

ADDENDUM 3

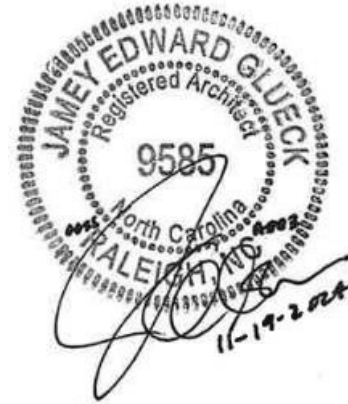
ADDENDUM DATE: November 19, 2024

PROJECT: Onslow County Senior Services Center Renovation
4024 Richlands Highway
Jacksonville, NC 28540

OWNER: Onslow County Government
234 NW Corridor Boulevard
Jacksonville, NC 28540

ARCHITECT: Smith Sinnett Architecture, P.A.
4600 Lake Boone Trail, Suite 205
Raleigh, North Carolina 27607

BIDS DUE: **November 26, 2024 at 2:00 pm**
Onslow County Government Complex Room #111
234 NW Corridor Boulevard
Jacksonville, NC 28540



Project Addendums and Bidders List are available at www.smithsinnett.com under the 'Documents' icon on the navigation bar.

This Addendum shall be included in the contract for the above-referenced project. All General, Supplementary and Special Conditions, etc., as originally specified or as modified below shall apply to these items.

GENERAL COMMENTS

- Item 1 REMINDER: Owner shall open the buildings (Multipurpose/Senior Services and Mechanical) for review, Thursday, 11-21-2024, 9am-11am and 1pm-3pm.
Contractor's may bring a ladder to access the roof if desired.

- Item 2 Contractor questions: "C2.01 references a seat wall on the architectural plans. Could you please confirm that a seat wall is part of this project?"
Response: Seat walls have been removed from the project. Refer to updated C2-01 attached to this addendum.

- Item 3 Contractor question: "C3-01 shows a new 6" Sanitary line running from the southeast corner of the building to the new sanitary Sewer Lift Station (Alt 1.). Can you confirm: Is this new sanitary line supposed to be part of the base bid or alternate? Is there an existing sanitary line that is to be removed? If so, would the demo of the existing be part of base bid or alternate #1"
Response: The removal and replacement of the existing sanitary pipe with new sanitary pipe is included in the base bid. Also refer to P2-01. Note the new

sanitary pipe invert at the exterior wall of the building is lower than the existing pipe invert and therefore must be replaced in the base bid.

Item 4 Contractor question: "Can landscape drawings be provided to show the extent of mulching, lawns, and grasses? The only information"

Response: Apart from the two Crepe Myrtles, the only landscaping on this project is grass. Refer to updated C2-01 attached to this addendum showing areas of sod. Follow the seeding schedule (on C4-03) in all other disturbed areas.

Item 5 Contractor question: "Can you confirm that the gas piping is to be by the site contractor? Or will the Utility Company be providing the new meter and all piping to the meter?"

Response: Gas piping from the existing gas line to the new gas meter location shall be by the Contractor. The utility company will be providing new gas meter.

Item 6 Contractor question: "Plans and specs are not calling for impact rated glass. Could you please confirm that impact rated is not necessary?"

Response: Impact-resistant glazing tested for small and large missile impact and typically installed to resist wind borne debris is NOT included in the bid documents.

Impact rated glazing is required by the North Carolina State Building Code, Building Code section 2406 for human impact loads in hazardous locations. Per section 2406.2 Impact Test glazing shall be tested in accordance with CPSC 16CFR part 1201. Glazing shall comply with the test require for Category II unless otherwise indicated in Table 2406.2(1). Drawings are marked with safety glazing, IG-2, IG-4, SG-CT representing tempered glazing units. Safety glazing is typically installed in door lites and adjacent to doors and other locations where human impact is anticipated, refer to drawings for locations. Also refer to specification section 088000 Glazing, 1.6, F.

Item 7 Contractor question: "Could you please provide a basis of design for the Walk Off Carpet Tile? (WCT-1 & WCT-2)"

Response: Delete reference to WTC-2. Refer to CHANGES AND CLARIFICATIONS TO THE SPECIFICATIONS, Item 41 this addendum for WCT-1 basis of design.

Item 8 Contractor question: "Specifications 10 22 39 / 2.6.A1 refer to marker boards on the operable partitions. Could you please clarify if all operable partitions receive markerboards, where they are to be located on the partitions, and if they are to be on one or both sides of the partitions"

Response: Delete reference to marker boards on operable partitions. Refer to CHANGES AND CLARIFICATIONS TO SPECIFICATIONS, Item 43 this addendum for operable partitions basis of design.

- Item 9 Contractor question: "22 10 05 specification, paragraph 2.05 Domestic Water Piping Above Grade only references grooved, and mechanical pressed joints for the domestic water piping. Will lead-free soldered and brazed joints be acceptable as well for the domestic water piping systems?"
Response: No, lead-free soldered and brazed joints are not acceptable. Provide mechanically pressed sealed fittings per 22 10 05 Plumbing Piping, 2.05, A.,3.
- Item 10 Contractor question: "Drawing M2-03 Keynote #1 states to extend Condensate to nearest Roof Drain. This building does not appear to have any roof drains and appears to have a gutters and downspouts installed. Per this note, do we need to pipe the condensate drain from each HVAC unit to the nearest gutter, or can the condensate spill on the roof and it then drain to the gutters via the pitch of the roof?"
Response: Pipe condensate individually from each unit to nearest gutter. Refer to M2-03 attached to this addendum.
- Item 11 Contractor question: "If the condensate drain must be piped from the HVAC roof top unit to the gutters, can the Condensate drain be manifolded together from multiple units and then piped to the gutter system? Or will they be required to be piped individually?"
Response: No, the condensate lines shall not be manifolded together from multiple units. Pipe condensate individually from each unit to nearest gutter. Refer to M2-03 attached to this addendum.
- Item 12 Contractor question: "Will schedule 40 PVC pipe be allowed for the exterior condensate drain piping?"
Response: No, PVC condensate piping shall not be allowed. Refer to 23 23 00, Refrigerant Piping, 2.04 Condensate piping and equipment drains, condensate piping shall be "Copper Tube: ASTM B88 (ASTM B88M), Type L (B), drawn"
- Item 13 Contractor question: "Will the exterior condensate drainpipe located on the roof top require insulation or any jacketing material being it is exposed to the weather?"
Response: No, exterior condensate drain pipe shall not be required to be insulated or jacketed. Refer to 23 23 00, Refrigerant piping, 2.04 Condensate piping and equipment drains, condensate piping shall be "Copper Tube: ASTM B88 (ASTM B88M), Type L (B), drawn"
- Item 14 Contractor question: "P0.12 - Keynote 2 states gas piping and meter is to be relocated by Utility Company. Can you please confirm that existing gas piping will be removed by the Utility Company?"
Response: Meter will be removed by the utility contractor. The Contractor shall remove, cap, and extend the existing gas line to the new meter location.

- Item 15 At the pre-bid meeting, a Contractor asked if BAS Direct Digital Control Systems 230923.03, 2.01 Manufacturers, Item 3 Honeywell, Tridium WEBS AX/Excel 5000, Inc (Preferred Alternate) was a preferred alternate.
Response: No, Honeywell, Tridium WEBS AX/Excel 5000, Inc. is not a preferred alternate. There is no BAS Direct Digital Control preferred alternate. Refer to CHANGES AND CLARIFICATIONS TO THE SPECIFICATIONS, Item 44 this addendum.
- Item 16 At the pre-bid meeting, a Contractor asked to clarify if the two open web joists with note "Previously added 18" joist (Not original) at moveable partition that is to be demolished" are be demolished?
Response: The two existing joists in the new Activity Room B 116 shall be demolished. Refer to S1-01 attached to this addendum for clarification of existing joists to be demolished.
- Item 17 At the pre-bid meeting, a Contractor asked to clarify the extents of demolition for roof deck at roof edge on S1-01.
Response: Refer to S1-01 and S1-02 attached to this addendum for clarification. Note the intent of demolishing the metal roof deck in these locations (north, partial east and partial west) is to install the new roof edge steel.
- Item 18 Contractor question: "Please clarify if the existing sprinkler system is to be demoed and replace with new."
Response: Yes, the existing fire protection system is to be demolished and replaced with a new fire protection system. Refer to F0-12 for extents of demolition for existing fire protection system. Refer to F1-01 for the extents of new fire protection system.
- Item 19 Contractor question: "Would the Silent Knight Farenhyt line be an acceptable equal approved for this project? Manufacturer's data sheet is attached."
Response: Yes, the request to substitute Silent Knight is acceptable for the base bid. Refer to Alternate 7b for Owner Preferred Fire Alarm System.
- Item 20 At the pre-bid meeting, a Contractor asked if fire watch is required per 26 05 05, 3.02 Preparation, Item E?
Response: The Senior Services building will not be occupied. A fire watch is not required. Refer to CHANGES AND CLARIFICATIONS TO THE SPECIFICATIONS, Item 46 this addendum.
- Item 21 At the pre-bid meeting, a Contractor asked if there was an Asbestos/Hazardous Materials Report for the building?
Response: No, there is no record of existing Asbestos/Hazardous Materials Report for the building.

- Item 22 At the pre-bid meeting, a Contractor asked if there were existing fire sprinkler shop drawings?
Response: No, we have no record of any fire protection drawings of the existing condition.
- Item 23 Contractor question: “Is Trane acceptable to add to list of manufactures specification 230923.03, 2.01 Manufacturer’s?”
Response: Yes, Trane Technologies Company is acceptable to add to the list of manufacturers provided the proposed control system meets the specification. Refer to CHANGES AND CLARIFICATIONS TO THE SPECIFICATIONS, Item 45 this addendum.
- Item 24 Contractor question: “Is Hadrian Toilet Partitions acceptable to add to list of manufacturers specification 10 21 13, 2.1 Solid-Polymer Units, A. Manufacturers?”
Response: Yes, Hadrian Toilet Partitions is acceptable to be added to the list of acceptable manufacturers. Refer to CHANGES AND CLARIFICATIONS TO THE SPECIFICATIONS, Item 42 this addendum.
- Item 25 Contractor question: “Under the resilient athletic flooring spec section the basis of design is Econights by Encore in roll form 10mm thickness. Econights comes in 8mm standard roll thickness, please advise? Also there is a mention of interlocking edges for roll products that are hidden, please clarify as well? To my knowledge only tile is interlocking and no edges in either rolls or tiles can be hidden?”
Response: Refer to CHANGES AND CLARIFICATIONS TO THE SPECIFICATIONS, Items 37, 38, 39 and 40 this addendum.
- Item 26 Contractor question: “Can you explain the two envelope system? Exactly what goes in which envelope?”
Response:
Outer envelope: On the outside of the outer envelope provide Bid information: Project name, project address, bid opening date, bidding company name, company individual contact name, company physical address, company phone number (number where individual may be contacted), company NC contractor license number.
Inner envelope: Insert all bid day documents in the inner envelope. Close the envelope (fold flap), but do not seal.
Insert the inner envelope into the outer envelope. Seal the outer envelope. This configuration assists in the bid opening process.
- Item 27 Contractor question: “Is N12 officially Wood framed doors and sidelights?? If so, Am I to still pick up glass for this elevation?? (Interior doors 104E, 104F)”
Response: N12 shall be an aluminum frame. Doors 104E and 104F are correct as scheduled, WD, Type F (solid, no lite). Refer to A6-01 and A6-10 this addendum for clarification.

- Item 28 Contractor question: "Is the door in elevation N19 supposed to be a flush wood door?? Please confirm."
Response: N19 shall be an aluminum frame. Door 236 is correct as scheduled, WD, Type F (solid, no lite).
- Item 29 Contractor question: "Please clarify whether waxing is required for lvp, cove base and resilient accessories?"
Response: Wax and/or floor polish is not required (and typically not recommend by manufactures, refer to LVT basis of design, Terrain II, Shaw Contract Maintenance Guidelines) for LVT floor finish, resilient base, and accessories. Provide initial cleaning per manufacturer's recommendations.
- Item 30 Contractor question: "Will the tipping fees be waived at the Onslow County Landfill for this project?"
Response: Tipping fees will NOT be waived.
- Item 31 Contractor question: "Selective Structural Demolition Specs 3.4 A2 and Selective Site Demolition 3.5 B – Specs state we are not allowed to use hammer or impact tools on this project. Are we authorized to use chipping hammers for brick/block and concrete slab removal?"
Response: 024119 Selective Structure Demolition, 3.4., A., 2. States "Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
024113 Selective Site Demolition, 3.5., B. States "Demolish asphalt, concrete and masonry in small sections. Cut concrete and masonry at junctures with construction to remain, using power-driven masonry saw or hand tools; do not use power-driven impact tools.
The intent of the specification sections is to utilize tools that will provide clean and neat edges where existing material is to remain and to protect adjoining existing material to remain from damage. Where entire areas of material are to be removed, away from adjoining existing material to remain, such as the interior floor slab or asphalt paving, hammer and impact tools may be used.
- Item 32 Contractor question: "Site Clearing Specs 3.5 C – For the interior concrete slab removal will we also need to remove the aggregate base to 12" below grade?"
Response: 311000 Site Clearing, 3.5., C. states "Remove sawcut concrete and asphalt, including aggregate base, to a depth of 12-inches below existing, adjacent grade, or as indicated. Provide neat sawcut at limits of pavement removal as indicated." Note this specification is in reference to concrete paving (sidewalks) at the exterior of the building.
Regarding the existing interior concrete slab and sub-slab material, the existing interior concrete slab and sub-slab material shall be removed as necessary to install new vapor barrier, 4" compacted stone, 4" concrete slab. Refer to

Demolition Specific Area Notes: #2 and S1-03 for typical slab notes. Note 2" depressed slab areas.

- Item 33 Contractor question: "Confirm that all brick will be removed from the exterior walls?"
Response: Yes, all exterior brick and other wall assembly components shall be removed from the top of wall to the top of foundation and to the exterior face of CMU in preparation for new exterior wall assembly. Exterior CMU to remain unless otherwise noted. Refer to Demolition Specific Area Notes: #5, A0-02, A0-03, A0-07.
- Item 34 Contractor question: "Will an engineered shoring plan be needed or provided by the architect?"
Response: Yes, an engineered shoring plan sealed by an engineer licensed in the state of North Carolina will be required where bearing is removed from roof framing to remain.
- Item 35 Contractor question: "On S1-03, Alternates 3, 4 and 5 refer to the column footings adjacent to the building. The exterior footings are not tagged as part of the respective alternates, can you please confirm whether these columns are to be included in the base bid or alternate?"
Response: Column footings supporting roof framing associated with canopies per Alternate 3, 4 and 5 respectively shall be included with said Alternate. Refer to S1-03 attached to this addendum.
- Item 36 Contractor question: "I have noticed that there is a spec section (10-14-00) for signage. In that spec section "Dimensional Letters" is referenced under 1.1 Summary A 3. Again in 2.3 "Dimensional Letters" for that same spec section. We have not been able to locate these on the plans. Is there any dimensional letter signage included in this project?"
Response: Dimensional letter signage is not included in the project.

CHANGES AND CLARIFICATIONS TO THE SPECIFICATIONS

- Item 37 09 65 66, 2.1, B: CHANGE the basis of design from Econights by Encore to Johnsonite Tarket Replay Commotion sheet flooring.
- Item 38 09 65 66, 2.1, E: DELETE reference to "roll interlock shall be hidden." Installation of flooring shall be per manufacturer's installation instructions.
- Item 39 09 65 66, 2.1, G: CHANGE thickness from 10mm to 3/8" (9.5mm).
- Item 40 09 65 66, 2.1, H: CHANGE weight from 3lbs to 2lbs/sf minimum.
- Item 41 09 68 13, 2.1 Carpet Tile: ADD Item E. Walk-off Entryway Carpet Tile - WCT-1:
1. Basis of design: Manufacturer Shaw Contract Group

- a. Running Lines: “Bon Jour II Tile, Style #: 5T032 and Welcome II Tile, Style #: 5T031, Collection: “Steppin Out”
 2. Pile Construction/Surface: Needlebond Rib or Needlebond Hobnail
 3. Pile Fiber and Type: See manufacturers spec sheet.
 4. Dye Method: 100% Solution Dyed
 5. Density: min 5,200
 6. Gage: 1/12”
 7. Stitches per Inch: Refer to Basis of Design for minimum.
 8. Face Weight: Refer to Basis of Design for minimum.
 9. Backing: Ecoworx
 10. Protective Treatment: Manufacturer’s recommended standard for product
 11. Size: 24” x 24” Tiles
 12. Warranty: Wearability - Lifetime
 13. ADA Compliance: Yes
 14. Installation Method: Monolithic

Item 42 10 21 13, 2.1 Solid Polymer Units, A. Manufacturers: ADD Item 6. Hadrian Toilet Partitions to list of acceptable manufacturers provided they meet NFPA 286 and provide a full range of colors at no additional cost.

Item 43 10 22 39, 2.6 Accessories: DELETE reference to “Markerboard inset: Manufacturer standard white enamel on steel, bonded to the face of the panel with horizontal trim without exposed fasteners. Trim is not acceptable on vertical edges to provide uninterrupted work surface.
1. Refer to drawings for size and locations.”

Item 44 23 09 23, 2.01 Manufacturers, A3: DELETE “(Preferred Alternate)” on 23 09 23, 2.01 Manufacturers, A3 Honeywell, Tridium WEBS AX/Excel 5000, Inc.

Item 45 23 09 23.03, 2.01 Manufacturers, A3: ADD Item 7. Trane Technologies Company to 230923, 2.01 Manufacturers, provided the proposed control system meets the specification.

Item 46 26 05 05, 3.02 Preparation: CLARIFICATION: The Senior Services building will not be occupied. A fire watch is not required.

Item 47 28 31 12, Intrusion Detection System: DELETE this specification section.

CHANGES AND CLARIFICATIONS TO THE CIVIL DRAWINGS

- Item 48 Sheet C2-01: REPLACE the sheet in its entirety with the attached sheet C2-01.
Note the following revisions:
- There are no seat walls in the project. Any reference to seat walls has been removed.
 - Apart from the two Crepe Myrtles, the only landscaping on this project is grass. See updated areas showing SOD as indicated on the plan.
 - Refer to seeding schedule on C4-03 at all other disturbed areas.

CHANGES AND CLARIFICATIONS TO THE STRUCTURAL DRAWINGS

- Item 49 Sheet S1-01: REPLACE the sheet in its entirety with the attached sheet S1-01.
Note the following revisions:
- Existing joists at new skylights to be demolished.
 - Existing joists at new roof top unit to be demolished.
 - Extents of roof demolition at roof edge have been clarified.
- Item 50 Sheet S1-02: REPLACE the sheet in its entirety with the attached sheet S1-02.
Note the following revisions:
- Extents of roof demolition at roof edge have been clarified.
- Item 51 Sheet S1-03: REPLACE the sheet in its entirety with the attached sheet S1-03.
Note the following revisions:
- Column footings supporting roof framing associated with canopies per Alternate 3, 4 and 5 respectively shall be included with said Alternate as indicated on plan attached to this addendum.

CHANGES AND CLARIFICATIONS TO THE ARCHITECTURAL DRAWINGS

- Item 52 Sheet A0-04: REPLACE the sheet in its entirety with the attached sheet A0-04.
Note the following revisions:
- Four existing joists to be removed. Refer to S1-01 attached to this addendum.
- Item 53 Sheet A0-06: REPLACE the sheet in its entirety with the attached sheet A0-06.
Note the following revisions:
- The extents of existing skylight demolition have been revised as indicated on demo roof plan.
- Item 54 Sheet A1-02: REPLACE the sheet in its entirety with the attached sheet A1-02.
Note the following revisions:
- The aluminum window between Lobby 101 and Reception 102 changed to AL9.

- Item 55 Sheet A4-01: REPLACE the sheet in its entirety with the attached sheet A4-01.
Note the following revisions:
- 15/A4-01: Water closet in Staff Toilet 106B shall be 1'-5" from face of tile to center of water closet.
 - 1/A4-01: Water closet in Women Toilet 104I and Men Toilet 104J shall be 1'-5" from face of tile to center of water closet.
 - 3/A4-01: Water closet in Shower 113C shall be 1'-5" from face of tile to center to water closet.
 - 4/A4-01: Water closet in Mens 115B and Womens 115C shall be 1'-5" from face of toilet partition to center of water closet as indicated on plan.
 - Note per ICC A117.1-2009 Accessible and Usable Buildings and Facilities, 604.2 Location the centerline of an accessible water closet shall be 16 inches minimum and 18 inches maximum from the side wall or partition. The change from 1'-6" (18") to 1'-5" (17") from the centerline of the water closet to the face of the partition is intended to provide 1" of tolerance.
- Item 56 Sheet A4-02: REPLACE the sheet in its entirety with the attached sheet A4-02.
Note the following revisions:
- 7/A4-02: Water closets in Men Shower 245 and Women Shower 246 shall be 1'-5" from face of tile to center of water closet.
 - 6/A4-02: Toilet partition door height revised to match adjacent doors.
 - 1/A4-02: Toilet partition door height revised to match adjacent doors
 - 3/A4-02: Ambulatory toilet compartment door shall swing out and shall have vertical and horizontal grab bars.
 - 3/A4-02: Dimensions of overall toilet compartments width added.
 - 3/A4-02: Dimensions to centerline of mop sink in Janitor 240 and Janitor 123 added.
 - 3/A4-02: Dimensions to centerline of sink in Laundry 244 added.
 - 3/A4-02: Dimension to mop rack in Storage 126 revised.
- Item 57 Sheet A4-10: REPLACE the sheet in its entirety with the attached sheet A4-10.
Note the following revisions:
- 1/A4-10, 2/A4-10, 3/A4-10, 4/A4-10, 6/A4-10, 7/A4-10, 8/A4-10, 9/A4-10, 12/A4-10, 13/A4-10, 14/A4-10: Designation of plastic laminate type for base and upper casework added.
 - 5/A4-10: Revision of PL-2, Wall surface and Base Cabinets.
 - 10/A4-10: Top of countertop at Reception 102 shall be at 2'-6" above the finished floor. Backsplash added to countertop.
 - 10/A4-10: Clarification of plastic laminate for casework in Reception 102.
 - 11/A4-10: Top of solid surface countertop shall be at 2'-10"
 - 15/A4-10: Addition of Lobby 101 countertop plan.
 - 10/A4-10 and 11/A4-10: Cables (Displays and scanner cables, not 120V power cord) from OFOI Monitors to pass between Reception 102 and Lobby 101. Refer to Electrical drawings attached to this addendum.

- Item 58 Sheet A6-01: REPLACE the sheet in its entirety with the attached sheet A6-01.
Note the following revisions:
- Change Door Schedule frame material for 104E and 104F from WD to ALUM.
- Item 59 Sheet A6-10: REPLACE the sheet in its entirety with the attached sheet A6-10.
Note the following revisions:
- AL9 and AL10 shall be interior sliding windows.
 - Doors (104E and 104F) in N12 shall be WD, Type F (solid, no lite).
 - Door (236) in N19 shall be WD, Type F (solid, no lite).
- Item 60 Sheet A7-01: REPLACE the sheet in its entirety with the attached sheet A7-01.
Note the following revisions:
- Revisions to finishes as indicated on plan.
 - Added PL-6 to Finish Legend.
 - Signage added between Adult Day Room 115.
- Item 61 Sheet A7-02: REPLACE the sheet in its entirety with the attached sheet A7-02.
Note the following revisions:
- The Signage Scheduled has been revised as noted on A7-02 attached to this addendum.
 - The Room Finish Schedule has been revised as noted on A7-02 attached to this addendum.
- Item 62 Sheet A9-10: REPLACE the sheet in its entirety with the attached sheet A9-10.
Note the following revisions:
- DELETE General Notes, Item 2. "2. If alternate 6C is accepted, alcove shall be left exposed, see 4/A9-10" from general notes on A9-10".

CHANGES AND CLARIFICATIONS TO THE MECHANICAL

- Item 63 Sheet M2-03: REPLACE the sheet in its entirety with the attached sheet M2-03.
Note the following revisions:
- Pipe condensate individually from each unit to nearest gutter.

CHANGES AND CLARIFICATIONS TO THE ELECTRICAL

- Item 64 Sheet E0-01: REPLACE the sheet in its entirety with the attached sheet E0-01.
Note the following revisions:
- Clarified: Security Symbols WA, LR, SEC and KP – All conduit and outlet boxes by EC, wiring and devices by owner/others.
- Item 65 Sheet E0-03: REPLACE the sheet in its entirety with the attached sheet E0-03.
Note the following revisions:
- Deleted Security Intrusion Detection Riser.

- Item 66 Sheet E2-01: REPLACE the sheet in its entirety with the attached sheet E2-01.
Note the following revisions:
- Clarified: Power outlets and Data outlets network for flat panels, CPU's and Scanners associated with Receptions 102 and Lobby 101.
 - Added: Keynotes 25 and 26.
- Item 67 Sheet E3-01: REPLACE the sheet in its entirety with the attached sheet E3-01.
Note the following revisions:
- Added: General Note I and Keynote 7.
 - Revised: HDMI connections at rooms 104E and 115.
 - Clarified: Network connections at rooms 101 and 102 between CPU's and monitors/scanners.
 - Revised: HDMI Cable drop Schedule.
- Item 68 Sheet E3-02: REPLACE the sheet in its entirety with the attached sheet E3-02.
Note the following revisions:
- Delete: HDMI cabling at Training Rooms 222 and 223
 - Revised: HDMI Cable drop Schedule.

End of Addendum 3

Attached:

Civil Drawings (1) sheets
Structural Drawings (3) sheets
Architectural Drawings (11) sheets
Mechanical Drawings (1) sheets
Electrical Drawings (5) sheets

2	11-19-2024	ADDENDUM #3
1	11-5-2024	ADDENDUM #1
ID	DATE	DESCRIPTION

9A	WALL-MOUNTED ACCESSIBLE PARKING SIGNAGE	R7-8P, R7-8A, R7-8D (PER PLAN & DETAIL)
9B	ACCESSIBLE PARKING SIGNAGE WITH BOLLARD	R7-8P, R7-8A, R7-8D (PER PLAN & DETAIL)

9A	WALL-MOUNTED ACCESSIBLE PARKING SIGNAGE	R7-8P, R7-8A, R7-8D (PER PLAN & DETAIL)
9B	ACCESSIBLE PARKING SIGNAGE WITH BOLLARD	R7-8P, R7-8A, R7-8D (PER PLAN & DETAIL)

9A	WALL-MOUNTED ACCESSIBLE PARKING SIGNAGE	R7-8P, R7-8A, R7-8D (PER PLAN & DETAIL)
9B	ACCESSIBLE PARKING SIGNAGE WITH BOLLARD	R7-8P, R7-8A, R7-8D (PER PLAN & DETAIL)

9A	WALL-MOUNTED ACCESSIBLE PARKING SIGNAGE	R7-8P, R7-8A, R7-8D (PER PLAN & DETAIL)
9B	ACCESSIBLE PARKING SIGNAGE WITH BOLLARD	R7-8P, R7-8A, R7-8D (PER PLAN & DETAIL)

9A	WALL-MOUNTED ACCESSIBLE PARKING SIGNAGE	R7-8P, R7-8A, R7-8D (PER PLAN & DETAIL)
9B	ACCESSIBLE PARKING SIGNAGE WITH BOLLARD	R7-8P, R7-8A, R7-8D (PER PLAN & DETAIL)

DRAWN BY:	JL
CHECKED BY:	FS

- ### STAKING GENERAL NOTES
- ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE ONSLOW COUNTY AND OSHA STANDARDS.
 - EMPLOY A LICENSED SURVEYOR FOR FINAL STAKEOUT. GRADING EQUIPMENT USING GPS IS ACCEPTABLE FOR BULK GRADING.
 - CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
 - RAISE ALL STRUCTURES WITHIN THE AREAS TO BE OVERLAID SUCH THAT THE TOP OF THE STRUCTURE EQUALS THE FINISH GRADE OF THE NEW ASPHALT.
 - COORDINATE THE PROJECT SCHEDULE WITH THE CIVIL ENGINEER AND OWNER IN ACCORDANCE WITH THE OWNER'S ONGOING ONSITE OPERATIONS.
 - ALL PAVING SHALL BE PERFORMED BY A NCDOT APPROVED CONTRACTOR. COORDINATE WITH NCDOT FOR WORK IN THE RIGHT OF WAY.
 - PROVIDE A SMOOTH TRANSITION BETWEEN NEW PAVEMENT AND EXISTING PAVEMENT / GRAVEL SURFACES.
 - PROVIDE A 1-FT OVERLAP OF THE FINAL SURFACE COURSE OVER THE FIRST LIFT OF ASPHALT AT COLD JOINTS.
 - THE OWNER WILL HIRE A THIRD-PARTY INSPECTOR FOR PAVING INSPECTIONS. CORE SAMPLES WILL BE TAKEN IN ASPHALT TO CHECK FOR DENSITY AND THICKNESS.
 - INSTALL FIBER JOINT FILLER AND CAULK AT EACH CONCRETE EXPANSION JOINT AND WHERE CONCRETE PAVEMENT ABUTS OTHER PAVEMENTS, SIDEWALKS, OR HARD SURFACES.
 - PRIOR TO FINAL PROJECT ACCEPTANCE, PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY SYSTEMS AND STORM SEWERS.
 - LAWN AREAS NOTED AS SOD TO BE CELEBRATION BERMUDA GRASS. ALL SOD SHOULD HAVE NO LESS THAN A 95% GERMINATION AND NO MORE THAN 0.5% WEED SEED TO BE CONSIDERED ACCEPTABLE FOR SUBSTANTIAL COMPLETION. THE REMAINDER OF THE DISTURBED AREAS TO BE SEEDED WITH PERMANENT SEED PER THE SEEDING SCHEDULE.

- ### KEY NOTES
- | | | |
|----|--|--|
| 1 | HEAVY DUTY ASPHALT PAVEMENT | |
| 2 | CONCRETE SIDEWALK | |
| 3 | PRECAST CONCRETE WHEEL STOP: INSTALL 20 CONCRETE WHEEL STOPS (REUSE THE 15 EXISTING WHEEL STOPS, PURCHASE 5 WHEEL STOPS) | |
| 4 | 6" GALVANIZED STEEL BOLLARD WITH HDPE SLEEVE | |
| 6 | 6" CONCRETE CURB & 18" GUTTER | |
| 10 | HEAVY DUTY CONCRETE PAVEMENT | |
| 4 | 4" CALIPER SINGLE STEM CREPE MYRTLE (ARCHITECT / OWNER TO SELECT FLOWER COLOR) | |
| 5 | ACCESSIBLE CURB RAMP | |
| 7 | RIVER ROCK WITH CONCRETE EDGING | |
| 8 | FLAG POLE | |
| A | TWO (2) COATS OF ASPHALT SAND SEALCOAT | |
| B | 1.5" MILL & LAP JOINTS WHERE PROPOSED ASPHALT MEETS EXISTING (MINIMUM 18" WIDTH; SEE PLAN FOR LENGTH OF JOINT) | |
| C | ALT. 2: CONCRETE PAD FOR GENERATOR. REFER TO STRUCTURAL AND ELECTRICAL PLANS FOR SIZING | |
| F | WHITE THERMOPLASTIC DIRECTIONAL ARROW, ALIGN WITH EXISTING | |
| G | NEW LOCATION OF EXISTING CISTERN OVER 6" ABC STONE LEVELING PAD | |
| H | CELEBRATION BERMUDA SOD | |

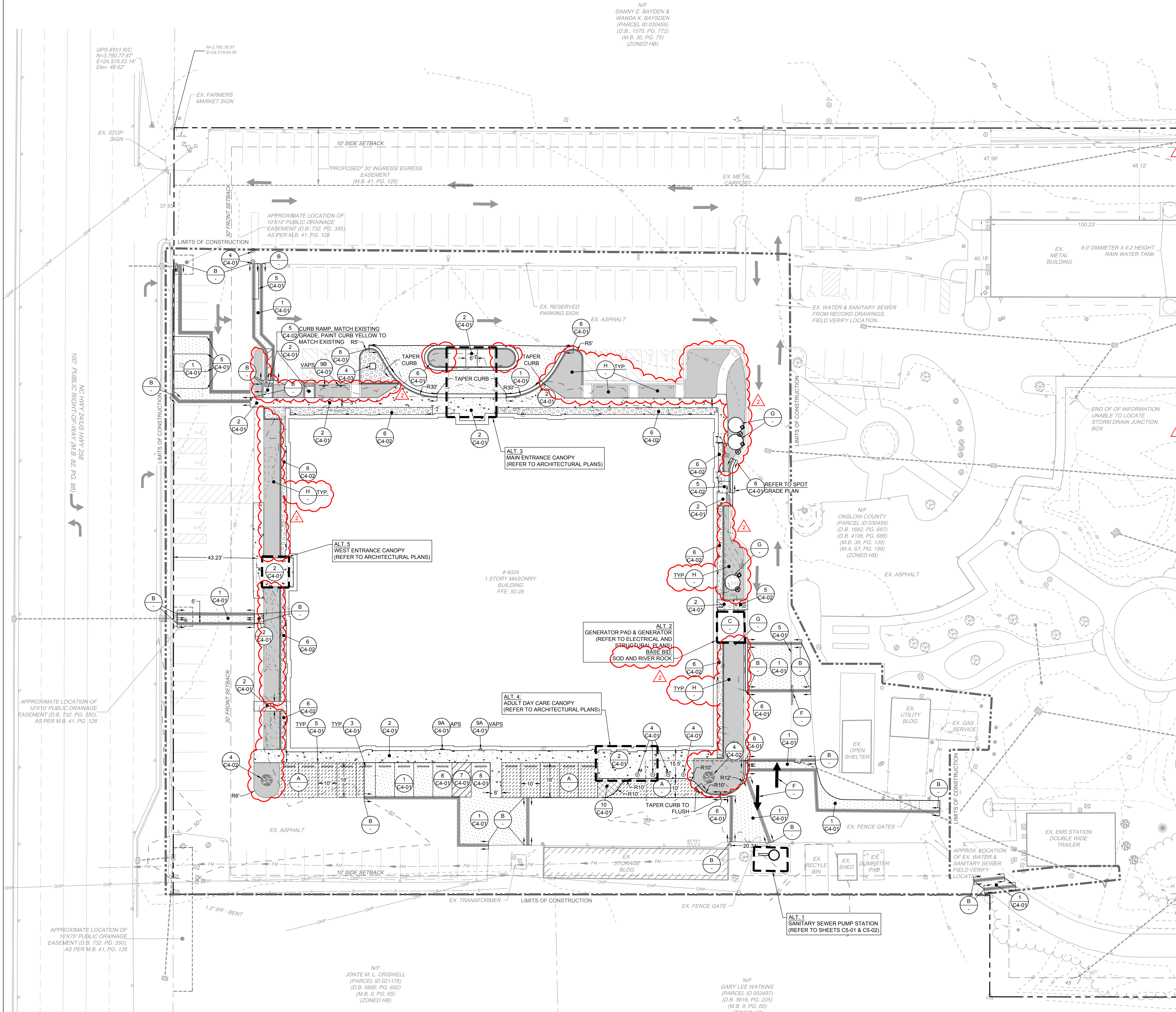
- ### TRAFFIC CONTROL NOTES
- ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.
 - ALL PAVEMENT MARKINGS SHALL BE 2 COATS ALKYD RESIN TYPE MARKING PAINT.
 - ALL SIGNAGE SHALL HAVE HIGH INTENSITY PRISMATIC SHEETING.
 - SIGNS SHALL BE FABRICATED FROM ALUMINUM ALLOY SHEETS.
 - ALL MOUNTING HARDWARE SHALL BE GALVANIZED.
 - "VAPS" ON PLANS DENOTES VAN ACCESSIBLE PARKING SIGN. INSTALL R7-8A, R7-8D, & R7-8P.
 - "APS" ON PLANS DENOTES ACCESSIBLE PARKING SIGN. INSTALL R7-8A & R7-8D ONLY.

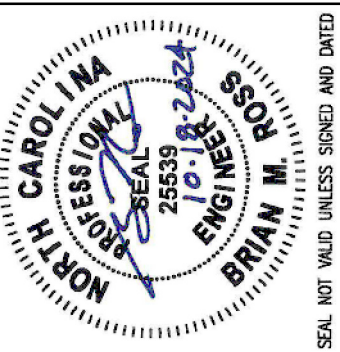
STRIPING KEY NOTES

	NCDOT STD.	WIDTH	COLOR
5	PARKING STALL AND TRAFFIC STRIPE	1205.07 (STD)	4-IN WHITE
7	DIAGONAL STRIPING	1205.01	4-IN WHITE
8	ACCESSIBLE PARKING LAYOUT	1205.08	4-IN WHITE

SIGNAGE KEY NOTES

	MUTCD	
9A	WALL-MOUNTED ACCESSIBLE PARKING SIGNAGE	R7-8P, R7-8A, R7-8D (PER PLAN & DETAIL)
9B	ACCESSIBLE PARKING SIGNAGE WITH BOLLARD	R7-8P, R7-8A, R7-8D (PER PLAN & DETAIL)





ROSS LINDEN
ENGINEERS P.C.

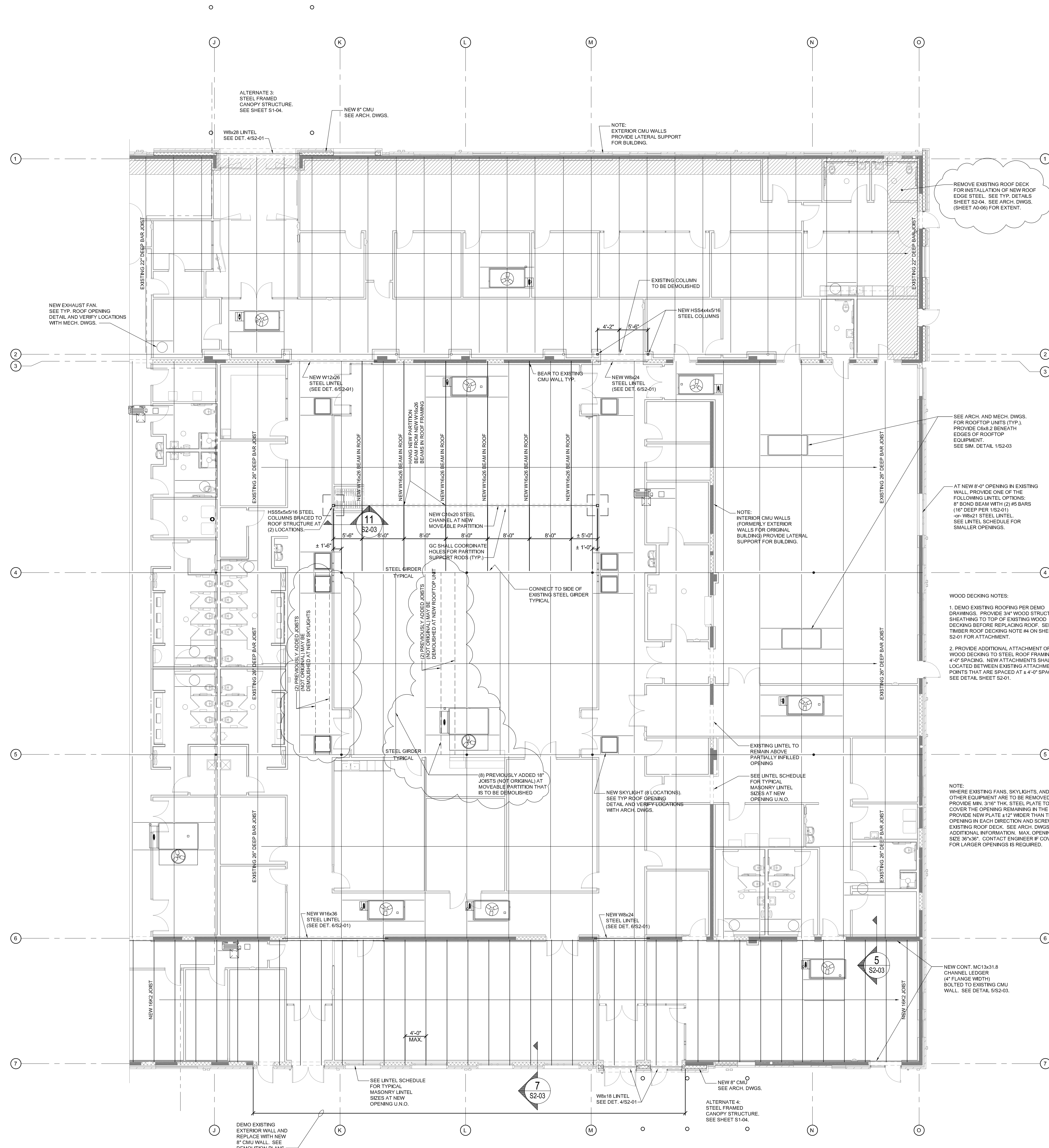
100 W. KINGS STREET, RALEIGH, NC 27603
TEL: 919.833.2700 FAX: 919.833.2593
WWW.ROSSLINDEN.COM N.C. LICENSE NO. C-2344

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Onslow County Government**
4024 Richlands Hwy, Jacksonville, NC 28540

ID	DATE	DESCRIPTION
2	11-18-2024	ADDENDUM #3
1	11-05-2024	ADDENDUM #1



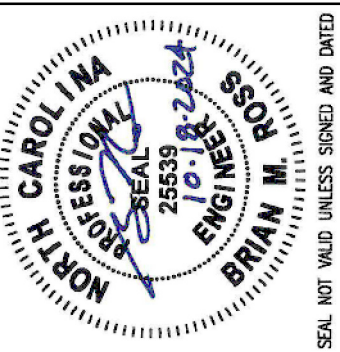
1 STRUCTURAL RENOVATION PLAN - AREA A
S1-01 1/8" = 1'-0"

DRAWN BY: BR
CHECKED BY: BR/JG

**RENOVATION
FRAMING PLAN
AREA A**

C230906 16 OCT. 2024

S1-01



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TEL: 919.833.8372
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1	11-18-2024	ADDENDUM #3

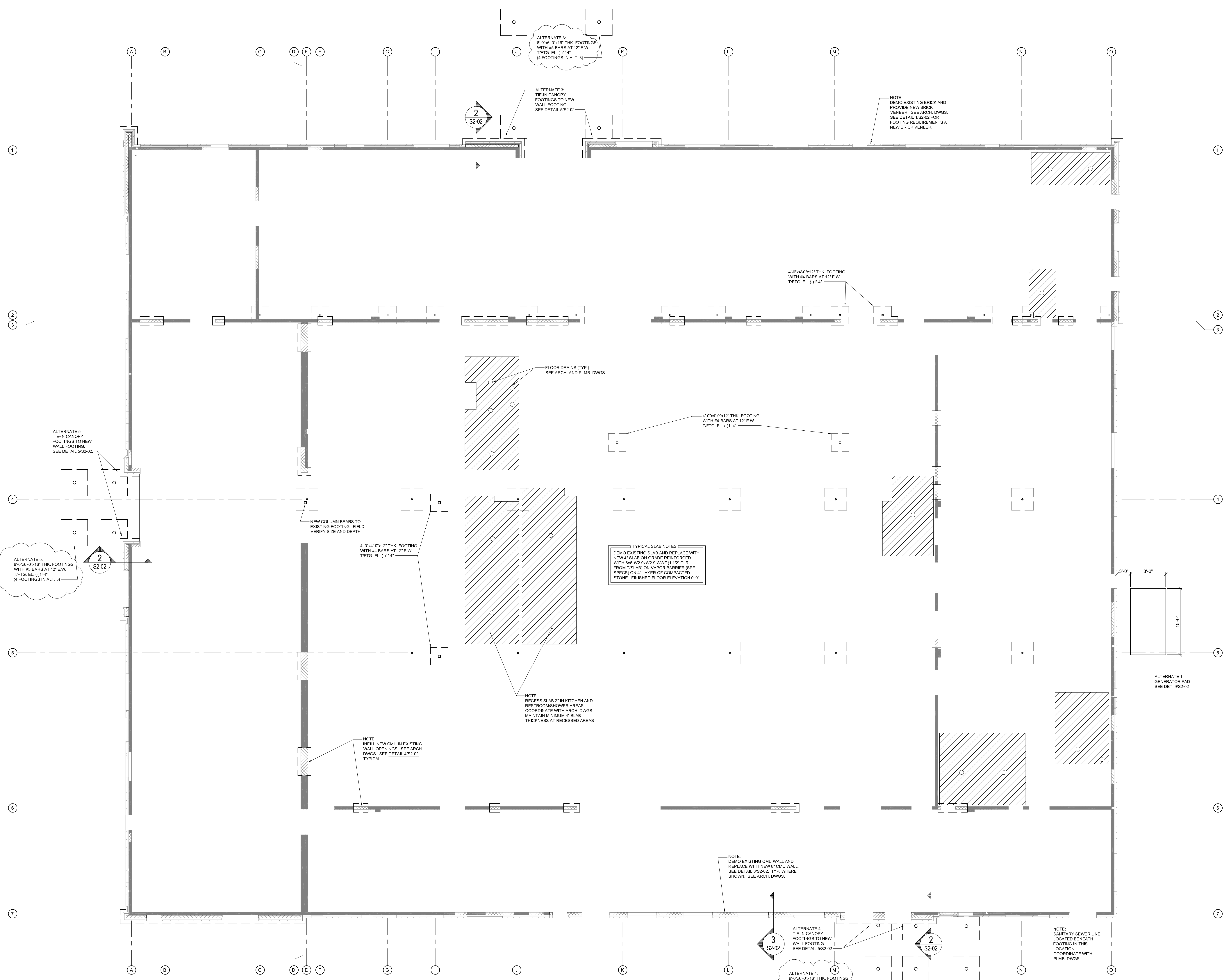
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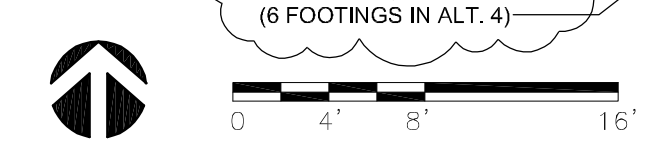
OVERALL SLAB AND FOUNDATION PLAN

C230906 16 OCT. 2024

S1-03



1 OVERALL SLAB AND FOUNDATION PLAN
S1-03 1/8" = 1'-0"



GENERAL DEMOLITION NOTES:

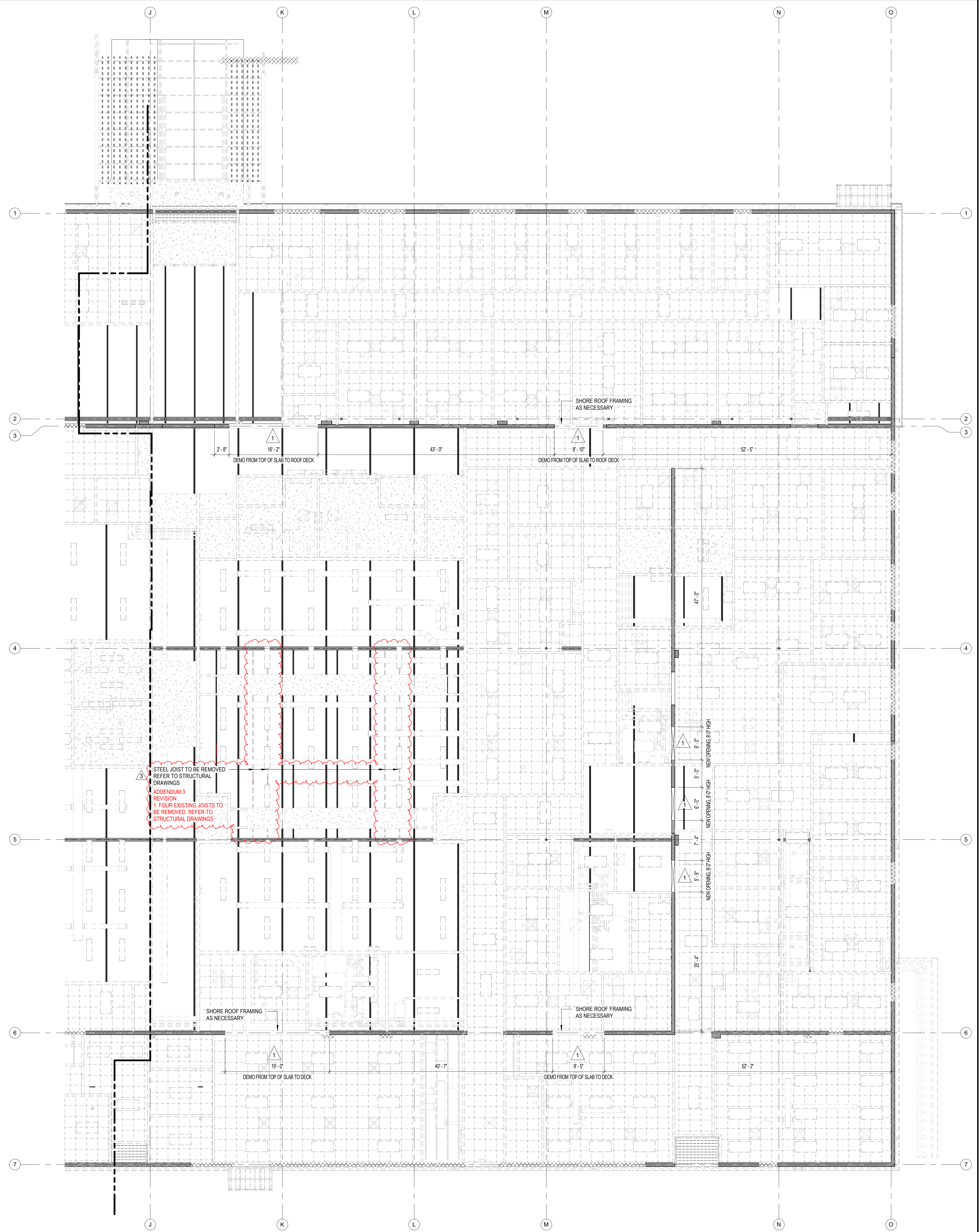
- DEMOLISH AND REMOVE EXISTING CONSTRUCTION, INCLUDING ALL WALLS, DOORS, WINDOWS, FINISHES, PLUMBING, MECHANICAL, ELECTRICAL, FIRE SUPPRESSION, FIRE ALARM, COMMUNICATIONS TO THE STRUCTURAL ELEMENTS (COLUMNS, CMU WALLS, ROOF FRAMING, ROOF DECK) AND CONCRETE SLAB TO REMAIN UNLESS OTHERWISE NOTED.
- ALL CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR WHERE DEMOLITION IS TO OCCUR. THE CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY INCONSISTENCIES IN WRITING PRIOR TO STARTING ANY WORK.
- ANY FLOOR, CEILING, WALL OR OTHER MATERIALS INCLUDING FINISHES IN AREAS TO REMAIN ARE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT. ANY MATERIALS DAMAGED DURING CONSTRUCTION OR DEMOLITION, SHALL BE RETURNED TO THEIR ORIGINAL STATE, OR IMPROVED AS INDICATED BY THE OWNER OR ARCHITECT, OR REPLACED WITH A NEW MATERIAL TO MATCH ADJACENT MATERIALS, TYPICAL.
- CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING SURFACES TO REMAIN.
- REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL AND COMPLETE SCOPE OF DEMOLITION THAT MAY OR MAY NOT BE NOTED ON THE ARCHITECTURAL DEMOLITION PLAN AND NOTES.
- CONTRACTOR SHALL REMOVE ALL WALL MOUNTED FIXTURES OR ITEMS UNLESS OTHERWISE NOTED. ALL WALLS TO REMAIN SHALL BE REPAIRED, AND VOIDS FILLED AFTER FIXTURE REMOVAL.
- ALL FIXTURES, WALLS AND PORTIONS OF WALLS SHOWN AS DASHED LINES OR LABELED SHALL BE DEMOLISHED UNLESS ELEMENTS REMOVED OR REPLACED. CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING AND IS RESPONSIBLE FOR ANY FAILURE DUE TO LACK OF PROPER BRACING.
- CONTRACTOR SHALL PATCH AND FILL IN ANY VOIDS LEFT FROM THE DEMOLITION OF ANY PLUMBING, MECHANICAL, OR ELECTRICAL ITEMS. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR COMPLETE SCOPE OF DEMOLITION.
- CONCRETE CUT IS DIAGRAMMATIC. ALL EXISTING DOMESTIC WATER PIPING AND EXISTING SANITARY PIPING ABOVE SLAB AND BELOW SLAB SHALL BE REMOVED IN AREA OF DEMOLITION. REFER TO PLUMBING DRAWINGS FOR EXTENTS OF DEMOLITION WORK.
- REMOVE EXISTING ROOF ASSEMBLY (INCLUDING GUTTERS AND DOWNSPOUTS) TO ROOF DECK UNLESS OTHERWISE INDICATED.

DEMOLITION SPECIFIC AREA NOTES:

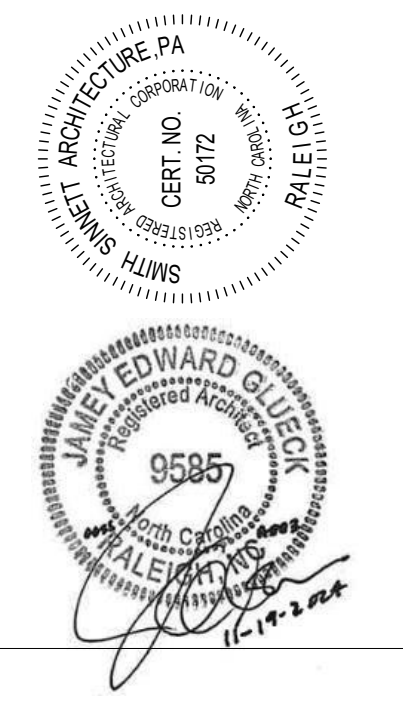
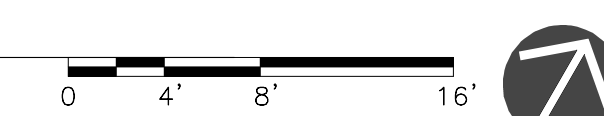
- | | |
|---|---|
| 1 | REMOVE EXISTING CMU WALL TO THE EXTENTS SHOWN. SHORE EXISTING STRUCTURAL AS NECESSARY TO MAINTAIN THE EXISTING TO REMAIN ASSEMBLIES INTACT. DEMOLITION SHALL BE SUFFICIENT ENOUGH TO INSTALL A NEW LINTEL OVER THE OPENINGS. PATCH AND REPAIR SURROUNDING MASONRY AS NECESSARY. REFER TO STRUCTURAL FOR LINTEL DETAIL. |
| 2 | REMOVE EXISTING CONCRETE FLOOR SLAB IN ITS ENTIRETY. PREP AREA TO RECEIVE NEW CONCRETE SLAB, VAPOR BARRIER AND DRAINAGE FILL. COORDINATE FINAL LOCATION OF CUT WITH STRUCTURAL, PLUMBING, AND ELECTRICAL AND OTHER TRADES AS REQUIRED. CONCRETE CUT IS DIAGRAMMATIC. CONTRACTOR SHALL CUT AS REQUIRED FOR NEW WORK SHOWN. COORDINATE WITH ALL TRADES FOR COMPLETE SIZE, LOCATION, AND EXTENTS OF SLAB CUTS. REFER TO STRUCTURAL FOR NEW SLAB DETAILS. |
| 3 | CUT EXISTING ROOF, ROOF DECK, AS NECESSARY FOR NEW OPENING. FRAME OPENING AS INDICATED BY STRUCTURAL. REFER TO DRAWINGS FOR EXACT LOCATION AND SIZE OF OPENING. |
| 4 | REMOVE EXISTING ROOF ASSEMBLY (WOOD ROOF FRAMING, DECK, NAILERS, ROOF MEMBRANE, INSULATION) TO THE EXTENTS SHOWN. CUTS SHOWN ARE DIAGRAMMATIC. SHORE EXISTING STRUCTURE AS NECESSARY TO MAINTAIN THE EXISTING TO REMAIN ASSEMBLIES INTACT. REFER TO STRUCTURAL FOR NEW FRAMING. |
| 5 | REMOVE EXISTING WALL ASSEMBLY TO THE FACE OF CMU WALL ASSEMBLY SHALL BE REMOVED FROM TOP OF FOOTING TO TOP OF CMU WALL. UON, CMU TO REMAIN. |
| 6 | REMOVE EXISTING SKYLIGHT. PATCH AND REPAIR SURROUNDING ROOF DECKING AS NECESSARY. INFILL OPENING AS INDICATED BY STRUCTURAL. |

DEMOLITION LEGEND:

SYMBOL	DESCRIPTION
	EXISTING CMU WALL TO REMAIN
	EXISTING STRUCTURAL ELEMENT TO REMAIN
	EXISTING CMU WALL TO BE REMOVED
	EXISTING SLAB TO BE REMOVED
	EXISTING ROOF DECK TO BE REMOVED
	EXISTING TO BE REMOVED DURING DEMOLITION



1
A0-04 DEMOLITION REFLECTED CEILING PLAN - AREA A
1/8" = 1'-0"



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Renovation
Onslow County Government
4024 Richlands Hwy, Jacksonville, NC 28540**

ID	DATE	DESCRIPTION
3	11/19/2024	Addendum 3

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CHECKED BY: JEG

DEMOLITION
REFLECTED
CEILING PLAN -
AREA A
2021029 19 NOV. 2024

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GENERAL DEMOLITION NOTES:

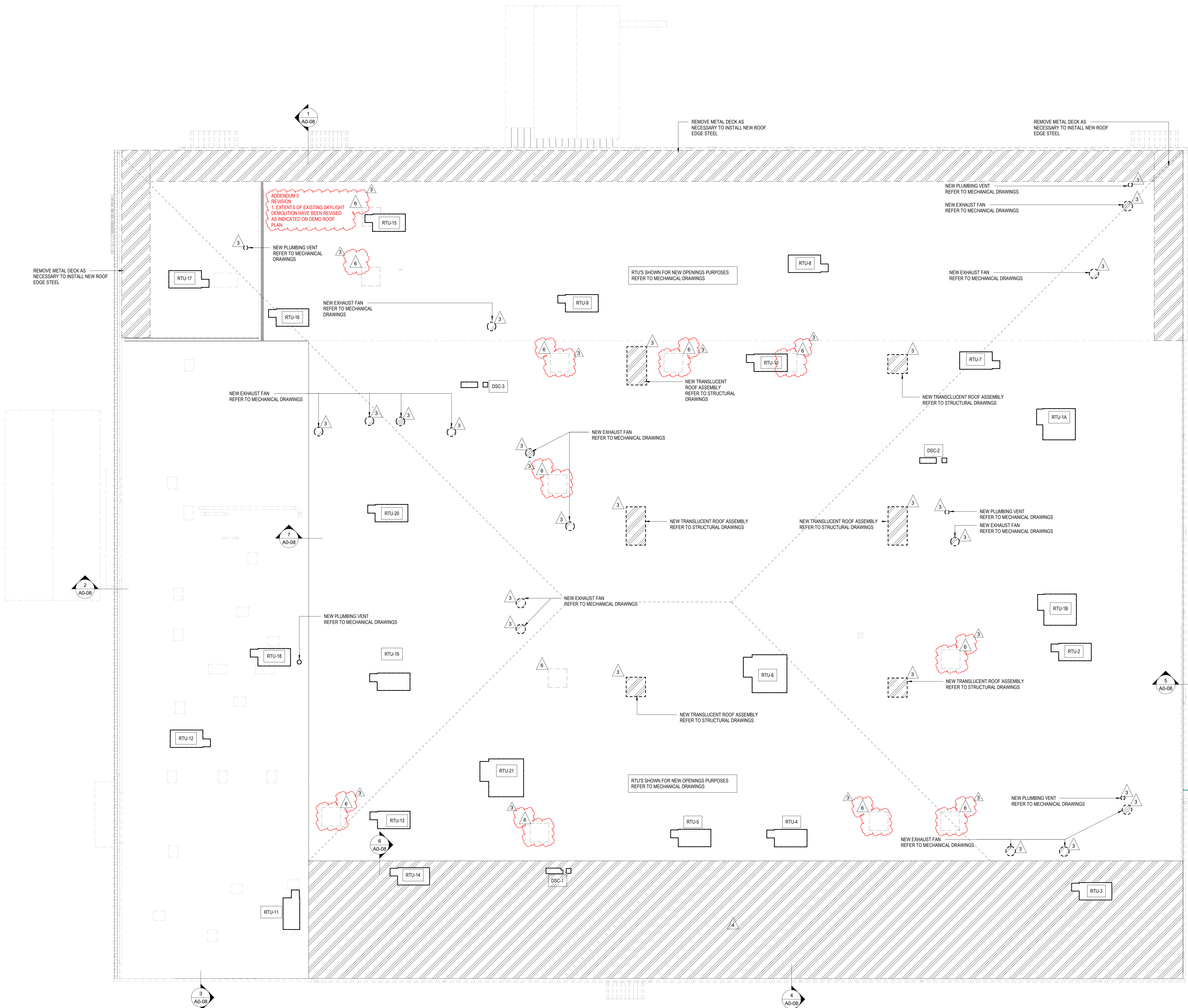
- DEMOLISH AND REMOVE EXISTING CONSTRUCTION, INCLUDING ALL WALLS, DOORS, WINDOWS, FINISHES, PLUMBING, MECHANICAL, ELECTRICAL, FIRE SUPPRESSION, FIRE ALARM, COMMUNICATIONS TO THE STRUCTURAL ELEMENTS (COLUMNS, CMU WALLS, ROOF FRAMING, ROOF DECK) AND CONCRETE SLAB TO REMAIN UNLESS OTHERWISE NOTED.
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- REMOVE EXISTING ROOF ASSEMBLY (INCLUDING GUTTERS AND DOWNSPOUTS) TO ROOF DECK UNLESS OTHERWISE INDICATED.

DEMOLITION SPECIFIC AREA NOTES:

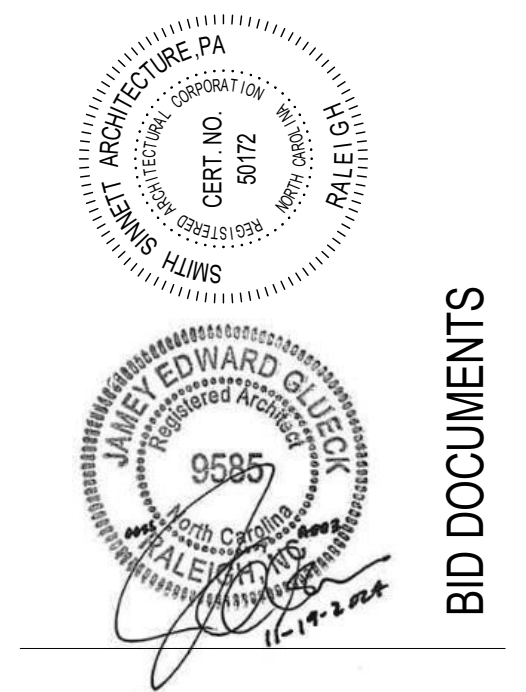
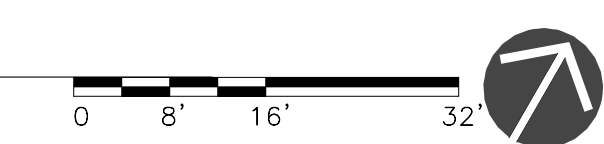
- | | |
|---|---|
| 1 | REMOVE EXISTING CMU WALL TO THE EXTENTS SHOWN. SHORE EXISTING STRUCTURAL AS NECESSARY TO MAINTAIN THE EXISTING TO REMAIN ASSEMBLIES INTACT. DEMOLITION SHALL BE SUFFICIENT ENOUGH TO INSTALL A NEW LINTEL OVER THE OPENINGS. PATCH AND REPAIR SURROUNDING MASONRY AS NECESSARY. REFER TO STRUCTURAL FOR LINTEL DETAIL. |
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| 6 | REMOVE EXISTING SKYLIGHT. PATCH AND REPAIR SURROUNDING ROOF DECKING AS NECESSARY. INFILL OPENING AS INDICATED BY STRUCTURAL. |

DEMOLITION LEGEND:

SYMBOL	DESCRIPTION
	EXISTING CMU WALL TO REMAIN
	EXISTING STRUCTURAL ELEMENT TO REMAIN
	EXISTING CMU WALL TO BE REMOVED
	EXISTING SLAB TO BE REMOVED
	EXISTING ROOF DECK TO BE REMOVED
	EXISTING TO BE REMOVED DURING DEMOLITION



1
A0-06 **OVERALL ROOF DEMOLITION PLAN**
1/8" = 1'-0"



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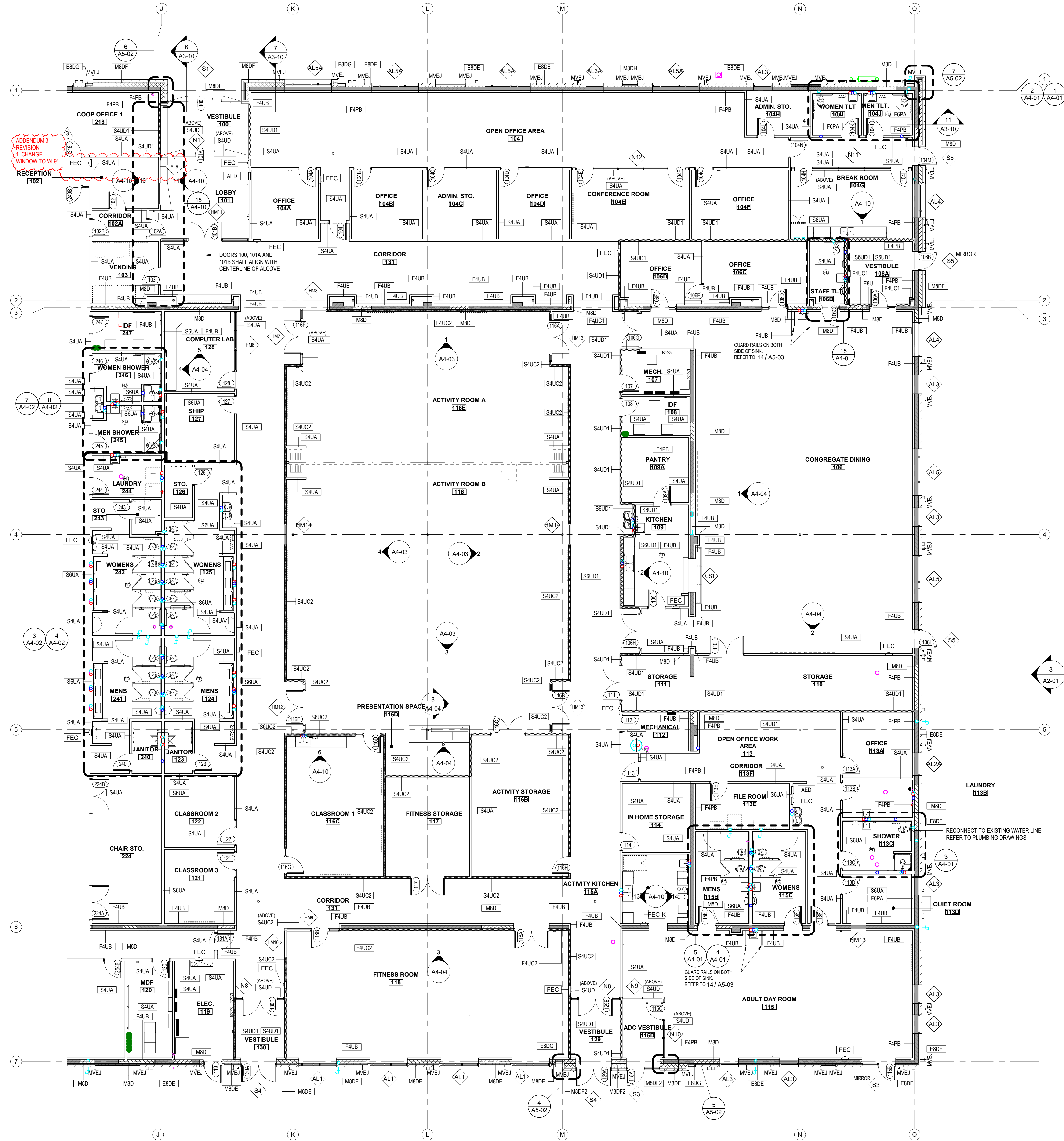
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3	11/19/2024	Addendum 3

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CHECKED BY: JEG
DEMO ROOF PLAN

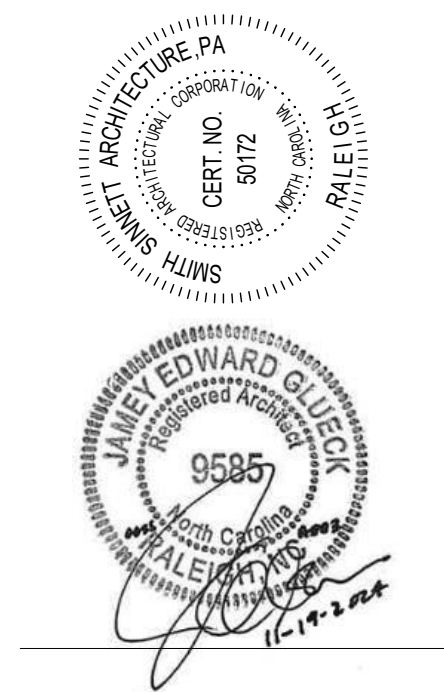
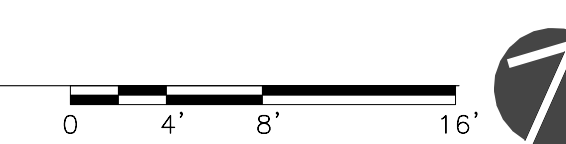
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GENERAL PROJECT NOTES:

1. WALL DIMENSIONS ARE TO FACE OF METAL STUD, FACE OF CONCRETE MASONRY UNIT (CMU), OR CENTERLINE OF COLUMN UNLESS OTHERWISE NOTED.
2. ALL CMU WALLS GOING TO BOTTOM OF DECK ARE TO PROVIDE A 1" GAP FOR DEFLECTION, FILL GAP WITH MINERAL WOOL INSULATION ALONG THE ENTIRE LENGTH OF WALL. AT FIRE RATED WALLS, ENSURE SPRAY APPLIED FIRE SEALANT BOTH SIDES.
3. ALL METAL STUD TERMINATING AT BOTTOM OF DECK ARE TO PROVIDE A DEFLECTION TRACK SECURED TO THE UNDERSIDE OF THE DECKING, NEXT TOP TRACK BUT DO NOT ATTACH TO DEFLECTION TRACK. FILL FLUTE IN METAL DECK WHERE REQUIRED.
4. CONTROL JOINTS SHALL BE AS SHOWN ON PLANS AND ELEVATIONS OR SPACED AT A MINIMUM OF 20'-0" OC AND A MAXIMUM OF 32'-0" OC WITH ONE CONTROL JOINT LOCATED WITHIN 3'-4" OF ANY CORNER FOR INTERIOR GYPSUM WALL CONTROL JOINTS SEE DETAIL.
5. SEE FINISH SCHEDULE FOR WALL, FLOOR, BASE, AND CEILING TYPES AND FINISHES.
6. REFER TO STRUCTURAL DRAWINGS FOR LOCATION OF REINFORCING, BOND BEAMS, BRACING, ETC.
7. ALL EXTERIOR CONCRETE PAVING SHALL SLOPE AWAY FROM THE BUILDING AT 1/4" PER FOOT, MINIMUM.
8. FURNITURE AND EQUIPMENT SHOWN DASHED ON PLANS IS NOT IN CONTRACT (NIC). REFER TO A1-08 AND A1-07 FOR FURNISHING AND EQUIPMENT PLANS.
9. GC TO PROVIDE WOOD BLOCKING FOR ALL WALL/CEILING MOUNTED ACCESSORIES.
10. FIELD VERIFY FINAL ROOM DIMENSIONS PRIOR TO CASEWORK FABRICATION.
11. THERE SHALL BE NO PENETRATIONS IN THROUGH WALL FLASHING.
12. DOOR JAMB FROM INTERSECTING WALLS: CMU - 8" UNLESS OTHERWISE NOTED. STUD - 4" UNLESS OTHERWISE NOTED.
13. REFER TO OVERALL FLOOR PLAN FOR DEPRESSED SLAB LOCATIONS. 2" BELOW FINISHED FLOOR. TYPICAL ALL DEPRESSED SLAB AREAS.



1 ANNOTATION PLAN - AREA A
A1-02 1/8" = 1'-0"



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ID	DATE	Description
3	11/19/2024	Addendum 3

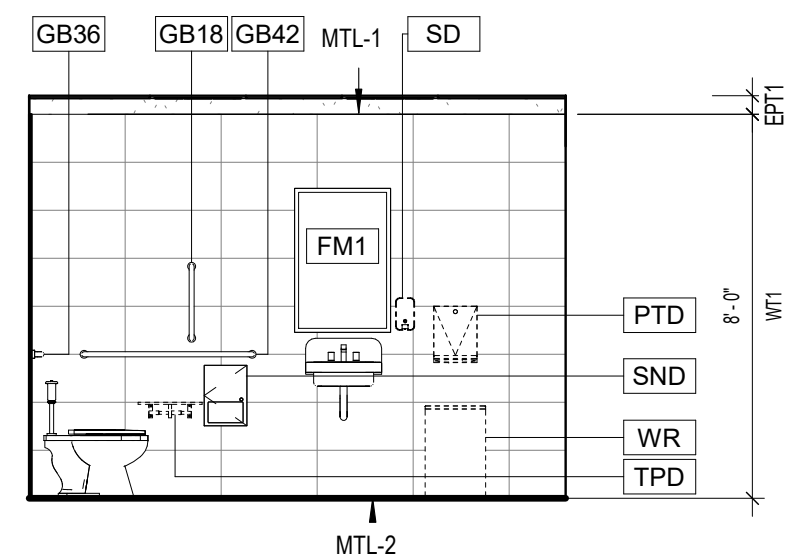
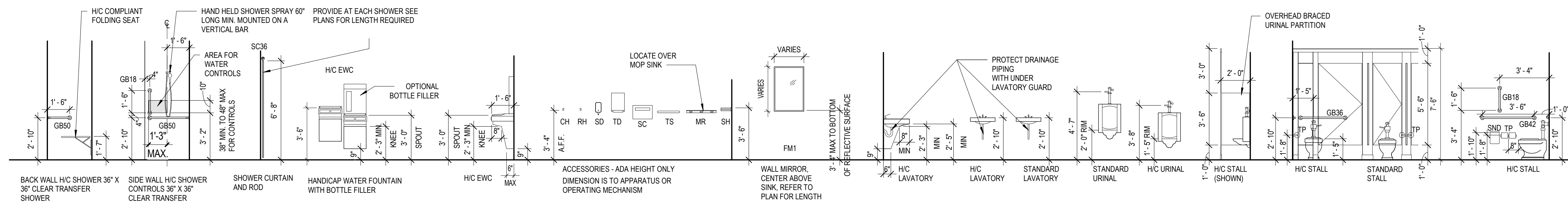
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CHECKED BY: JEG

FIRST FLOOR
ANNOTATION PLAN
- AREA A

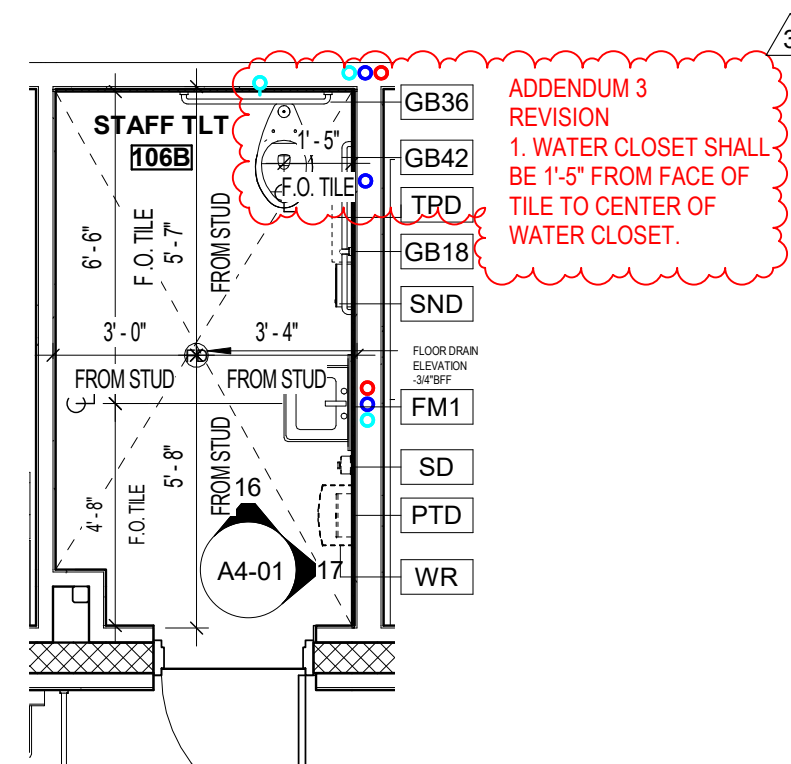
2021029 19 NOV. 2024

A1-02

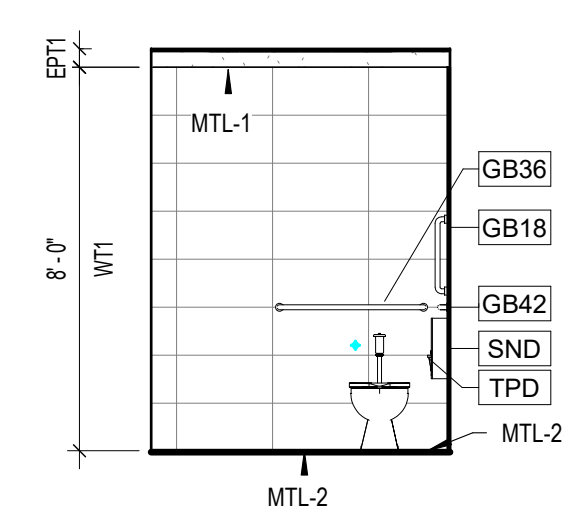
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- MTL-2 METAL TRIM-SCHLUTER - DILEX-EHK (DETAIL 12/ A6-02)
- MTL-3 METAL TRIM-SCHLUTER - QUADEC (DETAIL 11/ A6-02)



17 TOILET 106B - EAST ELEVATION
A4-01 1/4" = 1'-0"

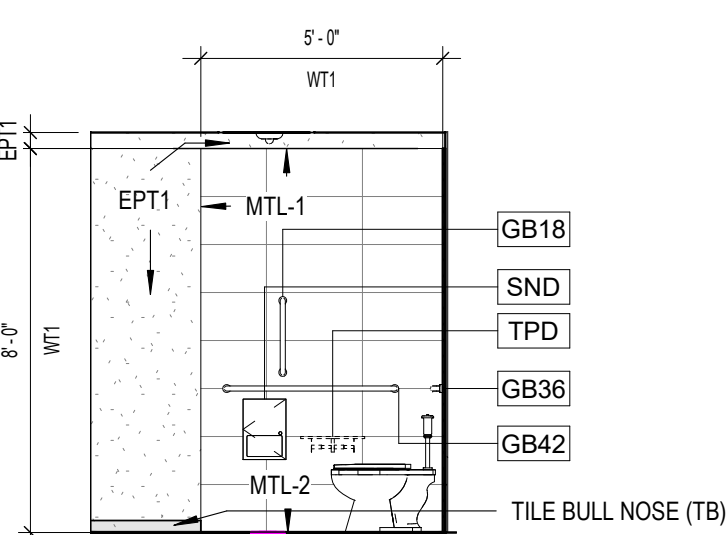


15 ENLARGED ANNOTATION PLAN - TOILET 106B
A4-01 1/4" = 1'-0"

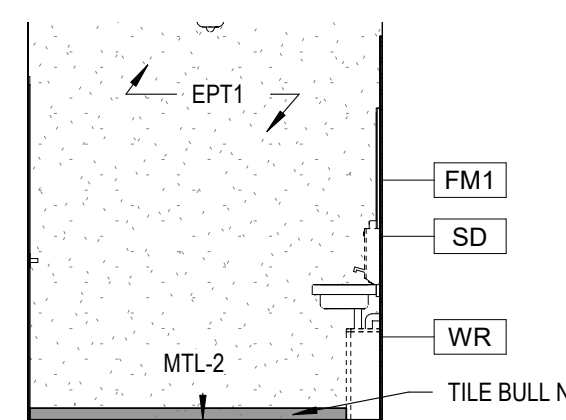


16 TOILET 106B - NORTH ELEVATION
A4-01 1/4" = 1'-0"

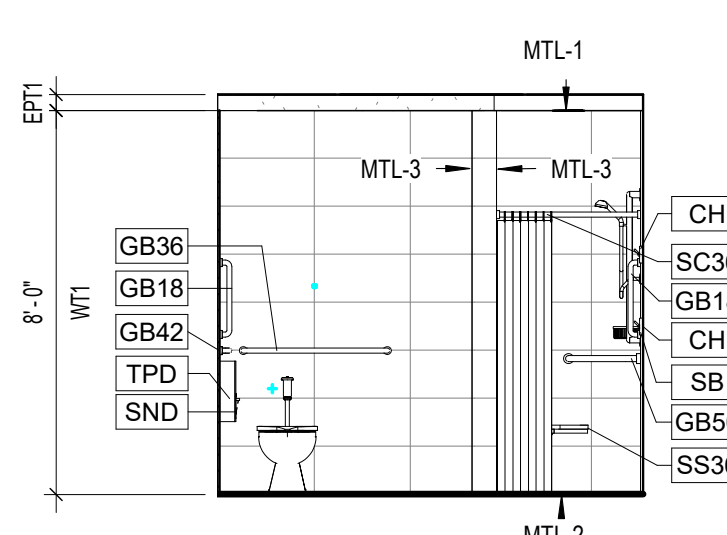
MARK	MODEL	DESCRIPTION	FURNISHED BY/INSTALLED BY	MOUNTING HEIGHT	MANUFACTURER	REMARKS
CH	123	CLOTHES HOOK - SURFACE MOUNTED	CFCI	60" A.F.F. TO CENTER HIGH HOOK, 42" A.F.F. TO CENTER LOW HOOK	ASI	
CS	KB310-SWMM	BABY CHANGING STATION	CFCI	34" A.F.F. TO CENTER OF FIXTURE	BRADLEY	STAINLESS STEEL EXTERIOR
FM1	B-165	40" A.F.F. TO BOTTOM OF REFLECTIVE SURFACE	CFCI	40" A.F.F. TO BOTTOM OF REFLECTIVE SURFACE	BOBRICK	TEMPERED GLASS CHANNEL FRAME MIRROR
FM2	8287	Mirror - Frameless - Polished Plate Glass - 1/4" Thick (8287)	CFCI	4" A.F.F. TO BOTTOM OF REFLECTIVE SURFACE	BOBRICK	TEMPERED GLASS CHANNEL FRAMELESS MIRROR
GB18	B-6806	1 1/2" DIA. X 18" S.S. VERTICAL GRAB BAR - PEENED	CFCI	34" A.F.F. TO CENTER OF FIXTURE	BOBRICK	
GB36	B-6806	1 1/2" DIA. X 36" S.S. GRAB BAR - PEENED	CFCI	34" A.F.F. TO CENTER OF FIXTURE	BOBRICK	
GB42	B-6806	1 1/2" DIA. X 42" S.S. GRAB BAR - PEENED	CFCI	34" A.F.F. TO CENTER OF FIXTURE	BOBRICK	
GB50	B-6861	1 1/2" DIA. X 16" X 30" S.S. GRAB BAR - PEENED	CFCI	34" A.F.F. TO TOP OF BAR	BOBRICK	
MR	8215-4	MOP RACK - 4 HOLDERS	CFCI		ASI	ASI 1315
PTD	--	SURFACE MOUNTED PAPER TOWEL DISPENSER	OFCI	40" A.F.F. TO POINT OF DISPENSION		
SB	K-1896-S	MEDIUM SHOWER BASKET	CFCI	40" A.F.F. TO TOP	ASI	ASI 7322
SC36	1204	36" HEAVY DUTY S.S. SHOWER CURTAIN ROD ASI 1214, VINYL CURTAIN ASI-1200V, AND S.S. HOOKS ASI 1200-SHU	CFCI	80" A.F.F. TO BOTTOM OF BAR	ASI	
SD	--	S.S. SURFACE MOUNTED VERTICAL LIQUID SOAP DISPENSER	OFCI	40" A.F.F. TO POINT OF DISPENSION	<varies>	
SND	B-254	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL	CFCI	24" MAX TO POINT OF DISPENSION	BOBRICK	
SS36	8206	36" FOLDING SHOWER SEAT	CFCI	17"-19" A.F.F. TO TOP OF SEAT	ASI	
TPD	--	SURFACE MOUNTED TOILET TISSUE DISPENSER WITH UTILITY SHELF	OFCI	20" TO POINT OF DISPENSION	BOBRICK	
US	1315-4	SHELF/ UTILITY HOOK & MOP STRIP	CFCI	56" ABOVE STAINLESS STEEL PANEL	ASI	
WR	--	WASTE RECEPTACLE	OFCI	FLOOR MOUNTED		



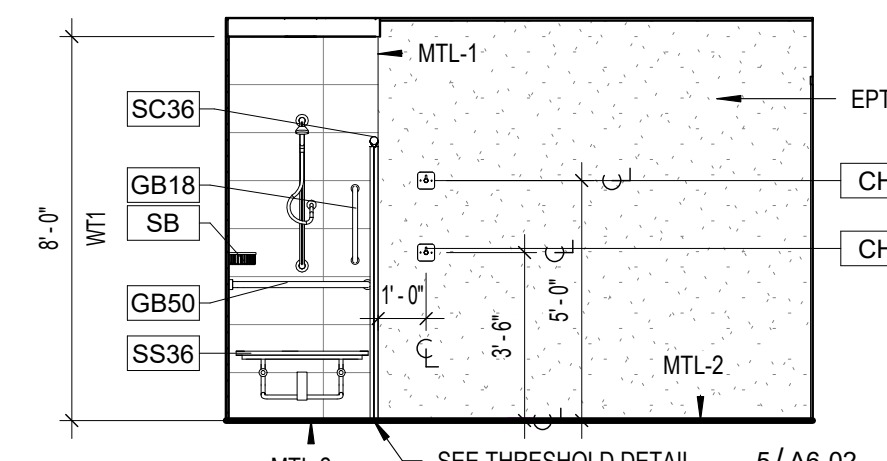
11 TOILET 104I - WEST ELEVATION
A4-01 1/4" = 1'-0"



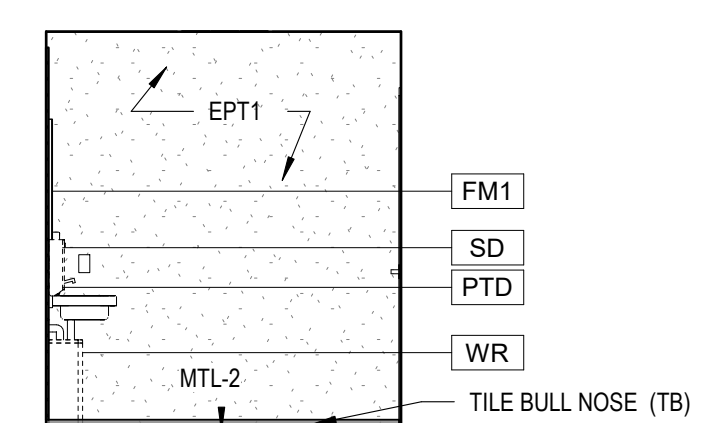
12 TOILET 104J - WEST ELEVATION
A4-01 1/4" = 1'-0"



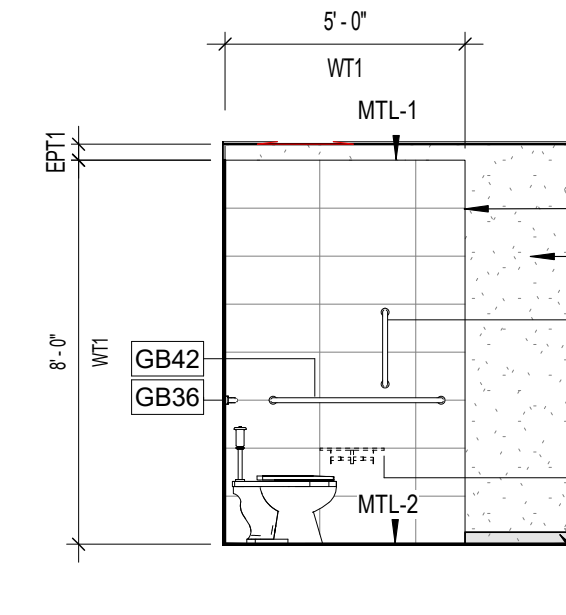
13 TOILET 113C - EAST ELEVATION
A4-01 1/4" = 1'-0"



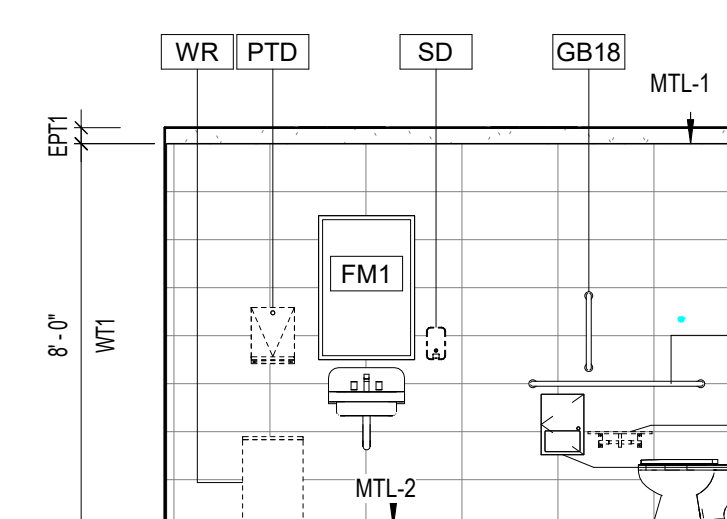
14 113C TOILET - SHOWER
A4-01 1/4" = 1'-0"



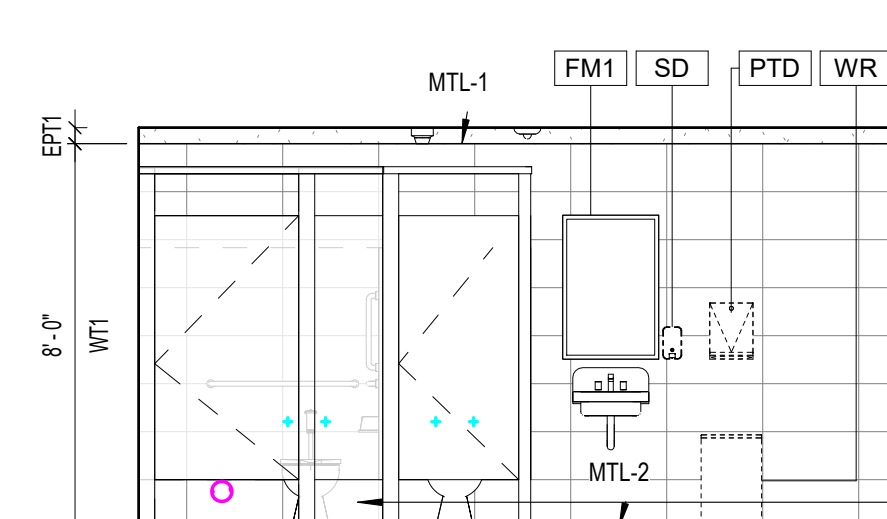
6 TOILET 104I - EAST ELEVATION
A4-01 1/4" = 1'-0"



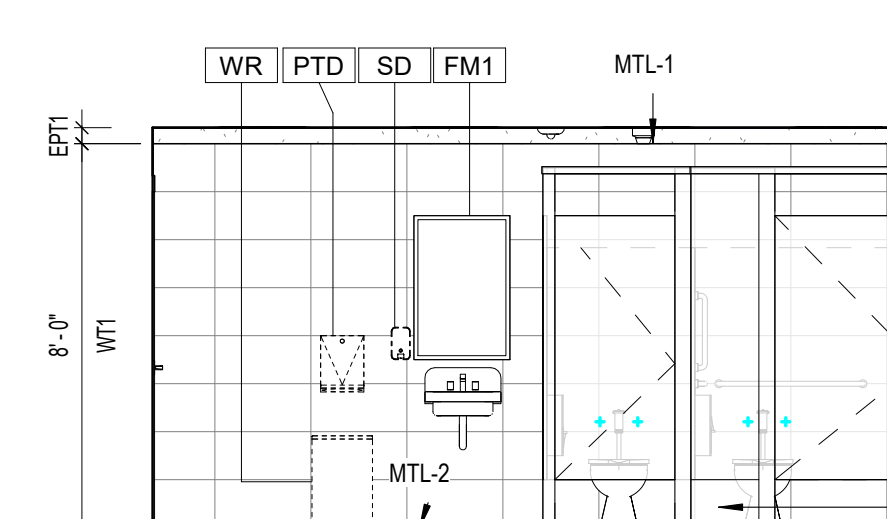
7 TOILET 104J - EAST ELEVATION
A4-01 1/4" = 1'-0"



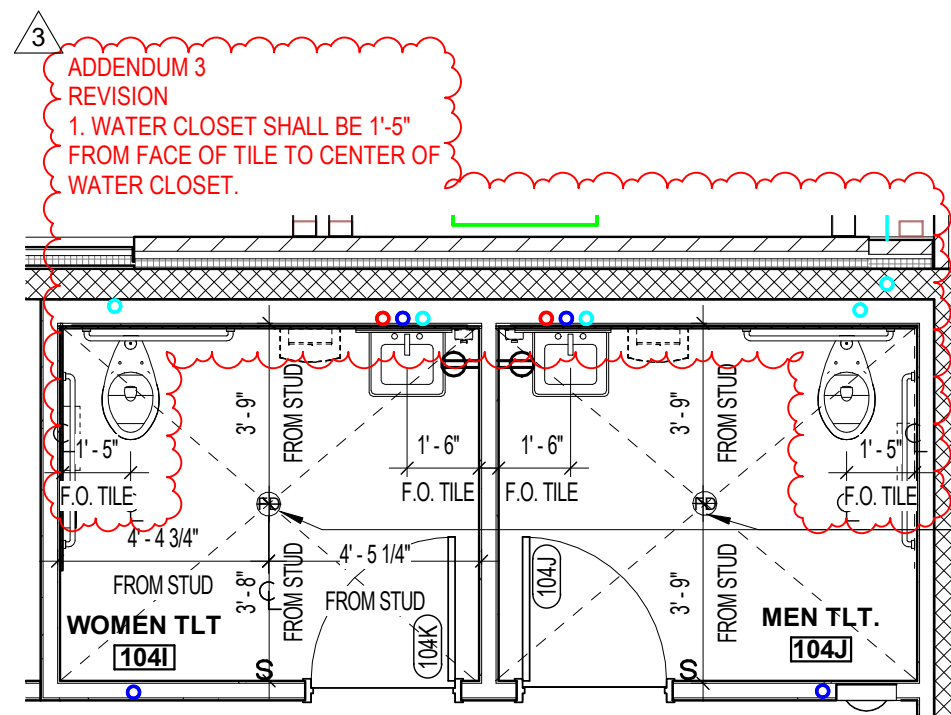
8 TOILET 113C - NORTH ELEVATION
A4-01 1/4" = 1'-0"



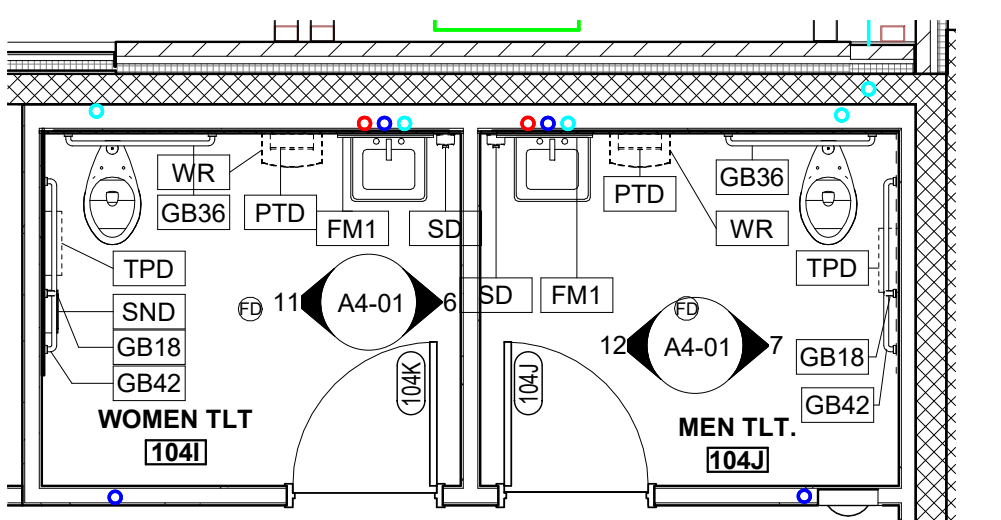
9 TOILET 115B - EAST ELEVATION
A4-01 1/4" = 1'-0"



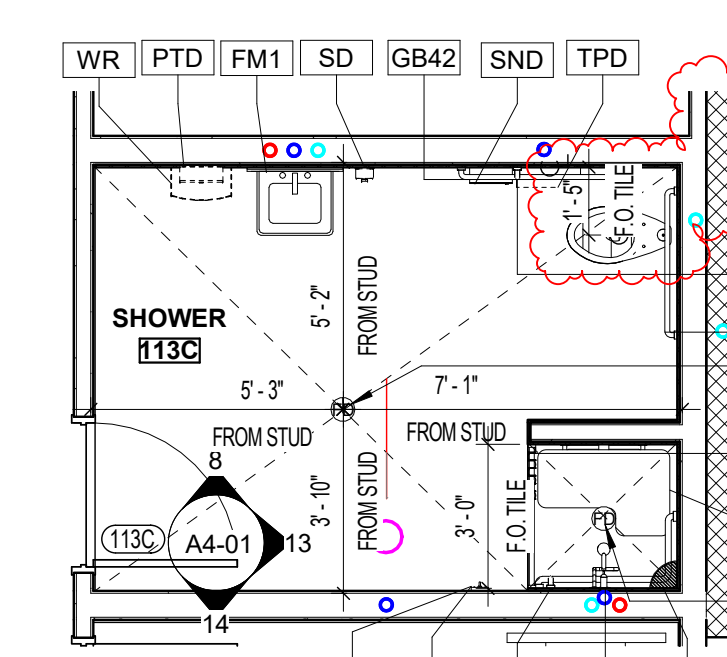
10 TOILET 115C - WEST ELEVATION
A4-01 1/4" = 1'-0"



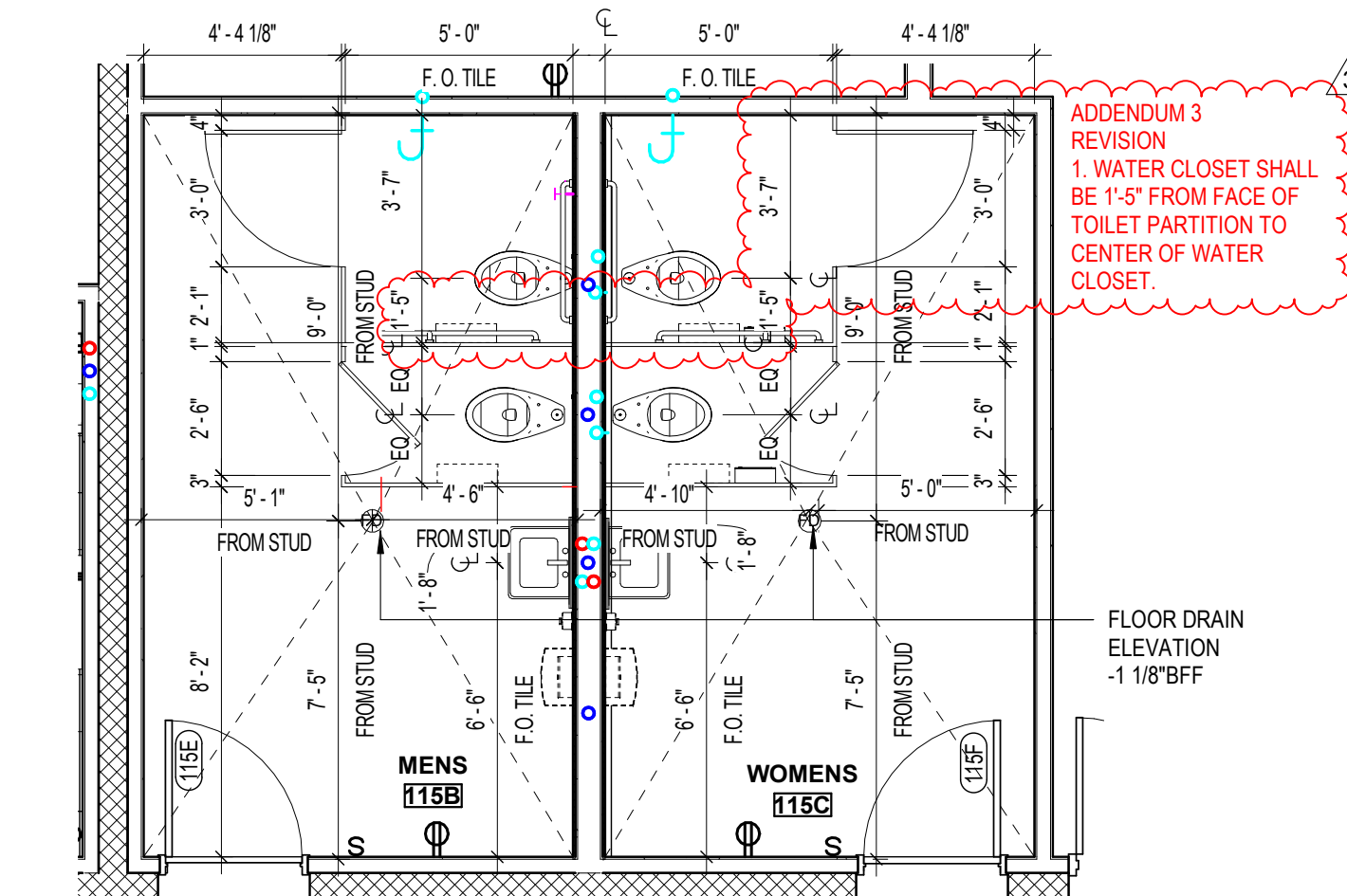
1 ENLARGED DIMENSION PLAN - TOILETS 104I AND 104J
A4-01 1/4" = 1'-0"



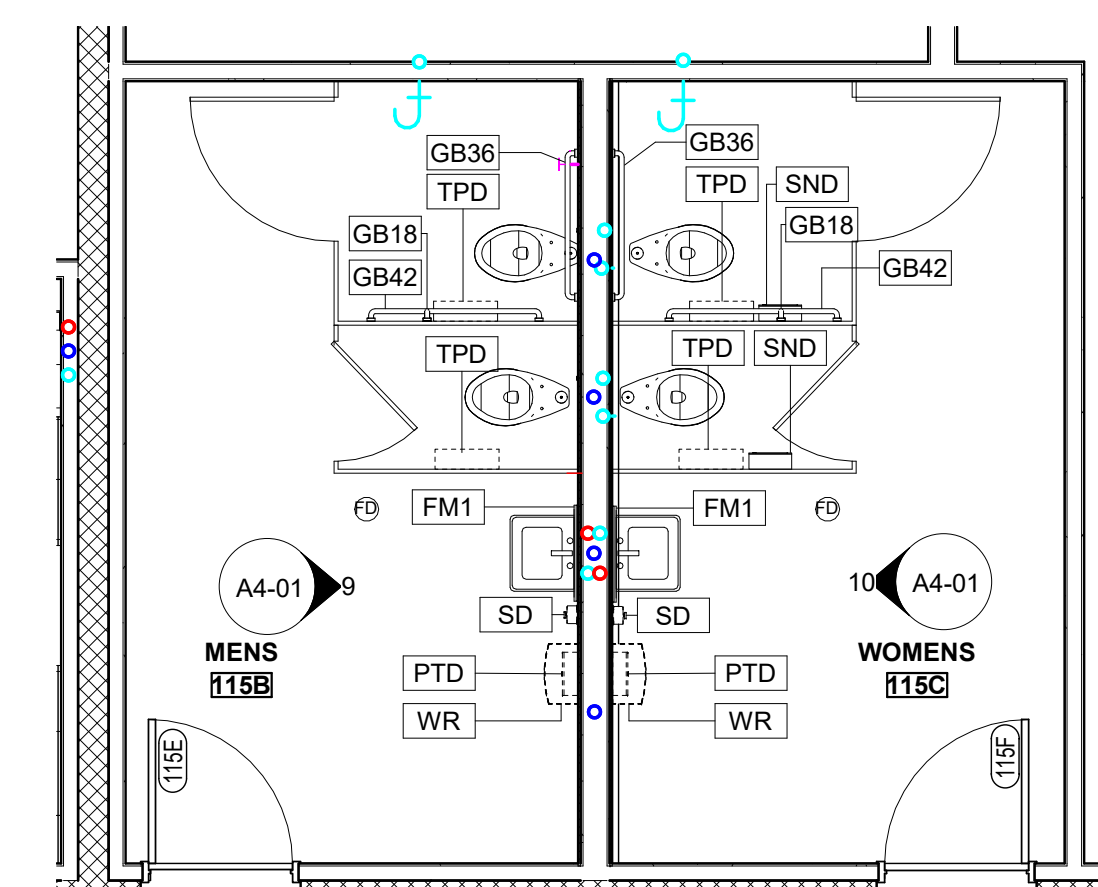
2 ENLARGED ANNOTATION PLAN - TOILETS 104I AND 104J
A4-01 1/4" = 1'-0"



3 ENLARGED ANNOTATION AND DIMENSION PLAN - TOILET 113C
A4-01 1/4" = 1'-0"

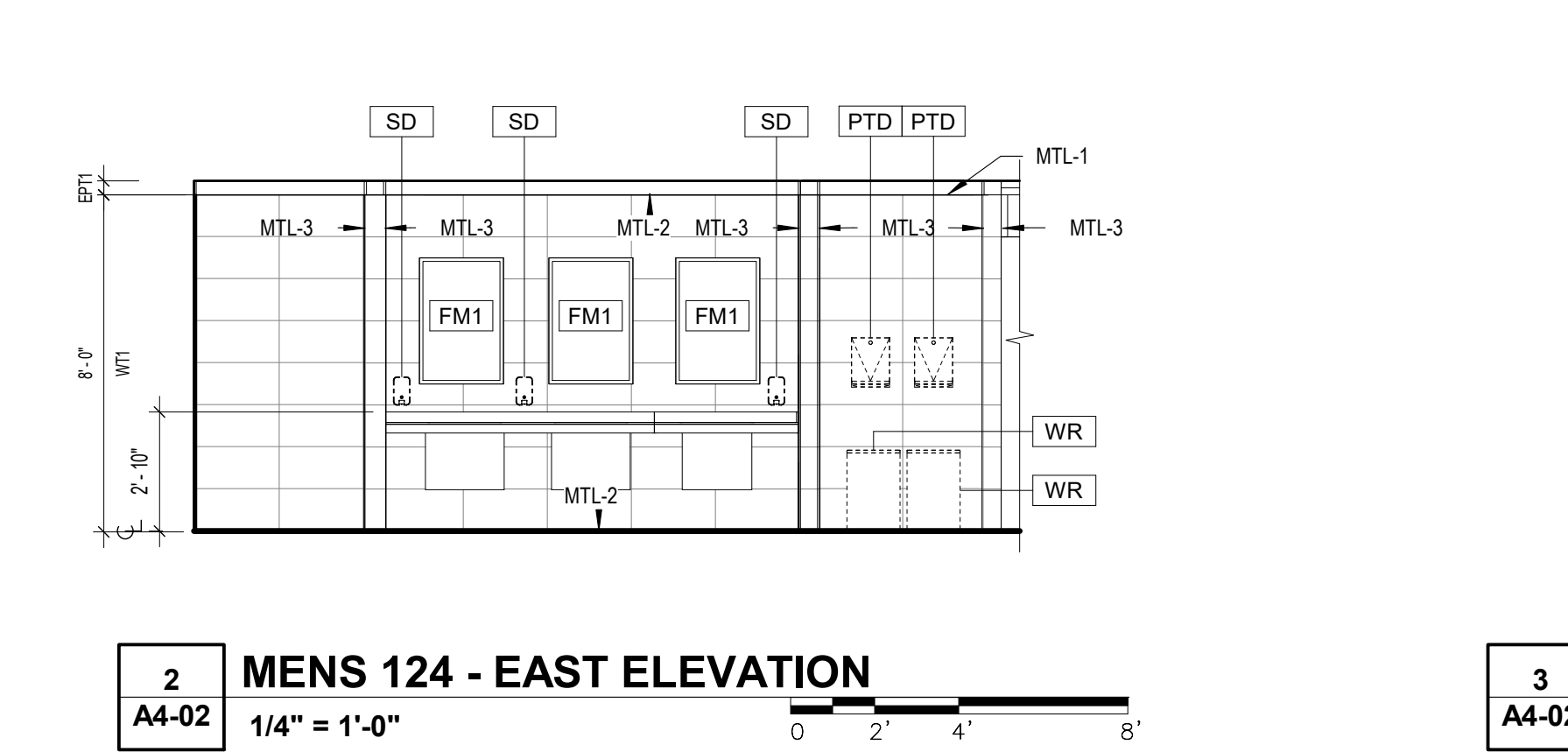
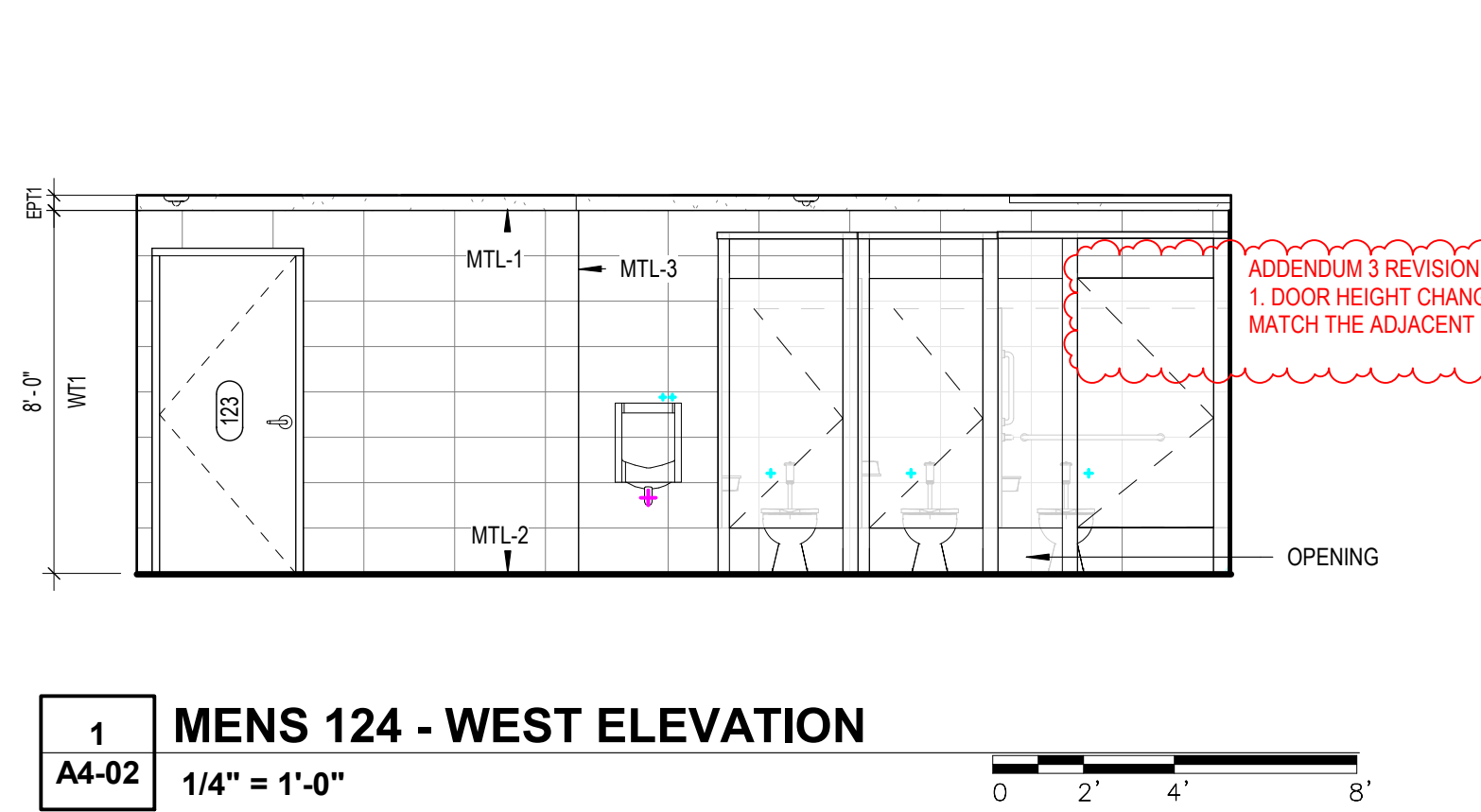
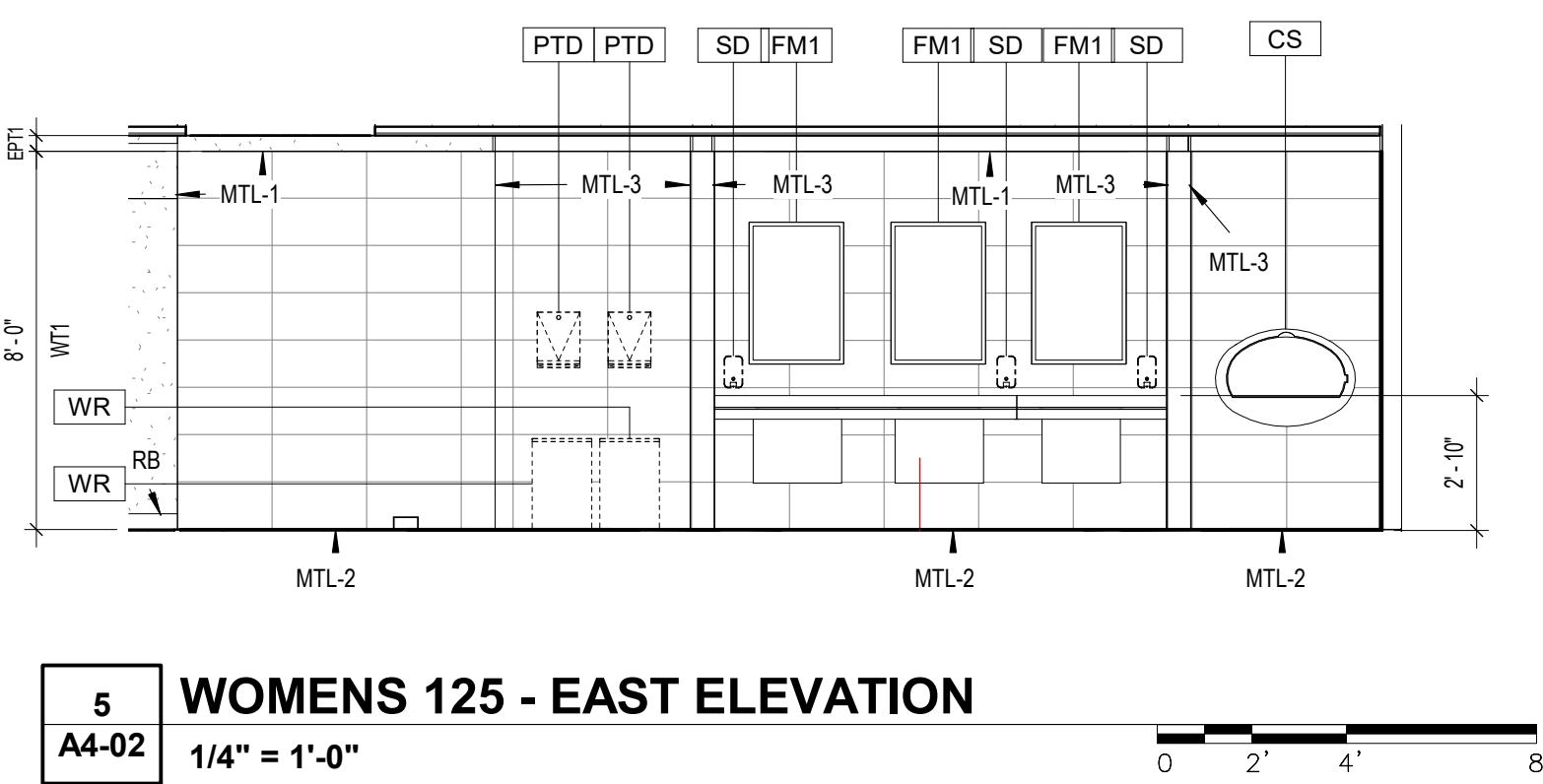
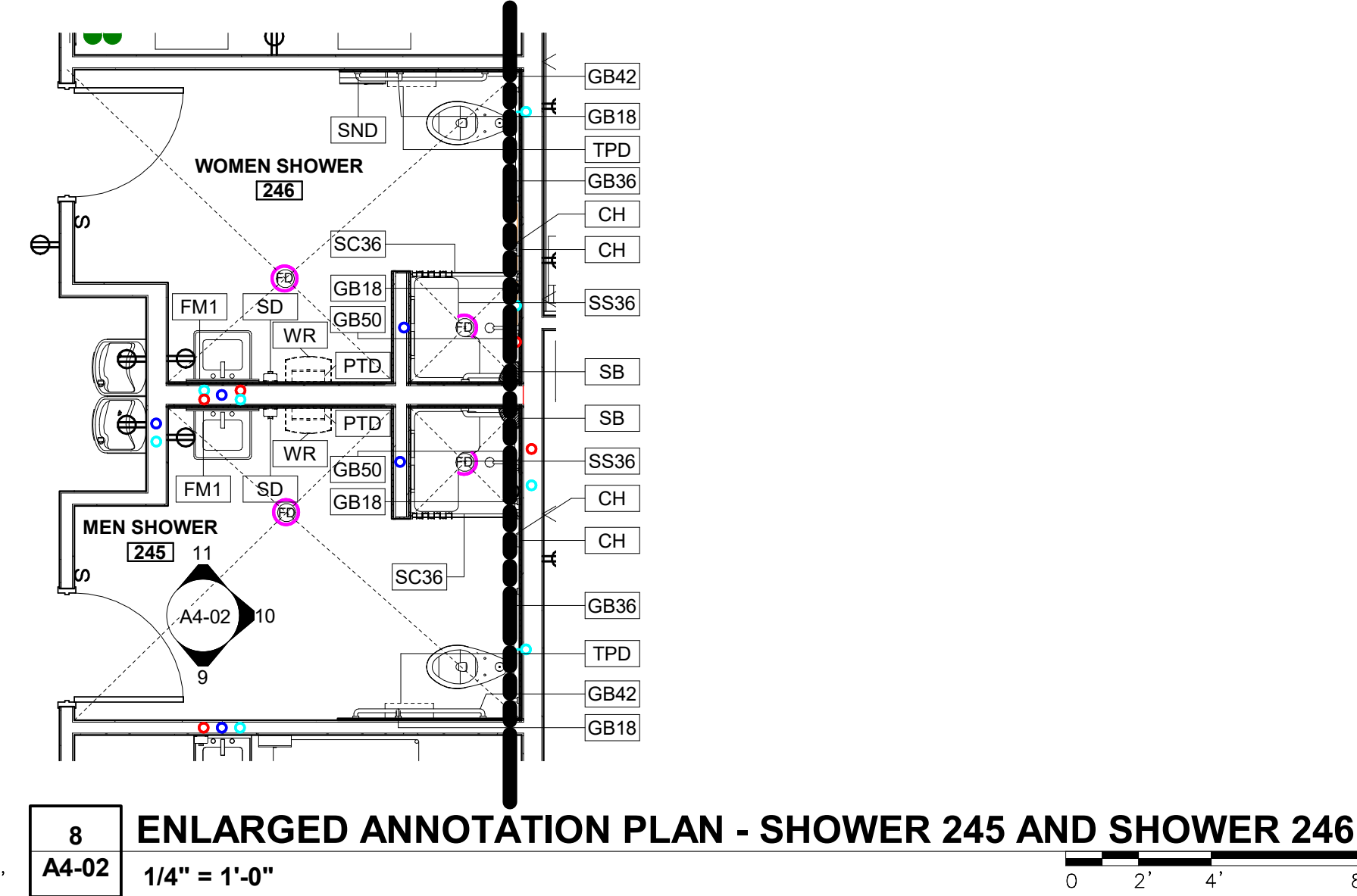
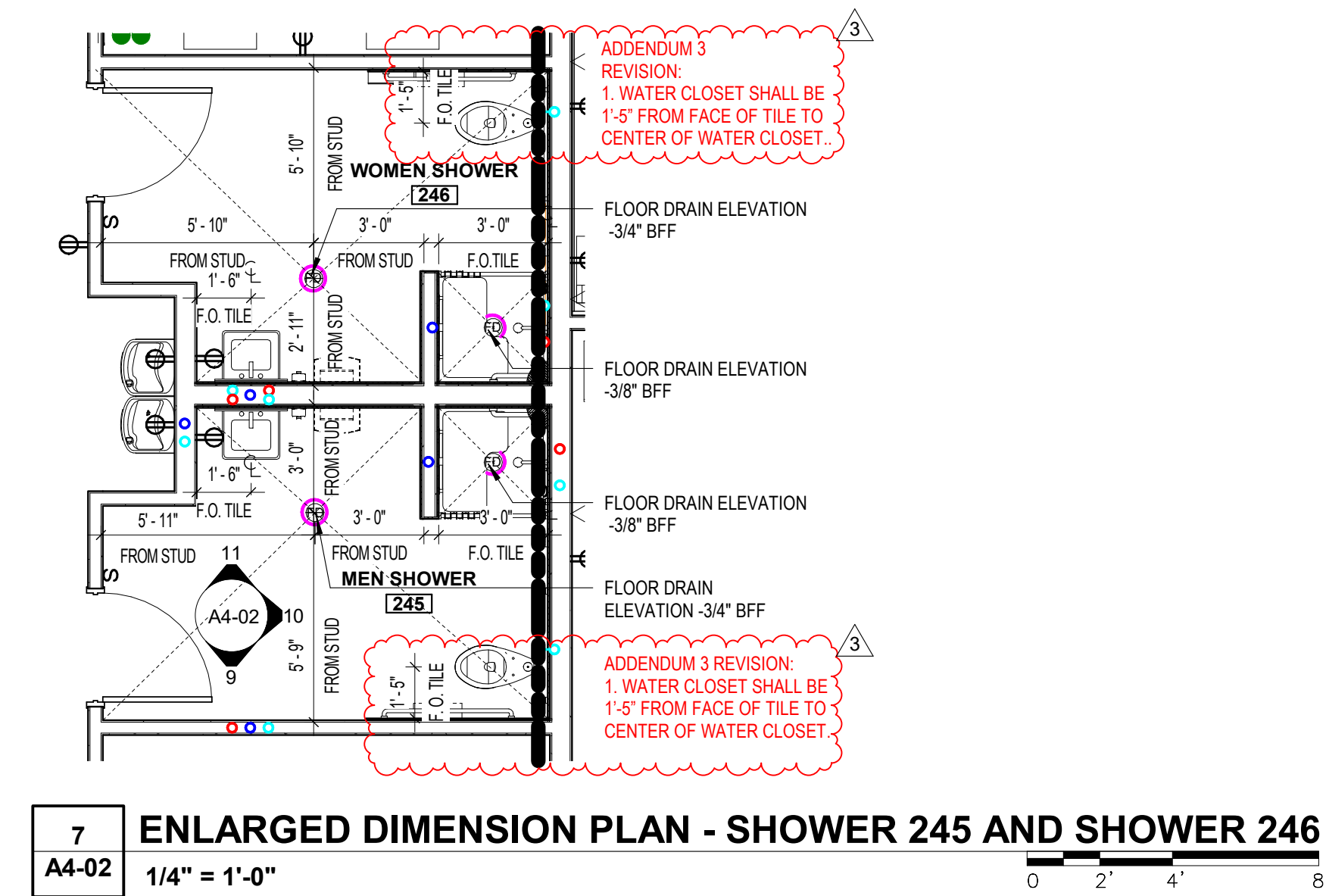
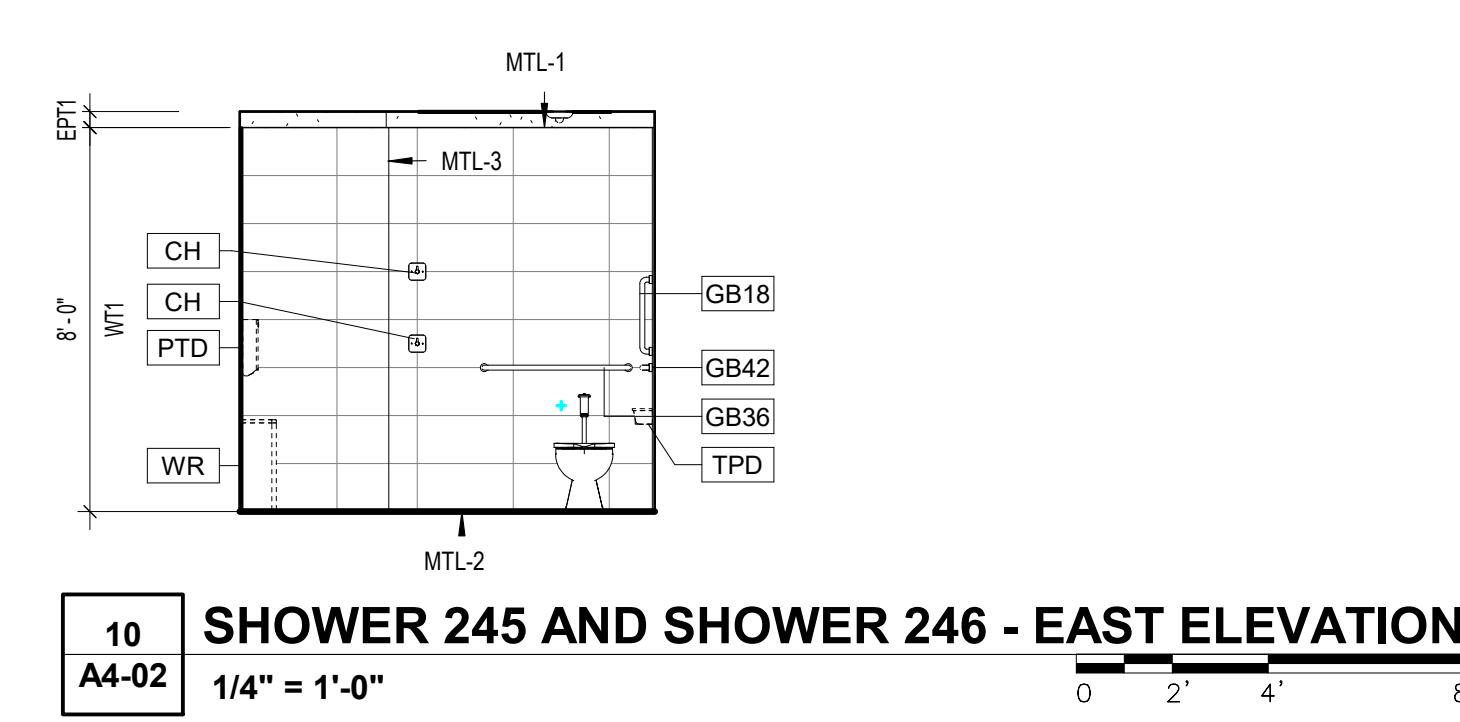
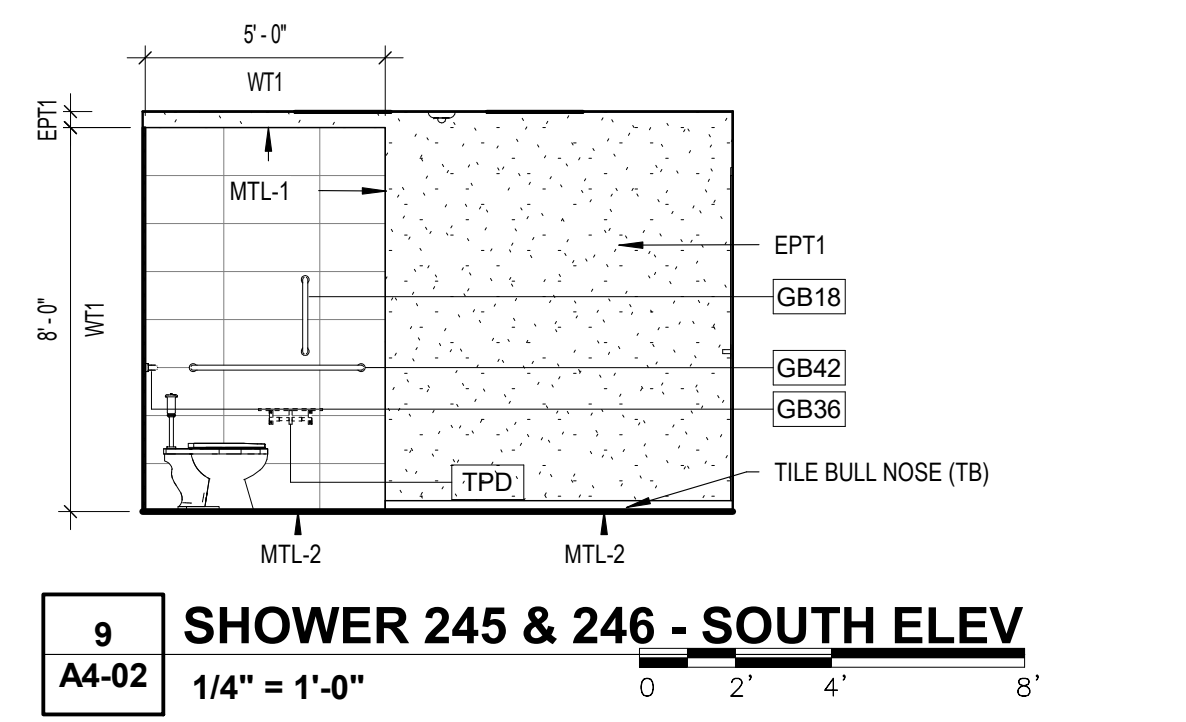
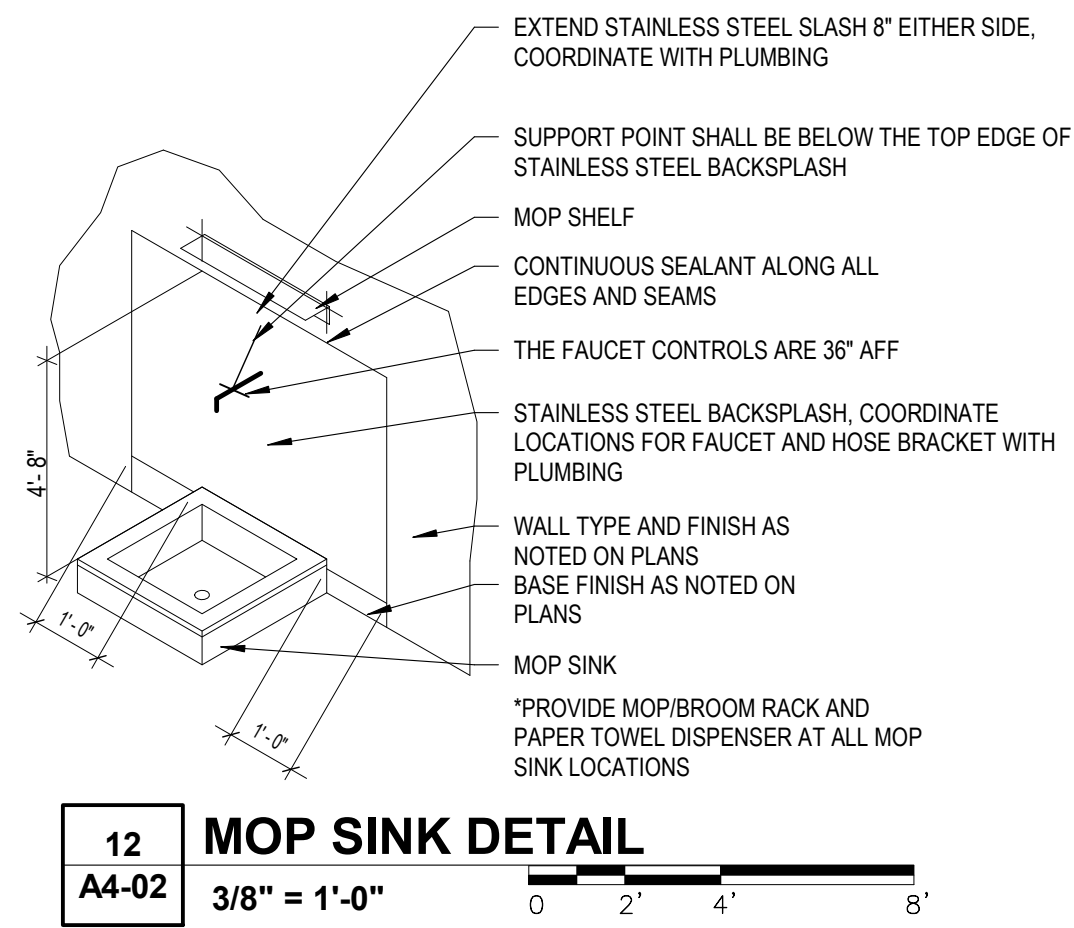
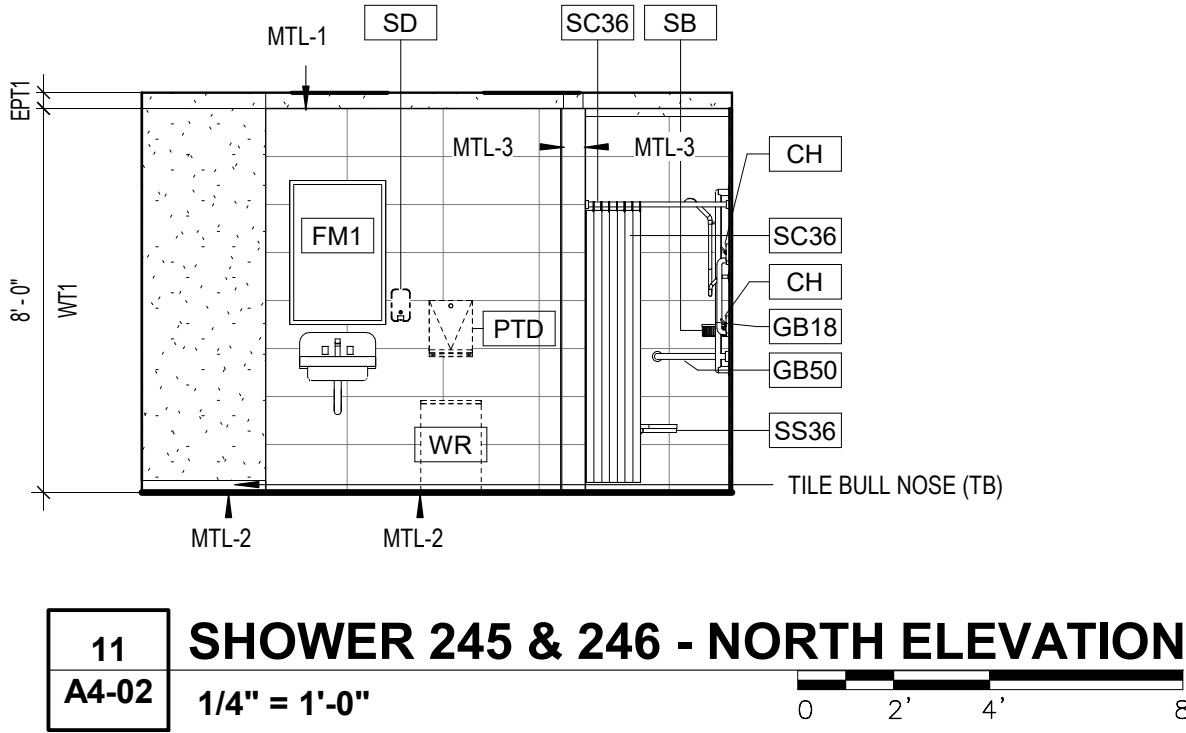
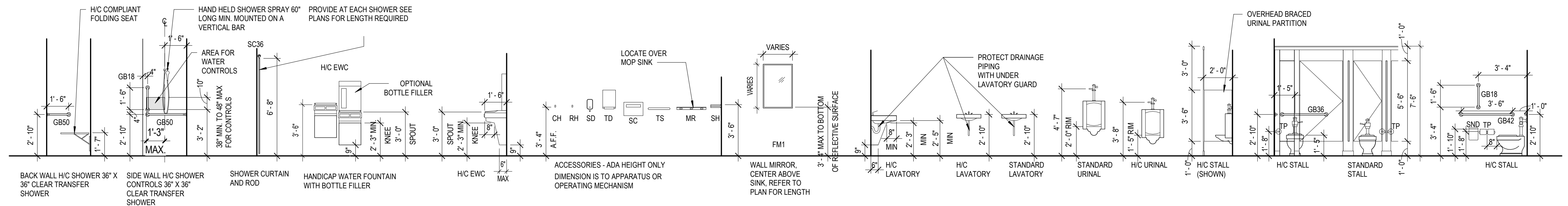


4 ENLARGED DIMENSION PLAN - TOILETS 115B AND 115C
A4-01 1/4" = 1'-0"

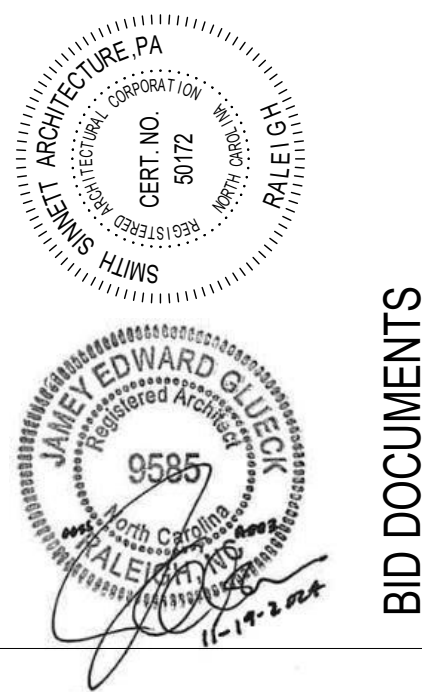
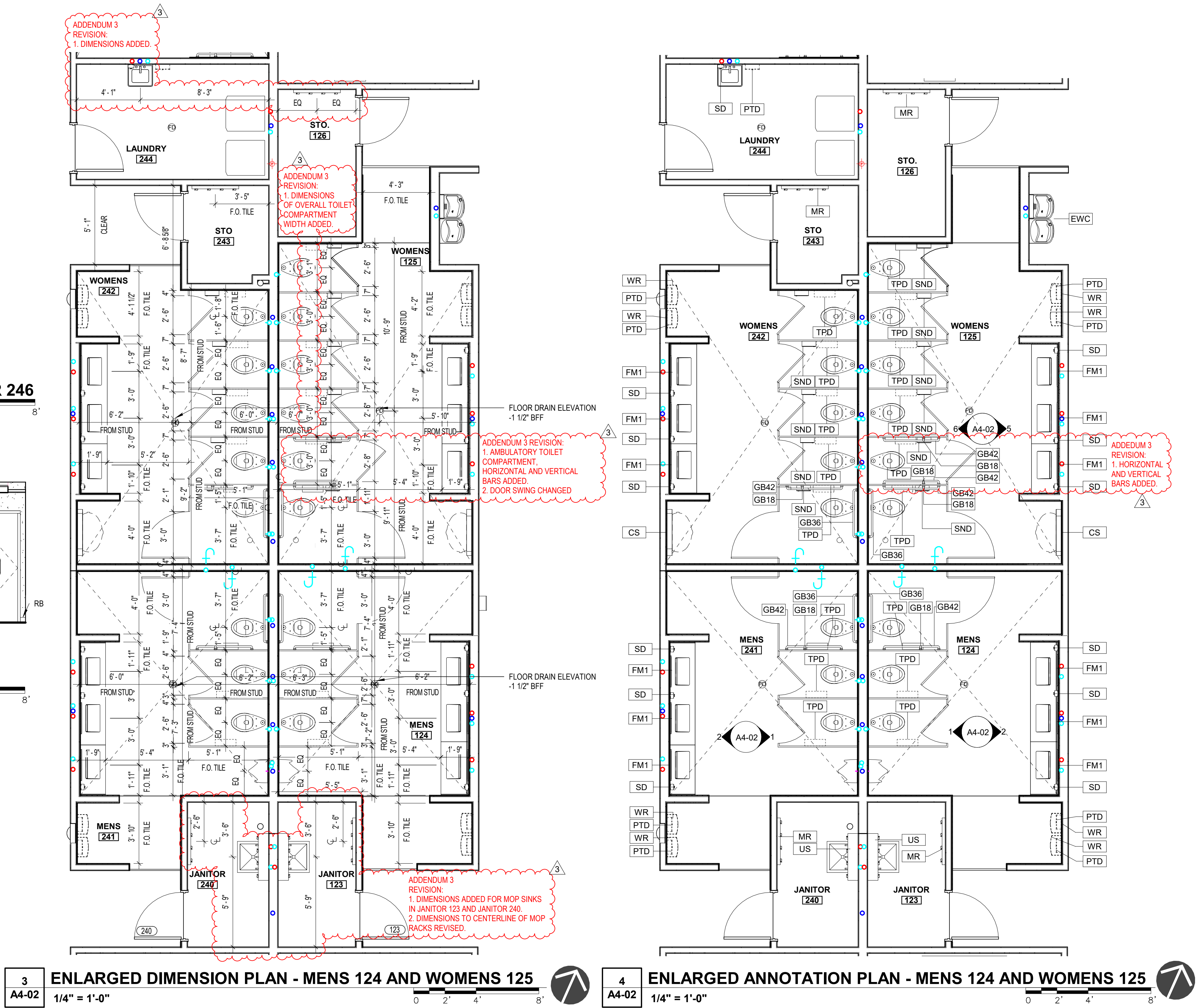


5 ENLARGED ANNOTATION PLAN - TOILETS 115B AND 115C
A4-01 1/4" = 1'-0"

MTL-1 METAL TRIM-SCHLUTER - JOLLY (DETAIL 10/ A6-02)
 MTL-2 METAL TRIM-SCHLUTER - DILEX-EHK (DETAIL 12/ A6-02)
 MTL-3 METAL TRIM-SCHLUTER - QUADAC (DETAIL 11/ A6-02)



MARK	MODEL	DESCRIPTION	FURNISHED BY/INSTALLED BY	MOUNTING HEIGHT	MANUFACTURER	REMARKS
CH	123	CLOTHES HOOK - SURFACE MOUNTED	CFCI	60" A.F.F. TO CENTER HIGH HOOK, 42" A.F.F. TO CENTER LOW HOOK	ASI	
CS	KB310-SSWM	BABY CHANGING STATION	CFCI	34" A.F.F. TO CENTER OF FIXTURE	BRADLEY	STAINLESS STEEL EXTERIOR
FM1	B-165	40" A.F.F. TO BOTTOM OF REFLECTIVE SURFACE	CFCI	40" A.F.F. TO BOTTOM OF REFLECTIVE SURFACE	BOBRICK	TEMPERED GLASS CHANNEL FRAME MIRROR
FM2	8287	Mirror - Frameless - Polished Plate Glass - 1/4" Thick (8287)	CFCI	4" A.F.F. TO BOTTOM OF REFLECTIVE SURFACE	BOBRICK	TEMPERED GLASS CHANNEL FRAMELESS MIRROR
GB18	B-6806	1 1/2" DIA. X 18" S.S. VERTICAL GRAB BAR - PEENED	CFCI	34" A.F.F. TO CENTER OF FIXTURE	BOBRICK	
GB36	B-6806	1 1/2" DIA. X 36" S.S. GRAB BAR - PEENED	CFCI	34" A.F.F. TO CENTER OF FIXTURE	BOBRICK	
GB42	B-6806	1 1/2" DIA. X 42" S.S. GRAB BAR - PEENED	CFCI	34" A.F.F. TO CENTER OF FIXTURE	BOBRICK	
GB50	B-6861	1 1/2" DIA. X 16" X 30" S.S. GRAB BAR - PEENED	CFCI	34" A.F.F. TO TOP OF BAR	BOBRICK	
MR	8215-4	MOP RACK - 4 HOLDERS	CFCI	40" A.F.F. TO TOP OF BAR	ASI	ASI 1315
PTD	--	SURFACE MOUNTED PAPER TOWEL DISPENSER	OFCI	40" A.F.F. TO POINT OF DISPENSION		
SB	K-1896-S	MEDIUM SHOWER BASKET	CFCI	40" A.F.F. TO TOP	ASI	ASI 7322
SC36	1204	36" HEAVY DUTY S.S. SHOWER CURTAIN ROD ASI 1214, VINYL CURTAIN ASI-1200V, AND S.S. HOOKS ASI 1200-SHU	CFCI	80" A.F.F. TO BOTTOM OF BAR	ASI	
SD	--	S.S. SURFACE MOUNTED VERTICAL LIQUID SOAP DISPENSER	OFCI	40" A.F.F. TO POINT OF DISPENSION	<varies>	
SND	B-254	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL	CFCI	24" MAX TO POINT OF DISPENSION	BOBRICK	
SS36	8206	36" FOLDING SHOWER SEAT	CFCI	17"-19" A.F.F. TO TOP OF SEAT	ASI	
TPD	--	SURFACE MOUNTED TOILET TISSUE DISPENSER WITH UTILITY SHELF	OFCI	20" TO POINT OF DISPENSION	BOBRICK	
US	1315-4	SHELF/ UTILITY HOOK & MOP STRIP	CFCI	56" ABOVE STAINLESS STEEL PANEL	ASI	
WR	--	WASTE RECEPTACLE	OFOI	FLOOR MOUNTED		



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Onslow County Senior Services Center
 Renovation
 Onslow County Government
 4024 Richlands Hwy, Jacksonville, NC 28540

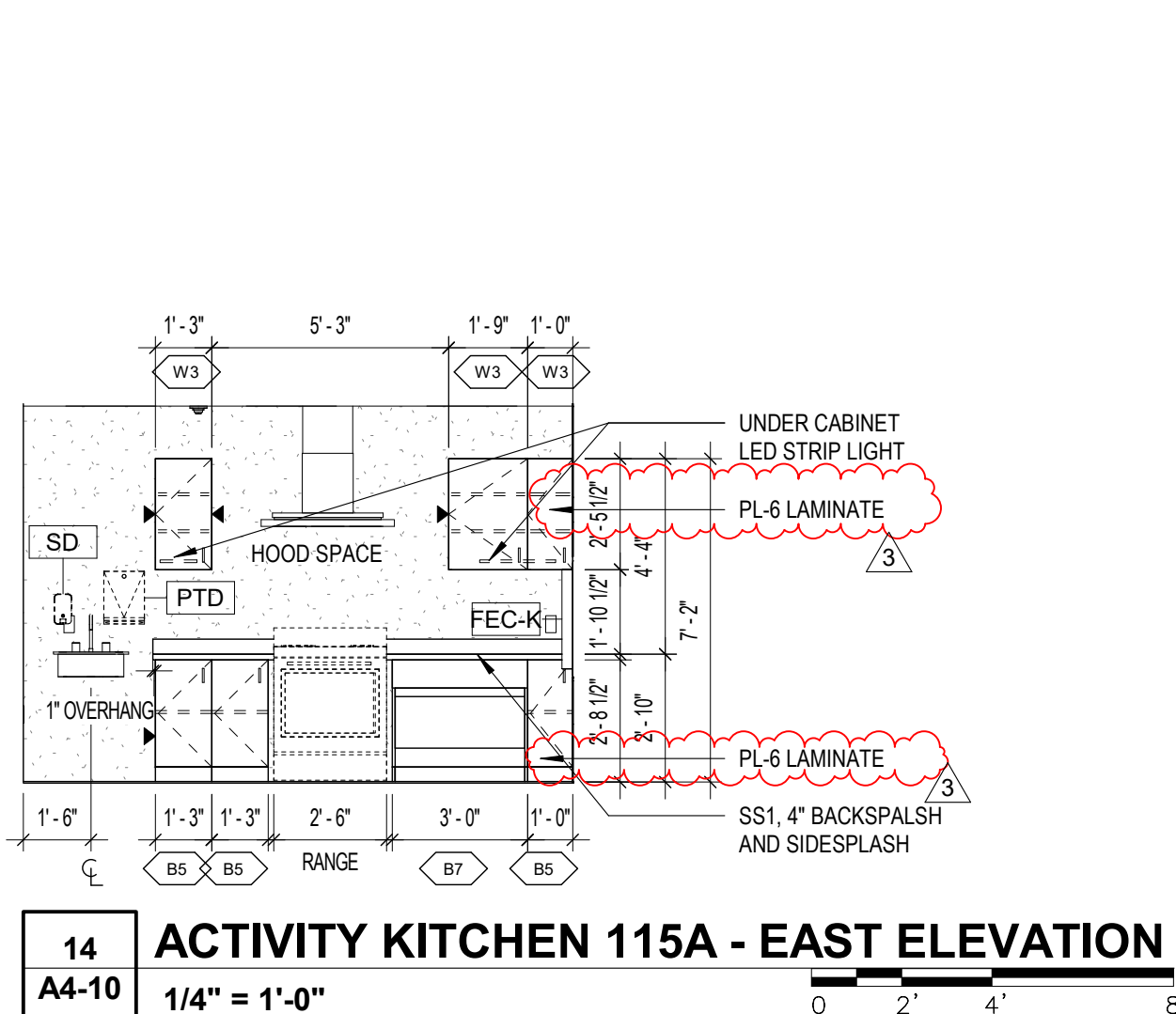
ID	DATE	DESCRIPTION
3	11/19/2024	Addendum 3

DRAWN BY: RM, FA, NB
 CHECKED BY: JEG
 ENLARGED TOILET PLANS AND ELEVATIONS

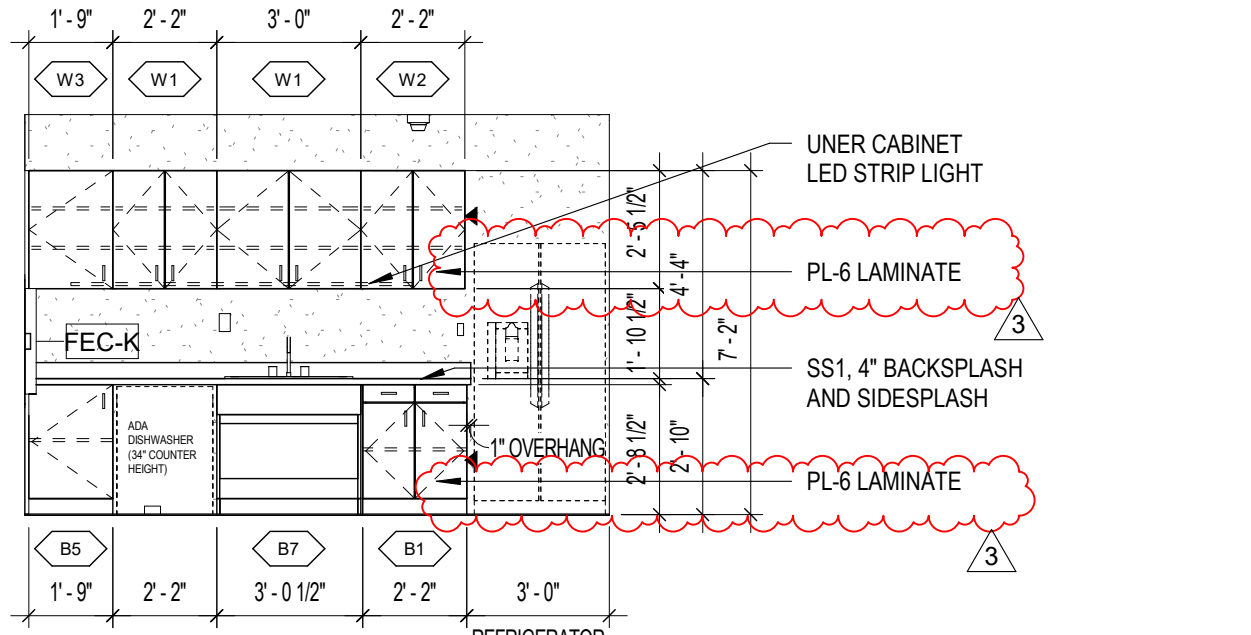
CASEWORK NOTES AND LEGEND:

MARK	DESCRIPTION
B1	2'-0" DEEP BASE CABINET, TWO HINGED DOORS AND TWO 6" HIGH DRAWERS AND ONE ADJUSTABLE SHELF. PROVIDE FIXED VERTICAL DIVIDER IN UNITS MORE THAN 3'-0" WIDE. HEIGHT/WIDTH VARIES.
B2	2'-0" DEEP BASE CABINET, TWO HINGED DOORS AND ONE ADJUSTABLE SHELF. PROVIDE FIXED VERTICAL DIVIDER IN UNITS MORE THAN 3'-0" WIDE. HEIGHT/WIDTH VARIES.
B3	2'-0" DEEP SINK BASE CABINET, TWO HINGED DOORS AND BLIND PANEL AND ONE ADJUSTABLE SHELF. PROVIDE FIXED VERTICAL DIVIDER IN UNITS MORE THAN 3'-0" WIDE. HEIGHT/WIDTH VARIES.
B4	2'-0" DEEP BASE CABINET, ONE HINGED DOOR WITH ONE ADJUSTABLE SHELF, ONE 6" HIGH DRAWER. HEIGHT/WIDTH VARIES.
B5	2'-0" DEEP BASE CABINET, ONE HINGED DOOR AND ONE ADJUSTABLE SHELF. HEIGHT/WIDTH VARIES.
B6	LAMINATED PARTICLE BOARD PANELS TO MATCH ADJACENT CASEWORK. ATTACH WITH FINISH SCREWS TO 2X2 BLOCKING. ATTACHED TO SIDE OF CASEWORK OR PROVIDE FINISHED END PANEL. CLEAR WIDTH NO LESS THAN 30 INCHES FOR ADA SINK ACCESS. SEE SECTION THROUGH ADA LAVATORY.
B7	LAMINATED PARTICLE BOARD PANELS TO MATCH ADJACENT CASEWORK. ATTACH WITH FINISH SCREWS TO 2X2 BLOCKING. ATTACHED TO SIDE OF CASEWORK OR PROVIDE FINISHED END PANEL TO FLOOR. CLEAR WIDTH NO LESS THAN 30 INCHES FOR ADA SINK ACCESS. SEE SECTION THROUGH ADA LAVATORY.
B8	2'-0" DEEP BASE CABINET, FOUR DRAWERS. HEIGHT/WIDTH VARIES.
B9	2'-0" DEEP BASE CABINET, TWO DRAWERS AND ONE LEGAL SIZE FILE DRAWER. HEIGHT/WIDTH VARIES.
B10	2'-0" DEEP BASE FILLER PANEL. HEIGHT/WIDTH VARIES.
B11	2'-0" DEEP BASE CABINET, TWO LEGAL SIZE FILE DRAWERS. HEIGHT/WIDTH VARIES.
B12	2'-0" DEEP BASE CABINET, SIX FLAT FILE DRAWERS. HEIGHT/WIDTH VARIES.
B13	2'-0" DEEP BASE CABINET, OPEN SHELVING, TWO ADJUSTABLE SHELVES. HEIGHT/WIDTH VARIES. FOR HEIGHTS OVER 4'-0" INCREASE TO THREE ADJUSTABLE SHELVES.
B14	2'-0" DEEP BASE CABINET, ONE HINGED DOOR AND ONE 6" HIGH PUSH PANEL WITH TRASH SYMBOL. PROVIDE HORIZONTAL DIVIDER WITH HOLE FOR DISPOSAL. HEIGHT/WIDTH VARIES.
B15	2'-0" DEEP BASE CABINET, ONE HINGED DOOR AND ONE 6" HIGH PUSH PANEL WITH RECYCLING SYMBOL. PROVIDE HORIZONTAL DIVIDER WITH HOLE FOR DISPOSAL. HEIGHT/WIDTH VARIES.
W1	1'-0" DEEP WALL CABINET, TWO HINGED DOORS AND TWO ADJUSTABLE SHELVES. PROVIDE FIXED VERTICAL DIVIDER IN UNITS MORE THAN 3'-0" WIDE. HEIGHT/WIDTH VARIES. FOR HEIGHTS OVER 4'-0" INCREASE TO THREE ADJUSTABLE SHELVES.
W2	1'-0" DEEP WALL CABINET, TWO HINGED DOORS AND ONE ADJUSTABLE SHELF. PROVIDE FIXED VERTICAL DIVIDER IN UNITS MORE THAN 3'-0" WIDE. HEIGHT/WIDTH VARIES.
W3	1'-0" DEEP WALL CABINET, ONE HINGED DOOR AND TWO ADJUSTABLE SHELVES. HEIGHT/WIDTH VARIES. FOR HEIGHTS OVER 4'-0" INCREASE TO THREE ADJUSTABLE SHELVES.
W4	1'-0" DEEP WALL CABINET, ONE HINGED DOOR AND ONE ADJUSTABLE SHELF. HEIGHT/WIDTH VARIES.
W5	1'-0" DEEP, OPEN SHELVING, TWO ADJUSTABLE SHELVES. HEIGHT/WIDTH VARIES. FOR HEIGHTS OVER 4'-0" INCREASE TO THREE ADJUSTABLE SHELVES.
W6	1'-0" DEEP CORNER WALL CABINET, ONE HINGED DOOR & TWO ADJUSTABLE SHELVES. HEIGHT VARIES. FOR HEIGHTS OVER 4'-0" INCREASE TO THREE ADJUSTABLE SHELVES. FOR HEIGHTS LESS THAN 2'-0" REDUCE TO ONE ADJUSTABLE SHELF.
T1	2'-0" DEEP, 7'-0" TALL STORAGE CABINET, TWO HINGED DOORS WITH FIVE ADJUSTABLE SHELVES. PROVIDE FIXED VERTICAL DIVIDER IN UNITS MORE THAN 3'-0" WIDE. WIDTH VARIES.
T2	1'-0" DEEP, 7'-0" TALL STORAGE CABINET, TWO HINGED DOORS WITH ELEVEN ADJUSTABLE SHELVES. PROVIDE FIXED VERTICAL DIVIDER IN UNITS MORE THAN 3'-0" WIDE. WIDTH VARIES.
T3	2'-0" DEEP, 7'-0" TALL STORAGE CABINET, ONE HINGED DOOR WITH FIVE ADJUSTABLE SHELVES. WIDTH VARIES.
T4	1'-0" DEEP, 7'-0" TALL STORAGE CABINET, OPEN WITH FIVE ADJUSTABLE SHELVES. PROVIDE FIXED VERTICAL DIVIDER IN UNITS MORE THAN 3'-0" WIDE. WIDTH VARIES.
T5	2'-0" DEEP, 7'-0" TALL STORAGE CABINET, OPEN WITH ELEVEN ADJUSTABLE SHELVES. PROVIDE FIXED VERTICAL DIVIDER IN UNITS MORE THAN 3'-0" WIDE. WIDTH VARIES.
T6	2'-0" DEEP, 7'-0" TALL LAPTOP STORAGE CABINET, TWO HINGED DOORS WITH ONE FIXED SHELF AT 4'-6" AFF AND ONE ADJUSTABLE SHELF. NO BASE TRIM AT FRONT FOR STORAGE OF MOBILE LAPTOP CHARGING CART. VERIFY SIZE OF SELECTED CHARGING CART PRIOR TO FABRICATION TO ENSURE FIT.
T7	2'-0" DEEP TEACHER WARDROBE, TWO HINGED DOORS AND FULL HEIGHT VERTICAL DIVIDER 14" OC LEFT, ONE FIXED SHELF EACH SIDE, CLOSET ROD IN LEFT SIDE, FIVE 12 3/4" WIDE ADJUSTABLE SHELVES IN THE RIGHT SIDE, TWO LEGAL SIZE 15" FILE DRAWERS WITH FULL EXTENSION SLIDE AND FILE FOLLOWERS, 10"X10" MIRROR AND PIN TRAY INSIDE DOOR. INCLUDE DOOR LOCK, WIDTH VARIES.
INDICATES FINISHED END	

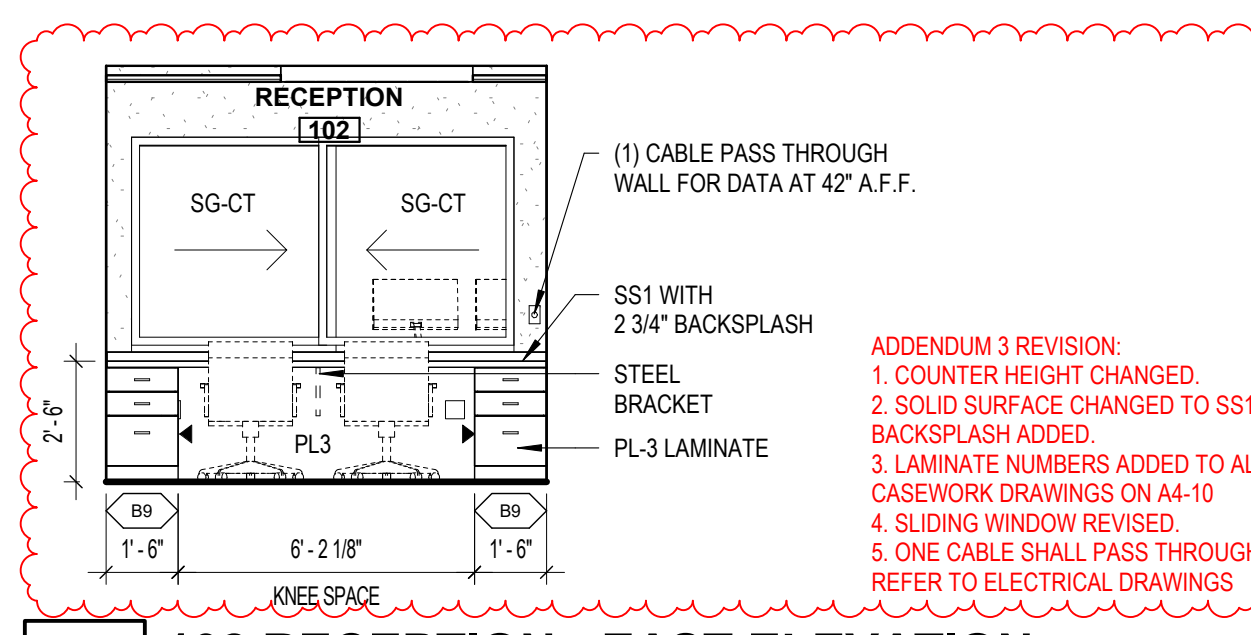
1. ALL CASEWORK SHOWN IS MANUFACTURED PLASTIC LAMINATE CASEWORK, TYPICAL UNLESS NOTED OTHERWISE.



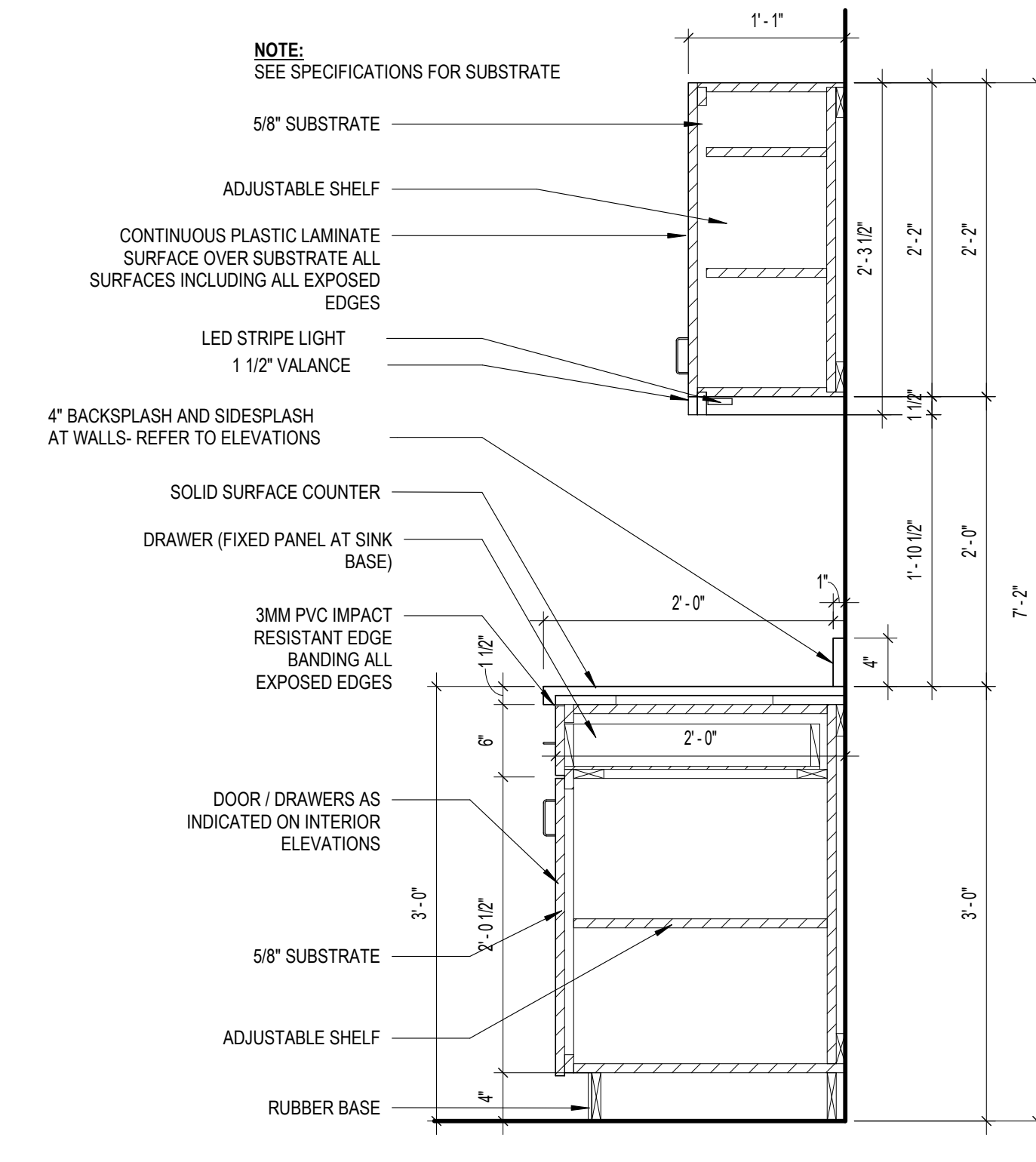
14 ACTIVITY KITCHEN 115A - EAST ELEVATION
1/4" = 1'-0"



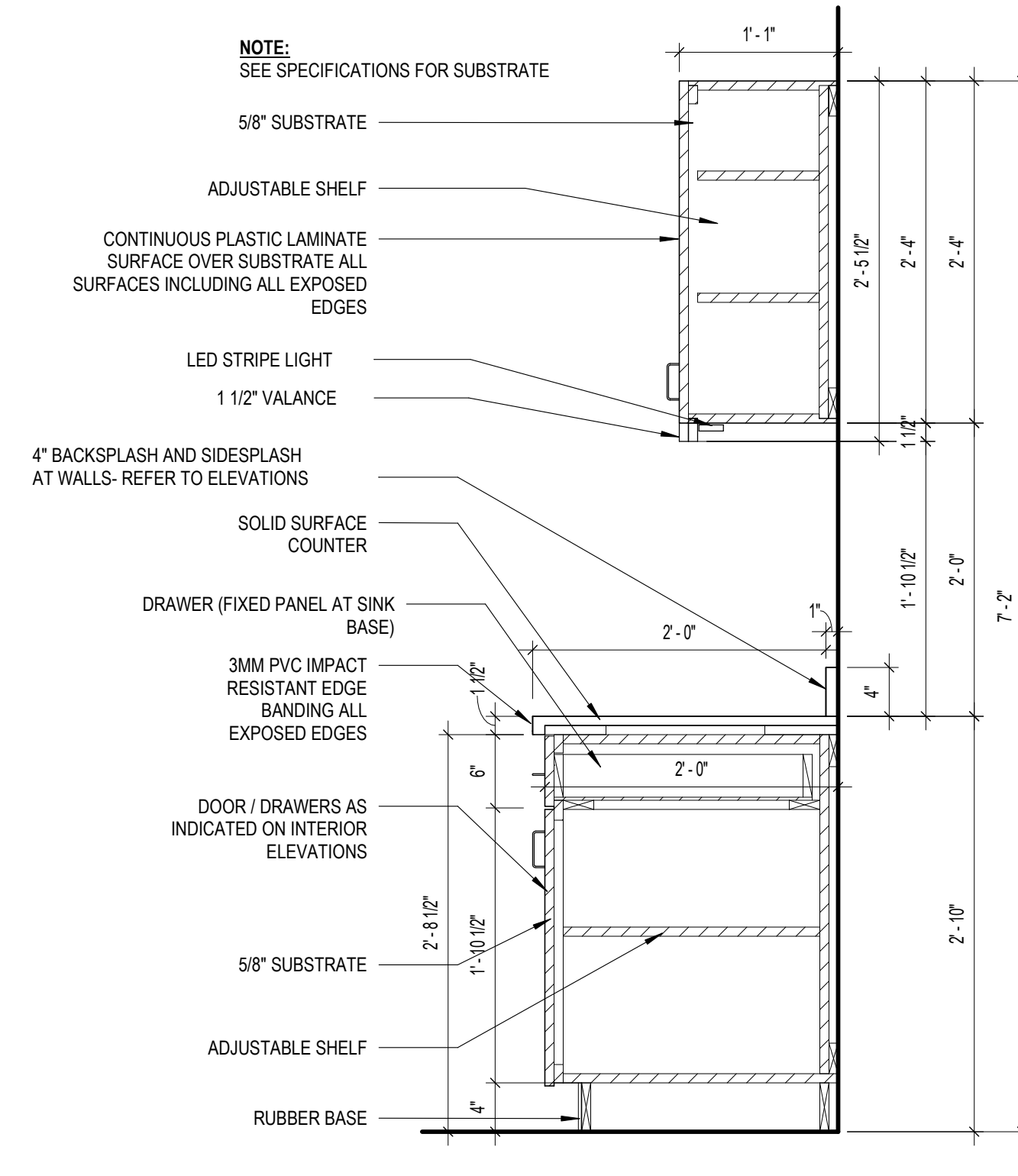
13 ACTIVITY KITCHEN 115A - WEST ELEVATION
1/4" = 1'-0"



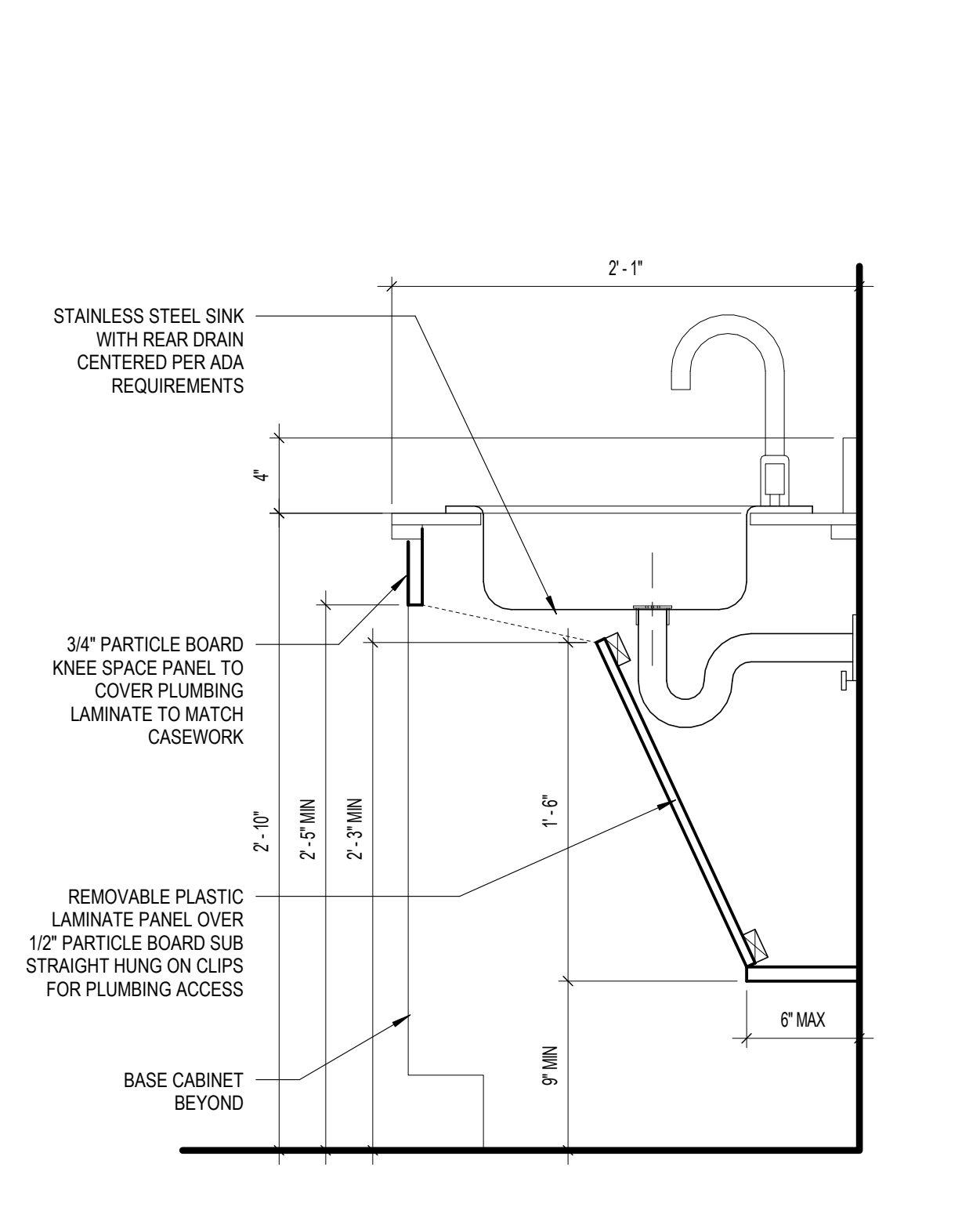
10 102 RECEPTION - EAST ELEVATION
1/4" = 1'-0"



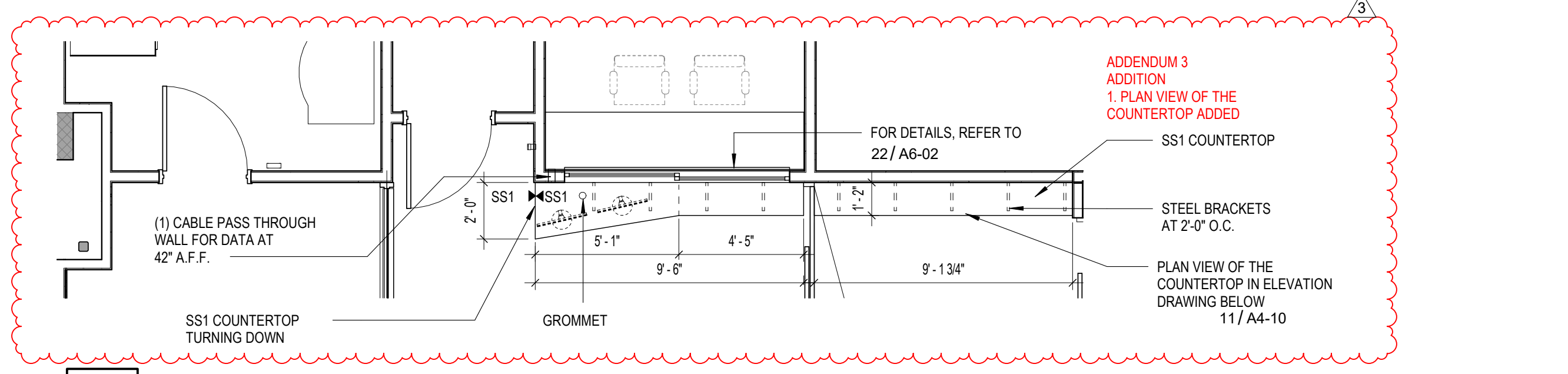
17 TYPICAL CASEWORK DETAIL
1" = 1'-0"



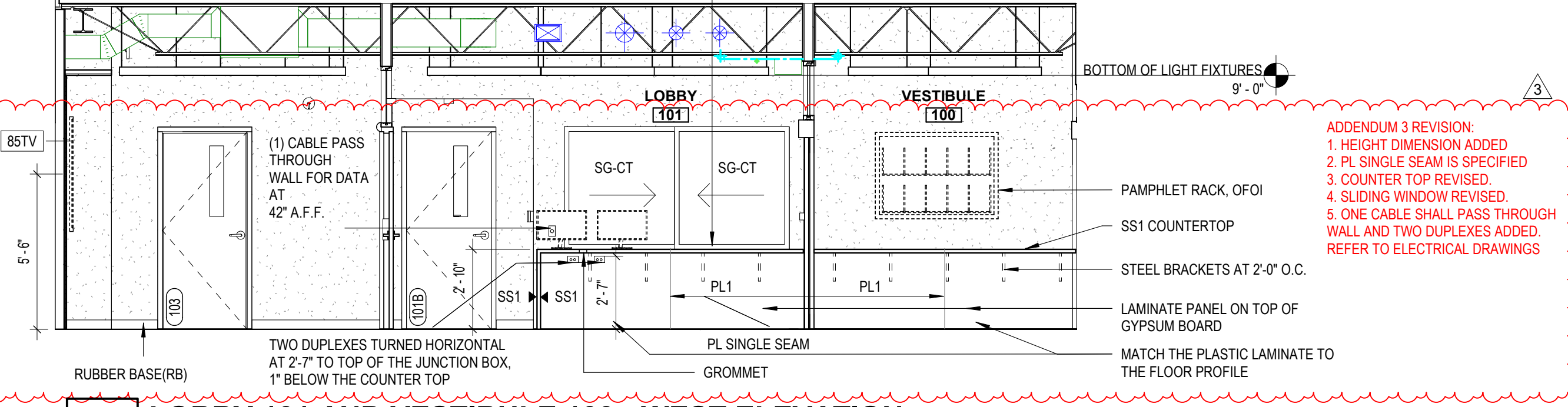
18 TYPICAL ADA CASEWORK DETAIL
1" = 1'-0"



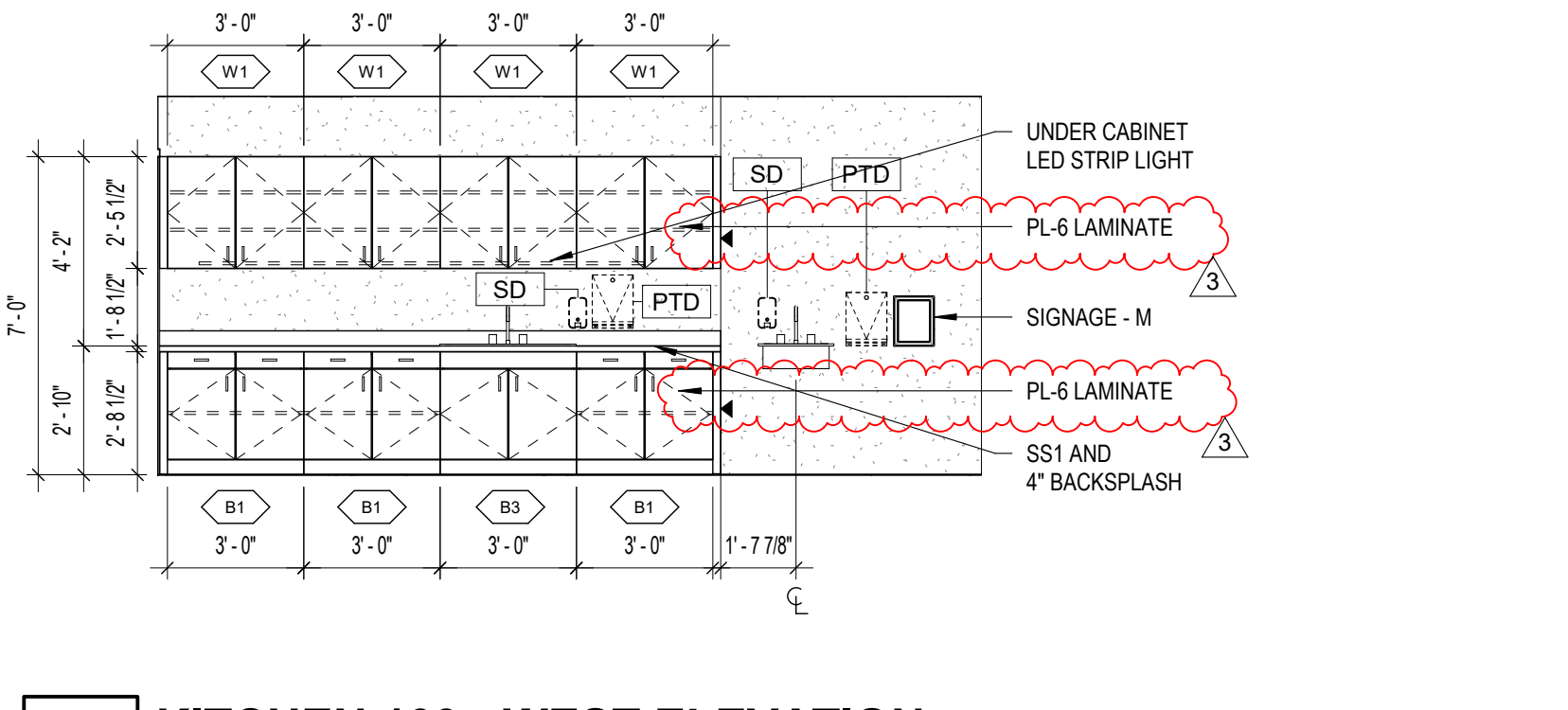
19 SECTION THROUGH ADA LAVATORY
1 1/2" = 1'-0"



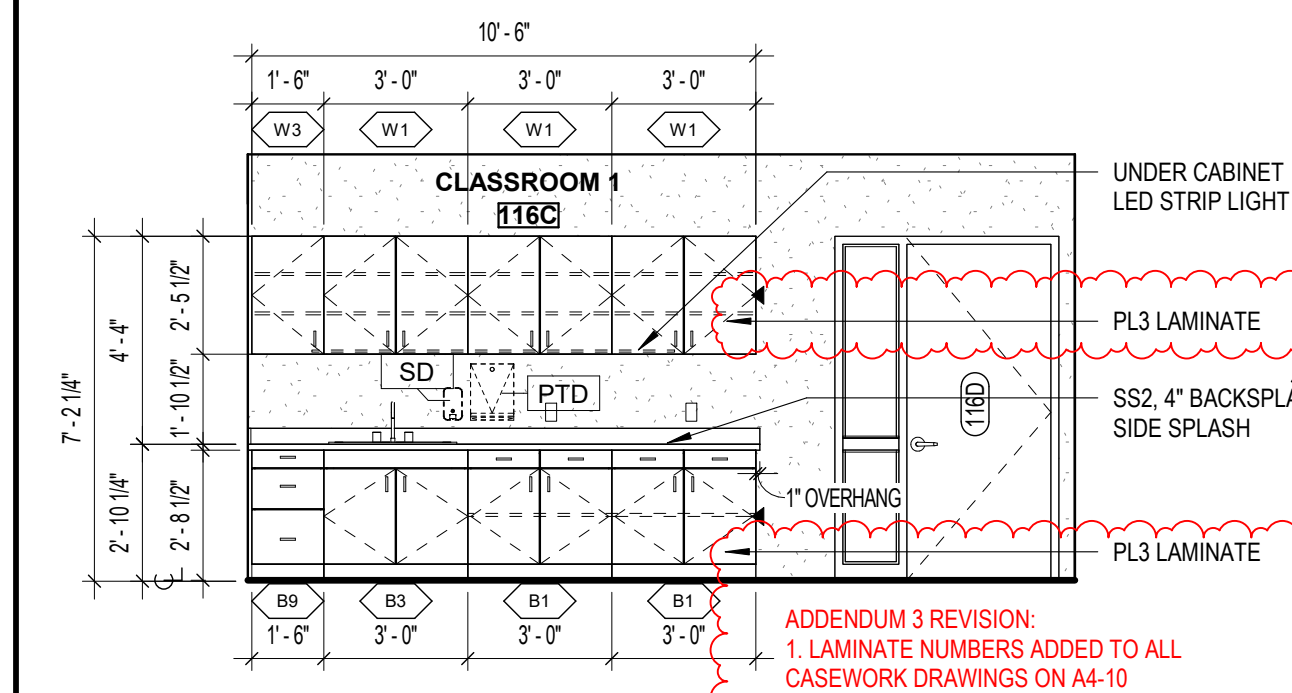
15 LOBBY 101 COUNTERTOP PLAN
1/4" = 1'-0"



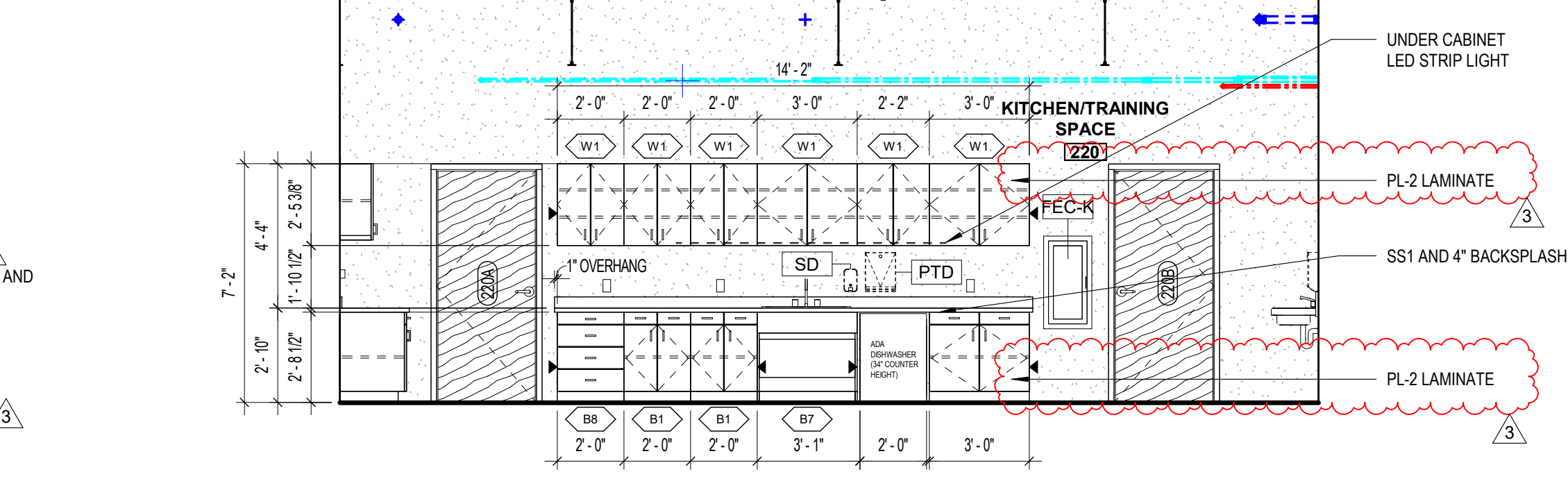
11 LOBBY 101 AND VESTIBULE 100 - WEST ELEVATION
1/4" = 1'-0"



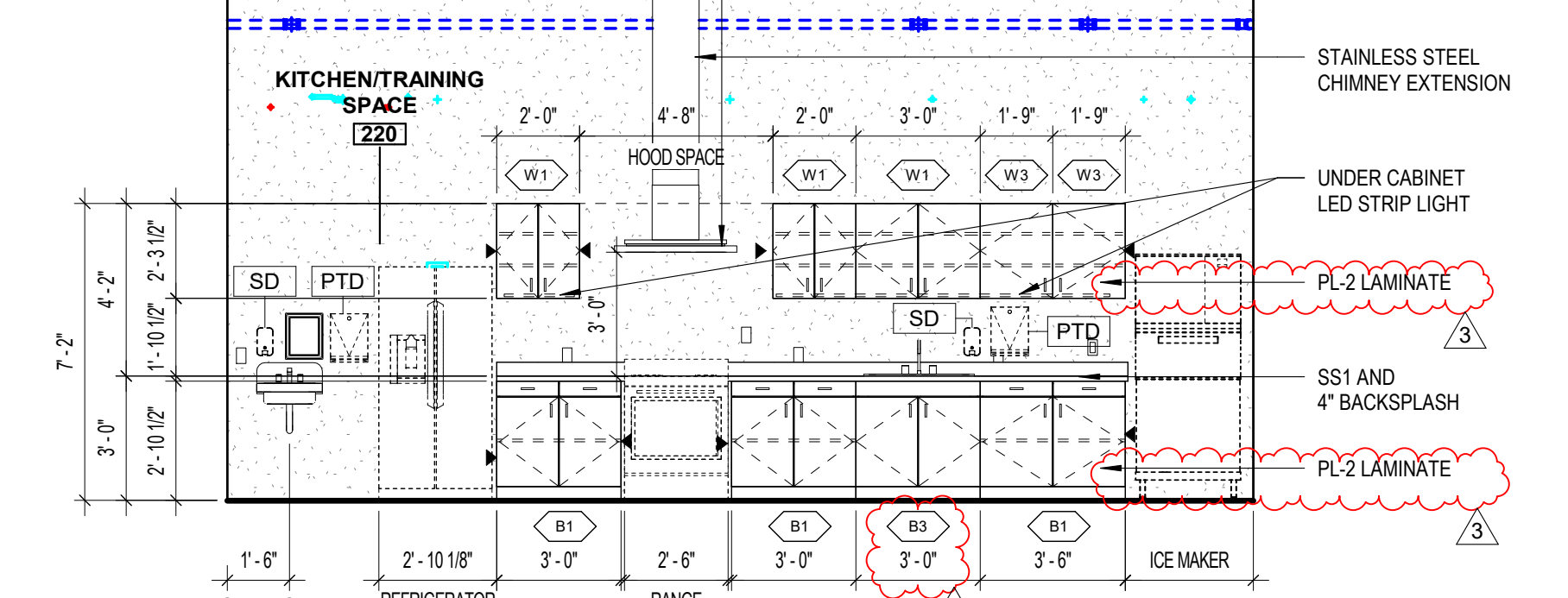
12 KITCHEN 109 - WEST ELEVATION
1/4" = 1'-0"



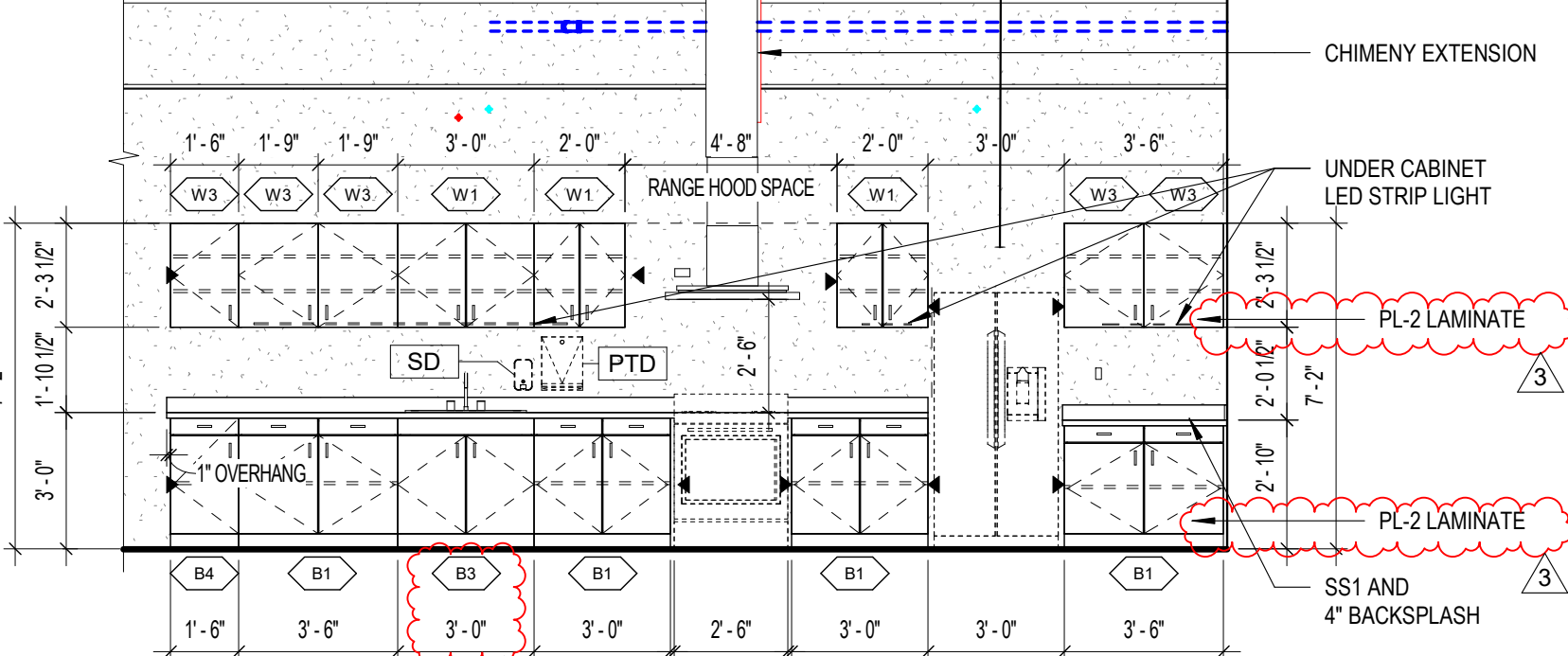
6 116 C CLASSROOM 1 - N
1/4" = 1'-0"



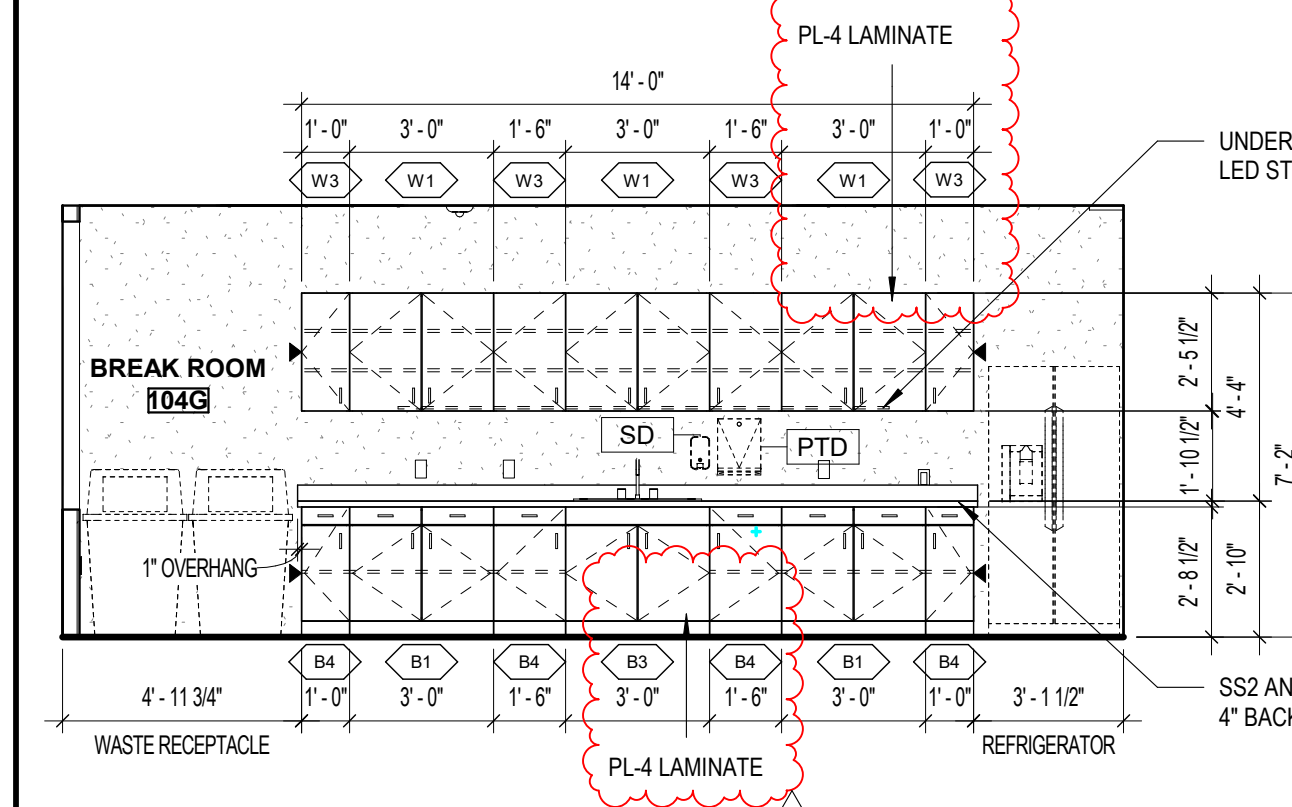
7 KITCHEN TRAINING SPACE 220 - NORTH ELEVATION
1/4" = 1'-0"



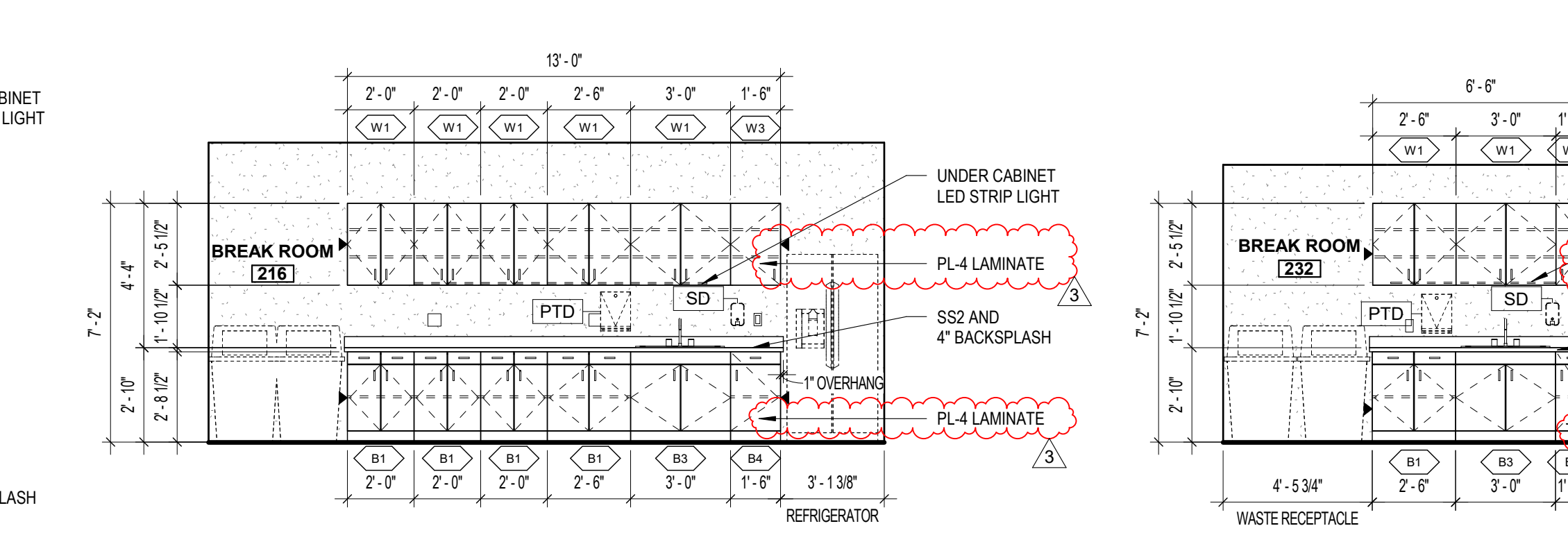
8 KITCHEN TRAINING SPACE 220 - EAST ELEVATION
1/4" = 1'-0"



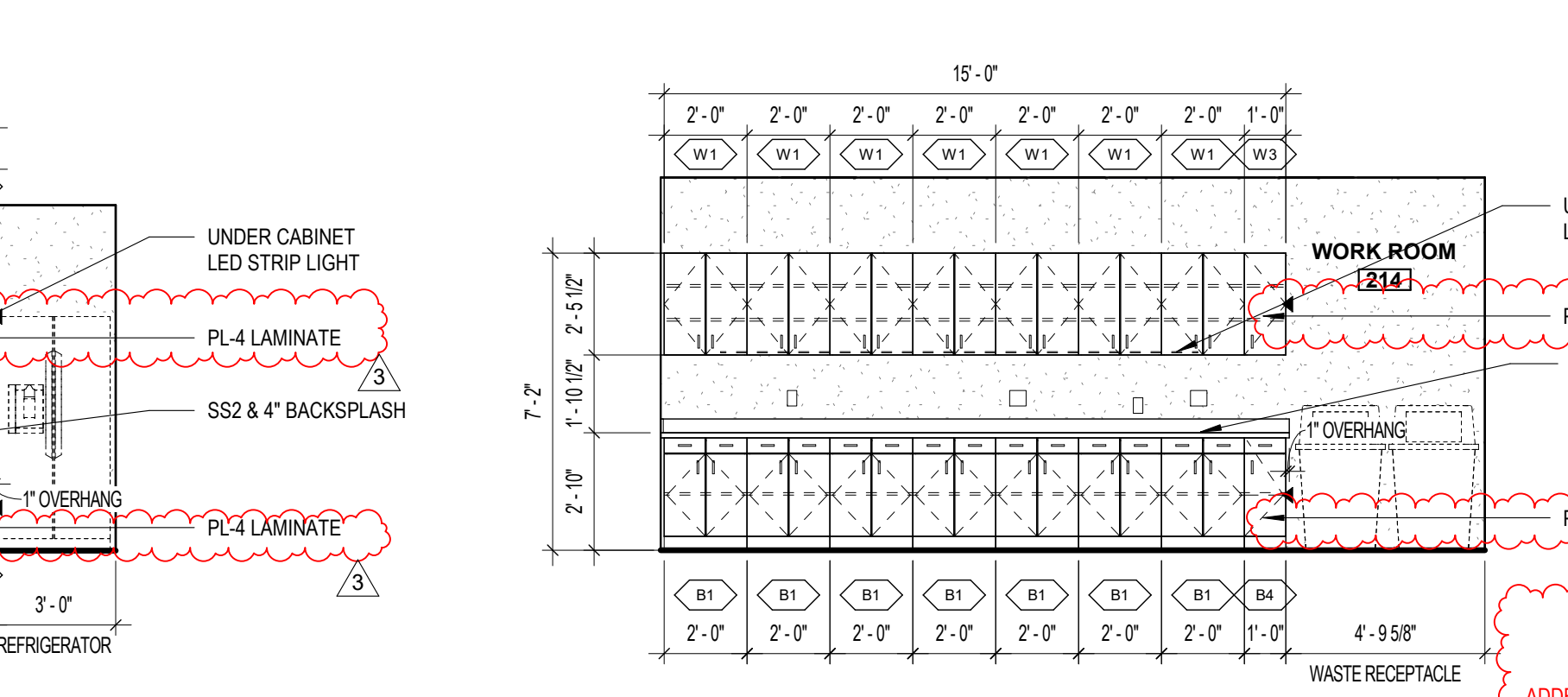
9 KITCHEN TRAINING SPACE 220 - WEST ELEVATION
1/4" = 1'-0"



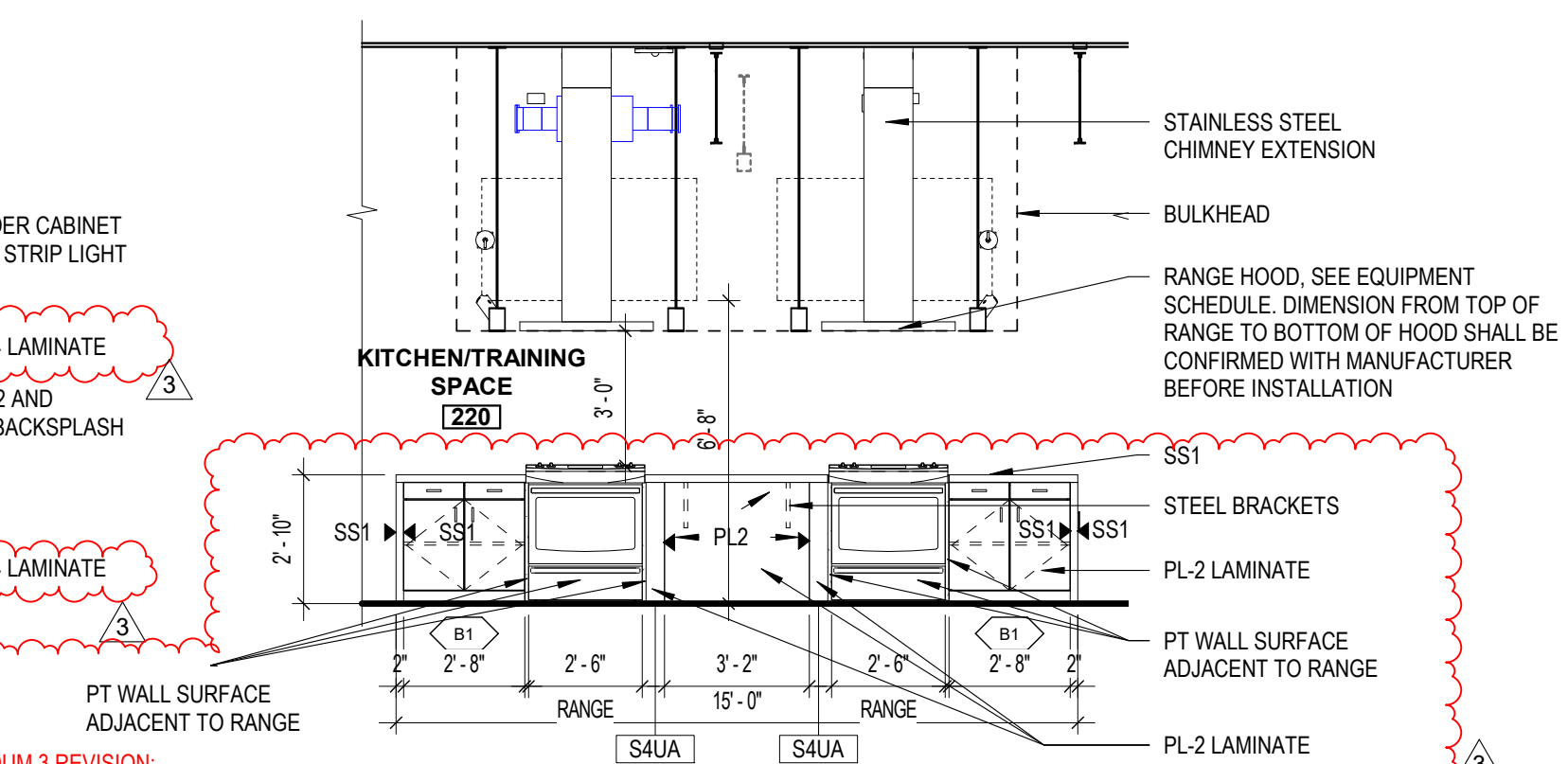
1 BREAK ROOM 104G - SOUTH ELEVATION
1/4" = 1'-0"



2 BREAK ROOM 216 - SOUTH ELEVATION
1/4" = 1'-0"



3 BREAK ROOM 232 - EAST ELEVATION
1/4" = 1'-0"



4 WORK ROOM 214 - SOUTH ELEVATION
1/4" = 1'-0"

smith sinnett ARCHITECTURE
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9585
LICENSED ARCHITECT
STATE OF NORTH CAROLINA
11/11/2024

BID DOCUMENTS

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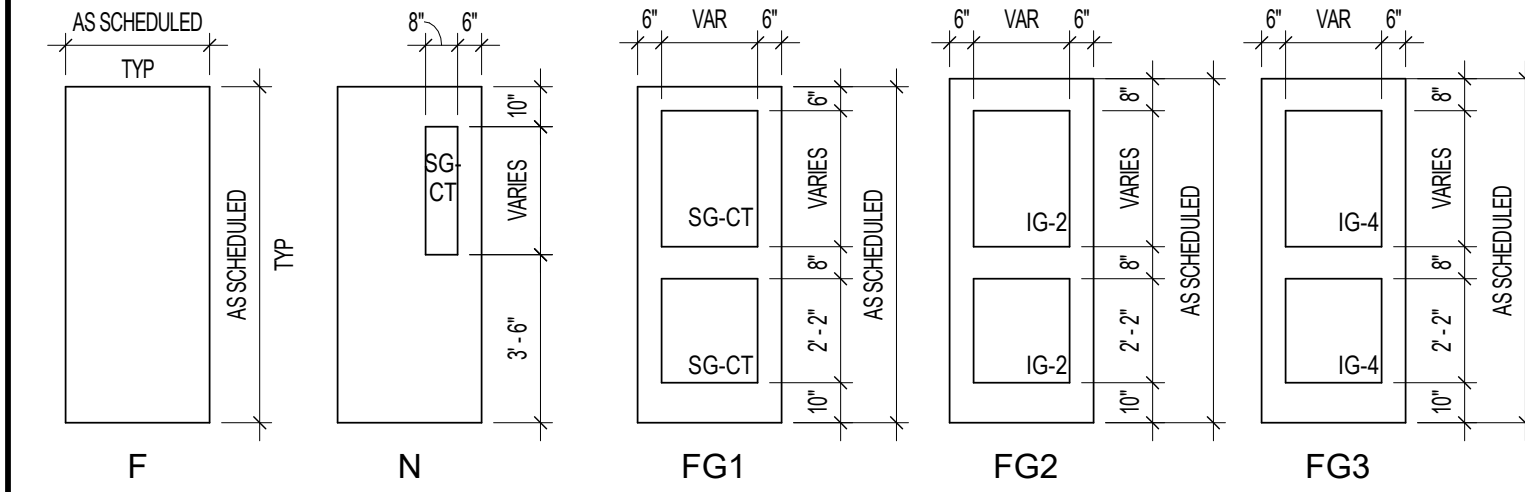
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Onslow County Senior Services Center
Renovation
Onslow County Government
4024 Richlands Hwy, Jacksonville, NC 28540

ID	DATE	DESCRIPTION
3	11/19/2024	Addendum 3

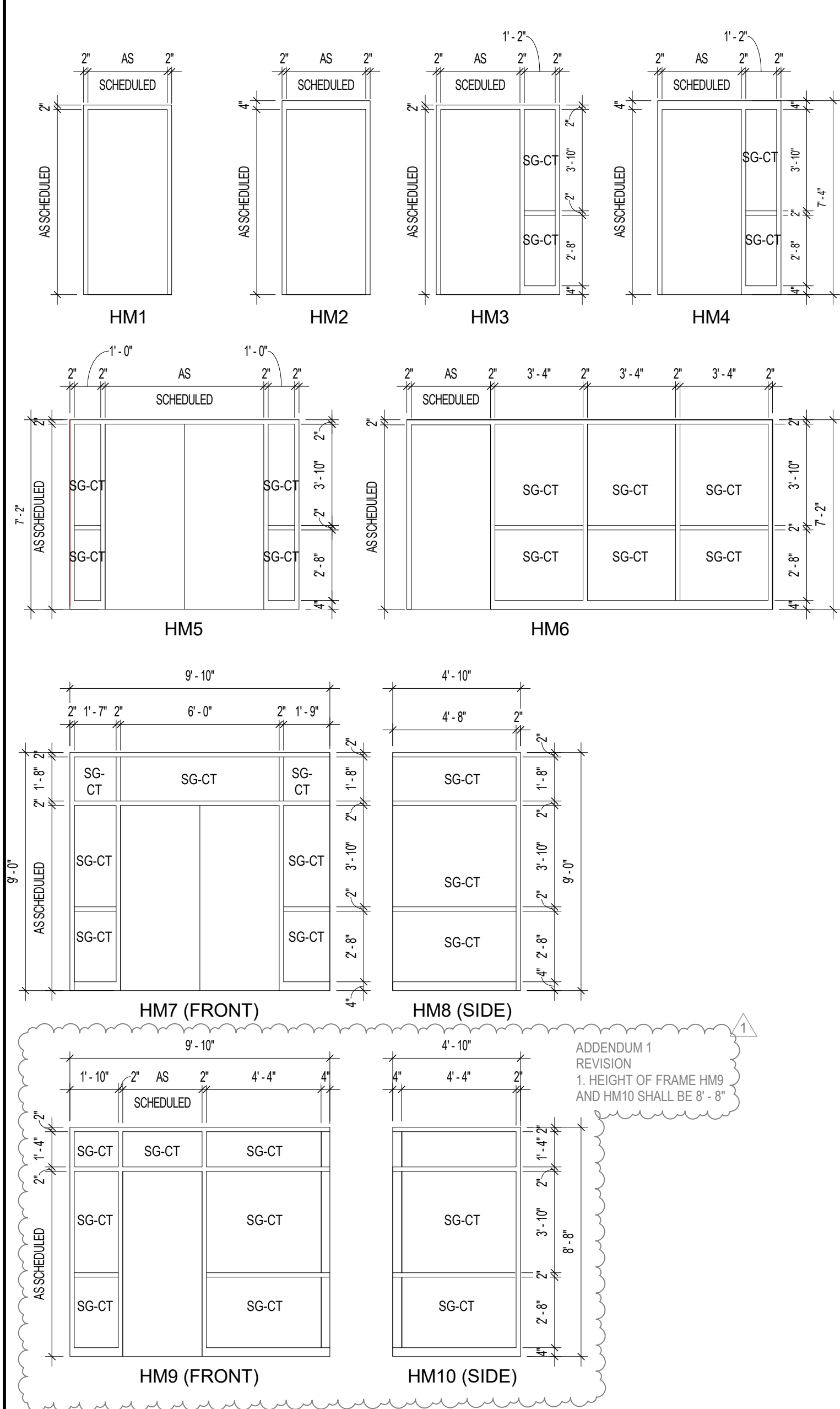
DRAWN BY: RM, FA, NB
CHECKED BY: JEG
CASEWORK ELEVATIONS AND DETAILS

LEGEND:	
HM	HM FRAME DESIGNATION
AL	ALUMINUM WINDOW FRAME
N	INTERIOR ALUM. STOREFRONT
S	EXTERIOR ALUM. STOREFRONT
GLAZING:	
IG: INSULATED GLASS	
IG-1	LOW-E TINTED
IG-2	LOW-E TINTED TEMPERED
IG-3	LOW-E TINTED SPANDREL
IG-4	CLEAR TEMPERED
SG-CT: SAFETY GLASS - CLEAR TEMPERED	

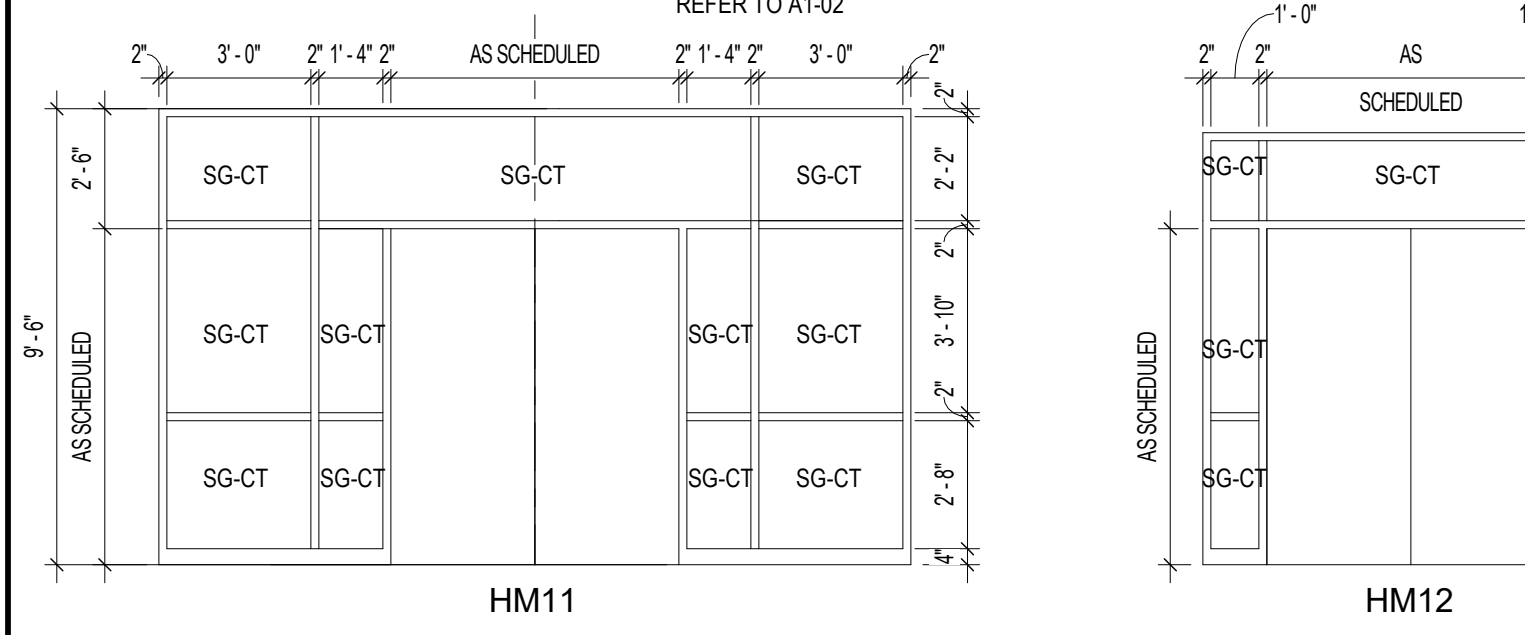


DOOR TYPES

1/4" = 1'-0"



CENTERLINE OF DOOR SHALL ALIGN WITH CENTERLINE OF ALCOVE REFER TO A1-02



FRAME TYPES

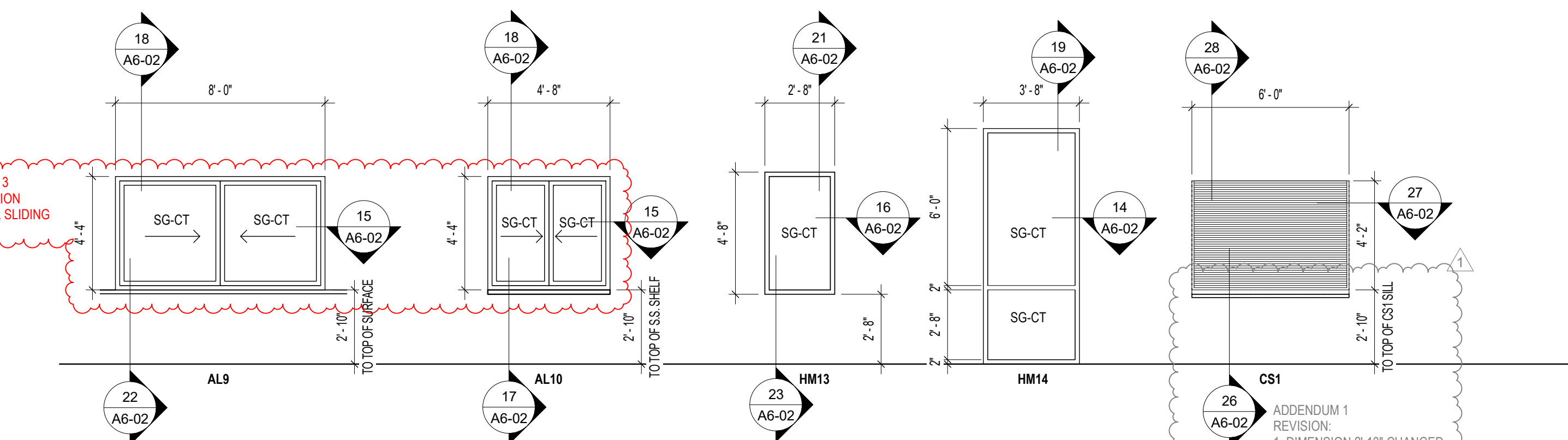
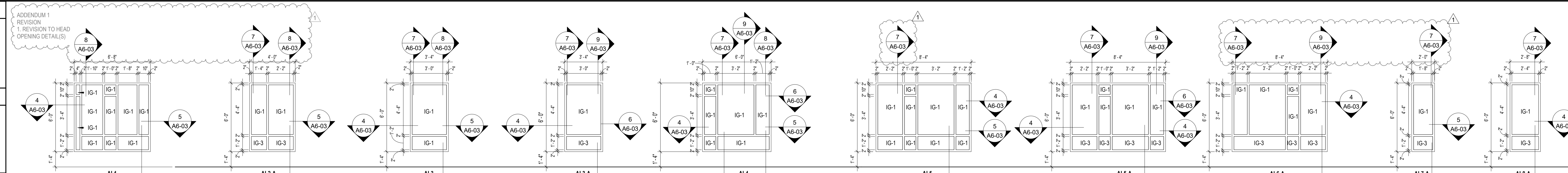
1/4" = 1'-0"



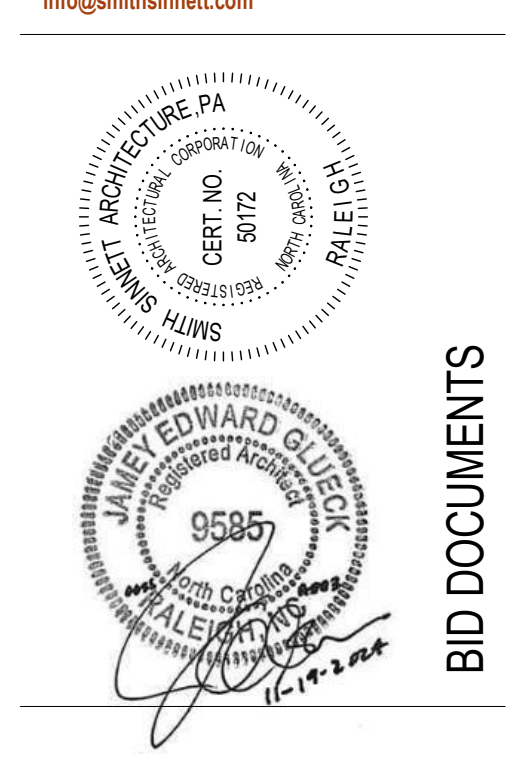
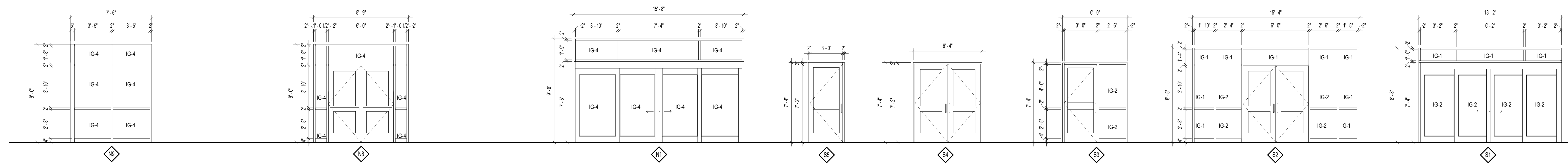
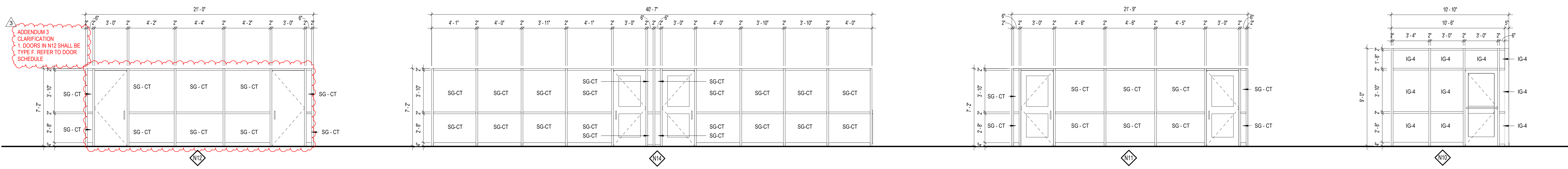
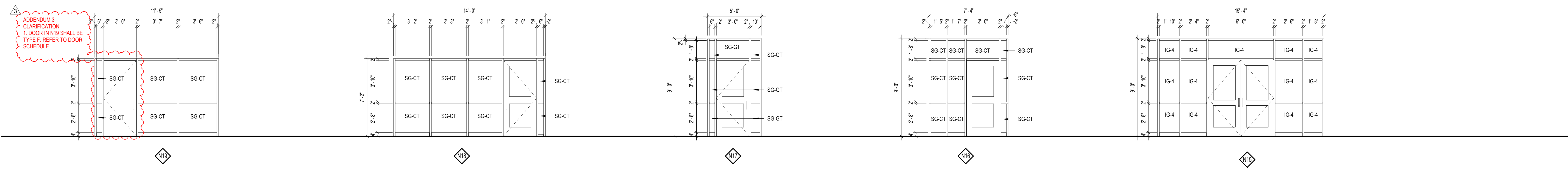
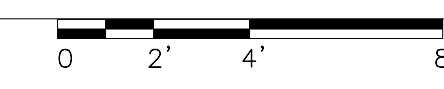
ADDITIONUM 3 REVISION 1. DOOR 104E FRAME SHALL BE AN ALUMINUM FRAME 2. DOOR 104F FRAME SHALL BE AN ALUMINUM FRAME

DOOR	DOOR SIZE		THK	FRAME				DETAILS			HARDWARE	REMARKS		
	MARK	WIDTH		HEIGHT	MAT	TYPE	LVS	MAT	TYPE	HEAD			JAMB	THRESH
EXTERIOR 100	100	6'-0"	7'-0"	1 3/4"	ALUM	FG2	2	S1	ALUM	6AS-01	6AS-02	T13	02	PANIC HARDWARE, AUTOMATIC ENTRANCE
INTERIOR 101A	101A	6'-0"	7'-0"	1 3/4"	ALUM	FG3	2	N1	ALUM	H2	T6	T6	02	PANIC HARDWARE, AUTOMATIC ENTRANCE
INTERIOR 101B	101B	6'-0"	7'-0"	1 3/4"	HM	FG1	2	HM	HM11	H1	J1		41	REMOVABLE CENTER MULLION DOOR RELEASE SWITCH AT RECEPTION 102, ELECTRIFIED PANIC HARDWARE, CLOSER, OVERHEAD STOP, HOLD OPEN, INTERIOR CARD READER
INTERIOR 102A	102A	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1		07	OVERHEAD STOP
INTERIOR 102B	102B	3'-0"	7'-0"	1 3/4"	WD	N	1	HM	HM1	H1	J1	T7	37	PANIC HARDWARE, CLOSER, INTERIOR CARD READER
INTERIOR 102B	102B	3'-0"	7'-0"	1 3/4"	WD	N	1	HM	HM1	H1	J1	T7	30	PANIC HARDWARE, CLOSER
INTERIOR 103	103	3'-0"	7'-0"	1 3/4"	WD	N	1	HM	HM1	H1	J1	T7	07	OVERHEAD STOP
INTERIOR 104	104	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1	T6	32	INTERIOR CARD READER (OFOI), CLOSER
INTERIOR 104A	104A	3'-0"	7'-0"	1 3/4"	WD	N	1	HM	HM1	H1	J1		04	
INTERIOR 104B	104B	3'-0"	7'-0"	1 3/4"	WD	N	1	HM	HM1	H1	J1		04	
INTERIOR 104C	104C	3'-0"	7'-0"	1 3/4"	WD	N	1	HM	HM1	H1	J1		10	
INTERIOR 104D	104D	3'-0"	7'-0"	1 3/4"	WD	N	1	HM	HM1	H1	J1		04	
INTERIOR 104E	104E	3'-0"	7'-0"	1 3/4"	WD	F	1	ALUM	N12	H2	J2		03	CONTINUOUS HINGE, OVERHEAD STOP
INTERIOR 104F	104F	3'-0"	7'-0"	1 3/4"	WD	F	1	ALUM	N12	H2	J2		03	CONTINUOUS HINGE, OVERHEAD STOP
INTERIOR 104H	104H	3'-0"	7'-0"	1 3/4"	ALUM	FG1	1	ALUM	N11	H2	J2	T1	03	CONTINUOUS HINGE, HOLD OPEN, CLOSER
INTERIOR 104I	104I	3'-0"	7'-0"	1 3/4"	ALUM	FG1	1	ALUM	N11	H2	J2	T1	03	CONTINUOUS HINGE, HOLD OPEN, CLOSER
INTERIOR 104J	104J	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1	T8	18	OCCUPANCY LATCH
INTERIOR 104K	104K	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1	T8	18	OCCUPANCY LATCH
INTERIOR 104L	104L	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1		11	OVERHEAD STOP
EXTERIOR 104M	104M	3'-0"	7'-2"	1 3/4"	ALUM	FG2	1	ALUM	SS	H8	J8	T13	38	ADMINISTRATION EXTERIOR DOOR, EXTERIOR CARD READER (OFOI), CONTINUOUS HINGE, FROSTED GLAZING
INTERIOR 104N	104N	3'-0"	7'-0"	1 3/4"	WD	N	1	HM	HM1	H1	J1		30	CLOSER, HOLD OPEN
INTERIOR 106A	106A	3'-0"	7'-0"	1 3/4"	HM	FG1	1	HM	HM4	H3	J3	T6	33	CLOSER
EXTERIOR 106B	106B	3'-0"	7'-2"	1 3/4"	ALUM	FG2	1	ALUM	SS	H8	J8	T13	38	CONGREGATE DINING EXTERIOR DOOR, PANIC HARDWARE, EXTERIOR CARD READER (OFOI), CONTINUOUS HINGE, CLOSER
INTERIOR 106C	106C	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM4	H3	J3	T9	04	OVERHEAD STOP
INTERIOR 106D	106D	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM4	H3	J3	T6	05	OVERHEAD STOP
INTERIOR 106E	106E	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1		04	
INTERIOR 106F	106F	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM4	H3	J3	T6	05	
INTERIOR 106G	106G	6'-0"	7'-0"	1 3/4"	HM	FG1	2	HM	HM1	H1	J1		28	PANIC HARDWARE, CLOSER, HOLD OPEN
INTERIOR 106H	106H	6'-0"	7'-0"	1 3/4"	HM	FG1	2	HM	HM1	H1	J1		04	PANIC HARDWARE, CLOSER, HOLD OPEN
EXTERIOR 106I	106I	3'-0"	7'-2"	1 3/4"	ALUM	FG2	1	ALUM	SS	H7	J7	T13	23	CONGREGATE DINING EXTERIOR DOOR, CONTINUOUS HINGE, CLOSER, NO PULL
INTERIOR 107	107	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1	T7	14	MECHANICAL ROOM
INTERIOR 108	108	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1	T7	10	COMMUNICATIONS
INTERIOR 109	109	3'-0"	7'-0"	1 3/4"	WD	N	1	HM	HM1	H1	J1	T9	09	CLOSER, HOLD OPEN
INTERIOR 109A	109A	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1	T9	04	IF ALTERNATE 6A IS ACCEPTED, THIS DOOR TO HAVE T6 THRESHOLD
INTERIOR 110	110	6'-0"	7'-0"	1 3/4"	WD	F	2	HM	HM1	H1	J1	T7	16	OVERHEAD STOP
INTERIOR 111	111	6'-0"	7'-0"	1 3/4"	WD	F	2	HM	HM1	H1	J1	T7	16	OVERHEAD STOP
INTERIOR 112	112	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1	T7	14	MECHANICAL
INTERIOR 113	113	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1	T7	32	INTERIOR CARD READER (OFOI), CLOSER, IF ALTERNATE 6A IS ACCEPTED, THIS DOOR TO HAVE NO THRESHOLD
INTERIOR 113A	113A	3'-0"	7'-0"	1 3/4"	WD	N	1	HM	HM1	H1	J1	T1	04	IF ALTERNATE 6A IS ACCEPTED, THIS DOOR TO HAVE T6 THRESHOLD
INTERIOR 113B	113B	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1	T3	10	IF ALTERNATE 6A IS ACCEPTED, THIS DOOR TO HAVE T9 THRESHOLD
INTERIOR 113C	113C	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1	T3	18	OCCUPANCY LATCH, IF ALTERNATE 6A IS ACCEPTED, THIS DOOR TO HAVE T9 THRESHOLD
INTERIOR 113D	113D	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1		08	IF ALTERNATE 6A IS ACCEPTED, THIS DOOR TO HAVE T7 THRESHOLD
INTERIOR 113E	113E	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1		11	OVERHEAD STOP, IF ALTERNATE 6A IS ACCEPTED, THIS DOOR TO HAVE T7 THRESHOLD
INTERIOR 113F	113F	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM4	H3	J3		31	INTERIOR CARD READER (OFOI), SIZE OF OPENING SHALL BE VERIFIED IN FIELD, IF ALTERNATE 6A IS ACCEPTED, THIS DOOR TO HAVE NO THRESHOLD
INTERIOR 114	114	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1	T7	10	
EXTERIOR 115A	115A	3'-0"	7'-2"	1 3/4"	ALUM	FG2	1	ALUM	S3	H8	J8	T13	39	EXTERIOR CARD READER (OFOI) CONTINUOUS HINGE, AUTO OPERATOR, SIZE OF OPENING SHALL BE VERIFIED IN FIELD
EXTERIOR 115B	115B	3'-0"	7'-2"	1 3/4"	ALUM	FG2	1	ALUM	S3	H8	J8	T13	23	CONTINUOUS HINGE, NO EXTERIOR PULL, SIZE OF OPENING SHALL BE VERIFIED IN FIELD
INTERIOR 115C	115C	3'-0"	7'-2"	1 3/4"	ALUM	FG3	1	ALUM	N10	H2	J2	T1	34	CONTINUOUS HINGE, AUTO OPERATOR, INSULATED CLEAR TEMPERED GLASS, IF ALTERNATE 6A IS ACCEPTED, THIS DOOR TO HAVE T6 THRESHOLD
INTERIOR 115E	115E	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM2	H3	J3	T3	30	PUSH PLATES, PULL, NO LATCH
INTERIOR 115F	115F	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM2	H3	J3	T3	30	
INTERIOR 116A	116A	6'-0"	7'-0"	1 3/4"	HM	FG1	2	HM	HM12	H1	J1		29	PANIC HARDWARE, HOLD OPEN, CLOSER
INTERIOR 116B	116B	6'-0"	7'-0"	1 3/4"	HM	FG1	2	HM	HM12	H1	J1		29	PANIC HARDWARE, HOLD OPEN, CLOSER
INTERIOR 116C	116C	6'-0"	7'-0"	1 3/4"	WD	F	2	HM	HM1	H1	J1	T7	16	OVERHEAD STOP
INTERIOR 116D	116D	6'-0"	7'-0"	1 3/4"	HM	F	1	HM	HM3	H1	J1	T7	08	
INTERIOR 116E	116E	6'-0"	7'-0"	1 3/4"	HM	FG1	2	HM	HM12	H1	J1		29	PANIC HARDWARE, HOLD OPEN, CLOSER
INTERIOR 116F	116F	6'-0"	7'-0"	1 3/4"	HM	FG1	2	HM	HM7	H1	J1		29	PANIC HARDWARE, HOLD OPEN, CLOSER
INTERIOR 116G	116G	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM3	H1	J1	T7	08	
INTERIOR 116H	116H	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1	T7	10	
INTERIOR 117	117	6'-0"	7'-0"	1 3/4"	WD	F	2	HM	HM1	H1	J1	T7	15	SIZE OF OPENING SHALL BE VERIFIED IN FIELD
INTERIOR 118A	118A	6'-0"	7'-0"	1 3/4"	WD	FG10	2	HM	HM2	H3	J3	T4	22	OVERHEAD STOP
INTERIOR 118B	118B	3'-0"	7'-0"	1 3/4"	HM	FG1	1	HM	HM9	H3	J3	T4	19	OVERHEAD STOP
EXTERIOR 119	119	3'-0"	7'-0"	1 3/4"	HM	F	1	HM	HM2	H4	J4	T13	26	ELECTRICAL ROOM, PANIC HARDWARE, CLOSER
INTERIOR 120	120	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1	T7	20	COMMUNICATIONS
INTERIOR 121	121	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM3	H1	J1	T7	08	
INTERIOR 122	122	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM3	H1	J1	T7	08	
INTERIOR 123	123	3'-0"	7'-0"	1 3/4"	HM	F	1	HM	HM1	H1	J1	T9	13	
INTERIOR 126	126	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1	T9	13	
INTERIOR 127	127	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1	T6	05	
INTERIOR 128	128	3'-0"	7'-0"	1 3/4"	HM	FG1	1	HM	HM6	H1	J1	T7	06	IF ALTERNATE 6A IS ACCEPTED, THIS DOOR DOES NOT HAVE THRESHOLD
EXTERIOR 129A	129A	6'-0"	7'-2"	1 3/4"	ALUM	FG2	2	ALUM	S4	H8	J8	T13	27	PANIC HARDWARE, CONTINUOUS HINGE, CLOSER, KEYS REMOVABLE MULLION, WEATHER STRIP, RAIN DRIP
INTERIOR 129B	129B	6'-0"	7'-0"	1 3/4"	ALUM	FG3	2	ALUM	N8	H2	J2	T6	35	CONTINUOUS HINGE, CLOSER, WEATHER STRIP
EXTERIOR 130A	130A	6'-0"	7'-2"	1 3/4"	ALUM	FG2	2	ALUM	S4	H7	J7	T13	27	PANIC HARDWARE, CONTINUOUS HINGE, CLOSER, KEYS REMOVABLE MULLION, WEATHER STRIP, RAIN DRIP
INTERIOR 130B	130B	6'-0"	7'-0"	1 3/4"	ALUM	FG3	2	ALUM	N8	H2	J2	T6	35	CONTINUOUS HINGE, CLOSER, WEATHER STRIP
INTERIOR 131A	131A	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1	T7	37	PANIC HARDWARE, INTERIOR CARD READER (OFOI), CLOSER, IF ALTERNATE 6A IS ACCEPTED, THIS DOOR DOES NOT HAVE THRESHOLD
EXTERIOR 200A	200A	6'-0"	7'-0"	1 3/4"	ALUM	FG2	2	ALUM	S2	6AS-01	1AS-02	T13	40	PANIC HARDWARE, CONTINUOUS HINGE, CLOSER, AUTO OPERATOR (1 LEAF), KEYS REMOVABLE MULLION, RAIN DRIP, WEATHER STRIP
INTERIOR 200B	200B	6'-0"	7'-0"	1 3/4"	ALUM	FG3	2	ALUM	N15	H2	J2	T6	36	CONTINUOUS HINGE, AUTO OPERATOR
INTERIOR 201A	201A	3'-0"	7'-0"	1 3/4"	ALUM	FG1	1	ALUM	N16	H2	J2		25	PANIC HARDWARE, CONTINUOUS HINGE, CLOSER, HOLD OPEN
INTERIOR 201B	201B	3'-0"	7'-0"	1 3/4"	ALUM	FG1	1	ALUM	N17	H2	J2		25	PANIC HARDWARE, CONTINUOUS HINGE, CLOSER, HOLD OPEN
INTERIOR 202	202	3'-0"	7'-0"	1 3/4"	WD	N	1	HM	HM1	H1	J1		04	
INTERIOR 203	203	3'-0"	7'-0"	1 3/4"	WD	N	1	HM	HM1	H1	J1		04	
INTERIOR 204	204	3'-0"	7'-0"	1 3/4"	WD	N	1	HM	HM1	H1	J1		04	
INTERIOR 205	205	3'-0"	7'-0"	1 3/4"	WD	N	1	HM	HM1	H1	J1		04	
INTERIOR 206	206	3'-0"	7'-0"	1 3/4"	WD	N	1	HM	HM1	H1	J1		04	
INTERIOR 207	207	3'-0"	7'-0"	1 3/4"	WD	N	1	HM	HM1	H1	J1		04	
INTERIOR 208A	208A	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1		10	
INTERIOR 208B	208B	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1	T1	10	ELECTRICAL ROOM
INTERIOR 209	209	3'-0"	7'-0"	1 3/4"	WD	N	1	HM	HM1	H1	J1		04	
INTERIOR 210	210	3'-0"	7'-0"	1 3/4"	WD	N	1	HM	HM1	H1	J1		04	
INTERIOR 211	211	3'-0"	7'-0"	1 3/4"	WD	F	1	HM	HM1	H1	J1	T2	14	MECHANICAL ROOM
INTERIOR 212	212	3'-0"	7'-0"	1 3/4"	WD	N	1	HM	HM1	H1	J1		04	
INTERIOR 213	213	3'-0"	7'-0"	1 3/4"	WD	N	1	HM	HM1	H1	J1		04	
INTERIOR 214	214	3'-0"	7'-0"	1 3/4"	ALUM	FG1								

LEGEND:	
HM -	HM FRAME DESIGNATION
AL -	ALUMINUM WINDOW FRAME
N -	INTERIOR ALUM. STOREFRONT
S -	EXTERIOR ALUM. STOREFRONT
GLAZING:	
IG -	INSULATED GLASS
IG-1	LOW-E TINTED
IG-2	LOW-E TINTED TEMPERED
IG-3	LOW-E TINTED SPANDREL
IG-4	CLEAR TEMPERED
SG-CT	SAFETY GLASS - CLEAR TEMPERED



WINDOW LEGEND
1/4" = 1'-0"



The drawings are to be used only for the project identified on the title block. No part of this drawing shall be reproduced or used in any manner without the written consent of the architect. All work shall be subject to the terms and conditions of the contract. Smith Sinnett Architecture, P.A. 2024

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**Onslow County Senior Services Center
Renovation
Onslow County Government**
4024 Richlands Hwy, Jacksonville, NC 28540

ID	DATE	DESCRIPTION
3	11/19/2024	Addendum 3
1	11/05/2024	Addendum 1

DRAWN BY: FA
CHECKED BY: JEG

**STOREFRONT,
WINDOW AND
FRAME
ELEVATIONS**

2021029 19 NOV. 2024

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FINISH LEGEND

WALL FINISHES BASED ON PLAN LOCATION	ROOM NAME ROOM NUMBER	INDICATES ACCENT PAINT OR WALL TILE
CEILING TYPE - REFER TO REFLECTIVE CEILING PLANS (A1-20, A1-21)		INDICATES WALL TO RECEIVE LEVEL 5 GWB FINISH

WALL FINISH	FLOOR FINISH
PT-1 INTERIOR FIELD PAINT EPT-1 EPOXY FIELD/CEILING PAINT PT-2 CEILING PAINT EPT-2 EPOXY CEILING PAINT PT-3 ACCENT PAINT PT-4 ACCENT PAINT PT-5 ACCENT PAINT PT-6 ACCENT PAINT PT-7 ACCENT PAINT PT-8 ACCENT BULKHEADS PT-9 ACCENT COLUMN PAINT PT-10 ACCENT PAINT PT-11 HM FRAME AND DOOR PAINT PT-12 EXTERIOR PAINT WT-1 WALL TILE	SC SEALED CONCRETE CPT-1 CARPET TILE CPT-2 CARPET TILE WCT-1 WALK OFF CARPET TILE FT1 FLOOR TILE 1 (6X6) RAF RESILIENT ATHLETIC FLOORING VCT-1 VINYL COMPOSITION TILE VCT-2 VINYL COMPOSITION TILE LVT LUXURY VINYL TILE

WALL BASE	SURFACE FINISH
RB RUBBER BASE TB TILE BULKHEAD MT METAL TRIM - SCHLUTER DILEX-EHK	PL-1 PLASTIC LAMINATE CASEWORK PL-2 PLASTIC LAMINATE CASEWORK PL-3 PLASTIC LAMINATE CASEWORK PL-4 PLASTIC LAMINATE CASEWORK PL-5 PLASTIC LAMINATE CASEWORK PL-6 PLASTIC LAMINATE CASEWORK SS1 SOLID SURFACE CASEWORK COUNTER SS2 SOLID SURFACE CASEWORK COUNTER SS3 REFER TO PLUMBING FOR CASEWORK

THRESHOLD - REFER TO A6-02	WINDOW FINISHES
T1 VCT TO CPT TRANSITION STRIP T2 SC TO CPT TRANSITION STRIP T3 VCT TO FT TRANSITION STRIP T4 LVT TO RAF TRANSITION STRIP T5 FT TO FT TRANSITION STRIP T6 LVT TO CPT TRANSITION STRIP T7 LVT TO VCT TRANSITION STRIP T8 CPT TO FT TRANSITION STRIP T9 LVT TO FT TRANSITION STRIP	SS4 WINDOW STOOL RS ROLLER SHADES BO BLACK OUT SHADE

GENERAL FINISH NOTES:

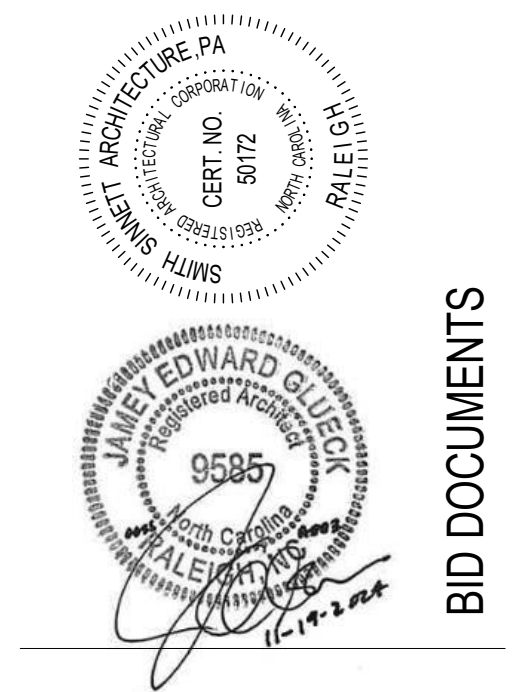
- ALL GYPSUM BOARD CEILINGS AND BULKHEADS UNLESS OTHERWISE NOTED SHALL BE PT-2.
- ALL INTERIOR EXPOSED CEILINGS UNLESS OTHERWISE NOTED SHALL BE PT-2.
- ALL BULKHEADS IN WET LOCATIONS SHALL BE EPT-1.
- EPT-1 TO BE USED ON ALL RESTROOM WALLS ABOVE AND ADJACENT TO WALL TILE.
- ALL SHOWER CEILINGS AND BULKHEADS SHALL BE EPT-2.
- FINISH MATERIALS SUBMITTED AS EQUALS TO THE BASIS OF DESIGN WILL BE APPROVED OR REJECTED BASED ON COLOR INTEGRITY AND TACTILE CHARACTERISTICS IN ADDITION TO TECHNICAL SPECIFICATIONS.
- FINISHES ARE CONTINGENT ON FINAL OWNER AND ARCHITECT APPROVAL.
- METAL FINISHING STRIPS TO BE USED ON ALL VERTICAL AND HORIZONTAL EDGES, AND CORNERS OF WALL TILE.
- FINISHED-EDGE TILE TO BE USED AT TOP COURSE OF WALL TILE.
- GC TO ENSURE LEVEL FLOOR FINISH AT ALL TILE TRANSITIONS.
- ALL EXTERIOR WINDOWS TO HAVE ROLLER SHADE BLINDS UNLESS OTHERWISE NOTED, REFER TO SPECIFICATIONS.
- ALL CERAMIC TILE TO HAVE CONTROL JOINTS THAT ALIGN WITH CONTROL JOINTS IN CONCRETE SLAB.



1 FINISH PLAN
A7-01
1/8" = 1'-0"



T 919 781 8582
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4000 Lake Boone Trail
Suite 205
Raleigh, NC 27607
info@smithsinnett.com



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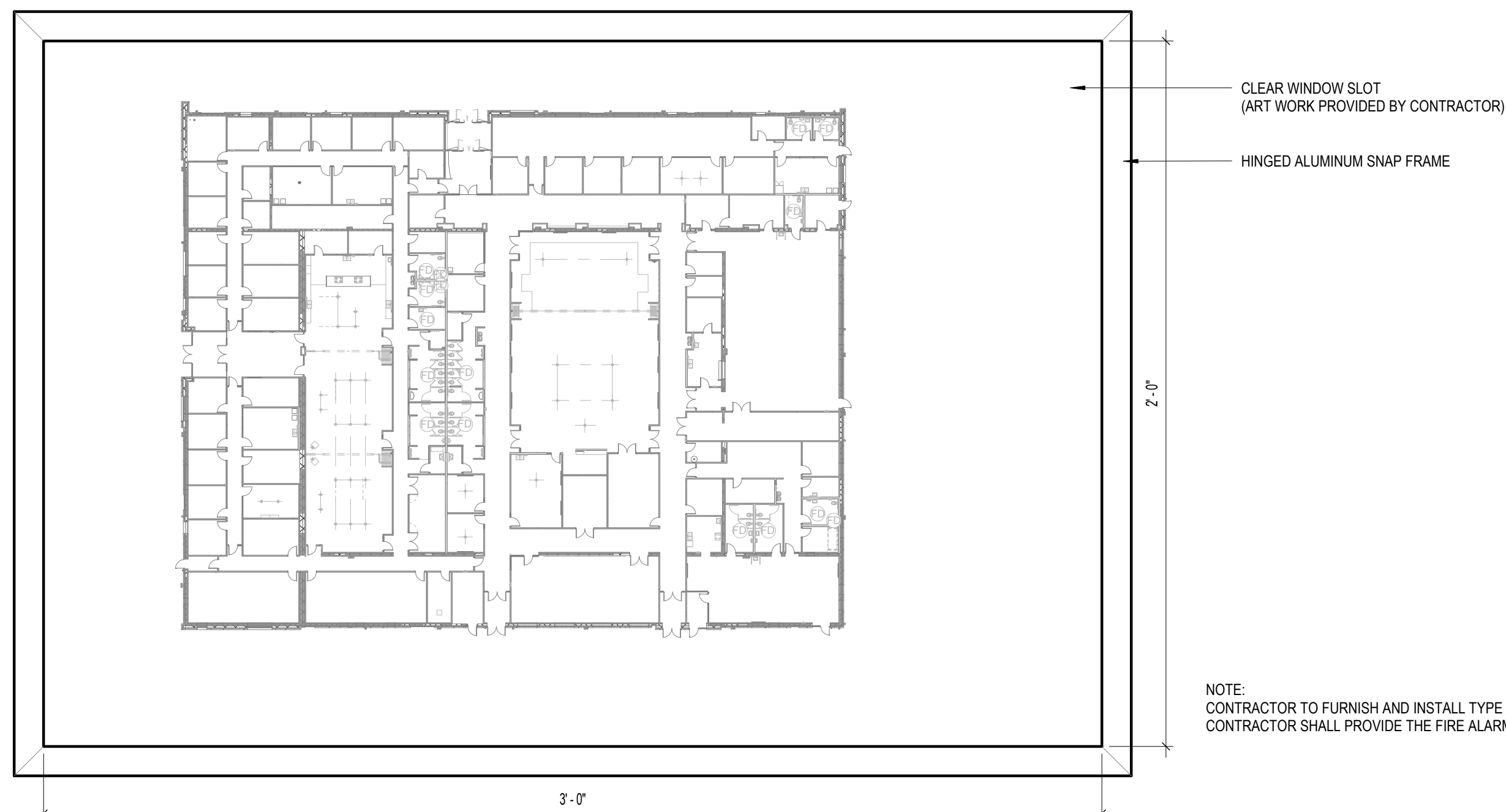
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**Onslow County Senior Services Center
Renovation
Onslow County Government
4024 Richlands Hwy, Jacksonville, NC 28540**

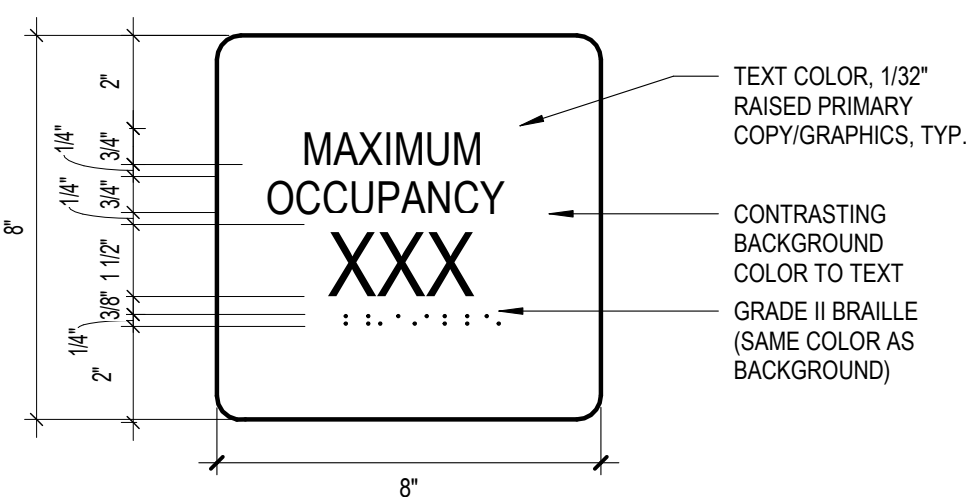
3	11/19/2024	Addendum 3
ID	DATE	DESCRIPTION

VESTIBULE 100	PT1 PT1 PT1 PT1 PT1 VCT-1 RB B
ACC VESTIBULE 100	PT1 PT1 PT1 PT1 PT1 VCT-1 RB B
VESTIBULE 104	WT1 EPT1 EPT1 WT1EPT1 EPT1 FT1 TBM1 B
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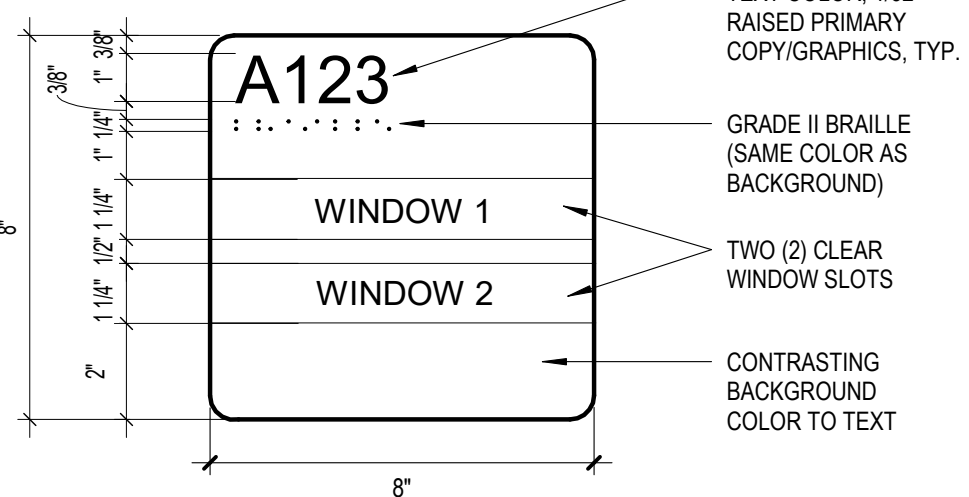
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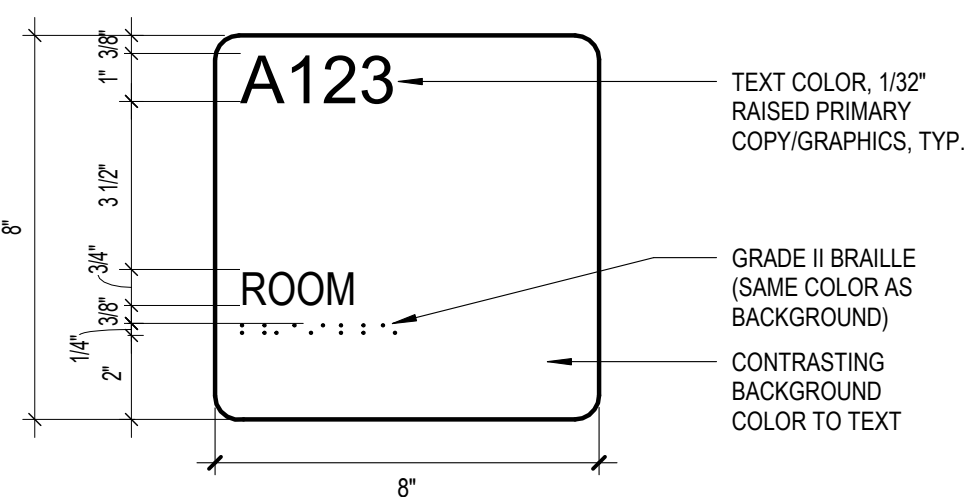
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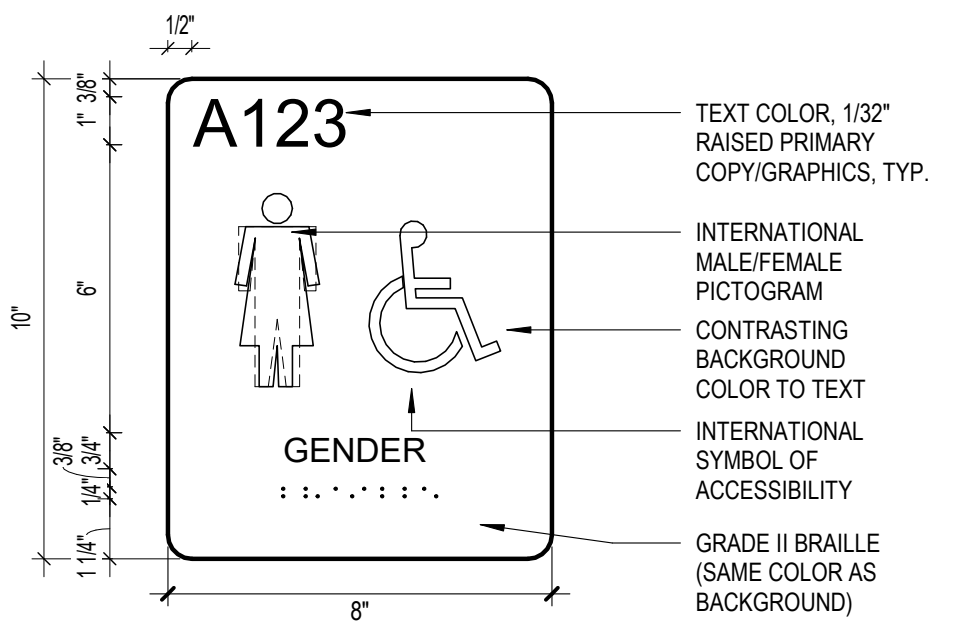
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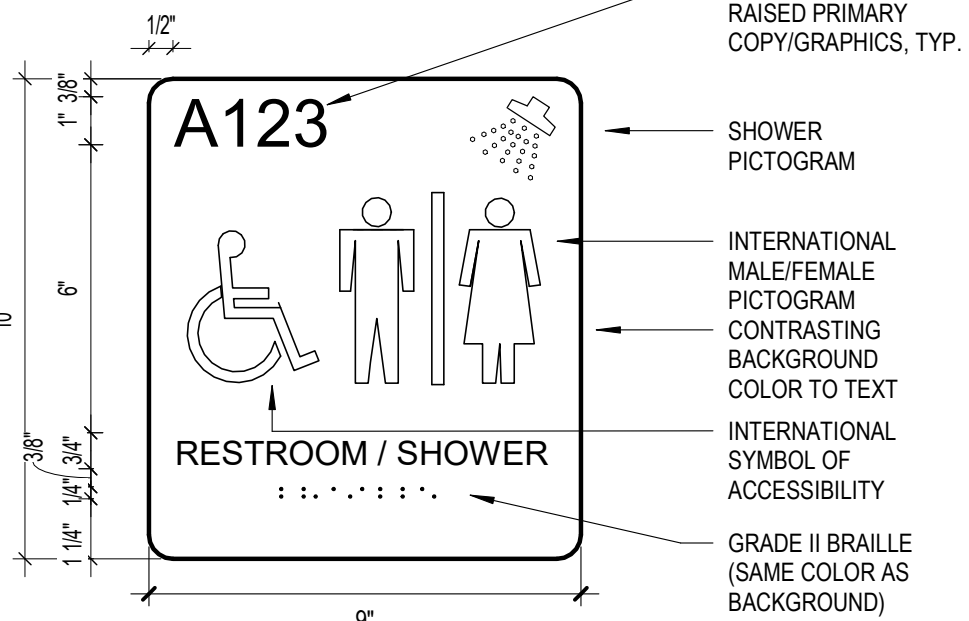
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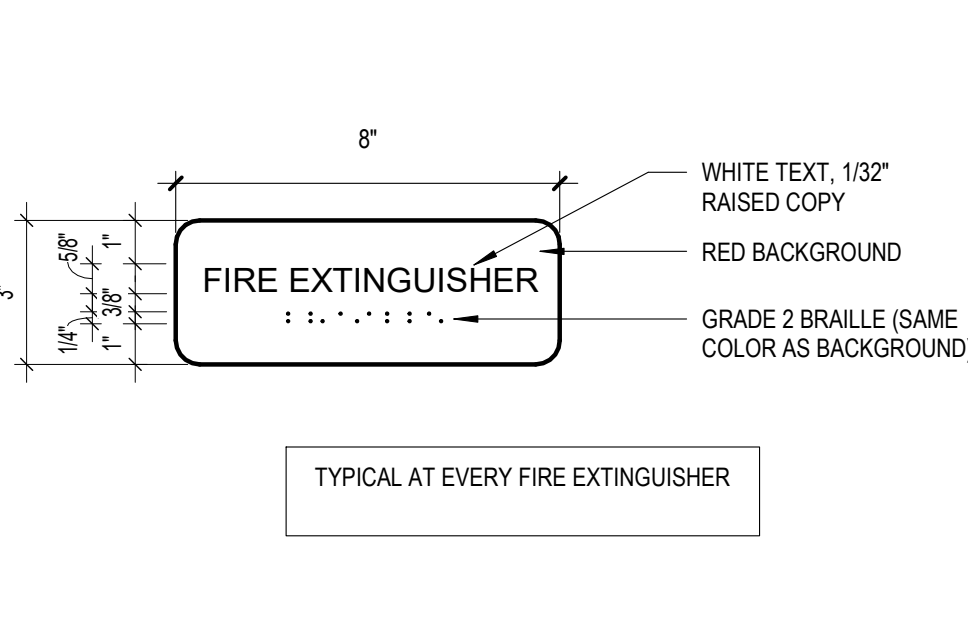
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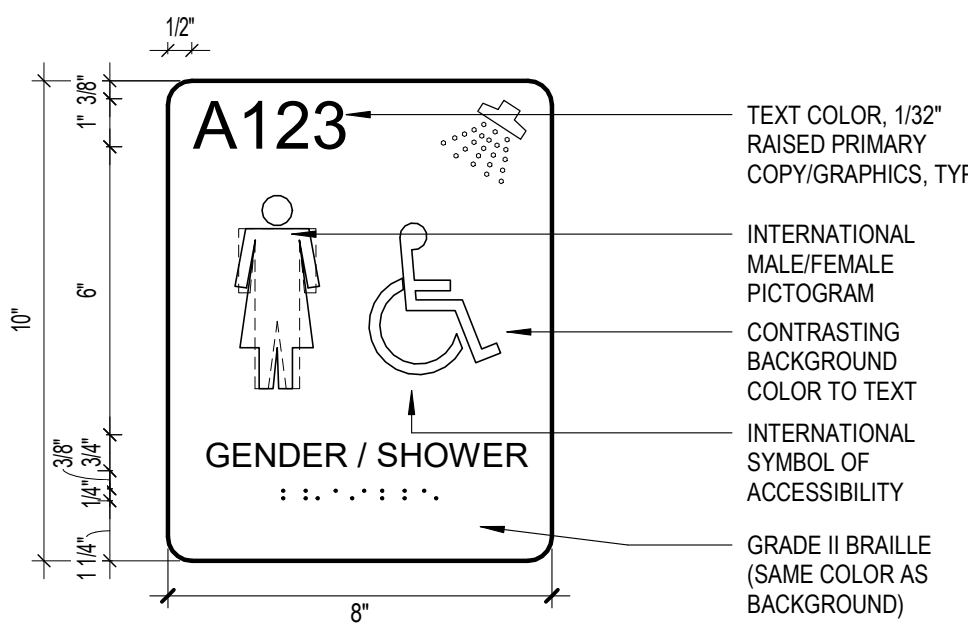
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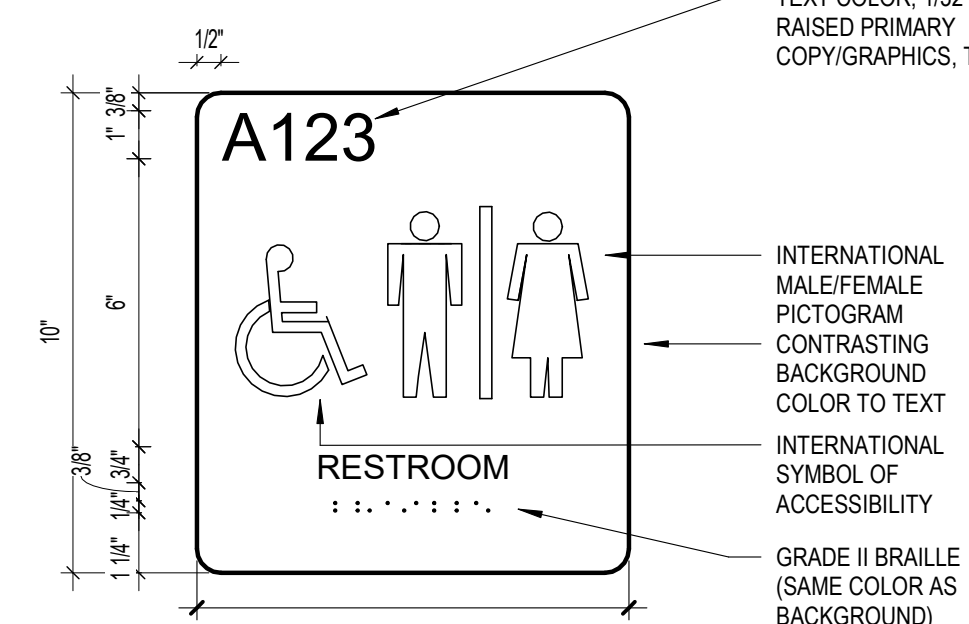
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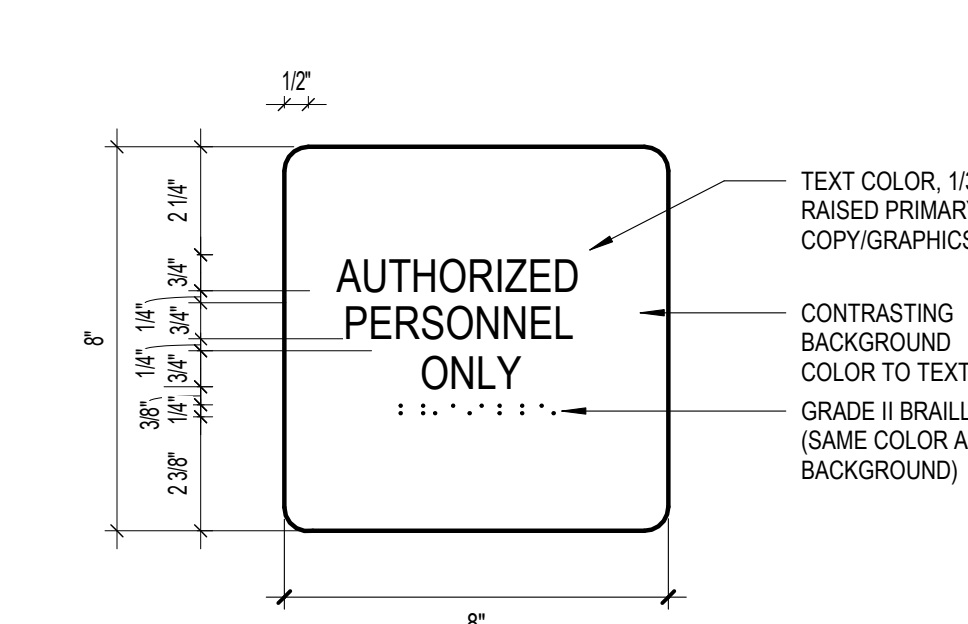
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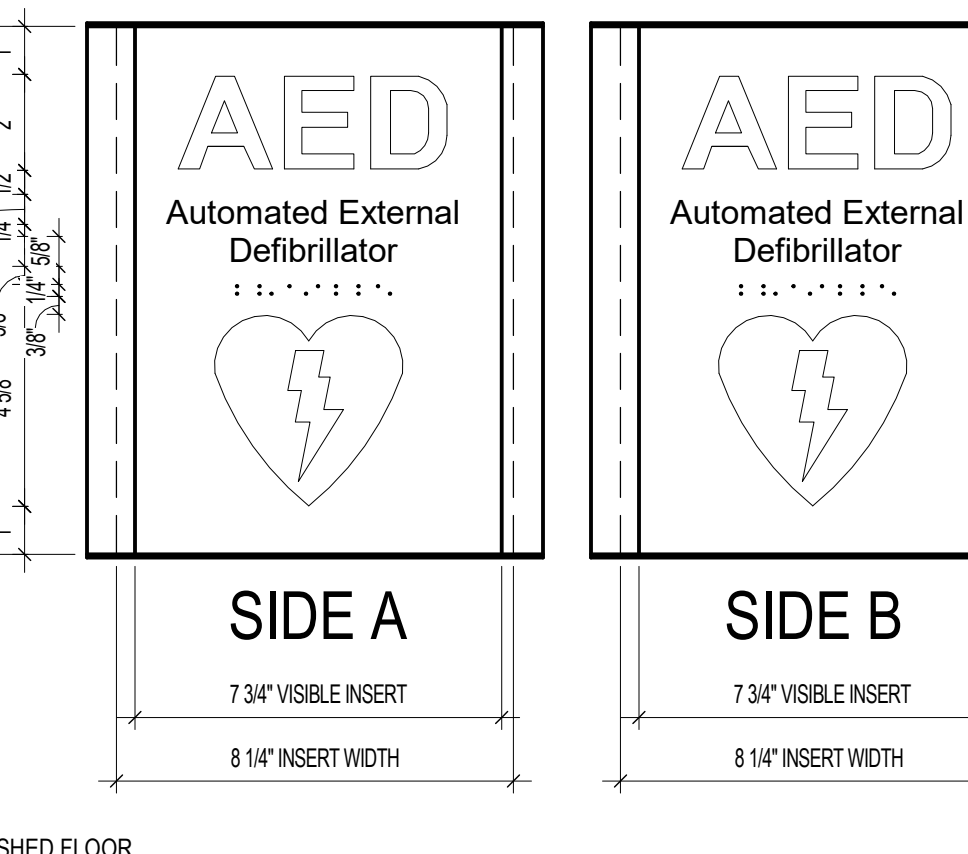
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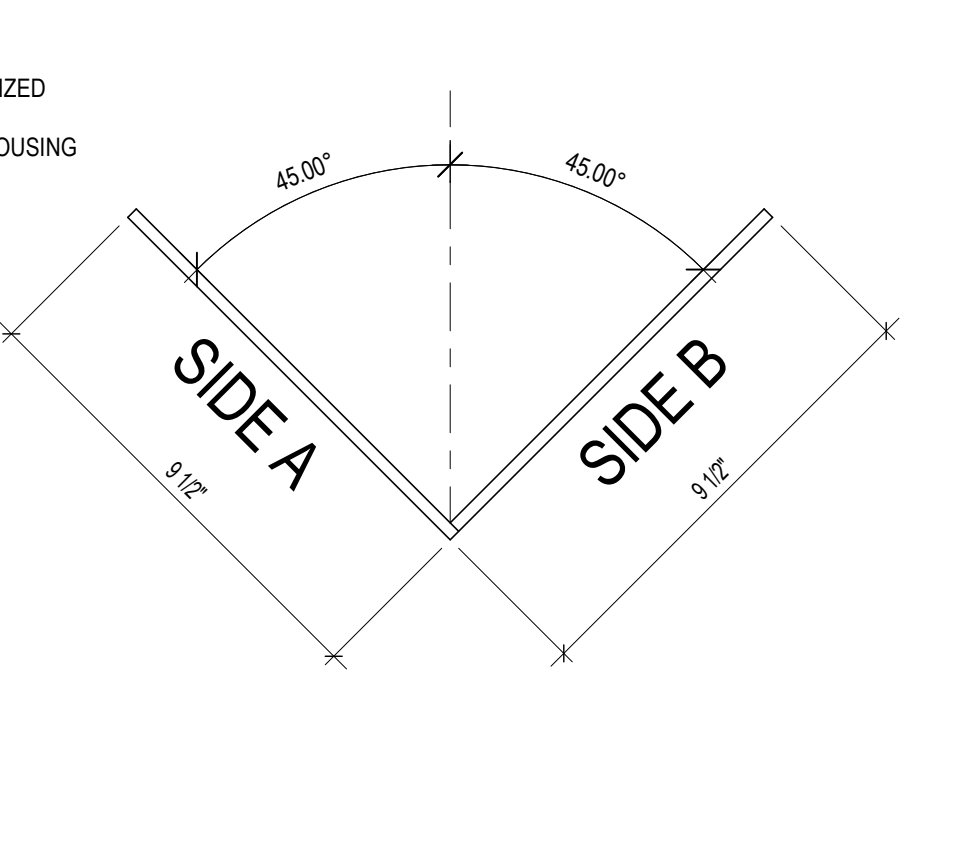
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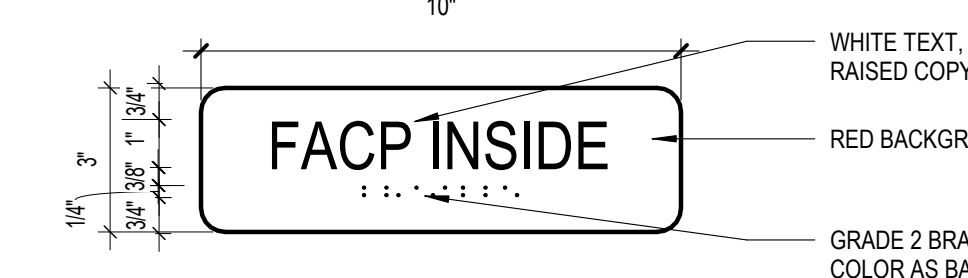
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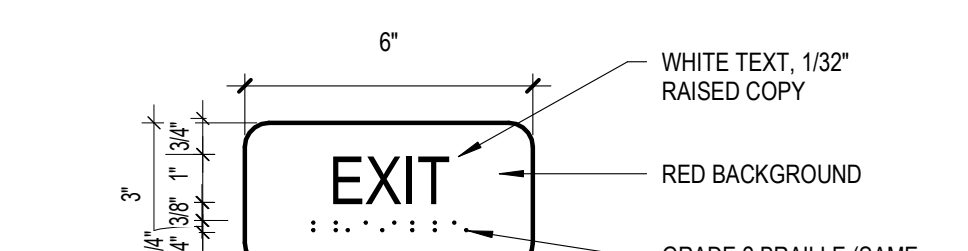
SIGN TYPE J (PLAN VIEW)



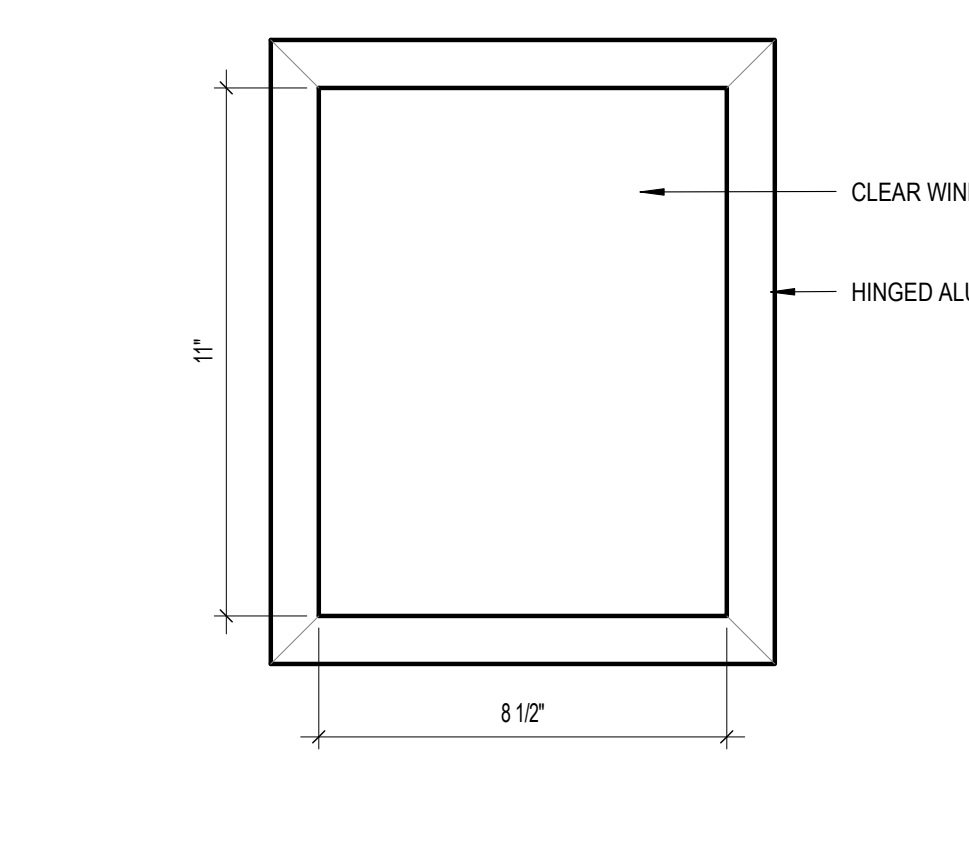
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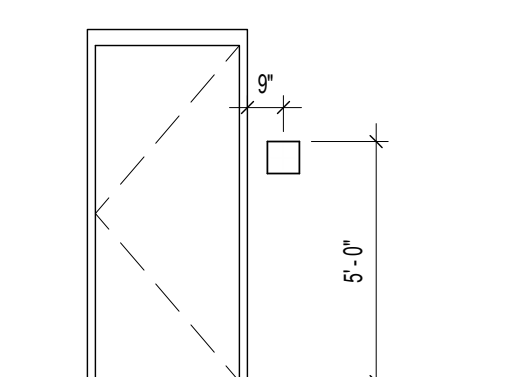
SIGN TYPE L



SIGN TYPE M



SIGNAGE ELEVATION & NOTES



ROOM NO	ROOM NAME	FLOOR	BASE	NORTH	EAST	SOUTH	WEST	CEILING FINISH	NOTES
100	VESTIBULE	WCT-1	RB	PT1	PT1	PT1	PT1	KPT2	
101	LOBBY	LVT	RB	PT1	PT1	PT1	PT1	KPT2	
102	RECEPTION	CP1-1	RB	PT1	PT1	PT1	PT4	A	
102A	CORRIDOR	LVT	RB	PT1	PT1	PT1	PT1	A	
103	VENDING	LVT	RB	PT1	PT1	PT1	PT1	A	
104	OPEN OFFICE AREA	CP1-2	RB	PT1	PT1	PT1	PT1	A	
104A	OFFICE	CP1-1	RB	PT1	PT1	PT1	PT1	A	
104B	OFFICE	CP1-1	RB	PT1	PT3	PT1	PT1	A	
104C	ADMIN. STO.	CP1-1	RB	PT1	PT3	PT1	PT1	A	
104D	OFFICE	CP1-1	RB	PT1	PT3	PT1	PT1	A	
104E	CONFERENCE ROOM	CP1-2	RB	PT1	PT4	PT4	PT4	A	
104F	OFFICE	CP1-1	RB	PT1	PT3	PT1	PT1	A	
104G	BREAK ROOM	VCT-2	RB	PT1	PT1	PT4	PT1	A	
104H	ADMIN. STO.	CP1-1	RB	PT1	PT1	PT1	PT1	A	
104I	WOMEN TLT	FT1	TBMT	WT1	WT1	WT1	WT1	EPT1	B
104J	MEN TLT	FT1	TBMT	WT1	WT1	WT1	WT1	EPT1	B
106	CONGREGATE DINING	WCT-1	RB	PT1	PT1	PT1	PT1	JPT2	
106A	VESTIBULE	WCT-1	RB	PT1	PT1	PT1	PT1	B	
106B	STAFF TLT	FT1	TBMT	WT1	WT1	WT1	WT1	EPT1	B
106C	OFFICE	CP1-1	RB	PT3	PT1	PT1	PT1	A	
107	MECH.	VCT-1	RB	PT1	PT1	PT1	PT1	JPT2	
108	IDF	VCT-1	RB	PT1	PT1	PT1	PT1	JPT2	
109	KITCHEN	FT-1	RB	PT1	PT1	PT1	PT4	B	
109A	PANTRY	VCT-1	RB	PT1	PT1	PT1	PT1	A	
110	STORAGE	VCT-1	RB	PT1	PT1	PT1	PT1	DPT2	
111	STORAGE	VCT-1	RB	PT1	PT1	PT1	PT1	A	
112	MECHANICAL	VCT-1	RB	PT1	PT1	PT1	PT1	JPT2	
113	OPEN OFFICE WORK AREA	VCT-2	RB	PT3	PT1	PT1	PT1	A	
113A	OFFICE	CP1-1	RB	PT3	PT1	PT1	PT1	A	
113B	LAUNDRY	FT1	TBMT	EPT1	EPT1	EPT1	EPT1	B	
113C	SHOWER	FT1	TBMT	WT	WT	WT	WT	EPT2	
113D	QUIET ROOM	VCT-1	RB	PT1	PT1	PT1	PT1	A	
113E	FILE ROOM	VCT-1	RB	PT1	PT1	PT1	PT1	A	
113F	CORRIDOR	VCT-1	RB	PT1	PT1	PT1	PT1	A	
114	IN HOME STORAGE	VCT-1	RB	PT1	PT1	PT1	PT1	A	
115A	ACTIVITY KITCHEN	WCT-1	RB	PT1	PT1	PT1	PT1	A	
115B	MENS	FT1	TBMT	EPT1	WT1	EPT1	EPT1	B	
115C	WOMENS	FT1	TBMT	EPT1	WT1	EPT1	EPT1	B	
115D	ADC VESTIBULE	WCT-1	RB	PT1	PT1	PT1	PT1	B	
116	ACTIVITY ROOM B	LVT	RB	PT1	PT1	PT1	PT1	DJPT2	
116B	ACTIVITY STORAGE	VCT-1	RB	PT1	PT1	PT1	PT1	A	
116C	CLASSROOM 1	VCT-1	RB	PT1	PT1	PT1	PT1	A	
116D	PRESENTATION SPACE	LVT	RB	PT1	PT7	PT7	PT7	DPT2	
116E	ACTIVITY ROOM A	LVT	RB	PT6	PT1	PT1	PT1	JPT2	
117	FITNESS STORAGE	VCT-1	RB	PT1	PT1	PT1	PT1	A	
118	FITNESS ROOM	FT1	TBMT	EPT1	EPT1	EPT1	EPT1	B	
119	ELEC.	SC	RB	PT1	PT1	PT1	PT1	LPT2	
120	MDP	VCT-1	RB	PT1	PT1	PT1	PT1	LPT2	
121	CLASSROOM 3	VCT-1	RB	PT1	PT1	PT1	PT1	A	
122	CLASSROOM 2	VCT-1	RB	PT1	PT1	PT1	PT1	A	
123	JANITOR	FT1	TBMT	WT1	WT1	WT1	WT1	B	
124	MENS	FT1	MT	WT1	WT1	WT1	WT1	B	
125	WOMENS	FT1	MT	WT1	WT1	WT1	WT1	B	
126	STO.	FT1	TBMT	WT1	WT1	WT1	WT1	B	
127	SHIP	CP1-1	RB	PT1	PT1	PT1	PT1	A	
128	COMPUTER LAB	CP1-1	RB	PT1	PT1	PT1	PT1	DJPT2	
129	VESTIBULE	WCT-1	RB	PT1	PT1	PT1	PT1	B	
130	VESTIBULE	WCT-1	RB	PT1	PT1	PT1	PT1	B	
131	CORRIDOR	LVT	RB	PT1	PT1	PT1	PT6	DJPT2	
200	VESTIBULE	WCT-1	RB	PT1	PT1	PT1	PT1	DJPT2	
201	LOBBY	LVT	RB	PT1	PT1	PT1	PT1	DJPT2	
202	FLEX OFFICE	CP1-1	RB	PT3	PT1	PT1	PT1	A	
203	COOP OFFICE 10	CP1-1	RB	PT1	PT1	PT3	PT1	A	
204	COOP OFFICE 2	CP1-1	RB	PT3	PT1	PT1	PT1	A	
205	COOP OFFICE 9	CP1-1	RB	PT3	PT1	PT1	PT1	A	
206	COOP OFFICE 11	CP1-1	RB	PT1	PT1	PT3	PT1	A	
207	COOP OFFICE 8	CP1-1	RB	PT1	PT1	PT3	PT1	A	
208A	4H STORAGE	CP1-1	RB	PT1	PT1	PT1	PT1	A	
208B	ELEC.	VCT-1	RB	PT1	PT1	PT1	PT1	KPT2	
209	COOP OFFICE 7	CP1-1	RB	PT3	PT1	PT1	PT1	A	
210	COOP OFFICE 6	CP1-1	RB	PT1	PT1	PT3	PT1	A	
211	MECHANICAL	SC	RB	PT1	PT1	PT1	PT1	KPT2	
212	COOP OFFICE 5	CP1-1	RB	PT1	PT1	PT1	PT3	A	
213	COOP OFFICE 4	CP1-1	RB	PT1	PT1	PT1	PT3	A	
214	WORK ROOM	VCT-2	RB	PT1	PT1	PT4	PT1	A	
215	COOP OFFICE 3	CP1-1	RB	PT1	PT1	PT3	PT1	A	
216	BREAK ROOM	VCT-2	RB	PT1	PT1	PT4	PT1	A	
217	COOP OFFICE 2	CP1-1	RB	PT1	PT1	PT1	PT3	A	
218	COOP OFFICE 1	CP1-1	RB	PT1	PT3	PT1	PT1	A	
219	AGHORT STO.	VCT-1	RB	PT1	PT1	PT1	PT1	A	
220A	STO	VCT-1	RB	PT1	PT1	PT1	PT1	A	
220B	PANTRY	VCT-1	RB	PT1	PT1	PT1	PT1	A	
221	TRAINING SPACE	LVT	RB	PT1	PT1	PT1	PT1	JPT2	
222	TRAINING SPACE	LVT	RB	PT1	PT1	PT1	PT1	JPT2	
224	CHAIR STO	VCT-1	RB	PT1	PT1	PT3	PT1	A	
230	S & W OFFICE 3	CP1-1	RB	PT1	PT1	PT3	PT1	A	
231	S & W OFFICE 1	CP1-1	RB	PT3	PT1	PT1	PT1	A	
232	BREAK ROOM	VCT-2	RB	PT1	PT4	PT4	PT1	A	
233	S & W OFFICE 2	CP1-1	RB	PT3	PT1	PT1	PT1	A	
234	FILE STORAGE	CP1-1	RB	PT1	PT1	PT1	PT1	A	
235	STORAGE	CP1-1	RB	PT3	PT1	PT1	PT1	A	
236	CONFERENCE ROOM	CP1-2	RB	PT4	PT4	PT4	PT4	A	
237	STORAGE	CP1-1	RB	PT1	PT1	PT1	PT1	A	
240	JANITOR	FT1	TBMT	EPT1	EPT1	EPT1	EPT1	B	
241	MENS	FT1	MT	WT1	WT1	WT1	WT1	B	
242	WOMENS	FT1	MT	WT1	WT1	WT1	WT1	B	
243	STO	FT1	TBMT	WT1	WT1	WT1	WT1	B	
244	LAUNDRY	FT1	TBMT	EPT1	EPT1	EPT1	EPT1	B	
245	MEN SHOWER	FT1	TBMT	WT1EPT1	WT1	WT1EPT1	EPT1	EPT2	
246	WOMEN SHOWER	FT1	TBMT	WT1EPT1	WT1	WT1EPT1	EPT1	EPT2	
247	STO	FT1	TBMT	WT1	WT1	WT1	WT1	JPT2	
248	CORRIDOR	CP1-2	RB	PT1	PT1	PT1	PT1	A	
249	CORRIDOR	CP1-2	RB	PT1	PT1	PT1	PT1	DPT2	
250	VESTIBULE	WCT-1	RB	PT1	PT1	PT1	PT1	B	
251	OFFICE	CP1-1	RB	PT1	PT1	PT3	PT1	A	
252	OFFICE	CP1-1	RB	PT3	PT1	PT1	PT1	A	
253	OFFICE	CP1-2	RB	PT1	PT1	PT3	PT1	A	
254	OFFICE	CP1-2	RB	PT1	PT1	PT3	PT1	A	
255	CORRIDOR	VCT-1	RB	PT1	PT1	PT3	PT1	DPT2	

ROOM NAME	ROOM NUMBER	TYPE	COPY	NOTES
VESTIBULE	100			
LOBBY	101			
RECEPTION	102	C	102 RECEPTION	
CORRIDOR	102A	N	AUTHORIZED PERSONNEL ONLY	
VENDING	103	C	103 VENDING	
OPEN OFFICE AREA	104	N,B	VARIES	WORKSTATIONS TO HAVE SIGN TYPE B WITH NO ROOM NUMBER. REFER TO PLAN FOR QUANTITY AND LOCATION
OFFICE	104A	B	104A	
OFFICE	104B	B	104B	
ADMIN. STO.	104C	C	104C ADMINISTRATION STORAGE	
CONFERENCE ROOM	104E	C	104E CONFERENCE ROOM	PROVIDE BACK PLATE
OFFICE	104F	B	104F	
BREAK ROOM	104G	C	104G BREAK ROOM	PROVIDE BACK PLATE
ADMIN. STO.	104H	C	104H ADMINISTRATION STORAGE	
WOMEN TLT	104I	D	104I WOMEN RESTROOM	
MEN TLT	104J	D	104J MENS RESTROOM	
CONGREGATE DINING	106	C,A,N	SIGN COPY FOR TWO SIGN TYPES	EXTERIOR & A- ARCH. TO PROVIDE OCCUPANCY NUMBER
VESTIBULE	106A	N,C	SIGN COPY FOR TWO SIGN TYPES	EXTERIOR SIGN
STAFF TLT	106B	H	106B STAFF RESTROOM	
OFFICE	106C	B	106C	
OFFICE	106D	B	106D	
IDF	107	C	107 MECHANICAL	
IDF	108	C	108 MECHANICAL	
KITCHEN	109	C	109 KITCHEN	
PANTRY	109A	C	109A PANTRY	
STORAGE	110	C	110 STORAGE	
MECHANICAL	112	C	112 MECHANICAL	
OPEN OFFICE WORK AREA	113	B	113	
OFFICE	113A	B	113A	
LAUNDRY	113B	C	113B LAUNDRY ROOM	
SHOWER	113C	E	113C RESTROOM SHOWER	
QUIET ROOM	113D	C	113D QUIET ROOM	
FILE ROOM	113E	C	113E FILE ROOM	
CORRIDOR	113F	N	AUTHORIZED PERSONNEL ONLY	
IN HOME STORAGE	114	C	114 IN HOME STORAGE	
ADULT DAY ROOM	115	N,C	SIGN COPY FOR TWO SIGN TYPES	N- EXTERIOR SIGN AND C- INTERIOR SIGN
ACTIVITY KITCHEN	115A	D	115A ACTIVITY KITCHEN	
MENS	115B	D	115B MENS RESTROOM	
WOMENS	115C	D	115C WOMENS RESTROOM	
ADC VESTIBULE	115D	C	115D ADULT DAY ROOM	EXTERIOR SIGN
ACTIVITY ROOM B	116	C,A	116 ACTIVITY ROOM	A- ARCH. TO PROVIDE OCCUPANCY NUMBER
ACTIVITY STORAGE	116B	C	116B ACTIVITY STORAGE	
CLASSROOM 1	116C	C	116C CLASSROOM 1	
PRESENTATION SPACE	116D	C	116D PRESENTATION SPACE	
ACTIVITY ROOM A	116E	C,A	116E ACTIVITY ROOM	A- ARCH. TO PROVIDE OCCUPANCY NUMBER
FITNESS STORAGE	117	C	117 FITNESS STORAGE	

ALTERNATE 6C LEGEND

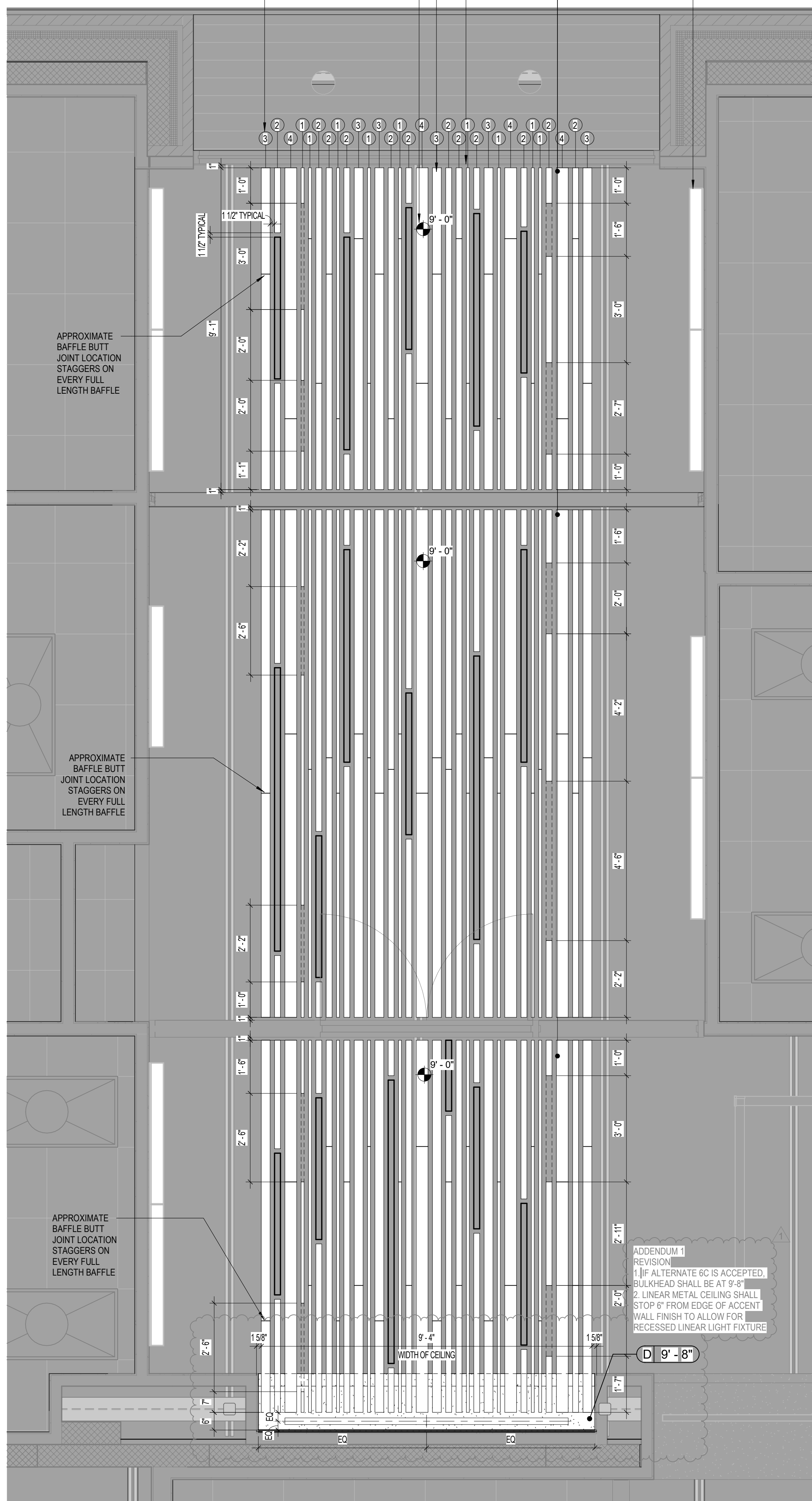
- ① 1 INCH WIDE CEILING BAFFLE
- ② 2 INCH WIDE CEILING BAFFLE
- ③ 3 INCH WIDE CEILING BAFFLE
- ④ 4 INCH WIDE CEILING BAFFLE
- APPROXIMATE LOCATION OF SPRINKLER HEAD
- APPROXIMATE LOCATION OF BUTT JOINT ON FULL LENGTH BAFFLE

GENERAL NOTES

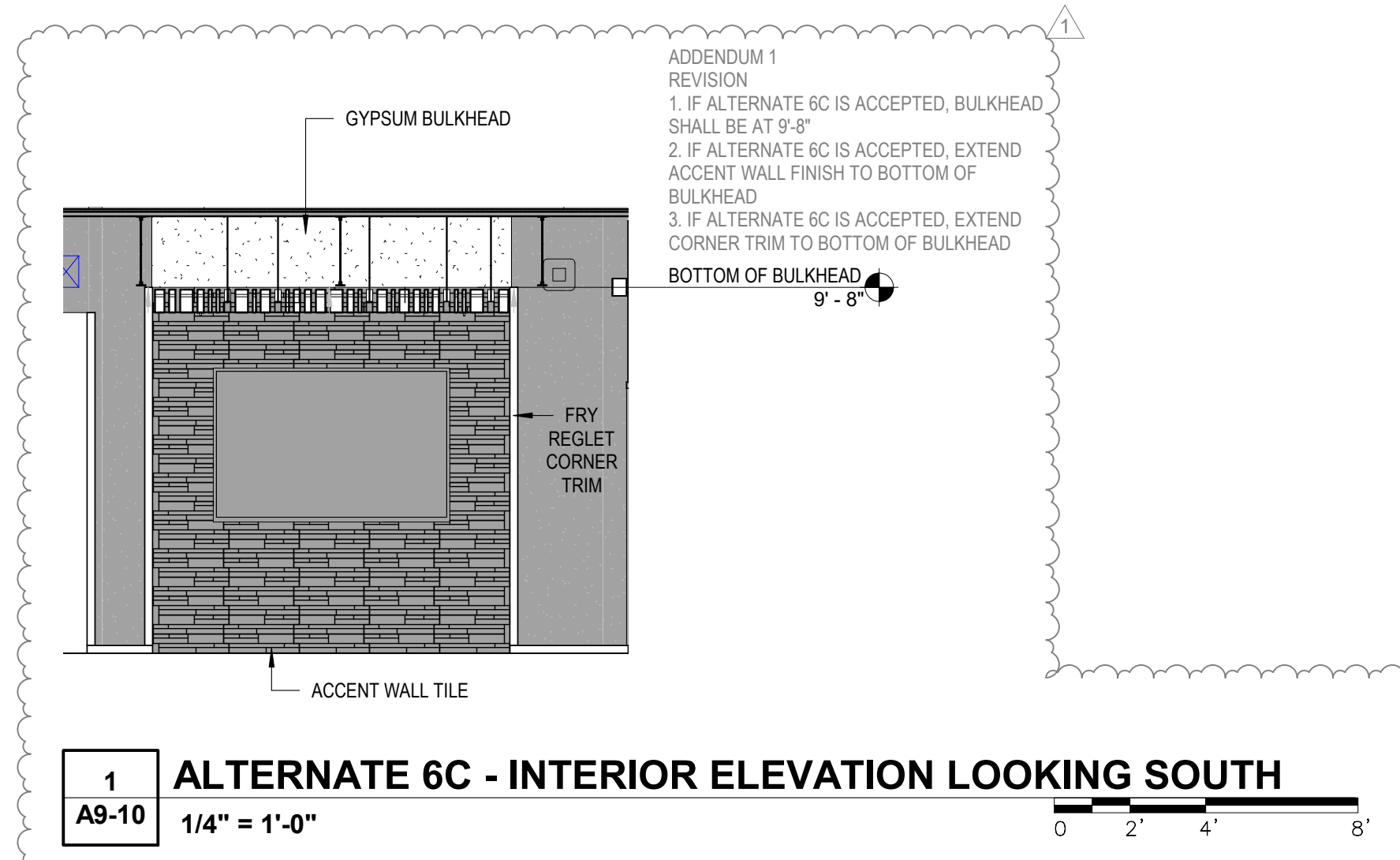
1. DEPTH OF BAFFLES ALL 9'-0"
 2. IF ALTERNATE 6C IS ACCEPTED, ALLOVE SHALL BE LEFT EXPOSED. SEE #A9-10

ADDENDUM 3 REVISION
 1. REMOVE GENERAL NOTE 2 FROM ALTERNATE 6C LEGEND.

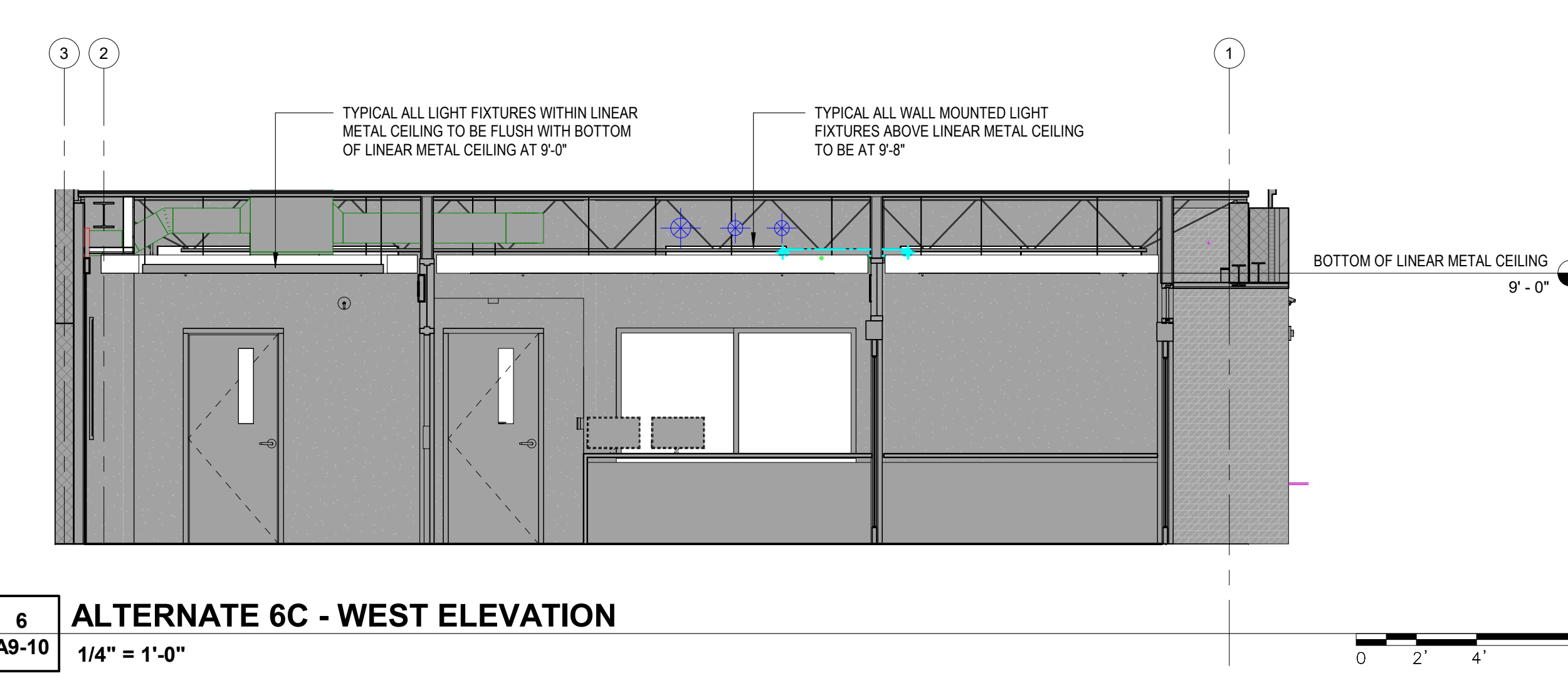
BOTTOM OF WALL MOUNTED LIGHT FIXTURES TO BE AT 9'-0"
 EXPOSED EXISTING STRUCTURE - PAINT EXPOSED STRUCTURE, METAL ROOF DECK, CONDUIT, JUNCTION BOXES, PIPING, DUCTWORK, AND ALL ASSOCIATED COMPONENTS.
 BOTTOM OF LINEAR METAL CEILING AT 9'-0"
 BOTTOM OF ALL LIGHT FIXTURES IN LINEAR METAL CEILING TO BE AT 9'-0"
 TAG APPLIES TO ENTIRE LINE OF TAGGED BAFFLE



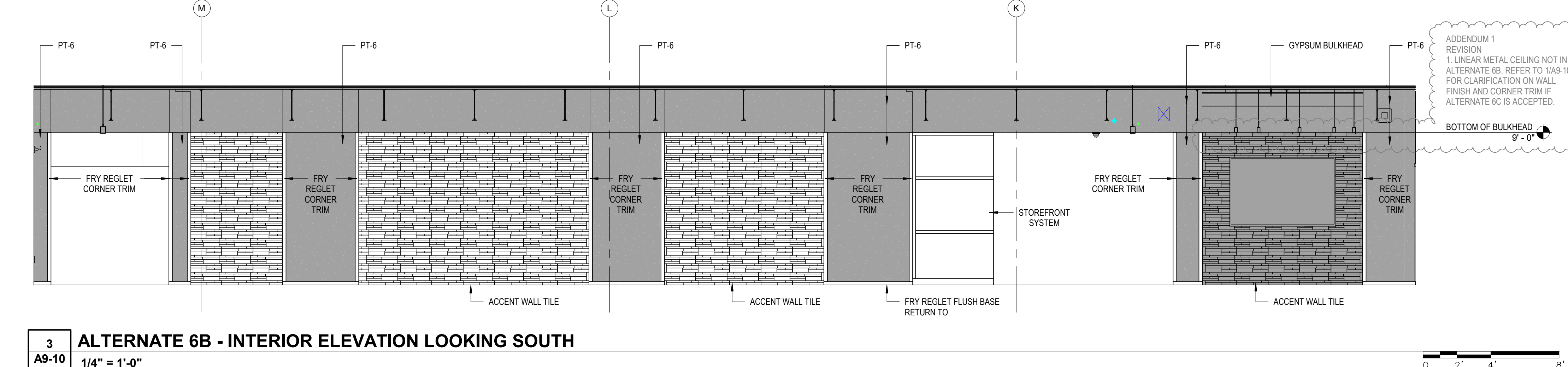
4 ALTERNATE 6C - REFLECTED CEILING PLAN
 A9-10 1/2" = 1'-0"



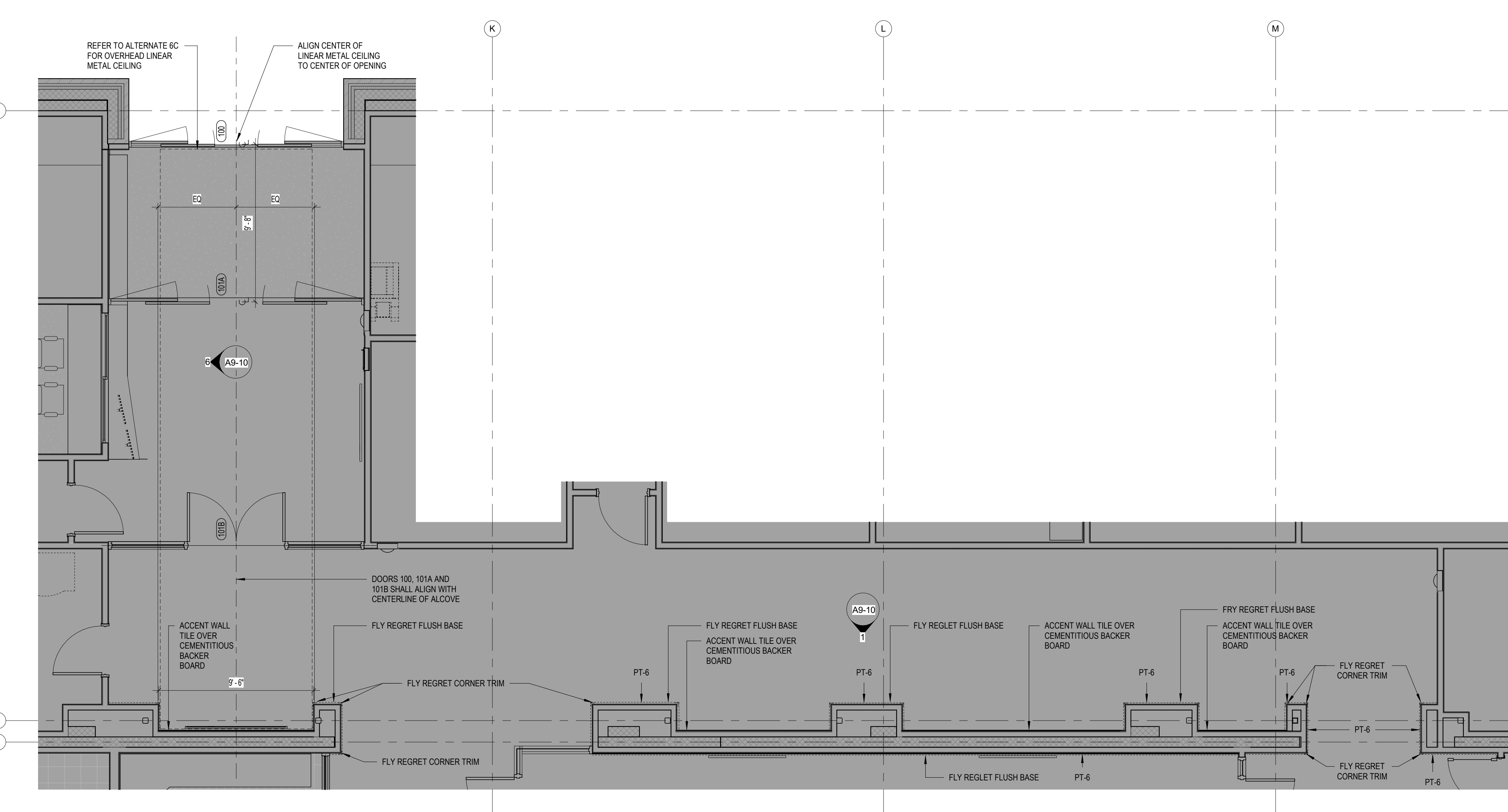
1 ALTERNATE 6C - INTERIOR ELEVATION LOOKING SOUTH
 A9-10 1/4" = 1'-0"



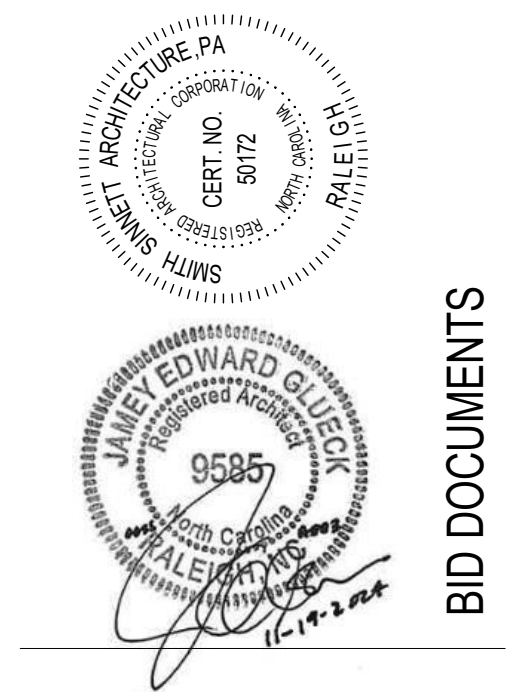
6 ALTERNATE 6C - WEST ELEVATION
 A9-10 1/4" = 1'-0"



3 ALTERNATE 6B - INTERIOR ELEVATION LOOKING SOUTH
 A9-10 1/4" = 1'-0"



2 ALTERNATE 6B - FLOORPLAN
 A9-10 1/4" = 1'-0"



The design of this building is the property of Smith Sinnett Architecture, P.A. The reproduction or use of this drawing without the written consent of the architect is prohibited. All drawings are the property of Smith Sinnett Architecture, P.A. and shall remain the property of the architect. Smith Sinnett Architecture, P.A. 2024
 THIS DRAWING IS FORWARDED TO BE PRINTED ON A 30" X 42" SHEET

Onslow County Senior Services Center Renovation
Onslow County Government
 4024 Richlands Hwy, Jacksonville, NC 28540

ID	DATE	DESCRIPTION
3	11/19/2024	Addendum 3
1	11/05/2024	Addendum 1

DRAWN BY: FA, NB, JP
 CHECKED BY: JEG
ALTERNATE 6B AND 6C - UPGRADED WALL AND CEILING FINISH - PLANS
 2021029 19 NOV. 2024



Progressive Design Collaborative, Ltd

3101 Poplarwood Court, Suite 320

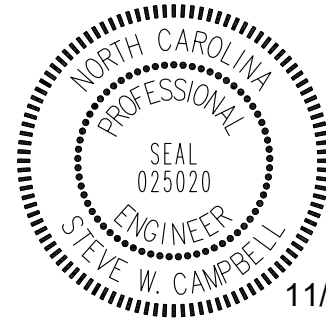
Raleigh, North Carolina 27604

919-790-9989

ADDENDUM 03 – PLUMBING

DATE: November 18, 2024

PROJECT: Onslow County Senior Services Center Renovation
PDC Project No. 22074



11/18/2024

This Addendum, applicable to the work designed below, shall be understood to be and is a change to the bid documents and shall be part of and included in the contract for the above referenced project. All General, Supplementary and Special Conditions, etc., as originally specified or as modified below shall apply to these items.

Changes to Plumbing Specifications:

1. Specification 22 40 00
 - a. Clarified Manufacturers under section 2.06.

END OF ADDENDUM 03 – PLUMBING

Attachments: Drawings: (As indicated above)



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SECTION 22 40 00
PLUMBING FIXTURES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A Flush valve water closets.
- B Wall hung urinals.
- C Lavatories.
- D Wall-hung, solid surface, multistation lavatory units.
- E All-in-one lavatory system.
- F Sinks.
- G Under-lavatory pipe supply covers.
- H Showers.
- I Bi-level, electric water coolers.
- J Mop sinks.

1.02 REFERENCE STANDARDS

- A ADA Standards - 2010 ADA Standards for Accessible Design; 2010.
- B ASHRAE Std 18 - Methods of Testing for Rating Drinking-Water Coolers with Self-Contained Mechanical Refrigeration; 2008 (Reaffirmed 2013).
- C ASME A112.6.1M - Floor-Affixed Supports for Off-the-Floor Plumbing Fixtures for Public Use; 1997 (Reaffirmed 2017).
- D ASME A112.18.1 - Plumbing Supply Fittings; 2018, with Errata.
- E ASME A112.18.9 - Protectors/Insulators for Exposed Waste and Supplies on Accessible Fixtures; 2011 (Reaffirmed 2022).
- F ASME A112.19.1 - Enamelled Cast Iron and Enamelled Steel Plumbing Fixtures; 2018.
- G ASME A112.19.2 - Ceramic Plumbing Fixtures; 2018, with Errata.
- H ASME A112.19.3 - Stainless Steel Plumbing Fixtures; 2022.
- I ASME A112.19.5 - Flush Valves and Spuds for Water Closets, Urinals, and Tanks; 2022.
- J ASSE 1070 - Performance Requirements for Water Temperature Limiting Devices; 2020.
- K ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2018b.
- L ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.
- M NSF 61 - Drinking Water System Components - Health Effects; 2022, with Errata.
- N NSF 372 - Drinking Water System Components - Lead Content; 2022.
- O UL (DIR) - Online Certifications Directory; Current Edition.

1.03 SUBMITTALS

- A Product Data: Provide catalog illustrations of fixtures, sizes, rough-in dimensions, utility sizes, trim, and finishes.
- B Manufacturer's Instructions: Indicate installation methods and procedures.
- C Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.
- D Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. Extra Faucet Washers: One set of each type and size.
 - 2. Extra Lavatory Supply Fittings: One set of each type and size.
 - 3. Extra Shower Heads: One of each type and size.
 - 4. Extra Toilet Seats: One of each type and size.

1.04 QUALITY ASSURANCE

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

1.05 DELIVERY, STORAGE, AND HANDLING

- A Accept fixtures on-site in factory packaging. Inspect for damage.

- B Protect installed fixtures from damage by securing areas and by leaving factory packaging in place to protect fixtures and prevent use.

1.06 WARRANTY

- A Provide five year manufacturer warranty for electric water cooler.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

- A Potable Water Systems: Provide plumbing fittings and faucets that comply with NSF 61 and NSF 372 for maximum lead content; label pipe and fittings.
- B Water Efficiency: EPA WaterSense label is required for all water closets, urinals, lavatory faucets, and showerheads.
- C Maximum Fixture or Faucet Supply Pressure: 60 psi unless stated otherwise.

2.02 REGULATORY REQUIREMENTS

- A Comply with applicable codes for installation of plumbing systems.
- B Comply with UL (DIR) requirements.
- C Perform work in accordance with local health department regulations.

2.03 FLUSH VALVE WATER CLOSETS

- A Water Closets:
 - 1. Vitreous china, ASME A112.19.2, floor mounted, siphon jet flush action, china bolt caps.
 - 2. Flush Valve: Exposed (top spud).
 - 3. Flush Operation: Sensor operated.
 - 4. Handle Height: 44 inches or less.
 - 5. Inlet Size: 1-1/2 inches.
 - 6. Trapway Outlet: 4 inch.
 - 7. Color: White.
 - 8. Manufacturers:
 - a. American Standard, Inc
 - b. Kohler Company
 - c. Zurn Industries, LLC
 - d. Sloan.
 - e. Substitutions: See Section 01 60 00 - Product Requirements.
- B Flush Valves:
 - 1. Valve Supply Size: 1 inch.
 - 2. Valve Outlet Size: 1-1/2 inches.
 - 3. Manufacturers:
 - a. American Standard, Inc
 - b. Sloan Valve Company:
 - c. Toto
 - d. Zurn Industries, LLC:
 - e. Substitutions: See Section 01 60 00 - Product Requirements.
 - 4. Manual Operated:
 - a. Type: ASME A112.18.1 or ASME A112.19.5; diaphragm type complete with vacuum breaker stops, and accessories.
 - b. Supplied Volume Capacity: 1.5 gal per flush.
- C Toilet Seats:
 - 1. Manufacturers:
 - a. American Standard, Inc; _____: www.americanstandard-us.com/#sle.
 - b. Bemis Manufacturing Company; _____: www.bemismfg.com/#sle.
 - c. Church Seat Company; _____: www.churchseats.com/#sle.
 - d. Zurn Industries, LLC; _____: www.zurn.com/#sle.

2. Plastic: Solid, white finish, elongated shape, open front, slow-closing hinged seat cover, extended back complete with self-sustaining hinges, and brass bolts with covers.
3. Plastic: Black finish, open front, extended back, self-sustaining hinge, brass bolts, with cover.

2.04 WALL HUNG URINALS

A Manufacturers:

1. American Standard, Inc
2. Kohler Company
3. Zurn Industries, LLC
4. Sloan.

B Vitreous china, ASME A112.19.2, wall hung with side shields and concealed carrier.

1. Consumption Volume: 1.0 gal per flush, maximum.
2. Flush Valve: Exposed (top spud).
3. Flush Operation: Sensor operated.
4. Trapway Outlet: Integral.
5. Supply Size: 3/4 inch.
6. Outlet Size and Location: 2 inches, bottom side.

C Flush Valves:

1. Manufacturers:
 - a. American Standard, Inc
 - b. Sloan Valve Company
 - c. Zurn Industries, LLC
2. Manual Operated:
 - a. Type: ASME A112.18.1 or ASME A112.19.5; diaphragm type, complete with vacuum breaker stops, and accessories.
 - b. Supplied Volume Capacity: 0.125 gal per flush.

D Urinal Carriers:

1. Manufacturers:
 - a. Jay R. Smith Manufacturing Company
 - b. JOSAM Company
 - c. Zurn Industries, LLC: ww
2. ASME A112.6.1M; cast iron and steel frame with tubular legs, lugs for floor and wall attachment, threaded fixture studs for fixture hanger, bearing studs.

2.05 LAVATORIES

A Manufacturers:

1. American Standard, Inc
2. Kohler Company
3. Zurn Industries, LLC

B Wall-Hung Basin:

1. Porcelain-Enamelled Cast Iron: ASME A112.19.1; white, rectangular basin with splash lip, front overflow, soap depression, and hanger. Size as indicated on drawings with 4-inch centerset spacing.
2. Carrier:
 - a. ASME A112.6.1M; cast iron and steel frame with tubular legs, lugs for floor and wall attachment, threaded studs for fixture hanger, bearing plate and studs.
 - b. Manufacturers:
 - 1) Jay R. Smith MFG. Co: www.jrsmith.com/#sle.
 - 2) JOSAM Company: www.josam.com/#sle.
 - 3) Zurn Industries, LLC; Z1231: www.zurn.com/#sle.

C Sensor Operated Faucet:

1. Spout Style: Standard.

2. Power Supply:
 - a. Wired: 6 VDC, field-wired into dedicated or common power supply.
 - b. Wireless:
 - 1) Battery: Replaceable alkaline or lithium type with 200,000 cycles, minimum.
 - 2) Light Cell: Photovoltaic or infra-red cell that transforms both sunlight and artificial light into electrical energy for use and battery charging.
 - 3) Low Battery Warning: Provide red or yellow colored indicator to light periodically at 30 days of remaining capacity and continuously 2 weeks prior to get fully discharged.
 3. Mixing Valve: None, single line for tempered water.
 4. Water Supply: 3/8 inch compression connections.
 5. Aerator: Vandal resistant, 0.5 gpm, laminar flow device.
 6. Finish: Polished chrome.
 7. Manufacturers:
 - a. American Standard, Inc: www.americanstandard-us.com/#sle.
 - b. Moen Incorporated; _____: www.moen.com/#sle.
 - c. Sloan Valve Company: www.sloanvalve.com/#sle.
 - d. Watts; _____: www.watts.com/#sle.
 - e. Zurn Industries, LLC; _____: www.zurn.com/#sle.
- D Thermostatic Mixing Valve:
1. ASSE 1070 listed with combination stop, strainer, and check valves, and flexible stainless steel connectors.
 2. Manufacturers:
 - a. Acorn Controls; _____: www.acorneng.com/#sle.
 - b. Cash Acme, a brand of Reliance Worldwide Corporation; _____: www.cashacme.com/#sle.
 3. Braided hot and cold water supply lines.
 4. Chrome plated 17 gauge, 0.0538 inch brass P-trap with clean-out plug and arm with escutcheon.
- E Lavatory Carrier:
1. Manufacturers:
 - a. Jay R. Smith Manufacturing Company; _____: www.jrsmith.com/#sle.
 - b. JOSAM Company; _____: www.josam.com/#sle.
 - c. Zurn Industries, LLC; Z1231EZ: www.zurn.com/#sle.
 2. ASME A112.6.1M; cast iron and steel frame with tubular legs, lugs for floor and wall attachment, threaded studs for fixture hanger, bearing plate and studs.

2.06 WALL-HUNG, SOLID SURFACE, MULTISTATION LAVATORY UNITS

- A Manufacturers:
1. Zurn Industries, LLC; Sundara Drift Handwashing System: www.zurn.com/#sle.
 2. Bradley.
 3. Sloan.
 4. **Acorn**
 5. **Substitutions: See Section 01 60 00 - Product Requirements.**
- B Description: Rectilinear, level-surface deck, seamless and integral elongated basin, with stainless steel enclosed pedestal cabinet.
- C Deck and Bowl Material: Fabricate from molded engineered stone material consisting of natural quartz, granite, and other minerals in a matrix of thermoset acrylic modified bio-based polyester resin and meeting requirements of IAPMO Z124.
- D Surface Burning Characteristics: Smoke developed index less than 50, and flame spread index less than 25, Class A, when tested in accordance with ASTM E84.
- E Number of Wash Stations: Three.
- F Unit Length: _____ inches.

- G Soap Dispenser:
- H Color: As selected by Architect from manufacturer's full line.
- I Faucet Drilling: 4 inch (100 mm) centerset drilling.
- J Access Panel: Stainless steel.
- K Support Frame: Wall-mounted, heavy gauge, stainless steel.
- L **Manufacturers:**

- 1. ~~Acorn Engineering Company; Corterra Solid Surface: www.acorneng.com/#sle.~~
- 2. ~~Sloan.~~
- 3. ~~Substitutions: See Section 01 60 00 Product Requirements.~~

2.07 SINKS

- A Manufacturers:
 - 1. American Standard, Inc; _____: www.americanstandard-us.com/#sle.
 - 2. Kohler Company; _____: www.kohler.com/#sle.
- B Single Compartment Bowl
 - 1. ASME A112.19.3; _____ by _____ by _____ inch outside dimensions 20 gauge, 0.0359 inch thick, Type 302 stainless steel, self rimming and undercoated, with ledge back drilled for trim.
 - 2. Drain: 3-1/2 inch crumb cup and tailpiece.
- C Kitchen Faucets:
 - 1. Manufacturers:
 - a. American Standard, Inc; _____: www.americanstandard-us.com/#sle.
 - 2. Single Handle Faucet with Three-Function Pulldown Spray Head:
 - a. Minimum Spout Height: 8 inch.
 - b. Type: Deck-mount, swivel faucet with mounting plate.
 - c. Spray Functions: Stream, full spray and pause at 1.8 gpm, maximum.
 - d. ASME A112.18.1, ADA Standards, and NSF 61 compliant assembly.
 - e. Materials: Ceramic disc-cartridge valve on brass body with polished chrome finish.

2.08 UNDER-LAVATORY PIPE SUPPLY COVERS

- A Manufacturers:
 - 1. Plumberex Specialty Products, Inc; _____: www.plumberex.com/#sle.
- B General:
 - 1. Insulate exposed drainage piping including hot, cold and tempered water supplies under lavatories or sinks per ADA Standards.
 - 2. Construction: 1/8 inch PVC with antimicrobial, antifungal and UV resistant properties.
 - a. Comply with ASME A112.18.9 for covers on accessible lavatory piping.
 - b. Comply with ICC A117.1.

2.09 SHOWERS

- A Manufacturers:
 - 1. American Standard, Inc; _____: www.americanstandard-us.com/#sle.
 - 2. Aqua Glass Corporation; _____: www.aquaglass.com/#sle.
 - 3. Kohler Company; _____: www.kohler.com/#sle.
- B Shower Trim:
 - 1. Single Handle: ASME A112.18.1; lever-handle operated, pressure balanced mixing valve with integral service stops, bent shower arm with adjustable spray ball joint shower head with maximum flow, and escutcheon.

2.10 BI-LEVEL, ELECTRIC WATER COOLERS

- A Manufacturers:
 - 1. Elkay Manufacturing Company; _____: www.elkay.com/#sle.
 - 2. Haws Corporation; _____: www.hawesco.com/#sle.
 - 3. Oasis International; _____: www.oasiscoolers.com/#sle.

- B Water Cooler: Bi-level, electric, mechanically refrigerated; surface mounted, ADA compliant; stainless steel top, vinyl on steel body, elevated anti-squirt bubbler with stream guard, automatic stream regulator, push button, mounting bracket; integral air cooled condenser and stainless steel grille.
 - 1. Capacity: 8 gph of 50 degrees F water with inlet at 80 degrees F and room temperature of 90 degrees F, when tested in accordance with ASHRAE Std 18.
 - 2. Electrical: 115 VAC, 60 Hertz compressor, 6 foot cord and plug for connection to electric wiring system including grounding connector.
- C Bottle Filler: Materials to match fountain.

2.11 MOP SINKS

- A Manufacturers:
 - 1. Acorn Engineering Company; _____: www.acorneng.com/#sle.
 - 2. Just Manufacturing Company; _____: www.justmfg.com/#sle.
 - 3. Zurn Industries, LLC; _____: www.zurn.com/#sle.
- B Accessories:
 - 1. 5 feet of 1/2 inch diameter plain end reinforced plastic hose.
 - 2. Hose clamp hanger.
 - 3. Mop hanger.

2.12 HOSE BIB BOXES

- A Manufacturers:
 - 1. Metcraft Industries, Inc; _____: metcraftindustries.com/#sle.
- B Material: 316 stainless steel.
- C Finish: Satin.
- D Mount in wall fully recessed.
- E Provide with NPT PVC ball valves and fittings.
- F Provide with internal hose drain bracket and waste outlet.

PART 3 EXECUTION

3.01 EXAMINATION

- A Verify that walls and floor finishes are prepared and ready for installation of fixtures.
- B Verify that electric power is available and of the correct characteristics.
- C Confirm that millwork is constructed with adequate provision for the installation of counter top lavatories and sinks.

3.02 PREPARATION

- A Rough-in fixture piping connections in accordance with minimum sizes indicated in fixture rough-in schedule for particular fixtures.

3.03 INSTALLATION

- A Install each fixture with trap, easily removable for servicing and cleaning.
- B Provide chrome-plated rigid or flexible supplies to fixtures with loose key stops, reducers, and escutcheons.
- C Install components level and plumb.
- D Install and secure fixtures in place with wall supports and bolts.
- E Solidly attach water closets to floor with lag screws. Lead flashing is not intended to hold fixture in place.

3.04 INTERFACE WITH WORK OF OTHER SECTIONS

- A Review millwork shop drawings. Confirm location and size of fixtures and openings before rough-in and installation.

3.05 ADJUSTING

- A Adjust stops or valves for intended water flow rate to fixtures without splashing, noise, or overflow.

3.06 CLEANING

- A Clean plumbing fixtures and equipment.

3.07 PROTECTION

- A Protect installed products from damage due to subsequent construction operations.

Onslow County Senior Services Renovation

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- B Do not permit use of fixtures by construction personnel.
- C Repair or replace damaged products before Date of Substantial Completion.

END OF SECTION 22 40 00



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ADDENDUM 03 – MECHANICAL

DATE: November 18, 2024

PROJECT: Onslow County Senior Services Center Renovation
PDC Project No. 22074



11/18/2024

This Addendum, applicable to the work designed below, shall be understood to be and is a change to the bid documents and shall be part of and included in the contract for the above referenced project. All General, Supplementary and Special Conditions, etc., as originally specified or as modified below shall apply to these items.

Changes to Mechanical Drawings:

1. Drawing M2-03
 - a. Clarified condensate piping on roof.

Changes to Mechanical Specifications:

1. Specification 23 09 23.03
 - a. Removed preferred alternate
 - b. Added Trane as an acceptable manufacturer

END OF ADDENDUM 03 – MECHANICAL

Attachments: Drawings: (As indicated above)



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SECTION 23 09 23.03
BAS DIRECT DIGITAL CONTROL SYSTEM

PART 1 - GENERAL

1.01 RELATED DOCUMENTS:

- A The requirements of the General and Special Conditions and Contract Requirements - Division 0 and Division 1 apply to all Work under this Section.
- B The BAS shall be capable of total integration of the facility infrastructure systems with user access to all system data either locally over a secure Intranet within the building or by remote access by a standard Web Browser over the Internet. This shall include HVAC control, energy management, alarm monitoring, trending, reporting and maintenance management functions related to normal building operations as indicated on the drawings or elsewhere in this specification.

1.02 DESCRIPTION OF WORK:

- A Open, Interoperable, Integrated Architecture:
- B The intent of this specification is to provide a peer-to-peer networked, stand-alone, distributed control system with the capability to integrate both the ANSI/ASHRAE Standard 135-2012 BACNet technology communication protocols in one open, interoperable system.
- C The supplied computer software shall employ object-oriented technology (OOT) for representation of all data and control devices within the system. In addition, adherence to industry standards including ANSI / ASHRAE™ Standard 135-2012, BACNet or LONMark to assure interoperability between all system components is required. For each LonWorks device that does not have LonMark certification, the device supplier must provide an XIF file for the device. For each BACNet device, the device supplier must provide a PICS document showing the installed device's compliance level. Minimum compliance is Level 3; with the ability to support data read and write functionality. Physical connection of BACNet devices shall be BACnet/IP via or Master Slave/Token Passing (MS/TP) via RS-485.
- D All components and controllers supplied under this contract shall be true "peer-to-peer" communicating devices. Components or controllers requiring "polling" by a host to pass data shall not be acceptable.
- E The supplied system must incorporate the ability to access all data using Java enabled browsers without requiring proprietary operator interface and configuration programs. An Open Database Connectivity (ODBC) or Structured Query Language (SQL) compliant server database is required for all system database parameter storage. This data shall reside on a supplier-installed server for all database access. Systems requiring proprietary database and user interface programs shall not be acceptable.
- F A hierarchical topology is required to assure reasonable system response times and to manage the flow and sharing of data without unduly burdening the customer's internal intranet network. Systems employing a "flat" single tiered architecture shall not be acceptable.

1.03 LOCAL AREA NETWORKS:

- A The Local Area Network (LAN) shall be either a 10 or 100 Megabits/sec Ethernet network supporting BACNet, Java, XML, HTTP, and CORBA IIOP for maximum flexibility for integration of building data with enterprise information systems and providing support for multiple SNC's and user workstations.
- B Local area network minimum physical and media access requirements:
 - 1. Ethernet; IEEE standard 802.3
 - 2. Cable; 10 Base-T, UTP-8 wire, category 6
 - 3. Minimum throughput; 10 Mbps, with ability to increase to 100 Mbps

1.04 ADDITIONAL GENERAL REQUIREMENTS FOR BAS:

- A All wiring, conduit, and panels for all BAS temperature controls.
- B The 120 volt power required for each stand-alone BAS controller shall be provided by the electrical contractor.
- C Perform all wiring in accordance with all local and national codes.
- D Surge transient protection shall be incorporated in the design of the system to protect electrical components in all system components as described below under "General Product Description."

- E Programming modifications necessary to fine-tune sequences during commissioning of systems at no additional cost to the owner as well as throughout the warranty period.
- F After a power failure and upon power restoration, the BAS initiates automatic sequential restart of equipment based on current program time and program requirements without operator intervention.
- G Provide multiple controllers to prevent a single-failure catastrophe. Failure of any single controller does not affect other controllers.
- H Mount all control devices inside of a UL-listed steel enclosure panel, with hinged locking cover and key locking latch. Pre-wire electrical components mounted in the cabinet to numbered terminal strips within the cabinet. All control panels shall be assembled in a UL –508A panel shop and bear a UL label.

1.05 WIRING AND CONTROLS:

- A Mechanical Contractor shall provide taps and isolation valves as necessary for pipe-mounted control devices furnished by this Section.
- B Control Contractor will be responsible for the installation and wiring of temperature controls, control interlock wiring, electrical controls and devices in the temperature control system.

1.06 QUALITY ASSURANCE AND STANDARDS:

- A Materials and equipment shall be the cataloged products of manufacturers regularly engaged in production and installation of integrated control systems and shall be manufacturer’s latest standard design that complies with the specification requirements.
- B All products used in this project installation shall be new and currently being manufactured. This installation shall not be used as a test site for any new products. Spare parts shall be available for at least five years after completion of this contract.
- C Install system using competent workmen who are fully trained in the installation of integrated control systems.
- D Single source responsibility of supplier shall be the complete installation and proper operation of the BAS and control system and shall include debugging and proper calibration of each component in the entire system.
- E Supplier shall have an in-place support facility within 100 miles of the site with technical staff, spare parts inventory and all necessary test and diagnostic equipment.
- F The BAS Contractor and manufacturer representative shall support the installed system for a minimum of 1 year. The support shall provide full material warranty of controllers.
- G All electronic equipment shall conform to the requirements of FCC Regulation, Part 15, Section 15, governing Radio Frequency Electromagnetic Interference and be so labeled.
- H BAS shall comply with UL 916 and be so listed at the time of bid.
- I Design and build all system components to be fault-tolerant.
 - 1. Satisfactory operation without damage at 110% and 85% of rated voltage and at plus 3-Hertz variation in line frequency.
 - 2. Static, transient and short-circuit protection on all inputs and outputs.
 - 3. Protect communication lines against incorrect wiring, static transients and induced magnetic interference.
 - 4. Network-connected devices to be A.C. coupled or equivalent or that any single device failure will not disrupt or halt network communication.
 - 5. All real time clocks and data file RAM to be battery-backed for a minimum 72 hours and include local and system low battery indication.
 - 6. All programs shall retain their memory for a minimum of 7 days upon loss of power.
- J Comply with NFPA 90A, Standard for Installation of Air Conditioning and Ventilating Systems.
- K Provide wiring in accordance with NEC requirements.
- L Upon request (not required as part of the base submittal) Building Automation System Contractors desiring to provide this system must submit four copies of their qualifications in the following format:
 - 1. Experience and Qualifications:

- a. Local Office:
 - 1) Duration of continuous service
 - 2) Organization
 - 3) Staff
 - 4) Experience
 - 5) Spare parts
 - 6) Test equipment
 - 7) Software development facility
 - 8) Training
- (a) Related Experience:
 - (1) Temperature controls
 - (2) Building automation
 - (3) Computerized energy control
 - (4) Direct digital control
 - (5) Similar jobs

1.07 SUBMITTALS:

- A Product Data: Submit 4 copies of manufacturer's technical product data for each control device furnished. Indicate dimensions, capacities, performance, electrical characteristics, material finishes; also include installation and start-up instructions.
- B Shop Drawings: Submit 4 copies of shop drawings for each control system, containing at least the following information:
 - 1. Schematic flow diagram of system showing fans, pumps, coils, dampers, valves, control devices and all interconnections between devices.
 - 2. Indicate all required electrical wiring. Clearly differentiate between portions of wiring that are factory-installed and portions to be field-installed.
 - 3. Written description of sequence of operation.

1.08 DELIVERY, STORAGE AND HANDLING

- A Provide equipment and control devices in factory shipping carton. Maintain in cartons while shipping, storing and handling as required to prevent equipment damage and to keep dirt and moisture from equipment. Store equipment and materials inside and protect from weather.

PART 2 PRODUCT

2.01 MANUFACTURERS:

- A Only temperature control systems by the following manufacturers are acceptable. Only the specific system listed for a particular manufacturer is acceptable.
 - 1. Alerton
 - 2. DisTech
 - 3. Honeywell, Tridium WEBS AX/Excel 5000, Inc. (~~Preferred Alternate~~)(ADD 02)
 - 4. Schneider Electric, I/A Series Niagara AX
 - 5. ABB Cylon
 - 6. Vykon
 - 7. *Trane (ADD 02)*

2.02 GENERAL PRODUCT DESCRIPTION:

- A The BAS shall consist of the following components:
 - 1. Application Specific Controllers (ASC)
 - 2. Programmable Equipment Controllers (PEC)
 - 3. System Network Controllers (SNC)
 - 4. Operator Workstation (OWS)
 - 5. Lighting Control Panels (LCP)

2.03 APPLICATION SPECIFIC CONTROLLER (ASC):

- A These controllers are designed to control and operate specific types of unitary equipment (VAV boxes, heat pumps, unit ventilators, fan coils, etc.).
- B The controllers can be configurable (application program fixed for the type of equipment), or they can be fully programmable.
- C The controllers do need to be capable of peer-to-peer communication.
- D The following communication protocols will be acceptable:
 - 1. BACNET

2.04 PROGRAMMABLE EQUIPMENT CONTROLLER (PEC):

- A These controllers are designed to control and operate large air handling units and central plant equipment (large VAV air handling units, chilled water systems, heat pump fluid loops, etc.).
- B These controllers must be fully programmable to meet the unique requirements of the systems they control.
- C The controllers need to be capable of peer-to-peer communication.
- D The following communication protocols will be acceptable:
 - 1. BACNET

2.05 SYSTEM NETWORK CONTROLLERS (SNC):

- A These controllers are designed to manage communications between the programmable equipment controllers (PEC) and application specific controllers (ASC) which are connected to its communications trunks, manage communications between itself and other system network controllers (SNC) and with any operator workstations (OWS) that are part of the BAS, and perform control and operating strategies for the system based on information from any controller connected to the BAS.
- B The controllers must be fully programmable to meet the unique requirements of the facility it must control.
- C The controllers must be capable of peer-to-peer communications with other SNC's and with any OWS connected to the BAS, whether the OWS is directly connected, connected via modem or connected via the Internet.
- D The communication protocols utilized for peer-to-peer communications between SNC's will be Niagara AX, BACnet TCP/IP or SNMP. Use of a proprietary communication protocol for peer-to-peer communications between SNC's is not allowed.
- E The SNC shall be capable of executing application control programs to provide:
 - 1. Calendar functions
 - 2. Scheduling
 - 3. Trending
 - 4. Alarm monitoring and routing
 - 5. Time synchronization
 - 6. Integration of third party equipment protocols.
 - 7. Network management functions for all SNC, PEC and ASC based devices
 - a. The SNC must provide the following hardware features as a minimum:
 - 1) One Ethernet Port-10/100 Mdps
 - 2) One RS-232/485 port
 - 3) Battery Backup
 - 4) Flash memory for long term data backup (If battery backup or flash memory is not supplied, the controller must contain a hard disk with at least 1 gigabyte storage capacity)
 - b. The SNC or OWS shall support standard Web browser access via the intranet/Internet.
 - c. The SNC or OWS shall provide alarm recognition, storage, routing, management and analysis to supplement distributed capabilities of equipment or application specific controllers.
 - d. The SNC or OWS shall be able to route any alarm condition to any defined user location whether connected to a local network or remote via dial-up, telephone connection, or wide-area network.
 - 1) Alarm generation shall be selectable for annunciation type and acknowledgement requirements including but not limited to:

- (a) Alarm,
- (b) Return to normal,
- (c) To default.
 - (1) Alarms shall be annunciated in any of the following manners as defined by the user:
 - (2) Screen message text,
 - (3) Email of complete alarm message to multiple recipients.
 - (4) Pagers via paging services that initiate a page on receipt of email message.
 - (5) Graphics with flashing alarm object(s).
 - (6) The following shall be recorded by the SNC for each alarm (at a minimum):
 - (7) Time and date
 - (8) Equipment (air handler #, accessway, etc.)
 - (9) Acknowledge time, date, and user who issued acknowledgement.

2.06 LIGHTING CONTROL PANEL (LCP):

- A LCPs shall be assembled in a UL-508A panel shop and bear a UL-508A label.
- B BAS contractor shall supply LCPs as required to control interior and exterior lighting circuits as shown on the electrical plans. Each LCP shall include latching relays and contactors as required. Panels shall be pre-assembled with terminal blocks to accept lighting circuits.
- C Lighting circuits shall be controlled by a time of day schedule. Activating an override switch during unoccupied hours shall turn the associated lighting circuit on for two hours. After the expiration of two hour override, the circuit shall be turned off. Activating the override switch a second time, prior to the two hour timed expiration shall turn the associated circuit off.
- D Wiring from the LCP terminal blocks to the electrical panels and lights shall be by Division 26.
- E BAS contractor shall provide override switches, face plates (match Division 26 specifications), low voltage wiring, and programming. Boxes and raceway associated with override switches shall be by Division 26.
- F BAS contractor shall provide all graphics and programming as necessary to enable the scheduling and override of lighting zones and circuits by the system operator through the Operator Workstation.

2.07 PRODUCTS:

- A Provide electronic building automation system products with all major components produced by one manufacturer for a complete and operable system.
- B All instrumentation devices shall be delivered to the site complete with documentation covering unpacking, assembly, installation, start-up, calibration and field service. Product specifications shall also be included.
- C All controllers on all levels shall function with power supply tolerance of -15% to +20% of the nominal input voltage without the need for external power conditioners.
- D Provide secure internet access for remote communication to the BAS.

2.08 APPLICATION SPECIFIC CONTROLLERS (ASC):

- A Application Specific Controllers (ASC's) shall be standalone EEPROM based configured to perform the sequences specified, and with I/O selected for the application. All unitary DDC controllers shall support the LonMark Functional Profile or be BACnet listed for the given application. ASC's shall be tested and listed under UL916 for computing devices. ASC enclosures shall be flame retardant compact plastic conforming to UL94-V5 for plenum mounting or plated steel. Each ASC shall be provided with face mounted LED type annunciation to continually display its operational mode: power, normal, or in an alarm state. As an alternative to the face mounted integral LED, the control contractor shall provide relay driven pilot lights mounted at the ASC location, which shall provide the specified annunciation. ASC's shall be configured for DIN rail mounting using industry standard clip on adapters or direct panel mounted. The controller shall be programmable and configurable.
 - 1. Input/Output Module
 - a. Provide a remote input/output module that connects sensors and actuators onto the field bus network for use by the NAC, ILC and ASC DDC Controllers. I/O Device shall support LonMark

or BACnet standard network communication technology for controller-to-controller communications. I/O Device shall have extended operating temperature rating from -40F to +150F so Device can be mounted directly in wiring cabinet of monitored appliances.

- 1) Fan Coil Controller
 - (a) Provide a stand alone DDC Fan Coil Controller for common two pipe or four pipe fan coil units featuring preprogrammed heating and cooling control algorithms for single or up to three fan speed applications. Controller shall use BACnet communication technology for field bus and shall utilize the BACnet Fan Coil Unit (FCU) communication profile for interoperability with similar protocol third party devices in network applications. Controllers shall have integral transformers and fan speed relays directly wired to line voltage power 115Vac and 230Vac. Controller application software shall include a setpoint reset for energy demand limit control. Separate unoccupied heating and cooling setpoints shall be provided. A standby feature shall be provided to reset the occupied temperature set point back to a user definable limit based on status from an auxiliary device, such as an occupancy sensor or window contact. Controller shall include a temperature wall module connection that may be used in any applications where the wall module must: sense temperature, control set point temperature, control Occ/Unocc or control fan speed. In addition to internal I/O selected for the application, controller shall also support distributed I/O from the network.

2.09 PROGRAMMABLE EQUIPMENT CONTROLLERS (PEC):

- A HVAC control shall be accomplished using LonMark or BACnet based devices where the application has a LonMark or BACnet profile defined. Where LonMark or BACnet devices are not available for a particular application, devices based on LonWorks or BACnet shall be acceptable. For each LonWorks or BACnet device that does not have LonMark or BACnet certification, the device supplier must provide an XIF file for the device. The controller platform shall provide options and advanced system functions, programmable and configurable that allow standard and customizable control solutions required in executing the "Sequence of Operation".
- B All PECs shall be application programmable and shall at all times maintain their LonMark or BACnet certification. All control sequences within or programmed into the ILC shall be stored in non-volatile memory, which is not dependent upon the presence of a battery to be retained.
- C The PECs shall communicate with the SNC at a baud rate of not less than 78.8K baud. The PEC shall provide LED indication of communication and controller performance to the technician, without cover removal.
- D Each PEC shall have expansion ability to support additional I/O requirements through the use of remote input/output modules

2.10 ADVANCED UNITARY CONTROLLERS:

- A The advanced unitary controller (AUC) platform shall be designed specifically to control HVAC – ventilation, filtration, heating, cooling, humidification, and distribution. Equipment includes: VAV air handlers, heat pumps, and fan coils. The controller platform shall provide options and advanced system functions, programmable and configurable that allow standard and customizable control solutions required in executing the "Sequence of Operation".
- B Minimum Requirements:
 1. The controller shall be fully programmable with full functionality on the OWS.
 - a. Support downloads to the controller
 - b. Support uploads from the controller
 - c. Support simulation/debug mode of the controller.
 - d. Maintain native GUI.
 - e. Native function-block programming

- 1) The controller shall be capable of either integrating with other devices or stand-alone operation.
- 2) The controller shall have an FTT transformer-coupled communications port interface for common mode-noise rejection and DC isolation.
- 3) The controller shall have an internal time clock with the ability to automatically revert from a master time clock on failure.
 - (a) Operating Range: 24 hour, 365 day, multi-year calendar including day of week and configuration for automatic day-light savings time adjustment to occur on configured start and stop dates.
 - (b) Accuracy: ± 1 minute per month at 77° F (25° C).
 - (c) Power Failure Backup: 24 hours at 32° to 122° F (0° to 50° C).
- 4) The controller shall have Significant Event Notification, Periodic Update capability, and Failure Detect when network inputs fail to be detected within their configurable time frame.
- 5) The controller shall have an internal DC power supply to power external sensors.
 - (a) Power Output: 20 VDC $\pm 10\%$ at 75 mA.
- 6) The controller shall have a visual indication (LED) of the status of the device:
 - (a) Controller operating normally.
 - (b) Controller in process of download.
 - (c) Controller in manual mode under control of software tool.
 - (d) Controller lost its configuration.
 - (e) No power to controller, low voltage, or controller damage.
 - (f) Processor and/or controller are not operating.
- 7) The minimum controller Environmental ratings
 - (a) Operating Temperature Ambient Rating: -40° to 150° F (-40° to 65.5° C).
 - (b) Storage Temperature Ambient Rating: -40° to 150° F (-40° to 65.5° C).
 - (c) Relative Humidity: 5% to 95% non-condensing.
- 8) The controller shall have the additional approval requirements, listings, and approvals:
 - (a) UL/cUL (E87741) listed under UL916 (Standard for Open Energy Management Equipment) with plenum rating.
 - (b) CSA (LR95329-3) Listed
 - (c) Meets FCC Part 15, Subpart B, Class B (radiated emissions) requirements.
 - (d) Meets Canadian standard C108.8 (radiated emissions).
 - (e) Conforms requirements European Consortium standard EN 61000-6-1; 2001 (EU Immunity)
 - (f) Conforms requirements European Consortium standard EN 61000-6-3; 2001 (EU Emission)
- 9) The controller housing shall be UL plenum rated mounting to either a panel or DIN rail (standard EN50022; 7.5mm x 35mm).
- 10) The controller shall have a mix of digital inputs (DI), digital Triac outputs (DO), analog outputs (AO), and universal inputs (UI).
 - (a) Analog outputs (AO) shall be capable of being configured as digital outputs (DO)
 - (b) Input and Output wiring terminal strips shall be removable from the controller without disconnecting wiring.
 - (c) Input and Output wiring terminals shall be designated with color coded labels.
 - (d) Universal inputs shall be capable of being configured as binary inputs, resistive inputs, voltage inputs (0-10 VDC), or current inputs (4-20 mA)
- 11) The controller shall provide for "user defined" Network Variables (NV) for customized configurations and naming.
 - (a) The controller shall support 62 Network Variables with a byte count of 31 per variable.

- (b) The controller shall support 1,922 separate data values.
- 12) The controller shall provide “continuous” automated loop tuning with an Adaptive Integral Algorithm Control Loop.
- 13) The controller platform shall have standard HVAC application programs that are modifiable to support both the traditional and specialized “sequence of operations” as outlined in Section 4.
 - (a) Discharge air control and low limit
 - (b) Pressure-dependent dual duct without flow mixing.
 - (c) Variable air volume with return flow tracking.
 - (d) Economizer with differential enthalpy.
 - (e) Minimum airflow coordinated with CO2.
 - (f) Unit ventilator cycle (1, 2, 3) 2-pipe.
 - (g) Unit ventilator cycle (1, 2, 3) 2-pipe with face/bypass.
 - (h) Unit ventilator cycle (1, 2, 3) 4-pipe.
 - (i) Unit ventilator cycle (1, 2, 3) 4-pipe with EOC valve.

2.11 DUCT MOUNTED SMOKE DETECTORS:

- A General: Smoke detectors shall be furnished by the electrical contractor and installed by the mechanical contractor. Connection to the fire alarm system shall be by the Electrical Contractor. Verify proper compliance with the requirements of NFPA 90A.

2.12 PORTABLE OPERATOR’S WORKSTATION (LAPTOP COMPUTER)

- A Provide a laptop computer with the following specifications for the owner with all controls software preinstalled.
 - 1. Intel® Core™ i7-3612QM processor (12M Cache, up to 3.8 GHz)
 - 2. Windows® 11, 64Bit, English
 - 3. 17.3" High Definition+ (900p) LED Display with Truelife
 - 4. 16GB Dual Channel DDR3 SDRAM at 1600MHz
 - 5. 2TB 5400 RPM SATA Hard Drive
 - 6. Intel® HD Graphics 4000
 - 7. 90 days Premium Phone Support + 1 Year In-Home Service after Remote Diagnosis

2.13 SOFTWARE:

- A General:
 - 1. Unless previously provided, one licensed copy of controller programming software shall be provided to owner.
 - 2. Furnished as an integral part of each controller and not dependent on any higher level computer.
 - 3. Discreet programs that can be implemented in any combination to provide the proper control requirements by providing the necessary input sensors, programming the required sequence, and executing proper commands to the output devices.
 - 4. Analog data points may be assigned high and low limits for use as alarm and control settings
 - 5. Application Software:
 - a. Establish sequences for individual control systems.
 - b. Includes items such as sensor location, set-point, compensation start point, proportional band, direct or reverse action, actuator maximum and minimum position, PI output, P output, PID output, and output location assignment.
 - c. Written by the supplier incorporating standard software as well as all necessary subroutines to provide the specified control operation.

2.14 STANDARD SOFTWARE:

- A ROM resident and addressable through the programmer’s terminal with RAM resident parameters modifiable through the terminal at the appropriate programming level with the proper password.
- B Optimum Start:

1. Minimize total energy consumption in the daily start-up of each heating/cooling system by calculating a start time for each system which will bring its respective zone temperature to the boundary of the comfort zone at the time of occupancy start.
2. Execute one optimum start command per day for each system controlled from the program.
3. Automatically adjusts operation based on previous start-ups.
 - a. Load Reset: Control heating and/or cooling to minimize energy use in the building by resetting heating and cooling supply temperatures only to values necessary to maintain comfort conditions.
 - b. Night Cycle: Protect the building against specified temperature extremes during unoccupied hours with a minimum expenditure of energy by restarting systems during off periods to keep the space temperature within preprogrammed limits in heating or cooling applications.
 - c. Optimum Stop: Minimize total energy consumption in the daily shutdown of each heating/cooling system by shutting down the system as much before the end of occupancy as possible, but not so early as to let the temperature drift out of the specified comfort range.
 - d. Reduced Occupancy: Provide minimal comfort conditions to occupants who must be in the building at other than normal occupancy hours by amending the control sequences for the system and allowing manual zone input.
 - e. Occupied/Unoccupied: The BAS system provides for time-of-day, day-of-week time scheduling of the systems. Based on the time-of-day and the day-of-week the BAS system will index the systems to occupied or unoccupied.
 - f. Partial Occupancy: Allow use of a partially completed building and mechanical system to provide early move-in for the building owner through selective control of on-line mechanical equipment to provide minimum comfort conditions for isolated sections of the building. Additional control is incorporated as the building is completed with minimum disturbance to existing occupants.

2.15 CUSTOM SOFTWARE:

- A Provide a control language for user programming of HVAC applications designed to accomplish transition from hardware control system design to software-based control system design.
- B Allow the user to program custom control sequences directly into microcomputer memory at the SNC level.
- C User selected input sensor data, parameters, and algorithms can be entered into the custom software program, and the result of the algorithms used to position actuators.

2.16 SOFTWARE LICENSING:

- A Software licensing shall give the owner the capability to control their system and determine which contractors can bid and engineer their system.
- B It shall be possible to ensure the owner can prevent unauthorized parties from accessing the system for engineering changes.
- C Software licensing shall have no restrictions on which brand of controller tools can interact with the system.
- D Software licensing shall have the ability to individually manage authorized and independent parties.

2.17 REPORTS:

- A User programmed to generate custom designed reports.
- B Any information being monitored is available for reports.
- C Provide initially programmed reports as described in the sequence of operation.
- D Data Storage: Store any data available to the control system at specified intervals for user-specified periods of time. Controller databases will be backed up on CD-ROM and given to the owner before the job is complete.

PART 3 EXECUTION

3.01 INSPECTION:

- A Examine areas and conditions under which BAS systems are to be installed.
- B Do not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to installer.

- C Installation - General:
- D Install systems and materials in accordance with manufacturer's instructions in a neat workmanlike manner.
- E Coordinate with other trades on the project as the work progresses so that each will be aware of the extent of all work. Carefully plan all work and check for interferences before installation. No extras will be allowed for changes caused by failure to check for interferences.
- F Provide structural supports as required for panels and control devices.
- G Unless shown or specified otherwise, mount bottom of room sensors at 5'-0" above floor.
- H Supervise installation of all automatic control valves and separable wells for immersion elements.
- I Supervise installation of all control dampers.
- J Install metering devices away from bends and elbows with minimum upstream and downstream straight distances per manufacturer's recommendations and as shown on Drawings.

3.02 CONTROL WIRING:

- A Install color-coded control wiring without splices between terminal points in accordance with National Electrical Code.
- B Install circuits over 25 volts with color-coded No. 12 or 14.
- C Install circuits under 25 volts with color-coded cable as recommended and approved by the manufacturer. All cable used to be plenum rated.
- D Within walls and inside mechanical rooms, install low voltage circuits in electrical metallic conduit or other suitable raceway. Where located above ceilings, plenum rated cable installed in cable tray or grouped and suspended with J-hooks may be used.

3.03 TESTING:

- A When installation of the control system is complete, calibrate equipment and verify transmission media operation before the system is placed on-line.
- B Provide a cross check of each control point within the control system by making a comparison between the control command and the field-controlled device.
- C Replace any work found defective. After replacement, repeat test.

3.04 START-UP AND DEMONSTRATION:

- A After completion and testing of the installation, regulate, adjust and service as necessary all control devices in the systems, placing each item in complete and proper operation.
- B Demonstrate that all systems are operable from local controls in the specified failure mode upon electronic control system failure or loss of power.
- C Complete all commissioning requirements as specified elsewhere, as applicable to this scope of work.

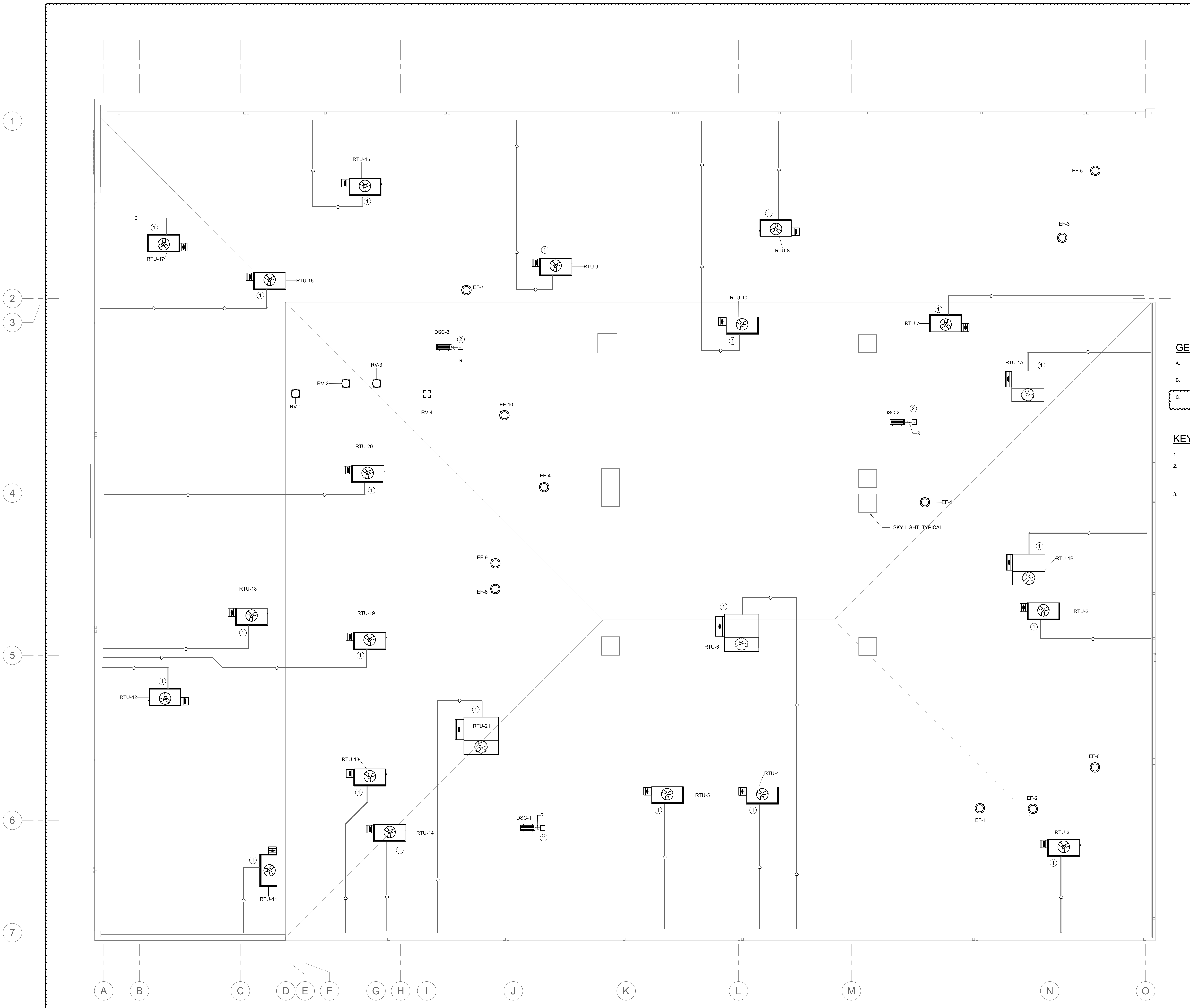
3.05 INSTRUCTION:

- A Provide the services of manufacturer's technical personnel for 8 hours of instruction to Owner's personnel in the operation, maintenance and programming of the control system. Orient the training specifically to the system installed rather than a general training course.
- B Provide training manuals, equipment and material required for classroom training.
- C Training to include the following items:
 - 1. Operation of equipment
 - 2. Programming
 - 3. Diagnostics
 - 4. Failure recovery procedures
 - 5. Alarm formats (where applicable)
 - 6. Maintenance and calibration
 - 7. Trouble shooting, diagnostics, and repair instructions

END OF SECTION 23 09 23 23 09 23.03

ID	DATE	DESCRIPTION
2	11/19/2024	ADDENDUM 3

DRAWN BY: JAV
CHECKED BY: SWC
ROOF PLAN



GENERAL NOTES:

- A. ALL EQUIPMENT SHALL BE LOCATED A MINIMUM OF 10 FT FROM ROOF EDGE.
- B. MAINTAIN 10 FT BETWEEN OUTSIDE AIR INTAKES AND ALL EXHAUST TERMINATIONS AND PLUMBING VTRs.
- C. PIPE CONDENSATE INDIVIDUALLY FROM EACH UNIT TO NEAREST GUTTER.

KEYNOTES:

- 1. EXTEND CONDENSATE TO NEAREST ROOF GUTTER.
- 2. REFRIGERANT PIPING DOWN TO INDOOR UNIT. PROVIDE LINE SET ROOF PENETRATION HOUSING RATED FOR HIGH WIND CONDITION. CYCLONE MODEL BY RPH OR EQUIVALENT.
- 3. UNIT AND 10' OF SUPPLY AND RETURN DUCTWORK IS IN BASE BID.

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

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Progressive Design Collaborative, Ltd

3101 Poplarwood Court, Suite 320

Raleigh, North Carolina 27604

919-790-9989

ADDENDUM 03 – ELECTRICAL

DATE: November 18, 2024

PROJECT: Onslow County Senior Services Center Renovation
PDC Project No. 22074



11/18/2024

This Addendum, applicable to the work designed below, shall be understood to be and is a change to the bid documents and shall be part of and included in the contract for the above referenced project. All General, Supplementary and Special Conditions, etc., as originally specified or as modified below shall apply to these items.

Changes to Electrical Drawings:

1. Drawing E0-01
 - a. Clarified: Security Symbols WA, LR, SEC and KP – All conduit and outlet boxes by EC, wiring and devices by owner/others.
2. Drawing E0-03
 - a. Deleted Security Intrusion Detection Riser.
3. Drawing E2-01
 - b. Clarified: Power outlets and Data outlets network for flat panels, CPU's and Scanners associated with Receptions 102 and Lobby 101.
 - c. Added: Keynotes 25 and 26.
2. Drawing E3-01
 - a. Added: General Note I and Keynote 7.
 - b. Revised: HDMI connections at rooms 104E and 115.
 - c. Clarified: Network connections at rooms 101 and 102 between CPU's and monitors/scanners.
 - d. Revised: HDMI Cable drop Schedule.
3. Drawing E3-02
 - a. Delete: HDMI cabling at Training Rooms 222 and 223.
 - b. Revised: HDMI Cable drop Schedule.

Changes to Electrical Specifications:

1. Specification 28 31 12 Intrusion Detection
Delete this Specification Section.

END OF ADDENDUM 03 – ELECTRICAL

Attachments: Drawings and Specification: (As indicated above)

DEMOLITION GENERAL NOTES:

- A. NOTIFY THE OWNER, IN WRITING, AT LEAST 7 DAYS IN ADVANCE OF ALL REQUIRED SHUTDOWNS OF ELECTRICAL UTILITIES... B. WHEN WORKING IN AND AROUND THE EXISTING BUILDING, EXTREME CARE SHALL BE EXERCISED... C. ALL EXISTING WIRING, EQUIPMENT, CONDUITS AND MATERIALS NOT REQUIRED FOR REUSE OR RE-INSTALLATION... D. EXISTING CONDITIONS (PRESENCE AND LOCATION OF PANELBOARDS, LIGHTING FIXTURES, RECEPTACLES, EQUIPMENT, MATERIALS AND CIRCUITING) INDICATED ARE BASED ON INFORMATION OBTAINED FROM AVAILABLE RECORD DRAWINGS AND FIELD SURVEYS... E. EXISTING EQUIPMENT SIZES NOTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY... F. WHEN EXISTING MECHANICAL AND ELECTRICAL WORK IS REMOVED, ALL CONDUITS, WIRING AND MATERIALS SHALL BE REMOVED TO A POINT BELOW FINISHED FLOORS OR BEHIND FINISHED WALLS... G. EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT, CONDUIT, WIRING, DEVICES, AND MATERIALS AFFECTED BY DEMOLITION OR NEW WORK INSTALLATION... H. IN GENERAL, ON DEMOLITION DRAWINGS, ALL EQUIPMENT AND MATERIALS SHOWN AS 'HEAVY AND DASHED' ARE EXISTING TO BE DEMOLISHED... I. ENSURE THAT ALL ELECTRICAL WORK IS DONE DE-ENERGIZED... J. ALL TESTING, TROUBLESHOOTING AND VERIFICATION OF DEENERGIZATION IS TO BE DONE IN ACCORDANCE WITH NFPA 70E... K. PRIOR TO THE REMOVAL OF A CIRCUIT FROM A PANELBOARD, THE CONTRACTOR SHALL VERIFY THAT NO EXISTING LOADS REMAIN ON THAT CIRCUIT... L. UPDATE PANEL SCHEDULES TO REFLECT NEW AND CHANGED LOAD. ALL PANEL SCHEDULES SHALL BE COMPUTER GENERATED.

ELECTRICAL SYSTEM AND EQUIPMENT
METHOD OF COMPLIANCE:
ENERGY CODE: PRESCRIPTIVE_X PERFORMANCE___
ASHRAE 90.1: PRESCRIPTIVE___ PERFORMANCE___

LIGHTING SCHEDULE
Lamp type required in fixture - See Fixture Schedule.
Number of amps in fixture - See Fixture Schedule.
Ballast type used in the fixture - See Specifications.
Number of ballasts in fixture - See Specifications.
Total wattage per fixture - Varies - See Fixture Schedule
Total interior wattage specified versus allowed: 27077 watts versus 30275 watts (whole building)
Total exterior wattage specified versus allowed: 1930 watts versus 1792 watts

ADDITIONAL PRESCRIPTIVE COMPLIANCE
X 406.2 More Efficient HVAC Performance
X 406.3 Reduced Lighting Power Density
406.4 Enhanced Lighting Controls
406.5 On-Site Supply of Renewable Energy
406.6 Provision of Dedicated Outdoor HVAC Air System
406.7 High Efficiency Service Water Heating

DESIGNER STATEMENT:
To the best of my knowledge and belief, the design of this building complies with the electrical system and equipment requirements of the 2018 North Carolina State Building Code, Energy Conservation Code.

2 ELECTRICAL CODE SUMMARY
NOT TO SCALE

GENERAL NOTES

- 1. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE FROM THESE DRAWINGS.
2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH ALL OTHER TRADES INVOLVED IN THE PROJECT PRIOR TO THE INSTALLATION OF HIS EQUIPMENT TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE.
3. ALL LIGHT FIXTURES SHALL BE SUPPORTED FROM BUILDING STRUCTURE AND IS NOT ALLOWED TO BE ANCHORED OR SUPPORTED BY ANY PART OF THE SUSPENDED CEILING SYSTEM. REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.
4. THE USE OF THE CONDUIT SYSTEM FOR EQUIPMENT GROUNDING SHALL NOT BE ACCEPTABLE. A SEPARATE INSULATED, GREEN COLORED COPPER WIRE SHALL RUN WITH THE CIRCUIT CONDUCTORS IN EACH CIRCUIT CONDUIT.
5. IN ALL AREAS WHERE FIRE RATED WALLS, FLOORS AND CEILINGS ARE INSTALLED, ALL PENETRATIONS OF ELECTRICAL CONDUITS OR OTHER RELATED ELECTRICAL MATERIAL SHALL BE PROPERLY SEALED WITH APPROVED FIRE RATED MATERIALS TO MAINTAIN THE RATINGS OF THE BUILDING CONSTRUCTION.
6. ALL FUSES, DISCONNECT SWITCHES AND BREAKER SIZES SHOWN FOR MECHANICAL/PLUMBING/FIRE PROTECTION EQUIPMENT SHALL BE VERIFIED PRIOR TO THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT...
7. ALL WORK AND MATERIAL SHALL BE PROVIDED IN ACCORDANCE WITH STATE, LOCAL AND NATIONAL CODES AND ORDINANCES.
8. EACH CONTRACTOR SHALL PROVIDE THEIR OWN SUPPORTS FOR ALL DEVICES AND EQUIPMENT PROVIDED BY THE CONTRACTOR AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER...
9. ALL JUNCTION BOXES AND CONDUIT RUNS (WITH OR WITHOUT WIRES) SHALL BE COLOR CODED WITH PAINT IN ACCORDANCE WITH ELECTRICAL GENERAL PROVISIONS.
10. THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT AND OWNER PRIOR TO INSTALLATION.
11. ALL WIRE AND CONDUIT SIZES ARE BASED ON 75 DEGREE CELSIUS THHN OR THWN WIRE UNLESS OTHERWISE NOTED.
12. THE NEW FIRE ALARM EQUIPMENT SHOWN SHALL BE PROVIDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS...
13. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL CEILING TYPES AND FINISHES BEFORE PURCHASING ANY LIGHT FIXTURES...
14. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE UTILITY POWER COMPANY FOR THE WORK REQUIRED FOR THE CONNECTION OF THE UTILITY'S NEW TRANSFORMER METERING...
15. WHERE MULTIPLE SWITCHES ARE SHOWN IN THE SAME LOCATION, THEY SHALL BE GANGED TOGETHER IN ONE MULTIPLE GANG BOX WITH MATCHING COVER AND PARTITION (IF REQUIRED)...
16. WHERE ELECTRICAL EQUIPMENT PENETRATES EXTERIOR WALLS OR THE ROOF, THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ENGINEER...
17. ALL EXTERIOR BUILDING LIGHTS AND EMERGENCY LIGHTING SHALL BE WIRED WITH A MINIMUM #10 AWG OR AS NOTED OTHERWISE.
18. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CHAIN HUNG FIXTURES LOCATED IN MECHANICAL OR OTHER SPACES...
19. ALL EMERGENCY LIGHTING, EXIT SIGNS AND NIGHT LIGHTS SHALL BE WIRED TO THE EXISTING BUILDING AUTOMATION SYSTEM.
20. WHERE CONDUIT OR OUTLET BOXES CANNOT BE INSTALLED IN EXISTING WALLS FOR NEW DEVICES, NOTIFY ARCHITECT FOR AN ACCEPTABLE INSTALLATION SOLUTION PRIOR TO PROCEEDING.
21. OUTLET BOXES ON OPPOSITE SIDES OF A FIRE RESISTANT WALL OR SHAFT ENCLOSURE RATED TWO (2) HOURS OR LESS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24" AS REQUIRED BY NCSBC VOL. 1 PARAGRAPH 705.4.3.
22. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ACCESS PANELS AS REQUIRED FOR ELECTRICAL CODE COMPLIANCE AND TO ACCESS ANY INSTALLATION THAT WILL REQUIRE FUTURE MAINTENANCE...
23. ALL UNDERGROUND CONDUITS SHALL BE IDENTIFIED ON ASBUILT PLANS WITH DIMENSIONS LOCATING THE CONDUITS AND THEIR RESPECTIVE BURIAL DEPTHS.
24. REFER TO SERIES E4 FIRE ALARM PLANS FOR FIRE ALARM WORK.
25. CONDUCTORS FOR BRANCH CIRCUITS SHALL BE SIZED TO PREVENT VOLTAGE DROP EXCEEDING 3% AT THE FARTHEST OUTLET OF POWER, HEATING AND LIGHTING LOADS OR ANY COMBINATION OF SUCH LOADS. THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDER AND BRANCH CIRCUITS TO THE FARTHEST CONNECTION SHALL NOT EXCEED 5%.

- A. WHERE THE CONDUCTOR LENGTH FROM THE PANEL TO THE FIRST OUTLET ON A 120V CIRCUIT EXCEEDS 50'-0". THE BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET SHALL NOT BE SMALLER THAN #10 AWG. INCREASE THE BRANCH CIRCUIT CONDUCTOR SIZE AN ADDITIONAL WIRE SIZE FOR EACH ADDITIONAL 125' FOR THE ENTIRE CIRCUIT...
B. WHERE THE BRANCH CIRCUIT CONDUCTOR LENGTH FROM THE PANEL TO THE FIRST OUTLET ON A 277V CIRCUIT EXCEEDS 125'-0" THE BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET SHALL NOT BE SMALLER THAN #10 AWG. INCREASE THE BRANCH CIRCUIT CONDUCTOR SIZE AN ADDITIONAL WIRE SIZE FOR EACH ADDITIONAL 125' FOR THE ENTIRE CIRCUIT...

ABBREVIATIONS

Table with 2 columns: ABBREV, DEFINITION. Includes entries like AMP, AC, AD, AFF, AF, AH, AI, AL, ANSI, ATSC, ATS, AV, AWG, BAS, BFC, CB, CCKT, CTV, CT, CU, D, DB, DL, DISC, ECB, EOR, EX, FUT, GFCI, GFP, GND, GRS, HH, HOA, HRS, IEE, IG, KCMIL, KV, KVA, KW, KWH, LC, LS, LSGI, MAX, MCB, MFC, MDP, MIN, MH, MLO, MTS, N/A, NC, NEC, NEMA, N or NEUT, NFPA, NIC, NH, P, PA, PB, PC, PH, PT, RC, RSC, SEC, SPD, SWBD, SWGR, TC, TAMP, TGB, TGMB, TB, TV, TYP, UIC, UG, UGE, UL, UON, UPS, V, VFD, WP, XFER, XFMR.

SYMBOL LEGEND (CONT.)

Table with 2 columns: SYMBOL, DESCRIPTION. Includes symbols for ceiling mounted fire alarm strobe, manual fire alarm pull station, photoelectric type smoke detector, duct type photoelectric smoke detector, heat detector, tamper switch, temperature sensor, sprinkler bell, remote alarm annunciators, addressable fire alarm control panel, fire alarm system notification appliance booster cabinet, carbon monoxide detector, fire alarm shutdown relay, wireless access point, 2 post data rack, idf room ground bar, mdf room main telecom ground bar, ladder runway cable tray, conduit sleeve, handhole, hvac control panel, flat panel comm and power outlets, low voltage timer switch, video surveillance camera, service entrance, manual transfer switch, automatic transfer switch, six gang recess activated floor box, power furniture feed, telecommunication furniture feed, door release button, card reader, request to exit motion sensor, door position switch, s2 access control panel, s2 node for door controller, audio/visual equipment rack, emergency power off push button station, generator remote annunciator panel, ceiling mounted fire alarm a/v device.

SYMBOL LEGEND

Table with 2 columns: SYMBOL, DESCRIPTION. Includes symbols for existing exit sign, existing light fixture, existing down light, existing wall light, existing flood light, existing light switch, existing receptacle, existing communication outlet, existing disconnect switch, existing junction box, existing fire alarm a/v device, existing fire alarm pull station, existing loud speaker, existing lighting control switches, existing smoke detector, existing quad receptacle, existing time clock, existing fire alarm electro-magnetic holder, existing 3-way lighting switch, existing 4-way lighting switch, existing fire alarm visual device, existing duct smoke detector, existing fire alarm control panel, existing 120/208 volt panel, existing 277/480 volt panel, luminaire, night light/emergency led fixture, light fixture, led emergency light fixture, exterior emergency led light fixture, linear led luminaire, linear led luminaire with 90 minute battery backup, electrically held lighting contactor, ceiling mounted dual technology occupancy sensor, corner mounted dual technology occupancy sensor, ceiling mounted digital low voltage dual technology occupancy sensor, single pole toggle switch, dual technology single button wall switch sensor, low voltage override switch, 3-way switch, 2 button digital switch, 4-way switch, single pole toggle switch, digital b-zone controller, 120 volt amp heavy duty motor, 208 volt 2 amp 2 pole heavy duty motor, duplex grounding type, weatherproof duplex ground fault interrupting, quadruplex grounding, 250 volt rated single or three phase ground fault receptacle, data outlet, distribution copper wound step-down transformer, 120/208 volt panelboard, 277/480 volt service entrance panelboard, surge protective device, disconnect switch, wiring and conduit installed, unswitched wiring and conduit, home run circuit, junction box with removable cover, wall mounted 750 watt led emergency lighting inverter, narco x255 security panel, numerical remote security keypad, intrusion detection motion sensor, slide type dimmer switch, 3-way slide dimmer switch.



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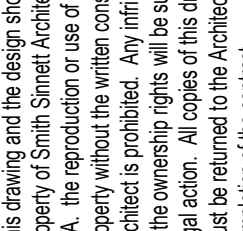
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11/18/2024



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THIS DRAWING IS CONSIDERED TO BE PRINTED ON A 32 X 36 SHEET

Onslow County Senior Service Center
Renovation
Onslow County Government
4024 Richlands Hwy, Jacksonville, NC 28540

2 11/19/2024 ADDENDUM 3
ID DATE DESCRIPTION

SHEET INDEX - ELECTRICAL

Table with 5 columns: Sheet Number, Sheet Name, Current Revision, Current Revision Date. Lists sheets E0-01 through E7-01 including Electrical Lead Sheet, Details, Security Details, Demolition Plan, Lighting Plans, Power Plans, and Panel Schedules.

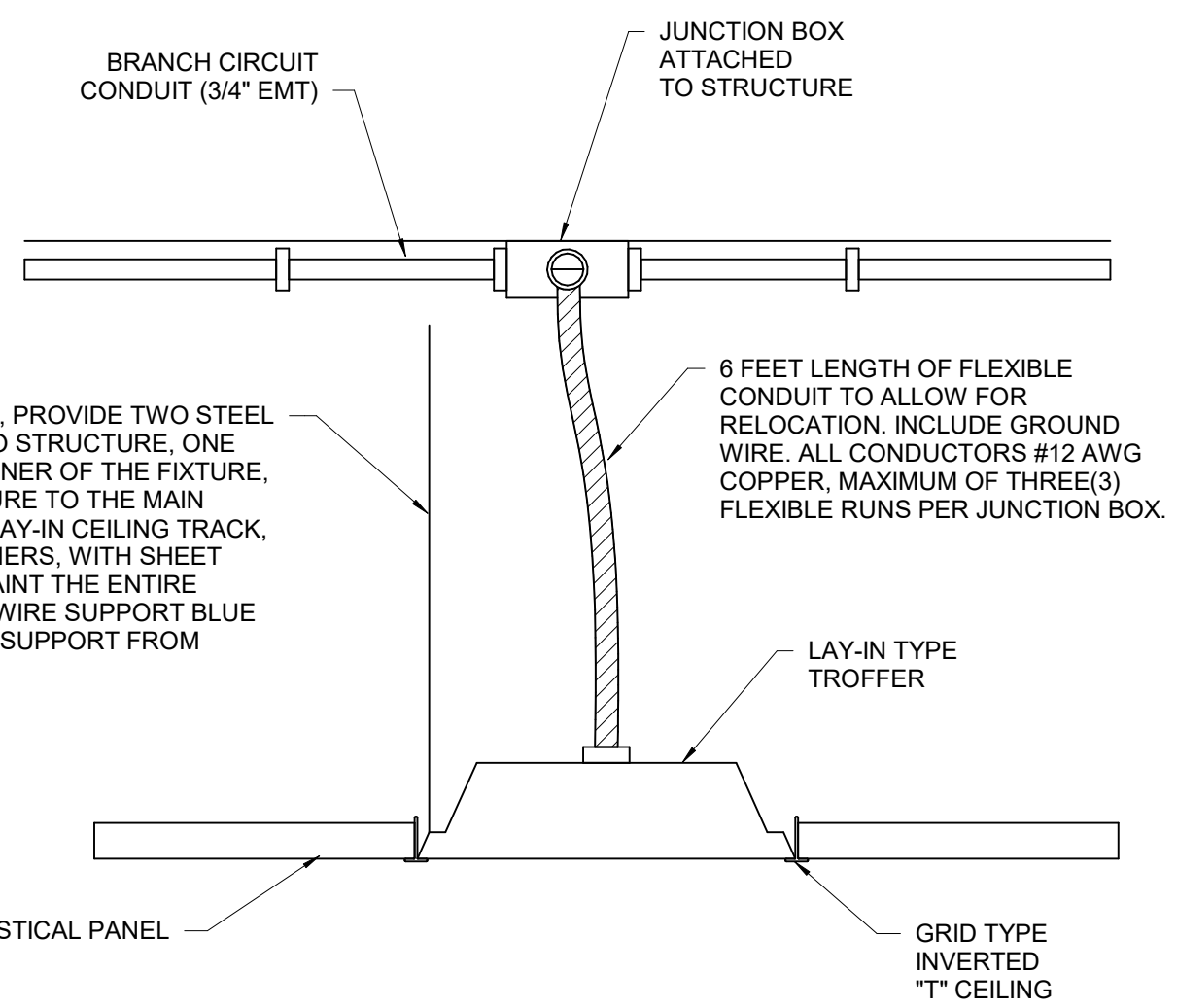
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ELECTRICAL LEAD SHEET

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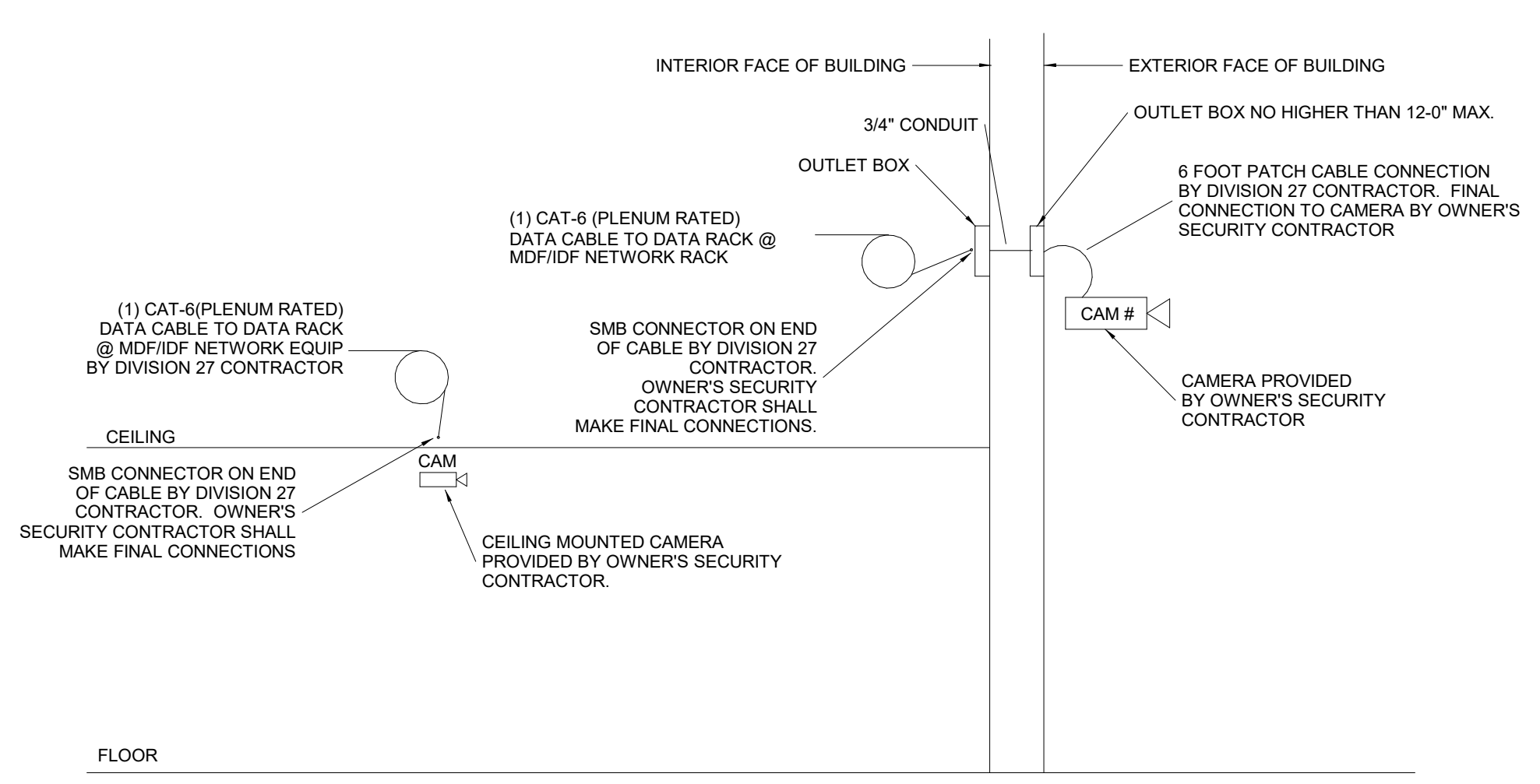
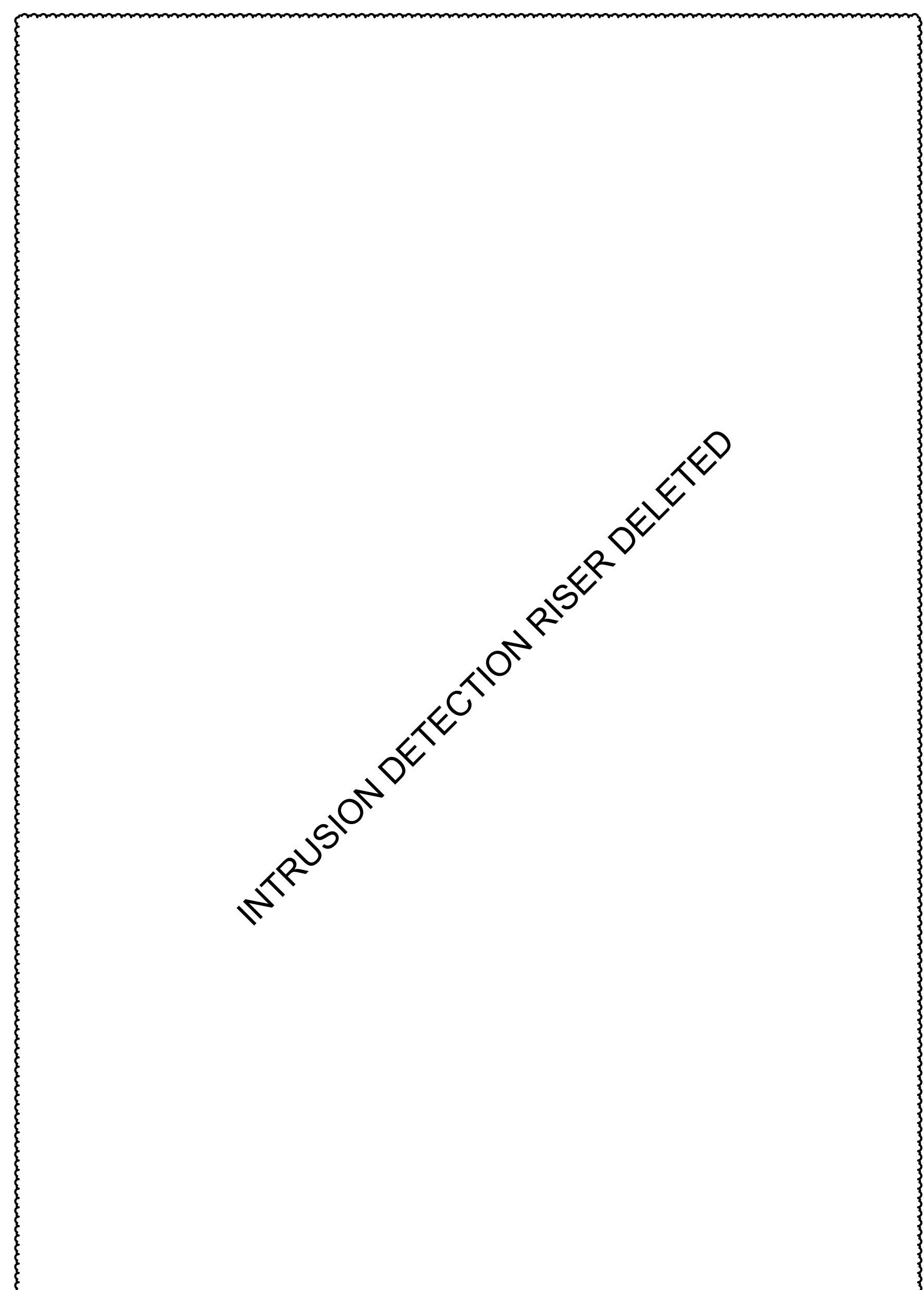
E0-01

2	11/19/2024	ADDENDUM 3
ID	DATE	DESCRIPTION

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DETAILS

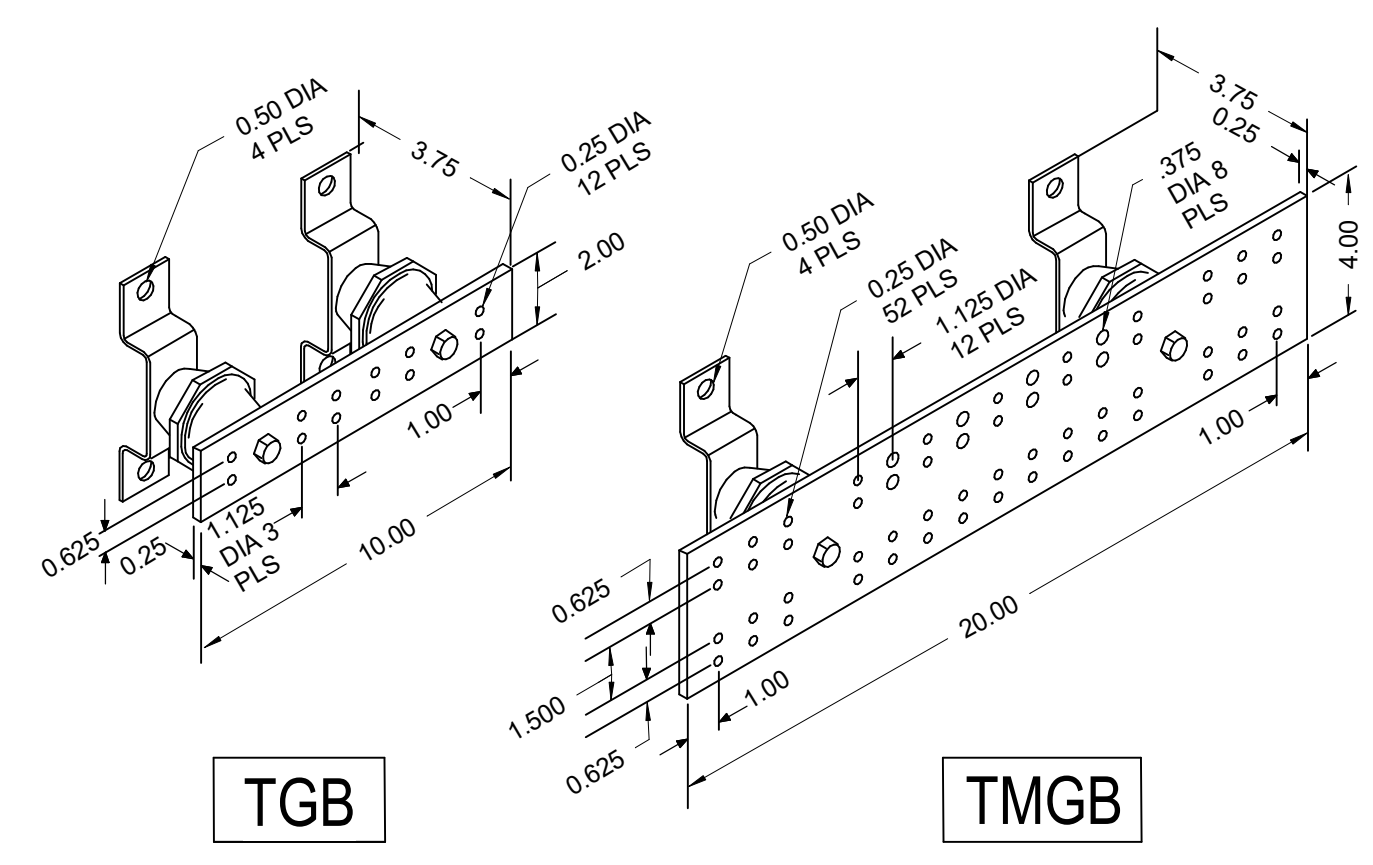


6 LAY-IN FIXTURE MOUNTING
NOT TO SCALE



- GENERAL NOTES:**
- ALL CONDUIT AND OUTLET BOXES BY ELECTRICAL CONTRACTOR.
 - ALL PLENUM RATED CAT-6 CAMERA CABLING SHALL BE GREEN AND PROVIDED BY DIVISION 27 CONTRACTOR.
 - PROVIDE 15'-0" SERVICE LOOP AT CAMERA LOCATION.
 - PLEASE NOTE: DIVISION 27 CONTRACTOR, OWNER'S SECURITY CONTRACTOR AND ONSLOW COUNTY IT/SECURITY DEPARTMENT SHALL COORDINATE CLOSELY. THE CAMERAS ARE PROVIDED BY SECURITY CONTRACTOR. WIRING SHALL BE PROVIDED BY THE DIVISION 27 CONTRACTOR. THE CABLE NUMBER SHALL ALSO BE IDENTIFIED ON THE CABLE JACKET ABOVE THE CEILING AND AT THE CAMERA END. COORDINATE ALL WORK WITH THE ONSLOW COUNTY IT/SECURITY DEPARTMENT PRIOR TO INSTALLATION/ROUGH-IN.
 - CAMERA CABLES SHALL BE TERMINATED ON SEPARATE PATCH PANELS @ DATA RACKS IN MDF OR IDFs. ALL NETWORK POE SWITCHES SHALL BE PROVIDED AND INSTALLED BY THE ONSLOW COUNTY IT DEPARTMENT. VIDEO SERVER SHALL BE PROVIDED BY THE OWNER'S SECURITY CONTRACTOR.
 - CAT-6 CAMERA DATA CABLE LENGTHS SHALL NOT EXCEED 90 METERS. CONTRACTOR SHALL TAKE CARE IN MAINTAINING THESE LENGTHS.
 - ALL CAMERA CABLES SHALL BE TESTED IN COMPLIANCE WITH THE DATA CABLE REQUIREMENTS.

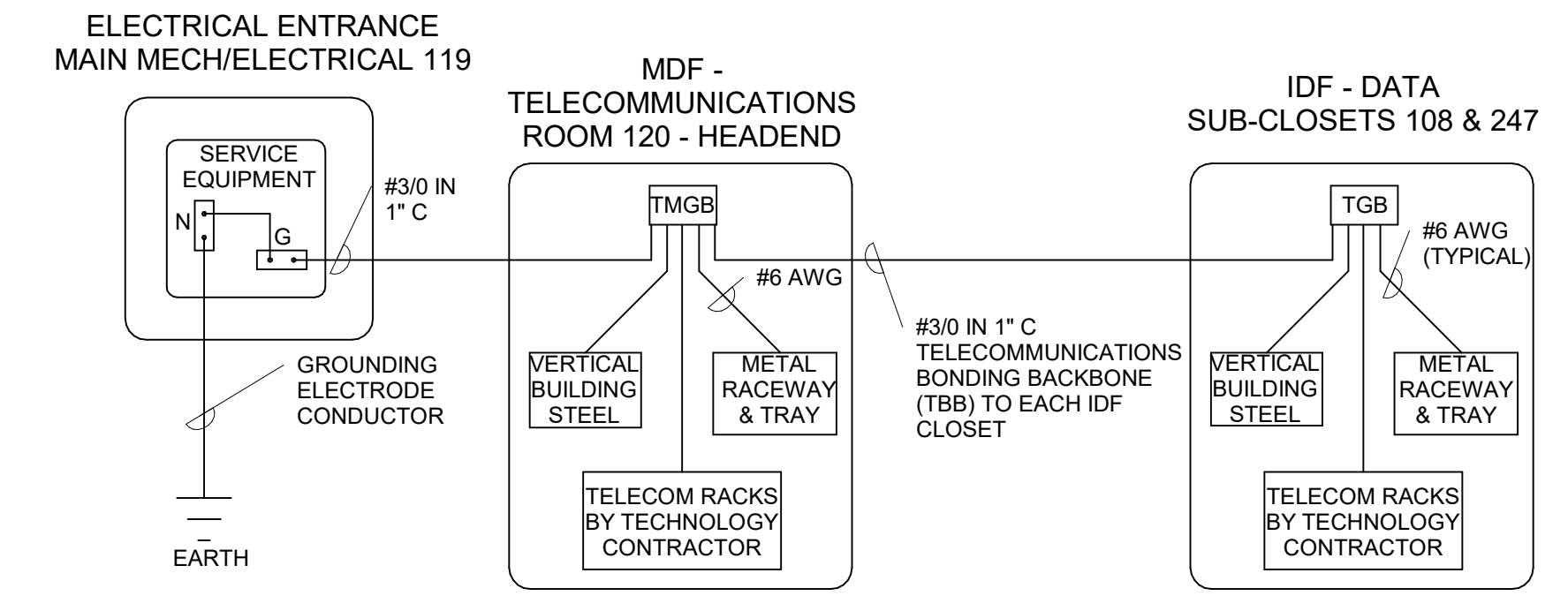
4 SECURITY CAMERA INSTALLATION
NOT TO SCALE



- GENERAL NOTES:**
- TYPICAL BUSBARS, INSULATORS AND BACKBOARD MOUNTING BRACKETS SHOWN HERE REFLECT BICSI STANDARD-COMPLIANT DIMENSIONS.
 - MOUNT BACKBOARD MOUNTED BUSBARS @ 8'-6" AFF. UNLESS DIRECTED OTHERWISE BY OWNER.
 - THIS GROUNDING DETAIL IS APPLICABLE TO MDF(MAIN TELECOM) & IDF(TELECOM) CLOSETS.

TELECOMMUNICATIONS GROUNDING

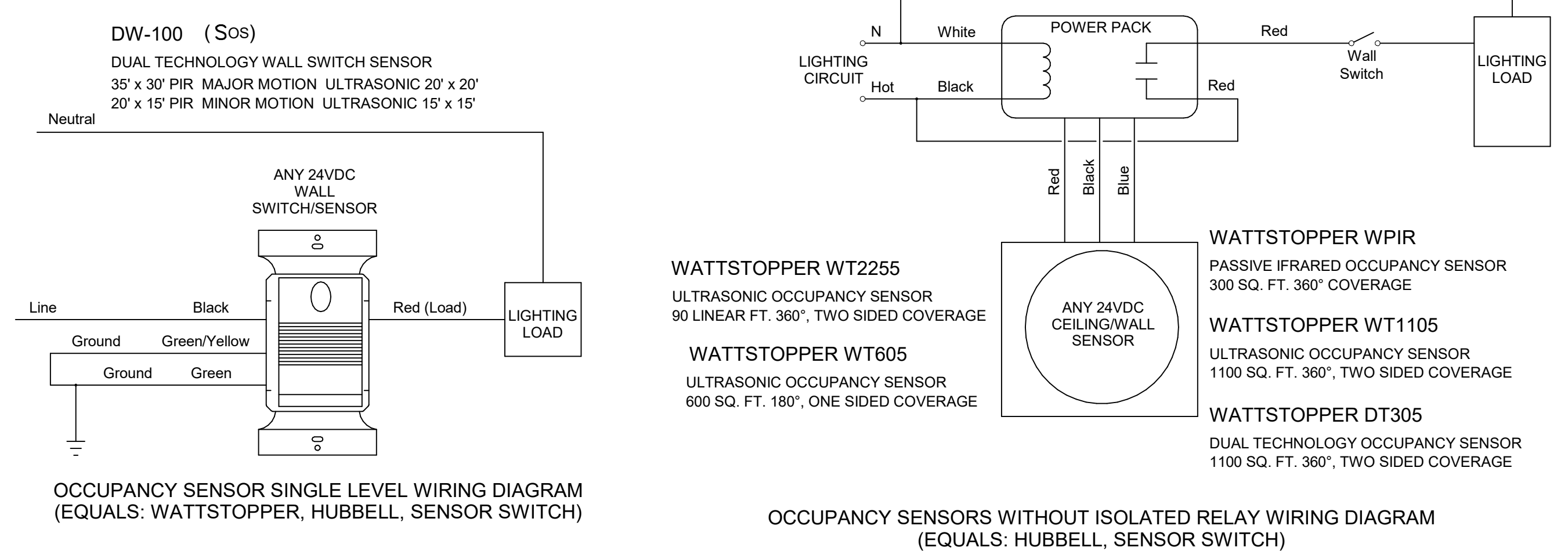
5 DETAIL - TELECOMMUNICATIONS GROUNDING
NOT TO SCALE



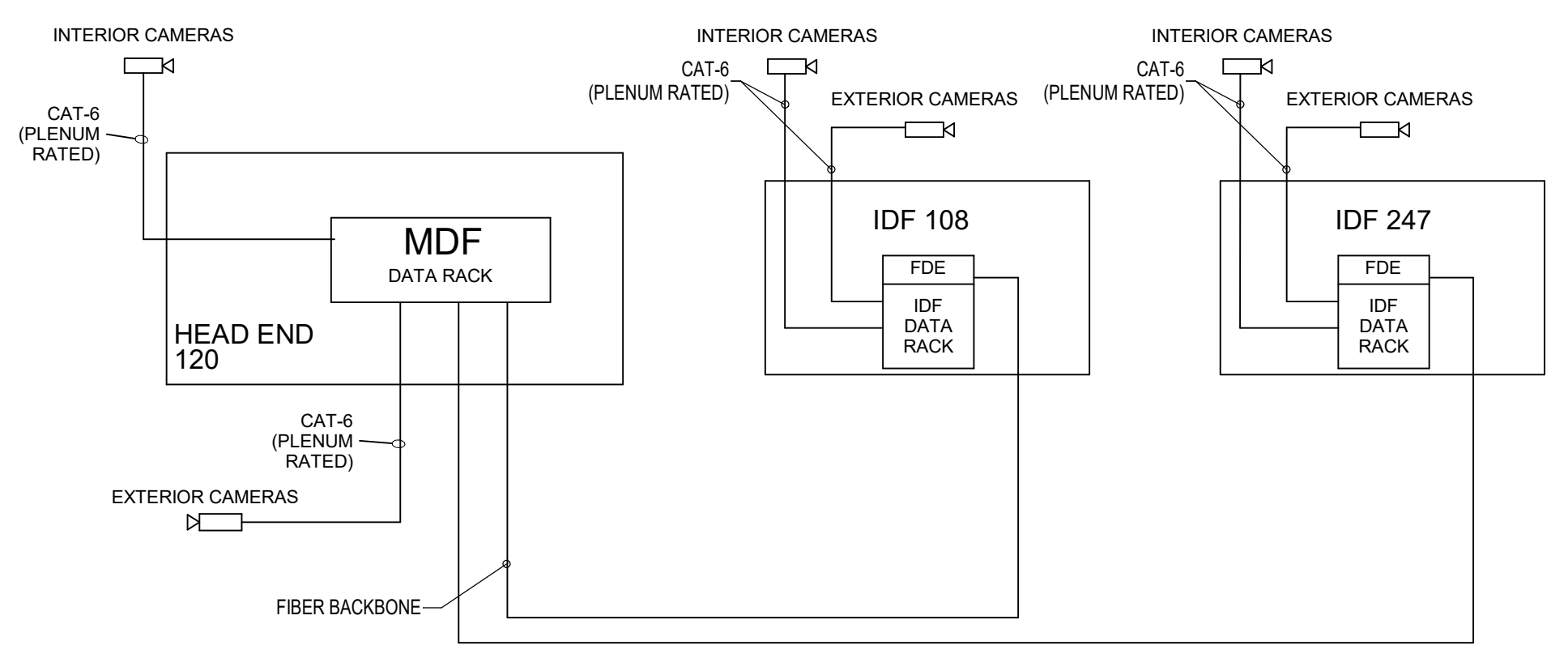
- NOTES:**
- IT IS THE INTENT FOR THE TELECOMMUNICATION GROUNDING SYSTEM TO UTILIZE THE "GROUND ELECTRODE CONDUCTOR (GEC)" ASSOCIATED WITH THE ELECTRICAL SERVICE ENTRANCE TO THE PROJECT SITE.
 - FROM THE GEC, THE ELECTRICAL CONTRACTOR SHALL INSTALL A BONDING CONDUCTOR WHICH WILL CONNECT THE GEC TO A TELECOMMUNICATIONS MAIN GROUNDING BUS BAR (TMGB) LOCATED IN MDF ROOM 120. THE BONDING CONDUCTOR SHALL BE BONDED TO THE GEC AND THE TMGB. ADDITIONALLY, THE TMGB SHALL BE BONDED TO THE CLOSEST VERTICAL BUILDING STEEL AND STEEL CONDUIT RACEWAY OR CABLE TRAY DESIGNATED FOR TELECOMMUNICATIONS USE.
 - A BONDING CONDUCTOR (THE TELECOMMUNICATIONS BONDING BACKBONE) SHALL CONNECT THE TMGB TO ALL TELECOMMUNICATION CLOSETS (IDFs) WITHIN THE FACILITY, SPECIFICALLY TO A TELECOMMUNICATIONS GROUNDING BUSBAR (TGB) LOCATED IN EACH IDF. ADDITIONALLY, THE TGB WILL BE BONDED TO THE CLOSEST AVAILABLE VERTICAL BUILDING STEEL AND STEEL CONDUIT RACEWAY OR CABLE TRAY DESIGNATED FOR TELECOMMUNICATIONS USE.
 - COMPONENTS CRITERIA:
 - BUSBARS:
 - PREDRILLED ELECTROPLATED COPPER BUSBAR PROVIDED WITH STANDARD NEMA BOLT HOLE SIZING AND SPACING FOR TWO HOLE COMPRESSION CONNECTORS OR EXOTHERMIC TYPE WELDED CONNECTORS.
 - REFER TO DETAIL E0-034 ON THIS DRAWING FOR TELECOM BUSBAR REQUIREMENTS.
 - THE BUSBAR SHALL BE INSULATED FROM ITS SUPPORT. MINIMUM 50mm SEPARATION IS RECOMMENDED.
 - BONDING CONDUCTOR:
 - TELECOMMUNICATIONS BONDING BACKBONE SHALL BE A MINIMUM OF #30AWG STRANDED AND INSULATED CONDUCTOR IN 1" EMT.
 - THE CONDUCTOR SHALL BE CONTINUOUS AND ROUTED IN THE SHORTEST POSSIBLE STRAIGHT LINE PATH FROM THE MDF TO IDFS.

TELECOMMUNICATIONS GROUNDING SYSTEM TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR
1 TELECOMMUNICATIONS SYSTEM GROUNDING
NOT TO SCALE

- GENERAL NOTES:**
- ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
 - ULTRASONIC CEILING MOUNTED SENSORS SHALL NOT BE LOCATED WITHIN 6'-0" OF SUPPLY/RETURN GRILLES.
 - CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS. VERIFICATION OF MANUFACTURER'S RECOMMENDED PLACEMENT AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
 - CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS. POWER PACKS SHALL BE INSTALLED IN A 4" SQUARE JUNCTION BOX.
 - ONE POWER PACK IS REQUIRED FOR EACH CIRCUIT THAT IS TO BE CONTROLLED.
 - MAXIMUM NUMBER OF SENSORS THAT CAN BE WIRED IN PARALLEL TO A SINGLE POWER PACK IS DEPENDENT ON SENSOR MODEL. (SEE INDIVIDUAL DATA SHEETS FOR mA CONSUMPTION.)
 - SENSOR LAYOUT DRAWINGS AND PRODUCT DATA SHEETS ARE REQUIRED AS PART OF SHOP DRAWING SUBMITTALS.
 - REFER TO SPECIFICATION 260923.
 - ALL OCCUPANCY SENSOR WIRING SHALL BE WIRED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - REFER TO SPECIFICATION 260923.
 - ALL EXPOSED WIRING SHALL BE PLENUM RATED ABOVE ACCESSIBLE LAY-IN CEILINGS. OTHERWISE, WIRING IN OPEN OR HARD CEILINGS SHALL BE IN CONDUIT.
 - ALL WALL MOUNT STYLE SENSORS SHALL BE THE SWIVEL TYPE SO THAT IT ALLOWS FOR ADJUSTMENT. NON-SWIVEL SENSORS SHALL NOT BE ACCEPTABLE.

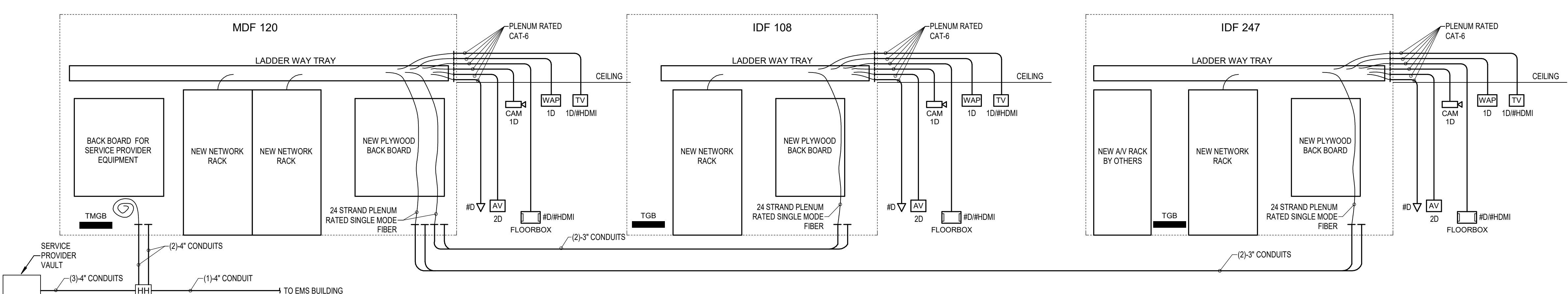


2 DETAIL - OCCUPANCY SENSOR WIRING DIAGRAMS
NOT TO SCALE



- GENERAL NOTES:**
- QUANTITY AND LOCATIONS AS SHOWN ON PLANS.
 - ALL CAMERA EQUIPMENT INCLUDING: CAMERAS, MOUNTS, FINAL CONNECTIONS, PROGRAMMING, LABELING OF ALL CAMERAS ON SERVER AND SYSTEM TESTING SHALL BE PROVIDED BY THE OWNER'S SECURITY CONTRACTOR. THE VIDEO SERVER SHALL BE PROVIDED AND INSTALLED BY THE OWNER'S SECURITY CONTRACTOR.
 - ALL CAMERA LOCATIONS SHALL BE COORDINATED WITH ONSLOW COUNTY IT/SECURITY PRIOR TO ROUGH-IN.
 - ALL PLENUM RATED CAT-6 CABLES FOR THE CAMERA SYSTEM SHALL HAVE GREEN JACKET. THESE CABLES SHALL BE TERMINATED ON THEIR OWN DESIGNATED PATCH PANELS. COORDINATE CLOSELY FOR ARRANGEMENTS AND LABELING. ALL POE SWITCHES SHALL BE OWNER PROVIDED. ALL CABLING SHALL BE TESTED AND DOCUMENTED UNDER THE REQUIREMENTS OF THE DIVISION 27 SPECIFICATIONS.
 - RJ45 CONNECTOR & SMB SHALL BE PLACED AT CAMERA END BY STRUCTURED WIRING CONTRACTOR FOR SECURITY CONTRACTOR TO MAKE FINAL CONNECTIONS.
 - CAMERA DATA CABLES SHALL MEET DATA CABLE LENGTH REQUIREMENTS IN SPECIFICATIONS 271000. IF LENGTH IS EXCEEDED, CABLE SHALL BE REPULED WITH SHORTER LENGTH AT NO ADDITIONAL COST TO OWNER.
 - REFER TO DETAIL E0-034 ON THIS DRAWING.
 - ASBUILT DRAWINGS SHALL IDENTIFY ALL CAMERA LOCATIONS WITH THE MAKE & MODEL NUMBER USED.

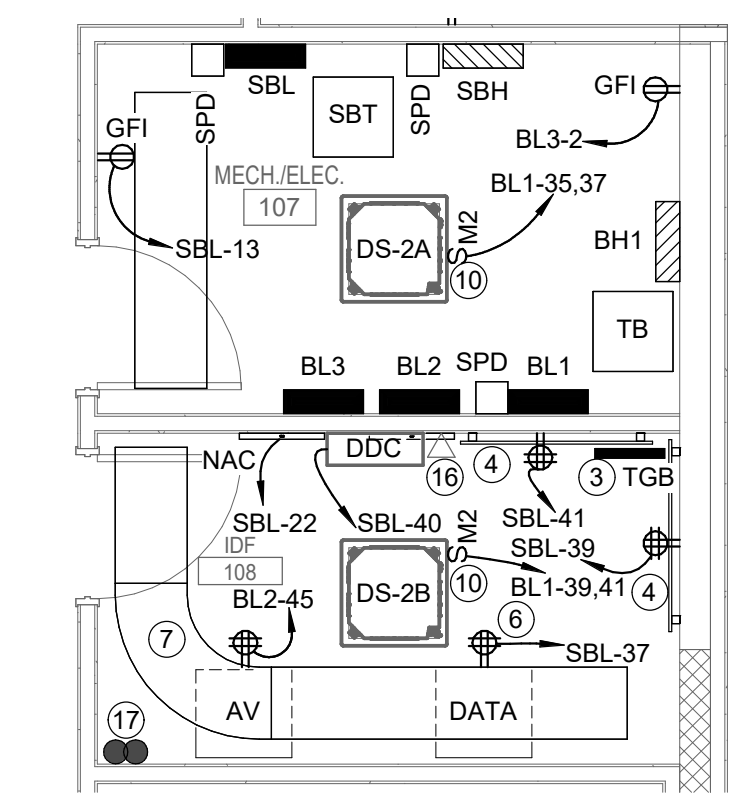
8 CAMERA SYSTEM RISER
NOT TO SCALE



- GENERAL NOTE:**
- ALL CAT-6 CABLING SHALL BE PLENUM RATED.
 - ALL NETWORK RACKS SHALL BE TWO POST. AV RACK BY OWNER/OTHERS.
 - FIBER CABLING SHALL BE IN MINIMUM 1 1/4" PLENUM RATED INNER DUCT ABOVE ACCESSIBLE CEILINGS. OTHERWISE, WHEN ROUTED IN OPEN CEILINGS OR ABOVE HARD CEILINGS, PROVIDE 2" CONDUIT.
 - CAT-6 PLENUM RATED CABLING CAN BE ROUTED ON J-HOOKS ABOVE LAY-IN CEILINGS. HOWEVER, IF ROUTED ABOVE OPEN OR HARD CEILINGS, THE CABLING SHALL BE IN CONDUIT.
 - REFER TO SPECIFICATION 271000.
 - ALL WIRING SHALL BE TESTED PER BICSI STANDARDS.
 - DIVISION 27 CONTRACTOR SHALL PROVIDE ALL FIBER/CAT-6 CABLING, HDMI CABLING, RACKS, PATCH PANELS, PATCH CORDS, SMB BOXES FOR CAMS/WAPS, FIBER/COPPER CONNECTORS, JACKS, STAINLESS STEEL COVERS WITH ID WINDOWS, ETC. FOR A COMPLETE NETWORK INFRASTRUCTURE.
 - ALL NETWORK ELECTRONICS BY OWNER.
 - ALL SECURITY CAMERAS SHALL BE BY OWNER'S SECURITY CONTRACTOR. WIRING SHALL BE BY DIVISION 27 CONTRACTOR.

3 TELECOMMUNICATIONS RISER
NOT TO SCALE

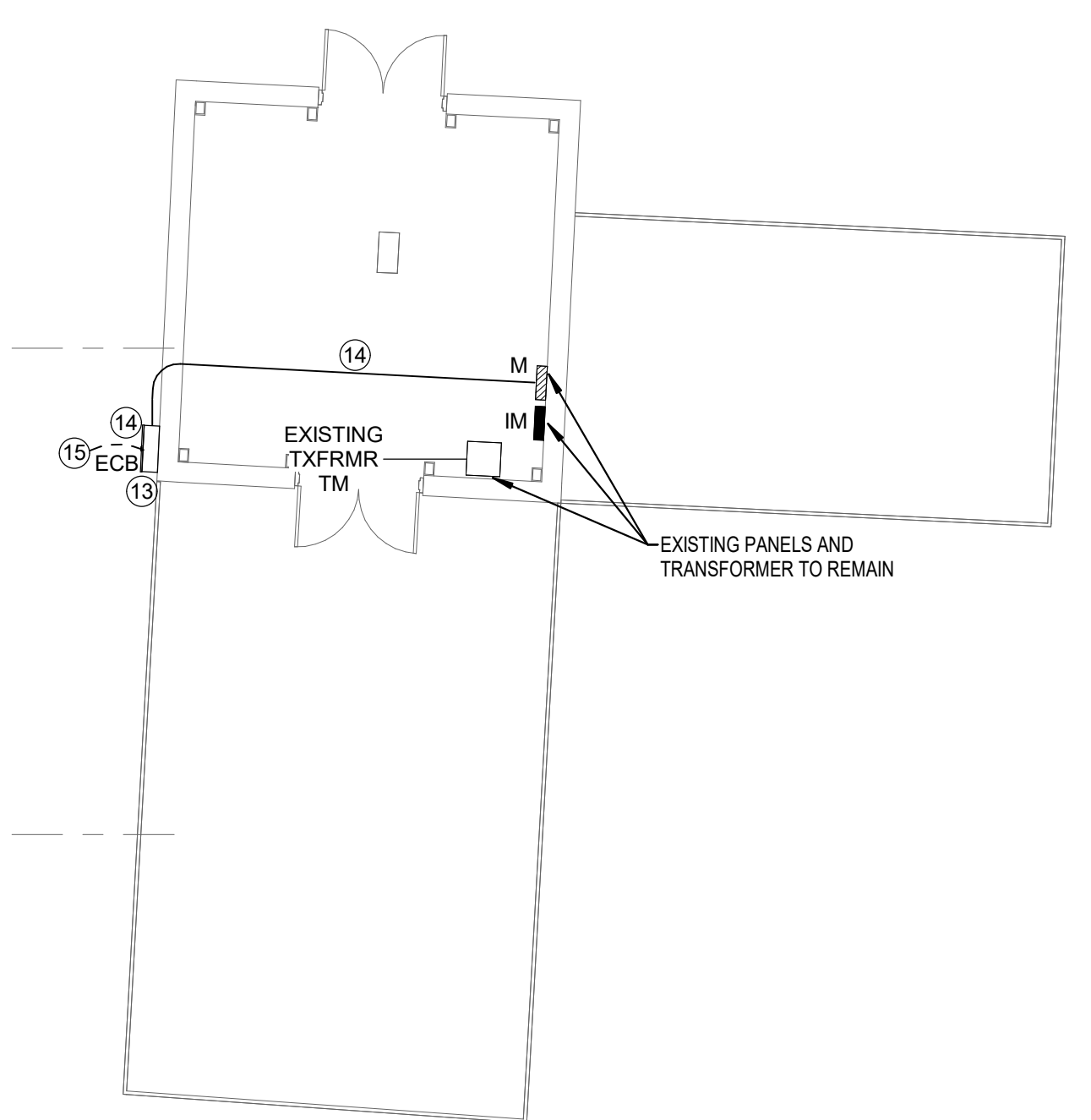
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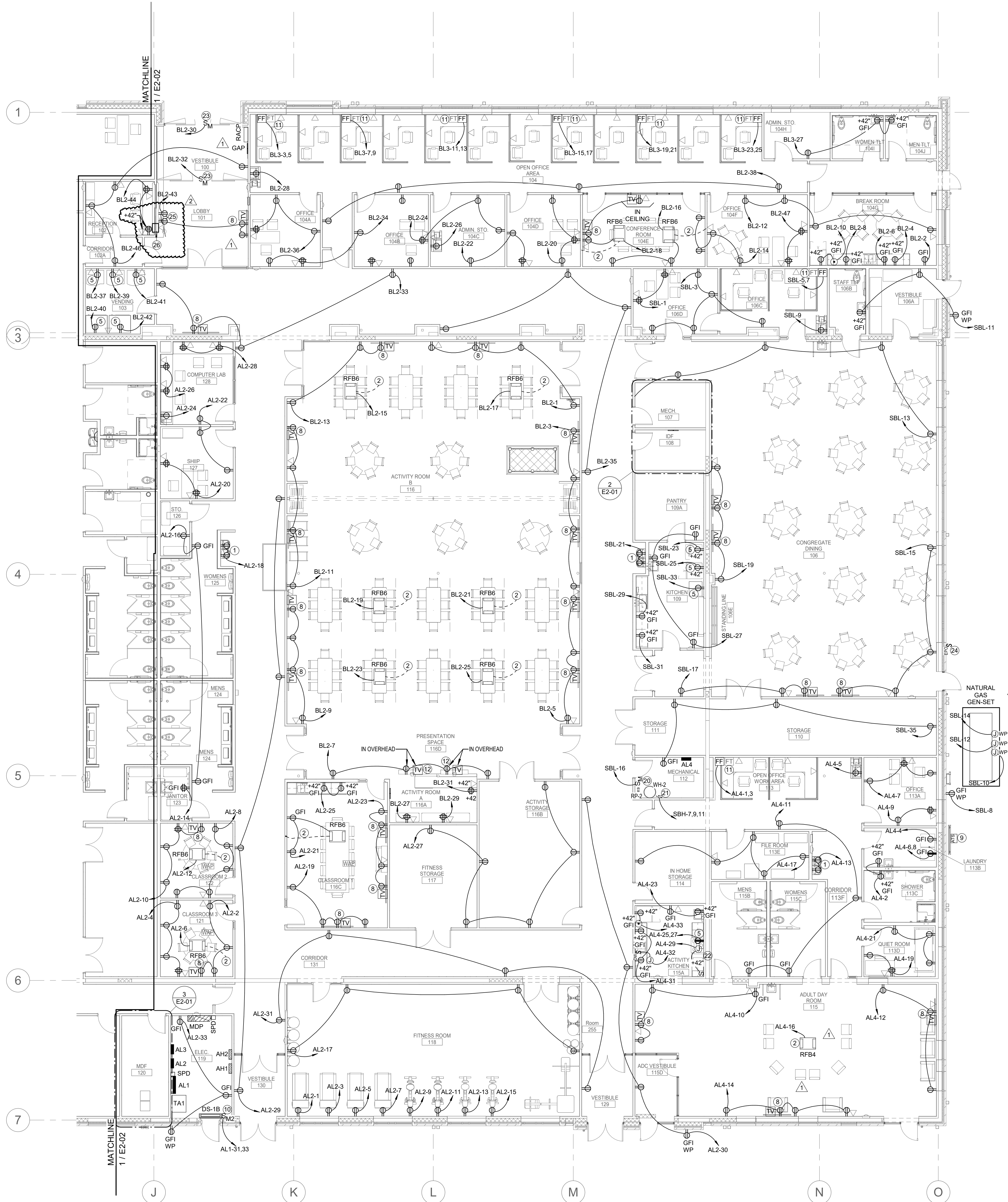
2 ENLARGED POWER PLAN - MECH/ELEC 107, IDF 108
1/4" = 1'-0"

GENERAL NOTES:

- A. REFER TO SHEET E0-01 FOR NOTES, LEGEND AND ABBREVIATIONS.
 - B. ALL 125V RECEPTACLES SHALL BE TAMPER RESISTANT.
 - C. ALL COMMUNICATIONS/LOW VOLTAGE CABLING IN AREAS WHERE CEILINGS ARE EXPOSED SHALL BE IN MINIMUM 3/4" CONDUIT. OTHERWISE, IF ROUTED ABOVE LAY-IN CEILINGS, WIRING CAN UTILIZE J-HOOK SUPPORTS LOCATED ON 3'-0" CENTERS. SIZE TO ACCOMMODATE QUANTITY OF CABLING.
- KEYNOTES:
1. COORDINATE LOCATION OF OUTLETS FOR WATER COOLER WITH PLUMBING CONTRACTOR. SO CORD DOES NOT SHOW. CIRCUIT IS GFCI PROTECTED AT PANEL.
 2. 1 1/4" COMMUNICATIONS CONDUIT FROM FLOORBOX TO ABOVE NEAREST ACCESSIBLE CEILING. PROVIDE 3/4" CONDUIT FOR POWER FROM FLOORBOX TO RESPECTIVE PANEL CIRCUIT AS INDICATED.
 3. TELECOMMUNICATIONS GROUND, REFER TO DETAIL E0-04/5.
 4. 4"x8"x3/4" FIRE RETARDANT PLYWOOD BACKBOARD. COORDINATE FINAL PLACEMENT WITH OWNER'S IT DEPARTMENT.
 5. CIRCUIT BREAKER AT PANEL IS GFCI PROTECTED.
 6. COORDINATE RECEPTACLE PLACEMENT WITH NETWORK RACKS WITH DIVISION 27 CONTRACTOR AND OWNER PRIOR TO ROUGH-IN.
 7. 16"x4" LADDER RUNWAY CABLE TRAY FOR NETWORK ROOM. COORDINATE FINAL ARRANGEMENT WITH RACK CONFIGURATION PRIOR TO ROUGH-IN/INSTALL.
 8. COORDINATE PLACEMENT OF OUTLET AND ASSOCIATED RECEPTACLE FOR FLAT PANEL MONITOR WITH ARCHITECT PRIOR TO ROUGH-IN.
 9. AS PART OF BASE BID, PROVIDE NEMA-3R MANUAL TRANSFER SWITCH WITH CAM LOCK CONNECTIONS. AS PART OF ALTERNATE #2, PROVIDE NEMA-3R AUTOMATIC TRANSFER SWITCH. REFER TO POWER RISER. ELECTRICAL CONTRACTOR SHALL PROVIDE SUPPORT FRAME TO MOUNT EQUIPMENT.
 10. 208 VOLT, 20 AMP, 2 POLE, MOTOR RATED TOGGLE DISCONNECT SWITCH FOR HVAC UNIT. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
 11. PROVIDE TWO GANG WALL BOX WITH (2)-1 1/4" CONDUITS TO ABOVE NEAREST LAY-IN CEILING FOR NETWORK WIRING. COORDINATE EXACT LOCATION WITH FURNITURE CONNECTIONS PRIOR TO ROUGH-IN. PROVIDE COVER PLATE AND FLEXIBLE CONDUIT CONNECTIONS TO FURNITURE. SIZED TO ACCOMMODATE QUANTITY OF CABLES PROVIDED. COORDINATE CLOSELY WITH DIVISION 27 CONTRACTOR.
 12. COORDINATE MOUNTING AND LOCATION OF OUTLET AND ASSOCIATED RECEPTACLE FOR FLAT PANEL DISPLAY WITH ARCHITECT PRIOR TO ANY ROUGH-IN.
 13. PROVIDE NEW 600 VOLT, 400 AMP, 3 POLE, NEMA-3R, SE RATED BREAKER ENCLOSURE, 65KAC.
 14. REFER TO POWER RISER.
 15. FOR CONTINUATION, SEE ELECTRICAL SITE PLAN ON DRAWING E7-01.
 16. COORDINATE PLACEMENT OF NETWORK OUTLET WITH HVAC CONTROLS CONTRACTOR PRIOR TO ROUGH-IN.
 17. (2)-4" COMMUNICATION CONDUITS - REFER TO SITE DRAWING E7-01.
 18. (2)-3" COMMUNICATION CONDUITS TO IDF 247.
 19. (2)-3" COMMUNICATION CONDUITS TO IDF 108.
 20. 120 VOLT, 20 AMP, MOTOR RATED TOGGLE DISCONNECT SWITCH FOR RECIRCULATION PUMP. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR.
 21. 600 VOLT, 30 AMP, 3 POLE, NEMA-1, NON-FUSIBLE DISCONNECT SWITCH FOR WATER HEATER. COORDINATE FINAL LOCATION WITH PLUMBING CONTRACTOR.
 22. RANGE HOOD POWER SWITCH TO ACCOMMODATE ADA REQUIREMENTS. COORDINATE FINAL LOCATION WITH ARCHITECT.
 23. 120 VOLT, 20 AMP, MOTOR RATED TOGGLE DISCONNECT SWITCH FOR MOTOR OPERATED DOOR. COORDINATE FINAL LOCATION WITH DOOR HARDWARE CONTRACTOR.
 24. PROVIDE EMERGENCY POWER OFF PUSH BUTTON STATION, NEMA-3R, UNDER LEXAN COVER. LABEL AS "GENERATOR EMERGENCY SHUT OFF".
 25. PROVIDE DUPLEX RECEPTACLES MOUNTED HORIZONTALLY AT +31" AFF TO TOP OF OUTLETS. OUTLETS SHALL BE LOCATED TIGHT TO THE BOTTOM OF COUNTER.
 26. PROVIDE CABLE PASS THROUGH BETWEEN RECEPTIONS 102 CPUS AND LOBBY 101 FLAT PANEL SCANNERS FOR (4) PLENUM RATED CAT-6 CABLES. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.



4 ELECTRICAL POWER PLAN - MECHANICAL BUILDING
1/8" = 1'-0"



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

3 ENLARGED POWER PLAN - MDF 120
1/4" = 1'-0"

