH
ARCH	ARCHITECT, ARCHITECTURAL	MTR	MOTOR, MOTORIZED
AS	AMP SWITCH	N/C	NORMALLY CLOSED
AT	AMP TRIP	NEC	NATIONAL ELECTRICAL CODE
ATS	AUTOMATIC TRANSFER SWITCH	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
AUX	AUXILIARY	NFDS	NOT-FUSED SAFETY DISCONNECT SWITCH
AV	AUDIO VISUAL	NIC	NOT IN CONTRACT
AWG	AMERICAN WIRE GAUGE	NL	NIGHT LIGHT
BATT	BATTERY	N.O.	NORMALLY OPEN
BD	BOARD	NPF	NORMAL POWER FACTOR
BLDG	BUILDING	NTS	NOT TO SCALE
BMS	BUILDING MANAGEMENT SYSTEM	OH	OVERHEAD
C	CONDUIT	OL	OVERLOADS
CAB	CABINET	PA	PUBLIC ADDRESS
CAT	CATALOG	PB	PULL BOX OR PUSHBUTTON
CB	CABLE TELEVISION	PE	PNEUMATIC ELECTRIC
CB	CIRCUIT BREAKER	PED	PEDESTAL
CCTV	CLOSED CIRCUIT TELEVISION	PF	POWER FACTOR
CKT	CIRCUIT	PH	PHASE
CLG	CEILING	PIV	POST INDICATING VALVE
COMB	COMBINATION	PNL	PANEL
CMPR	COMPRESSOR	PP	POWER POLE
COAN	CONNECTION	PR	PAIR
CONST	CONSTRUCTION	PR	PRIMARY
CONT	CONTINUATION OR CONTINUOUS	PROJ	PROJECTION
CONTR	CONTRACTOR	PRV	POWER ROOF VENTILATOR
CONV	CONVECTOR	PT	POTENTIAL TRANSFORMER
CP	CIRCULATING PUMP	PVC	POLYVINYL CHLORIDE (CONDUIT)
CRT	CATHODE RAY TUBE	PWR	POWER
CT	CURRENT TRANSFORMER	QUAN	QUANTITY
CTR	CENTER	RCPT	RECEPTACLE
CU	COPPER	REQ	REQUIRED
DCP	DOMESTIC WATER CIRCULATING PUMP	REM	ROOM
DEPT	DEPARTMENT	RSC	RIGID STEEL CONDUIT
DET	DETAIL	RTU	ROOF TOP UNIT
DIA	DIAMETER	SC	SURFACE CONDUIT
DISC	DISCONNECT	SEC	SECONDARY
DIST	DISTRIBUTION	SHT	SHEET
DN	DOWN	SIM	SIMILAR
DPR	DAMPENER	SIN	SOLID NEUTRAL
DS	SAFETY DISCONNECT SWITCH	SPEC	SPECIFICATION
DT	DOUBLE THROW	SPKR	SPEAKER
DWG	DRAWING	SP	SPARE
EC	ELECTRICAL CONTRACTOR	SR	SURFACE RACEWAY
ELEC	ELECTRIC, ELECTRICAL	SS	STAINLESS STEEL
ELEV	ELEVATOR	SSW	SELECTOR SWITCH
ELU	EMERGENCY LIGHTING UNIT	SIS	STOP/START PUSHBUTTONS
EM	EMERGENCY	STA	STATION
EMS	ENERGY MANAGEMENT SYSTEM	STD	STANDARD
EMT	ELECTRICAL METALLIC TUBING	SURF	SURFACE MOUNTED
EP	ELECTRIC PNEUMATIC EQUIPMENT	SW	SWITCH
EQUIP	EQUIPMENT	SWB	SWITCHBOARD
EWC	ELECTRIC WATER COOLER	SWD	SYMMETRICAL SYSTEM
EXIST	EXISTING	SYST	SYSTEM
EXH	EXHAUST	TEL	TELEPHONE
EXP	EXPLOSION PROOF	TEL DATA	TELEPHONE DATA
FA	FIRE ALARM	TERM	TERMINAL
FABP	FIRE ALARM BOOSTER POWER SUPPLY PANEL	TL	TAMPER RESISTANT
FACP	FIRE ALARM CONTROL PANEL	TR	THERMOSTAT
FCU	FAN COIL UNIT	T-STAT	THERMOSTAT
FIXT	FIXTURE	TTC	TELEPHONE TERMINAL CABINET
FLR	FLOOR	TV	TELEVISION
FLUOR	FLUORESCENT	TYTC	TELEVISION TERMINAL CABINET
FU	FUSE	TYP	TYPICAL
FUSD	FUSED SAFETY DISCONNECT SWITCH	UC	UNDER COUNTER
GA	GAUGE	UE	UNDERGROUND ELECTRICAL
GAL	GALLON	UG	UNDERGROUND
GALV	GALVANIZED	UH	UNIT HEATER
GC	GENERAL CONTRACTOR	UT	UNDERGROUND TELEPHONE
GEN	GENERATOR	UTIL	UTILITY
GFI	GROUND FAULT CIRCUIT INTERRUPTER	UV	ULTRAVIOLET
GFP	GROUND FAULT PROTECTOR	V	VOLT
GND	GROUND	VA	VOLT-AMPERES
GRS	GALVANIZED RIGID STEEL (CONDUIT)	VDT	VIDEO DISPLAY TERMINAL
GYP	GYPSPUM BOARD	VERT	VERTICAL
HOA	HANDS-OFF-AUTOMATIC SWITCH	VFD	VARIABLE FREQUENCY DRIVE
HORIZ	HORIZONTAL	VOL	VOLUME
HORIZ	HORIZONTAL	W	WATT
HP	HORSEPOWER	W	WITH
HPF	HIGH POWER FACTOR	WG	WIRE GUARD
HT	HEIGHT	WH	WATER HEATER
HTG	HEATING	WIO	WITHOUT
HTR	HEATER	WP	WEATHERPROOF
HV	HIGH VOLTAGE	XFMR	TRANSFORMER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	XFR	TRANSFER
IC	INTERRUPTING CAPACITY		
IG	ISOLATED GROUND		
IMC	INTERMEDIATE METAL CONDUIT		
INCAND	INCANDESCENT	∠	ANGLE
IR	INFRARED	AT	AT
IW	INTERLOCK WITH	▲	DELTA
J-BOX	JUNCTION BOX	'	FEET
KV	KILOVOLT	"	INCHES
KVA	KILOVOLT-AMPERE	#	NUMBER
KVAR	KILOVOLT-AMPERE REACTIVE	Ø	PHASE
KW	KILOWATT	C	CENTER LINE
KWH	KILOWATT HOUR	P	PLATE
LOC	LOCATE OR LOCATION		
LT	LIGHT		
LTG	LIGHTING		
LTNG	LIGHTNING		
LV	LOW VOLTAGE		
MAX	MAXIMUM		
MAG.S	MAGNETIC STARTER		
MC	MOMENTARY CONTACT		
MC	MECHANICAL CONTRACTOR		

ELECTRICAL SYMBOL LEGEND (MOUNTING HEIGH TO CENTER LINE OF BOX, UNLESS NOTED OTHERWISE)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	2X4 FIXTURE - RECESSED, SURFACE, OR PENDANT MOUNTED - TYPE AS SPECIFIED		SIMPLEX RECEPTACLE (18" AFF, UON)
	2X4 CRITICAL BRANCH FIXTURE - RECESSED, SURFACE, OR PENDANT MOUNTED - TYPE AS SPECIFIED		DUPLEX RECEPTACLE (18" AFF, UON)
	2X4 LIFE SAFETY BRANCH FIXTURE - RECESSED, SURFACE, OR PENDANT MOUNTED - TYPE AS SPECIFIED		DUPLEX RECEPTACLE 6" ABOVE COUNTER BACKSPASH OR 48" AFF
	2X2 FIXTURE - RECESSED, SURFACE, OR PENDANT MOUNTED - TYPE AS SPECIFIED		DOUBLE DUPLEX RECEPTACLE (18" AFF, UON)
	2X2 CRITICAL BRANCH FIXTURE - RECESSED, SURFACE, OR PENDANT MOUNTED - TYPE AS SPECIFIED		DOUBLE DUPLEX RECEPTACLE 6" ABOVE COUNTER BACKSPASH OR 48" AFF
	2X2 LIFE SAFETY BRANCH FIXTURE - RECESSED, SURFACE, OR PENDANT MOUNTED - TYPE AS SPECIFIED		TOP SWITCHED OUTLET, AS NOTED ON PLANS
	1X4 FIXTURE - RECESSED, SURFACE, OR PENDANT MOUNTED - TYPE AS SPECIFIED		TOP AND BOTTOM SWITCHED OUTLET, AS NOTED ON PLANS
	1X4 CRITICAL BRANCH FIXTURE - RECESSED, SURFACE, OR PENDANT MOUNTED - TYPE AS SPECIFIED		USB RECEPTACLE COMBINATION
	1X4 LIFE SAFETY BRANCH FIXTURE - RECESSED, SURFACE, OR PENDANT MOUNTED - TYPE AS SPECIFIED		DUPLEX RECEPTACLE - FLOOR MOUNTED
	4" LINEAR INDUSTRIAL STRIP FIXTURE - TYPE AS SPECIFIED		DOUBLE DUPLEX RECEPTACLE - FLOOR MOUNTED
	4" CRITICAL BRANCH LINEAR INDUSTRIAL STRIP FIXTURE - TYPE AS SPECIFIED		DUPLEX RECEPTACLE - CEILING MOUNTED
	4" LIFE SAFETY BRANCH LINEAR INDUSTRIAL STRIP FIXTURE - TYPE AS SPECIFIED		RANGE RECEPTACLE, 4" AFF TO CENTER, 120/240V, 1 PHASE, 3 WIRE PLUS GROUND, 50 AMPS NEMA 14-50.
	RECESSED CAN LIGHT - TYPE AS SPECIFIED		DRYER RECEPTACLE, 48" AFF TO CENTER, 120/240V, 1 PHASE, 3 WIRE PLUS GROUND, 30 AMPS NEMA 14-30.
	RECESSED CAN LIGHT - TYPE AS SPECIFIED		RETRACTABLE CORD REEL WITH DUPLEX NEMA 5-20 RECEPTACLE, PROVIDE WITH 30' OF RETRACTABLE S.O. CORD.
	LIGHTING FIXTURE - PENDANT MOUNTED - TYPE AS SPECIFIED		RETRACTABLE CORD REEL WITH DOUBLE DUPLEX NEMA 5-20 RECEPTACLES PROVIDE WITH 30' OF RETRACTABLE S.O. CORD.
	SPECIAL PURPOSE RECEPTACLE, NEMA TYPE AS NOTED ON PLANS (18" AFF, UON)		FIRE ALARM CONTROL PANEL SURFACE OR RECESSED
	CRITICAL BRANCH LIGHTING FIXTURE - PENDANT MOUNTED - TYPE AS SPECIFIED		
	WALL SCONCE LIGHTING FIXTURE - SURFACE MOUNTED - TYPE AS SPECIFIED		
	CRITICAL BRANCH WALL SCONCE LIGHTING FIXTURE - SURFACE MOUNTED - TYPE AS SPECIFIED		
	EXTERIOR POLE MOUNTED FIXTURE - TYPE AS SPECIFIED		
	EXTERIOR POST TOP MOUNTED FIXTURE - TYPE AS SPECIFIED		
	SELF CONTAINED EMERGENCY LIGHTING UNIT - TYPE AS SPECIFIED		
	COMBINATION EXIT SIGN & SELF CONTAINED EMERGENCY LIGHTING UNIT - TYPE AS SPECIFIED		
	EXIT LIGHT, CEILING-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		
	EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION		
	SINGLE-POLE, LOW VOLTAGE, 3-WAY AND 4-WAY SWITCHES (48" AFF)		
	LOW VOLTAGE SWITCH (48" AFF) REFER TO SHEET E-702 FOR CONTROL TYPE.		
	FAN SWITCH (48" AFF)		
	LOW VOLTAGE SWITCH, WALL MOUNTED OCCUPANCY SENSOR SWITCH; REFER TO SHEET E-702 FOR CONTROL TYPE.		
	CEILING MOUNTED OCCUPANCY/VACANCY SENSOR, DUAL TECHNOLOGY (PASSIVE INFRARED/ULTRASONIC)		
	DAYLIGHT SENSOR		
	ROOM CONTROLLER (REFER TO PLANS)		
	LIGHTING RELAY (UL924 GENERATOR TRANSFER DEVICE)		
	TIME CLOCK (REFER TO PLANS)		



LIGHTING CONTROL NOTES			
1.	CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFICATION OF ALL RATED WALLS, CEILINGS, SLABS, AND THEIR SPECIFIED RATING ON THE ARCHITECTURAL DRAWINGS. ALL DEVICES AND MATERIALS SHALL MEET THE UL RATING OF THE RATED WALLS, CEILINGS AND SLABS ASSEMBLY. CONTRACTOR SHALL PROVIDE AN ASSEMBLY, INSTALLED IN ACCORDANCE WITH UL WHERE NECESSARY.		DATA OUTLET (18" AFF U.O.N.)
2.	CONTRACTOR SHALL COORDINATE ANY WALL MOUNTED LIGHT FIXTURE WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.		ABOVE COUNTER DATA OUTLET (6" ABOVE COUNTER BACKSPASH OR 48" AFF)
3.	ALL OCCUPANCY SENSOR CONTROLLED LOADS SHALL TURN OFF WITHIN 20 MINUTES OF THE OCCUPANT LEAVING THE ROOM.		DATA OUTLET - CEILING MOUNTED
4.	WHERE MULTIPLE SWITCHES ARE SHOWN AT THE SAME LOCATION, THEY SHALL BE GANGED TOGETHER WITH A COMMON GANG PLATE.		DATA OUTLET - RECESSED FLOOR BOX OR POKE THRU
5.	ALL EXIT LIGHTS AND EMERGENCY BATTERY PACKS SHALL BE CONNECTED TO UNSWITCHED LEG OF THE LOCAL LIGHTING BRANCH CIRCUIT.		CABLE TV OUTLET (18" AFF U.O.N.); PROVIDE 1 F-TYPE CONNECTOR
6.	ALL LIGHTING CONTROLS SHALL BE IN ACCORDANCE WITH 2023 FLORIDA BUILDING CODE, ENERGY CONSERVATION.		COMMUNICATION CABLE TRAY MOUNTED ABOVE SUSPENDED CEILING - SIZE AS NOTED ON PLANS
7.	PROVIDE DUAL TECH OCCUPANCY/VACANCY SENSORS IN ALL OFFICES, CORRIDORS, OPEN OFFICES, LOUNGES/BREAKROOMS, RESTROOMS, STORAGE ROOMS, AND ALL OTHER SPACES 300 SQUARE FEET OR LESS ENCLOSED BY FLOOR TO CEILING HEIGHT PARTITIONS. THIS EXCLUDES MECHANICAL ROOMS, ELECTRICAL ROOMS, TELECOMMUNICATION SPACES, AND OTHER AREA WHERE THE AUTOMATIC SHUT OFF OF LIGHTS WILL CAUSE A DANGER TO LIFE SAFETY.		8" CEILING MOUNTED PAGING SPEAKER; PROVIDED WITH BAFFLE, GRILLE AND MATCHING TRANSFORMER
8.	WHERE VACANCY SENSORS ARE REQUIRED, LIGHTS SHALL BE MANUAL ON, AUTOMATIC OFF. LIGHTS SHALL TURN OFF AUTOMATICALLY WITHIN 20 MINUTES OF THE SPACE BECOMING VACANT.		8" WALL MOUNTED PAGING SPEAKER; PROVIDED WITH BAFFLE, GRILLE AND MATCHING TRANSFORMER
9.	WHERE OCCUPANCY SENSORS ARE REQUIRED, LIGHTS SHALL TURN ON TO FULL AUTOMATICALLY, TURN OFF AUTOMATICALLY WITHIN 20 MINUTES OF THE SPACE BECOMING UNOCCUPIED, AND SHALL HAVE A SWITCH FOR MANUAL OVERRIDE.		CARD READER, FLUSHED MOUNTED AT 42" AFF.
10.	CONTRACTOR SHALL PROVIDE QUANTITY OF SENSORS REQUIRED WITH PROPER COVERAGE PATTERN TO ACHIEVE REQUIRED LIGHTING CONTROL WITHIN THE SPACE.		DOOR CONTACT (MAGNETIC)
11.	CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FROM THE CONTROLS MANUFACTURER'S REPRESENTATIVE SHOWING LAYOUT, QUANTITY, COVERAGE PATTERNS, AND WIRING DIAGRAM OF COMPLETE SYSTEM.		ELECTRIC DOOR STRIKE
12.	FOR CLARITY, ONLY VACANCY (VS) OR OCCUPANCY (OC) ARE SHOWN IN SPACES REQUIRING THAT MODE OF CONTROL.		MOTION DETECTOR
13.	PROVIDE LOW VOLTAGE OVERRIDE DIMMING SWITCHES IN ALL SPACES REQUIRING VACANCY/OCCUPANCY SENSORS WITH CONTROL FUNCTION AS OUTLINED.		PUSH PLATE
14.	PROVIDE ROOM CONTROLLERS AS REQUIRED TO INTERFACE ALL LIGHTS, SWITCHES, SENSORS, ETC. IN ALL SPACES SHOWN TO RECEIVE AUTOMATIC LIGHTING CONTROLS.		CCTV CAMERA - FIXED
15.	EXTERIOR LIGHTING SHALL BE CONTROLLED BY PHOTOCELL ON/TIME CLOCK OFF. PROVIDE TIME CLOCK FOR CONTROLS. COORDINATE TIME OF DAY SCHEDULING WITH STATION REPRESENTATIVE.		CCTV CAMERA - PAN, TILT, ZOOM 360
16.	LIGHTING CONTROL SYSTEM SHALL BE A STAND ALONE NON-NETWORKED SYSTEM AS MANUFACTURED BY WATTSOPPER. ALTERNATE APPROVED MANUFACTURERS ARE GREENGATE, ACUIY, AND HUBBELL.		

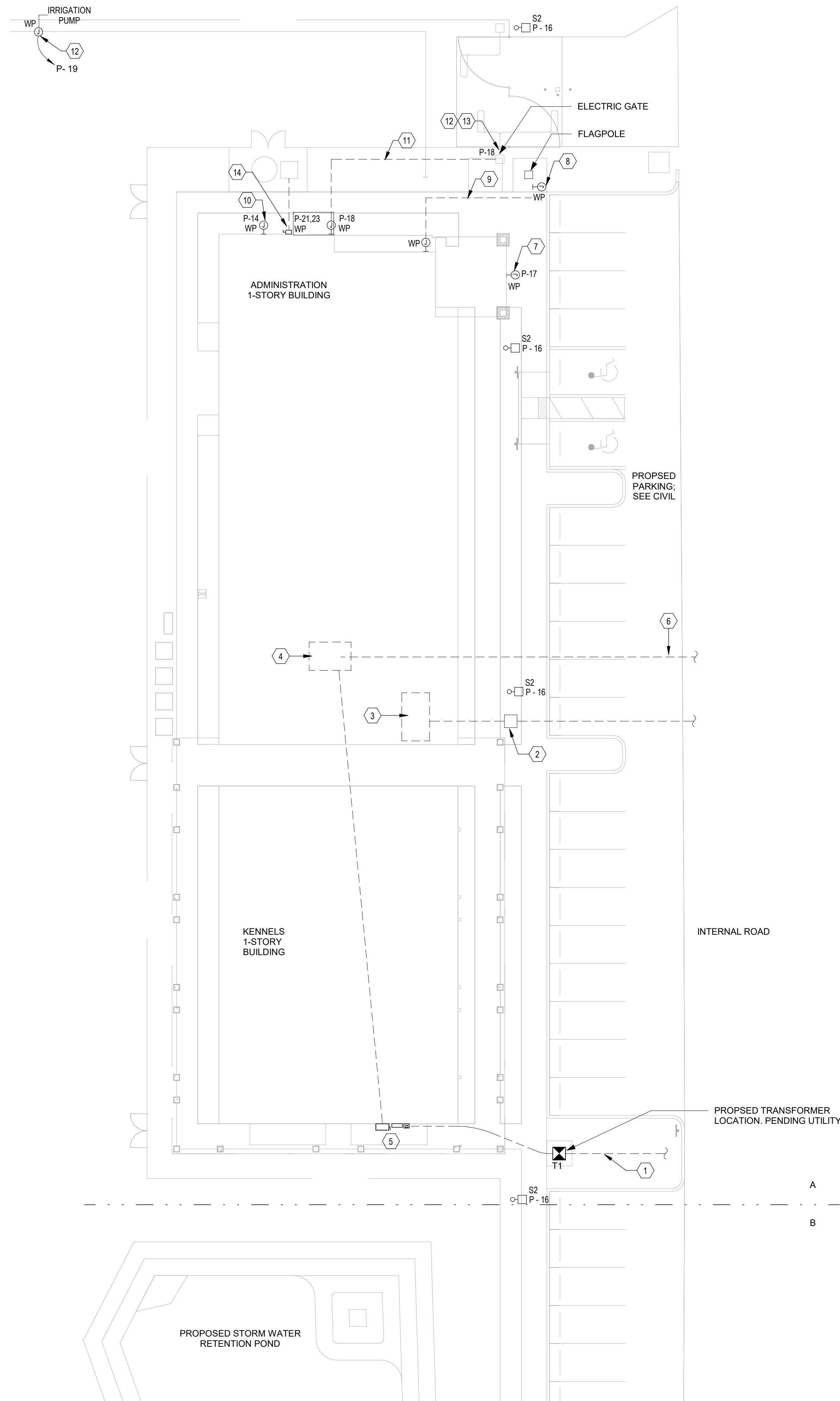
FIRE ALARM SYMBOLS			
	MANUAL PULL STATION (46" AFF)		BELL/STROBE LIGHT COMBINATION (80" AFF)
	STROBE LIGHT (80" AFF)		HORN (80" AFF)
	HORN/STROBE LIGHT COMBINATION (80" AFF)		PROGRAM BELL (80" AFF)
	SPEAKER (80" AFF)		CHIME/FLASH COMBINATION (80" AFF)
	SPEAKER/STROBE COMBINATION (80" AFF)		SPEAKER (80" AFF)
	STANDALONE SMOKE ALARM - WALL MOUNTED, CEILING MOUNTED		SPEAKER/STROBE COMBINATION (80" AFF)
	STANDALONE COMBO SMOKE/CARBON MONOXIDE ALARM - WALL MOUNTED, CEILING MOUNTED		STANDALONE SMOKE ALARM - WALL MOUNTED, CEILING MOUNTED
	SMOKE DETECTOR TIED TO FACP - WALL MOUNTED; CEILING MOUNTED		HEAT DETECTOR TIED TO FACP - WALL MOUNTED; CEILING MOUNTED
	COMBO SMOKE/CARBON MONOXIDE DETECTOR TIED TO FACP - WALL MOUNTED; CEILING MOUNTED		DUCT DETECTOR
	TAMPER SWITCH		FLOW SWITCH
	MAGNETIC DOOR HOLDER (72" AFF)		

PROJECT COORDINATION NOTE

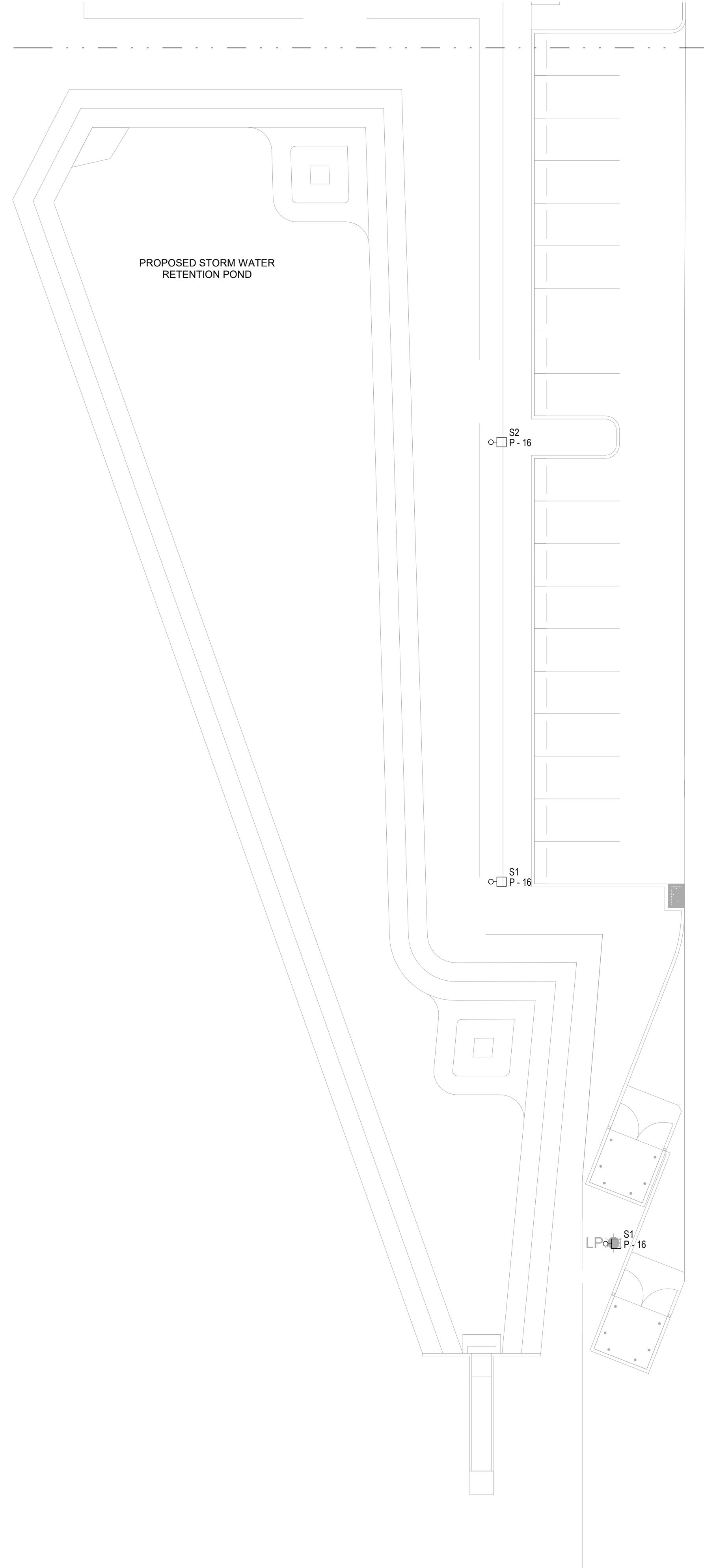
- FIRE ALARM DEVICES ARE SHOWN FOR REFERENCE ONLY. FULLY FUNCTIONAL FIRE ALARM SYSTEM TO INCLUDE FIRE CONTROL PANELS, DIALERS, EXPANDERS MODULES, ANNUNCIATION AND NOTIFICATION DEVICES, WIRING, PROGRAMMING, TESTING, WARRANTY AND COMMISSIONING SHALL BE INCLUDED IN THIS PROJECT BID. SIGNALS AND SEALED DRAWING, DOCUMENTS AND SEPARATE PERMITTING SHALL BE PROVIDED BY OTHERS.
- SITE PHOTO METRIC PLAN WAS SUBMITTED IN SEPARATE PERMIT. SHOWN FOR REFERENCE ONLY.
- PRIOR TO PASSING FINAL INSPECTION, A THIRD PARTY PROFESSIONAL ENGINEER SHALL PROVIDE EVIDENCE THAT THE SITE LIGHTS AND ASSOCIATED CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT SYSTEM IS IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS.
- VERIFY SYSTEM IS IN COMPLIANCE WITH THE HILLSBOROUGH COUNTY LAND DEVELOPMENT CODE PART 6.10.00 AND ACCORDANCE WITH FLORIDA BUILDING CODE-ENERGY CONSERVATION 8TH EDITION (2023).
- WHILE EFFORTS WERE MADE TO COORDINATE A FAULT CURRENT LETTER ISSUED BY THE UTILITY FOR THIS PROJECT, THE STAGE WHERE THE SITE DEVELOPMENT WAS AT THE TIME OF THE DESIGN, PROVE UNFRUITFUL TO ACHIEVE. AS SUCH, THE GENERAL CONTRACTOR SHALL COORDINATE, AT HISHERS EARLIEST CONVENIENCE, WITH THE LOCAL POWER UTILITY FOR A FINAL TRANSFORMER SELECTION AND THE ISSUANCE OF THE FAULT CURRENT LETTER BY TECO. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT THE LETTER IS RECEIVED BY THE BUILDING OFFICIALS AND RESPONSIBLE THAT THIS REQUIREMENT IS COMPLETELY FULFILLED.

GENERAL PROJECT NOTES			
1.	THIS IS A COMPLETE LIST OF ELECTRICAL SYMBOLS AND ABBREVIATIONS FOR REFERENCE ONLY. SYMBOLS SHOWN ON THIS DRAWING MAY NOT APPEAR ON THE FOLLOWING DRAWINGS.		
2.	THE CONTRACTOR SHALL COORDINATE ALL REQUIRED SHUTDOWNS ON EXISTING UTILITIES WITH OWNER REPRESENTATIVES IN ORDER TO MINIMIZE IMPACT TO OTHER AREAS.		
3.	PERFORM ALL WORK IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, REGULATIONS, AND STANDARDS ADOPTED BY THE AUTHORITY HAVING JURISDICTION. IF CONFLICTS EXIST BETWEEN THESE ENGINEERING DOCUMENTS AND CODES, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.		
4.	ALL CONSTRUCTION WORK SHALL ALSO MEET THE FOLLOWING CODE REQUIREMENTS: A. FLORIDA BUILDING CODE, BUILDING, 8TH EDITION (2023) B. FLORIDA BUILDING CODE, ENERGY CONSERVATION, 8TH EDITION (2023) C. FLORIDA FIRE PREVENTION CODE, 8TH EDITION (2023) D. NFPA 101-2021, THE LIFE SAFETY CODE E. NFPA 70-2020, NATIONAL ELECTRICAL CODE F. NFPA 72-2019, NATIONAL FIRE ALARM CODE G. NFPA 150-2019, STANDARD ON FIRE AND LIFE SAFETY IN ANIMAL HOUSING FACILITIES.		
5.	THE ELECTRICAL DRAWINGS ARE SCHEMATIC IN NATURE. BEFORE STARTING THE WORK THE CONTRACTOR SHALL REVIEW ALL OTHER DISCIPLINE DRAWINGS AND VERIFY FIELD CONDITIONS AND SHALL MAKE ANY REQUIRED MINOR ADJUSTMENTS WITHOUT EXTRA COST TO THE OWNER. ANY MAJOR DISCREPANCIES FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.		
6.	ALL WIRING SHALL BE IN CONDUIT. MINIMUM CONDUIT SIZE SHALL BE 3/4" MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG. ALL NEW CIRCUITS SHALL BE PROVIDED WITH AN INDIVIDUAL NEUTRAL AND GROUNDING CONDUCTOR WITH THE PHASE CONDUCTOR.		
7.	ALL CONDUITS INSTALLED INTERIOR SHALL BE EMT. ALL CONDUITS INSTALLED EXTERIOR UNDERGROUND SHALL BE PVC SCHEDULED 40. ALL CONDUITS INSTALLED EXTERIOR AND EXPOSED SHALL BE RGS.		
8.	CONDUCTORS #10 AND SMALLER SHALL BE SOLID COPPER. CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER. UNLESS NOTED OTHERWISE, CONDUCTORS INSULATION SHALL BE DUAL RATED AT THHN/THWN.		
9.	ALL DEVICES, EQUIPMENT MATERIAL AND LABOR SHALL BE PROVIDED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.		
10.	ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE MOUNTED AS PER EQUIPMENT AND DEVICE MANUFACTURER RECOMMENDATIONS.		
11.	CONTRACTOR SHALL PROVIDE SUBMITTALS TO ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL OF ALL ELECTRICAL EQUIPMENT AND DEVICES DESCRIBED IN THE SUBMITTAL REGISTER. SUBMITTALS SHALL INCLUDE CUT SHEETS, DIMENSIONS, WIRING DIAGRAMS, ACCESSORIES, OPERATION MANUALS, AND ALL NECESSARY INFORMATION FOR REVIEWER TO MAKE A SOUND EVALUATION.		
12.	PROVIDE STARTUP OF ALL ELECTRICAL SYSTEMS AND COORDINATE WITH ARCHITECT/ENGINEER FOR OWNER STARTUP/WITNESSING.		
13.	PROVIDED LAMINATED PLASTIC NAMEPLATES FOR EACH EQUIPMENT ENCLOSURE. EACH NAMEPLATE IDENTIFY EQUIPMENT FUNCTION, PANELBOARD CONNECTED AND CIRCUIT NUMBER. NAMEPLATE SHALL BE MELAMINE PLASTIC (0.125 INCHES THICK), WHITE LETTERS ON BLACK BACKGROUND. MINIMUM SIZE OF LETTERS SHALL BE 2.5 INCHES. IN ADDITION TO EQUIPMENT TAGGING, CONTRACTOR SHALL PROVIDE ARC-FLASH WARNING AND AVAILABLE FAULT CURRENT AT THE TIME OF INSTALLATION AND CALCULATION LABELS FOR PANELBOARDS, OTHER THAN DWELLING UNIT LOAD CENTERS, IN ACCORDANCE WITH NEC 110.		
14.	PROVIDE COMPUTER PRINTED ON WHITE WRAPAROUND PAPER WITH CLEAR PLASTIC PROTECTION TAIL. FOR ALL WIRE MARKERS, MARKER SHALL STATE PANELBOARD NAME AND CIRCUIT NUMBER ON ALL WIRES IN JUNCTION/PULL BOXES AND IN EQUIPMENT TERMINAL BOXES.		
15.	PROVIDE PUNCHED TAPE LABELS ON ALL WIRING DEVICES FOR IDENTIFICATION. SHALL BE 1/2" BLACK TAPE WITH WHITE RAISED LETTERS. TAPE LABELS SHALL STATE PANELBOARD NAME AND CIRCUIT NUMBER.		
16.	PROVIDE DIRECTORIES ON ALL PANELBOARDS. ALL LOADS SHALL BE BALANCED TO WITHIN 10%.		
17.	CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE SET OF RECORD DRAWINGS TO THE OWNER AT THE END OF THE CONSTRUCTION.		
18.	ALL MATERIALS AND EQUIPMENT TO BE INSTALLED SHALL BE NEW AND FREE OF DEFECTS. ALL ELECTRICAL EQUIPMENT SHALL COMPLY WITH NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) STANDARDS AND SHALL BE UL LABELED. ALL ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN A WORKMANLIKE MANNER.		
19.	PRIOR TO PASSING FINAL INSPECTION, A THIRD PARTY CONTRACTOR SHALL PROVIDE EVIDENCE THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED ADJUSTED, PROGRAMMED IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS. FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH FLORIDA BUILDING CODE - ENERGY CONSERVATION 8TH EDITION (2023) - SECTIONS C408.3.1.1 AND C408.3.1.2 FOR THE APPLICABLE CONTROL TYPE.		
20.	CONTRACTOR SHALL PROVIDE RECORD DOCUMENTS, DRAWINGS AND MANUALS TO OWNER WITHIN 30 DAYS AFTER SYSTEM ACCEPTANCE PER FLORIDA BUILDING CODE - ENERGY CONSERVATION 8TH EDITION (2023) - SECTIONS C405.4.4.		
21.	PANELBOARDS SHALL BE SUPPLIED WITH BOLT-ON CIRCUIT BREAKERS. ALL BUSBARS, PHASE, NEUTRAL, GROUND IN PANELBOARDS SHALL BE TIN-PLATED ALUMINUM.		

ELECTRICAL SHEET INDEX			
SHEET	DESCRIPTION		
E-000	ELECTRICAL LEGENDS & ABBREVIATIONS		
E-001	ELECTRICAL SITE PLAN		
E-002	ELECTRICAL SITE PHOTOMETRIC PLAN		
E-101			



1 ELECTRICAL SITE PLAN A
1/16" = 1'-0"



2 ELECTRICAL SITE PLAN B
1/16" = 1'-0"

- ### GENERAL SITE NOTES
- ELECTRICAL CONTRACTOR SHALL CONTACT LOCAL UTILITY UNDERGROUND SERVICE COMPANY PRIOR TO DIGGING ON THIS SITE.
 - THESE DESIGN DOCUMENTS DO NOT COVER ANY EXISTING UTILITIES RELOCATION THAT MIGHT BE REQUIRED FOR THE DEVELOPMENT OF THIS PROJECT. ANY EXISTING UTILITY SHALL BE RELOCATED BY OTHERS UNDER A DIFFERENT PERMIT WITH DESIGN DOCUMENTS PROVIDED AND SIGNED & SEALED. ALL DIGGING AROUND EXISTING UNDERGROUND UTILITIES SHALL BE PERFORMED BY HAND.
 - ELECTRICAL CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO DISTURBING ANY EXISTING INSTALLATION.
 - CONTRACTOR SHALL COORDINATE WITH STRUCTURAL DRAWINGS FOR CONDUIT OPENING IN STRUCTURAL SUPPORT.
 - REFER TO SINGLE LINE RISER DIAGRAM FOR ADDITIONAL INFORMATION.
 - ALL EXTERIOR DISCONNECTS, JUNCTION BOX AND ALL OTHER POWER DEVICES SHALL BE NEMA 3R OR WP RATED.
 - UNDERGROUND ROUTING SHOWN FOR DIAGRAMMATICAL PURPOSES ONLY. COORDINATE ACTUAL INSTALLATION OF CONDUITS WITH FIELD CONDITIONS AND OTHER UTILITIES.

- ### KEYNOTES
- PROPOSED LOCATION OF NEW UTILITY SERVICE TRANSFORMER 120/208V, 3 PHASE SECONDARY. REFER TO RISER FOR MORE INFORMATION. FINAL LOCATION SHALL BE CONFIRMED & COORDINATED BY CIVIL.
 - IN GROUND PULL BOX/Vault FOR COMMUNICATIONS PULLS AT SERVICE ENTRANCE. PROVIDE A SEPARATE BOX FOR EACH COMMUNICATIONS PROVIDER.
 - LOCATION OF MDF ROOM.
 - LOCATION OF ELECTRICAL ROOM.
 - APPROXIMATE LOCATION OF ELECTRICAL SERVICE ENTRANCE EQUIPMENT.
 - PROVIDE (4) SPARE 1 INCH CONDUITS FOR FUTURE SITE ELEMENTS USE FROM MAIN ELECTRICAL ROOM. IF CONDUIT STUB UP LOCATION IS NOT PROVIDED BY OWNERSHIP, ASSUME 500 FEET LINEAR UNDERGROUND CONDUIT RUNS (EACH CONDUIT) AS BASIS OF BID.
 - PROVIDE WEATHERPROOF JUNCTION BOX FOR HCSO SIGNAGE. VERIFY HEIGHT WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION.
 - PROVIDE WEATHERPROOF PEDESTAL MOUNTED JUNCTION BOX FOR FLAG POLE LIGHTING. VERIFY FINAL LOCATION PRIOR TO INSTALLATION.
 - PROVIDE 0-3/4" CONDUIT FROM WALL MOUNTED JBOX TO PEDESTAL MOUNTED JBOX.
 - PROVIDE WEATHERPROOF JBOX FOR FUTURE LANDSCAPING.
 - PROVIDE 0-3/4" CONDUIT FROM WALL MOUNTED JBOX TO STUB UP IN ELECTRIC GATE OPENING EQUIPMENT. VERIFY EXACT LOCATION PRIOR TO INSTALLATION.
 - CONTRACTOR SHALL INSTALL PER MANUFACTURER'S REQUIREMENTS AND VERIFY ALL ELECTRICAL REQUIREMENTS INCLUDING CIRCUIT BREAKER SIZE OF FINAL EQUIPMENT SELECTED WITH VENDOR. PRIOR TO INSTALLATION. CONTRACTOR SHALL INCLUDE IN BID CONDUIT, WIRE, JUNCTION BOX, SUPPORT AND UNDERGROUND ROUTING. VERIFY FINAL LOCATION OF EQUIPMENT PRIOR TO INSTALLATION. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
 - ELECTRICAL PROVISION SHOWN ONLY. ELECTRICAL GATES EQUIPMENT SHALL FOLLOW LOCAL AHJ AND NEC PROVISIONS. ELECTRICAL GATE SYSTEM DETAILS AND INSTALLATION REQUIREMENTS SHALL BE PROVIDED BY OTHERS AND EXPLICITLY EXCLUDED OF THESE DOCUMENTS.
 - LIFT STATION PUMP. INSTALL PER MANUFACTURER'S RECOMMENDATION. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. THE ELECTRICAL PROVISIONS ARE SHOWN FOR BID PURPOSES. THE FINAL ALLOCATIONS SHALL BE VERIFIED WITH THE FINAL SUBMITTAL AND ADJUSTED ACCORDINGLY.



#	ISSUED FOR	DATE
	PERMIT SET	01/13/24

DRAWN BY: Author
REVIEW BY: Checker

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2023559

E-001

LU 10/2024 148-13-AM

LUMINAIRE SCHEDULE						
SYMBOL	QTY	LABEL	ARRANGEMENT	TOTAL LAMP LUMENS	LLF	DESCRIPTION
S1	2	OFF-S401-S40-TSM	SINGLE	N.A.	1.000	OFF-S401-S40-TSM
S2	5	OFF-S402-S40-TSM	SINGLE	N.A.	1.000	OFF-S402-S40-TSM
W1/WIE	19	GSWRS-S402-12-C-BK(1)	SINGLE	N.A.	1.000	GSWRS-S402-12-C-BK(1)
W1/WIE	7	GSWRS-S402-12-C-BK(1L)	SINGLE	N.A.	0.500	GSWRS-S402-12-C-BK(1L)

CALCULATION SUMMARY						
LABEL	CALC TYPE	UNITS	AUG	MAX	MIN	AVERAGE
PARKING LOT	ILLUMINANCE	FC	1.27	3.5	0.4	3.38
PROPERTY LINE	ILLUMINANCE	FC	0.26	3.5	0.0	N.A.
SITE PLAN	ILLUMINANCE	FC	1.53	3.9	0.1	15.30

GENERAL NOTES

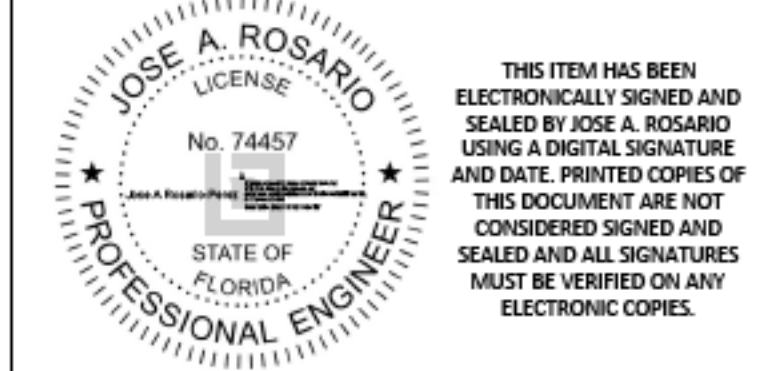
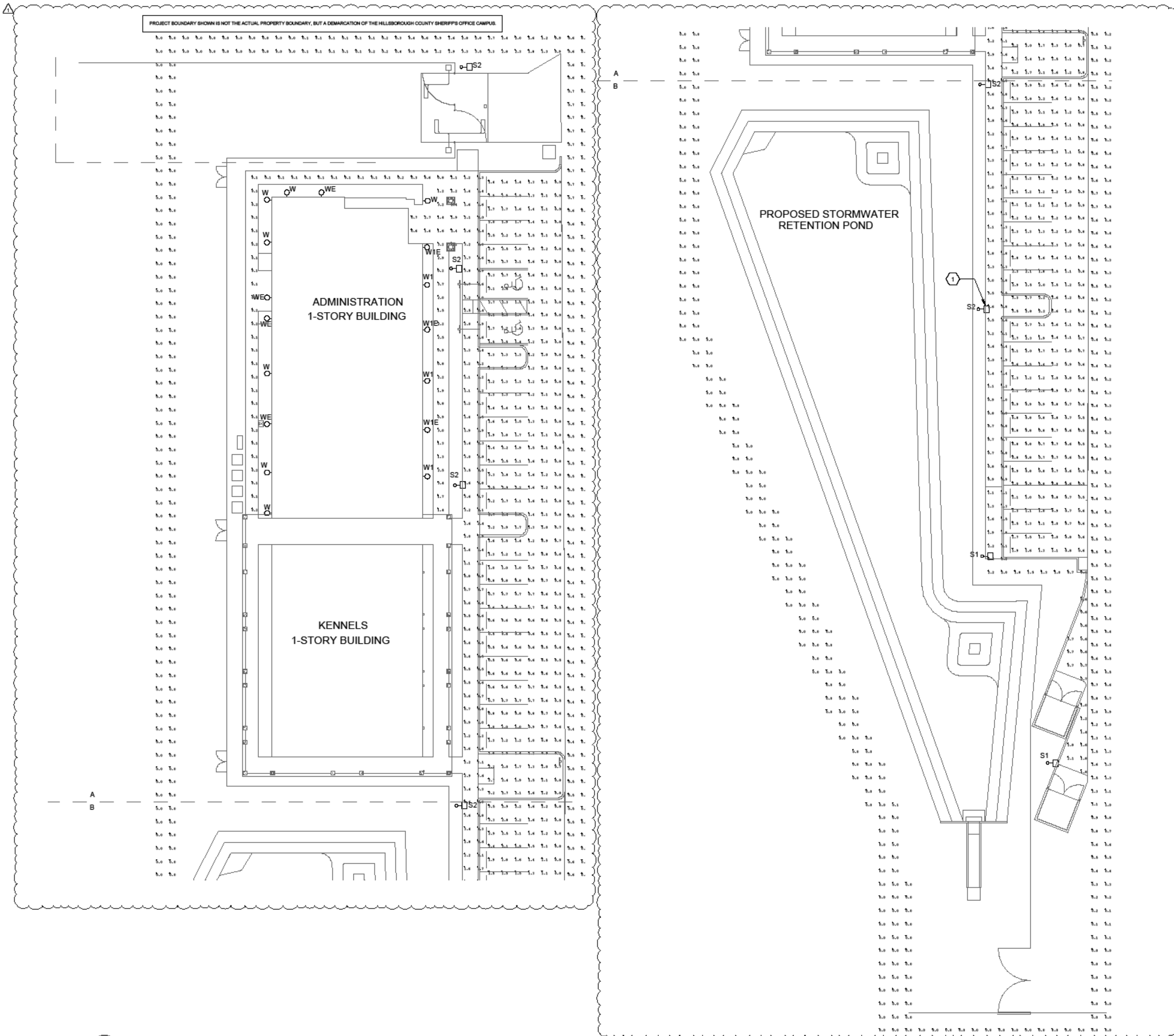
- A. PRIOR TO PASSING FINAL INSPECTION, A THIRD PARTY PROFESSIONAL ENGINEER SHALL PROVIDE EVIDENCE THAT THE SITE LIGHTS AND ASSOCIATED CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT THE SYSTEM IS IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, MANUFACTURER'S INSTRUCTIONS AND LOCAL PROVISIONS.
- B. ENSURE THE ILLUMINATION OF THE PROPERTY LINE MEET THE HILLSBOROUGH LAND DEVELOPMENT CODE SECTION 6.10.02 REQUIREMENTS.

KEYNOTES

- 1. SITE POLE BASIS OF DESIGN - PRESTRESSED CONCRETE DIRECT BURIAL POLE (US1277H-S-8656):
 - POLE WEIGHT - 1,540 LBS
 - WIND SPEED - 150 MPH VULT
 - EXPOSURE - C
 - GUST FACTOR - 1.2
 - RISK CATEGORY II
 - ASCE 7-16
 - 7TH EDITION 2020 FBC 1609, 1806, 1620 HVHZ
 - DEAD LOAD PER - AASHTO LTS-4
 - LIVE LOAD PER - AASHTO LTS-4
 - WIND LOAD PER AASHTO LTS-4
 - CONCRETE - 6,500 LBS @ 28 DAYS
 - GRD. WIRE - #6 STR. COPPER
 - STRAND - 1/2" @ 70% ULTIMATE
- THIS POLE (20' ABOVE GROUND) EMBEDDED 7' IN TO SOILS WITH AN ALLOWABLE PASSIVE PRESSURE OF PCF IS STRUCTURALLY ADEQUATE TO RESIST THE LOCAL WIND SPEED OF 150 MPH CO. WITH THE 2.5 SAFT EPA OF LIGHT FIXTURE.

DRAWING SHOWN FOR REFERENCE ONLY

**** SITE PHOTOMETRIC DRAWING HAS BEEN ISSUED IN A SEPARATE PERMIT.**



HCSO Regional K-9 Training Center

2214 N FALKENBURG RD
TAMPA, FL 33619

ELECTRICAL SITE PHOTOMETRICS

#	ISSUED FOR	DATE
1	SITE PHOTOMETRIC PLAN	02-09-2024
2	REVISION 1	04-23-2024

DRAWN BY: GMY
REVIEW BY: JAR

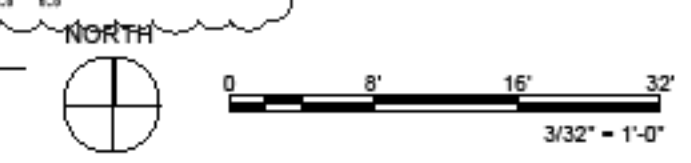
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LU: 2023041404E.PW

1 Electrical Site Photometric Plan
E-002 3/32" = 1'-0"



#	ISSUED FOR	DATE
1	PERMIT SET	01/10/2024
	ADDENDUM #2	08/02/2024

DRAWN BY: SK/SY
REVIEW BY: JAR

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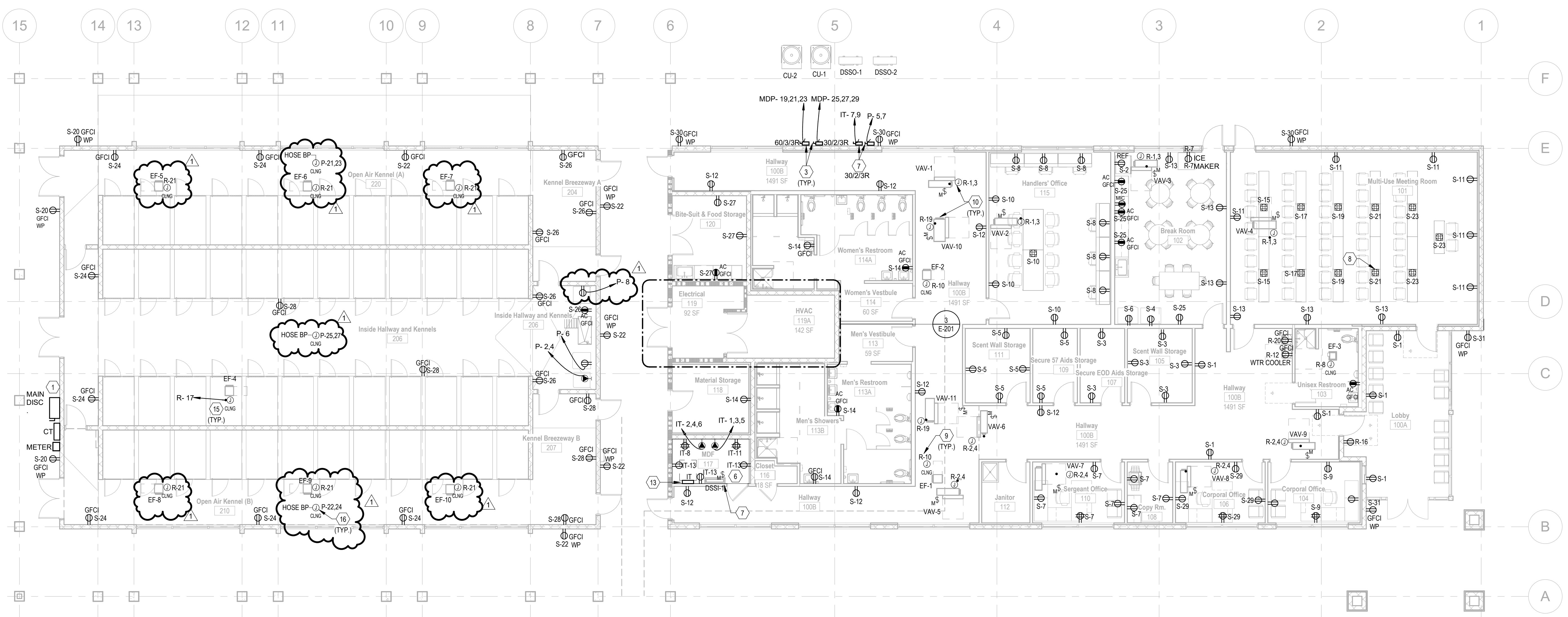
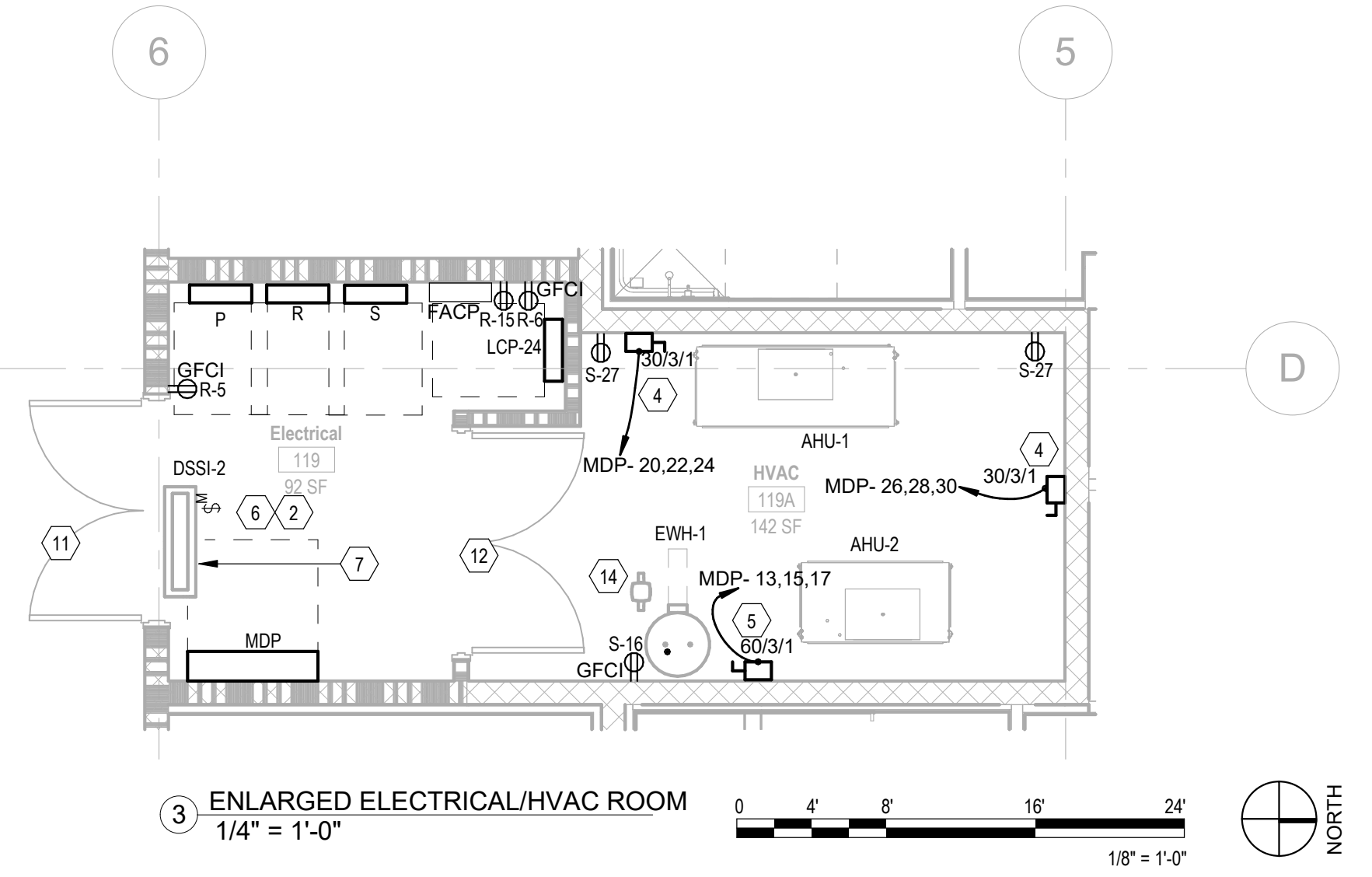
E-201

GENERAL NOTES

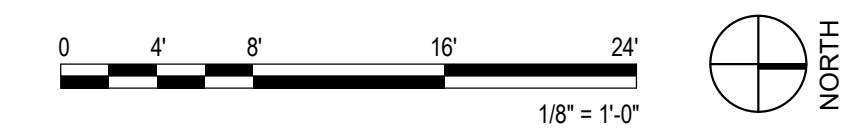
- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC/SCHEMATIC IN NATURE AND REPRESENT THE GENERAL SCOPE OF WORK. IT IS NOT WITHIN THE SCOPE OF THE ELECTRICAL DRAWINGS TO SHOW ALL NECESSARY RACEWAY ROUTING, BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF EQUIPMENT FOR PROPER OPERATION IN ACCORDANCE WITH CODE, OWNER, VENDORS AND MANUFACTURER RECOMMENDATIONS.
- B. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFICATION OF ALL RATED WALLS, CEILING AND SLABS AND THEIR SPECIFIED RATING ON THE ARCHITECTURAL DRAWINGS. ALL DEVICES AND MATERIALS SHALL MEET THE UL RATING OF THE RATED WALLS, CEILING AND SLABS ASSEMBLY. CONTRACTOR SHALL PROVIDE AN ASSEMBLY INSTALLED IN ACCORDANCE WITH THE RATED APPLICATION.
- C. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS WITH MECHANICAL CONTRACTOR BEFORE BIDDING/ORDERING AND INSTALLATION.
- D. CONTRACTOR SHALL COORDINATE ANY WALL MOUNTED ITEM (ELECTRICAL/DAT/LIGHT) WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
- E. FINAL LOCATION OF OUTLETS SHALL BE COORDINATED WITH OWNER AND ARCHITECT DURING WALK THROUGH AFTER ROUGH-IN IS COMPLETE.
- F. CONTRACTOR SHALL COORDINATE ALL LOW VOLTAGE AND IT EQUIPMENT WITH SELECTED VENDOR.

KEYNOTES

1. NEW SERVICE ENTRANCE AND METERING EQUIPMENT FOR 800 AMPS / 208V THREE PHASE SERVICE. SEE RISER DIAGRAM ON SHEET E-601 FOR DETAILS.
2. NEW ELECTRICAL MAIN DISTRIBUTION PANEL AND NEW SUBPANELS SHALL BE FURNISHED AND INSTALLED AS SHOWN IN ELECTRICAL ROOM 202A. REFER TO RISER DIAGRAM ON SHEET E-601 FOR MORE DETAILS ON CONNECTIONS, RATINGS, ETC.
3. DISCONNECT SWITCH FOR EACH CONDENSING UNIT (TYPICAL).
4. DISCONNECT SWITCH FOR EACH INDOOR AIR HANDLER UNIT.
5. DISCONNECT SWITCH FOR WATER HEATER.
6. PROVIDE GROUND BUSBAR FOR GROUNDING OF EQUIPMENT IN ELECTRICAL ROOM AND IT ROOM. FINAL LOCATION OF GROUNDING BUSBAR CAN BE ADJUSTED BASED ON FIELD CONDITIONS AND SHALL BE ACCESSIBLE. PROVIDE #4 CU TO BUILDING MAIN GROUND BUSBAR.
7. MINI SPLIT INDOOR UNIT SHALL BE POWERED FROM THE OUTDOOR UNIT. PROVIDE 3/4" CONDUIT WITH POWER AND CONTROL WIRES FROM MINI-SPLIT INDOOR UNIT TO THE ASSOCIATED OUTDOOR UNIT. MAKE ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS. SEE MECHANICAL PLANS & SCHEDULES FOR ADDITIONAL INFORMATION. PROVIDE DISCONNECT SWITCH FOR EACH OUTDOOR UNIT AS SHOWN.
8. PROVIDE FLOOR BOX WITH 4 POWER OUTLETS AND 4 DATA PORTS. PROVIDE 3/4" CONDUIT FOR POWER AND 3/4" FOR DATA. REFER TO SHEET E-602 DETAIL 4 FOR ADDITIONAL FLOOR BOX INFORMATION. BASES OF DESIGN IS FL-700-SO FLOOR BOX. CONTRACTOR TO PROVIDE EQUIVALENT FOR APPROVAL BY ARCHITECT/OWNER AND ENGINEER.
9. EXHAUST FANS 1,2,3 SHALL HAVE INTEGRAL DISCONNECT SWITCH AND BE INTERLOCKED WITH SCHEDULED AHU. REFER TO MECHANICAL DRAWINGS AND SCHEDULES FOR ADDITIONAL DETAILS.
10. PROVIDE A MOTOR RATED SWITCH AS A MEANS OF DISCONNECT FOR EACH VAV UNIT. TYPICAL VAVS 1-4 SHALL BE CONNECTED TO (1) DEDICATED CIRCUIT & VAVS 5-9 TO BE CONNECTED TO ANOTHER DEDICATED CIRCUIT. REFER TO PANEL SCHEDULE 'R' FOR MORE DETAILS.
11. THE EGRESS DOOR OF ELECTRICAL ROOM SHALL BE EQUIPPED WITH LISTED PANIC HARDWARE.
12. ALL THE ELECTRICAL GEAR IN ROOM 202 SHALL HAVE LABELS INDICATING THE DOUBLE DOOR BETWEEN ELECTRICAL AND HVAC ROOM SHALL BE KEPT LOCKED DURING INSTALLATION OR SERVICING OF ANY ELECTRICAL EQUIPMENT INSIDE THAT ROOM. ALSO, THE SAME DOUBLE DOOR TO BE PROVIDED WITH A DOOR STOP THAT WOULD ONLY ALLOW IT TO ROTATE BY 90 DEGREES. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.
13. FURNISH AND INSTALL ELECTRICAL PANEL LABELED AS 'IT' IN THE MDF ROOM FOR POWER PROVISION OF ALL IT EQUIPMENT IN THE ROOM.
14. DEDICATED CIRCUIT FOR RECIRCULATING PUMP. EXACT LOCATION TO BE COORDINATED IN FIELD.
15. EF-4,5,6,7,8,9,10 SHALL HAVE INTEGRAL DISCONNECT SWITCH AND BE INTERLOCKED WITH THE SCHEDULED ROOFTOP UNIT. REFER TO MECHANICAL DRAWINGS AND SCHEDULES FOR ADDITIONAL INFORMATION.
16. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND PLUMBING FOR FINAL LOCATION AND HEIGHT OF JUNCTION BOX PRIOR TO ROUGH-IN. PROVIDE JUNCTION BOX, CONDUIT, DISCONNECT, WIRE AND SUPPORT HARDWARE AS NEEDED. COORDINATE WITH VENDOR FOR FINAL REQUIREMENTS. INCLUDE IN BID # 10 AWG WIRES AS A BASIS OF DESIGN.



1 POWER FLOOR PLAN
1/8" = 1'-0"



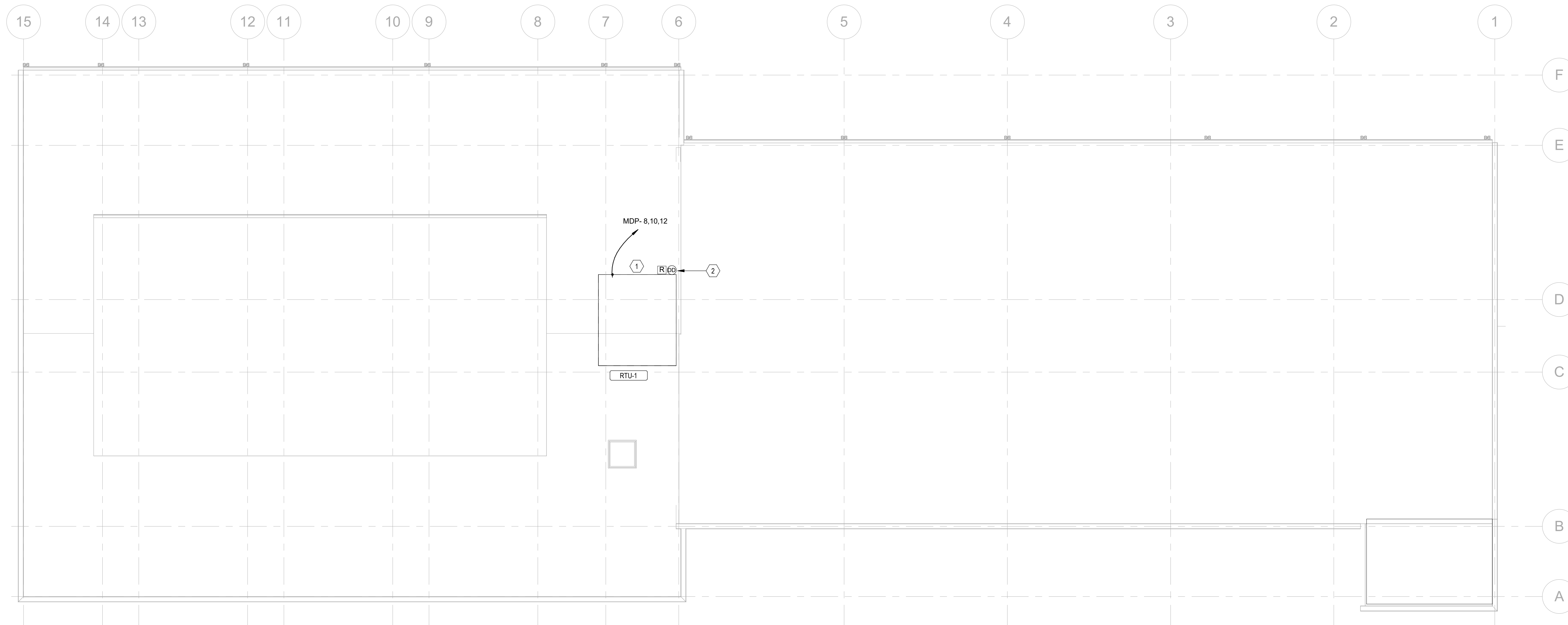
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GENERAL NOTES

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC/SCHEMATIC IN NATURE AND REPRESENT THE GENERAL SCOPE OF WORK. IT IS NOT WITHIN THE SCOPE OF THE ELECTRICAL DRAWINGS TO SHOW ALL NECESSARY RACEWAY ROUTING, BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF EQUIPMENT FOR PROPER OPERATION IN ACCORDANCE WITH CODE, OWNER, VENDORS AND MANUFACTURER RECOMMENDATIONS.
- B. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFICATION OF ALL RATED WALLS, CEILINGS AND SLABS AND THEIR SPECIFIED RATING ON THE ARCHITECTURAL DRAWINGS. ALL DEVICES AND MATERIALS SHALL MEET THE UL RATING OF THE RATED WALLS, CEILINGS AND SLABS ASSEMBLY. CONTRACTOR SHALL PROVIDE AN ASSEMBLY INSTALLED IN ACCORDANCE WITH THE RATED APPLICATION.
- C. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS WITH MECHANICAL CONTRACTOR BEFORE BIDDING/ORDERING AND INSTALLATION.
- D. CONTRACTOR SHALL COORDINATE ANY WALL MOUNTED ITEM (ELECTRICAL/DATALIGHT) WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
- E. FINAL MOUNTING HEIGHTS AND LOCATION OF BOXES, DISCONNECTS, JUNCTION BOXES AND SWITCHES SHALL BE COORDINATED WITH OTHER TRADES, SUCH AS, ARCHITECTURE, MECHANICAL, AND PLUMBING AND VERIFIED WITH OWNER AND ARCHITECT DURING WALK THROUGH AFTER ROUGH-IN IS COMPLETE.
- F. ELECTRICAL EQUIPMENT AND DISCONNECTS SHALL BE LOCATED SO THAT THE CODE REQUIRED MINIMUM WORKING CLEARANCE AND DEDICATED ELECTRICAL SPACE ARE MAINTAINED AND ACCESSIBLE.

KEYNOTES 

- 1. FACTORY MOUNT DISCONNECT SWITCH AND CONVENIENCE OUTLET TO BE PROVIDED WITH THE ROOFTOP UNIT. REFER TO MECHANICAL SCHEDULE FOR DETAILS.
- 2. PROVIDE DUCT DETECTOR & RELAY MODULE FOR THE ROOFTOP UNIT, UPON FIRE ALARM ACTIVATION THE RELAY MODULE SHALL SHUT DOWN THE UNIT.

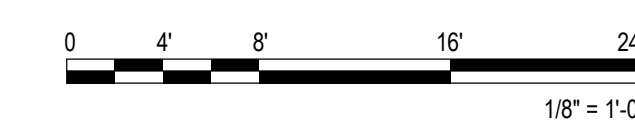


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GENERAL NOTES

A. THE CONTRACTOR IS RESPONSIBLE FOR ALL TELE/DATA CONDUIT, WIRING, TERMINATIONS, ANY REQUIRED PATCH PANELS, ETC. NECESSARY FOR ALL SPECIAL SYSTEMS IN COORDINATION WITH THE HCSO DEPARTMENT. UNLESS OTHERWISE NOTED.

B. TELECOM DEVICES SHOWN FOR REFERENCE ONLY. FINAL DESIGN AND PERMITTING SHALL BE BY TELECOMMUNICATIONS LOW VOLTAGE VENDOR HIRED BY THE HCSO DEPARTMENT. PROJECT BID SHALL INCLUDE A COMPLETE TELECOMMUNICATION SYSTEM.

C. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY ALL RATED WALLS, CEILING AND SLABS AND THEIR SPECIFIED RATING ON THE ARCHITECTURAL DRAWINGS. ALL DEVICES AND MATERIALS SHALL MEET THE UL RATING OF THE RATED WALLS, CEILING AND SLABS ASSEMBLY INSTALLED IN ACCORDANCE WITH UL FOR THE RATED APPLICATION.

D. ELECTRICAL CONTRACTOR SHALL VERIFY LOCATION OF ANY WALL MOUNTED ITEM (ELECTRICAL/DATA) PRIOR TO INSTALLATION.

E. JUNCTION BOXES SHALL BE MOUNTED IN ACCESSIBLE LOCATIONS. PROVIDE AND COORDINATE ACCESS PANELS IN HARD CEILINGS WITH ALL OTHER TRADES AS NECESSARY.

F. FINAL MOUNTING HEIGHTS AND LOCATIONS OF BOXES, JUNCTION BOXES AND DATA CONNECTIONS SHALL BE VERIFIED WITH VENDORS AND HCSO DEPARTMENT PRIOR TO CONSTRUCTION.

G. ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CONDUIT, CABLE TRAY, OR SUPPORTED BY CABLE HOOKS. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUIT WHERE STUBBED ABOVE ACCESSIBLE CEILINGS OR WHERE DROPPED INTO CABLE TRAY. PROVIDE CABLE HOOKS ABOVE ACCESSIBLE CEILINGS FOR CABLE INSTALLATION WHERE NOT INSTALLED IN CONDUIT OR CABLE TRAY.

H. ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CONDUIT OR CABLE TRAY.

I. FIRE ALARM DEVICES IN KENNEL SHALL COMPLY WITH 150.9.3.2 - THE ALARM SYSTEM SHALL SOUND AN AUDIBLE AND VISUAL EXTERIOR ALARM FOR PURPOSES OF INITIATING EMERGENCY ACTION.

J. ALL SECURITY DEVICES, EQUIPMENT AND MATERIALS SHALL BE COORDINATED AND PROVIDED BY THE HCSO SECURITY TEAM.

K. COORDINATE WITH HCSO SECURITY HEAD IF ADDITIONAL SECURITY DEVICES AND SYSTEM NOT SHOWN IN THE DRAWINGS NEED TO BE ADDED AND ALSO INCLUDED IN THE PROJECT BID.

GENERAL NOTES

L. WIRELESS ACCESS POINT (WAP) SYSTEM IS NOT IN SCOPE OF THE PROJECT AND WILL BE PROVIDED BY THE HCSO DEPARTMENT.

M. ALL ELECTRONICS, POWER OVER ETHERNET (POE) SWITCHES SHALL BE PROVIDED AND INSTALLED BY THE LOW VOLTAGE VENDOR HIRED BY THE HCSO DEPARTMENT.

N. FIRE ALARM DEVICES SHOWN FOR REFERENCE ONLY. FINAL DESIGN AND PERMITTING SHALL BE BY FIRE ALARM CONTRACTOR. PROJECT BID SHALL INCLUDE A COMPLETE FIRE ALARM SYSTEM, INCLUDED BUT NOT LIMITED TO FIRE ALARM MAIN PANEL, WIRELESS DIALER, REMOTE ANNUNCIATOR PANEL, NAC PANELS, ANNUNCIATOR DEVICES, NOTIFICATION DEVICES, WIRING, WIRING TERMINATIONS, APPROVED FIRE WALL PENETRATIONS PROTECTION, WARRANTY, PROGRAMMING TESTING AND TRAINING. EXTERIOR DEVICES SHALL BE WEATHERPROOF.

O. FIRE ALARM SYSTEM SHALL BE NON-PROPRIETARY.

P. SECURITY DEVICES SHOWN FOR REFERENCE ONLY. FINAL DESIGN AND PERMITTING SHALL BE BY SECURITY CONTRACTOR/VENDOR TO BE HIRED BY THE HCSO DEPARTMENT. PROJECT BID SHALL INCLUDE A COMPLETE SECURITY SYSTEM APPROVED BY THE HCSO DEPARTMENT.

Q. THE GC IS RESPONSIBLE FOR PROVIDING ALL CONDUITS, J-BOXES AND PULL STRINGS FOR THE DOOR ACCESS EQUIPMENT AND SECURITY CAMERA EQUIPMENT.

R. THE GC IS RESPONSIBLE FOR PROVIDING NECESSARY POWER OUTLETS FOR THE DOOR ACCESS EQUIPMENT AND SECURITY CAMERA EQUIPMENT.

S. COORDINATE ALL DOOR HARDWARE AND SEQUENCE OF OPERATION WITH ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS.

T. MAGNETIC LOCKS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM THROUGH A SET OF NORMALLY CLOSED, DRY CONTACTS SUPPLIED BY FIRE ALARM CONTRACTOR.

U. DOOR HARDWARE SHALL BE COORDINATED WITH FIRE ALARM SYSTEM TO DISENGAGE UPON FIRE ALARM SYSTEM ACTIVATION. COORDINATE FINAL LOCATION OF CONDUIT AND JUNCTION BOXES WITH SUCCESSFUL DOOR SECURITY HARDWARE PROVIDER PRIOR TO CONSTRUCTION.

KEYNOTES

1. NEW FIRE ALARM SYSTEM INCLUDING THE MAIN FIRE ALARM CONTROL PANEL, REMOTE ANNUNCIATOR, DIALER, INITIATION AND NOTIFICATION DEVICES SHALL BE PROVIDED THROUGHOUT THE BUILDING IN COMPLIANCE WITH CURRENT APPLICABLE CODES AND LOCAL ORDINANCES.

2. NEW DATA OUTLETS (TYPICAL). PROVIDE 1-1/4" CONDUIT WITH PULL STRING FROM EACH DATA DROP LOCATION TO AN ACCESSIBLE LOCATION ABOVE CEILING SPACE IN WALL. COORDINATE WITH VENDOR FOR ALL MEANS, METHODS, WIRING AND INSTALLATION REQUIREMENTS. LOCATION ARE SHOWN FOR COORDINATION PURPOSES. THE GENERAL CONTRACTOR SHALL INCLUDE IN PROJECT BID TO RUN FULL HOMERUNS FROM EACH DATA DROP LOCATION TO MDF ROOM 116. SHOP DRAWING INCLUDING LABELING MATRIX SHALL BE PROVIDED.

3. AN EXTERIOR RATED AUDIO-VISUAL FIRE ALARM NOTIFICATION DEVICE TO BE FURNISHED AND INSTALLED OUTSIDE AS SHOWN.

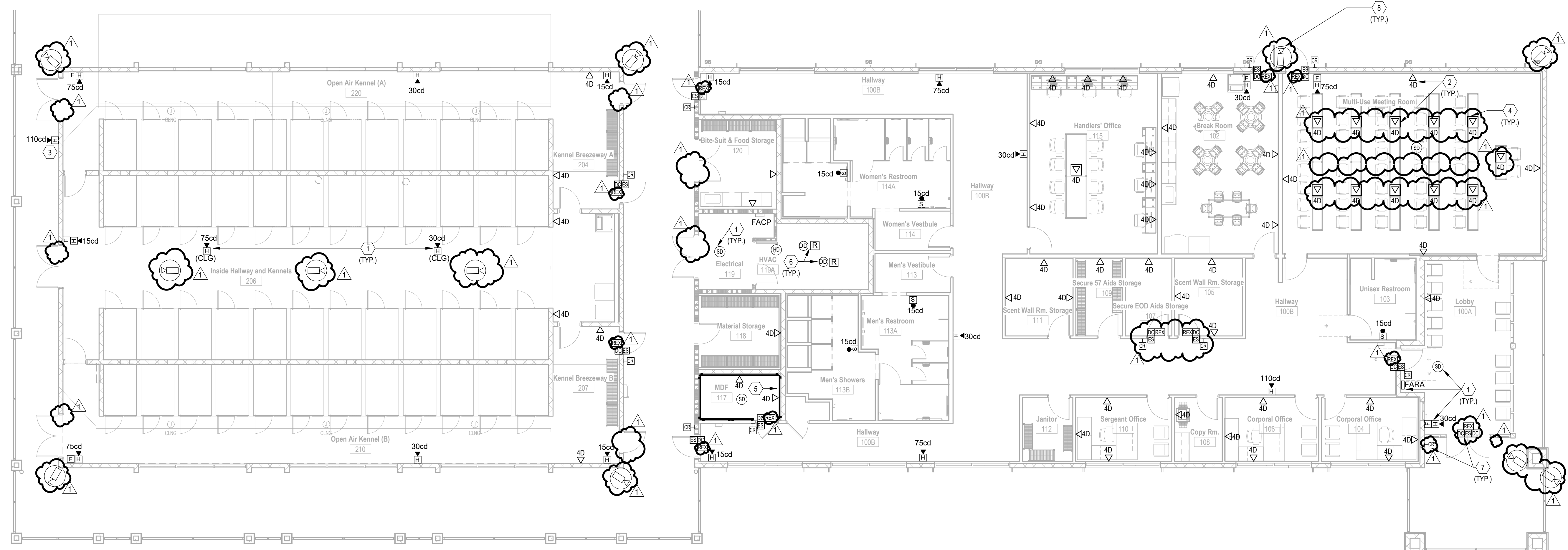
4. FLOOR BOX, COORDINATE ROUGH IN REQUIREMENTS WITH FLOORING CONTRACTOR. RUN (1) 1" UNDERGROUND CONDUIT FOR DATA FOR EACH FLOOR BOX (TYPICAL).

5. PROVIDE LISTED FIRE RATED PLYWOOD BACKBOARD WITH INTUMESCENT PAINT ON ALL 4 WALLS OF THE MDF ROOM.

6. PROVIDE DUCT DETECTOR & RELAY MODULE FOR EACH INDOOR AIR HANDLER UNIT (TYP.). UPON FIRE ALARM ACTIVATION THE RELAY MODULE SHALL SHUT DOWN THE RESPECTIVE INDOOR UNIT.

7. NEW DOOR ACCESS CONTROLS (TYPICAL). PROVIDE 3/4" CONDUIT WITH PULL STRING FROM EACH DOOR ACCESS CONTROL TO AN ACCESSIBLE LOCATION ABOVE CEILING SPACE IN WALL COORDINATE WITH VENDOR FOR ALL MEANS, METHODS, WIRING AND INSTALLATION REQUIREMENTS. REFER TO THE ACCESS CONTROL DETAILS ON SHEET E-503 FOR ADDITIONAL DETAILS. LOCATION ARE SHOWN FOR COORDINATION PURPOSES. THE GENERAL CONTRACTOR SHALL INCLUDE IN PROJECT BID TO RUN FULL HOMERUNS FROM EACH DOOR ACCESS CONTROL LOCATION TO MDF ROOM 116. COORDINATE WITH HCSO HEAD SECURITY IF ADDITIONAL DOOR ACCESS CONTROLS NEED TO BE ADDED AS PART OF THE PROJECT SCOPE.

8. NEW SECURITY CAMERAS (TYPICAL). EXTERIOR CAMERAS PROVIDED SHALL BE RATED FOR OUTDOOR AND WET LOCATIONS. PROVIDE 3/4" CONDUIT WITH PULL STRING FROM EACH CAMERA TO AN ACCESSIBLE LOCATION ABOVE CEILING SPACE IN WALL COORDINATE WITH VENDOR FOR ALL MEANS, METHODS, WIRING AND INSTALLATION REQUIREMENTS. LOCATION ARE SHOWN FOR COORDINATION PURPOSES. THE GENERAL CONTRACTOR SHALL INCLUDE IN PROJECT BID TO RUN FULL HOMERUNS FROM EACH CAMERA LOCATION TO MDF ROOM 116. SHOP DRAWING INCLUDING LABELING MATRIX SHALL BE PROVIDED. WIRING SHALL BE RAN AND SUPPORTED USING INDUSTRY STANDARD MEANS AND METHODS. COORDINATE WITH HCSO HEAD SECURITY IF ADDITIONAL SECURITY CAMERAS NEED TO BE ADDED AS PART OF THE PROJECT SCOPE.



1 SPECIAL SYSTEMS FLOOR PLAN
 1/8" = 1'-0"

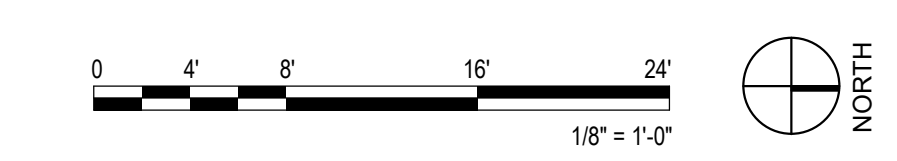
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	ADDENDUM #2	08/02/2024

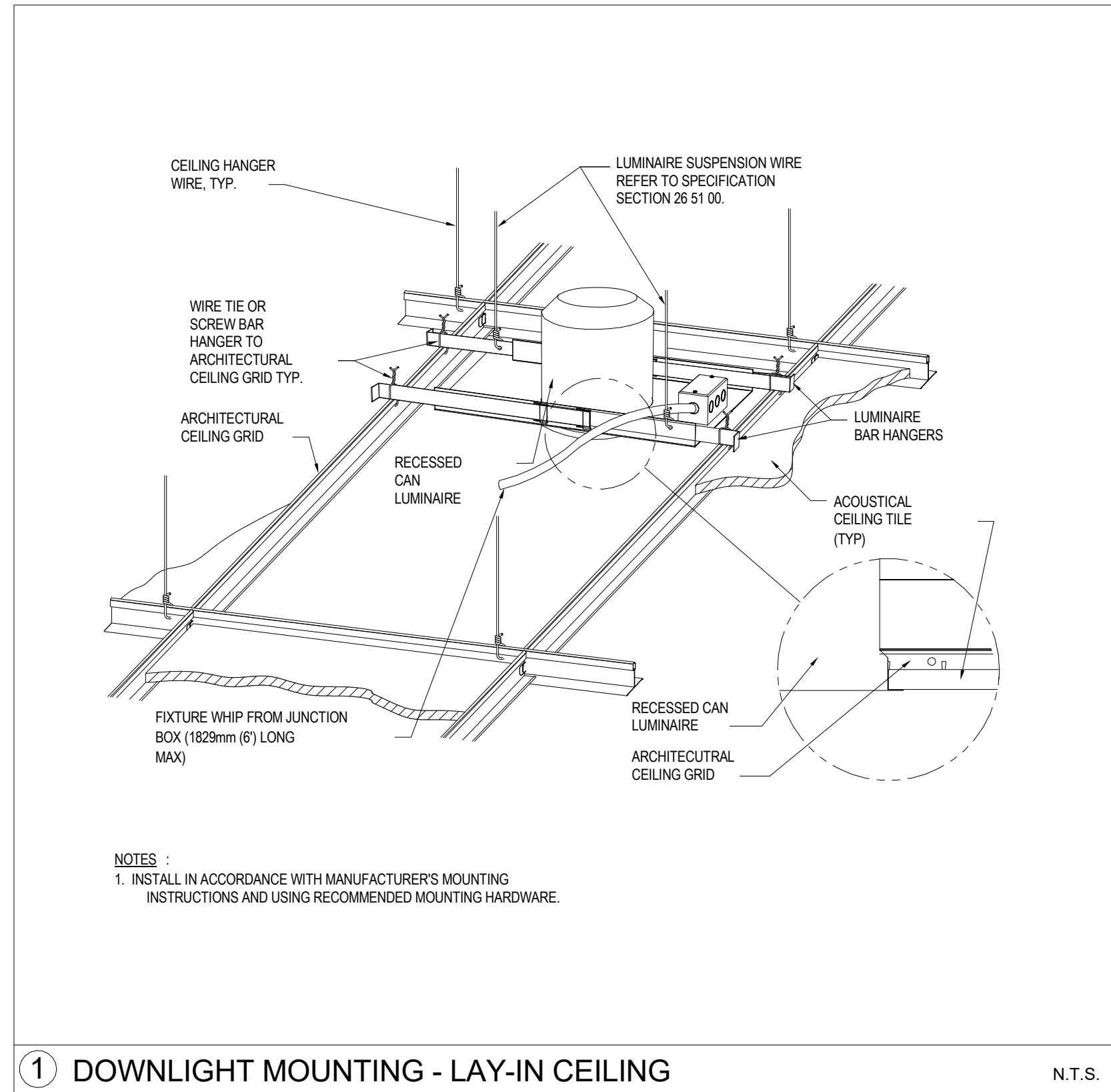
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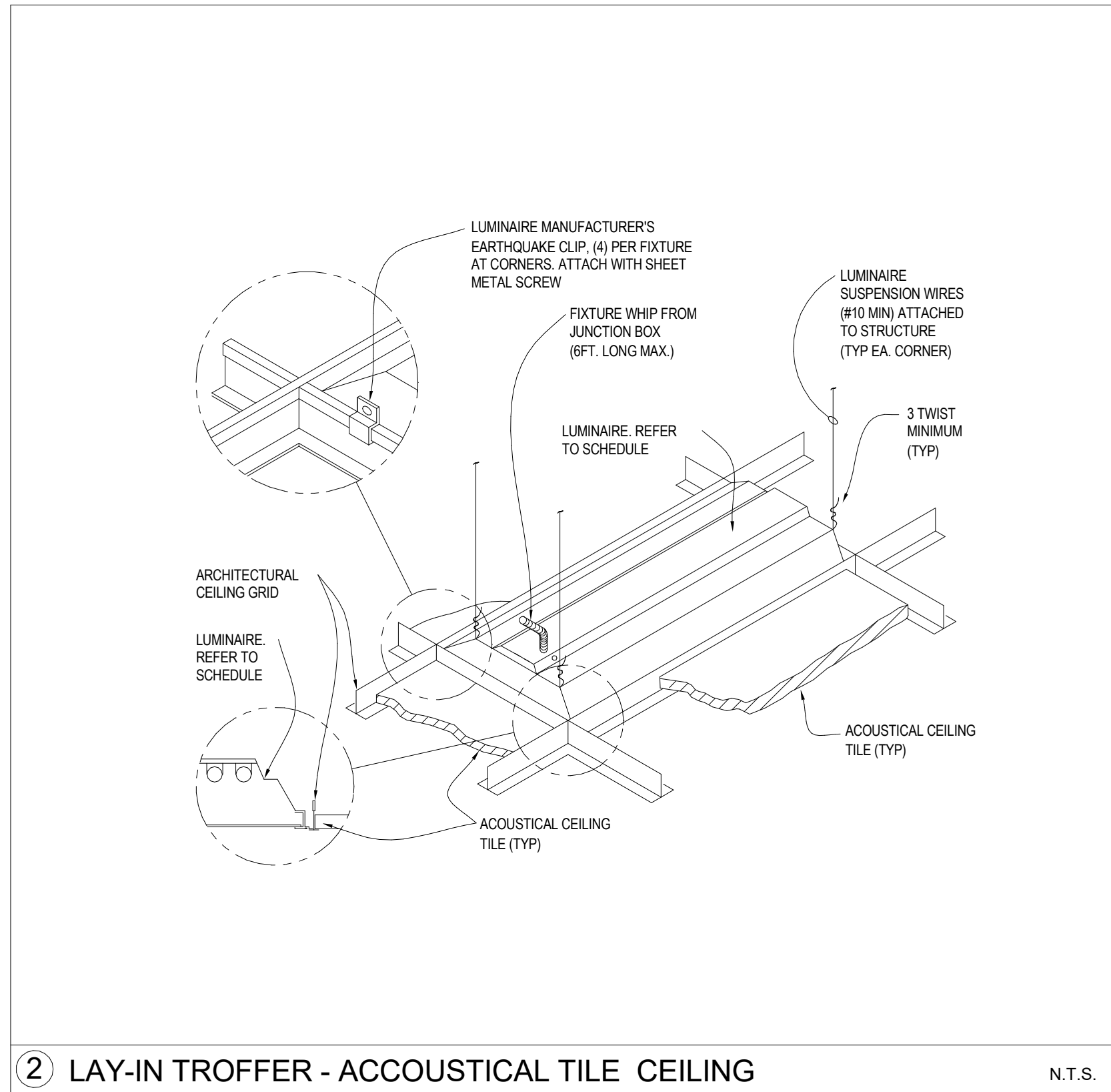
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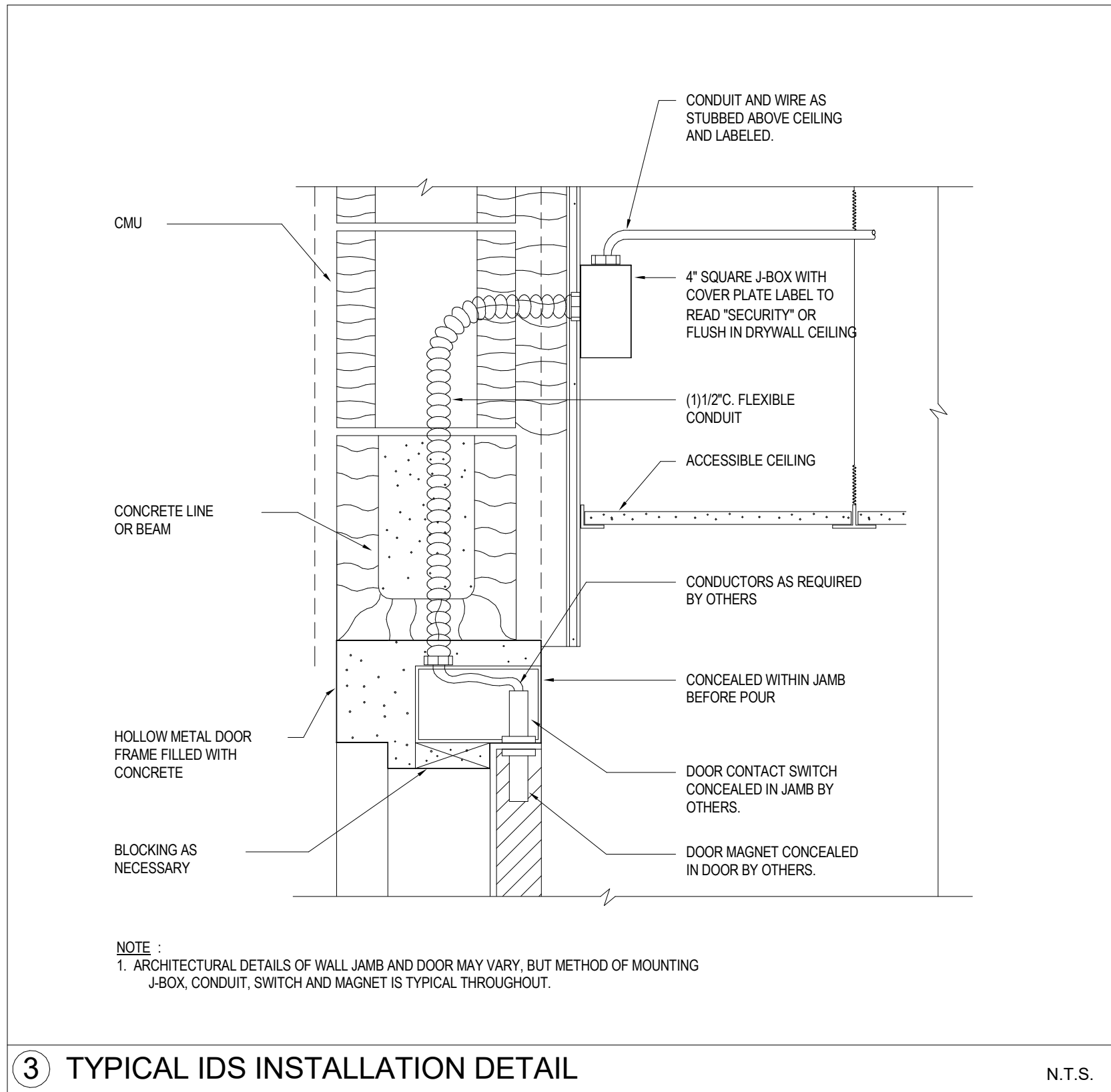




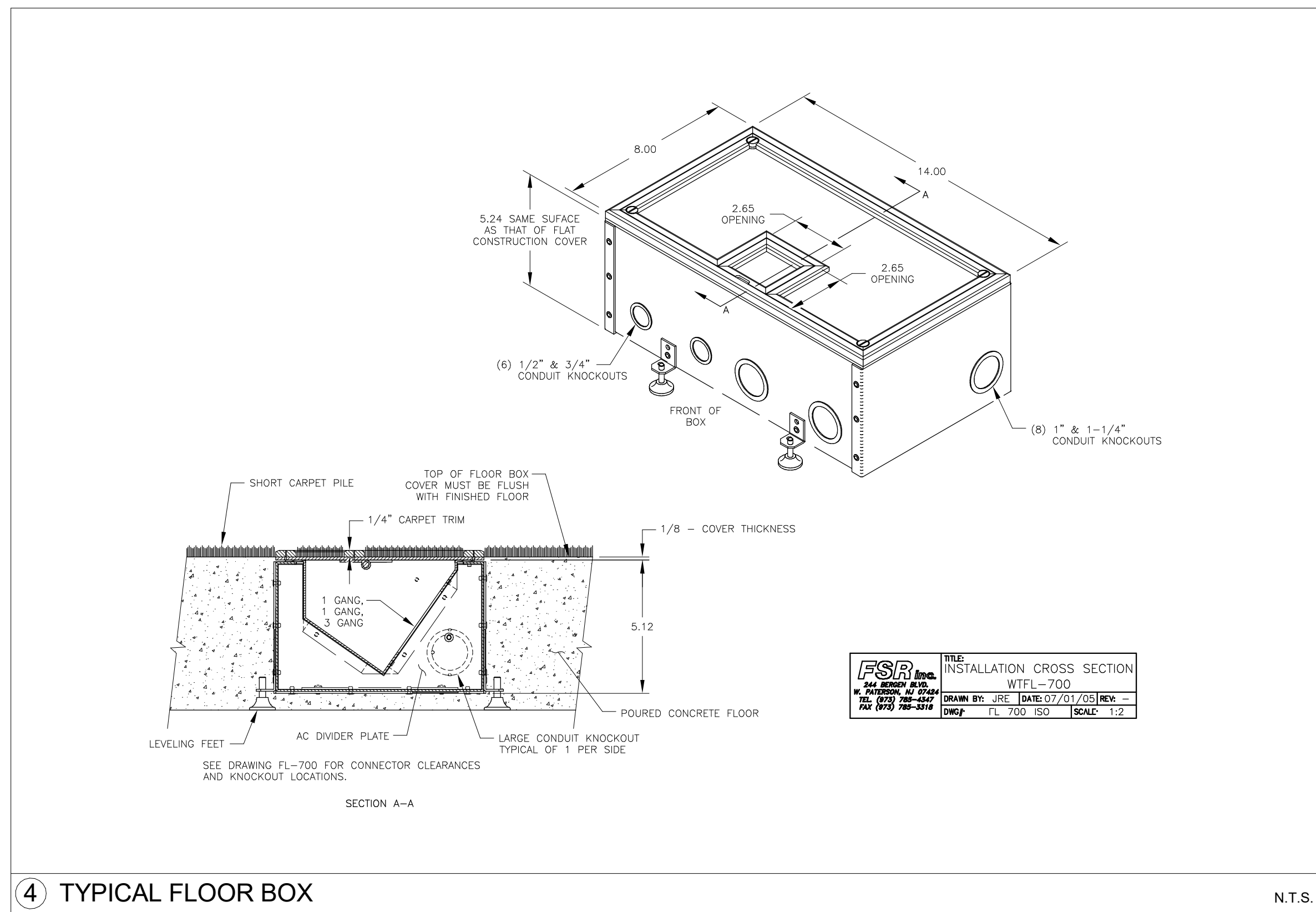
① DOWNLIGHT MOUNTING - LAY-IN CEILING N.T.S.



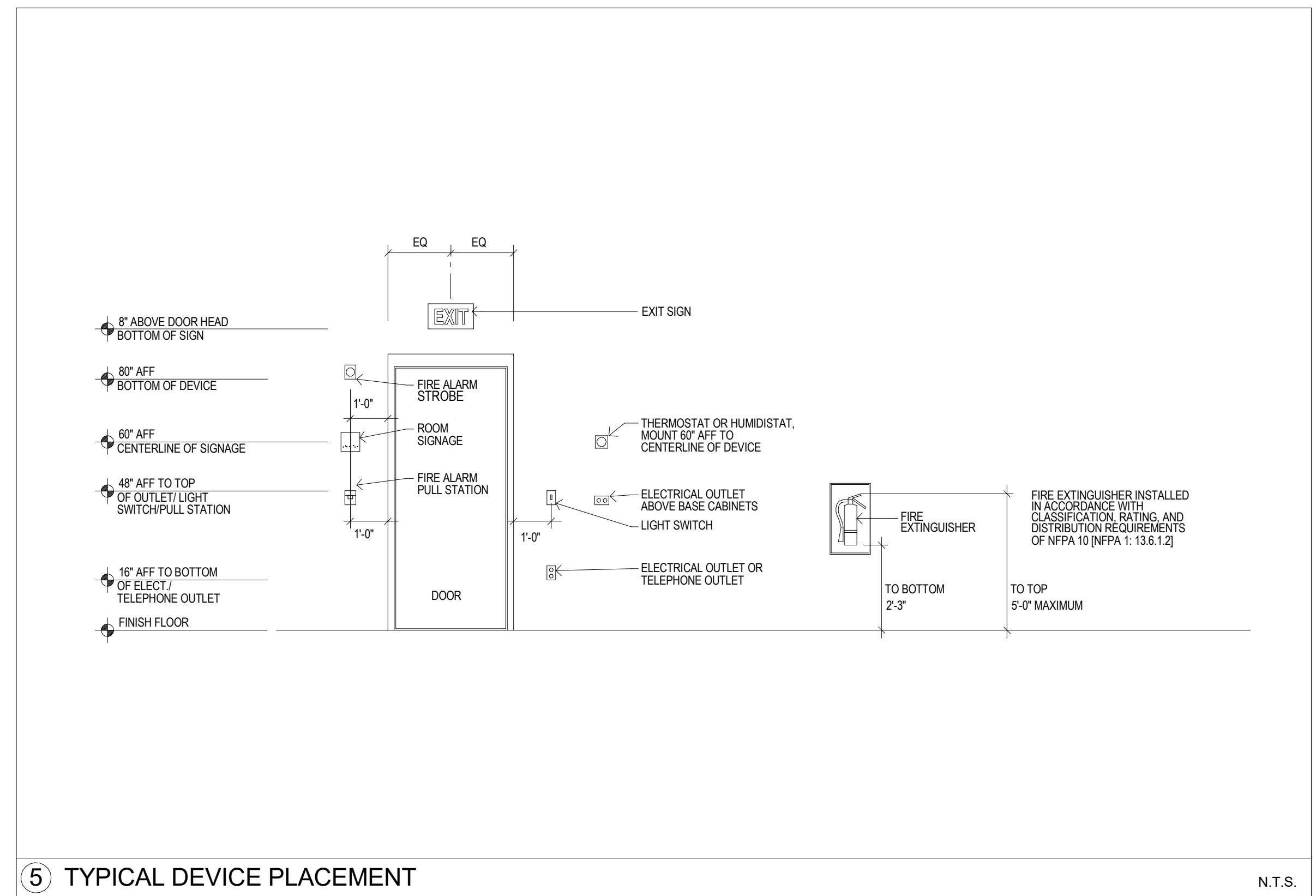
② LAY-IN TROFFER - ACCOUSTICAL TILE CEILING N.T.S.



③ TYPICAL IDS INSTALLATION DETAIL N.T.S.



④ TYPICAL FLOOR BOX N.T.S.



⑤ TYPICAL DEVICE PLACEMENT N.T.S.

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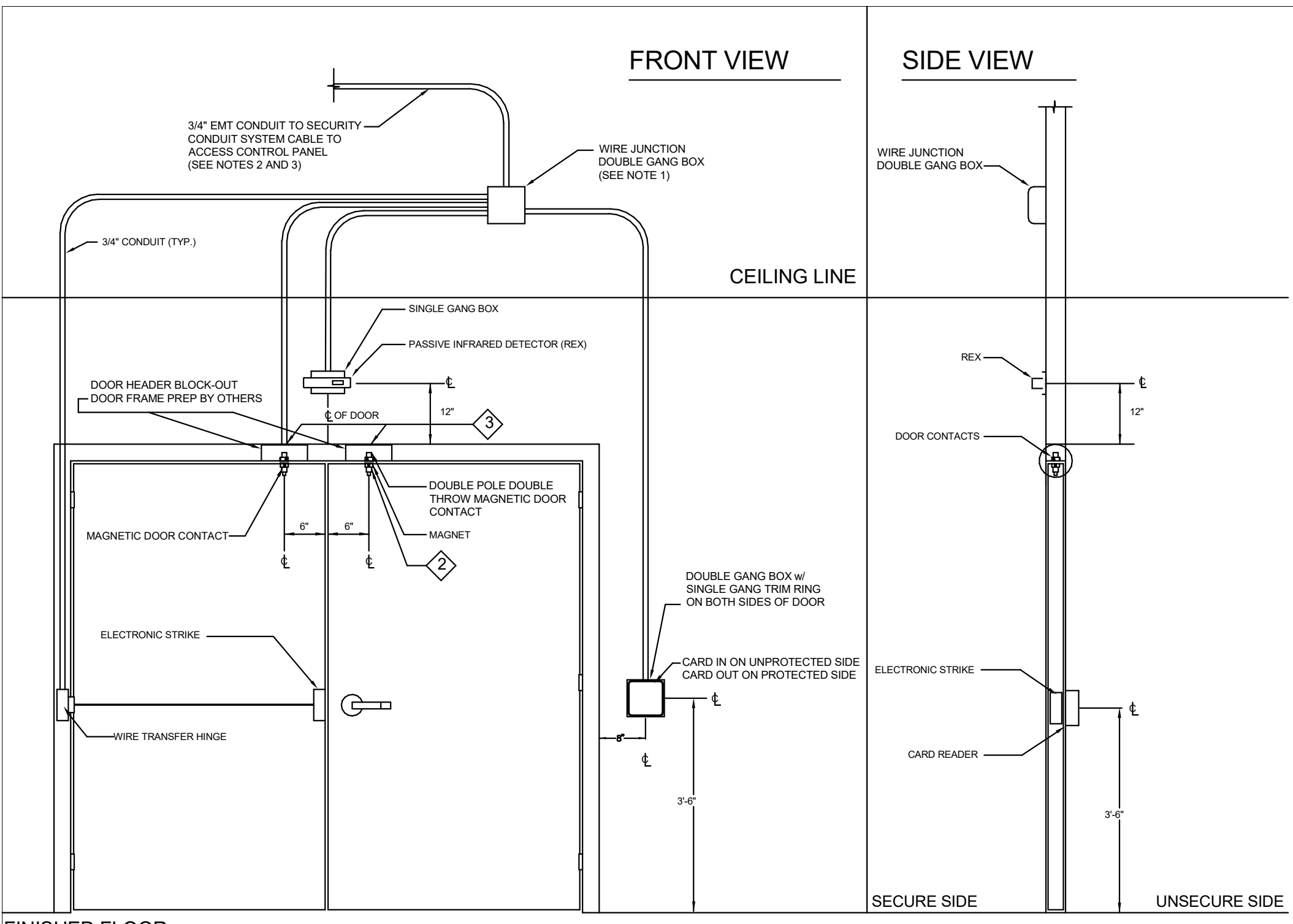
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GENERAL NOTES
 A. DRAWINGS ARE SHOWN FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR TO PROVIDE DEVICES, WIRING AND CONDUIT PER RECOMMENDATIONS AND REQUIREMENTS PER HCSO APPROVED DESIGN.



1 DOUBLE DOOR WITH DPDT, DC, CR AND ES

OPERATION
 Door is always locked from outside, access to secured area is only possible by presenting authorized card to card reader or by using bypass key. The door is always unlocked in the direction of egress. Activation of inside lock lever will allow free egress at all times.

- INSTALLATION**
- 1 Drill hole in head of frame 6" from strike side of frame for recessed door contact.
 - 2 Drill hole in top of door for door contact.
 - 3 Stub flex conduit from junction box into door contact.
 - 4 Single gang box concealed in wall for RTE motion sensor.

- EQUIPMENT**
- (2) Recessed Door Contacts DPDT
 - (1) Card Reader
 - (1) Request To Exit Motion Sensor
 - (1) Door Strike
 - (1) Transfer Hinge

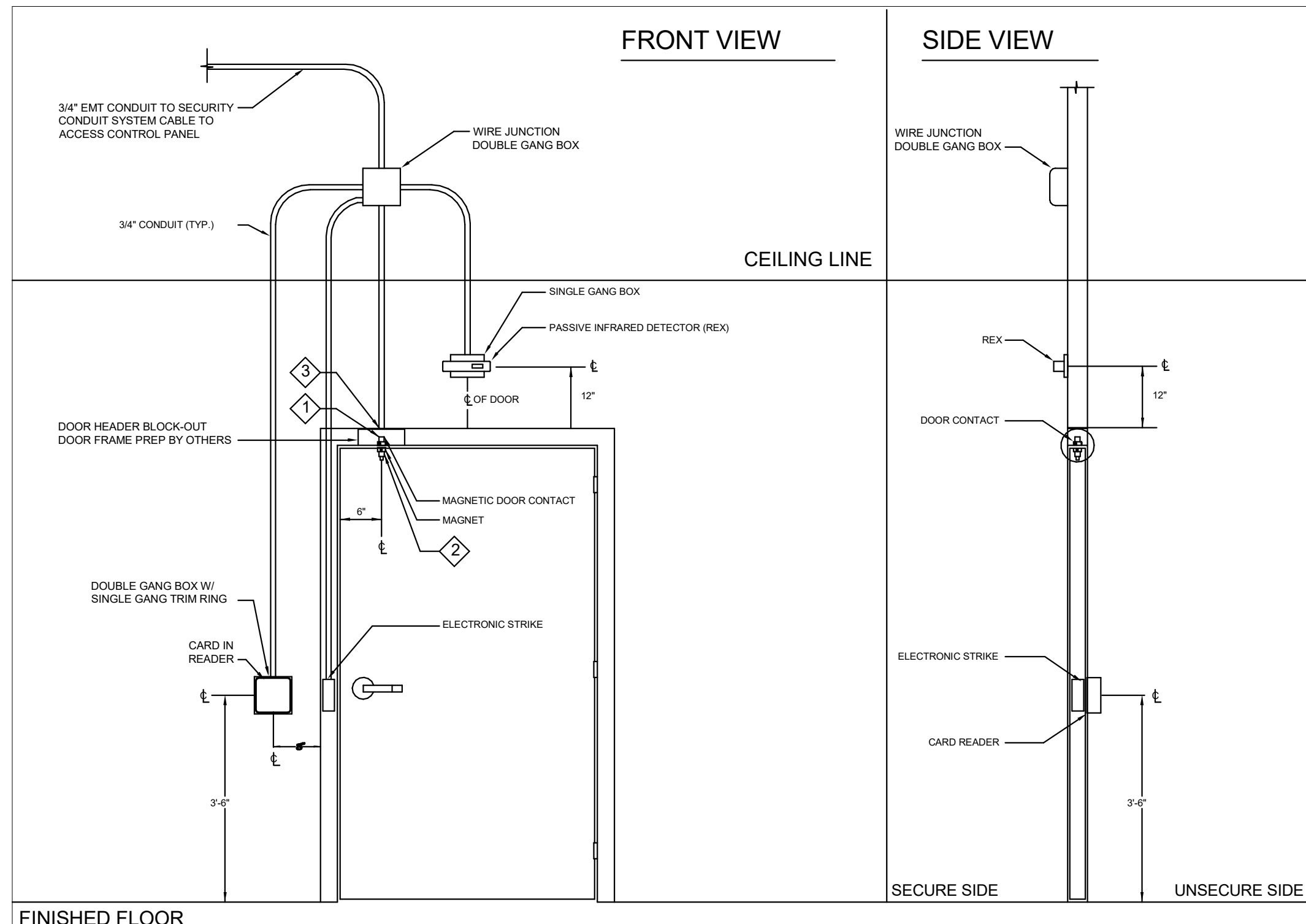
GENERAL NOTES

1. THE WIRE JUNCTION SHALL BE MOUNTED ABOVE THE DOOR OR ABOVE THE ACCESSIBLE CEILING, WHERE APPLICABLE, ON THE SECURE SIDE AS SHOWN.
2. PROVIDE SINGLE GANG ELECTRICAL BOX (HORIZONTALLY MOUNTED) FOR THE REX DEVICE MOUNTED ABOVE DOOR ON THE SECURE SIDE AS SHOWN.
3. PROVIDE A DOUBLE GANG ELECTRICAL BOXES WITH SINGLE GANG TRIM RING FOR READER MOUNTED ON THE UN-SECURE SIDE OF THE DOOR.
4. THE IDENTIFIED CONDUIT IS NOT REQUIRED AFTER IT EXTENDS ABOVE THE WALL AND ENTERS INTO A PLENUM SPACE.
5. ALL CONDUIT SHALL BE 3/4" UNLESS SPECIFIED OTHERWISE. ALL CONDUIT SHALL BE INSTALLED INSIDE OF WALL. FLEXIBLE CONDUIT MAY BE USED IF NECESSARY. EACH CONDUIT RUN SHALL BE FURNISHED WITH A PULL STRING.

NFPA COMPLIANCE
 NFPA 101: 7.2.1.5.3

DPDT, DC, CR, ES

D-00



2 SINGLE DOOR WITH REX, DC, ES, CR

OPERATION
 Door is always locked from outside, access to secured area is only possible by presenting authorized card to card reader or by using bypass key. This door is always unlocked in the direction of egress. Activation of inside lock lever will allow free egress at all times. REX motion is for shunting of door alarm only and not controlling locking/unlocking of electronic locking hardware.

- INSTALLATION**
- 1 Drill hole in head of frame 6" from strike side of frame for recessed door contact.
 - 2 Drill hole in top of door for door contact.
 - 3 Stub flex conduit from junction box into door contact.

- EQUIPMENT**
- (1) Recessed Door Contact
 - (1) Card Reader
 - (1) Electronic Strike
 - (1) Request to Exit Motion Sensor

GENERAL NOTES

1. THE WIRE JUNCTION SHALL BE MOUNTED ABOVE THE DOOR OR ABOVE THE ACCESSIBLE CEILING, WHERE APPLICABLE, ON THE SECURE SIDE AS SHOWN.
2. PROVIDE SINGLE GANG ELECTRICAL BOX (HORIZONTALLY MOUNTED) FOR THE REX DEVICE MOUNTED ABOVE DOOR ON THE SECURE SIDE AS SHOWN.
3. PROVIDE A DOUBLE GANG ELECTRICAL BOXES WITH SINGLE GANG TRIM RING FOR READER MOUNTED ON THE UN-SECURE SIDE OF THE DOOR. PROVIDE A CONDUIT STUB TO DOOR FRAME FOR ELECTRIC STRIKE.
4. THE IDENTIFIED CONDUIT IS NOT REQUIRED AFTER IT EXTENDS ABOVE THE WALL AND ENTERS INTO A PLENUM SPACE.
5. ALL CONDUIT SHALL BE 3/4" UNLESS SPECIFIED OTHERWISE. ALL CONDUIT SHALL BE INSTALLED INSIDE OF WALL. FLEXIBLE CONDUIT MAY BE USED IF NECESSARY. EACH CONDUIT RUN SHALL BE FURNISHED WITH A PULL STRING.

NFPA COMPLIANCE
 NFPA 101: 7.2.1.5.3

REX, DC, ES, CR

D-00



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 813.289.4700
 COA # 8304
 Project 2020606

Hillsborough County Sheriff's Office Regional Canine Training Center
 2102 N FALKENBURG RD
 TAMPA, FL 33619

SECURITY DOOR ACCESS DETAILS

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1	PERMIT SET	01/11/2024
	ADDENDUM #2	08/02/2024

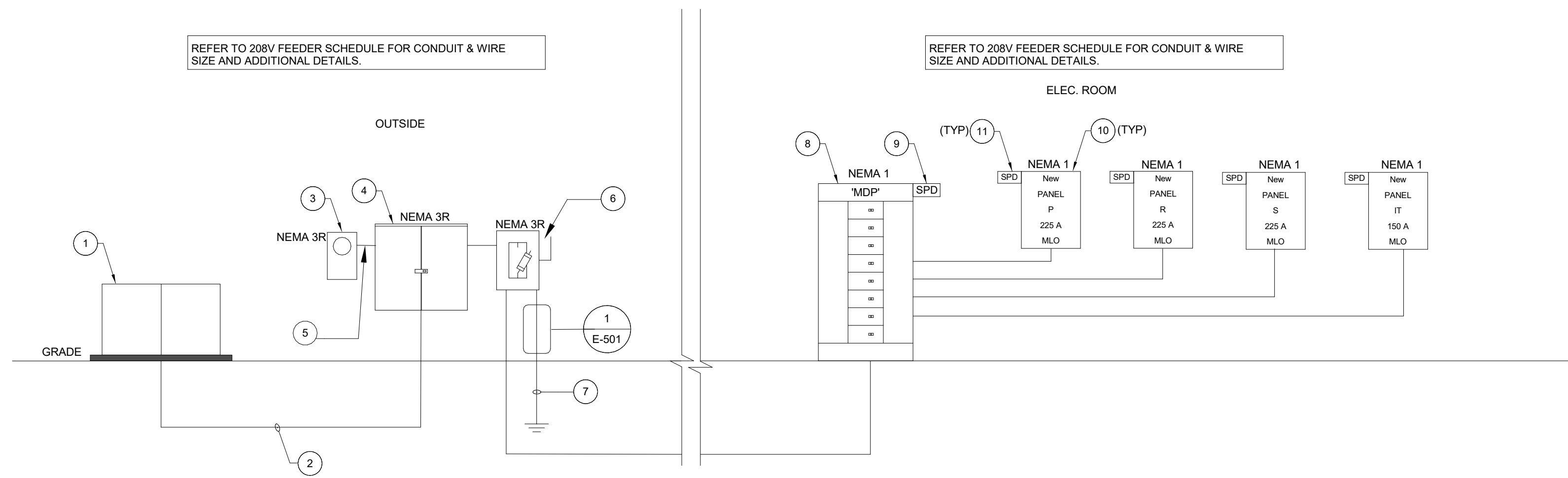
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 E-503



1 RISER DIAGRAM - 208/120V-3PH-4W
SCALE: NOT TO SCALE

208V FEEDER SCHEDULE													
Feeder Termination	Feeder Source	Design Load KVA	Breaker Size Amps	Poles	Neutral (Y/N)	Feeder Material	Number of Runs	Wires per Run	Neutral Conductors per Run	Wire Size	Ground Size	Conduit Size	Fault Current kAIC
CT Cabinet	T1	300	800	3	Y	Cu	3	3	300 KCMIL	300 KCMIL	None	2 1/2"	50.00
Main Disconnect	CT Cabinet	245	800	3	Y	Cu	3	3	300 KCMIL	300 KCMIL	1/0 AWG	E.G.	48.39
MDP	Main Disconnect	245	800	3	Y	Cu	3	3	300 KCMIL	300 KCMIL	1/0 AWG	E.G.	27.02
Panel 'P'	MDP	60	200	3	Y	Cu	1	3	3/0 AWG	#6 AWG	E.G.	2"	24.85
Panel 'R'	MDP	60	200	3	Y	Cu	1	3	3/0 AWG	#6 AWG	E.G.	2"	24.85
Panel 'S'	MDP	60	200	3	Y	Cu	1	3	3/0 AWG	#6 AWG	E.G.	2"	24.85
PANEL 'IT'	MDP	40	150	3	Y	Cu	1	3	1/0 AWG	#6 AWG	E.G.	2"	18.59
LIT Station	Panel 'P'	3.2	30	2	Y	Cu	1	2	NA	#3 AWG	#2 AWG	E.G.	6.66

NOTES:
 1. FEEDER AMPACITIES BASED ON NEC TABLE 310.16 FOR 75°C.
 2. EQUIPMENT GROUND (E.G.) SIZED PER NEC TABLE 250.122.
 3. TRANSFORMER PRIMARY AND SECONDARY OVERCURRENT PROTECTION SIZED IN ACCORDANCE WITH NEC ARTICLES 240 AND 450.
 4. ALL CONDUITS SIZED PER NEC TABLE C.1 FOR THHN, THWN, THWN-2.
 5. ALL K RATED TRANSFORMERS SECONDARY FEEDERS SIZED WITH 80% DERATING FACTOR AND 200% RATED NEUTRAL.

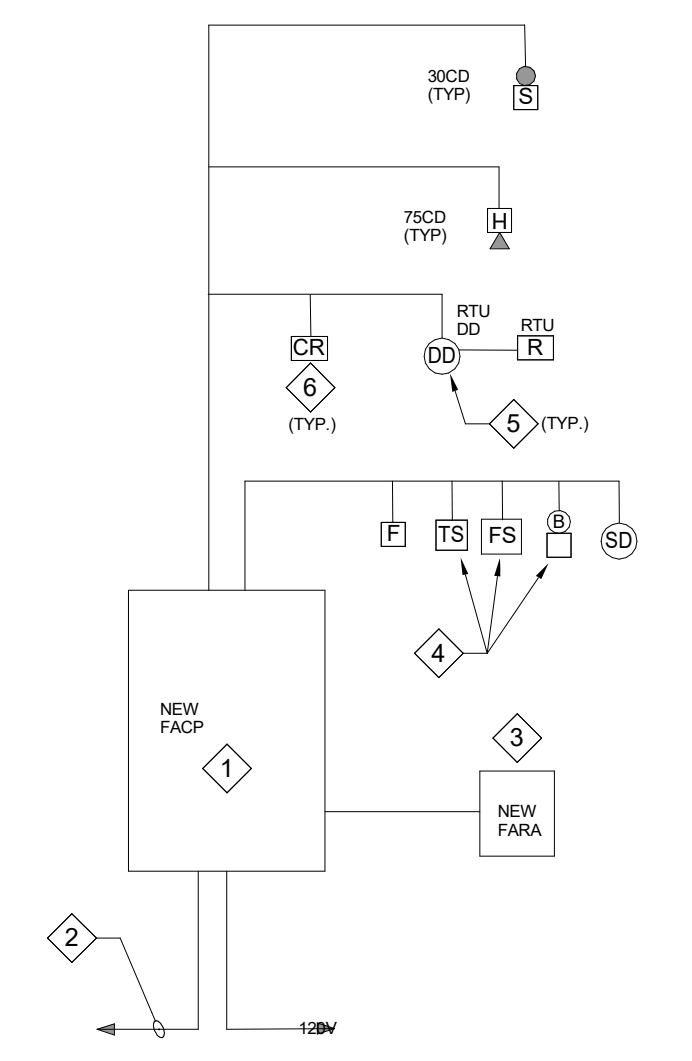
PROPOSED TRANSFORMER SCHEDULE						
Name	Size KVA	Rating	Primary Voltage	Secondary Voltage	Fault kAIC at Secondary	G.E.C.
T1	225	Standard	Utility	208V/3 Phase	64.06	None

- GENERAL NOTES**
- REFER TO LOCAL UTILITY STANDARD FOR ELECTRICAL SERVICE REQUIREMENTS FOR COORDINATION WITH INSTALLATION OF TRANSFORMER AND METERING EQUIPMENT.
 - REFER TO SCHEDULES FOR ADDITIONAL INFORMATION.
 - REFER TO "208V FEEDER SCHEDULE" FOR ADDITIONAL INFORMATION.
 - CONTRACTOR SHALL VERIFY AIC RATING OF THE TRANSFORMER WITH LOCAL UTILITY. AVAILABLE FAULT CURRENT LABELING IN LIEU OF THE MAXIMUM AVAILABLE FAULT CURRENT MARKINGS AS REQUIRED BY THE NEC. A PERMANENTLY AFFIXED LABEL SHALL BE PROVIDED WITH THE AVAILABLE FAULT CURRENT AT THE TIME OF INSTALLATION AND CALCULATION. THE LABEL SHALL BE 2"X3" IN SIZE AND SHALL BE BLUE LETTERING ON THE CONTRASTING BACKGROUND. THE LABEL SHALL ALSO INCLUDE THE DATE OF THE SHORT CIRCUIT FAULT CURRENT CALCULATION.

- KEYNOTES**
- NEW PAD MOUNT UTILITY TRANSFORMER: T1 FROM TECO.
 - NEW SECONDARY ELECTRICAL UNDERGROUND SERVICE FEEDERS. REFER TO THE 208V FEEDER SCHEDULE ON THIS SHEET FOR DETAILS.
 - NEW ELECTRIC UTILITY METER AND SELF-CONTAINED METER ENCLOSURE. CONTRACTOR SHALL COORDINATE AND SUBMIT SELF-CONTAINED METER SOCKET ENCLOSURE TO TECO FOR REVIEW AND APPROVAL PRIOR TO PROCUREMENT. METER SHALL BE PROVIDED BY UTILITY COMPANY.
 - NEW NEMA 3R 800 AMP CT CABINET FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE SIZE AND INSTALLATION REQUIREMENTS WITH TECO.
 - MINIMUM 1-1/4" RIGID METALLIC OR SCHEDULE 80 PVC CONDUIT WITH PULL STRING. REFER TO TECO SEER STANDARD ELECTRICAL SERVICE REQUIREMENTS FOR ADDITIONAL INFORMATION.
 - 800 AMPS FUSED MAIN DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE.
 - PROVIDE 20 Cu GROUNDING ELECTRODE CONDUCTOR FOR MAIN SERVICE DISCONNECT. REFER TO TYPICAL GROUNDING DETAIL ON SHEET E-501 FOR ADDITIONAL DETAILS.
 - 800 AMPS MAIN DISTRIBUTION I-LINE PANELBOARD LABELED AS MDP. REFER TO THE 208V FEEDER SCHEDULE ON THIS SHEET FOR CLEAR OVER CURRENT PROTECTION SIZE.
 - PO PROTECTION - SURGE PROTECTION DEVICE POS300-120208.
 - BRANCH PANELBOARDS. REFER TO THE 208V FEEDER SCHEDULE ON THIS SHEET FOR DETAILS.
 - PO PROTECTION - SURGE PROTECTION DEVICE POC160-120208.

#	SYSTEM INPUTS	CONTROL UNIT SIGNAL ANNUNCIATION NOTIFICATION SUPPLEMENTARY													
		A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	MANUAL FIRE ALARM PULL STATION	X	X						X	X					1
2	SMOKE DETECTOR	X	X						X	X					2
3	INDUCT SMOKE DETECTOR	X	X						X	X					3
4	TAMPER SWITCH		X	X					X	X					4
5	FIRE ALARM AC POWER FAILURE				X	X			X	X					5
6	FIRE ALARM SYSTEM LOW BATTERY				X	X			X	X					6
7	OPEN CIRCUIT				X	X			X	X					7
8	GROUND FAULT				X	X			X	X					8
9	NOTIFICATION APPLIANCE SHORT CIRCUIT				X	X			X	X					9
10	WATERFLOW SWITCH		X	X					X	X					10
11															11

2 FIRE ALARM INPUT/OUTPUT MATRIX (TYPICAL)
SCALE: NOT TO SCALE



3 FIRE ALARM RISER DIAGRAM (TYPICAL)
SCALE: NOT TO SCALE

- FIRE ALARM RISER KEYNOTES (TYP.)**
- NEW FIRE ALARM CONTROL PANEL WITH DIGITAL ALARM COMMUNICATION TRANSMITTER. BASIS OF DESIGN: NOTIFIER.
 - PROVIDE NEW DUAL TECHNOLOGY METHODS TO TRANSMIT ANY SYSTEM STATUS AND ALARM SIGNAL TO CENTRAL SUPERVISION STATION, IF NOT EXISTING.
 - NEW FIRE ALARM ANNUNCIATION PANEL. THE ANNUNCIATION PANEL SHALL BE PROGRAMMED IN A WAY SUCH THAT IT CAN IDENTIFY ANIMAL AREAS WITHIN THE BUILDING.
 - TAMPER SWITCH, FLOW SWITCH, AND BELL PROVIDED BY SPRINKLER CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRING AND MAKE CONNECTIONS AS FOLLOWS:
 - PROVIDE FIRE ALARM CONNECTIONS AS INDICATED ON THE RISER DIAGRAM. THE FLOW AND TAMPER SWITCH ZONES ARE TO BE SUPERVISED. FIRE ALARM SIGNAL DEVICES ARE TO BE ACTIVATED UPON ACTIVATION OF THE SPRINKLER SYSTEM.
 - WIRE FLOW SWITCH CONTACT (N.O) AND TAMPER SWITCH CONTACT (N.O) IN PARALLEL WITH EACH OTHER THEN IN SERIES WITH BELL. CONTRACTOR IS TO VERIFY THAT THE BELL WILL BE ACTIVATED UPON ACTIVATION OF THE SPRINKLER SYSTEM.
 - CONTRACTOR IS TO VERIFY THAT THE FLOW SWITCHES AND TAMPER SWITCHES HAVE TWO NORMALLY OPEN CONTACTS EACH. CONTRACTOR IS TO PROVIDE ADDRESSABLE RELAY MODULES IF REQUIRED.
 - NEW RTU TO BE PROVIDED WITH NEW DUCT SMOKE DETECTOR THAT SHALL BE SUPERVISED BY THE FIRE ALARM SYSTEM. INITIATION SHALL CAUSE ALL UNITS TO SHUT DOWN. PROVIDE A REMOTE TEST SWITCH FOR EACH RTU SMOKE DETECTOR. COORDINATE EXACT LOCATION OF SWITCH WITH FIRE MARSHAL PRIOR TO ROUGH-IN. COORDINATE QUANTITY OF DEVICES WITH MECHANICAL CONTRACTOR.
 - CARD READERS TO BE DE-ACTIVATED UPON INITIATION OF FIRE ALARM SYSTEM SO THAT THE CONTROLLED DOORS ARE UNLOCKED. COORDINATE TIE IN WITH SYSTEM INSTALLER AND FACILITY SECURITY PERSONNEL PRIOR TO CONNECTION.

BRANCH CIRCUIT COPPER WIRE AND CONDUIT SCHEDULE										
Designation	Parallel Runs	3 Phase, 4 Wire			3 or 1 Phase, 3 Wire			1 Phase, 2 Wire		
		Conductors (AWG/kcmil)	Equipment Ground (AWG/kcmil)	Conduit	Conductors (AWG/kcmil)	Equipment Ground (AWG/kcmil)	Conduit	Conductors (AWG/kcmil)	Equipment Ground (AWG/kcmil)	Conduit
C_20	1	4 # 12	1 # 12	3/4"	3 # 12	1 # 12	3/4"	2 # 12	1 # 12	3/4"
C_30	1	4 # 10	1 # 10	3/4"	3 # 10	1 # 10	3/4"	2 # 10	1 # 10	3/4"
C_40	1	4 # 8	1 # 10	1"	3 # 8	1 # 10	3/4"	2 # 8	1 # 10	3/4"
C_60	1	4 # 6	1 # 10	1"	3 # 6	1 # 10	1"	2 # 6	1 # 10	1"
C_100	1	4 # 3	1 # 8	1-1/2"	3 # 3	1 # 8	1-1/2"	2 # 3	1 # 8	1"

Notes:
 1. All conductors indicated in schedule shall be copper.
 2. C2 denotes 1 phase, 2 wire. C3 denotes 1 or 3 phase, 3 wire. C4 denotes 3 phase, 4 wire.
 3. Designation followed with "V" indicates conductor size increased due to voltage drop.



Hillsborough County Sheriff's Office Regional Canine Training Center
2102 N FALKENBURG RD
TAMPA, FL 33619

ELECTRICAL RISER DIAGRAM & SCHEDULES

#	ISSUED FOR PERMIT SET	DATE

DRAWN BY: SKSY
 REVIEW BY: JAR
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 615 Celebration Ave
 Celebration, FL 34747
 P: 888.962.1862
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2023559

E-601

Branch Panel: P

Location: Space 238
Supply From: MDP
Mounting: SURFACE
Enclosure: NEMA1

Volts: 208Y/120
Phases: 3
Wires: 4
Ground Bus:

A.I.C. Rating: 42,000
Mains Type: MLO
Mains Rating:
Bus Rating: 225A
GFP: No

Notes:
** SEE FEEDER SCHEDULE FOR WIRE SIZE

CCT	Circuit Description	Rating	Poles	Options	Conduit/Wire Size	A	B	C	A	B	C	Conduit/Wire Size	Options	Poles	Rating	Circuit Description	CCT
1	SPARE	30 A	2			0 VA			2500 VA			C3-30		2	30 A	DRYER	2
3						0 VA			2500 VA			C3-30		2	30 A	DRYER	4
5	DSSO-2	30 A	2		C3-30	1144 VA		1144 VA	1500 VA			C2-20	GFCI	1	20 A	ICE MAKER	6
7						0 VA			1500 VA			C2-20		1	20 A	ICE MAKER	8
9	SPARE	20 A	2			0 VA			1290 VA			C2-20		1	20 A	ICE MAKER	10
11						0 VA			1290 VA			C2-20		1	20 A	ICE MAKER	12
13	MTR - LIFT STATION PUMP (**)	30 A	2		C3-100	1560 VA			200 VA			C2-20		1	20 A	LTG - COR. 100 C, D, E & G	14
15						1560 VA			200 VA			C2-20		1	20 A	FUTURE LANDSCAPING	16
17	HCSO SIGNAGE	20 A	1		C2-20	200 VA			1237 VA			C2-20		1	20 A	LTG - EXTERIOR SITE	18
19	IRRIGATION PUMP	20 A	1		C2-20	200 VA			780 VA			C2-20		1	20 A	ELECTRIC GATE	20
21	HOSE REEL BOOSTER PUMP (FUTURE)	20 A	2		GFCI C2-30	1632 VA		1192 VA	1192 VA			C2-30	GFCI	2	20 A	HOSE REEL BOOSTER PUMP (FUTURE)	22
23						0 VA			1192 VA			C2-30	GFCI	2	20 A	HOSE REEL BOOSTER PUMP (FUTURE)	24
25	HOSE REEL BOOSTER PUMP (FUTURE)	20 A	2		GFCI C2-30	1192 VA		1192 VA	0 VA			C2-30	GFCI	2	20 A	SPARE	26
27	SPARE	--	--			0 VA			0 VA					1	--	SPARE	28
29	SPARE	--	--			0 VA			0 VA					1	--	SPARE	30
						9928 VA		10050 VA		7297 VA							
						86.1 A		87.1 A		60.8 A							
Load Classification						Connected Load	Demand Factor	Estimated Demand	Panel Totals								
Cooling						2288 VA	100.00%	2288 VA	Total Conn. Load: 27275 VA								
Motor						7929 VA	107.51%	8525 VA	Total Est. Demand: 30085 VA								
MTR						3120 VA	125.00%	3900 VA	Total Conn.: 75.7 A								
RCPT						200 VA	100.00%	200 VA	Total Est. Demand: 83.5 A								
MOTORS						1632 VA	125.00%	2040 VA									
R						3000 VA	100.00%	3000 VA									
PN						5000 VA	100.00%	5000 VA									
LITES						4106 VA	125.00%	5132 VA									

Notes: (**)- COORDINATE EXACT CIRCUIT BREAKER SIZE WITH VENDOR PRIOR TO INSTALLATION.
Motor = LARGEST MOTOR
MN = MOTOR (NON-SEASONAL)
L = LIGHTING (CONTINUOUS)
R = RECEPTACLE
C = CONTINUOUS
PN = POWER NON-SEASONAL (NON-CONTINUOUS)
VT = VERTICAL TRANSPORTATION

Branch Panel: R

Location: Space 238
Supply From: MDP
Mounting: SURFACE
Enclosure: NEMA1

Volts: 208Y/120
Phases: 3
Wires: 4
Ground Bus:

A.I.C. Rating: 42,000
Mains Type: MLO
Mains Rating:
Bus Rating: 225A
GFP: No

Notes:

CCT	Circuit Description	Rating	Poles	Options	Conduit/Wire Size	A	B	C	A	B	C	Conduit/Wire Size	Options	Poles	Rating	Circuit Description	CCT
1	VAVs 1,2,3,4	60 A	2		C3-60	5000 VA			4250 VA			C3-60		2	50 A	VAVs 5,6,7,8,9	2
3						5000 VA			4250 VA			C3-60		2	50 A	VAVs 5,6,7,8,9	4
5	GFCI Elec. Room	20 A	1		C2-20	180 VA			180 VA			C2-20		1	20 A	GFCI Elec Room	6
7	Icemaker in breakroom	20 A	1		C2-20	1500 VA		15 VA	15 VA			C2-20		1	20 A	EF-3	8
9	PN-LCP-24	20 A	1		C2-20	500 VA			250 VA			C2-20		1	20 A	EF-1,2	10
11	LTG - 100A, 105-107, 110,113A	20 A	1		C2-20	1473 VA		1419 VA	1464 VA			C2-20	GFCI	1	20 A	WTR COOLER	12
13	LTG - 207, 208, 213, 214, 216	20 A	1		C2-20	500 VA			500 VA			C2-20		1	20 A	LTG -	14
15	FACP	20 A	1		C2-20	780 VA			1344 VA			C2-20		1	20 A	FARA	16
17	EF-4	20 A	1		C2-20	500 VA			1000 VA			C2-20	GFCI	1	20 A	WTR COOLER	18
19	VAVs 10,11	30 A	2		C3-30	500 VA			1000 VA			C2-20		1	20 A	SPARE	20
21	EF-5, 6, 7, 8, 9, 10	20 A	1		C2-20	780 VA			0 VA			C2-20		1	20 A	SPARE	22
23	SPARE	--	--			0 VA			0 VA					1	--	SPARE	24
25	SPARE	--	--			0 VA			0 VA					1	--	SPARE	26
27	SPARE	--	--			0 VA			0 VA					1	--	SPARE	28
29	SPARE	--	--			0 VA			0 VA					1	--	SPARE	30
						15203 VA		11792 VA		4903 VA							
						135.5 A		107.1 A		40.9 A							
Load Classification						Connected Load	Demand Factor	Estimated Demand	Panel Totals								
Heating						19000 VA	100.00%	19000 VA	Total Conn. Load: 31898 VA								
Lighting						500 VA	125.00%	625 VA	Total Est. Demand: 33481 VA								
Motor						1057 VA	103.12%	1090 VA	Total Conn.: 88.5 A								
SPEC						780 VA	100.00%	780 VA	Total Est. Demand: 92.9 A								
L						2864 VA	125.00%	3581 VA									
R						4860 VA	100.00%	4860 VA									
LITES						2837 VA	125.00%	3546 VA									

Notes:
Motor = LARGEST MOTOR
MN = MOTOR (NON-SEASONAL)
L = LIGHTING (CONTINUOUS)
R = RECEPTACLE
C = CONTINUOUS
PN = POWER NON-SEASONAL (NON-CONTINUOUS)
VT = VERTICAL TRANSPORTATION

GFCI = GROUND FAULT CIRCUIT INTERRUPTER
1. CONTINUED ROOMS - 113B, 116, 201-203

Branch Panel: MDP

Location: Space 238
Supply From: MDP
Mounting: SURFACE
Enclosure: NEMA1

Volts: 208Y/120
Phases: 3
Wires: 4
Ground Bus:

A.I.C. Rating: 42,000
Mains Type: MLO
Mains Rating:
Bus Rating: 800 Amps
GFP: No

Notes:

CCT	Circuit Description	Rating	Poles	Options	Conduit/Wire Size	A	B	C	A	B	C	Conduit/Wire Size	Options	Poles	Rating	Circuit Description	CCT	
1						9928 VA			9520 VA			SEE FEEDER SCHEDULE					2	
3	PANEL 'P'	200 A	3			10050...			8240 VA			SEE FEEDER SCHEDULE			3	200 A	PANEL 'S'	4
5						7297 VA			8420 VA			SEE FEEDER SCHEDULE					6	
7						7297 VA			8420 VA			SEE FEEDER SCHEDULE					8	
9	PANEL 'R'	200 A	3			15203...			7205 VA			SEE FEEDER SCHEDULE			3	60 A	RTU	10
11						11792...			7205 VA			SEE FEEDER SCHEDULE					12	
13						3000 VA			7864 VA			SEE FEEDER SCHEDULE			3	150 A	PANEL 'IT'	14
15	EWB	35 A	3		C3-40	3000 VA			7144 VA			SEE FEEDER SCHEDULE					16	
17						3000 VA			7144 VA			SEE FEEDER SCHEDULE					18	
19						4923 VA			961 VA			SEE FEEDER SCHEDULE			3	15 A	AHU-1	20
21	CU-1	50 A	3		C3-60	4923 VA			961 VA			SEE FEEDER SCHEDULE					22	
23						4923 VA			961 VA			SEE FEEDER SCHEDULE					24	
25						2118 VA			961 VA			SEE FEEDER SCHEDULE			3	15 A	AHU-2	26
27	CU-2	30 A	3		C3-30	2118 VA			961 VA			SEE FEEDER SCHEDULE					28	
29						0 VA			0 VA			SEE FEEDER SCHEDULE			1	20 A	SPARE	30
31						0 VA			0 VA			SEE FEEDER SCHEDULE			1	20 A	SPARE	32
33	SPARE	50 A	3			0 VA			0 VA			SEE FEEDER SCHEDULE			1	20 A	SPARE	34
35						0 VA			0 VA			SEE FEEDER SCHEDULE			1	20 A	SPARE	36
37	SPARE	--	--			0 VA			0 VA			SEE FEEDER SCHEDULE			3	60 A	SURGE PROTECTION	38
39	SPARE	--	--			0 VA			0 VA			SEE FEEDER SCHEDULE					40	
41	SPARE	--	--			0 VA			0 VA			SEE FEEDER SCHEDULE					42	
						61682 VA		56394 VA		45968 VA								
						527.4 A		483.3 A		383.1 A								
Load Classification						Connected Load	Demand Factor	Estimated Demand	Panel Totals									
Cooling						25700 VA	100.00%	25700 VA	Total Conn. Load: 164045 VA									
Heating						24764 VA	100.00%	24764 VA	Total Est. Demand: 158365 VA									
Lighting						500 VA	125.00%	625 VA	Total Conn.: 455.3 A									
Motor						8986 VA	106.63%	9582 VA	Total Est. Demand: 439.6 A									
MTR						3120 VA	125.00%	3900 VA										
RCPT						560 VA	100.00%	560 VA										
MOTORS						1632 VA	125.00%	2040 VA										
SPEC						780 VA	100.00%	780 VA										
AC						21616 VA	100.00%	21616 VA										
L						2864 VA	125.00%	3581 VA										
R						34580 VA	64.46%	22290 VA										
PN						23000 VA	100.00%	23000 VA										
LITES						6942 VA	125.00%	8678 VA										
C						9000 VA	125.00%	11250 VA										

Notes:
Motor = LARGEST MOTOR
MN = MOTOR (NON-SEASONAL)
L = LIGHTING (CONTINUOUS)
R = RECEPTACLE
C = CONTINUOUS
PN = POWER NON-SEASONAL (NON-CONTINUOUS)
VT = VERTICAL TRANSPORTATION

Branch Panel: S

Location: Space 238
Supply From: MDP
Mounting: SURFACE
Enclosure: NEMA1

Volts: 208Y/120
Phases: 3
Wires: 4
Ground Bus:

A.I.C. Rating: 42,000
Mains Type: MLO
Mains Rating:
Bus Rating: 225 A
GFP: No

Notes:

CCT	Circuit Description	Rating	Poles	Options	Conduit/Wire Size	A	B	C	A	B	C	Conduit/Wire Size	Options	Poles	Rating	Circuit Description	CCT
1	R- 100A, 100C	20 A	1		C2-20	1080...			500 VA			C2-20	GFCI	1	20 A	R- REFRIG.	2
3	R- 103,108, 109	20 A	1		C2-20	1080 VA			500 VA			C2-20		1	20 A	R- VENDING	4
5	R- 111, 121	20 A	1		C2-20	1080 VA			500 VA			C2-20		1	20 A	R- VENDING	6
7	R- 107 COPY	20 A	1		C2-20	1460...			1080 VA			C2-20		1	20 A	R- 115	8
9	R- 105, 106	20 A	1		C2-20	900 VA			1080 VA			C2-20		1	20 A	R- 115	10
11	R- 101	20 A	1		C2-20	1080 VA			1260...			C2-20		1	20 A	R- 113A, 114A,...	12
13	R- 101, 102	20 A	1		C2-20	1080...			900 VA			C2-20		1	20 A	R- 113A, 114A,...	14
15	R- 101	20 A	1		C2-20	1080 VA			180 VA			C2-20		1	20 A	RECIRC. PUMP	16
17	R- 101	20 A	1		C2-20	720 VA			0 VA			C2-20		1	20 A	SPARE	18
19	R- 101	20 A	1		C2-20	720 VA			540 VA			C2-20		1	20 A	R- EXTERIOR	20
21	R- 101	20 A	1		C2-20	720 VA			900 VA			C2-20		1	20 A	R- 208, 214, 216	22
23	R- 101	20 A	1		C2-20	1080 VA			1260...			C2-20		1	20 A	R- 207, 213	24
25	R- 102	20 A	1		C2-20	720 VA			1080 VA			C2-20		1	20 A	R- 204	26
27	R- 201, 202	20 A	1		C2-20	900 VA			900 VA			C2-20		1	20 A	R- 205	28
29	R- 219	20 A	1		C2-20	900 VA			540 VA			C2-20		1	20 A	EXTERIOR GFCI	30
31	EXTERIOR GFCI	20 A	1		C2-20	360 VA			0 VA			C2-20		1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA			0 VA					1	20 A	SPARE	34
35	SPARE	20 A	1			0 VA			0 VA					1	20 A	SPARE	36
37	SPARE	20															

Branch Panel: IT																	
Location: Space 233				Volts: 208Y/120				A.I.C. Rating: 22,000									
Supply From: MDP				Phases: 3				Mains Type: MLO									
Mounting: SURFACE				Wires: 4				Mains Rating:									
Enclosure: NEMA1				Ground Bus:				Bus Rating: 150 A									
								GFP: No									
Notes:																	
CCT	Circuit Description	Rating	Poles	Option	Conduit/Wire Size	A	B	C	A	B	C	Conduit/Wire Size	Option	Rating	Circuit Description	CCT	
1						6000 VA			0 VA							2	
3	IT RACK	60 A	3		C4-60	6000 VA	6000 VA		0 VA			C4-60		3	60 A	IT RACK	4
5																	6
7	DSSO-1	30 A	2		C3-30	1144 VA			180 VA			C2-20		1	20 A	DEDICATED IT QUAD	8
9						1144 VA	1144 VA		0 VA					1	20 A	SPARE	10
11	DEDICATED IT QUAD	20 A	1		C2-20			180 VA			0 VA			1	20 A	SPARE	12
13	IT ROOM RECEPTACLE	20 A	1		C2-20	540 VA			0 VA					1	20 A	SPARE	14
15	SPARE	20 A	1				0 VA				0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA			0 VA			1	20 A	SPARE	18
						7864 VA		7144 VA			6180 VA						
						66.8 A		60.8 A			51.5 A						
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals									
Cooling		2288 VA		100.00%		2288 VA											
R		900 VA		100.00%		900 VA		Total Conn. Load: 21188 VA									
PN		18000 VA		100.00%		18000 VA		Total Est. Demand: 21188 VA									
								Total Conn.: 58.8 A									
								Total Est. Demand: 58.8 A									
Notes:																	
Motor = LARGEST MOTOR																	
MN = MOTOR (NON-SEASONAL)																	
L = LIGHTING (CONTINUOUS)																	
R = RECEPTACLE																	
C = CONTINUOUS																	
PN = POWER NON-SEASONAL (NON-CONTINUOUS)																	
VT = VERTICAL TRANSPORTATION																	

LIGHTING CONTROL DEVICES SCHEDULE						
TAG	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	QTY	CONTROL WIRING	MOUNTING
LCP-24	WATTSTOPPER	LMCP-24-10V	DLM Relay Panel with (24) 20 Amp Relays with 0-10v dimming. BacNet MSTP ready.	1	CAT5	SURFACE
INV1	WATTSTOPPER	CEPS-125-W	EMERGENCY CONTROLLER FOR EXTERIOR LIGHTING FIXTURE 'W1E' AND 'W1E'	1	CAT5	ELECTRICAL BOX
INV2	WATTSTOPPER	CEPS-250-W	EMERGENCY CONTROLLER FOR EXTERIOR LIGHTING FIXTURE 'W1E' AND 'W1E'	1	CAT5	ELECTRICAL BOX
OS2	WATTSTOPPER	LMDC-100	OCCUPANCY SENSOR, DUAL TECH, CEILING MOUNT	AS REQ	CAT5	CEILING
OS3	WATTSTOPPER	DW-301	COMBINATION OCCUPANCY SENSOR/SINGLE BUTTON SWITCH	AS REQ	120/277 LINE VOLTAGE	ELECTRICAL BOX
OS6	WATTSTOPPER	DW-311	OCCUPANCY SENSOR, DUAL TECH, WALL, 0-10V DIMMING	AS REQ	120/277 LINE VOLTAGE	ELECTRICAL BOX
D1	WATTSTOPPER	LMDM-101	DIMMER SWITCH	AS REQ	CAT5	ELECTRICAL BOX
PB1	WATTSTOPPER	LMSW-101	WATTSTOPPER DLM PUSH-BUTTON SWITCH, 1 BUTTON	AS REQ	CAT5	ELECTRICAL BOX
RC1	WATTSTOPPER	LMRC-111	ROOM CONTROLLER, 1-CIRCUIT, 0-10V DIMMING, 10A MAX	AS REQ	CAT5	ABOVE CEILING
S3	WTTSTOPPER	LMPO-200 with LMIN-104 interface	PHOTO SENSOR, OUTDOOR, REMOTE MOUNT, with Interface to DLM	AS REQ	CAT5	CEILING
LIGHTING CONTROLS SCHEDULE NOTES:						
1. THE EQUIPMENT USED FOR THE BASIS OF DESIGN IS WATTSTOPPER DLM CONTROLS.						
2. OTHER EQUIPMENT MAY BE SUBMITTED FOR APPROVAL UP TO 10 WORKING DAYS PRIOR TO BID DATE, TO ALLOW FOR PROPER EVALUATION. SUBMISSIONS WITHIN 10 WORKING DAYS PRIOR TO BID DATE WILL NOT BE EVALUATED. EQUIPMENT IS APPROVED THROUGH ADDENDUM ONLY.						

LIGHTING FIXTURE SCHEDULE										
TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	Type	VOLTS	MOUNTING	REMARKS	BALLAST/ TRANSFORMER	INPUT WATTS	
A	LITON	LCMPDR W EUD10 T35 PC	7" SURFACE DISK, 1100 LUMENS, WET LOCATION LISTED, NON CONDUCTIVE, 50,000 HOUR L70 RATED LIFE, 5 YEAR WARRANTY	80CRI/3500K	UNV	SURFACE		0-10V/10%	14	
B	DAYBRITE	2FGX G 45L 835 2 RS UNV DIM	2X2 TROFFER, CENTER DIFFUSER, 4500 LUMENS, 85,000 HOUR L70 PREDICTED LIFE, 5 YEAR WARRANTY	80CRI/3500K	UNV	RECESSED		0-10V/5%	43	
B1	DAYBRITE	2FGX G 45L 835 4 RS UNV DIM	2X4 TROFFER, CENTER DIFFUSER, 4800 LUMENS, 85,000 HOUR L70 PREDICTED LIFE, 5 YEAR WARRANTY	80CRI/3500K	UNV	RECESSED		0-10V/5%	36	
C	BEGHELLI	BS100 LED 4 SA HO WT40 120/277	VAPORTITE, 5041 LUMENS, IK05 RATED, IP66 WET LOCATION LISTED, 100,000 HOUR RATED LIFE, 5 YEAR WARRANTY	80CRI/4000K	UNV	PENDANT	FIELD VERIFY HEIGHT AND EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.	0-10V	40	
CE	BEGHELLI	BS100 LED 4 SA HO WT40 120/277 2AC-72	VAPORTITE, 5041 LUMENS, IK05 RATED, IP66 WET LOCATION LISTED, 100,000 HOUR RATED LIFE, 5 YEAR WARRANTY	80CRI/4000K	UNV	PENDANT	AIRPLANE HANGER UP TO 72" VERIFY HEIGHT IN FIELD W/ OWNER.	0-10V	40	
D	HE WILLIAMS	75S 4 L50 835 DIM UNV	4" STRIP, 5000 LUMENS, 50,000 HOUR L70 RATED LIFE, 5 YEAR WARRANTY	80CRI/3500K	UNV	SURFACE		0-10V/10%	33	
E	LITON	CH6LS1022 SW CR6L22 TS354 UED10	6" RECESSED DOWNLIGHT, WET LOCATION LISTED, SATIN HAZE REFLECTOR, SWITCHABLE LUMENS 1000, 1500, 2200, 50,0000 HOUR L70 RATED LIFE, 5 YEAR WARRANTY	80CRI/SET TO 35K	UNV	RECESSED		0-10V/5%	28	
EE	LITON	CH6LS1022 SW CR6L22 TS354 UED10 EMA	6" RECESSED DOWNLIGHT, WET LOCATION LISTED, SATIN HAZE REFLECTOR, SWITCHABLE LUMENS 1000, 1500, 2200, EMERGENCY BATTERY BACK UP, INTEGRAL TEST SWITCH, 50,0000 HOUR L70 RATED LIFE, 5 YEAR WARRANTY	80CRI/SET TO 4000K	UNV	RECESSED		0-10V/5%	28	
EM	BEGHELLI	BBX SE WH	EMERGENCY UNIT EQUIPMENT, 2 HEAD FULLY ADJUSTABLE 600 LUMENS/HEAD, WHITE THERMOPLASTIC HOUSING	NA	UNV	SURFACE		NA	6	
T	INSIGHT LIGHTING	PS6MO4000K100 KN 120V	PROSPOT LED, VARIED ANGLE MOUNT	LED	UNV	SURFACE	WALL MOUNT BELOW CLERESTORY.	0-10V/5%		
V	TRULY GREEN SOLUTIONS	VF1-2425 CC-3500K-BN	VANITY FIXTURE 3500K, BRUSHED NICKEL, 5 YEAR WARRANTY	NA	UNV	WALL MOUNT	FIELD VERIFY HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION.	NA	25	
X	BEGHELLI	PX R SA	EXIT, WHITE THERMOPLASTIC, RED LETTERS, UNIVERSAL MOUNTING	NA	UNV	SURFACE		NA	3	
W	TRULY GREEN SOLUTIONS	CSWR 0406 C 4000K BK 90 CRI	WALL MOUNT, 4000K, LED, WET RATED, 5 YEAR WARRANTY, ADJUSTABLE LUMEN 1000LM	70CRI/SET TO 4000K	UNV	WALL MOUNT	MOUNT 84" A.F.F.	NA	10	
WE	TRULY GREEN SOLUTIONS	CSWR 0406 C 4000K BK 90 CRI	WALL MOUNT, 4000K, LED, WET RATED, 5 YEAR WARRANTY, ADJUSTABLE LUMEN 1000LM, WITH EMERGENCY INVERTER.	70CRI/SET TO 4000K	UNV	WALL MOUNT	MOUNT 84" A.F.F.	NA	10	
W1	TRULY GREEN SOLUTIONS	CSWR 0406 C 4000K BK 90 CRI	WALL MOUNT, 4000K, LED, WET RATED, 5 YEAR WARRANTY, ADJUSTABLE LUMEN 500LM	70CRI/SET TO 4000K	UNV	WALL MOUNT	MOUNT 84" A.F.F.	NA	10	
W1E	TRULY GREEN SOLUTIONS	CSWR 0406 C 4000K BK 90 CRI	WALL MOUNT, 4000K, LED, WET RATED, 5 YEAR WARRANTY, ADJUSTABLE LUMEN 500LM, WITH EMERGENCY INVERTER.	70CRI/SET TO 4000K	UNV	WALL MOUNT	MOUNT 84" A.F.F.	NA	10	
LIGHTING SCHEDULE NOTES:										
1. ALL LAMPS SHALL BE 80+ CRI AND 3500K UNLESS NOTED OTHERWISE.										
2. OTHER FIXTURES MAY BE SUBMITTED FOR APPROVAL UP TO 10 WORKING DAYS PRIOR TO BID DATE, TO ALLOW FOR PROPER EVALUATION. SUBMISSIONS WITHIN 10 WORKING DAYS PRIOR TO BID DATE WILL NOT BE EVALUATED. EQUIPMENT IS APPROVED THROUGH ADDENDUM ONLY.										



550 North Reo Street
Suite 203, Tampa, FL
33609
813.289.4700
COA # 8304
Project 2020606

Hillsborough County Sheriff's Office Regional Canine Training Center

2102 N FALKENBURG RD
TAMPA, FL 33619

ELECTRICAL SCHEDULES

#	ISSUED FOR	DATE
1	PERMIT SET	01/10/2024
	ADDENDUM #2	08/02/2024

DRAWN BY: SKISY
REVIEW BY: JAR

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lunz.com

2023559

E-702

FIRE PROTECTION SPRINKLER SYSTEM DESIGN CRITERIA	
HAZARD SYMBOL	HAZARD CLASSIFICATION
	LIGHT HAZARD
	ORDINARY HAZARD GROUP 1 (ORDINARY TEMPERATURE)
	ORDINARY HAZARD GROUP 1 (INTERMEDIATE TEMPERATURE)
	ORDINARY HAZARD GROUP 2

- GENERAL NOTES**
- A. ROUTE ALL PIPING TIGHT TO STRUCTURE.
 - B. THESE DRAWINGS ARE INTENDED FOR DELEGATED DESIGN INFORMATION ON THIS PLAN IS PROVIDED FOR FIRE SPRINKLER CONTRACTOR TO BE ABLE TO GENERATE WORKING DRAWINGS.
 - C. COORDINATE AND PROVIDE AUTOMATIC AIR VENTS AND ASSOCIATED RELIEF PIPING FOR EACH SPRINKLER SYSTEM WITHIN BUILDING.
 - D. FORWARD FLOW TESTING OF BACKFLOW PREVENTER TO BE ACCOMPLISHED AT BACKFLOW PREVENTER. REFER TO CIVIL FOR MORE INFORMATION.
 - E. REFER TO ARCHITECTURAL CEILING PLANS FOR CEILING TYPES.

- KEYNOTES**
1. TO REMOTE FDC. REFER TO CIVIL FOR CONTINUATION.
 2. NEW 4" FIRE MAIN FROM BFP. REFER TO CIVIL FOR CONTINUATION.



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FIRST FLOOR FIRE PROTECTION PLAN

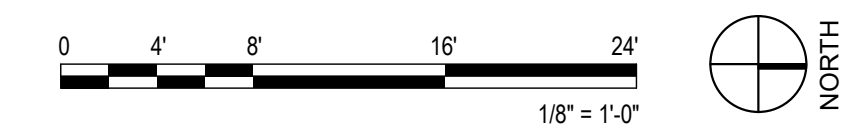
#	ISSUED FOR	DATE
	PERMIT SET	6/11/2024

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 REVIEW BY: NPS
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1 First Floor Fire Protection Plan
 1/8" = 1'-0"



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