

Addendum No. 4

DATE: September 22, 2025

PROJECT: Vivie Nelson Care Center Renovation, Alexandria, MN

BID DATE: Thursday, September 25, 2025 @ 2:00pm (No Change)

The following items modify or interpret the Bidding Documents by additions, deletions, clarifications or corrections. Where portions of the Bidding Documents are modified by this Addendum, the unaltered portions of the Bidding Documents shall remain in effect.

CLARIFICATIONS:

- Reminder that Vivie is taking advantage of their tax exempt status so we need bids broke out labor and materials on your bid form.
- Included is the remainder of addendum #4 from Wold.

Innovative's web site plan download instructions:

Go to www.innovativecompaniesinc.com. Click on the words "plan room" in the upper right hand portion of the page. Enter "vivie@innovative.com" as the user name and "**In2plans**" as the password, and then click on login. Next, the window will update showing the file directory, just click on the file to enter the directory. Once in the directory, click in the box to the left of the files you wish to download, and then click on the Red download button on the right hand side. After a brief period (depending on your internet speed), another window will open asking if you want to open, save or save as (this may vary depending on your web browser type and version). Please save or save as to your local computer. The website will be updated as addendums become available.



To: Prospective Bidders

From: Wold Architects and Engineers

Date: September 22, 2025

Comm. No: 246040

Subject: Addendum No. 4 for Bidding Documents for the
Vivie
Nelson Care Center Renovation
Alexandria, Minnesota

BIDS DUE SEPTEMBER 25, 2025 AT 2:00 P.M.

This addendum forms a part of the Contract Documents dated August 29, 2025. Acknowledge receipt of this Addendum on the space provided on the Bid Form. Failure to do so may result in disqualification of Bid.

This Addendum consists of four (4) typed sheets and attachments:

Specifications: 06 41 00, 10 28 13, 23 09 93

Drawings: A0.001, A1.001a, A2.00a, A2.095, A2.901, A3.00a, A4.00a, A4.711, A5.201, A5.204, A5.601, A5.701, E0.003, E0.011, E0.011a, E0.011c, E1.001c, E2.001a, E2.001b, E2.001c, E3.001a, E3.001c, E5.00, E5.01, E6.02, E6.10, E6.11, E6.12, E6.13

ADDITIONAL QUESTIONS

1. **Question:** Does Alt #5 include removing/replacing 9 separate light poles? If so, what are the locations of these?
 - A. *Response:* Alternate #5 to include removing and replacing 13 separate light poles, bases and light fixtures. This includes the light poles identified as "EX. LIGHT POLE, T.B.R. (4X)" indicated on Drawing C2.0 Existing Site Demolition Plan. Relocating the existing light poles to be base scope. Locations for the light poles shown on Drawing C2.0 Existing Site Demolition Plan, Drawing C3.0 Proposed Site & Utility Plan and Drawing E0.02 Electrical Site Plan.
2. **Question:** On Alternate #5, how many light poles are they looking to replace the fixtures on? The note on Page E0.002 and on Page C2.0 says 9X. But I count 13 for sure. I am going on site today to confirm. Are we replacing the poles on all of them, or just the one that would be relocated?

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**PLANNERS
ARCHITECTS
ENGINEERS**



- A. *Response:* Alternate #5 to include removing and replacing 13 separate light poles, bases and light fixtures. Electrical Drawings indicate pole and fixture type. This includes the light poles identified as "EX. LIGHT POLE, T.B.R. (4X)" indicated on Drawing C2.0 Existing Site Demolition Plan. Relocating the existing light poles to be base scope.

PROJECT MANUAL

- 1. SPECIFICATION SECTION 06 41 00 ARCHITECTURAL WOOD CASEWORK AND TRIM**
 - A. Reissued this addendum.
 - i. Clarified casework construction type, item 2.02.
- 2. SPECIFICATION SECTION 10 28 13 TOILET, BATH AND LAUNDRY ACCESSORIES**
 - A. Reissued this addendum.
 - i. Clarified splash curtain locations, item 2.07.
- 3. SPECIFICATION SECTION 23 09 93 BAS SEQUENCE OF OPERATIONS**
 - A. Reissued this addendum.

DRAWINGS

- 1. DRAWING A0.001 DETAILS - GENERAL - SYMBOLS, ABBREVIATIONS, & MOUNTING HEIGHTS**
 - A. Reissued this addendum.
 - 1) Clarified Splash Curtain locations as indicated on Detail F2/A0.001
- 2. DRAWING A1.001a – FIRST FLOOR DEMOLITION PLAN - AREA A**
 - A. Reissued this addendum.
 - 1) Clarified extents of demolition to existing housekeeping pads as indicated on Detail E6/A1.001a.
- 3. DRAWING A2.00a – FIRST FLOOR PLAN – AREA A – SHORT STAY**
 - A. Reissued this addendum.
 - 1) Revised layout and clarified housekeeping pad extents as indicated on Detail C5/A2.00a
- 4. DRAWING A2.095 – ROOF PLAN**
 - A. Reissued this addendum.
 - 1) Clarified scope for gutters and downspouts as indicated on Detail F1/A2.095
 - 2) Added new vent stack/mechanical pipe penetrations as indicated on Detail F1/A2.095.
 - 3) Add detail callout and note for guardrail at ships ladder as indicated on Detail B5/A2.095
- 5. DRAWING A2.901 - DOOR/ FRAME/ WINDOW TYPES & DETAILS**
 - A. Reissued this addendum.
 - 1) Revised opening details for louver type L3 as indicated.



6. **DRAWING A3.00a - FIRST FLOOR REFLECTED CEILING PLAN - AREA A**
 - A. Reissued this addendum.
 - 1) Added Detail E5/A3.00a as indicated.
7. **DRAWING - FIRST FLOOR FINISH PLAN - AREA A & MATERIAL ID**
 - A. Reissued this addendum.
 - 1) Revised referenced specification section for SSF Simulated Stone Fabrications as indicated.
8. **DRAWING A4.711 - DETAILS - INTERIOR**
 - A. Reissued this addendum.
 - 1) Added Detail B6/A44.711 as indicated.
 - 2) Revised wall guard details C4 & D4/A4.711 as indicated.
9. **DRAWING A5.201 - EXTERIOR WALL TYPES**
 - A. Reissued this addendum
 - 1) Clarified wall type Detail B3/A5.201 as indicated.
10. **DRAWING A5.204 - WALL SECTIONS**
 - A. Reissued this addendum.
 - 1) Clarified scope at existing Area B roof assembly as indicated on Detail D5/A5.204.
11. **DRAWING A5.601 - DETAILS - EXTERIOR OPENINGS**
 - A. Reissued this addendum.
 - 1) Added Detail F7/A5.601 for louver opening at existing masonry.
12. **DRAWING A5.701 - DETAILS - EXTERIOR ROOF**
 - A. Reissued this addendum.
 - 1) Added Detail E6/A5.701 for roof edge at existing concrete plank structure.
13. **DRAWING E0.003 - OVERALL PLAN**
 - A. Reissued this addendum.
14. **DRAWING E0.011 - ELECTRICAL DEMOLITION PLAN - ADMIN BLDG**
 - A. Reissued this addendum.
15. **DRAWING E0.011a - ELECTRICAL DEMOLITION PLAN - AREA 'A'**
 - A. Reissued this addendum.
16. **DRAWING E0.011c - ELECTRICAL DEMOLITION PLAN - AREA 'C'**
 - A. Reissued this addendum.
17. **DRAWING E1.001c - LIGHTING PLAN - AREA 'C'**
 - A. Reissued this addendum.
18. **DRAWING E2.001a - POWER & FA PLAN - AREA 'A'**
 - A. Reissued this addendum.
19. **DRAWING E2.001b - POWER & FA PLAN - AREA 'B'**
 - A. Reissued this addendum.
20. **DRAWING E2.001c - POWER & FA PLAN - AREA 'C'**
 - A. Reissued this addendum.
21. **DRAWING E3.001a - SYSTEMS PLAN - AREA 'A'**
 - A. Reissued this addendum.



- 22. **DRAWING E3.001c - SYSTEMS PLAN - AREA 'C'**
 - A. Reissued this addendum.
- 23. **DRAWING E5.00 - EXISTING ONELINE DIAGRAMS**
 - A. Reissued this addendum.
- 24. **DRAWING E5.01 - REMODELLED ONELINE DIAGRAMS**
 - A. Reissued this addendum.
- 25. **DRAWING E6.02 - MOTOR SCHEDULE**
 - A. Reissued this addendum.
- 26. **DRAWING E6.10 - PANEL SCHEDULES**
 - A. Reissued this addendum.
- 27. **DRAWING E6.11 - PANEL SCHEDULES**
 - A. Reissued this addendum.
- 28. **DRAWING E6.12 - PANEL SCHEDULES**
 - A. Reissued this addendum.
- 29. **DRAWING E6.13 - PANEL SCHEDULES**
 - A. Reissued this addendum.

END OF ADDENDUM #4

SECTION 06 41 00
ARCHITECTURAL WOOD CASEWORK AND TRIM

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Specially fabricated cabinet units.
 - 1. Plastic Laminate.
- B. Standing and running trim.
- C. Countertops.
- D. Window stools/sills.

1.02 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements for submittal procedures.
- B. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.
 - 1. Scale of Drawings: 1-1/2 inch to 1 foot (125 mm to 1 m), minimum.
- C. Product Data: Provide data for hardware accessories.
- D. Samples: Submit actual samples of architectural cabinet construction, minimum 12 inches (300 mm) square, illustrating proposed cabinet, countertop, and shelf unit substrate and finish.
- E. Samples: Submit actual sample items of proposed pulls, hinges, shelf standards, and locksets, demonstrating hardware design, quality, and finish.

1.03 QUALITY ASSURANCE

- A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum ten years of documented experience.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Protect units from moisture damage.

1.05 FIELD CONDITIONS

- A. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Single Source Responsibility: Provide and install this work from single fabricator.

2.02 CABINETS

- A. Quality Standard: Premium Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.
- B. Plastic Laminate Faced Cabinets: Custom grade.
 - 1. Cabinets as noted on the drawings:
 - a. Finish - Exposed Exterior Surfaces: Decorative laminate.
 - b. Finish - Exposed Interior Surfaces: Decorative laminate.
 - c. Finish - Semi-Exposed Surfaces: Decorative laminate
 - d. Finish - Concealed Surfaces: Manufacturer's option.
 - e. Door and Drawer Front Edge Profiles: Square edge with PVC banding..
 - f. Door and Drawer Front Retention Profiles: Fixed panel.
 - g. Casework Construction Type: ~~Type B - Face frame~~ Type A - Frameless.
 - 1) Interface Style for Cabinet and Door: Style 1 - Overlay; flush overlay.
 - h. Adjustable Shelf Loading: 40 psf (19.5 gm/sq cm).
 - 1) Deflection: L/144.
 - i. Cabinet Style: Flush overlay.
 - j. Cabinet Doors and Drawer Fronts: Flush style.

2.03 STANDING AND RUNNING TRIM FOR TRANSPARENT FINISH

- A. Quality Standard: Comply with AWI Section 500.
- B. Grade: Premium.

- C. Lumber Species: See Interior Material/Finish Color Schedule, on the Drawings.
- D. Locations: At sliding barn door valance, trim over Hollow Metal Door Frames, chair rail, handrail backerboard trim.

2.04 WOOD-BASED COMPONENTS

- A. Wood fabricated from old growth timber is not permitted.

2.05 PANEL CORE MATERIALS

- A. Particleboard: Composite panel composed of cellulosic particles, additives, and bonding system; comply with ANSI A208.1.
 - 1. Grade: M-2; moisture resistance: MR10.
- B. Medium Density Fiberboard (MDF): Composite panel composed of cellulosic fibers, additives, and bonding system; cured under heat and pressure; comply with ANSI A208.2.
 - 1. Grade: 115; moisture resistance: MR10.
- C. Basic Hardboard: Panel manufactured from inter-felted lignocellulosic fibers consolidated under heat and pressure; comply with ANSI A135.4.
 - 1. Class: Tempered.
 - 2. Surface: Smooth one side (S1S).

2.06 LAMINATE MATERIALS

- A. Plastic Laminate: High Pressure Decorative Laminate (HPDL): NEMA LD 3, as follows:
 - 1. High-pressure decorative laminate VGS (.028), NEMA Test LD 3-2005.
 - 2. High-pressure decorative laminate HGS (.048), NEMA Test LD 3-2005.
 - 3. High-pressure decorative laminate HGP (.039), NEMA Test LD 3-2005.
 - 4. High-pressure cabinet liner CLS (.020), NEMA Test LD 3-2005.
 - 5. High-pressure backer BKH (.048), (.039), (.028), NEMA Test LD3-2005.
 - 6. Colors/Textures: See Interior Material Finish/Color Schedule on the Drawings.
 - a. Manufacturer as listed on the Interior Material Finish Schedule.
- B. Provide specific types as indicated.
 - 1. Horizontal Surfaces: HGS, 0.048 inch (1.22 mm) nominal thickness, through color.
 - 2. Vertical Surfaces: VGS, 0.028 inch (0.71 mm) nominal thickness, through color.
 - 3. Post-Formed Horizontal Surfaces: HGP, 0.039 inch (1.0 mm) nominal thickness, through color.
 - 4. Post-Formed Vertical Surfaces: VGP, 0.028 inch (0.71 mm) nominal thickness, through color, finish as indicated.
 - 5. Cabinet Liner: CLS, 0.020 inch (0.51 mm) nominal thickness, through color, finish as indicated.

2.07 COUNTERTOPS

- A. Solid Surfacing Countertops: Solid surfacing sheet over continuous substrate of plywood.
 - 1. Configuration for exposed edges, back and end splashes, with details indicated on drawings.
 - 2. Fabricate in accordance with manufacturer's standard requirements.
 - 3. All countertop joints must be dry fit at the factory to check for consistency in color from one panel to the other and overall finished panel thickness, resulting in a high quality product easy to install.
 - 4. Colors:
 - a. See Interior Material Finish/Color Schedule on the Drawings.
 - b. Manufacturer as listed on the Interior Material Finish Schedule.

2.08 WINDOW STOOLS/SILLS

- A. Solid Surfacing: Solid surfacing sheet over continuous substrate of plywood.
 - 1. 1-1/8 inch (28.575 mm) thick unless noted different on the drawings.
 - 2. For stools/sills over 7 feet (2.1336 m) in length, provide expansion joint with color match polyurethane or silicone sealant and backer rod at maximum of 8 foot (2.438 m) o.c.
 - a. Submit shop drawings that identify each stool/sill and locate expansion joint for review by Architect.

3. Colors:
 - a. See Interior Material Finish/Color Schedule on the Drawings.
 - b. Manufacturer as listed on the Interior Material Finish Schedule.

2.09 ACCESSORIES

- A. Adhesive: Type recommended by fabricator to suit application.
- B. Plastic Edge Banding for Plastic Laminate: Extruded PVC, flat or convex shaped; smooth finish; self locking serrated tongue; of width to match component thickness.
 1. Plastic-Laminate Countertops, backsplashes, open shelving, cabinet doors and drawers:
 - a. 3MM PVC.
 - b. Color: See Interior Material Finish/Color Schedule, on Drawings.
 2. Cabinet body and shelf/shelving edges:
 3. 1 MM.
 - a. Color matched to drawer/door/shelf face.
- C. Fasteners: Size and type to suit application.
- D. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application; galvanized or chrome-plated finish in concealed locations and stainless steel or chrome-plated finish in exposed locations.
- E. Concealed Joint Fasteners: Threaded steel.
- F. Grommets: Standard plastic grommets for cut-outs, in color to match adjacent surface.

2.10 HARDWARE

- A. Hardware: BHMA A156.9, types as recommended by fabricator for quality grade specified.
- B. Metal Z-Shaped Wall Panel Support Clips: Paired, cleated, structural anchorage components applied to paneling for mounting.
 1. Material: Extruded Aluminum.
 2. Size as required for applications.
- C. Adjustable Shelf Supports: Standard side-mounted system using recessed metal shelf standards or multiple holes for pin supports and coordinated self rests, polished chrome finish, for nominal 1 inch (25 mm) spacing adjustments.
- D. Countertop Support Brackets: Fixed, L-shaped, face-of-wall mounting.
 1. Materials: Steel; T-shape cross-section.
 - a. Finish: Manufacturer's standard, factory-applied, powder coat.
 - b. Color: Black.
 2. Products:
 - a. A&M Hardware, Inc; Hybrid Brackets: www.aandmhardware.com/#sle.
 - b. A&M Hardware, Inc; Heavy-Duty Hybrid Brackets: www.aandmhardware.com or equal.
 - c. Substitutions: See Section 01 60 00 - Product Requirements (Non-Wold Master - For Reference Only).
- E. Accessible-Compliant Vanity and Countertop Brackets:
 1. Material and Shape: Steel; formed compound shapes.
 - a. Finish: Manufacturer's standard, factory-applied, textured powder coat.
 - b. Color: Black.
 2. Height: 22 inches (560 mm) or per drawings.
 3. Products:
 - a. A&M Hardware, Inc; ADA Vanity Brackets: www.aandmhardware.com or equal.
- F. Concealed Countertop and Shelf Brackets: Fixed, concealed vertical leg, side-of-stud mounting.
 1. Materials: Steel L- and T-shapes.
 - a. Finish: Manufacturer's standard, factory-applied, powder coat.
 - b. Color: Black.
 - c. Size: Varies - refer to drawings

2. Products:
 - a. A&M Hardware, Inc; Concealed Brackets: www.aandmhardware.com/#sle.
 - b. A&M Hardware, Inc; Concealed Flat Brackets: www.aandmhardware.com/#sle.
 - c. Rakks/Rangine Corporation; Inside Wall Flush Mount Brackets: www.rakks.com/#sle.
 - d. Rakks/Rangine Corporation; Sill Support Bracket at Resident Room Picture Shelf
 - 1) 4" x 6"
 - 2) Finish: Unfinished
 - 3) Other manufacturers are acceptable as approved by Architect.
 - e. Substitutions: See Section 01 60 00 - Product Requirements (Non-Wold Master - For Reference Only).
- G. Drawer and Door Pulls: See Interior Material Finish/Color Schedule on the Drawings..
- H. Cabinet Locks: Grade 1, keyed cylinder, two keys per lock, master keyed, steel with satin finish.
- I. Cabinet Nurse Server Push-to-close/turn-to-open latch:
 1. Manufacturer: Southco
 - a. M1-2A-13-5 push-to-close latch (non-locking)
 - b. M1-2A-23-5 push-to-close latch (locking)
 2. Finish: Black.
- J. Drawer Slides:
 1. Type: Extension types as indicated.
 2. Static Load Capacity: Heavy Duty grade.
 3. Mounting: Side mounted.
 4. Stops: Integral type.
 5. Features: Provide self closing/stay closed type.
 6. Manufacturers:
 - a. Accuride International, Inc; Heavy-Duty Drawer Slides: www.accuride.com or equal.
 - b. Knape & Vogt Manufacturing Company; Heavy-Duty Drawer Slides: www.knapeandvogt.com.
 - c. Sugatsune America, Inc: www.sugatsune.com/#sle.
 - d. Substitutions: See Section 01 60 00 - Product Requirements (Non-Wold Master - For Reference Only).
- K. Hinges: European style concealed self-closing type, steel with nickel-plated finish.
 1. Manufacturers:
 - a. Blum, Inc: www.blum.com or equal.
 - b. Substitutions: See Section 01 60 00 - Product Requirements (Non-Wold Master - For Reference Only).

2.11 SHOP TREATMENT OF WOOD MATERIALS

- A. Provide UL (DIR) listed and approved identification on fire retardant treated material.
- B. Deliver fire retardant treated materials cut to required sizes. Minimize field cutting.

2.12 SITE FINISHING MATERIALS

- A. Finishing: Field finished, see Section 09 90 00.

2.13 FABRICATION

- A. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.
- B. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.
- C. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.

- D. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 2 feet from sink cut-outs. (Locate counter butt joints minimum 600 mm from sink cut-outs.)
 - 1. Apply laminate backing sheet to reverse side of plastic laminate finished surfaces.
 - 2. Cap exposed plastic laminate finish edges with plastic trim.
- E. Provide cutouts for plumbing fixtures. Verify locations of cutouts from on-site dimensions. Prime paint cut edges.

2.14 SHOP FINISHING

- A. Finish work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), Section 5 - Finishing for grade specified and as follows:

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify adequacy of backing and support framing.
- B. Verify location and sizes of utility rough-in associated with work of this section.

3.02 INSTALLATION

- A. Install work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade indicated.
- B. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.
- C. Use fixture attachments in concealed locations for wall mounted components.
- D. Use concealed joint fasteners to align and secure adjoining cabinet units.
- E. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch (0.79 mm). Do not use additional overlay trim for this purpose.
- F. Secure cabinets to floor using appropriate angles and anchorages.
- G. Countersink anchorage devices at exposed locations. Conceal with solid wood plugs of species to match surrounding wood; finish flush with surrounding surfaces.

3.03 ADJUSTING

- A. Adjust moving or operating parts to function smoothly and correctly.

3.04 CLEANING

- A. Clean casework, counters, shelves, hardware, fittings, and fixtures.

END OF SECTION 06 41 00

SECTION 10 28 13
TOILET, BATH, AND LAUNDRY ACCESSORIES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Feminine hygiene vendors and disposals.
- B. Grab bars.
- C. Healthcare accessories.
- D. Mirrors.
- E. Shelves.
- F. Shower and tub accessories.
- G. Specialty accessories.
- H. Toilet tissue dispensers.

1.02 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate work to receive anchor attachments with the placement of:
 - 1. internal wall reinforcement with Section 09 21 16 Gypsum Wallboard Assemblies.
 - 2. concealed ceiling supports with Section 05 50 00 Miscellaneous Metals.
 - 3. wood blocking with Section 06 10 53 Rough Carpentry-Wood Blocking.

1.03 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements for submittal procedures.
- B. Product Data: Submit data on accessories describing size, finish, details of function, and attachment methods.
 - 1. Provide a schedule indicating locations and quantities for each product being supplied or installed (for Owner provided items).
- C. Manufacturer's Installation Instructions: Indicate special procedures and conditions requiring special attention.

1.04 WARRANTY

- A. Special Mirror Warranty: Manufacturer's standard form in which manufacturer agrees to replace mirrors that develop visible silver spoilage or frame corrosion defects within specified warranty period.
 - 1. Warranty Period: 15 years.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Basis of Design Manufacturer (unless noted otherwise): American Specialties, Inc: www.americanspecialties.com.
 - 1. Similar products by one of the following manufacturers are acceptable:
 - 2. Bobrick Washroom Equipment: www.bobrick.com.
 - 3. Bradley Corporation: www.bradleycorp.com.
 - 4. GAMCO, a Bobrick Company: www.gamcousa.com.
- B. Basis of Design Manufacturer for Swing-up Grab Bar: GAMCO, a Bobrick Company: www.gamcousa.com.
- C. Basis of Design for Shower Curtain Rods: Moen Incorporated: www.moen.com.

2.02 CUSTODIAL ACCESSORIES

- A. Mop and Broom Holder (MH): 0.0375 inch (0.95 mm) thick stainless steel, Type 304, hat-shaped channel.
 - 1. Mounting: Surface.
 - 2. Holders: Cadmium-plated steel with spring-loaded rubber cam holders.
 - 3. Hooks: 14 gauge, 0.078 inch (1.98 mm) thick stainless steel rag hooks.
 - 4. Length: Manufacturer's standard length for number of holders.
 - 5. Products:
 - a. ASI Model 1315-4 - Surface Mounted.

2.03 FEMININE HYGIENE VENDORS AND DISPOSALS

- A. Sanitary Napkin Receptor Unit (SNR #_): Stainless steel, self-closing door, locking bottom panel with full-length heavy-duty stainless steel multi-staked piano hinge, removable receptacle.
1. Mounting: As indicated in product listing.
 2. Cabinet and Door: Fully welded, 22 gauge, 0.03 inch (0.76 mm) thick sheet.
 3. Products:
 - a. ASI Model 0852-SH - Sanitary Napkin Disposal with Shelf - Surface-mounted.
 - b. Provide at staff and public toilets.

2.04 GRAB BARS

- A. Grab Bars: Type 304 stainless steel.
1. Standard Duty Grab Bars:
 - a. Push/Pull Point Load: 250 lbf (1112 N), minimum.
 - b. OD: 1-1/2 inch (38 mm).
 - c. Tubing Thickness: 18 gauge, 0.05 inch (1.27 mm).
 - d. Flange Mounting: Concealed fasteners.
 - e. Clearance: 1-1/2 inch (38 mm) clearance between wall and inside of grab bar.
 - f. Finish: Smooth on ends and peened in grip area.
 - g. Length and Configuration: As indicated in product listing.
 - h. Products:
 - 1) ASI Model 3800 - Snap Flange, 1-1/2 inch (38 mm) OD, Smooth.
 - (a) GB # 1: 42 inch (1066.8 mm) horizontal and 18 inch (457.2 mm) vertical - used for toilet sidewall.
 - (b) GB # 2: 36 inch (914.4 mm) - used for toilet backwall.
 - (c) GB # 3: 18 inch (457.2 mm) - used for 36 x 36 shower - vertical sidewall.
 - (d) GB # 5: two walled 16 x 31 inches (406.4 x 787.4 mm) - used for 36 x 36 shower - horizontal.
 - (e) GB # 6: 36 inch (914.4 mm) sidewall and 48 inch (1219.2 mm) backwall - used for 36 x 60 shower - sidewall and back wall.
 2. Swing-up Grab Bars: Type 304 stainless steel and assembled into swivel hinge.
 - a. Standard Duty Grab Bars:
 - 1) Push/Pull Point Load: 500 lbs (226.79 kg) downward, minimum.
 - 2) OD: 1-1/4 inch (32 mm).
 - 3) Tubing Thickness: As indicated on Technical Data Sheet for selected GAMKO model.
 - 4) Flange Mounting: As indicated in product listing. Minimum 4 1/4 inch (6.35 mm) diameter bolts provided by installer.
 - 5) Flange Thickness: 3/16 inch (4.76 mm).
 - 6) Finish: Smooth on ends and peened in grip area.
 - 7) Integral Toilet Paper Holder.
 - 8) Products:
 - (a) GAMCO Model 125TPH.

2.05 MISCELLANEOUS ACCESSORIES

- A. Retractable Clothes Line: Retractable reel with zinc-plated steel mounting bracket and stainless steel cover, 72 inch (1828.8 mm) vinyl covered cord.
1. Products:
 - a. ASI Model 0712 - Retractable Clothes Line - Surface-mounted.

2.06 MIRRORS

- A. Mirrors (MIR #_): Stainless steel framed, 1/4 inch (6.35 mm) thick tempered safety glass, ASTM C1048.
1. Size: As indicated on the drawings.
 2. Angle Frame: 0.04 inch (1.02 mm) angle shapes, with mitered and welded and ground corners, and tamperproof hanging system; satin finish.

3. Backing: Full-mirror sized, minimum 0.03 inch (0.76 mm) galvanized steel sheet and nonabsorptive filler material.
4. Products:
 - a. ASI Model 0600 Series - Stainless Steel Inter-Lok Angle Frame - Plate Glass Mirror.
- B. Custom Wood Framed Mirrors (MIR #__)
1. Refer to ACCESSORY/EQUIPMENT SCHEDULE on sheet A4.101.

2.07 SHOWER AND TUB ACCESSORIES

- A. Shower Curtain Rod with Concealed Mounting (SCR): Stainless steel tube, 1 inch (25.4 mm) OD, 0.032 inch (0.81 mm) wall thickness, satin-finished, with 3 inch (76.2 mm) OD, minimum 0.04 inch (1.02 mm) thick satin-finished stainless steel flanges, for concealed mounting.
 1. Products:
 - a. ASI Model 1214-2 - Shower Curtain Rod - 1 inch (25.4 mm) OD Bar - Stainless Steel.
 - b. ASI Model 1224 - Shower Curtain Rod End Flanges - One Pair.
- B. Shower Curtain:
 1. Material: Nylon reinforced vinyl, 0.008 inch (0.2 mm) thick, matte finish, with antibacterial treatment, flameproof and stain resistant.
 2. Size: As required by drawings/application, hemmed edges.
 3. Grommets: Stainless steel; pierced through top hem on 6 inch (152.4 mm) centers.
 4. Color: White.
 5. Shower Curtain Hooks: Chrome-plated or stainless steel spring wire designed for snap closure.
 6. Products:
 - a. ASI Model 1200-SHU - Shower Curtain Hook - Stainless Steel.
 - b. For Splash Curtain ~~in Spa~~ **Resident Room Showers as indicated on plans**, custom size constructed shower curtain mounted with retractable clothesline.

2.08 SOAP AND HAND SANITIZER DISPENSERS

- A. Soap Dispenser (SD #__): Supplied by the Owner and installed by the Contractor.
- B. Hand Sanitizer Dispenser: Supplied by the Owner and installed by the Contractor.

2.09 SPECIALTY ACCESSORIES

- A. Towel Pin (TP): Single pin, concealed attachment.
 1. Pin Material: As indicated in product listing.
 2. Products:
 - a. Model 7301-B - Towel Pin - Satin Stainless Steel - Surface-mounted.
 - b. Provide one at each resident toilet room and other locations as noted on the drawings.
- B. Towel Ring (TR): Post with hanging ring, concealed attachment.
 1. Post and Ring Material: As indicated in product listing.
 2. Products:
 - a. Model 0785-Z - Towel Ring - Chrome Plated Zamak - Surface-mounted.
 - b. Provide one at each resident toilet room and other locations as noted on the drawings.
- C. Robe and Coat Hook (CH):
 1. Mounting: As indicated in product listing.
 2. Material and Finish: As indicated in product listing.
 3. Products:
 - a. Model 0745-Z - Robe Hook - Double - Chrome Plated Zamak - Surface-mounted.
 - b. Provide one at each toilet room and office and where indicated on the drawings.

2.10 TOILET TISSUE DISPENSERS

- A. Toilet Tissue Dispenser (TPH #__): Surface-mounted bracket type, stainless steel.
 1. Capacity: 1800 sheet standard core roll.
 2. Products:
 - a. Model 7305-2S - Toilet Tissue Holder - Double- Satin Stainless Steel - Surface-mounted.

2.11 MATERIALS

- A. Accessories - General: Shop assembled, free of dents and scratches and packaged complete with anchors and fittings, steel anchor plates, adapters, and anchor components for installation.
 - 1. Grind welded joints smooth.
 - 2. Fabricate units made of metal sheet or seamless sheets with flat surfaces.
- B. Keys: Provide 6 keys for each accessory to Owner.; master key lockable accessories.
- C. Stainless Steel Sheet: ASTM A666, Type 304.
- D. Stainless Steel Tubing: ASTM A269/A269M, Grade TP304 or TP316.
- E. Galvanized Sheet Steel: Hot-dipped galvanized steel sheet, ASTM A653/A653M, with G90/Z275 coating.
- F. Zinc Alloy: Die cast, ASTM B86.
- G. Mirror Glass: Tempered safety glass, ASTM C1048; and ASTM C1036 Type I, Class 1, Quality Q2, with silvering as required.
- H. Adhesive: Two component epoxy type, waterproof.
- I. Fasteners, Screws, and Bolts: Hot dip galvanized; tamperproof; security type.
- J. Expansion Shields: Fiber, lead, or rubber as recommended by accessory manufacturer for component and substrate.

2.12 FINISHES

- A. Stainless Steel: Satin finish, unless otherwise noted.
- B. Chrome/Nickel Plating: ASTM B456, SC 2, polished finish, unless otherwise noted.
- C. Baked Enamel: Pretreat to clean condition, apply one coat primer and minimum two coats epoxy baked enamel.
- D. Powder-Coated Steel: Clean, degrease, and neutralize. Follow immediately with phosphatizing treatment, prime coat, and two finish coats of powder coat enamel.
- E. Galvanizing for Items Other than Sheet: Comply with ASTM A123/A123M; galvanize ferrous metal and fastening devices.
- F. Shop Primed Ferrous Metals: Pretreat and clean, spray apply one coat primer and bake.
- G. Back paint components where contact is made with building finishes to prevent electrolysis.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Verify exact location of accessories for installation.
- C. For electrically-operated accessories, verify that electrical power connections are ready and in the correct locations.
- D. Verify that field measurements are as indicated on drawings.
- E. Coordinate installation of blocking, reinforcing plates, and concealed anchors in walls and ceilings with Section 06 10 53 and multiple studs at grab bars, wall mounted benches and baby changing stations with Section 09 21 16.

3.02 PREPARATION

- A. Deliver inserts and rough-in frames to site for timely installation.
- B. Provide templates and rough-in measurements as required.

3.03 INSTALLATION

- A. Install accessories in accordance with manufacturers' instructions in locations indicated on drawings.
- B. Mounting Heights: As required by accessibility regulations, unless otherwise indicated on t.

3.04 PROTECTION

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

END OF SECTION 10 28 13

SECTION 23 09 93
BAS SEQUENCE OF OPERATIONS

PART 1 GENERAL

1.01 SUMMARY

- A. This Section includes control sequences for HVAC systems, subsystems, and equipment.
- B. The Section includes Control Sequences and Points Schedule For:
 - 1. Dedicated Outside Air Systems
 - 2. Exhaust Fans – Scheduled On/Off
 - 3. Cabinet Unit Heaters
 - 4. Horizontal Unit Heaters
 - 5. Finned Tube Radiation
 - 6. Duct Coils
 - 7. Fan Coil Units
 - 8. Ceiling-Mounted or Wall-Mounted Computer Room Air Conditioning Units
 - 9. Humidifier HU-#
 - 10. Miscellaneous

1.02 DEFINITIONS

- A. DDC: Direct digital control.
- B. VAV: Variable air volume.

1.03 CONTROL SEQUENCES

- A. Refer to the attached control sequences and points schedule for required Building Automation Systems work.

PART 2 PRODUCTS - NOT APPLICABLE

PART 3 EXECUTION

3.01 GENERAL REQUIREMENTS

- A. System Programming: Provide the most current version of the system software that is available prior to the date of substantial completion.
 - 1. It is the intent that the system be as easy as possible for the building operator to navigate. Modify the system programming and graphics as to include descriptors of the actual equipment names in addition to point mapping acronyms. In addition provide the following front-end graphic interface features:
 - a. Graphic representation of each piece of equipment.
 - b. Configuration of major systems including but not limited to central plants.
 - c. Control points displayed on each page. Coordinate with the Owner's representative as to level of detail to include on each page.
 - d. Major equipment including air handling equipment graphics shall include a secondary text page with detailed system points and parameters. Coordinate with the Owner's representative as to level of detail to include on each page.
 - e. Navigation tools and page links. Provide additional navigation features at the request of the Owner.
 - f. Building floor plan graphics showing air handling unit zone boundaries.
 - g. Building floor plan graphics showing each temperature control zone with space temperatures represented.
 - h. Building floor plan graphics with lighting control zones.
 - i. Building floor plan graphics to show exhaust fan locations.
 - j. A graphic page to show utility use summary information.
 - k. Graphic page to show a summary of equipment time of day schedules.
 - l. Graphic page to show a summary of dirty filter alarms.
 - 2. For all existing equipment, compare the currently installed control program to the control sequences published here in and submit a report to the engineer of discrepancies in the control intent. At the direction of the engineer, modify the existing control sequences as required.

3. Complete the time of day program scheduling for all equipment at the direction of the Owner's representative. Modify the equipment schedules as necessary to associate equipment in control groups to minimize the number of schedules in the system. Provide a global holiday schedule for all equipment in the building.
4. Coordinate with the Owner's representative for the initial temperature setpoints for each space.
- B. Building Automation System Alarms: Alarms generated by the building systems shall be categorized as either critical or non-critical and be handled with the attributes as listed in items 1 and 2 below. Any alarms identified in specific control sequences that are in addition to those listed below shall be handled as non-critical alarms.
 1. Critical Alarms:
 - a. Only generated when the alarmed system is enabled.
 - b. Send an email notification to the Owner's personnel as designated 24 hours a day, 7 days a week.
 - c. Log all critical alarms to server log.
 - d. Generate pop up alarm box at the local display for building personnel as defined by user log-in.
 2. Non-Critical Alarms:
 - a. Only generated when the alarmed system is enabled.
 - b. Log all non-critical alarms on server log.
 - c. Generate pop-up alarm box at the local display for building personnel as defined by user log-in.
 3. All Space Temperature Sensors:
 - a. Critical:
 - 1) Space temperature less than 45 degrees Fahrenheit (7.22 degrees Celsius). for a time period greater than 15 minutes.
 4. AHU/RTU – Constant Volume: Space temperature variation setpoint color-coded on floor plan graphic. All space temperatures are critical alarmed if less than 45 degrees Fahrenheit (7.22 degrees Celsius). for a time period greater than 15 minutes.
 - a. Non-Critical:
 - 1) Freeze-stat
 - 2) Duct smoke detector
 - 3) Static safety switches
 - 4) Filter differential pressure
 - 5) High discharge air temperature exceeds 110 degrees Fahrenheit (43.33 degrees Celsius). for a time period greater than 15 minutes
 - 6) Low discharge air temperature less than 38 degrees Fahrenheit (3.33 degrees Celsius). for a time period greater than 15 minutes
 - 7) Supply fan status
 5. Data room – space temperature greater than 78 degrees Fahrenheit (25.56 degrees Celsius) for a time period greater than 15 minutes.
 6. Unit Heaters and Cabinet Unit Heaters:
 - a. Critical:
 - 1) Space temperature is less than 45 degrees Fahrenheit (7.22 degrees Celsius) for a time period greater than 15 minutes
 - b. Non-Critical:
 - 1) Fan status
 7. Miscellaneous:
 - a. Critical:
 - 1) Generator alarm

3.02 CONTROL SEQUENCE AND POINTS SCHEDULE

FOR: DEDICATED OUTSIDE AIR SYSTEMS WITH HEAT RECOVERY

A. General:

1. Air Handling Systems: All equipment indicated shall be controlled by the same software defined occupied/unoccupied schedule through the Building Automation System. The operator shall have the option of scheduling each induction displacement unit and chilled beam zone separately.
 - a. **AREA SERVED: A, B, & C**
 - Dedicated Outside Air Unit AHU-1
 - Dedicated Outside Air Unit AHU-2
 - Dedicated Outside Air Unit AHU-3
 - Energy Recovery Ventilator ERV-1
 - Energy Recovery Ventilator ERV-2
 - Energy Recovery Ventilator ERV-3
2. Provide the supply and exhaust fan variable speed drives. Installation by Div 26 contractor. Refer to schedules for quantities.
3. Provide the outside air and exhaust air electric damper actuators. All dampers are furnished and installed by the DOAS unit manufacturer.
4. Provide the hot water coil valves and electric actuators; refer to equipment schedules for 2 or 3 way valves. Installation specified under another DIV 23 section.
5. Smoke detectors are furnished and installed by the Electrical Contractor. Coordinate requirements.
6. Provide and wire static pressure safety switches.
7. Provide and wire all electrical interlocks to other equipment associated with this system, as indicated or otherwise necessary for proper system operation.
8. Provide and wire a carbon dioxide sensor in the return air stream for monitoring purposes only.

B. Control Sequence:

1. Occupied Mode:
 - a. The system shall be capable of being indexed to occupied mode by a timeclock schedule through the EMCS, initial schedule 24/7 (adj).
 - b. All fans associated with this system shall run continuously.
 - c. The outside air and exhaust air dampers shall open fully.
 - d. Fan Capacity Control:
 - 1) Provide a "soft start" ramp function to bring fans to speed slowly.
 - 2) Provide a duct static pressure sensor and PID control loop to set the supply fan speed control to maintain the duct static pressure setpoint (software adjustable).
 - 3) Work with test and balance contractor to set the duct static pressure setpoint.
 - e. Building Pressure Control:
 - 1) The system is designed for 100% outside air with each area served being slightly positive. There is no active building pressurization control.
 - f. Discharge Air Temperature Reset:
 - 1) The discharge air shall be reset between a minimum and maximum temperature operator adjustable setpoint. The maximum temperature shall be initially set for 65.0 degrees. The minimum temperature shall be initially set for 55.0 degrees. Upon initial system start-up, the system shall start at 55.0 degrees for cooling and 60 degrees for heating.
 - g. DX Coil Control:
 - 1) The Condensing unit shall operate on its own controls to maintain the discharge air temperature setpoint.
 - h. Hot Water Valve Control:
 - 1) The system shall be indexed to the heating mode when hot water is available, or the outside air is below 10°F (adj).
 - 2) The heating coil valve shall modulate to maintain a coil leaving air temperature of 70°F.

2. Safeties:

- a. Smoke - Transmit alarm to EMCS when smoke is detected in duct system.
- b. Static Pressure Switch - Provide a static pressure sensor and safety switch located in the unit outside air and relief air chambers, supply duct, and return duct to shutdown supply fans and return fans, and transmit an alarm to the EMCS, when the static pressure is below the setpoint of the sensor.
- c. High Discharge Air Temperature - De-energize fan and transmit alarm to EMCS when the discharge air temperature exceeds 90.0 degrees.
- d. Low Discharge Air Temperature - De-energize fan and transmit alarm to EMCS when the discharge air temperature drops below 45.0 degrees.

C. Alarms:

1. Generate an alarm when one of the following devices trips:
 - a. Duct Smoke Detectors
 - b. OA Air Static Safety Switch
 - c. Supply Air Static Safety Switch.
 - d. Relief Air Static Safety Switch
2. Generate an alarm when the exhaust fan control is on but the status of the exhaust fans is off.
3. Generate an alarm when the supply fan control is on but the status of the supply fan is off.
4. Generate an alarm when the discharge air temperature is 5°F above or below the setpoint for more than a 10-minute duration (all variables operator adjustable).
5. Generate an alarm when the discharge air static pressure is 0.5" wc above or below the setpoint for more than a 5 minute duration (all variables operator adjustable).
6. Generate an alarm when the mixed air temperature is 45°F or below for more than a 5 minute duration (all variables operator adjustable).
7. Generate an alarm if the filter differential pressure is above setpoint (each filter). Display the filter alarms on a global filter summary page for the building.

D. Points Schedule:

1. Provide at a minimum the following control points for each system and as required to accomplish the indicated control sequences.

(DO)	Supply Fan Control (each)	(AI)	Filter Differential Pressure (Each)
(DI)	Supply Fan Status (Current Sensor) (each)	(AO)	OA Damper Modulation
(DO)	Exhaust Fan Control (each)	(AO)	Relief Air Damper Modulation
(DI)	Exhaust Fan Status (Current Sensor) (each)	(AI)	Supply Duct Static Pressure
(AO)	Supply VFD Modulation (each)	(DI)	Smoke Alarm
(AO)	Exhaust VFD Modulation (each)	(AI)	Building Differential Static Pressure
(AI)	Discharge Air Temperature	(AO)	HW Valve Modulation (Each Valve)
(AI)	Outside Air Temperature	(AO)	DX Coil Modulation (Each)
(AI)	Return Air Temperature	(AI)	Outside Air Enthalpy
(AI)	Exhaust Air Temperature	(DI)	Supply Airflow Status
		(AI)	Return Air Carbon Dioxide Level

3.03 CONTROL SEQUENCE AND POINTS SCHEDULE

FOR: VRF HEAT PUMP SYSTEM CONTROL

A. Gener

1. The VRF System comes with factory packaged controls furnished and installed by another Division 23 contractor. System will have BACnet gateway. Connect to BACnet gateway to receive all points as described here-in. Intent is Owner can monitor and edit inputs (some), but not change factory sequence/s.
2. Provide new floorplan graphics for equipment status and temperature indication in each space. Pull status and temps from VRF BACnet controls.
3. Wire to room occupancy sensors provided by Division 26. Override room temperature setpoint within +/- 5°F range (adjustable for each zone), when room is unoccupied.

B. Control Sequence

1. Occupied Mode

- a. The VRF system shall be controlled by a software defined occupied/unoccupied scheduled through the BAS. It is the BAS contractor's responsibility to program all occupied/unoccupied schedules for all VRF fan coils.
- b. All space temperature setpoints shall be able to be communicated from the BAS to the VRF system through the BACnet gateway.

C. Points Schedule

Provide at a minimum the following control points for each system and as required to accomplish the control sequences indicated.

(DO)	VRF System Enable/Disable	(DI)	VRF Equipment Status (each component)
(DI)	Space Temperature (each zone)	(DI)	Occupancy Sensor (each)

Provide the following mapped points from the BACnet Gateway from the VRF control system. Inputs shall be editable and most points monitored only. Editable inputs noted below:

On/Off State, Number of On/Off, Cumulative Operation time

All alarms

Room Temp (Editable)

Set Temp (Editable)

Set Temp Heat (Editable)

Set Temp Cool (Editable)

Set Temp Auto (Editable)

Filter Sign

Filter Sign Reset (Editable)

M-NET Communication State

System Forced Off

Air Direction Setup (Editable)

Air Direction State

Set High Limit Setback Temp (Editable)

Set Low Limit Setback Temp (Editable)

Group Apportioned Electric Energy

Interlocked Units Electric Energy

Trend Log Room Temp

Trend Log Room Temp

Trend Log Interlocked Units Electric Energy

3.04 CONTROL SEQUENCE AND POINTS SCHEDULE FOR: EXHAUST FANS – SCHEDULED ON/OFF

A. General

1. Exhaust fans as indicated on the drawings and unless indicated to be controlled by another method, shall be controlled on/off by a time of day schedule through the BAS system.
2. Each fan shall be capable of being individually controlled. The final time of day schedules and how systems may be grouped together shall be reviewed and approved by the Owner prior to occupancy.
3. 480/3 volt exhaust fans are furnished with magnetic contactors or motor starter/switches by Division 26. Division 23 to provide all required control relays for all exhaust fans. Coordinate an accessible relay location for installation by Division 26.
4. Provide motorized dampers and 2-position electric actuators where noted on the drawings. Coordinate connection requirements to each fan with the fan manufacturer. Provide the damper actuator with a compatible voltage, damper end switch, and control transformer where necessary. Damper installation by another DIV 23 section.
5. Provide and wire all electrical interlocks to other equipment associated with this system, as indicated or otherwise necessary for proper system operation.

B. Control Sequence

1. Occupied Control
 - a. Enable each exhaust fan to run continuously.
 - b. For exhaust fans provided with motorized dampers, the damper shall prove fully open prior to enabling the exhaust fan.
 - c. For exhaust fans serving areas where hazardous or fume producing materials are stored (i.e. chemical storage rooms) shall be initially scheduled to run continuously.
2. Unoccupied Control
 - a. Disable each exhaust fan off.
 - b. For exhaust fans with motorized dampers, fully close the damper when the fan is disabled.

C. Alarms

1. Generate an alarm if the fan is enabled and its status is off.

D. Points Schedule

1. Provide at a minimum the following control points for each system and as required to accomplish the control sequences indicated.
 - (DO) Exhaust Fan Control
 - (DI) Exhaust Fan Status
 - (DO) Motorized Damper Control
 - (DI) Motorized Damper End Switch
 - (DI) Momentary Push Button

3.05 CONTROL SEQUENCE AND POINTS SCHEDULE FOR: CABINET UNIT HEATERS

A. General

1. Provide a space temperature sensor and control sequence for each cabinet unit heater.
2. Provide 2-way modulating heating control valves and actuators. Installation is work of another Division 23 Section.
3. Provide and wire a surface mounted aquastat. Coordinate installation with the Division 26 contractor.
4. The unit heaters shall be indexed between its occupied and unoccupied modes by a timeclock schedule through the BAS system.

B. Control Sequence

1. Occupied Mode

- a. The heating coil valve shall modulate open to maintain a space temperature setpoint initially set for 68.0 Deg F (adjustable).
- b. An aquastat mounted on the return hot water line shall de-energize fan motor when fluid temperature falls below setpoint of aquastat (adjustable). The aquastat and the space temperature call for heat shall be wired in series such that the unit heater fan will run only if there is a call for heat and there is hot water available in the system.
- c. To comply with the Energy Code, the space temperature setpoint for unit heaters serving vestibules shall be set for 60.0 Deg F and the control valve shall be fully closed and the operation locked out when the outside air temperature is greater than 45.0 Deg F.

2. Unoccupied Mode

- a. The heating coil valve shall modulate open to maintain a unoccupied space temperature setpoint initially set for 50.0 Deg F (adjustable).
- b. The aquastat and the space temperature call for heat shall be wired in series such that the unit heater fan will run only if there is a call for heat and there is hot water available in the system.
- c. To comply with the Energy Code for unit heaters serving vestibules, the control valve shall be fully closed and the operation locked out when the outside air temperature is greater than 45.0 Deg F.

C. Alarms

1. Generate an alarm when space temperature drops 5°F below setpoint for 5-minute duration in heating mode.

D. Points Schedule

1. Provide at a minimum the following control points for each system and as required to accomplish the control sequences indicated.
(AI) Space Temperature
(AO) Heating Valve Modulation
(AI) Outside Air Temperature

3.06 CONTROL SEQUENCE AND POINTS SCHEDULE FOR: HORIZONTAL UNIT HEATERS

A. General

1. Provide a space temperature sensor and control sequence for each horizontal unit heater.
2. Provide 2-way modulating heating control valves and actuators. Installation is work of another Division 23 Section.
3. Provide and wire a surface mounted aquastat. Coordinate installation with the Division 26 contractor.
4. The unit heaters shall be indexed between its occupied and unoccupied modes by a timeclock schedule through the BAS system.

B. Control Sequence

1. Occupied Mode

- a. On a call for heat from a space temperature sensor, the heating valve shall modulate open, to maintain a temperature setpoint of 70.0 degrees.
- b. An aquastat mounted on the return hot water line shall de-energize fan motor when fluid temperature falls below setpoint of aquastat (adjustable). The aquastat and the space temperature call for heat shall be wired in series such that the unit heater fan will run only if there is a call for heat and there is hot water available in the system.

2. Unoccupied Mode

- a. On a call for heat from a space temperature sensor, the heating valve shall modulate open to maintain a temperature setpoint of 55.0 degrees.
- b. An aquastat mounted on the return hot water line shall de-energize fan motor when fluid temperature falls below setpoint of aquastat (adjustable). The aquastat and the space temperature call for heat shall be wired in series such that the unit heater fan will run only if there is a call for heat and there is hot water available in the system.

C. Alarms

1. Generate an alarm when the space temperature drops 5°F below setpoint for a 5-minute duration.

D. Point Schedule

1. Provide at a minimum the following control points for each system and as required to accomplish the control sequences indicated.
(AI) Space Temperature
(AO) Heating Valve Modulation

3.07 CONTROL SEQUENCE AND POINTS SCHEDULE FOR: FINNED TUBE RADIATION

- A. General
 - 1. Provide a space temperature sensor and control sequence for each heating terminal device. Refer to the drawings for system configuration and additional information regarding temperature control zones.
 - 2. Provide 2-way modulating heating control valves and actuators. Installation is work of another Division 23 section.
 - 3. The system shall be indexed between their occupied and unoccupied modes by a timeclock schedule through the BAS system.
- B. Control Sequence
 - 1. Occupied Mode
 - a. On a call for heating, the radiation valves shall open 25% (operator adjustable) before the heating coil valve associated with the air handling unit heating zone begins to modulate. On a continued call for heat, the reheat valve shall modulate in unison with the radiation valve to maintain a temperature setpoint of 72.0 degrees.
 - 2. Unoccupied Mode
 - a. On a call for heating from the space temperature sensor, the heating valve shall modulate open to maintain a space temperature setpoint of 55.0 degrees.
 - b. For areas also served by air handling systems, the finned tube radiation valve shall be fully open prior to the air handling unit heating zone sending a request for heating.
- C. Alarms
 - 1. Generate an alarm when the space temperature drops 5°F below setpoint for a 5-minute duration in the heating mode.
- D. Point Schedule
 - 1. Provide at a minimum the following control points for each system and as required to accomplish the control sequences indicated.
 - a. (AI) Space Temperature
 - b. (AO) Reheat Valve Modulation
 - c. (AO) Radiation Valve Modulation

3.08 CONTROL SEQUENCE AND POINTS SCHEDULE FOR: DUCT COILS

A. General

1. Provide a space temperature sensor and control sequence for each duct coil. Refer to the drawings for additional information. Duct coils serving multiple rooms may have multiple sensors.
2. Provide 2-way modulating heating control valves and actuators. Installation is work of another Division 23 section.
3. The system shall be indexed between their occupied and unoccupied modes by a timeclock schedule through the BAS system.

B. Control Sequence

1. Occupied Mode

- a. Radiation (if applicable) shall be first stage of heat, prior to modulating the reheat valve open. Refer to radiation control sequence.
- b. On a call for heating from the space temperature sensor, the heating valve shall modulate open to maintain a temperature setpoint of 72.0 degrees. When the heating valve is fully open and space temperature is below setpoint, send a heating request to the air handling system. When the heating valve is fully closed and the space temperature is above setpoint, send a cooling request to the air handling system.
- c. The reheat coil valve shall be modulated to maintain a discharge air temperature between a minimum temperature initially set for 50.0 Deg F (adjustable) and a maximum temperature initially set for 115 Deg F (adjustable).

2. Unoccupied Mode

- a. Where finned tube radiation is installed, it shall be the first stage of heat. The finned element control valve shall modulate open to maintain an unoccupied temperature setpoint initially set for 55.0 Deg F. Refer to the radiation control sequence.
- b. When the radiation control valve is in the full open position and the space temperature drops below heating setpoint plus a 3 Deg F differential, then a heating request shall be sent to the associated air handling unit.
- c. The coil control valve shall be closed unless the associated air handling system is in operation and a "heating available" signal has been broadcast over the network by the central plant control module. On a call for heating from the space temperature sensor, the heating valve shall modulate open to maintain the unoccupied temperature setpoint.
- d. When the coil control valve is fully open and the space is still below the unoccupied setpoint plus a 3 Deg F differential, then a "heating request" shall be transmitted over the network to the respective air-handling unit. Reset the discharge air temperature as described under the air handling unit sequence.

C. Alarms

1. Generate an alarm when the space temperature drops 5°F below setpoint for a 5-minute duration in the heating mode.

D. Point Schedule

1. Provide at a minimum the following control points for each system and as required to accomplish the control sequences indicated.
 - (AI) Space Temperature
 - (AO) Heating Valve Modulation
 - (AI) Discharge Air Temperature

3.09 CONTROL SEQUENCE AND POINTS SCHEDULE FOR: CEILING-MOUNTED OR WALL-MOUNTED COMPUTER ROOM AIR CONDITIONING UNITS

A. General

1. The computer room cooling units are split direct expansion systems including an evaporator unit installed in the space and a remote condensing unit. Refer to the drawings for additional information as to system quantity and configuration.
2. All controls are provided with the unit by another Division 23 Section. Refer to other Division 23 sections for additional information. The Building Automation System contractor shall install and wire all controls as required for the complete operation of the unit. Coordinate installation requirements with the unit manufacturer.
3. Provide space temperature sensor.

B. Control Sequence

1. All controls provided by another Division 23 section. There is no control sequence associated with this equipment.

C. Alarms

1. Generate an alarm if the space temperature is greater than 5°F above setpoint for a period greater than 30 minutes.

D. Points Schedule

1. Provide at a minimum the following control points and as required to accomplish the control sequences indicated.
(AI) Space Temperature

3.10 CONTROL SEQUENCE AND POINTS SCHEDULE FOR: HUMIDIFIERS HU-1, HU-2, HU-3

A. General

1. The humidifier is a self-contained electric resistance canister style humidifier.
2. Install and wire the humidistat and other field installed control components provided with the humidifier. Coordinate connection requirements with the equipment manufacturer. In addition, provide a space humidity sensor for remote monitoring of the space humidity on the automation system front-end.
3. Display space humidity on the front-end automation system graphics.

B. Control Sequence

1. The humidifier shall be enabled by the space humidity sensor and operate on its internal controls to maintain the space humidity set point.

C. Alarms

1. Generate an alarm when the space humidity is less than 30% for a time period greater than 30 minutes.

D. Points Schedule

1. Provide at a minimum the following control points for each system and as required to accomplish the indicated control sequences.
(AI) Space Humidity

3.11 CONTROL SEQUENCE AND POINT SCHEDULE FOR: MISCELLANEOUS

A. General

1. Provide run status, *engine temperature, load*, and fault alarm on each emergency generator and status of each emergency generator transfer switch. Refer to the electrical drawings quantities and locations. Coordinate with the equipment manufacturer and Division 26 contractor for connection requirements. Provide additional equipment and components, as may be necessary to complete the connections.
2. The Temperature Controls Contractor shall request and coordinate, in advance, the work with the electrical power supplier to receive a proper demand pulse/signal (3-wire pulse). Fees or service charges to attain the required signal shall be paid by this contractor. Provide required meters, relays, and related wiring, equipment, and connections for a complete and fully operable system. Modify the home page on the front-end graphics to include an electric use summary including peak demand and daily, weekly, and annual totals.
3. *Tie into dry contacts provided in electric meter of the main switchboard to monitor electrical usage. Main switchboard furnished and installed by Div. 26. Coordinate requirements.*

B. Alarms

1. Generate an alarm when the generator has a fault alarm.

C. Point Schedule

1. Provide at a minimum the following control points for each system and as required to accomplish the control sequences indicated.
 - (AI) Electric Demand
 - (DI) Generator Status ~~(each)~~
 - (DI) Generator Fault ~~(each)~~
 - (DI) Transfer Switch Status (each)
 - (AI) Generator Load*
 - (AI) Generator Engine Temperature*
 - (AI) Transfer Switch Demand (each)*

3.12 CONTROL SEQUENCE AND POINT SCHEDULE FOR: EXISTING AREA A SOUTH VRF HEAT PUMP SYSTEM CONTROL

A. General

1. The existing Mitsubishi VRF System serving the south half of Area A came with factory packaged controls. Add BACnet gateway in order to have BAS communicate with existing VRF system. Connect to BACnet gateway to receive all points as described here-in. Intent is Owner can monitor and edit inputs (some), but not change factory sequence/s.
2. Provide new floorplan graphics for equipment status and temperature indication in each space. Pull status and temps from VRF BACnet controls.

B. Control Sequence

1. Occupied Mode
 - a. The VRF system shall be controlled by a software defined occupied/unoccupied scheduled through the BAS. It is the BAS contractor's responsibility to program all occupied/unoccupied schedules for all VRF fan coils.
 - b. All space temperature setpoints shall be able to be communicated from the BAS to the VRF system through the BACnet gateway.

C. Points Schedule

Provide at a minimum the following control points for each system and as required to accomplish the control sequences indicated

(DO)	VRF System Enable/Disable	(DI)	VRF Equipment Status (each component)
(DI)	Space Temperature (each zone)		

Provide the following mapped points from the BACnet Gateway from the VRF control system. Inputs shall be editable and most points monitored only. Editable inputs noted below:

On/Off State, Number of On/Off, Cumulative Operation time
All alarms
Room Temp (Editable)
Set Temp (Editable)
Set Temp Heat (Editable)
Set Temp Cool (Editable)
Set Temp Auto (Editable)
Filter Sign
Filter Sign Reset (Editable)
M-NET Communication State
System Forced Off
Air Direction Setup (Editable)
Air Direction State
Set High Limit Setback Temp (Editable)
Set Low Limit Setback Temp (Editable)
Group Apportioned Electric Energy
Interlocked Units Electric Energy
Trend Log Room Temp
Trend Log Group Apportioned Electric Energy
Trend Log Interlocked Units Electric Energy

END OF SECTION 23 09 93

A

6
7
8

MISCELLANEOUS

TILE

ACOUSTIC TILE

PLASTER

ON METAL LATH

EXPANSION JOINT MATERIAL

SYMBOLS

PARTITIONS

METAL STUD

WOOD STUD

MASONRY

BRICK & BLOCK

CAVITY WALL

EXISTING EXISTING

GLAZED OPENING

CONCRETE/
PRECAST

DEMOLISHED

EARTH

EARTH

GRANULAR FILL

SAND

CONCRETE

MASONRY/STONE

BLOCK

BRICK

MORTAR NET

CUT STONE

METAL

FERROUS

ALUMINUM

OTHER

WOOD

CONSTRUCTION LUMBER

FINISHED

PLYWOOD

PARTICLE BOARD

INSULATION

BATT

RIGID

SPRAY FOAM

GRANULAR LOOSE

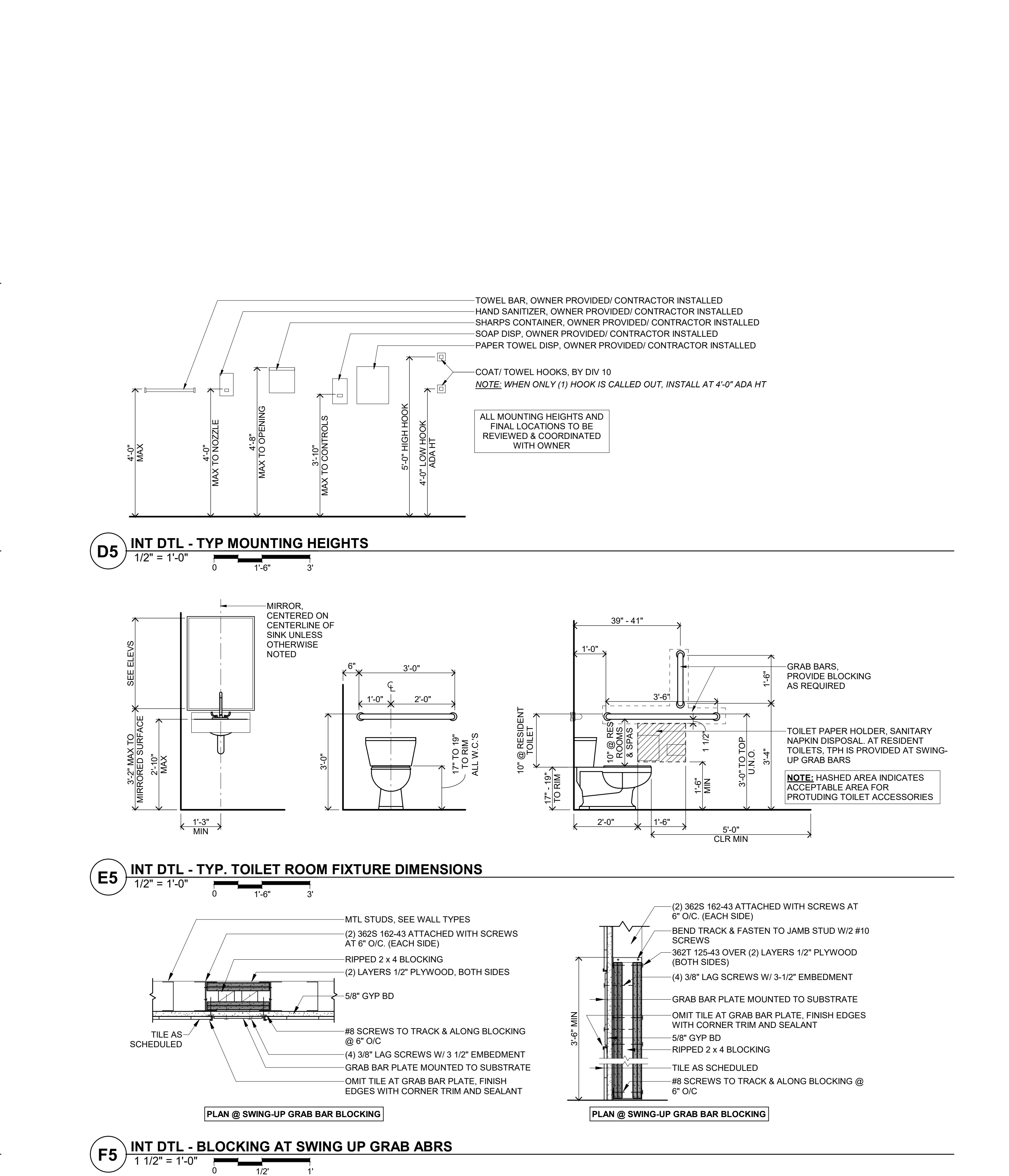
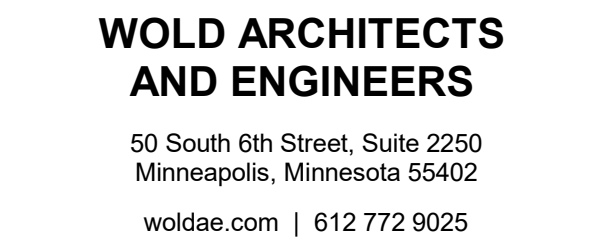
MISCELLANEOUS

EXISTING

EXISTING

DEMOLISHED

246040
Vivie
2209 Jefferson St. Suite 201
Alexandria, MN 56308



Comm: **246040**
Date: **08/29/2025**
Drawn: **JDV/ CN**
Check: **EN**


North

Scale: As indicated

100% CD SET A0.001

A0.001

A

420 12th Ave E,
Alexandria, MN 56308

Vivie
2209 Jefferson St. Suite 201
Alexandria, MN 56308

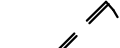


50 South 6th Street, Suite 2250
Minneapolis, Minnesota 55402
woldae.com | 612 772 9025



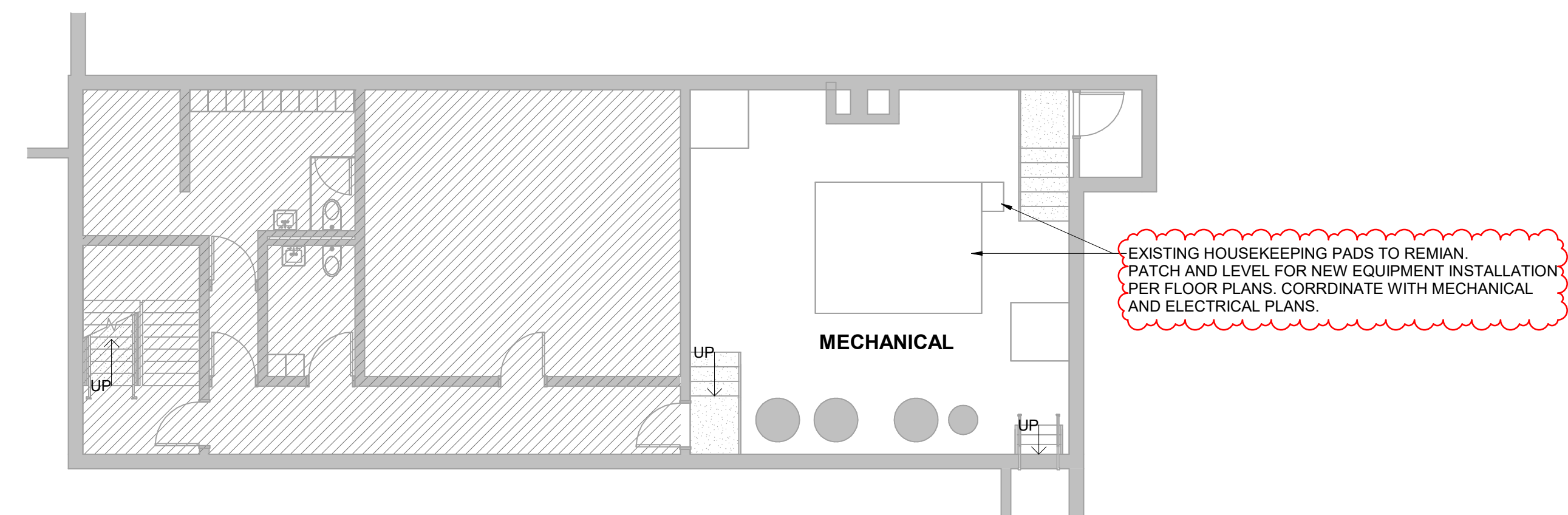
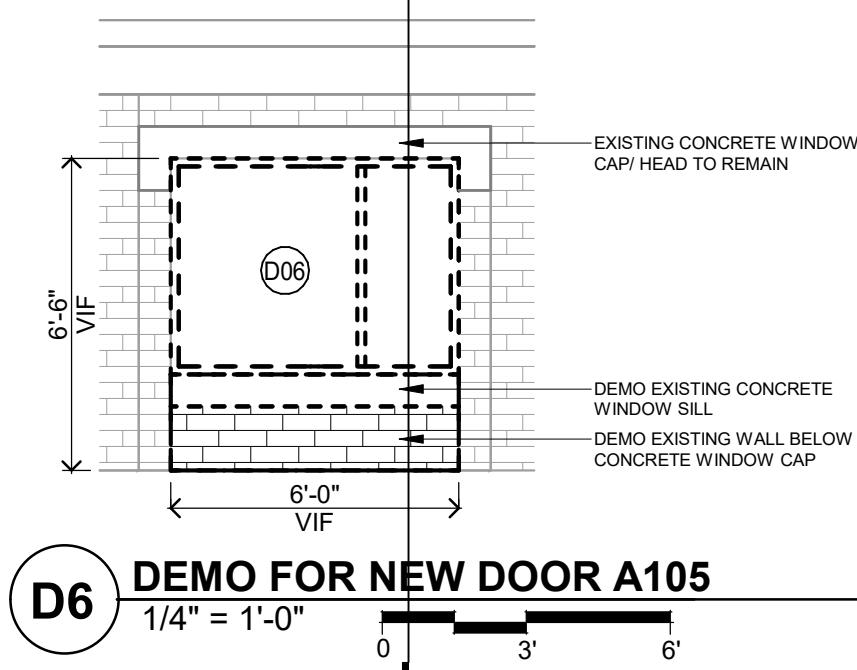
- 1 DEMOLITION NOTIONS APPLY TO ALL DRAWING SHEETS. DEMOLITION NOTIONS AND PLANS ARE PROVIDED AS A GUIDE ONLY. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND
2 EXAMINE DRAWINGS AND DETAILS TO DETERMINE EXTENT AND LIMITS OF DEMOLITION REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
3 DEMOLITION NOTES AND DETAILS ARE TO BE USED IN ADDITION TO THE NOTIONS AND PLANS. THE NOTIONS AND PLANS APPLY TO THE ENTIRE PROJECT.
4 CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL ASPECTS OF DEMOLITION WORK. CONTRACTOR TO REVIEW ALL DRAWINGS FOR ADDITIONAL DETAILS AND CONSTRUCTION
5 SEQUENCING NOTIONS. MECHANICAL AND ELECTRICAL DEMOLITIONS ARE SHOWN ON MECHANICAL AND ELECTRICAL DRAWINGS.
6 PROVIDE AND COORDINATE ALL DEMOLITION AND RECONSTRUCTION WITH NEW WORK PLAN DIMENSIONS AND INSTALLATION OF NEW MATERIALS AND FINISHES, AS REQUIRED,
7 TO INDICATE THE LOCATION OF NEW WORK AND THE LOCATION OF EXISTING WORK TO BE REMOVED.
8 REFER TO MECHANICAL AND ELECTRICAL FOR ADDITIONAL DEMOLITION NOTIONS.
9 ALL RELATED WORK BLOCKING SUPPORT STRUCTURE, HARDWARE CONNECTION DEVICES, ADHESIVES, AND/OR MASTIC SHALL BE REMOVED FROM SURFACES AT ITEMS NOTED FOR
10 REMOVAL. PROVIDE SURFACES ACCEPTABLE FOR PATCHING AND NEW WORK.
11 ALL PATCHING REQUIRED ADJACENT TO DEMOLITION WILL BE THE RESPONSIBILITY OF THE G.C.
12 DASHED LINES INDICATE EXISTING TO BE REMOVED.
13 EXISTING EXISTING PROPOSED CONDITIONS & DIMENSIONS.
14 REMOVE ALL EXISTING FINISHES, ADHESIVES OR OTHER MATERIALS THAT WILL CONFLICT WITH NEW FINISHES SCHEDULED IN EXISTING OR NEWLY REMODELED SPACES. REMOVE
15 EXISTING FINISHES REQUIRED TO BE REMOVED ALONG WITH PARTITIONS, CEILINGS, BASES AND FLOORING ON WHICH THE FINISH ATTACHED.
16 REMOVE ALL EXISTING PARTITIONS, MECHANICAL AND ELECTRICAL MATERIAL NOT NECESSARILY SHOWN, BUT REQUIRED TO BE REMOVED TO COMPLETE WORK. TURN ALL SALVAGEABLE ITEMS
17 OVER TO THE OWNER.
18 REMOVE ALL OR ANY GENERAL, MECHANICAL AND ELECTRICAL MATERIAL NOT NECESSARILY SHOWN, BUT REQUIRED TO BE REMOVED TO COMPLETE WORK.
19 ALL CUTTING AND PATCHING REQUIRED FOR NEW MECHANICAL AND ELECTRICAL WORK IN EXISTING SPACES SHALL BE BY REPECTIVE CONTRACTORS.
20 CONTRACTOR TO VERIFY WITH OWNER THAT HAZARDOUS MATERIAL SURVEY HAS BEEN COMPLETED FOR MATERIALS TO BE REMOVED/DISTURBED.
21 THE SCHEDULE OF EXISTING FINISHES IS INCLUDED FOR THE CONTRACTORS' BENEFIT ONLY. THE CONTRACTOR SHALL VERIFY ALL EXISTING FINISHES AND CONDITIONS BEFORE
22 CONSTRUCTION.
23 CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK PHASING AND SEQUENCING WITH OWNER PRIOR TO START OF CONSTRUCTION.
24 ERECT DUST-PROOF PARTITIONS AS REQUIRED BY OWNER AND FIRE MARSHALL TO PROTECT ADJACENT AREA DURING CONSTRUCTION.
25 MAINTAIN ALL REQUIRED EXITS AND MEANS OF EGRESS DURING CONSTRUCTION.
26 PROTECT ALL MECHANICAL AND ELECTRICAL SERVICES AS REQUIRED TO REMAIN IN OPERATION.
27 REMOVE CEILING TILES (AND GRID IF REQUIRED) IN EXISTING BUILDING TO REMAIN REQUIRED FOR MECHANICAL AND ELECTRICAL WORK. SEE MECHANICAL AND ELECTRICAL
28 DRAWINGS FOR ADJACENT EXISTING LOCATIONS. REMOVE CEILING TILES (AND GRID IF REQUIRED) IN EXISTING BUILDING TO REMAIN REQUIRED FOR MECHANICAL AND ELECTRICAL
29 WORK.
30 DURING THE DEMOLITION PROCESS THERE MAY BE INSTANCES WHERE THE REMOVAL OR ABANDONMENT OF A FIXTURE, DUCT, CONDUIT OR OTHER PIECE OF EQUIPMENT MAY
31 BE NECESSARY TO ACHIEVE THE DEMOLITION PROCESS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF SUCH EQUIPMENT FROM FIRE, PESTS, VANDALISM OR THIEF
32 PENETRATION (AND/OR OPEN Joints) RESULTING FROM SUCH DEMOLITION WORK SHALL BE FIRE STOPPED OR SEALED IN ACCORDANCE WITH IBC CHAPTER 7 FOR THE NECESSARY
33 RATING PROTECTIONS. PROVISIONS FOR EXISTING FIRESTOP CONDITIONS SHALL BE INCLUDED AS PART OF THIS SECTION.
34 EXISTING BUILDING MATERIALS TO REMAIN ARE DAMAGED DURING DEMOLITION SHALL BE PATCHED TO MATCH ADJACENT EXISTING MATERIALS/FINISHES.
35 COORDINATE WITH OWNER THE STORAGE OF EXISTING ITEMS TO BE RELOCATED.
36 VERIFY EXISTING SPRINKLER SYSTEM WITH SPRINKLER CONTRACTOR PRIOR TO ANY DEMOLITION. SPRINKLER CONTRACTOR TO MODIFY AND MAINTAIN SYSTEM CODE
37 REQUIREMENTS.
38 CONTRACTOR SHALL REMOVE/REPAIR EXISTING GYPSUM BOARD AND ACM CEILINGS AS NECESSARY FOR NEW CEILING LAYOUT AND MECHANICAL DUCTWORK. SEE CEILING PLAN
39 FOR NEW CEILING LAYOUT.
40 CONTRACTOR SHALL REMOVE EXISTING OWNERS WALL MOUNTED ITEMS AND NON-FIXED FURNITURE OR EQUIPMENT AND TURN OVER TO OWNER'S STOCK IN DEMOLITION AREAS.
41 CONTRACTOR SHALL REMOVE EXISTING GYPSUM BOARD FROM FLOOR TO STRUCTURE WHERE WALL CALLS FOR NEW GYPSUM BOARD.

DEMOLITION LEGEND

- | | |
|---|--|
|  | WALL TO REMAIN |
|  | WALL TO BE REMOVED |
|  | DOOR TO REMAIN |
|  | DOOR, FRAME, AND HARDWARE TO BE REMOVED UNLESS NOTED OTHERWISE |
|  | DESIGNATED ITEM TO REMAIN |
|  | DESIGNATED ITEM TO BE REMOVED |
|  | NOT IN SCOPE OF WORK |
|  | EXISTING THICKENED SLAB FOOTING |
|  | APPROXIMATE EXTENTS OF SLAB CUTTING |

DEMOLITION PLAN KEY NOTES:

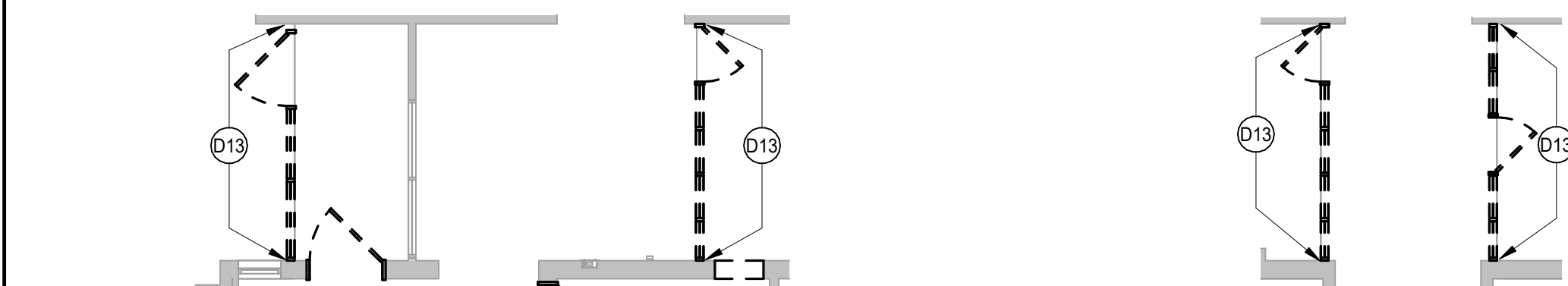
- 001 REMOVE AND SALVAGE EXISTING HANDRAIL, AND BRACKETS FOR REINSTALLATION IN AREA B. SEE FINISH PLAN.
- 002 REMOVE EXISTING CASEWORK AND COUNTERTOP IN THEIR ENTIRETY. REFER TO MECHANICAL FOR REMOVAL AND/OR DISCONNECT OF PLUMBING FIXTURES AND CONNECTIONS.
- 003 REMOVE EXISTING PLUMBING FIXTURE. REFER TO MECHANICAL FOR REMOVAL AND/OR DISCONNECT OF PLUMBING FIXTURES.
- 004 REMOVE EXISTING ACT CEILING ASSEMBLY AS OCCURS IN RESIDENT ROOM. GYP CEILING/ GYP ON UNDERSIDE OF STRUCTURE TO REMAIN. COORDINATE WITH ROPS.
- 005 REMOVE EXISTING WALL FINISHES, FLOOR FINISHES, AND ADHESIVES AS REQUIRED FOR NEW FINISHES. SEE FINISH PLAN.
- 006 REMOVE EXISTING WINDOW, FRAME, SILL, AND ASSOCIATED HARDWARE INCLUDING VALANCE AS OCCURS. EXISTING EXTERIOR CAST STONE SILL TO REMAIN.
- 007 REMOVE EXISTING CEILINGS - GYP AND/OR ACT CEILING ASSEMBLY - IN THEIR ENTIRETY, INCLUDING GRIDS, HANGERS, PERIMETER TRIM, ETC. COORDINATE REMOVAL OF LIGHT FIXTURES AND CEILING MOUNTED EQUIPMENT WITH MECHANICAL AND ELECTRICAL.
- 008 REMOVE EXISTING FLOORING, BASE, AND ADHESIVES AS REQUIRED FOR NEW FLOORING. SEE FINISH PLAN.
- 009 REMOVE EXISTING SOLARIUM WINDOW SYSTEMS. EXISTING BRICK KNEE WALLS BELOW TO REMAIN.
- 010 EXISTING COLUMN/ STRUCTURAL SUPPORT TO REMAIN. FIELD VERIFY ALL LOCATIONS AND COORDINATE WITH ARCHITECT/ STRUCTURAL PLANS AND PREPARE RECORD PDPS OF THE ORIGINAL BUILDING DRAWINGS ARE AVAILABLE TO THE CONSTRUCTION TEAM UPON REQUEST.
- 011 REMOVE EXISTING GYPSUM WALL BOARD/ PLASTER & LATH FROM EXISTING WALL. STUDS TO REMAIN. REMOVE ALL ASSOCIATED FASTENERS AND PREPARE STUDS FOR NEW WALL ASSEMBLY PER FLOOR PLANS.
- 012 DEMO EXISTING CONCRETE HOUSEKEEPING PAD.
- 013 ADD ALT #7 - REMOVE DOOR AND FRAME IN THEIR ENTIRETY. SALVAGE/REUSE READERS AND ADA ACTUATORS FOR REINSTALLATION AS OCCURS.
- 014 SAWCUT FLOORS AS REQUIRED FOR NEW SANITARY PIPING, STRUCTURAL FOOTING, ETC. HATCH SHOWS APPROXIMATE EXTENTS. COORDINATE WITH MECHANICAL AND/OR STRUCTURAL.
- 015 REMOVE EXISTING BRICK FLOORING. PREP FOR SLAB INFILL.
- 016 REMOVE EXISTING WALL MOUNTED SCONCES, ASSOCIATED WIRE MOLDING, AND PICTURE RAILS AS OCCURS.
- 017 REMOVE EXISTING HANDRAILS, BUMPERS, AND ALL ASSOCIATED HARDWARE.
- 018 EXISTING SIGNAGE TO BE REMOVED AND SALVAGED FOR REINSTALLATION.
- 019 ADD ALT #6 - REMOVE EXISTING BALLAST ROOFING, MEMBRANE, FASCIA, SCUPPERS, GUTTERS, AND DOWNSPOUTS. EXISTING INSULATION AND STEEL DECKING TO REMAIN.
- 020 REMOVE EXISTING EPDM ROOFING.
- 021 REMOVE EXISTING ROOF STRUCTURE TO THE EXTENTS SHOWN. MODIFY STRUCTURE AS REQUIRED FOR NEW WORK. SEE STRUCTURAL. PROVIDE TEMPORARY SUPPORT FOR REMAINING PORTION OF CANOPY AS REQUIRED BEFORE THE INSTALLATION OF NEW SUPPORTS.
- 022 REMOVE EXISTING ROOF "SPIRE". EXISTING ROOF BELOW TO REMAIN.
- 023 REMOVE EXISTING BALLAST ROOFING AND UNDERLAYMENT AND EXISTING INSULATION. EXISTING WOOD DECKING STRUCTURE TO REMAIN.
- 024 REMOVE EXISTING ASPHALT SHINGLES, UNDERLAYMENT, ICE/WATER SHIELD, DOWNSPOUTS, GUTTERS, FASCIA, AND FLASHING. EXISTING STRUCTURE TO REMAIN.
- 025 REMOVE ALL EXISTING LATH AND PLASTER CEILINGS IN RESIDENT ROOM, INCLUDING LATH AND PLASTER ON THE UNDERSIDE OF SLOPED STRUCTURE.
- 026 REMOVE EXISTING FIRE EXTINGUISHER CABINET.
- 027 REMOVE EXISTING BALLAST ROOFING AND UNDERLAYMENT AND EXISTING INSULATION. EXISTING CONCRETE DECKING STRUCTURE TO REMAIN.



E6 LOWER LEVEL DEMOLITION PLAN - AREA A

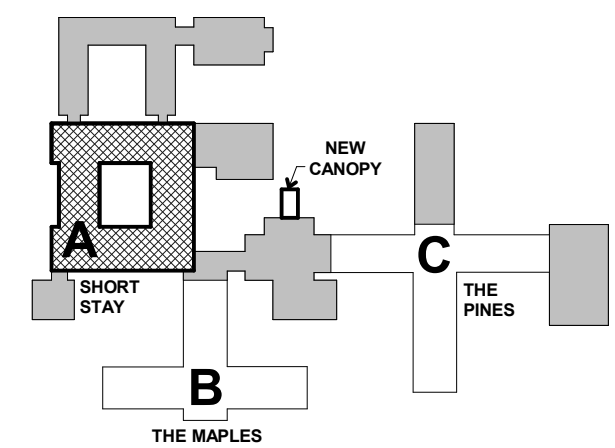


ADD ALTERNATE #7



F6 FIRST FLOOR DEMO PLAN - AREA A - ADD ALT#7

F7 FIRST FLOOR DEMO PLAN - AREA A - ADD ALT#7



KEY PLAN

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed

ARCHITECT

under the laws of the State of **MINNESOTA**

... 0:

James L. Allen

Sara Malin

[illegible]Comm: **246040**

Date: 08/29/2025

Drawn: JDV/ CN

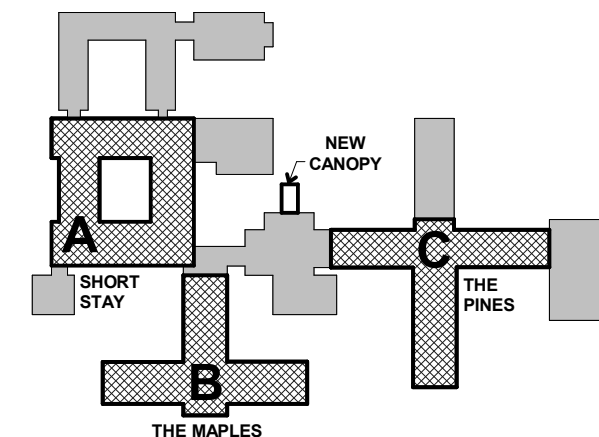
Check: **EN**

FIRST FLOOR DEMOLITION PLAN - AREA A

Scale: **As indicated**

100% CD SET

A 1.00 tá



KEY PLAN

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed ARCHITECT under the laws of the State of MINNESOTA

Sara Malin
License Number: 40063 Date: 06/29/2025

Description	Revisions	Date	Num
ADDENDUM #2		9/11/2025	1
ADDENDUM #3		9/19/2025	2
ADDENDUM #4		9/22/2025	3

Comm: 246040
Date: 08/28/2025
Drawn: JWD/CN
Check: EN
North

ROOF PLAN

Scale: As indicated

ROOF LEGEND

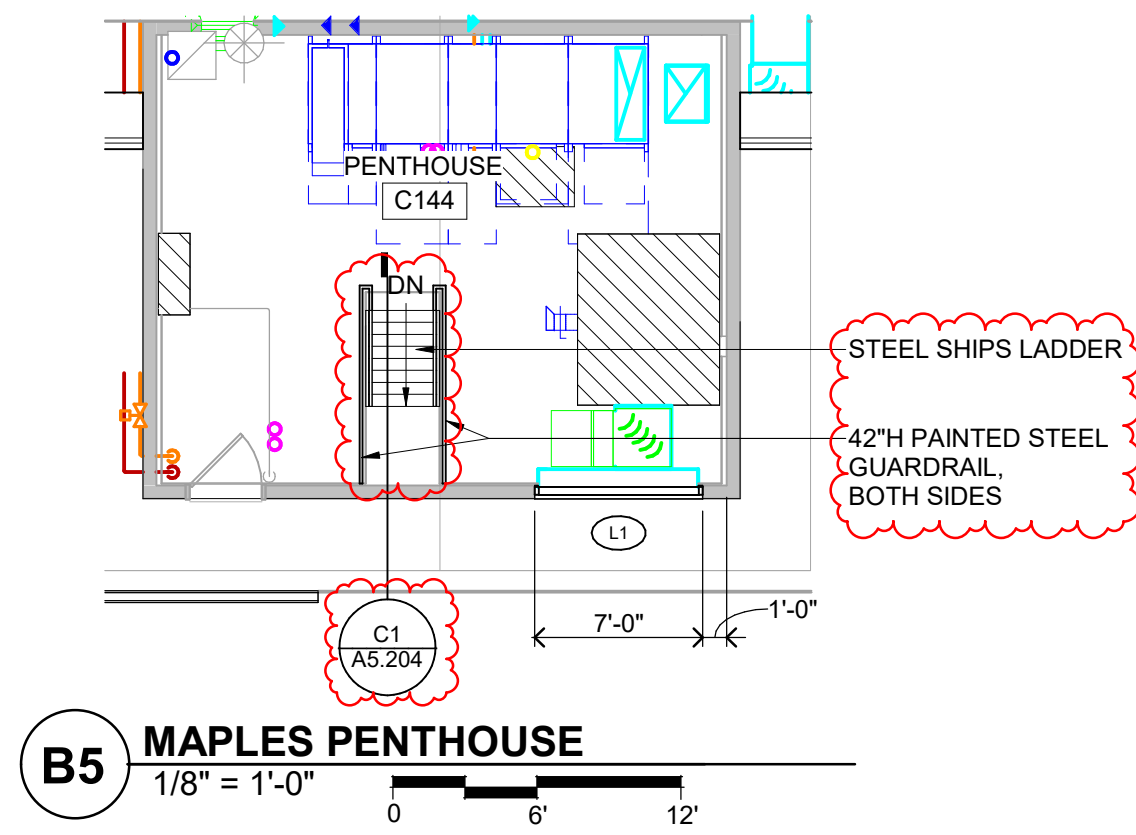
- ROOF DRAIN (R.D.)
- OVERFLOW DRAIN (O.R.D.)
- MECH HOOD
- EQUIPMENT CURB AT MECHANICAL EQUIPMENT
- ROOF EXHAUST
- EQUIPMENT CURBS SUPPORTING PIPING OR CONDUIT. INSTALL MAXIMUM SPACING OF 6'-0" O.C.
- VENT STACK, PIPE OR CONDUIT
- COMBUSTION STACK
- SKYLIGHT OR SKYLIGHT TUBE
- CRICKET FOR POSITIVE DRAINAGE
- SLOPE OF TAPERED INSULATION
- DIAMOND CRICKET (SEE TYPICAL DETAIL)
- SLOPED STRUCTURE
- SC = SCUPPER
- EXISTING SKYLIGHTS & SKYLIGHT TUBES TO REMAIN.
- EXISTING VENT STACK/MECHANICAL PIPE PENETRATION TO REMAIN.
- EXISTING MECHANICAL ROOF TOP EQUIPMENT TO REMAIN.

ROOF PLAN GENERAL NOTES

- TAPERED ROOF INSULATION AND CRICKETS SHALL SLOPE AT 1/4" PER 1'-0". THE THICKNESS OF THE BASE INSULATION IS TO BE 5 1/2".
- INSULATION MUST ACCOUNT FOR CAMBER IN STRUCTURE TO INSURE THAT THE ROOF DRAINS AS DESIGNED.
- CRICKETS AS REQUIRED FOR POSITIVE DRAINAGE OR CUT OPENINGS IN FREE-STANDING CURBS AS AN ALTERNATIVE. MECHANICAL ITEM LOCATIONS ARE SHOWN FOR REFERENCE ONLY. REFER TO MECH. DRAWINGS FOR EXTENT OF MECH. EQUIP. AND SIZE AND LOCATION OF ALL ROOF PENETRATIONS.
- ALL MECHANICAL AND ELECTRICAL ROOFTOP EQUIPMENT, PIPING, CONDUIT, ETC. TO BE PAINTED.
- COORDINATE ROOF AND OVERFLOW DRAIN LOCATIONS WITH STRUCTURAL COMPONENTS TO AVOID LOCATING ROOF OR OVERFLOW DRAINS OVER TOP OF BEAMS OR JOISTS.
- REFER TO EXTERIOR ELEVATIONS FOR LOCATION OF OVERFLOW SCUPPERS AND OUTFLOWS.
- AT ALL LADDERS, TOP AND BOTTOM, PROVIDE AND INSTALL A 4'-0" X 4'-0" CONCRETE PAVELANDING ON AN ADDITIONAL LAYER OF ROOFING MATERIAL.
- ROOF LADDERS WITH NUMBER IN PARENTHESIS INDICATE RELATIVE ROOF DECK ELEVATION DIFFERENCES, NOT INCLUDING PARAPET, VERIFY EXACT LADDER HEIGHT REQUIREMENTS

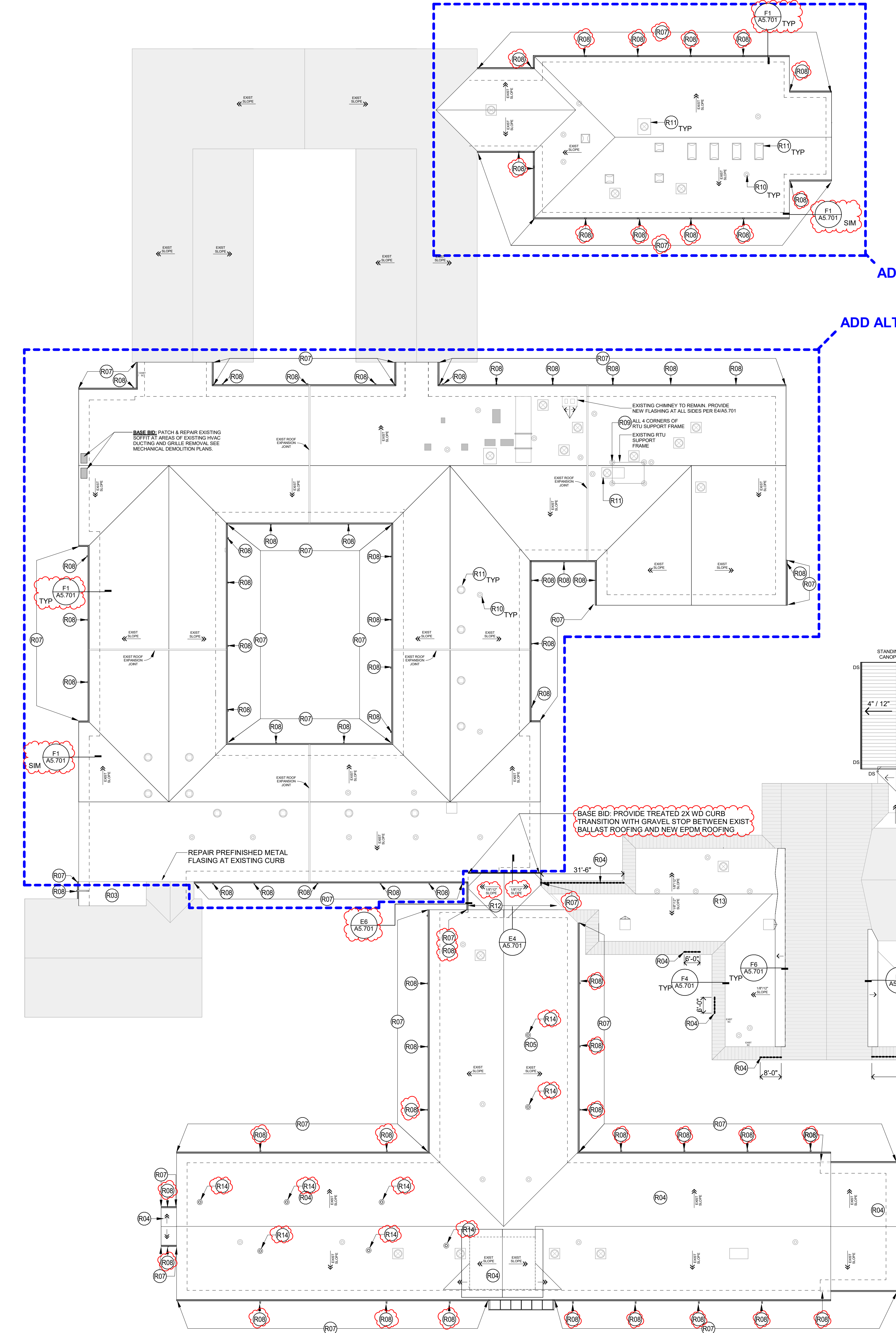
ROOF PLAN KEYNOTES

- ADD ALT #6 - NEW EPDM ROOFING, PREFINISHED METAL FASCIA, GUTTERS, AND DOWNSPOUTS. PATCH AND REPAIR EXISTING EXPANSION JOINT COVERS AND CURB FLASHING AS REQD FOR NEW ROOFING AND GUTTER INSTALLATION. EXISTING BASE LAYER INSULATION OVER STEEL DECK TO REMAIN.
- PATCH ROOF AS REQUIRED AFTER THE REMOVAL OF "SPIRE".
- NEW EPDM ROOFING. VERIFY EXISTING SLOPE AND CRICKETS, AND PROVIDE NEW TAPERED INSULATION AS NECESSARY TO CORRECT EXISTING LOW SPOTS AND ENSURE SLOPE TO DRAINS.
- NEW SNOW GUARD PER DIV 07. VERIFY EXTENTS SHOWN ON PLAN EXTEND OVER ANY DOORS BELOW.
- NEW ASPHALT SHINGLE ROOFING, UNDERLAYMENT, ICE/WATER SHIELD, DOWNSPOUTS, GUTTERS, FASCIA, AND FLASHING.
- PATCH ROOF AS REQUIRED TO REMEDIATE DRAINAGE ISSUES.
- 6" PREFINISHED ALUMINUM GUTTER PER DIV 07.
- PREFINISHED ALUMINUM DOWNSPOUTS PER DIV 07.
- EXISTING STEEL TUBE PENETRATION TO REMAIN. PROVIDE NEW FLASHING PER DETAIL D5/A5.701
- EXISTING VENT STACK PENETRATION TO REMAIN. FIELD VERIFY QUANTITIES, LOCATIONS AND SIZES. PROVIDE NEW FLASHING PER DETAIL F7/A5.701
- EXISTING MECHANICAL EQUIPMENT / SKYLIGHTS AND CURBS TO REMAIN. PROVIDE NEW FLASHING PER DETAIL E2/A5.701
- NEW EPDM ROOFING, BASE LAYER & TAPERED INSULATION OVER EXISTING PRECAST CONCRETE STRUCTURE.
- NEW EPDM ROOFING, BASE LAYER & TAPERED INSULATION OVER EXISTING WOOD ROOF STRUCTURE.
- NEW VENT STACK/MECHANICAL PIPE PENETRATION. CORRDINATE LOCATION AND QUANTITY WITH MECHANICAL PLANS.

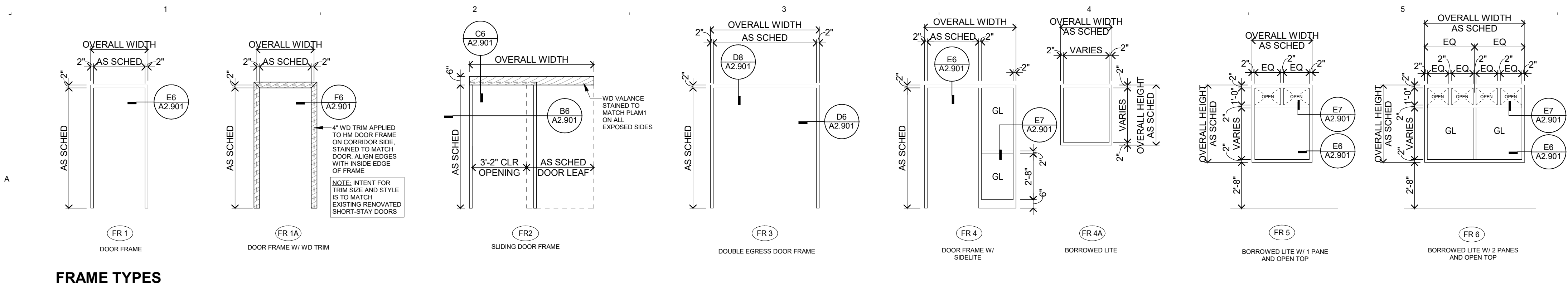


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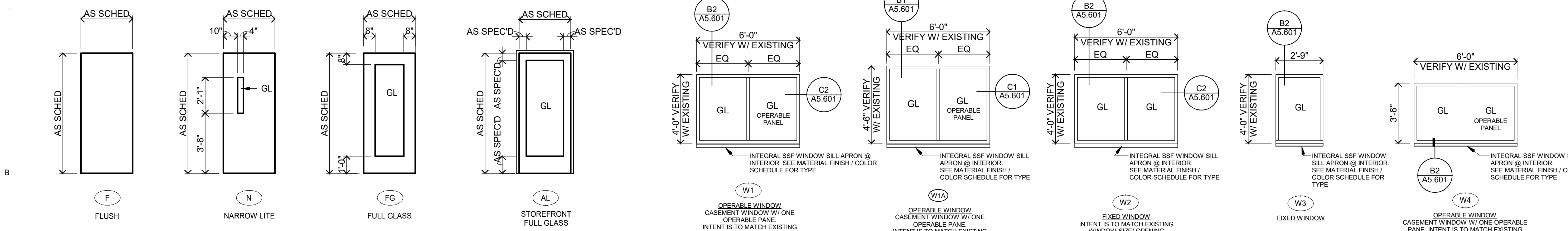
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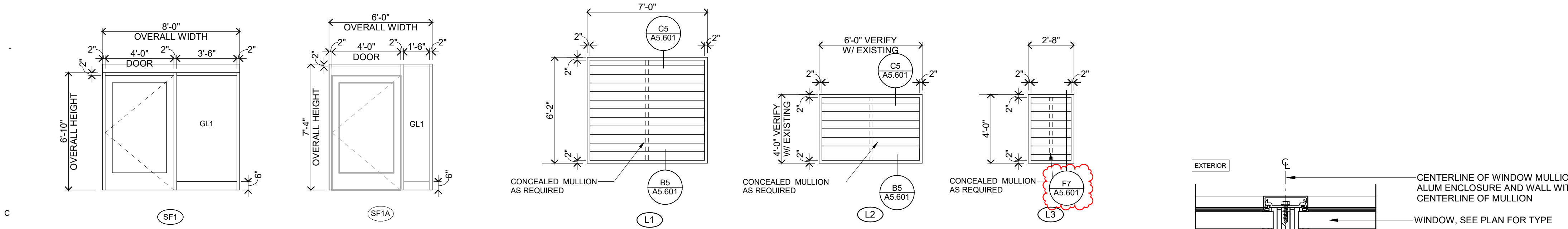
F1 OVERALL ROOF PLAN



FRAME TYPES



DOOR PANEL TYPES

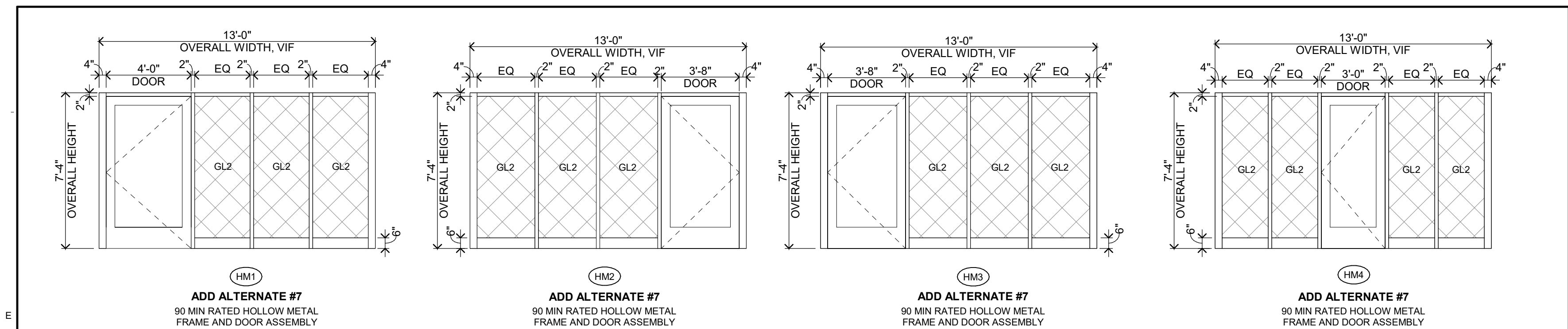


STOREFRONT TYPES

LOUVER TYPES

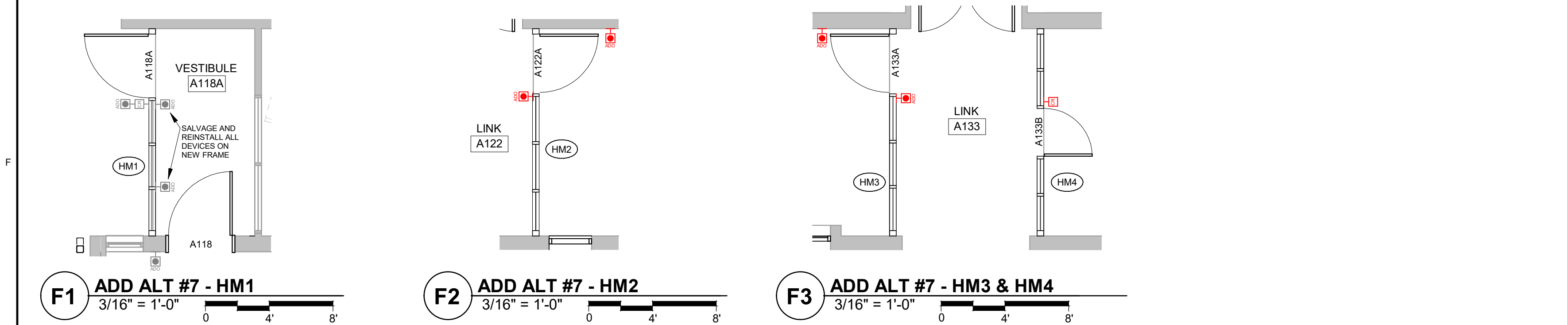


ADD ALTERNATE #7

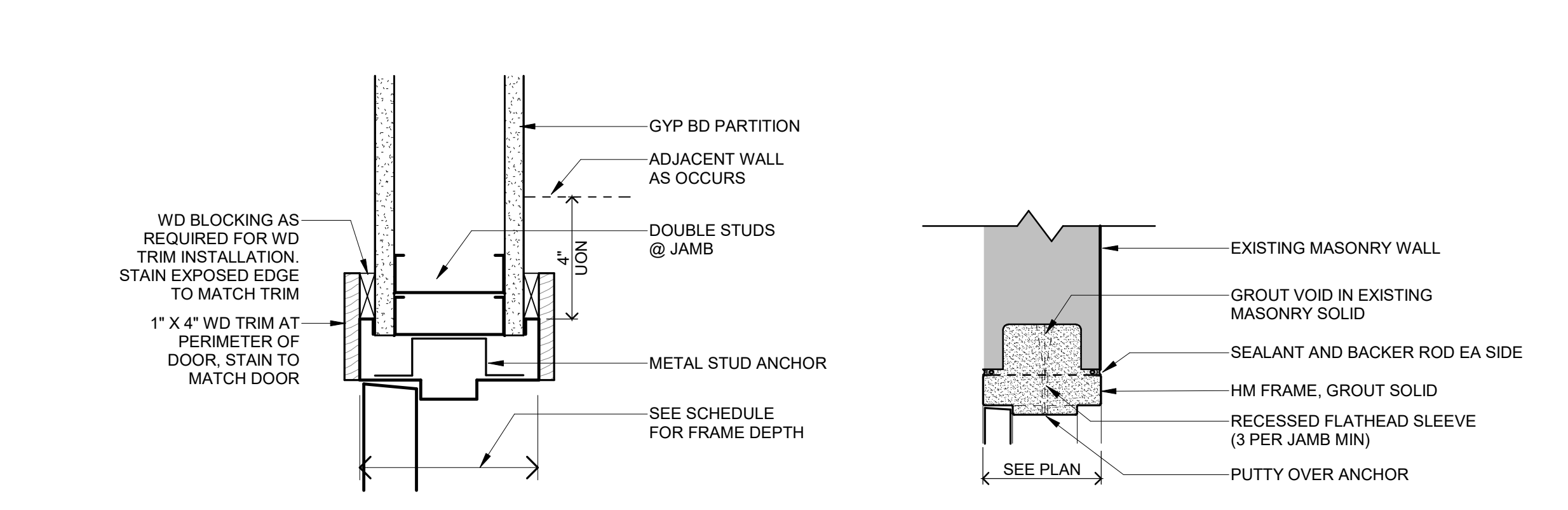
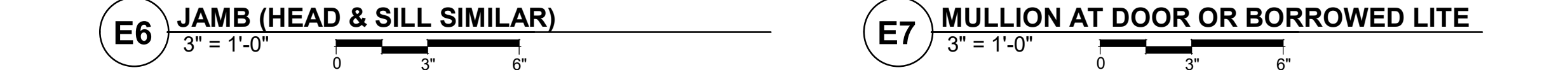
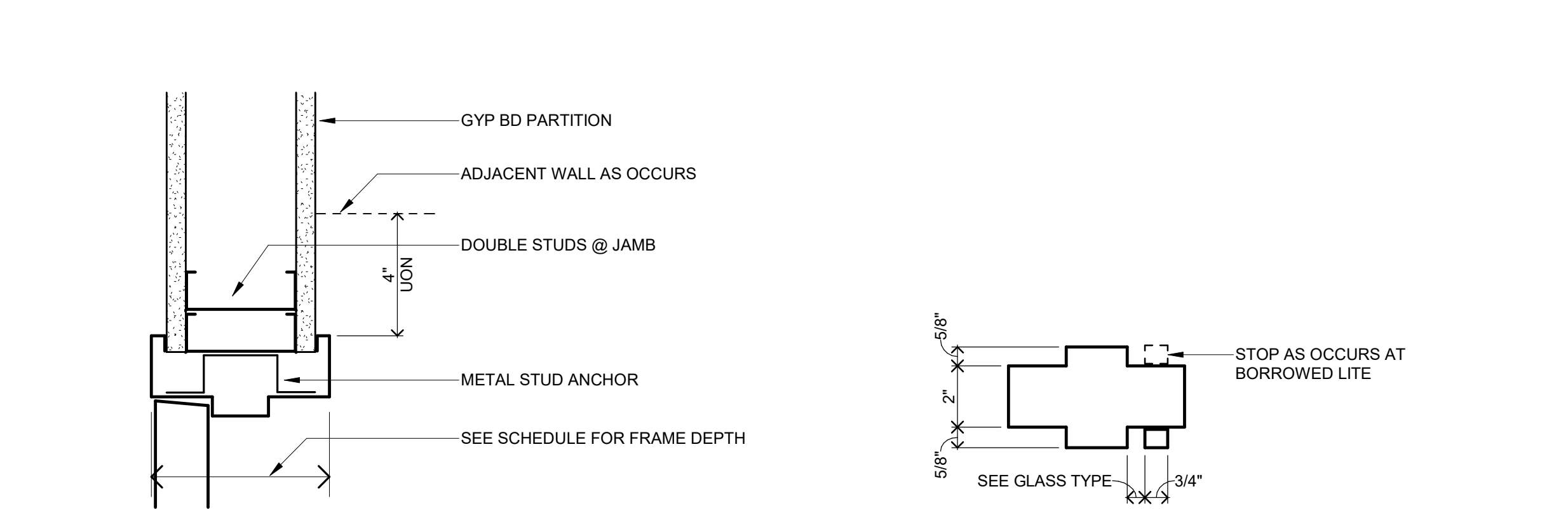
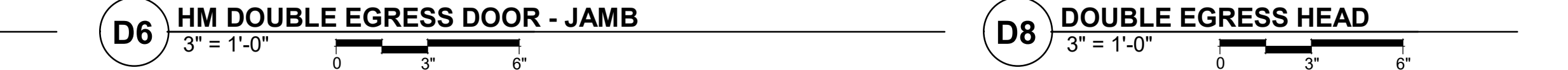
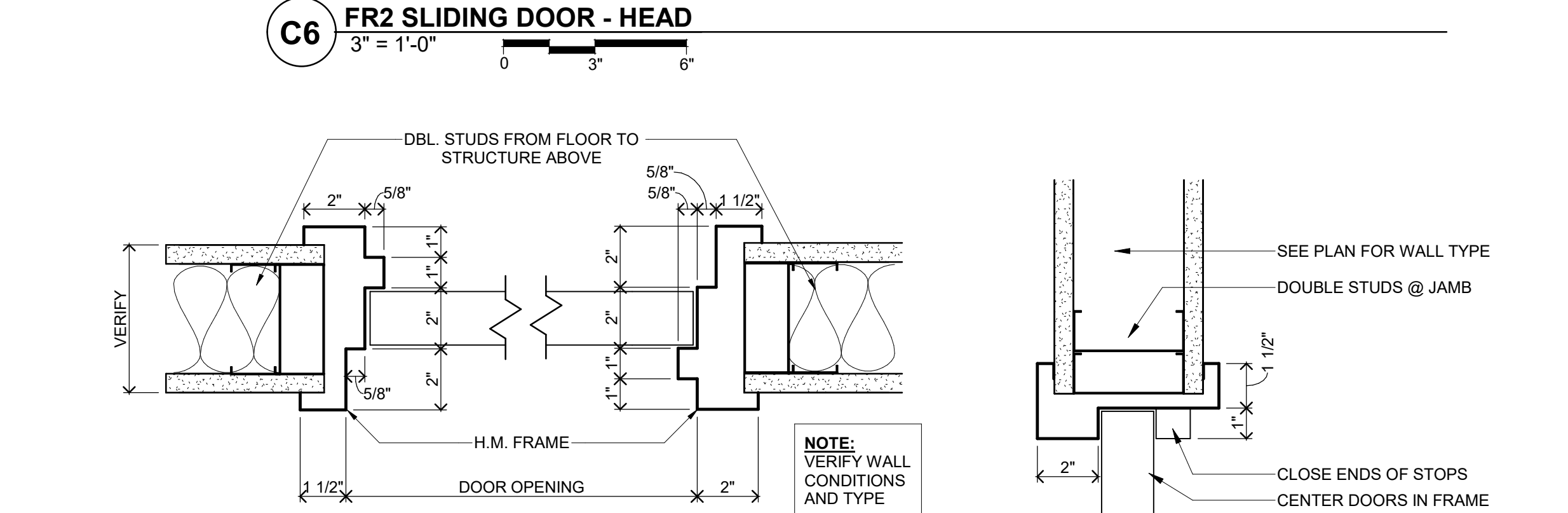
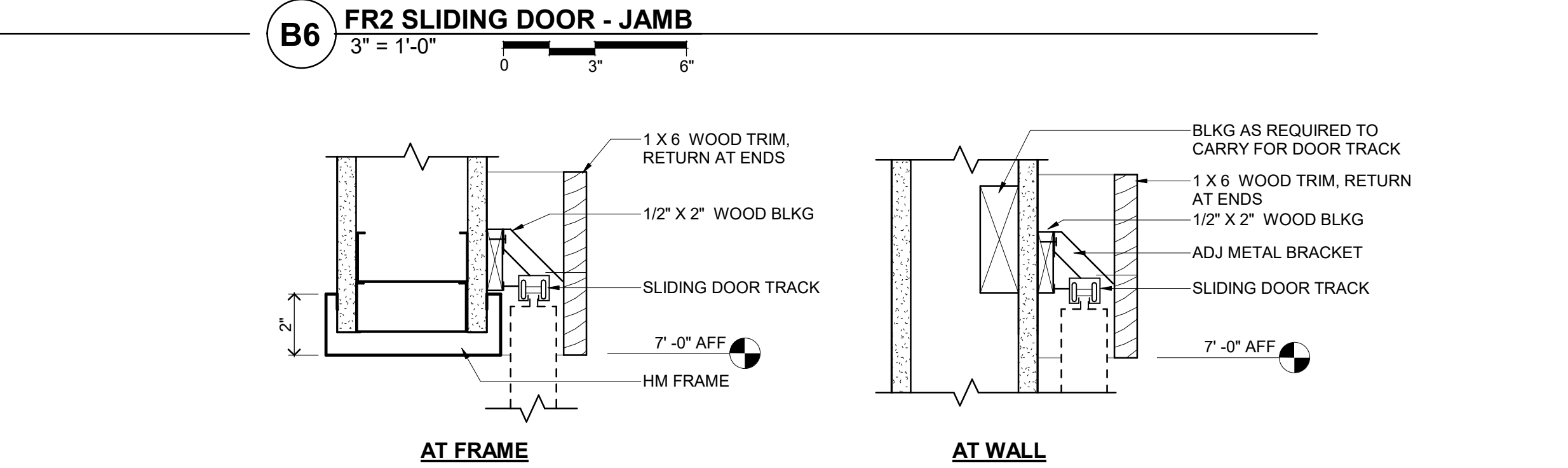
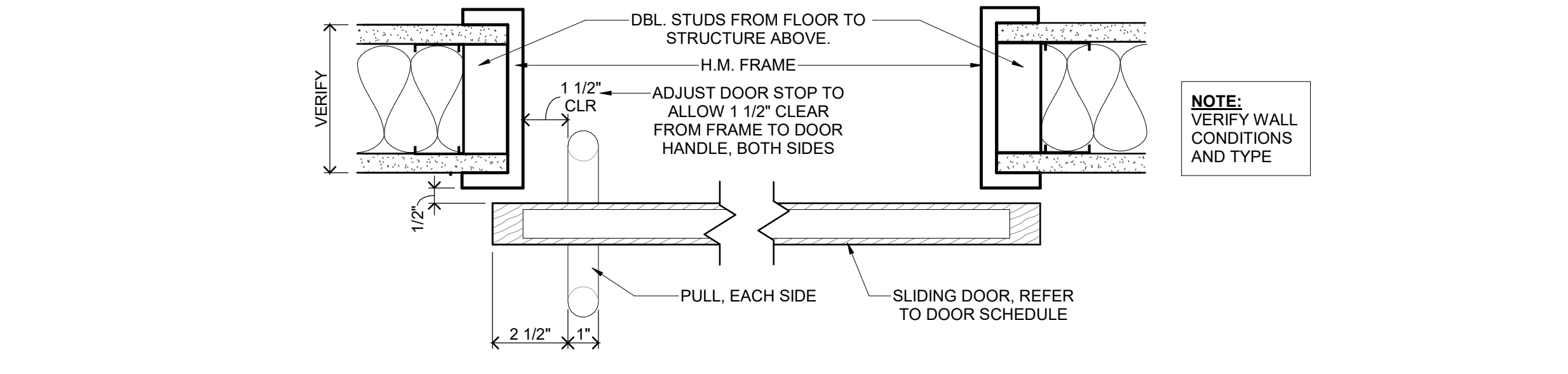


ADD ALTERNATE #7 HM FRAME TYPES

DOOR / OPENING SCHEDULE - ADD ALTERNATE #7												
DOOR NO	ROOM	TYPE	QTY	WIDTH	HEIGHT	MATL	LABEL	RATING	OVERALL WIDTH	FRAME TYPE	HDW	REMARKS
A118A	VESTIBULE	FG	1	4'-0"	7'-2"	HM	1 HR RATED ASSEMBLY	4'-4"	HM 1	HM	02	ADD ALTERNATE #7, ADJACENT TO 2-HR FIRE BARRIER
A122A	LINK	FG	1	3'-4"	7'-2"	HM	1 HR RATED ASSEMBLY	4'-0"	HM 2	HM	08	ADD ALTERNATE #7, ADJACENT TO 2-HR FIRE BARRIER
A133A	LINK	FG	1	3'-8"	7'-0"	HM	1 HR RATED ASSEMBLY	4'-0"	HM 3	HM	04	ADD ALTERNATE #7, ADJACENT TO 2-HR FIRE BARRIER
A133B	LINK	FG	1	3'-0"	7'-0"	HM	1 HR RATED ASSEMBLY	3'-4"	HM 4	HM	03	ADD ALTERNATE #7, ADJACENT TO 2-HR FIRE BARRIER



DOOR SCHEDULE GENERAL REMARKS	HARDWARE GENERAL REMARKS
1. ALL DOORS ARE 1 3/4" THICK UNLESS OTHERWISE NOTED. 2. FOR FRAME DEPTH: A. GYPSUM BOARD PARTITIONS: THROAT OF FRAME TO MATCH WALL THICKNESS. 3. FOR GLASS TYPES, ONLY EXCEPTIONS TO THE FOLLOWING TABLE ARE SCHEDULED: INTERIOR NON RATED: CLEAR (SAFETY WHEN REQUIRED BY TABLE IN GLAZING SPECIFICATION.) INTERIOR AND EXTERIOR RATED: FIRE RATED EXTERIOR NON-RATED: CLEAR INSULATED (SAFETY INSULATED WHEN REQUIRED BY TABLE IN GLAZING SPECIFICATION.) 4. GL1 = CLEAR GLAZING ADD ALT #7: GL2 = 90 MIN RATED CLEAR GLAZING (INTENT FOR USE ADJACENT TO 2-HR FIRE WALLS) 5. ALL HM FRAMES TO BE PAINTED PTXX UNLESS NOTED OTHERWISE ON THE DOOR SCHEDULE. 6. ALL ALUMINUM DOORS AND FRAMES TO BE CLEAR ANODIZED ALUMINUM UNLESS NOTED OTHERWISE ON THE TYPES. 7. FIELD VERIFY EXISTING DOOR HEIGHTS. INTENT IS FOR NEW DOOR HEIGHTS TO MATCH EXISTING DOOR HEIGHTS IN THAT AREA.	1. HARDWARE MANUFACTURERS AND MODELS ARE BASED ON OWNER PROVIDED STANDARD DOCUMENTS. 2. HARDWARE SUBMITTAL TO INCLUDE DATE OF COORDINATION WITH OWNER FACILITY MAINTENANCE. 3. ALL LATCH SETS SHALL BE CONFIGURED TO READILY OPEN IN DIRECTION OF EGRESS. 4. SEE DIV. 8 FOR HARDWARE SPECIFICATIONS HARDWARE GENERAL REMARKS 1. ALL DOOR HARDWARE TO COMPLY WITH CURRENT ADA CODE REQUIREMENTS 2. FIELD VERIFY ALL EXISTING DOOR FRAMES TO REMAIN AND EXISTING HARDWARE TO BE REUSED PRIOR TO ORDERING NEW REPLACEMENTS 3. DOORS, FRAMES & HARDWARE HARDWARE FINISH TO BE FIELD VERIFIED TO MATCH EXISTING BUILDING STANDARDS 4. DOOR STOPS SHALL BE FLOOR MOUNTED ADJACENT TO WALLS AND OVERHEAD WHEN NOT ADJACENT TO WALLS. 5. REMOVE EXISTING DOOR HARDWARE AS REQUIRED FOR NEW HARDWARE. SEE DOOR SCHEDULES FOR HARDWARE SETS. PATCH, PREPARE, AND RE-FINISH DOORS AS REQUIRED FOR NEW HARDWARE.



Nelson Care Center Renovation

420 12th Ave E,
Alexandria, MN 56308

246040

Vivie
2209 Jefferson St. Suite 201
Alexandria, MN 56308



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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed

ARCHITECT

under the laws of the State of MINNESOTA

Sara Malin
License Number: 40063 Date: 06/29/2025

Description	Revisions	Date	Num
ADDENDUM #2		9/11/2025	1
ADDENDUM #3		9/19/2025	2
ADDENDUM #4		9/22/2025	3

Comm: 246040

Date: 08/29/2025

Drawn: JVD/ CN

Check: EN

DOOR/ FRAME/ WINDOW TYPES & DETAILS

Scale: As indicated

100% CD SET

A2.901



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RCP KEY NOTES:

1. PATCH AND REPAIR EXISTING GYP CEILING AS REQUIRED FOR NEW WORK AND SMOOTH FINISH. PAINT ENTIRETY PT7.
2. MODIFY CEILING GRID AS REQUIRED FOR NEW WORK.
3. PAINT SOFFIT AND UNDERSIDE SAME AS ADJACENT WALL FINISH, PT1. SEE FINISH PLAN.
4. SLOPED CEILING TO BE 5/8" GYP BOARD ON 7/8" METAL FURRING ATTACHED TO UNDERSIDE OF STRUCTURE.

RCP LEGEND

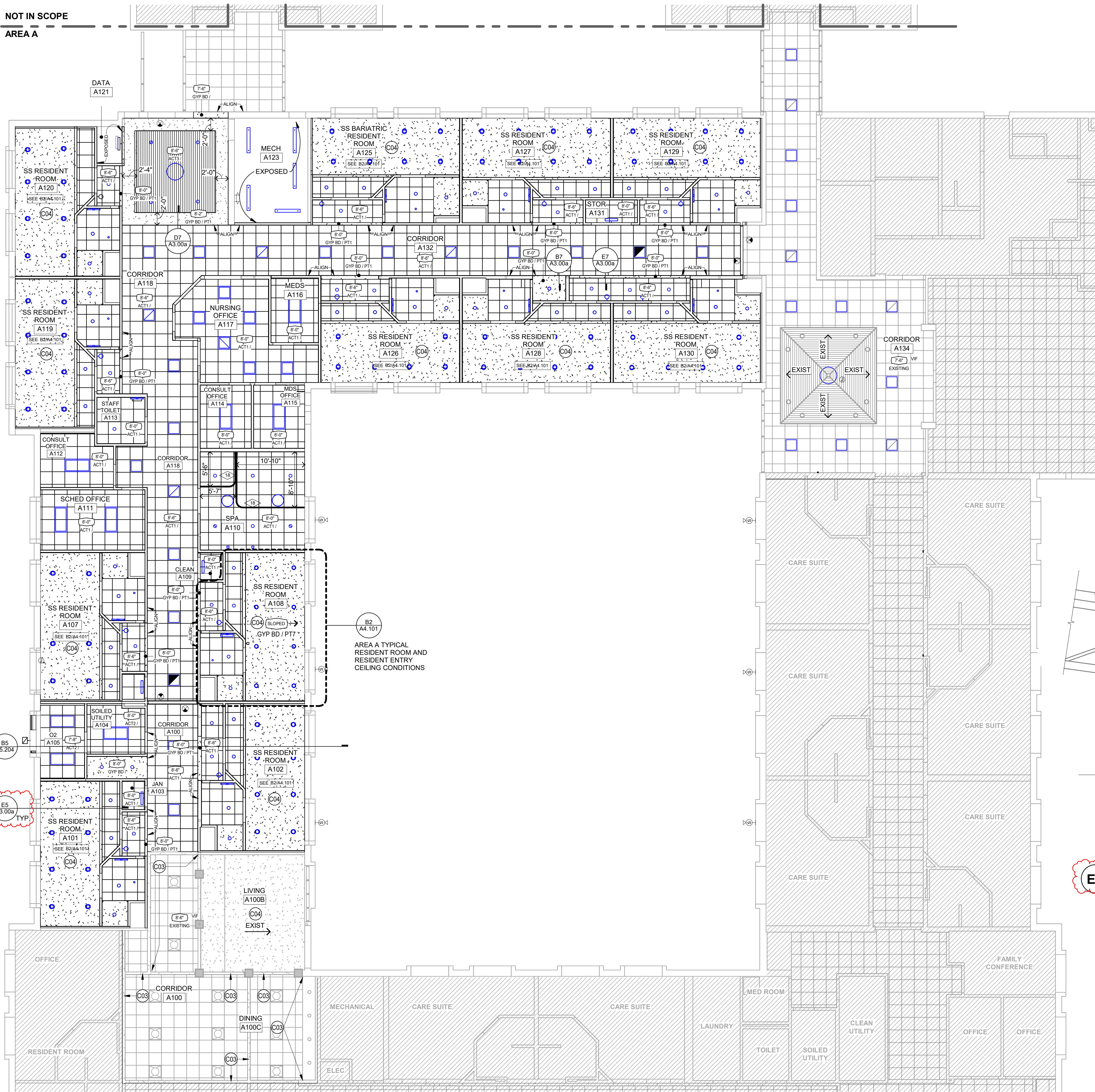
SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR FIXTURE
TYPES AND LOCATIONS.

REFLECTED CEILING PLAN GENERAL NOTES

1. CEILING HEIGHTS ARE 8'-0" AFF UNLESS NOTED OTHERWISE
2. REFER TO ROOM FINISH SCHEDULE FOR CEILING MATERIAL
3. PROVIDE GYPSUM BOARD AND STUD BULKHEADS WHERE CEILING OF DIFFERENT HEIGHTS ABUT. DO NOT BUILD BULKHEADS OF ACOUSTICAL CEILING MATERIAL UNLESS NOTED
4. REFER TO MECHANICAL DRAWINGS FOR QUANTITY, TYPE AND LOCATIONS OF DIFFUSERS, RETURN AIR GRILLES AND EXHAUST GRILLES. SCRIBE CEILING MATERIALS CAREFULLY FOR TIGHT FIT
5. REFER TO ELECTRICAL DRAWINGS FOR QUANTITY, TYPE AND LOCATIONS OF LIGHTS, SPEAKERS, DETECTORS, POWER OUTLETS, ETC. SCRIBE CEILING MATERIAL CAREFULLY FOR TIGHT FIT. WHERE NO DEVICES ARE SHOWN ON PLANS FIELD VERIFY LOCATION AND QUANTITY OF DEVICES IN EXISTING CEILINGS THAT WILL BE RELOCATED TO NEW CEILINGS
6. ALTHOUGH NOT SPECIFICALLY SHOWN, THE ENTIRE PROJECT HAS FIRE SPRINKLER HEADS IN CEILING. SCRIBE CEILING MATERIALS CAREFULLY FOR TIGHT FIT
7. REFER TO ROOM FINISH SCHEDULE FOR THE GRID SYSTEM. REFLECTED CEILING PLANS SHOW TILE PATTERNS
8. CONTRACTOR TO FIELD VERIFY EXTENT OF CEILING REPLACEMENT. CONTRACTOR TO COORDINATE WITH ALL TRADES
9. ALL EXISTING TO REMAIN GRILLES, DIFFUSERS AND LIGHTS, ETC. TO BE CLEANED
10. VERIFY CEILING HEIGHTS WITH STRUCTURE AND DUCTWORK
11. SCRIBE CEILING MATERIALS FOR TIGHT FIT
12. CENTER EXHAUST GRILLE OVER TOILET BOWL IN TOILET ROOMS WITH GYPSUM BOARD CEILINGS UNLESS OTHERWISE NOTED
13. CENTER RECESSED LIGHT FIXTURES WITHIN TOILET ROOMS RECEIVING GYPSUM BOARD CEILINGS UNLESS OTHERWISE NOTED
14. GENERAL CONTRACTOR IS TO PROVIDE AND INSTALL CEILING ACCESS PANELS REQUIRED FOR ACCESS TO ANY MECHANICAL AND/OR ELECTRICAL DEVICES ABOVE THE CEILING. GENERAL CONTRACTOR IS TO COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS FOR LOCATIONS
15. CENTER SPRINKLER HEADS IN CEILING TILE. TYPICAL
16. ALL GYPSUM CEILINGS AND SOFFITS TO BE PAINTED PT7 UNLESS NOTED OTHERWISE.

NOT IN SCOPE OF WORK

NOT IN SCOPE
AREA A



F1 MAIN LEVEL REFLECTED CEILING PLAN AREA A

E5 GYPSUM BOARD CEILING AT EXISTING STEEL ROOF JOISTS

1 1/2" = 1'-0"

E7 GYPSUM BOARD BULKHEAD

1 1/2" = 1'-0"

F7 GYPSUM BOARD SOFFIT TO GYPSUM BOARD SOFFIT

1 1/2" = 1'-0"

F5 1 HOUR RATED GYPSUM BOARD CEILING ENCLOSURE

1 1/2" = 1'-0"

F7 GYPSUM BOARD SOFFIT TO ACT - FLUSH

1 1/2" = 1'-0"

B7 GYPSUM BOARD SOFFIT TO ACT

1 1/2" = 1'-0"

D7 GYPSUM BOARD SOFFIT TO ACT BOTH SIDES

1 1/2" = 1'-0"

C7 GYPSUM BOARD SOFFIT TO ACT - FLUSH

1 1/2" = 1'-0"

B7 GYPSUM BOARD SOFFIT TO ACT

1 1/2" = 1'-0"

KEY PLAN

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed ARCHITECT under the laws of the State of MINNESOTA.

Sara Malin
License Number: 40063 Date: 06/29/2025

Revisions

Description Date Num

ADDENDUM #2 9/11/2025 1

ADDENDUM #4 9/22/2025 2

Comm: 246040

Date: 08/29/2025

Drawn: JVD/CN

Check: EN

North

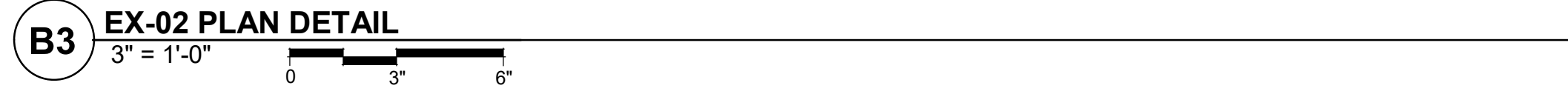
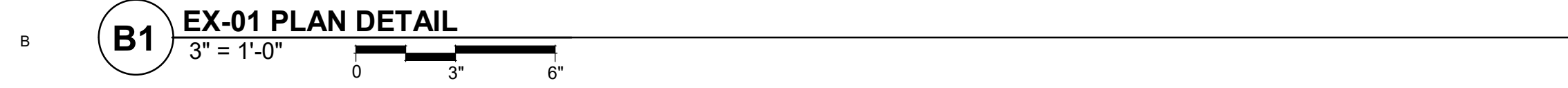
FIRST FLOOR
REFLECTED
CEILING PLAN -
AREA A

Scale: As indicated

A3.00a

100% CD SET

A



420 12th Ave E,
Alexandria, MN 56308

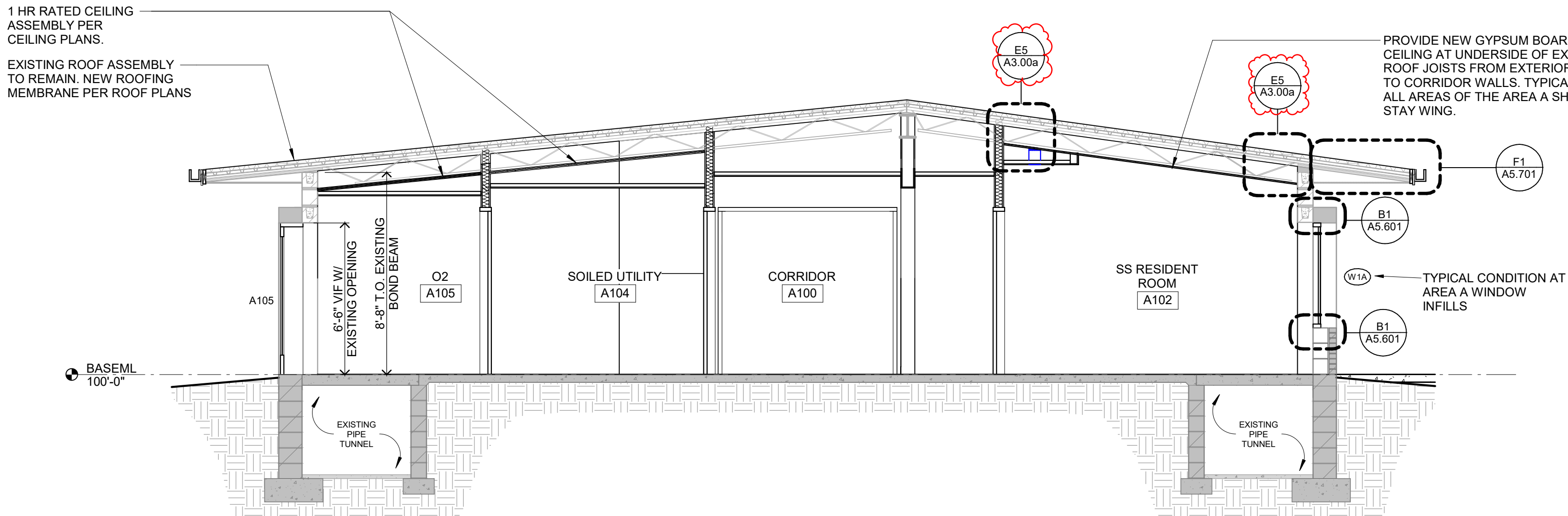
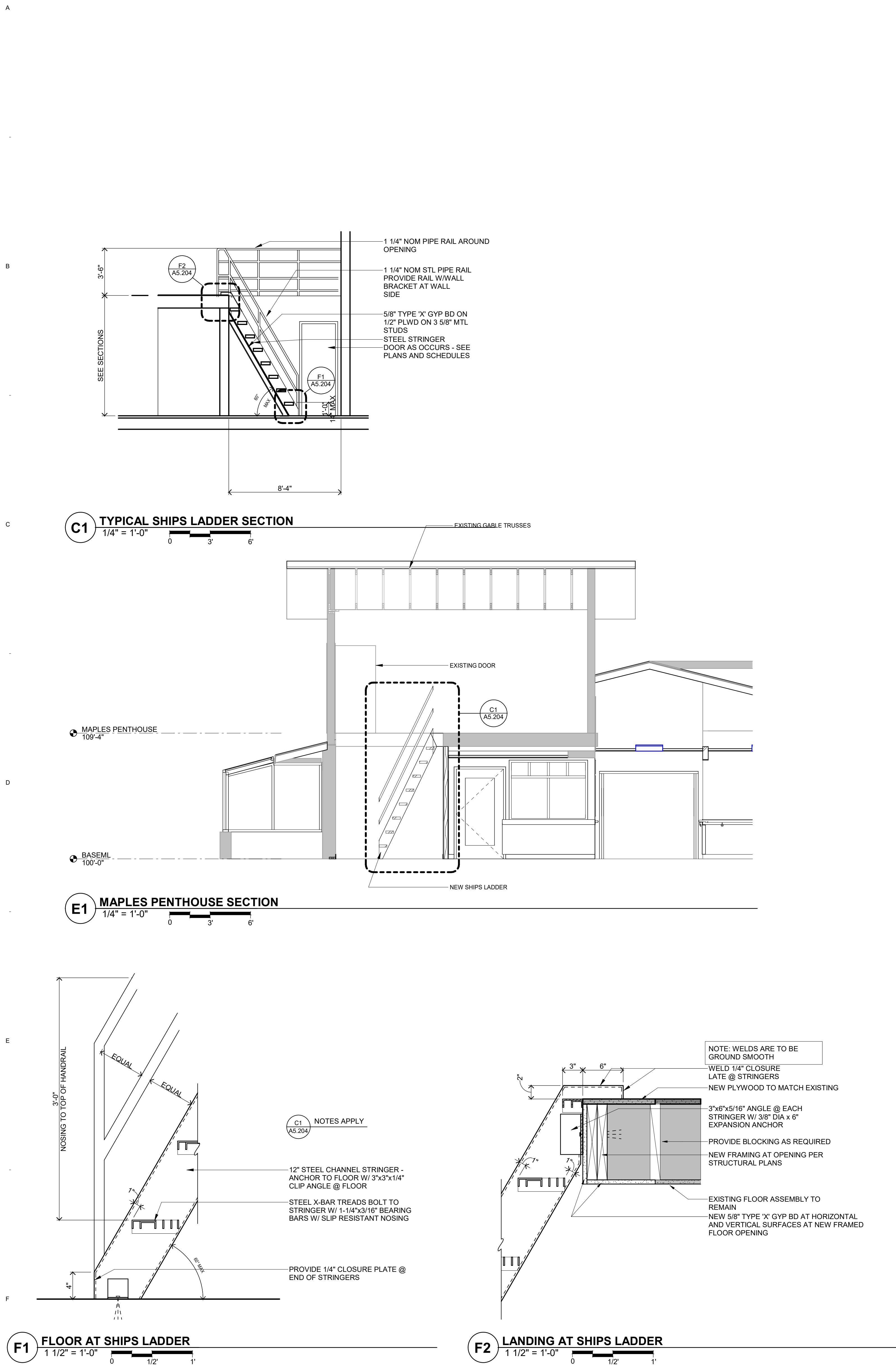


100% CD SET



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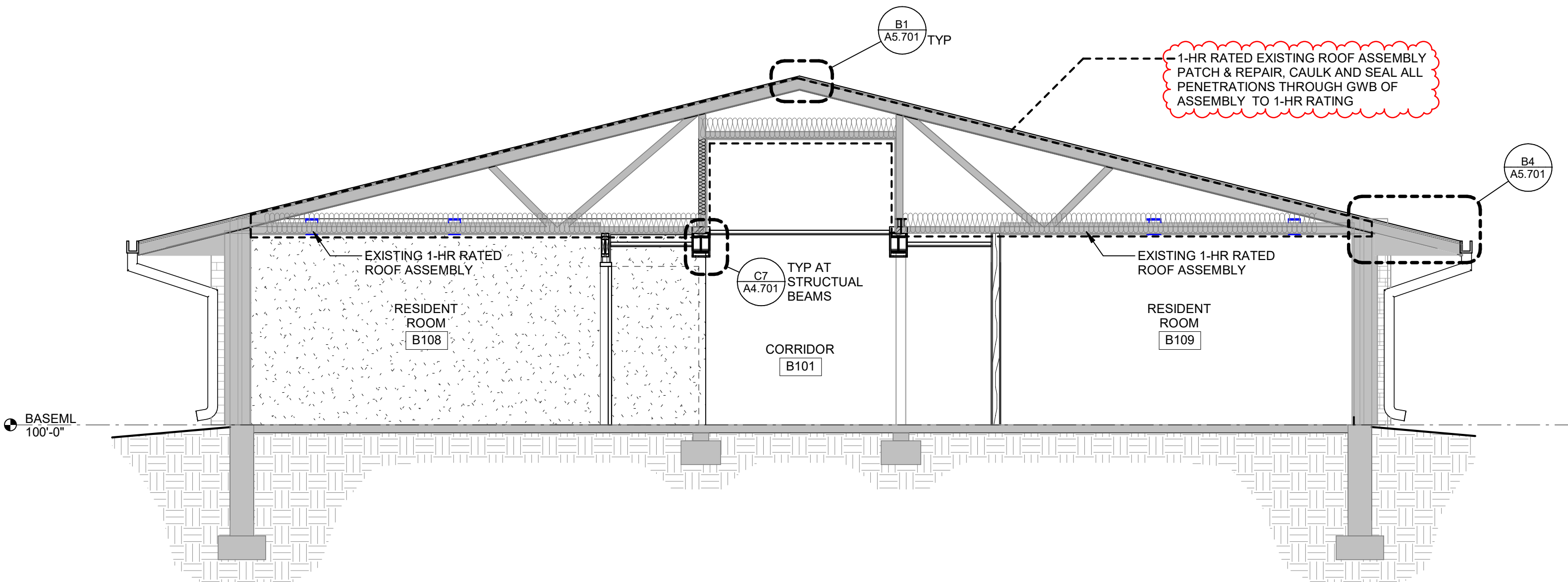
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Minneapolis, Minnesota 55402
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B5 AREA A - TYPICAL SECTION @ SHORT-STAY

1/4" = 1'-0"

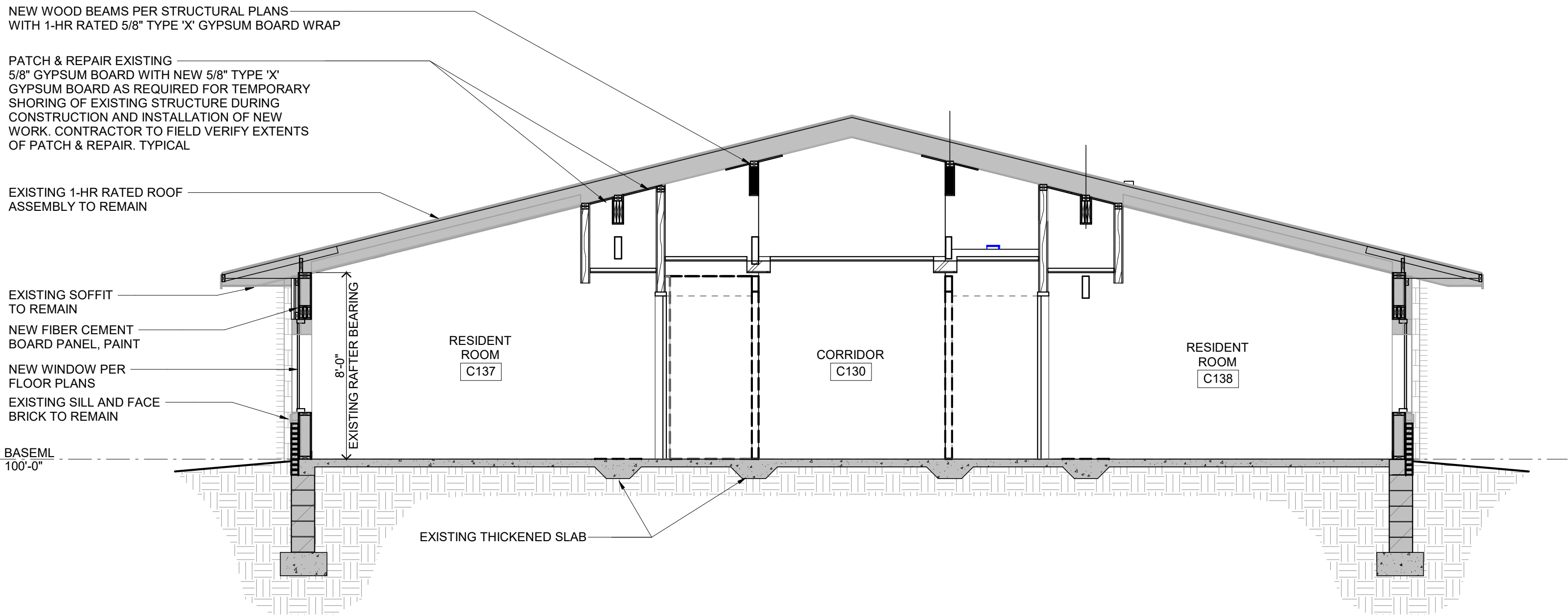
0 3 6'



D5 AREA B - TYPICAL SECTION @ THE MAPLES

1/4" = 1'-0"

0 3 6'



F5 AREA C - TYPICAL SECTION @ THE PINES

1/4" = 1'-0"

0 3 6'

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Sara Malin

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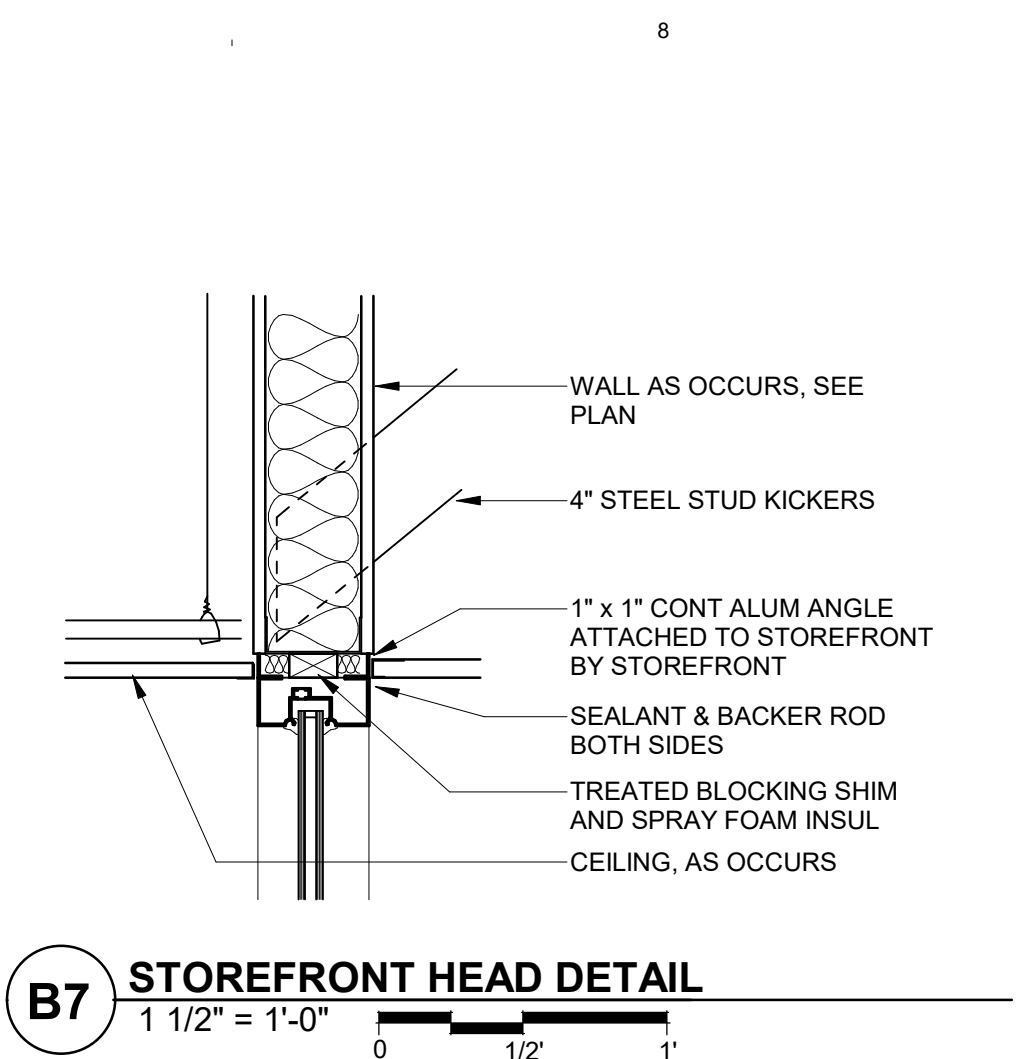
Comm: 246040
Date: 08/29/2025
Drawn: JDI/CN
Check: EN

WALL SECTIONS

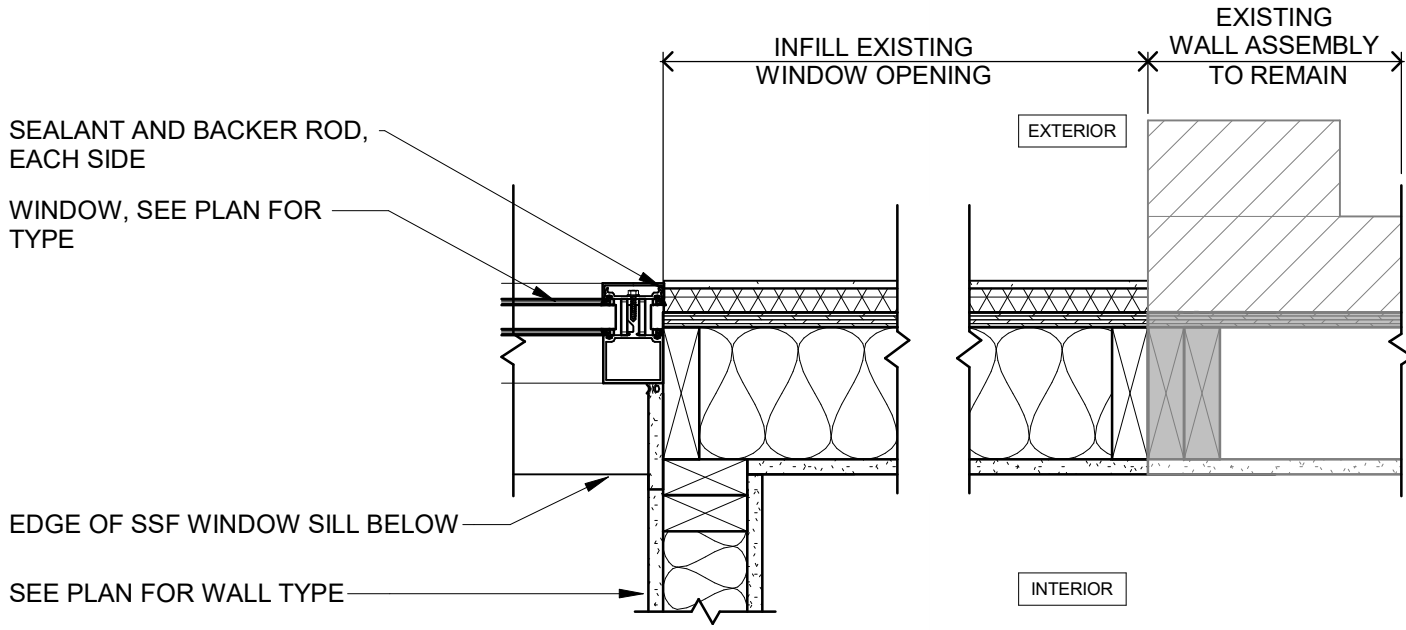
Scale: As indicated

A

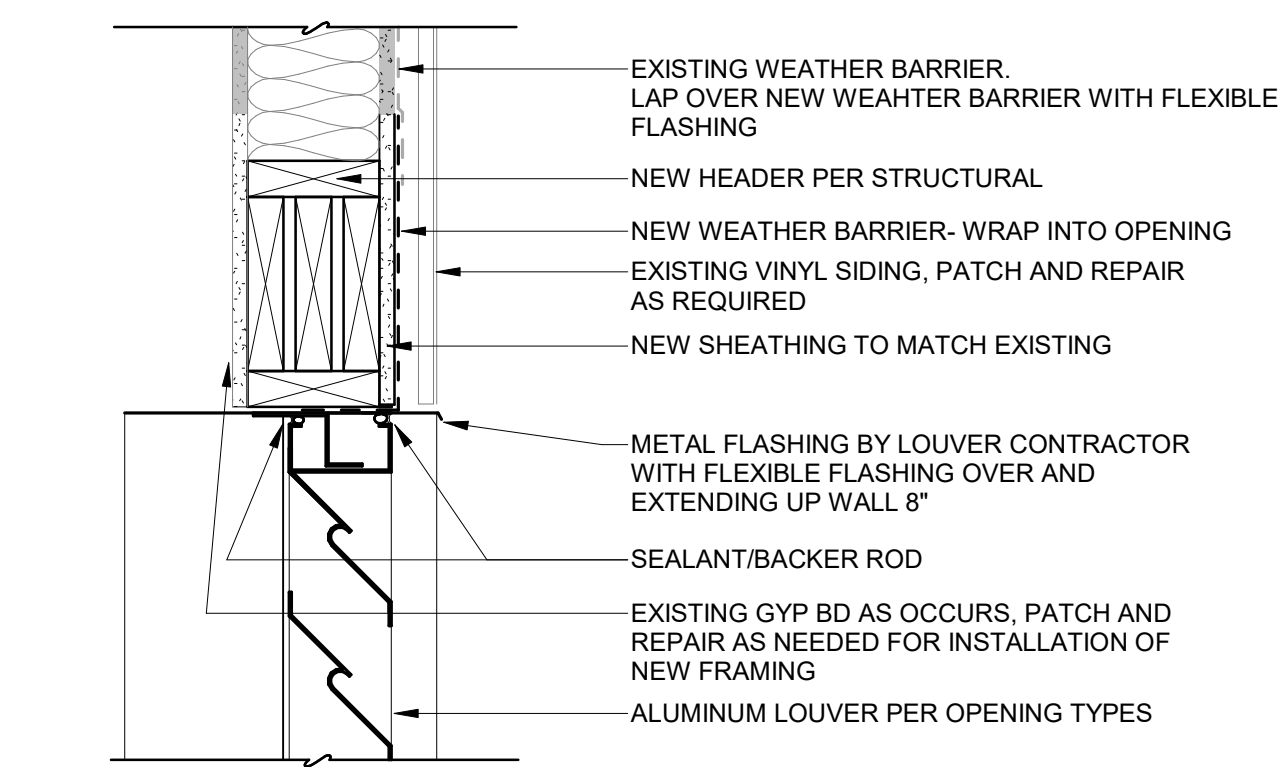
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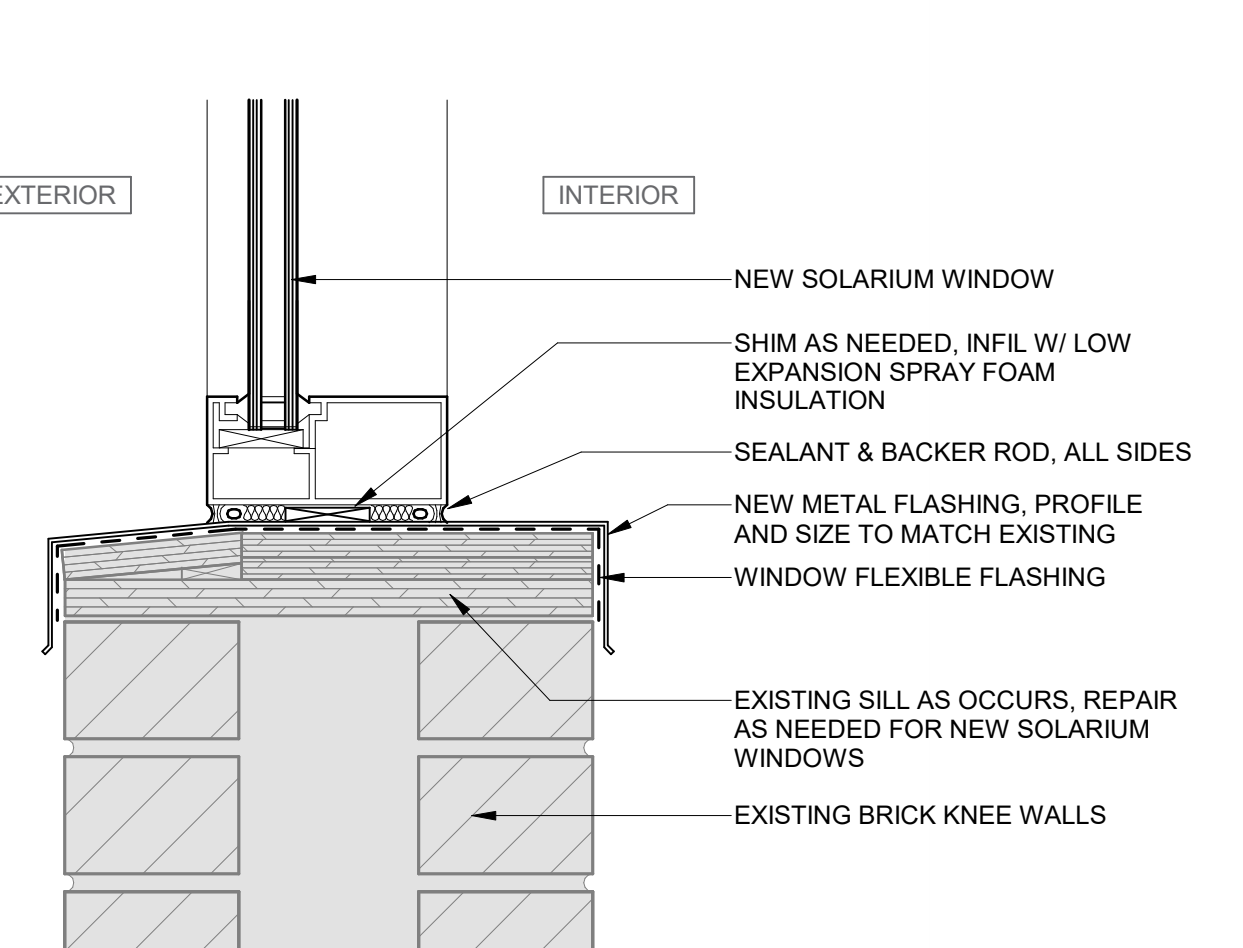
B4 JAMB DETAIL AT FACE BRICK



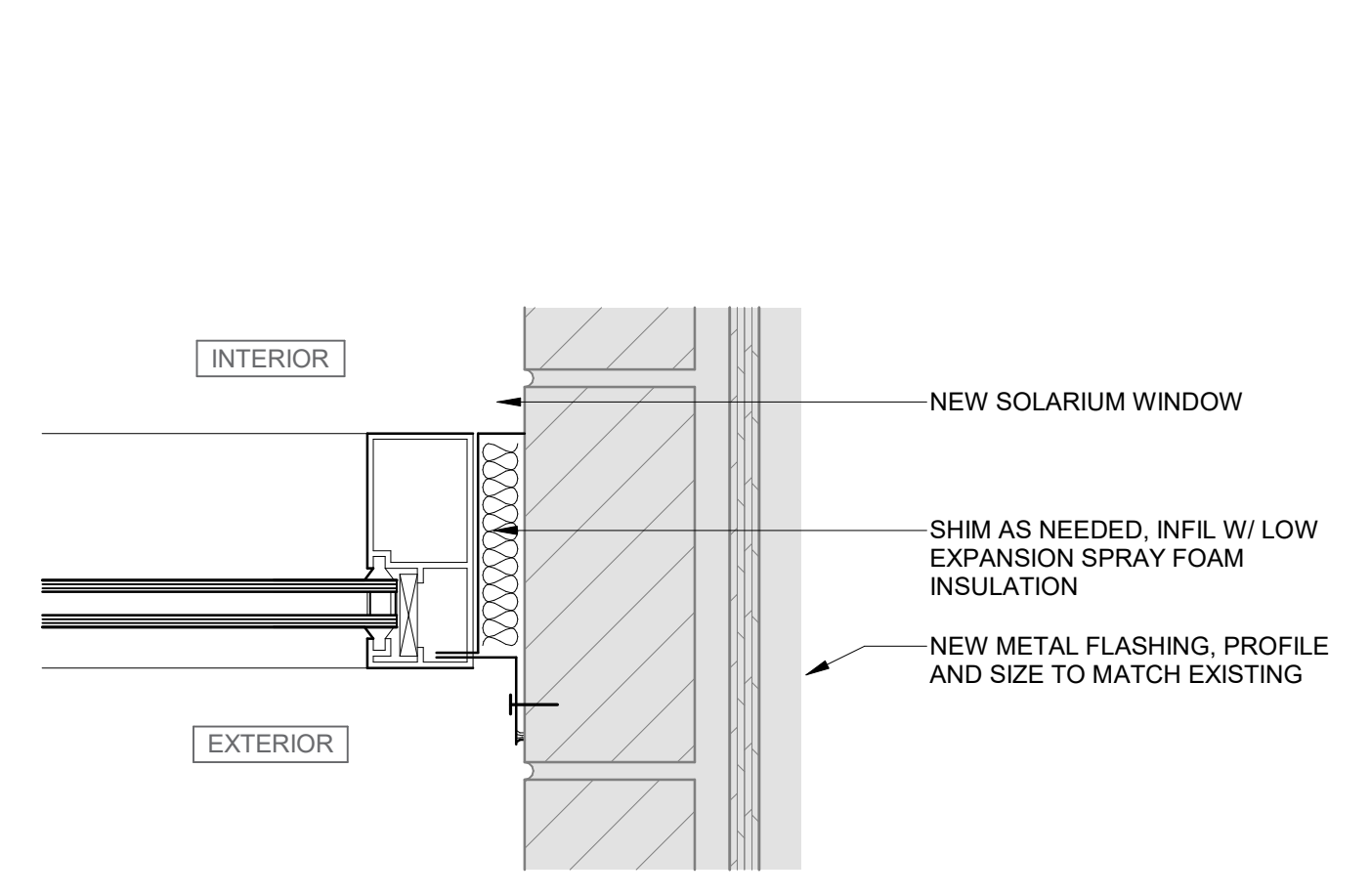
C4 WALL INFILL AT AREA B EXISTING OPENING



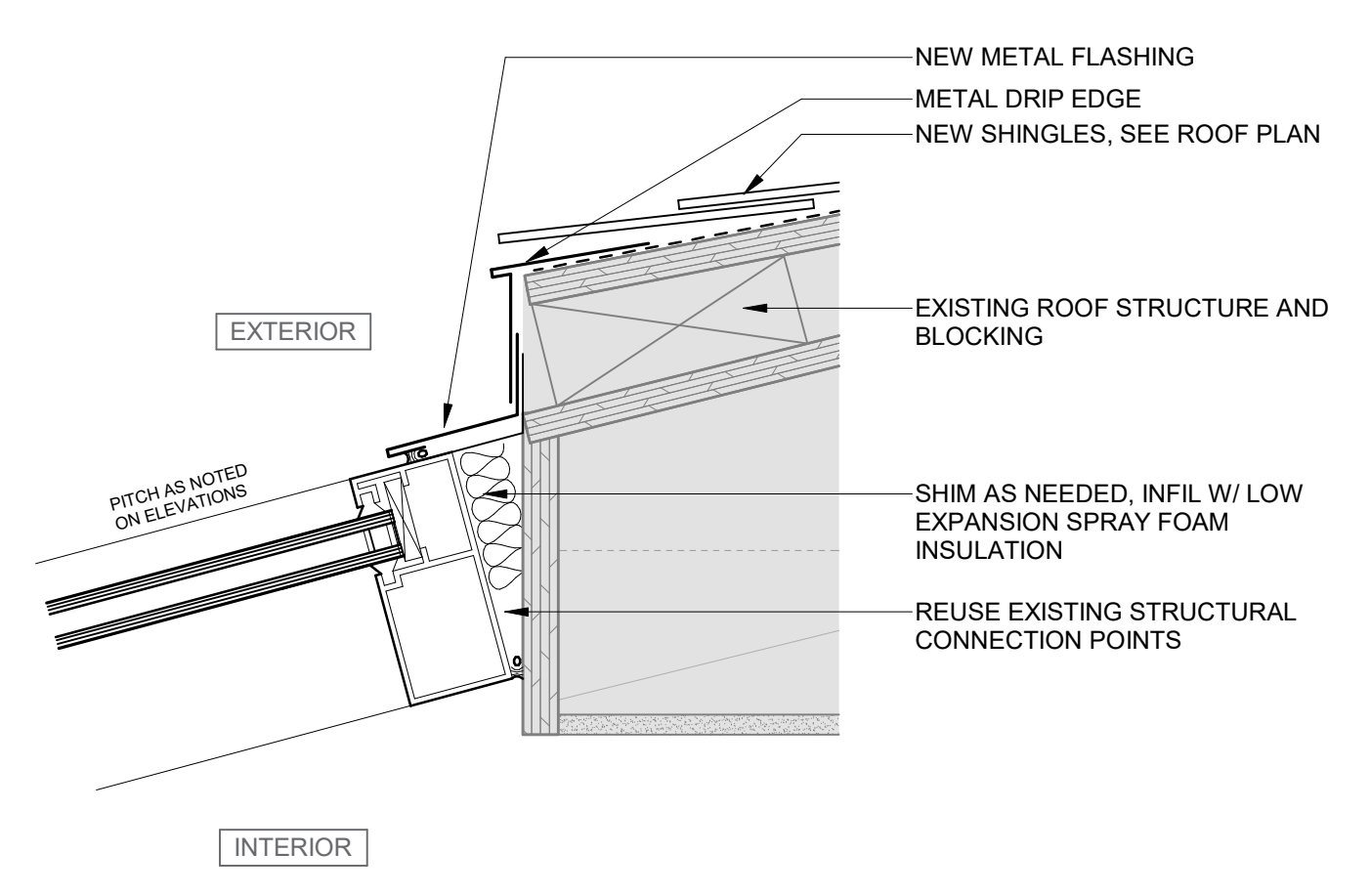
C7 SECONDARY ENTRY & EXIT DOOR THRESHOLD



DE SOLARIUM JAMB AT EXISTING BRICK WALL

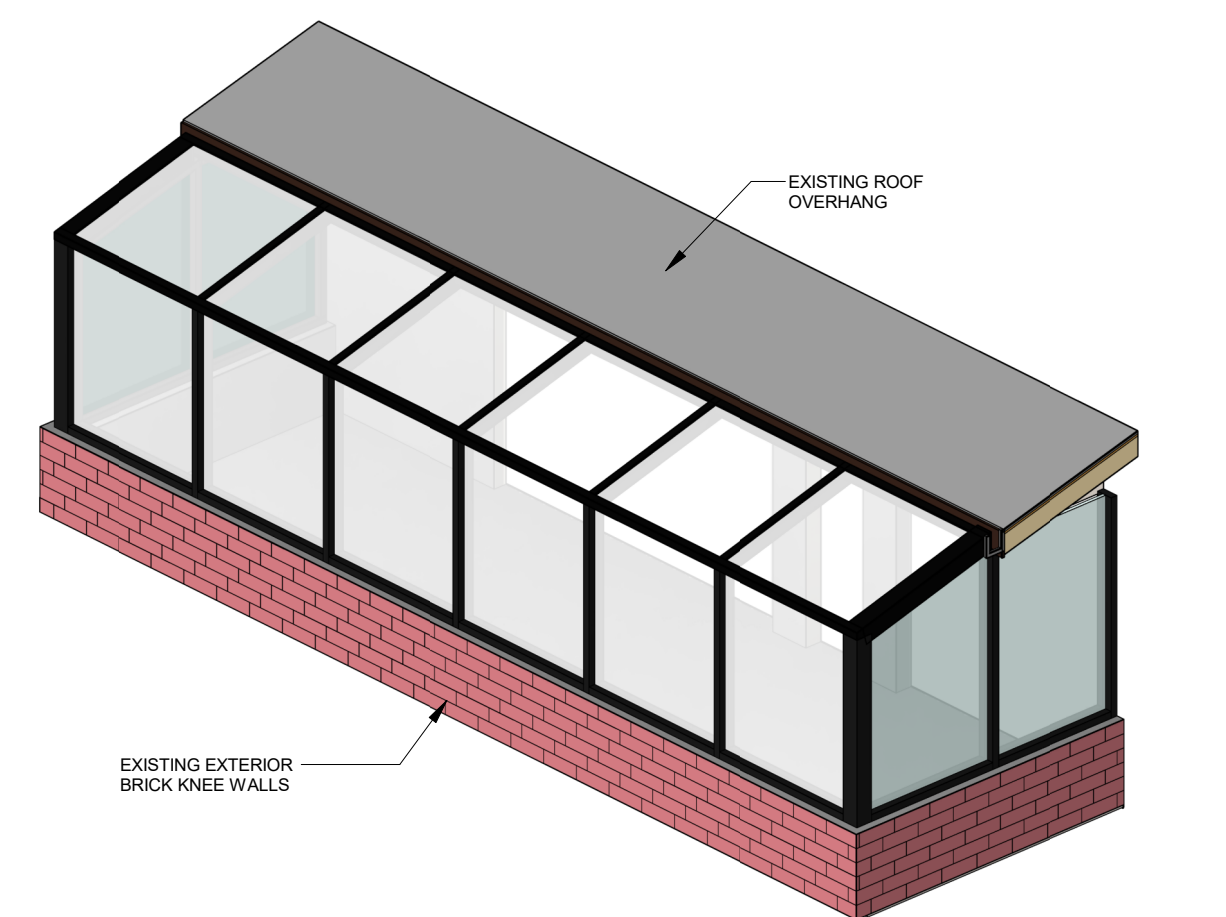


D7 SOLARIUM WINDOW HEAD CONNECTION AT ROOF OVERHANG



E4 TYPICAL SECTION AT MULLION

SOLARIUM AXON



NOT TO SCALE

FOR REFERENCE ONLY

57 LOUVER HEAD AT EXISTING MASONRY

100% CD SET

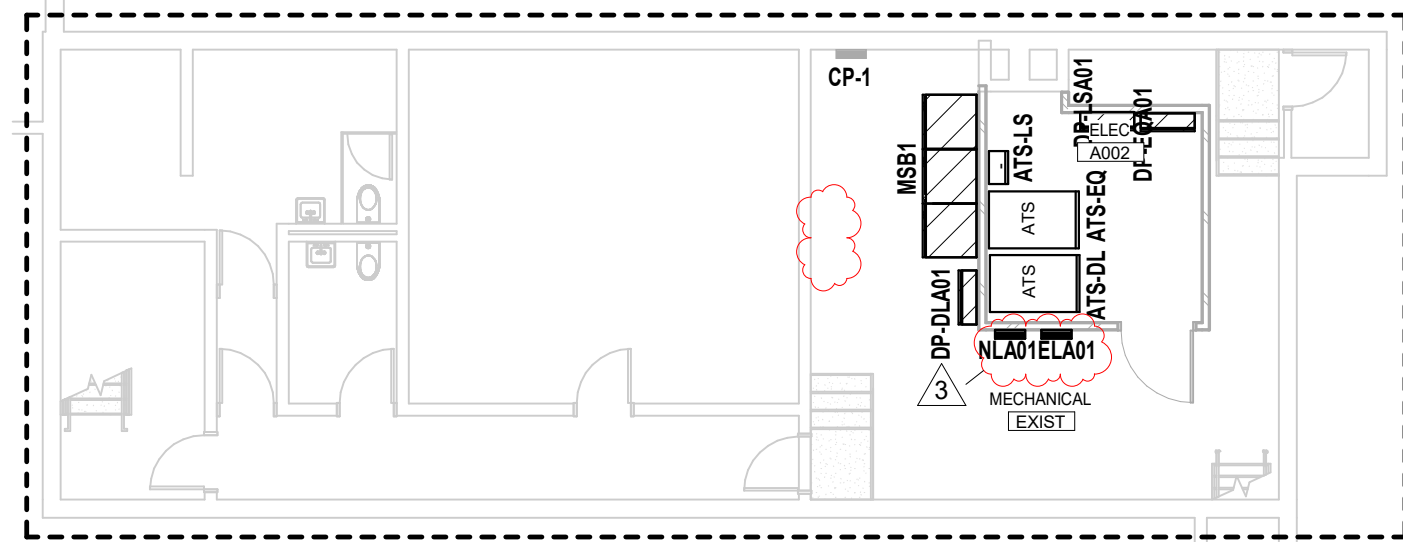
7. References

7. References

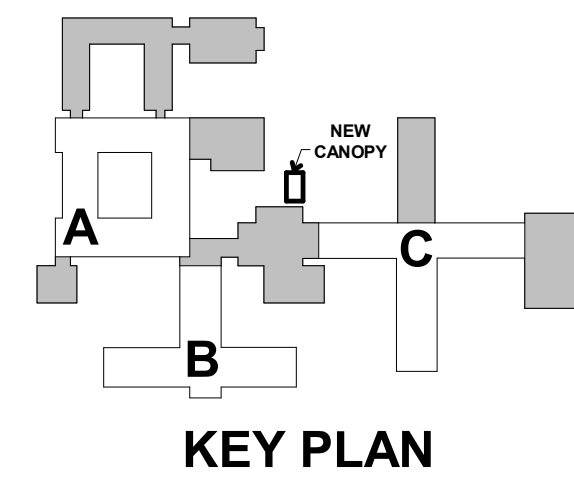
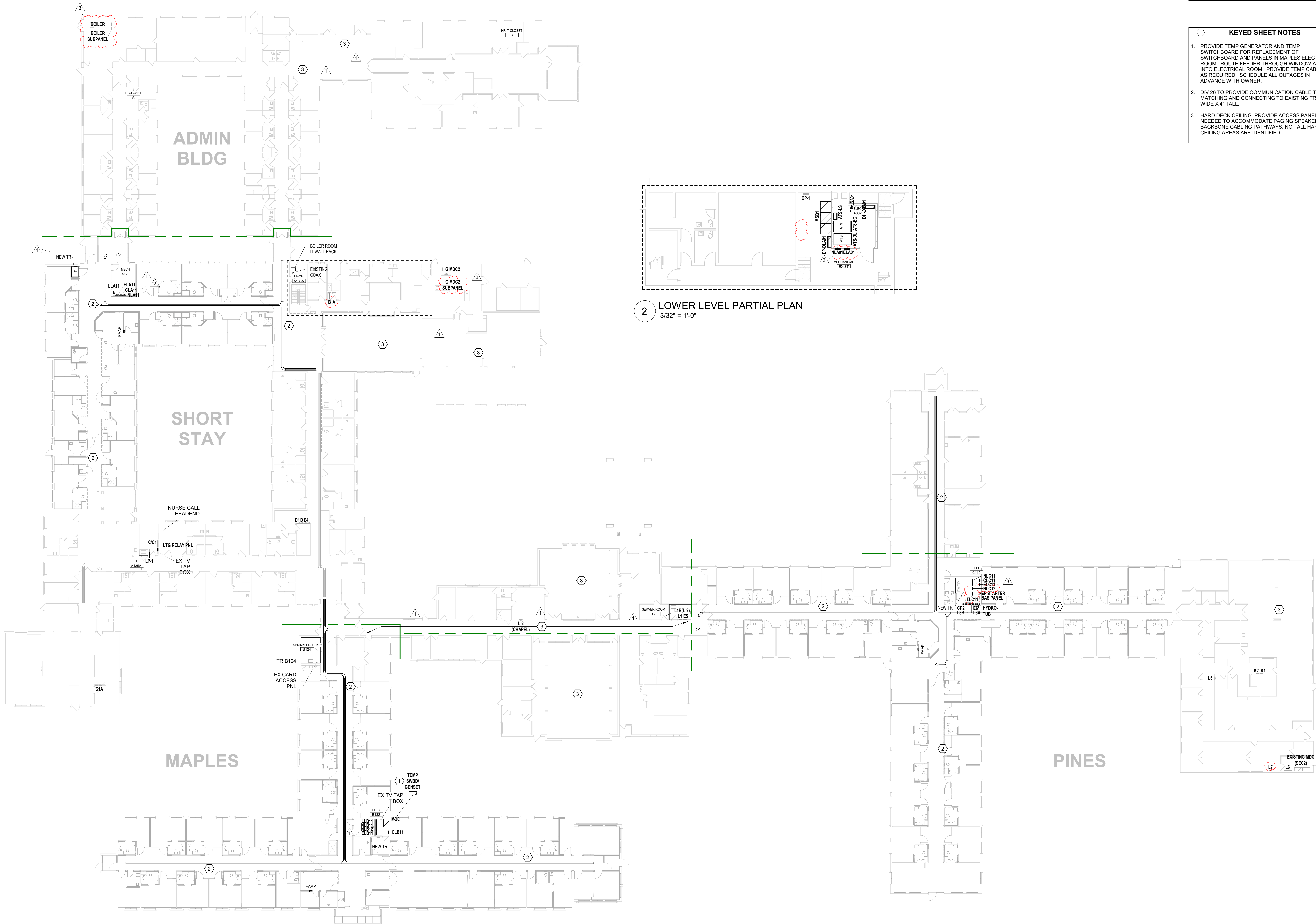


- GENERAL SHEET NOTES**
- THIS SHEET IS INTENDED FOR REFERENCE AND ORIENTATION ONLY, UNLESS OTHERWISE NOTED.
 - REFER TO OTHER SHEETS FOR MORE DETAILED INFORMATION.
 - REMOVE AND REINSTALL CEILING TILES AS REQUIRED TO ACCOMMODATE ABOVE CEILING WORK IN AREAS WHERE CEILINGS ARE NOT REPLACED. PROVIDE NEW TILES TO REPLACE ANY DAMAGED DURING WORK.

- KEYED SHEET NOTES**
- PROVIDE TEMP GENERATOR AND TEMP SWITCHBOARD FOR REPLACEMENT OF SWITCHBOARD AND PANELS IN MAPLES ELECTRICAL ROOM. ROUTE FEEDER THROUGH WINDOW AND INTO ELECTRICAL ROOM. PROVIDE TEMP CABLING AS REQUIRED. SCHEDULE ALL OUTAGES IN ADVANCE WITH OWNER.
 - DIV 26 TO PROVIDE COMMUNICATION CABLE TRAY MATCHING AND CONNECTING TO EXISTING TRAY, 12" WIDE X 4" TALL.
 - HARD DECK CEILING, PROVIDE ACCESS PANELS AS NEEDED TO ACCOMMODATE PAGING SPEAKERS AND BACKBONE CABLING PATHWAYS. NOT ALL HARD CEILING AREAS ARE IDENTIFIED.



2 LOWER LEVEL PARTIAL PLAN
3/32" = 1'-0"



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SITHA CHHUM
License Number: 54863 Date: 06/29/2025

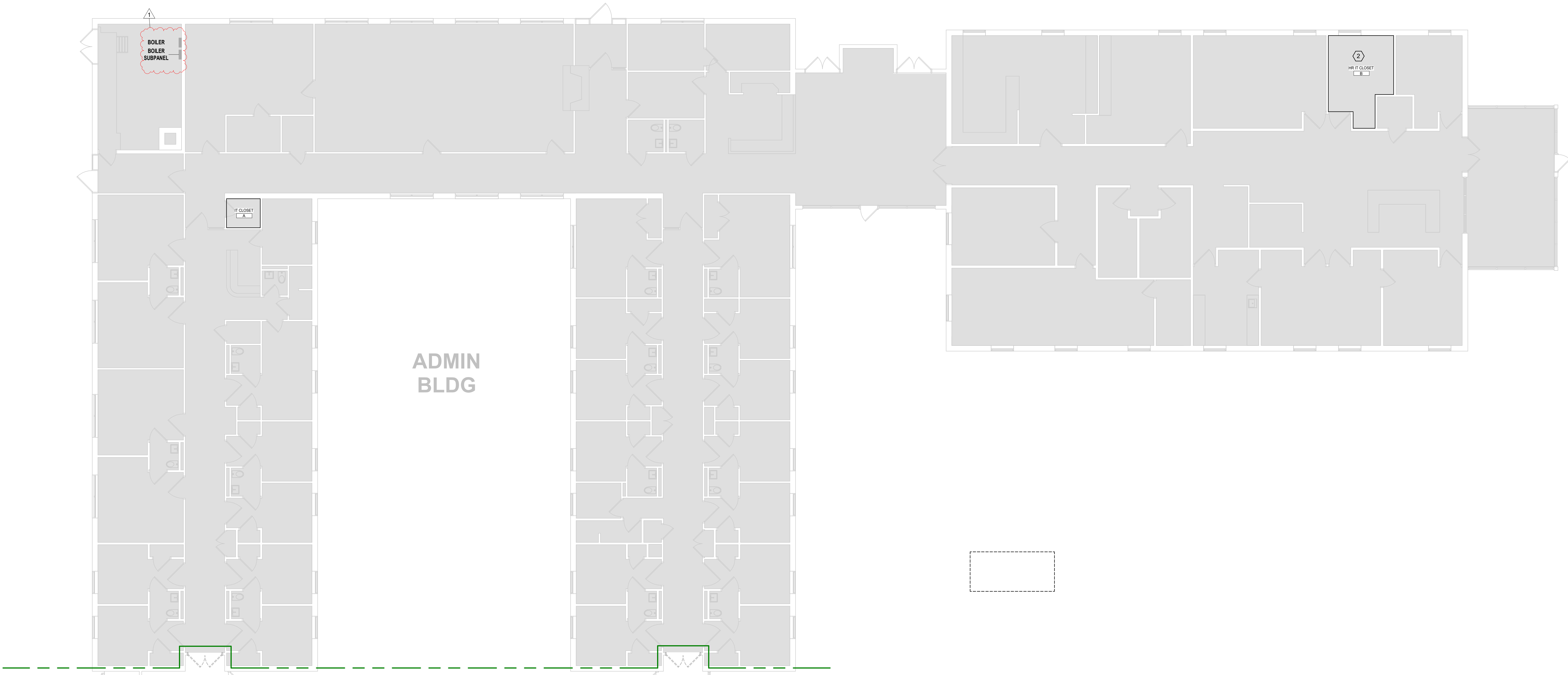
Description	Revisions	Date	Num
Addendum #2		2025-08-11	1
Addendum #3		2025-08-18	2
Addendum #4		2025-08-22	3

Comm: 246040
Date: 08/28/2025
Drawn: H. Nelson
Check: S. Chhum
North

OVERALL PLAN

Scale: As indicated

A
B
C
D
E
F



- GENERAL SHEET NOTES**
- A. SOME NOTES MAY NOT APPLY TO THIS SHEET.
 - B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.
 - C. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.
 - D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.
 - E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
 - F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATIONS/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
 - G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.
 - H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).
 - I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.
 - J. DEMOLISH DUCT SMOKE DETECTORS AND DAMPERS AS REQUIRED BY MECH.
 - K. DEMO ALL EXISTING PAGING CABLING, SPEAKERS, AND HEAD END EQUIPMENT THROUGHOUT THE FACILITY FOR FULL PAGING REPLACEMENT.
- GRAY AREAS TO SHOW ADDED SCOPE FOR NURSE CALL AND PAGING SPEAKER REPLACEMENT.

- KEYED SHEET NOTES**
- 1. DEMO EXISTING DATA RACK AND ASSOCIATED DATA CABLING BACK TO SOURCE. WHERE CABLING EXISTS IN NON-CONTRACT AREAS, RE-PULL NEW CABLING TO TR A124. DEMO EXISTING FIBER BACK TO SOURCE. THIS WILL BE DONE PER PHASE. EXISTING ACTIVE CABLE TO REMAIN LIVE UNTIL CUTOVER.
 - 2. DEMOLISH ALL EXISTING LIGHTING, LIGHTING CONTROLS, WALL AND CEILING MOUNTED DEVICES, AND CONNECTIONS TO ELECTRIC FIN TUBE RADIATORS. DEMOLISHED ITEMS SHOWN FOR REFERENCE ONLY. ACTUAL QUANTITIES MAY VARY.
 - 3. DEMO EXISTING DATA/VOICE CABLING AND ASSOCIATED FACEPLATE BACK TO SOURCE IN CONSTRUCTIONS AREA. MAINTAIN CONNECTIVITY ON ALL EXISTING ACTIVE CABLING RUNNING THROUGH CONSTRUCTION SPACE.
 - 4. DEMO EXISTING COAX CABLING BACK TO SOURCE. EXISTING COAX MAY BE RE-USED IF IT MEETS SPECIFICATION AND IS IN GOOD CONDITION. PROVIDE NEW COMPRESSION STYLE CONNECTORS, INSERTS AND FACEPLATE PER SPEC.
 - 5. DEMOLISH EXISTING LIGHTING RELAY PANEL. TRANSFER ANY REMAINING LOADS TO NEW PANEL.

**Nelson Care Center
Renovation**

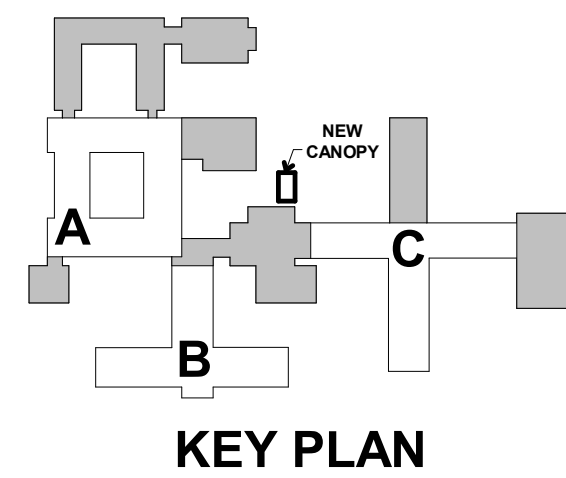
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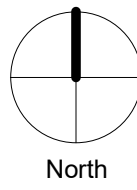


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SITHA CHHUM
License Number: 54883 Date: 06/29/2025

Description	Revisions	Date	Num
Addendum #4		2025-09-22	1

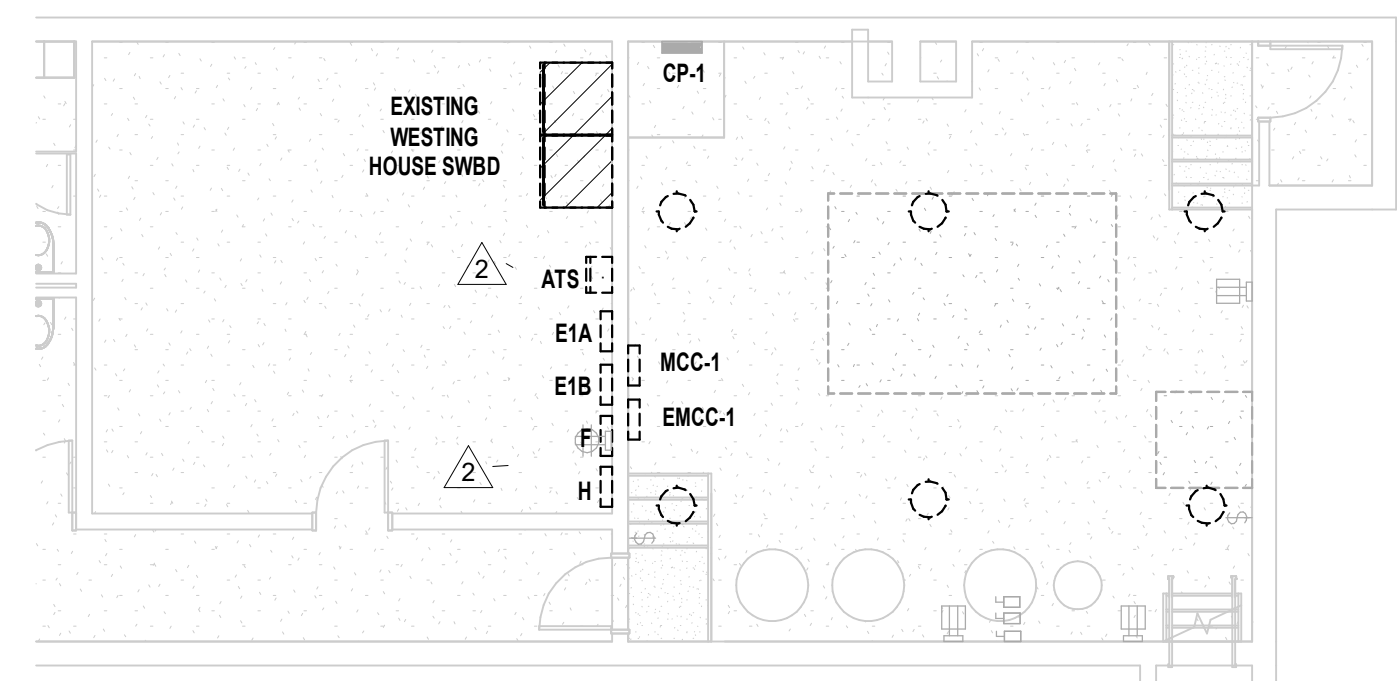
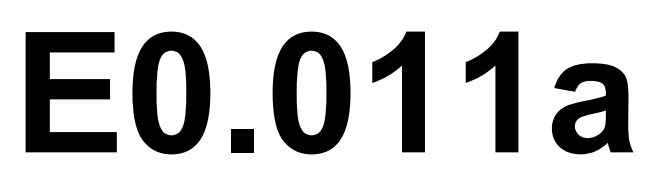
Comm: 246040
Date: 08/28/2025
Drawn: H. Nelson
Check: S. Chhum



**ELECTRICAL
DEMOLITION
PLAN - ADMIN
BLDG**

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

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Minneapolis, Minnesota 55402
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2 LOWER LEVEL DEMOLITION PLAN
1/8" = 1'-0"

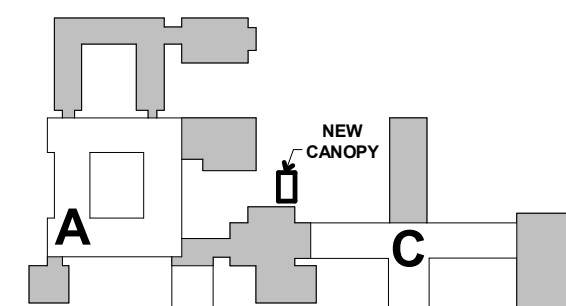


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- GENERAL SHEET NOTES**
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 - DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.
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 - FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATIONS DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.
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 - DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUITS.
 - FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.
 - DEMOLISH DUCT SMOKE DETECTORS AND DAMPERS AS REQUIRED BY MECH.
 - DEMO ALL EXISTING PAGING CABLING, SPEAKERS, AND HEAD END EQUIPMENT THROUGHOUT THE FACILITY FOR FULL PAGING REPLACEMENT.
- GRAY AREAS TO SHOW ADDED SCOPE FOR NURSE CALL AND PAGING SPEAKER REPLACEMENT.

- KEYED SHEET NOTES**
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 - DEMOLISH ALL EXISTING LIGHTING, LIGHTING CONTROLS, WALL AND CEILING MOUNTED DEVICES, AND CONNECTIONS TO ELECTRIC FIN TUBE RADIATORS. DEMOLISHED ITEMS SHOWN FOR REFERENCE ONLY. ACTUAL QUANTITIES MAY VARY.
 - DEMO EXISTING DATA/VOICE CABLING AND ASSOCIATED FACEPLATE BACK TO SOURCE IN CONSTRUCTION AREA. MAINTAIN CONNECTIVITY ON ALL EXISTING ACTIVE CABLING RUNNING THROUGH CONSTRUCTION SPACE.
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 - DEMOLISH EXISTING LIGHTING RELAY PANEL. TRANSFER ANY REMAINING LOADS TO NEW PANEL.



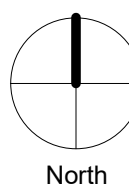
KEY PLAN

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SITHA CHHUM
License Number: 54663 Date: 06/29/2025

Description	Revisions	Date	Num
Addendum #2		2025-09-11	1
Addendum #4		2025-09-22	2

Comm: 246040
Date: 08/28/2025
Drawn: H. Nelson
Check: S. Chhum



ELECTRICAL
DEMOLITION
PLAN - AREA 'C'

Scale: As indicated

E0.011c



1 ELECTRICAL DEMOLITION PLAN - AREA C
3/32" = 1'-0"



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GENERAL SHEET NOTES

- SOME NOTES MAY NOT APPLY TO THIS SHEET.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ALL ELECTRICAL ITEMS SHOWN ON THIS DRAWING. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
- CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
- ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT.
- ALL BOXES, CONDUIT AND WIRING TO BE CONCEALED. NO EXPOSED BOXES. CONDUIT AND WIRING SHALL BE ALLOWED UNLESS NOTED OTHERWISE.
- NO MULTI-BRANCH CIRCUIT ALLOWED. PROVIDE A SEPARATE NEUTRAL WITH EACH CIRCUIT.
- COORDINATE LUMINAIRE LOCATIONS WITH OTHER TRADES INCLUDING HVAC EQUIPMENT, DUCTWORK, SPRINKLER PIPING AND BUILDING STRUCTURAL MEMBERS.
- PROVIDE SEPARATED CONDUITS FOR ALL EMERGENCY AND EGRESS LIGHTING CIRCUITS. DO NOT COMBINE WITH NORMAL BUILDING WIRING.
- ALL EXIT SIGNS AND BATTERY EGRESS FIXTURES TO BE CONNECTED TO NEAREST EMERGENCY LIGHTING CIRCUIT AHEAD OF ANY SWITCHING.
- ALL EXTERIOR LIGHTING TO BE CONNECTED TO LIGHTING CONTROL RELAY SYSTEM UNLESS NOTED OTHERWISE.
- LIGHT FIXTURE WHIPS OF TYPE AC AND TYPE MC WITH GROUND WIRE SHALL BE ALLOWED ONLY ABOVE ACCESSIBLE GRID-TYPE SUSPENDED CEILING. MAX LENGTH OF 6 FEET. MAXIMUM OF 4 WHIPS PER JUNCTION BOX. DIRECT FIXTURE TO FIXTURE CONNECTIONS ARE NOT ALLOWED.
- SEE LIGHTING CONTROL SCHEDULE. ALL OCCUPANCY SENSORS SHALL HAVE AUXILIARY CONTACTS OR ADDITIONAL DEVICES TO ENABLE HVAC INTERFACE.

- NORMAL OPERATING LIGHT FIXTURE. FEED FIXTURE USING EXISTING LIGHTING CIRCUITRY FROM NORMAL PANEL.
- SWITCHED EMERGENCY LIGHT. FEED FIXTURE FROM EMERGENCY PANEL VIA EMERGENCY RELAY AS INDICATED ON PLAN.
- UNSWITCHED EMERGENCY LIGHT (NIGHT LIGHT). FEED FIXTURE FROM UNSWITCHED CIRCUIT IN EMERGENCY PANEL.
- FEED EXIT LIGHTS FROM UNSWITCHED CIRCUIT IN EMERGENCY PANEL.
- FIXTURE TYPE
- FIXTURE NOTES
- RELAY # / PANEL CIRCUIT #
- SWITCHING SCHEME
1. MAXIMUM ALLOWABLE WATTAGE FOR A LIGHTING CIRCUIT WILL NOT EXCEED 3500 (277V) OR 1800 (120V) WATTS.

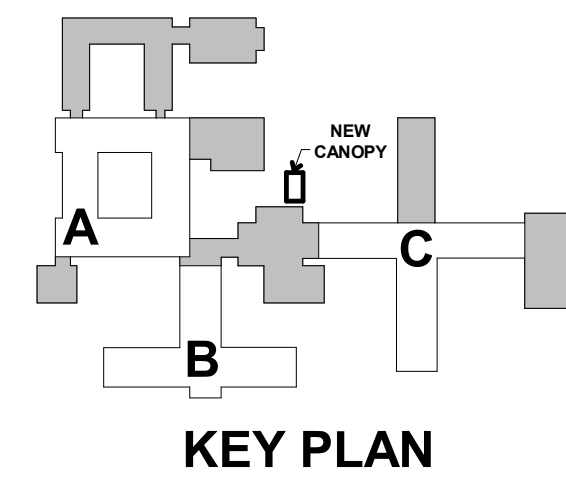
KEYED SHEET NOTES

- SEE ENLARGED PLANS FOR TYPICAL LIGHTING LAYOUT.
- LOCATE DIMMING WALL CONTROLS FOR CORRIDOR LIGHTING IN NURSING OFFICE. PROVIDE COMPATIBLE DIMMERS FOR TYPES 'B3' AND 'D1'. LOCATE LV, ON/OFF SWITCHES IN CORRIDOR FOR TYPES 'A1' LIGHTING.
- CONNECT NEW LIGHTING TO EXISTING LIGHTING CIRCUITS AND CONTROLS. PROVIDE NEW COMPATIBLE DIMMERS FOR 'P2' LIGHTING TYPE.
- CONNECT NEW LIGHTING TO EXISTING LIGHTING CIRCUITS.
- CONNECT NEW EXTERIOR LIGHTING TO NEW LIGHTING RELAY PANEL.
- PROVIDE NEW 16 SPACE LIGHTING RELAY PANEL. TRANSFER EXISTING LOADS. PROVIDE WITH PHYSICAL SEPARATION BETWEEN NORMAL AND EGRESS LOADS AND SPARE RELAYS FOR FUTURE USE.

LIGHTING CONTROLS SCHEDULE

MARK	INTENDED LOCATIONS OF USE	WALL SWITCH #/EGS	OCC SENSOR LOCATION	MANUAL / AUTO	DIMMING	DAY LIGHT
◇	OFFICES, CONF. RMS, MEDS	1	CEILING	MANUAL	X	
◇	SM, TOILETS	1	WALL	AUTO		
◇	SM STORAGE/UTILITY	1	WALL	MANUAL		
◇	LG STORAGE	1	CEILING	MANUAL		
◇	LOUNGE, SITTING AREA, FITNESS	SEE PLANS	CEILING	MANUAL	X	
◇						
◇	PATIENT CARE, NS, RESIDENT ROOMS	LINE	NONE	NA		
◇	MECH/ELEC ROOMS	LINE	NONE	NA		
◇	CORRIDORS	LINE	NONE	NA		

GENERAL NOTES:
A. SCHEMES ARE SCHEMATIC. PROVIDE WIRING AND COMPONENTS AS REQUIRED.
B. PROVIDE MULTIPLE SWITCH LOCATIONS (3-WAY SWITCHING) IF INDICATED ON PLANS.
C. INTERCONNECT ALL SENSORS IF MULTIPLE SENSORS ARE SHOWN WITHIN SAME ROOM, UNLESS INDICATED OTHERWISE.
D. PROVIDE EMERGENCY RELAYS AS INDICATED ON PLANS.
E. ALL OCCUPANCY SENSORS SHALL HAVE AUXILIARY CONTACTS OR ADDITIONAL DEVICES TO ENABLE HVAC INTERFACE.

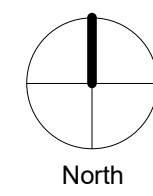


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SITHA CHHUM
License Number: 54883 Date: 06/29/2025

Description	Revisions	Num
Addendum #2	2025-09-11	1
Addendum #3	2025-09-18	2
Addendum #4	2025-09-22	3

Comm: 246040
Date: 08/28/2025
Drawn: H. Nelson
Check: S. Chhum



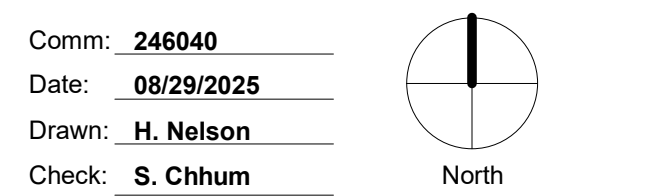
LIGHTING PLAN -
AREA 'C'

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

E1.001c

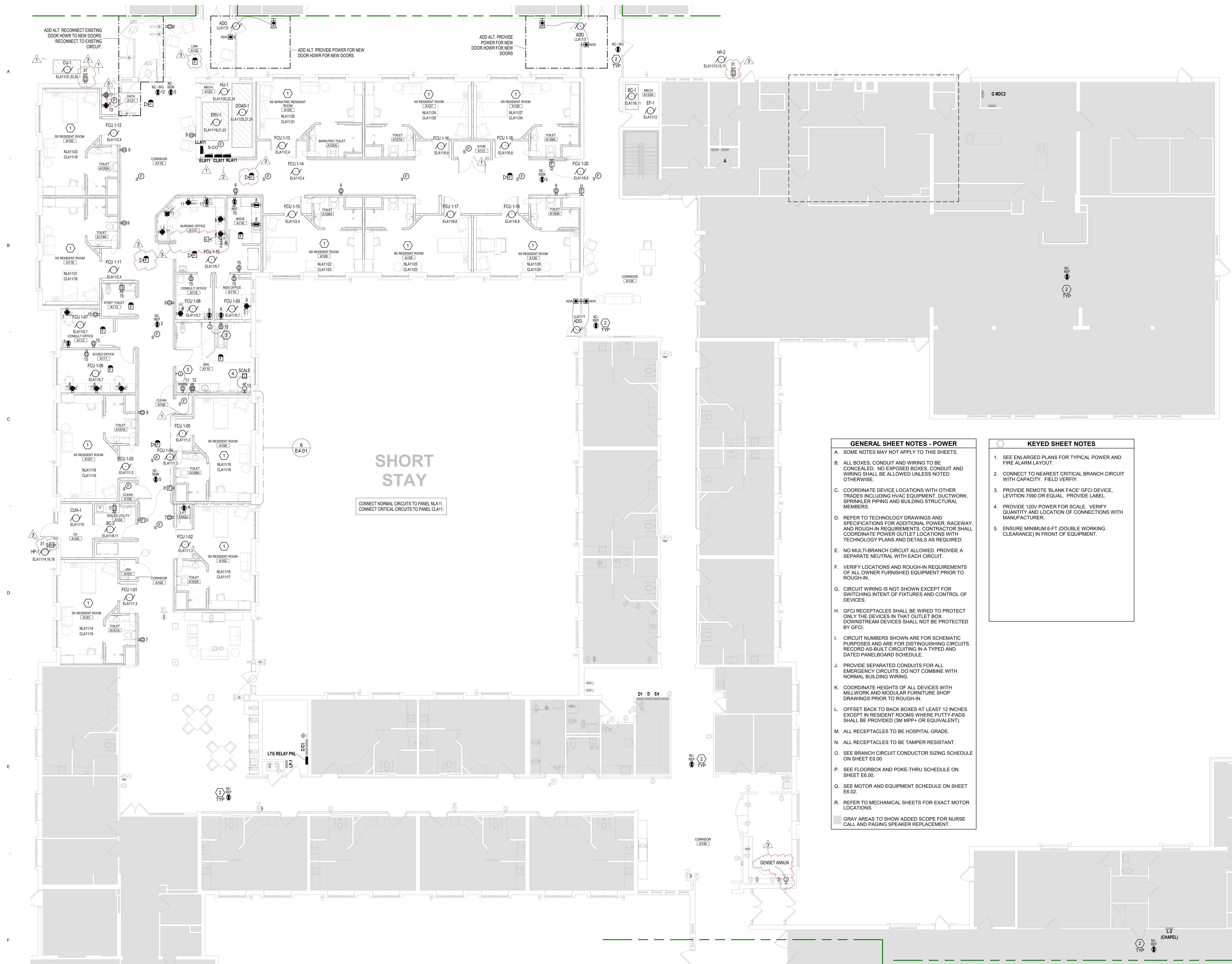
1 LIGHTING PLAN - AREA C
1/8" = 1'-0"

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E2.001a

E

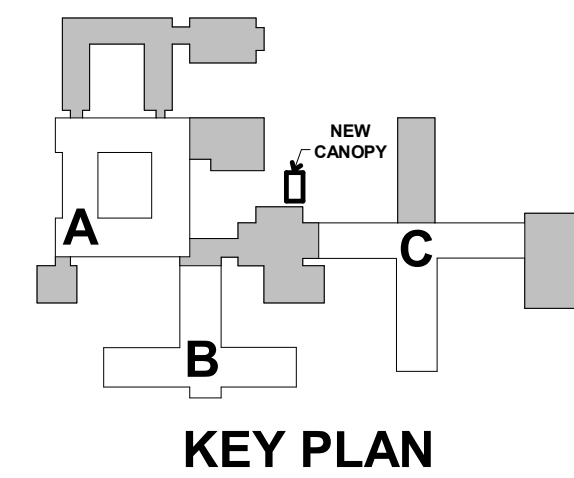


1 POWER & FA PLAN - AREA A
1/8" = 1'-0"



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SITHA CHHUM
License Number: **54683** Date: **06/29/2025**

Description	Revisions	Date	Num
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Addendum #4		2025-09-22	3

Comm: **246040**
Date: **08/29/2025**
Drawn: **H. Nelson**
Check: **S. Chhum**
North

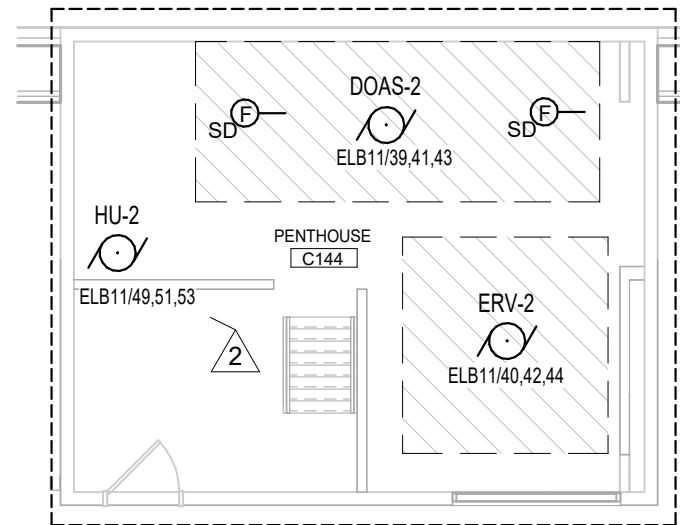
POWER & FA
PLAN - AREA 'B'

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

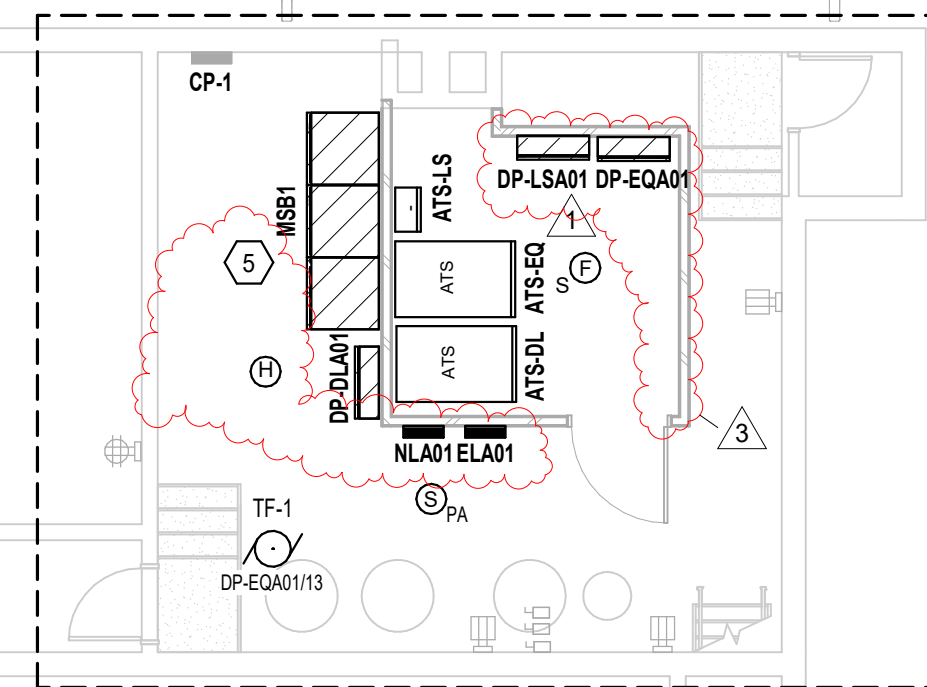
E2.001b

- GENERAL SHEET NOTES - POWER**
- SOME NOTES MAY NOT APPLY TO THIS SHEETS.
 - ALL BOXES, CONDUIT AND WIRING TO BE CONCEALED. NO EXPOSED BOXES, CONDUIT AND WIRING SHALL BE ALLOWED UNLESS NOTED OTHERWISE.
 - COORDINATE DEVICE LOCATIONS WITH OTHER TRADES INCLUDING HVAC EQUIPMENT, DUCTWORK, SPRINKLER PIPING AND BUILDING STRUCTURAL MEMBERS.
 - REFER TO TECHNOLOGY DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL POWER, RACEWAY, AND ROUGH-IN REQUIREMENTS. CONTRACTOR SHALL COORDINATE POWER OUTLET LOCATIONS WITH TECHNOLOGY PLANS AND DETAILS AS REQUIRED.
 - NO MULTI-BRANCH CIRCUIT ALLOWED. PROVIDE A SEPARATE NEUTRAL WITH EACH CIRCUIT.
 - VERIFY LOCATIONS AND ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN.
 - CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
 - GFCI RECEPTACLES SHALL BE WIRED TO PROTECT ONLY THE DEVICES IN THAT OUTLET BOX. DOWNSTREAM DEVICES SHALL NOT BE PROTECTED BY GFCI.
 - CIRCUIT NUMBERS SHOWN ARE FOR SCHEMATIC PURPOSES AND ARE FOR DISTINGUISHING CIRCUITS. RECORD AS-BUILT CIRCUITING IN A TYPED AND DATED PANELBOARD SCHEDULE.
 - PROVIDE SEPARATED CONDUITS FOR ALL EMERGENCY CIRCUITS. DO NOT COMBINE WITH NORMAL BUILDING WIRING.
 - COORDINATE HEIGHTS OF ALL DEVICES WITH MILLWORK AND MODULAR FURNITURE SHOP DRAWINGS PRIOR TO ROUGH-IN.
 - OFFSET BACK TO BACK BOXES AT LEAST 12 INCHES EXCEPT IN RESIDENT ROOMS WHERE PUTTY-PADS SHALL BE PROVIDED (3M MPP+ OR EQUIVALENT).
 - ALL RECEPTACLES TO BE HOSPITAL GRADE.
 - ALL RECEPTACLES TO BE TAMPER RESISTANT.
 - SEE BRANCH CIRCUIT CONDUCTOR SIZING SCHEDULE ON SHEET E0.00
 - SEE FLOORBOX AND POKE-THRU SCHEDULE ON SHEET E6.00.
 - SEE MOTOR AND EQUIPMENT SCHEDULE ON SHEET E6.02.
 - REFER TO MECHANICAL SHEETS FOR EXACT MOTOR LOCATIONS.
 - GRAY AREAS TO SHOW ADDED SCOPE FOR NURSE CALL AND PAGING SPEAKER REPLACEMENT.

- KEYED SHEET NOTES**
- SEE ENLARGED PLANS FOR TYPICAL POWER AND FIRE ALARM LAYOUT.
 - CONNECT TO NEAREST CRITICAL BRANCH CIRCUIT WITH CAPACITY. FIELD VERIFY.
 - PROVIDE REMOTE 'BLANK FACE' GFCI DEVICE, LEVITON 7590 OR EQUAL. PROVIDE LABEL.
 - PROVIDE 120V POWER FOR SCALE. VERIFY QUANTITY AND LOCATION OF CONNECTIONS WITH MANUFACTURER.
 - ENSURE MINIMUM 6-FT (DOUBLE WORKING CLEARANCE) IN FRONT OF EQUIPMENT.



2 PENTHOUSE POWER & FA
1/8" = 1'-0"

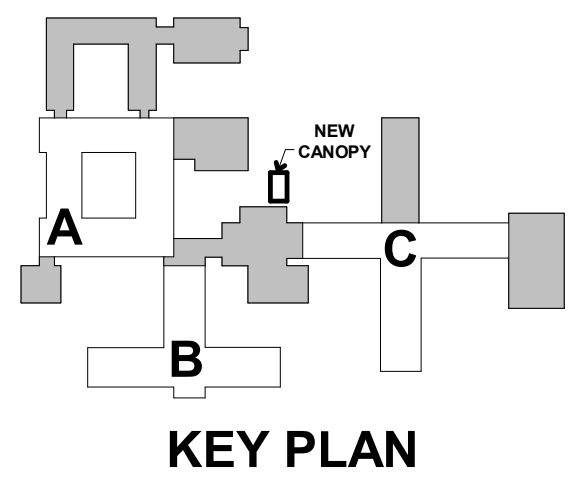


3 LOWER LEVEL PARTIAL PLAN - POWER
1/8" = 1'-0"

MAPLES

CONNECT NORMAL CIRCUITS TO PANEL NLB11.
CONNECT CRITICAL CIRCUITS TO PANEL CLB11.

1 POWER & FA PLAN - AREA B
1/8" = 1'-0"



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SITHA CHHUM
License Number: 54863 Date: 06/29/2025

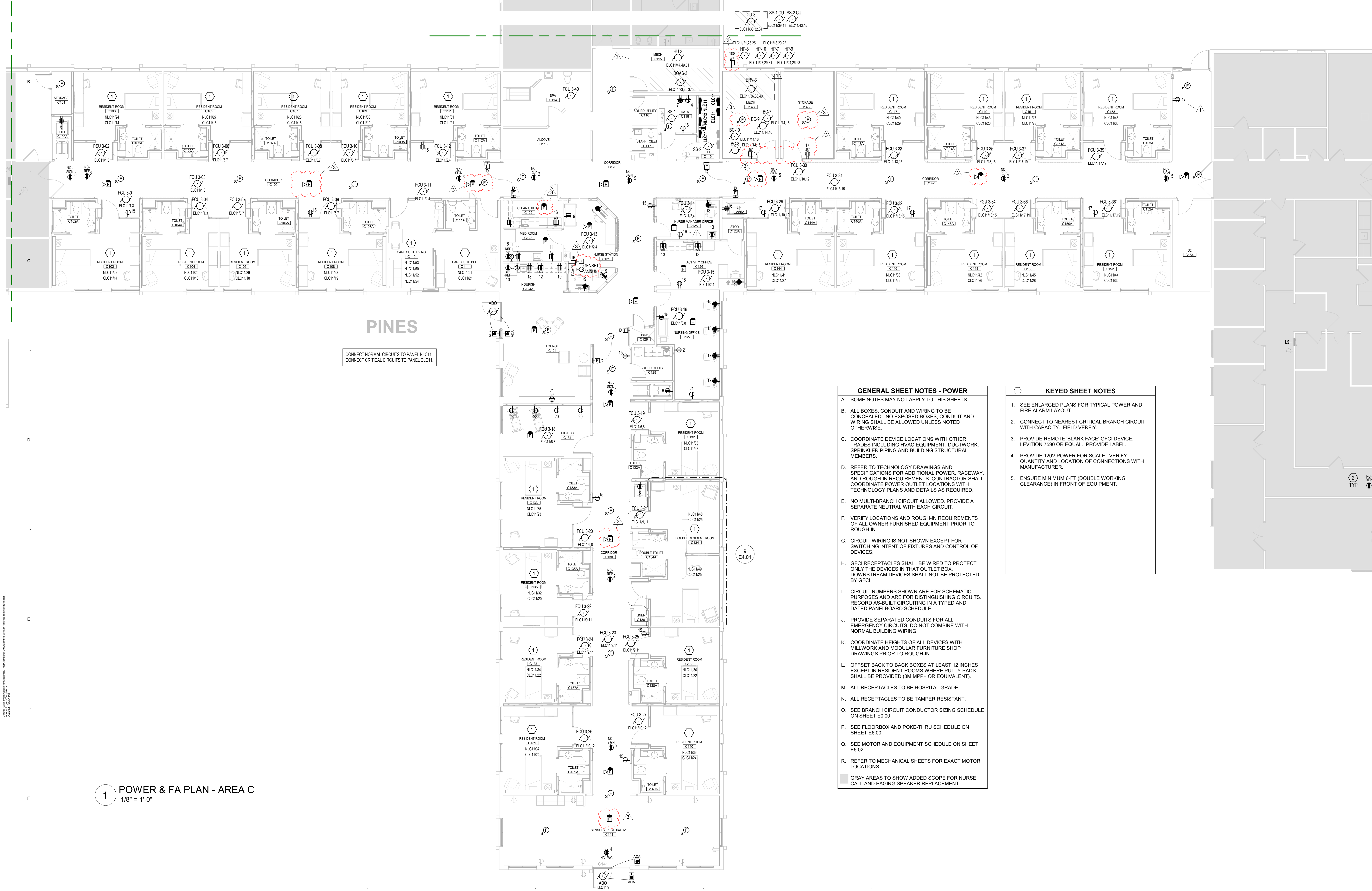
Description	Revisions	
	Date	Num
Addendum #2	2025-09-11	1
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Comm: 246040
Date: 08/28/2025
Drawn: H. Nelson
Check: S. Chhum
North

POWER & FA
PLAN - AREA 'C'

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

E2.001c



- GENERAL SHEET NOTES - POWER**
- A. SOME NOTES MAY NOT APPLY TO THIS SHEETS.
 - B. ALL BOXES, CONDUIT AND WIRING TO BE CONCEALED. NO EXPOSED BOXES, CONDUIT AND WIRING SHALL BE ALLOWED UNLESS NOTED OTHERWISE.
 - C. COORDINATE DEVICE LOCATIONS WITH OTHER TRADES INCLUDING HVAC EQUIPMENT, DUCTWORK, SPRINKLER PIPING AND BUILDING STRUCTURAL MEMBERS.
 - D. REFER TO TECHNOLOGY DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL POWER, RACEWAY, AND ROUGH-IN REQUIREMENTS. CONTRACTOR SHALL COORDINATE POWER OUTLET LOCATIONS WITH TECHNOLOGY PLANS AND DETAILS AS REQUIRED.
 - E. NO MULTI-BRANCH CIRCUIT ALLOWED. PROVIDE A SEPARATE NEUTRAL WITH EACH CIRCUIT.
 - F. VERIFY LOCATIONS AND ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN.
 - G. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
 - H. GFCI RECEPTACLES SHALL BE WIRED TO PROTECT ONLY THE DEVICES IN THAT OUTLET BOX. DOWNSTREAM DEVICES SHALL NOT BE PROTECTED BY GFCI.
 - I. CIRCUIT NUMBERS SHOWN ARE FOR SCHEMATIC PURPOSES AND ARE FOR DISTINGUISHING CIRCUITS. RECORD AS-BUILT CIRCUITING IN A TYPED AND DATED PANELBOARD SCHEDULE.
 - J. PROVIDE SEPARATED CONDUITS FOR ALL EMERGENCY CIRCUITS, DO NOT COMBINE WITH NORMAL BUILDING WIRING.
 - K. COORDINATE HEIGHTS OF ALL DEVICES WITH MILLWORK AND MODULAR FURNITURE SHOP DRAWINGS PRIOR TO ROUGH-IN.
 - L. OFFSET BACK TO BACK BOXES AT LEAST 12 INCHES EXCEPT IN RESIDENT ROOMS WHERE PUTTY-PADS SHALL BE PROVIDED (3M MPP+ OR EQUIVALENT).
 - M. ALL RECEPTACLES TO BE HOSPITAL GRADE.
 - N. ALL RECEPTACLES TO BE TAMPER RESISTANT.
 - O. SEE BRANCH CIRCUIT CONDUCTOR SIZING SCHEDULE ON SHEET E6.00.
 - P. SEE FLOORBOX AND POKE-THRU SCHEDULE ON SHEET E6.00.
 - Q. SEE MOTOR AND EQUIPMENT SCHEDULE ON SHEET E6.02.
 - R. REFER TO MECHANICAL SHEETS FOR EXACT MOTOR LOCATIONS.
- GRAY AREAS TO SHOW ADDED SCOPE FOR NURSE CALL AND PAGING SPEAKER REPLACEMENT.

- KEYED SHEET NOTES**
- 1. SEE ENLARGED PLANS FOR TYPICAL POWER AND FIRE ALARM LAYOUT.
 - 2. CONNECT TO NEAREST CRITICAL BRANCH CIRCUIT WITH CAPACITY. FIELD VERIFY.
 - 3. PROVIDE REMOTE 'BLANK FACE' GFCI DEVICE, LEVITON 7590 OR EQUAL. PROVIDE LABEL.
 - 4. PROVIDE 120V POWER FOR SCALE. VERIFY QUANTITY AND LOCATION OF CONNECTIONS WITH MANUFACTURER.
 - 5. ENSURE MINIMUM 6-FT (DOUBLE WORKING CLEARANCE) IN FRONT OF EQUIPMENT.

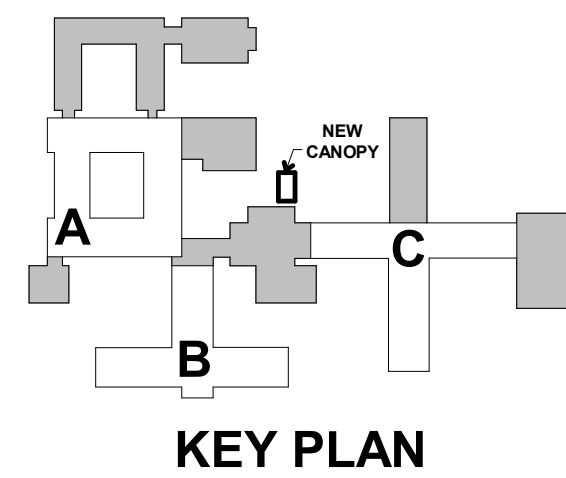
1 POWER & FA PLAN - AREA C
1/8" = 1'-0"



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- GENERAL SHEET NOTES - EXTENDED**
- A. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ALL ELECTRICAL ITEMS SHOWN ON THE DRAWINGS, EXCEPT ITEMS LISTED ON SHEET E0.01 GENERAL ELECTRICAL NOTES.
- B. SEE FIRE ALARM ZONE SCHEDULE FOR INITIATING ZONES AND SIGNAL CIRCUITS.
- C. COORDINATE WITH OTHER TRADES AND REFER TO DIV 27 & 28 SPECIFICATIONS FOR FULL REQUIREMENTS.
- D. MAINTAIN SEPARATION BETWEEN SECURITY/PAGING CABLING AND DATA CABLING.
- E. INSTALL DATA/SYSTEMS CONDUIT WITH NO MORE THAN (2) 90° BENDS BETWEEN PULL BOXES, AND NO MORE THAN 100'-0" BETWEEN PULL BOXES. PULL BOXES SHALL BE INSTALLED FOR STRAIGHT THRU PULLS ONLY.
- F. ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CONDUIT, CABLE TRAY, OR SUPPORTED BY CABLE HOOKS. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUIT WHERE STUBBED ABOVE ACCESSIBLE CEILINGS OR WHERE DROPPED INTO CABLE TRAY. PROVIDE CABLE HOOKS ABOVE ACCESSIBLE CEILINGS FOR CABLE INSTALLATION WHERE NOT INSTALLED IN CONDUIT OR CABLE TRAY.
- G. COORDINATE RECESSED CASEWORK DEVICES AND ABOVE COUNTER (AB) DEVICES WITH ARCHITECTURAL ELEVATION DRAWINGS AND DETAILS. MATCH ELEVATIONS WITH DIVISION 26 DEVICES UNLESS NOTED OTHERWISE.
- H. REFER TO FLOORBOX AND POKE-THRU SCHEDULE FOR FULL REQUIREMENTS AT EACH LOCATION. COORDINATE LOCATIONS PRIOR TO ROUGH-IN AS REQUIRED.
- I. PROVIDE ROUGH-IN FOR CARD READERS. (COORDINATE WITH OWNERS SECURITY CONTRACTOR.) REFER TO DETAILS IN E7 SERIES FOR ADDITIONAL INFORMATION.
- J. PROVIDE ROUGH-IN AND DATA CABLING FOR SECURITY CAMERA. LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD COORDINATED WITH OWNER FOR FINAL LOCATION. REFER TO DETAILS IN E7 SERIES FOR MORE INFORMATION. CAMERAS, MOUNTS, MOUNTING AND PROGRAMMING BY OWNER.
- K. REFER TO SHEET E7.01 FOR ADDITIONAL INFORMATION REGARDING SLEEVES.
- L. PROVIDE ROUGH-IN AND DATA CABLING FOR VIDEO INTERCOM AND MASTER STATIONS AS IDENTIFIED ON DRAWINGS. DEVICES AND PROGRAMMING BY OWNERS SECURITY CONTRACTOR.
- M. DIV 26 TO PROVIDE EXTERIOR PENETRATIONS/BOXES/CONDUIT FOR CAMERAS AND SPEAKERS. COORDINATE WITH DIV 27 AND OWNER'S SECURITY VENDOR.

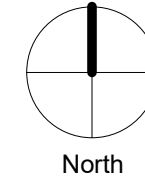


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SITHA CHHUM
License Number: 54663 Date: 06/29/2025

Revisions			
Description	Date		Num
Addendum #2	2025-09-11		1
Addendum #3	2025-09-18		2
Addendum #4	2025-09-22		3

Comm: 246040
Date: 08/28/2025
Drawn: T. Nguyen
Check: D. Kruth



SYSTEMS PLAN -
AREA 'A'

Scale: As indicated



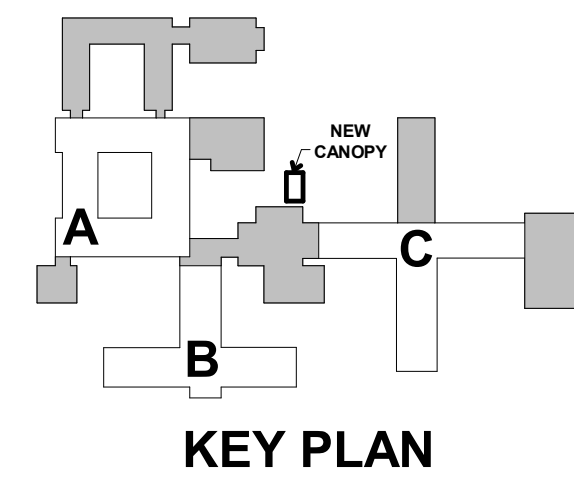
1 SYSTEMS PLAN - AREA A
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 - E. INSTALL DATA/SYSTEMS CONDUIT WITH NO MORE THAN (2) 90° BENDS BETWEEN PULL BOXES, AND NO MORE THAN 100'-0" BETWEEN PULL BOXES. PULL BOXES SHALL BE INSTALLED FOR STRAIGHT THRU PULLS ONLY.
 - F. ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CONDUIT, CABLE TRAY, OR SUPPORTED BY CABLE HOOKS. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUIT WHERE STUBBED ABOVE ACCESSIBLE CEILINGS OR WHERE DROPPED INTO CABLE TRAY. PROVIDE CABLE HOOKS ABOVE ACCESSIBLE CEILINGS FOR CABLE INSTALLATION WHERE NOT INSTALLED IN CONDUIT OR CABLE TRAY.
 - G. COORDINATE RECESSED CASEWORK DEVICES AND ABOVE COUNTER (AB) DEVICES WITH ARCHITECTURAL ELEVATION DRAWINGS AND DETAILS. MATCH ELEVATIONS WITH DIVISION 26 DEVICES UNLESS NOTED OTHERWISE.
 - H. REFER TO FLOORBOX AND POKE-THRU SCHEDULE FOR FULL REQUIREMENTS AT EACH LOCATION. COORDINATE LOCATIONS PRIOR TO ROUGH-IN AS REQUIRED.
 - I. PROVIDE ROUGH-IN FOR CARD READERS. (COORDINATE WITH OWNERS SECURITY CONTRACTOR.) REFER TO DETAILS IN E7 SERIES FOR ADDITIONAL INFORMATION.
 - J. PROVIDE ROUGH-IN AND DATA CABLEING FOR SECURITY CAMERA. LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD COORDINATED WITH OWNER FOR FINAL LOCATION. REFER TO DETAILS IN E7 SERIES FOR MORE INFORMATION. CAMERAS, MOUNTS, MOUNTING AND PROGRAMMING BY OWNER.
 - K. REFER TO SHEET E7.01 FOR ADDITIONAL INFORMATION REGARDING SLEEVES.
 - L. PROVIDE ROUGH-IN AND DATA CABLEING FOR VIDEO INTERCOM AND MASTER STATIONS AS IDENTIFIED ON OWNERS SECURITY CONTRACTOR.
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Comm: 246040
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North

SYSTEMS PLAN -
AREA 'C'

Scale: As indicated

E3.001c

1 SYSTEMS PLAN - AREA C
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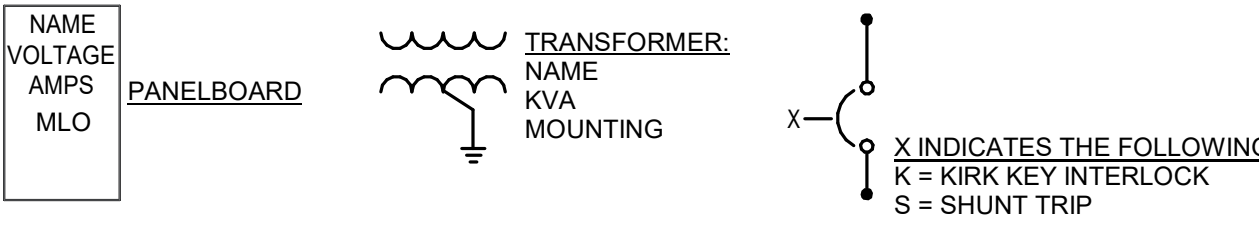
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RISER/ONLINE SYMBOLS:

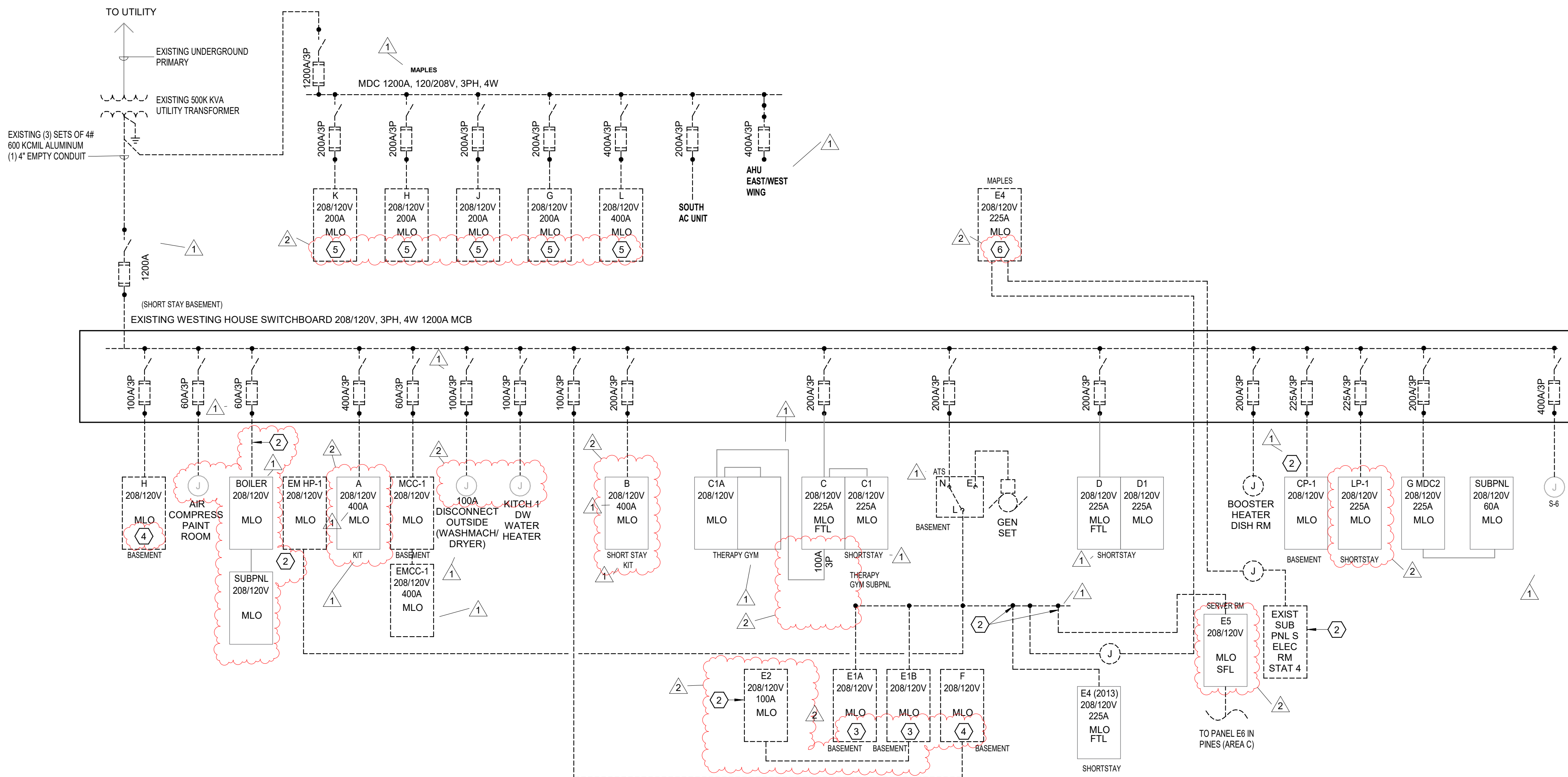
GENERAL NOTES:

- PROVIDE XHHW INSULATION FOR UNDERGROUND CONDUCTORS.
- PROVIDE COPPER CONDUCTORS.
- PROVIDE GALVANIZED RIGID STEEL CONDUIT FOR EXPOSED EXTERIOR CONDUITS.
- ROUTE HORIZONTAL CONDUITS ABOVE BOTTOM CHORD OF BAR JOISTS UNLESS NOTED OTHERWISE. ROUTE CONDUITS FROM WALL MOUNTED DEVICES VERTICALLY TO JOIST SPACE UNLESS NOTED OTHERWISE.
- OBTAIN SHOP DRAWINGS OF EQUIPMENT AND COMPARE CONNECTION, LOAD, AND VOLTAGE INFORMATION TO CONTRACT DOCUMENTS BEFORE INSTALLING FEEDER CONDUITS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE MAKING EQUIPMENT POWER CONNECTIONS. COMPARE EQUIPMENT NAMEPLATE DATA TO SHOP DRAWINGS AND CONTRACT DOCUMENTS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- MOTOR FEEDERS SHOWN ON DIAGRAM FOR REFERENCE. REFER TO MOTOR SCHEDULE FOR MORE INFORMATION.
- REFER TO SITE PLAN FOR EXACT LOCATIONS OF EXTERIOR EQUIPMENT.
- COORDINATE ALL DEMOLITION WITH PHASING PLANS. SEE ELECTRICAL FLOOR PLANS AND ARCHITECTURAL PHASING PLANS.
- SEE GROUNDING DETAIL ON E7 SHEETS.
- PROVIDE CONCRETE PAD FOR FLOOR-MOUNTED EQUIPMENT.
- REFER TO SITE PLAN FOR EXACT LOCATIONS OF EXTERIOR EQUIPMENT.
- SEE PANEL SCHEDULE FOR ADDITIONAL BREAKERS NOT INDICATED.

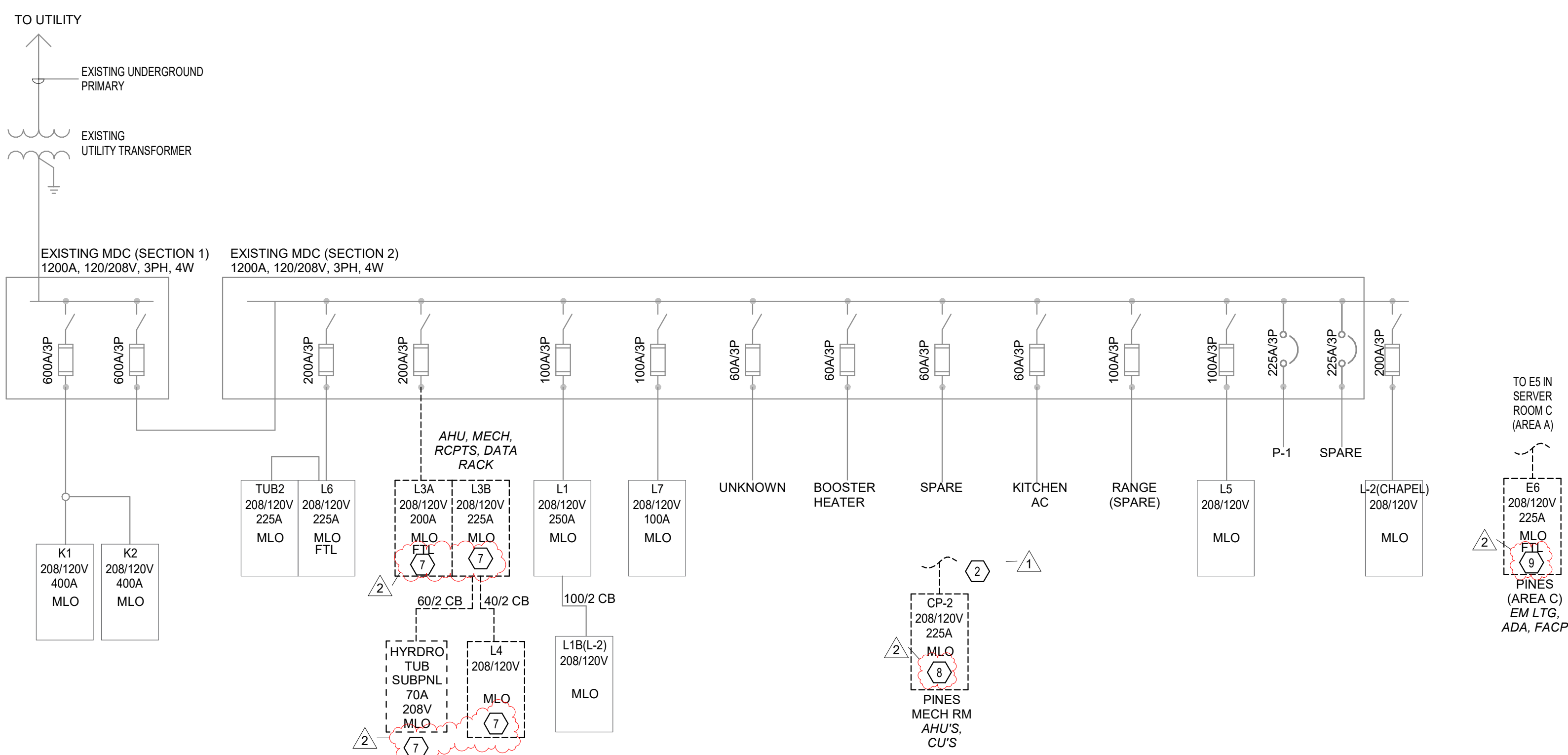


KEYED NOTES:

- REPLACE PANEL IN PLACE. CUT AND PATCH WALL AS REQUIRED. COORDINATE PATCHING WITH ARCHITECT.
- FIELD VERIFY SOURCE
- REFEED ALL EXISTING TO REMAIN CIRCUITS FROM NEW PANEL ELA01. SPLICE AND EXTEND AS REQUIRED. ASSUME CIRCUITRY MATCHES BREAKER SIZE. FIELD VERIFY EXACT QUANTITIES AND SIZES OF EXISTING BREAKERS.
- REFEED ALL EXISTING TO REMAIN CIRCUITS FROM NEW PANEL NLA01. SPLICE AND EXTEND AS REQUIRED. ASSUME CIRCUITRY MATCHES BREAKER SIZE. FIELD VERIFY EXACT QUANTITIES AND SIZES OF EXISTING BREAKERS.
- REFEED ALL EXISTING TO REMAIN CIRCUITS FROM NEW PANEL NLB12 EXCEPT FOR (2) RTU/AHU. FEED RTU FROM ELB11. SPLICE AND EXTEND ALL CIRCUITS AS REQUIRED. ASSUME CIRCUITRY MATCHES BREAKER SIZE. FIELD VERIFY EXACT QUANTITIES AND SIZES OF EXISTING BREAKERS.
- REFEED ALL EXISTING TO REMAIN CIRCUITS FROM NEW PANEL LLB11. SPLICE AND EXTEND ALL CIRCUITS AS REQUIRED. ASSUME CIRCUITRY MATCHES BREAKER SIZE. FIELD VERIFY EXACT QUANTITIES AND SIZES OF EXISTING BREAKERS.
- REFEED ALL EXISTING TO REMAIN CIRCUITS FROM NEW PANEL NLC11. SPLICE AND EXTEND ALL CIRCUITS AS REQUIRED. ASSUME CIRCUITRY MATCHES BREAKER SIZE. FIELD VERIFY EXACT QUANTITIES AND SIZES OF EXISTING BREAKERS.
- REFEED ALL EXISTING TO REMAIN CIRCUITS FROM NEW PANEL NLC12. SPLICE AND EXTEND ALL CIRCUITS AS REQUIRED. ASSUME CIRCUITRY MATCHES BREAKER SIZE. FIELD VERIFY EXACT QUANTITIES AND SIZES OF EXISTING BREAKERS.
- REFEED ALL EXISTING TO REMAIN CIRCUITS FROM NEW PANEL LLC11. SPLICE AND EXTEND ALL CIRCUITS AS REQUIRED. ASSUME CIRCUITRY MATCHES BREAKER SIZE. FIELD VERIFY EXACT QUANTITIES AND SIZES OF EXISTING BREAKERS.



1 EXISTING ADMIN/SHORT STAY/MAPLES ONLINE DIAGRAM (SERVICE #1 AND #2)
NTS

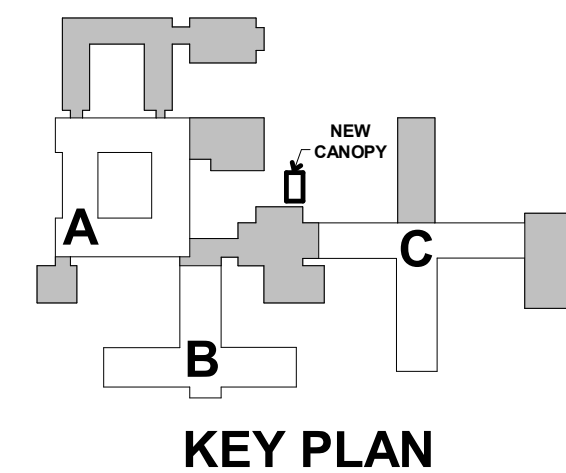


2 EXISTING PINES ONLINE DIAGRAM (SERVICE #3)
NTS

3 PHASE FEEDER SCHEDULE (COPPER)		
ID	FEEDER 3W	FEEDER 4W
	(NO NEUTRAL)	(WITH NEUTRAL)
(AMPS)	CONDUIT-PHASE-GROUND	CONDUIT-PHASE-GROUND
20A	(1) 1/2", 3#12+1#12G	(1) 1/2", 4#12+1#12G
30A	(1) 3/4", 3#10+1#10G	(1) 3/4", 4#10+1#10G
40A	(1) 3/4", 3#8+1#8G	(1) 3/4", 4#8+1#8G
50A	(1) 1", 3#6+1#6G	(1) 1", 4#6+1#6G
60A	(1) 1.25", 3#4+1#6G	(1) 1.25", 4#4+1#6G
80A	(1) 1.25", 3#3+1#6G	(1) 1.25", 4#3+1#6G
100A	(1) 1.5", 3#1+1#6G	(1) 1.5", 4#1+1#6G
125A	(1) 1.5", 3#1+1#6G	(1) 1.5", 4#1+1#6G
150A	(1) 1.5", 3#10+1#6G	(1) 1.5", 4#10+1#6G
175A	(1) 1.5", 3#20+1#6G	(1) 2", 4#20+1#6G
200A	(1) 2", 3#30+1#6G	(1) 2", 4#30+1#6G
225A	(1) 2", 3#40+1#4G	(1) 2.5", 4#40+1#4G
250A	(1) 2", 3#250+1#4G	(1) 2.5", 4#250+1#4G
300A	(1) 2.5", 3#350+1#4G	(1) 3", 4#350+1#4G
400A	(2) 2", 3#30+1#6G	(2) 2", 4#30+1#6G
500A	(2) 2", 3#250+1#2G	(2) 2.5", 4#250+1#2G
600A	(2) 2.5", 3#350+1#1G	(2) 3", 4#350+1#1G
800A	(3) 2.5", 3#300+1#10G	(3) 2.5", 4#300+1#10G
1000A	(3) 3", 3#400+1#20G	(3) 3", 4#400+1#20G
1200A	(4) 3", 3#350+1#30G	(4) 3", 4#350+1#30G
1800A	(5) 3", 3#400+1#40G	(5) 3", 4#400+1#40G
2000A	(6) 3", 3#400+1#250G	(6) 3", 4#400+1#250G
2300A	(7) 3", 3#500+1#350G	(7) 3", 4#500+1#350G
3000A	(8) 3", 3#500+1#400G	(8) 3", 4#500+1#400G

GENERAL NOTES:

- THE ABOVE FEEDER SCHEDULE IS A SCHEDULE OF TYPICAL FEEDERS AND SOME SIZES MAY NOT BE UTILIZED.
- CONDUCTOR AMPACITIES ARE BASED ON TABLE 310-15 OF THE NEC FOR COPPER CONDUCTOR AT 90 DEG C FOR 100A AND BELOW. AMPACITIES ARE BASED ON 75 DEG C FOR 125A AND ABOVE.
- FEEDER SIZES SHOWN ON THE RISER DIAGRAM INDICATE FEEDER AMPACITIES AND DO NOT NECESSARILY CORRESPOND TO CIRCUIT BREAKER AMPACITIES. CERTAIN FEEDERS MAY BE SIZED FOR THE DURATION FACTORS REQUIRED BY CODE AND/OR ARE OVERSIZED FOR VOLTAGE DROP.
- WHERE PARALLEL CONDUITS ARE INDICATED FOR A SINGLE FEEDER, EACH CONDUIT SHALL CONTAIN PHASE, NEUTRAL, AND GROUND CONDUCTORS INDICATED.
- CONDUIT ABOVE GRADE INDOORS SHALL BE EMT. CONDUIT ABOVE GRADE OUTDOORS SHALL BE GALVANIZED IMC OR RMC.
- EMT USED FOR PURPOSES OF SIZING CONDUIT. CONTRACTOR TO UPSIZE CONDUIT IF DIFFERENT THAN EMT.



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

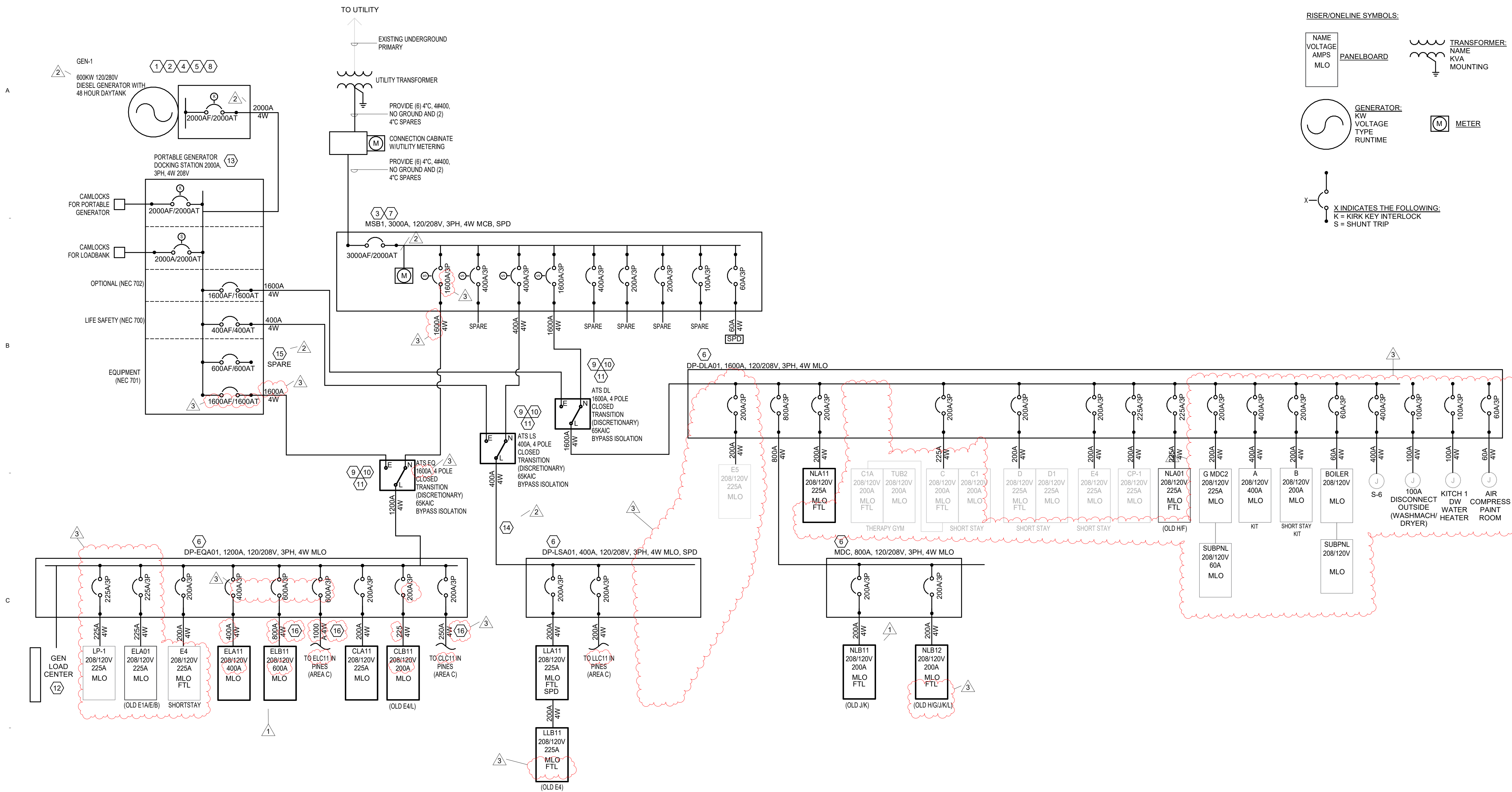
SITHA CHHUM
License Number: 54663 Date: 06/29/2025

Revisions		
Description	Date	Num
Addendum #3	2025-09-18	1
Addendum #4	2025-09-22	2

Comm: 246040
Date: 08/28/2025
Drawn: H. Nelson
Check: S. Chhum

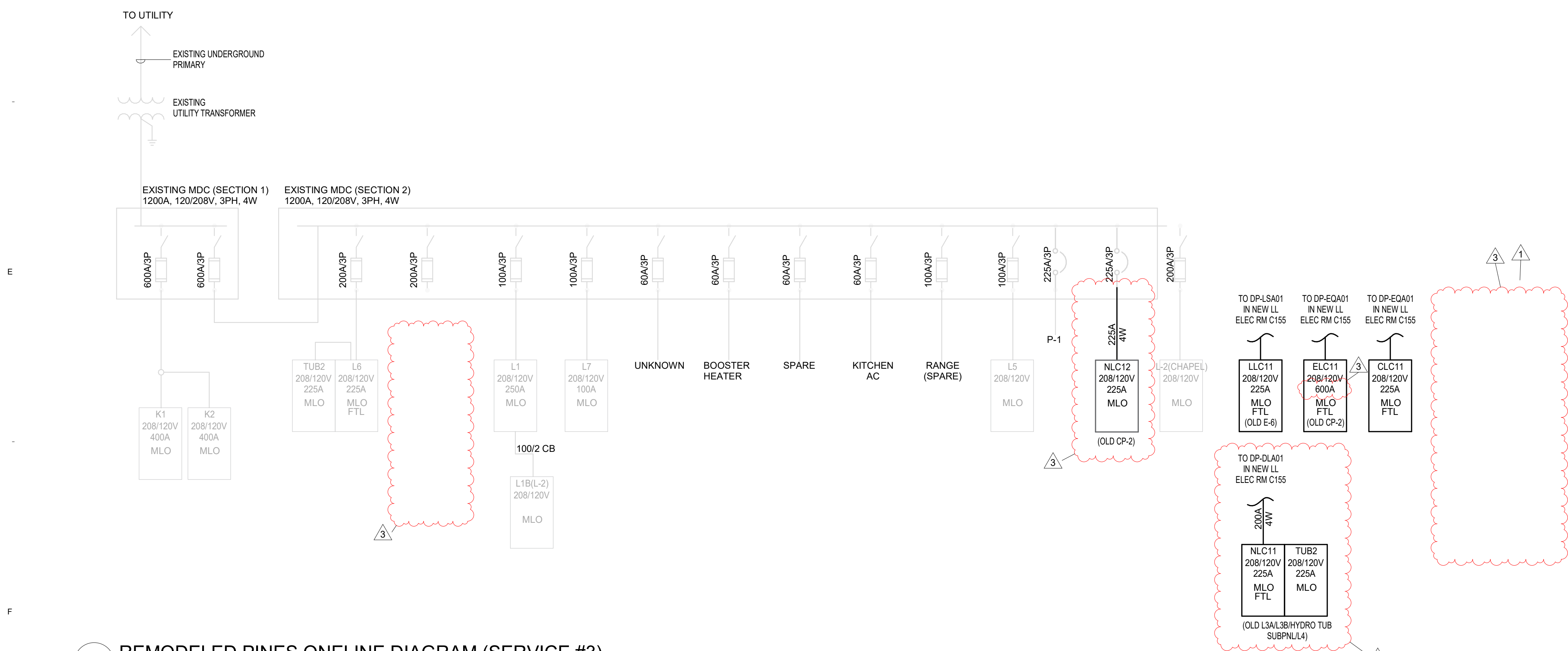
EXISTING
ONLINE
DIAGRAMS

Scale: As indicated



1 REMODELED ADMIN/SHORT STAY/MAPLES ONLINE DIAGRAM (SERVICE #1 AND #2)

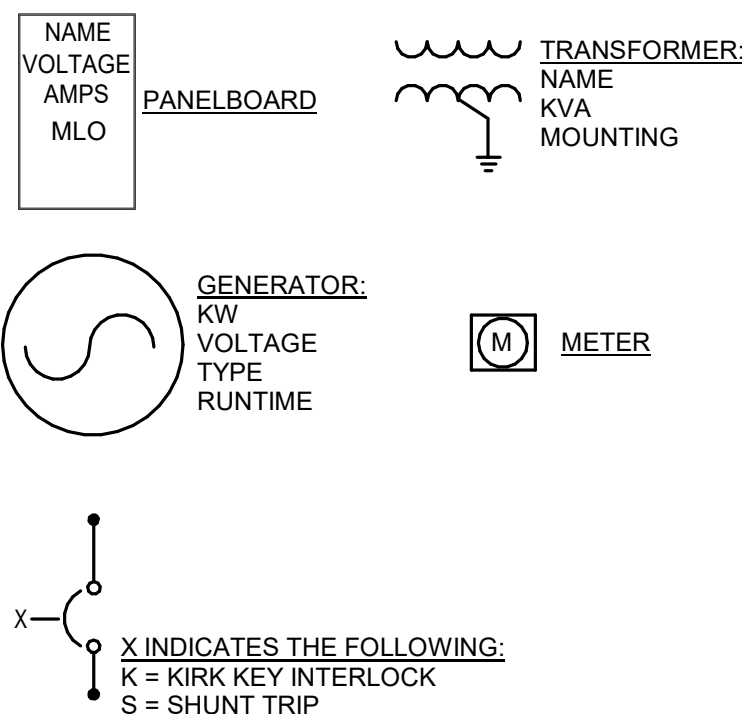
NTS



2 REMODELED PINES ONLINE DIAGRAM (SERVICE #3)

NTS

RISER/ONLINE SYMBOLS:



GENERAL NOTES:

- PROVIDE 3/4\"

KEYED NOTES:

- PROVIDE 1\"

3 PHASE FEEDER SCHEDULE (COPPER)		
	FEEDER 3W	FEEDER 4W
	(NO NEUTRAL)	(WITH NEUTRAL)
ID		
(AMPS)	CONDUIT-PHASE-GROUND	CONDUIT-PHASE-GROUND
20A	(1) 1/2\"	(1) 1/2\"
30A	(1) 3/4\"	(1) 3/4\"
40A	(1) 3/4\"	(1) 3/4\"
50A	(1) 1\"	(1) 1\"
60A	(1) 1.25\"	(1) 1.25\"
80A	(1) 1.25\"	(1) 1.25\"
100A	(1) 1.5\"	(1) 1.5\"
125A	(1) 1.5\"	(1) 1.5\"
150A	(1) 1.5\"	(1) 1.5\"
175A	(1) 1.5\"	(1) 2\"
200A	(1) 2\"	(1) 2\"
225A	(1) 2\"	(1) 2.5\"
250A	(1) 2\"	(1) 2.5\"
300A	(1) 2.5\"	(1) 3\"
400A	(2) 2\"	(2) 2\"
500A	(2) 2\"	(2) 2.5\"
600A	(2) 2.5\"	(2) 3\"
800A	(3) 2.5\"	(3) 2.5\"
1000A	(3) 3\"	(3) 3\"
1200A	(4) 3\"	(4) 3\"
1600A	(5) 3\"	(5) 3\"
2000A	(6) 3\"	(6) 3\"
2500A	(7) 3\"	(7) 3\"
3000A	(8) 3\"	(8) 3.5\"

GENERAL NOTES:

- THE ABOVE FEEDER SCHEDULE IS A SCHEDULE OF TYPICAL FEEDERS AND SOME SIZES MAY NOT BE UTILIZED.

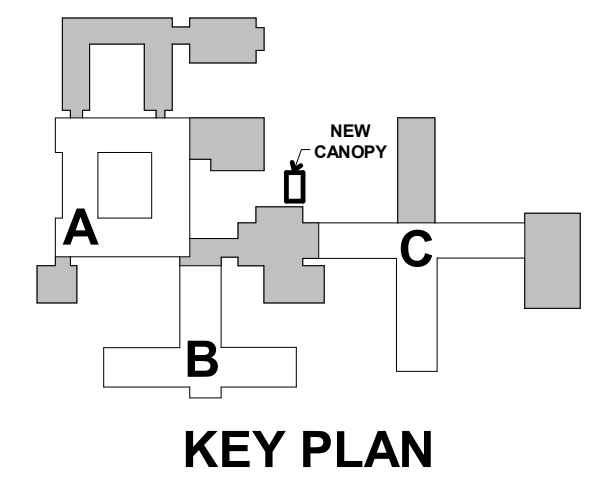
420 12th Ave E,
Alexandria, MN 56308

Vivie
2209 Jefferson St. Suite 201
Alexandria, MN 56308



WOLD ARCHITECTS
AND ENGINEERS

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woldae.com | 612 772 9025



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

SITHA CHHUM

License Number: 54683 Date: 06/29/2025

Description	Revisions	Date	Num
Addendum #2		2025-09-11	1
Addendum #3		2025-09-18	2
Addendum #4		2025-09-22	3

Comm: 246040
Date: 08/28/2025
Drawn: Author
Check: Checker

REMODELLED
ONLINE
DIAGRAMS

Scale: As indicated



WOLD ARCHITECTS
AND ENGINEERS

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Minneapolis, Minnesota 55402
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GENERAL SCHEDULE NOTES

- A. OBTAIN SHOP DRAWINGS OF EQUIPMENT AND COMPARE CONNECTION, LOAD, AND VOLTAGE INFORMATION TO CONTRACT DOCUMENTS BEFORE INSTALLING FEEDER CONDUITS. NOTIFY ARCHITECT OF ANY DISCREPANCIES. BEFORE MAKING EQUIPMENT POWER CONNECTIONS, COMPARE EQUIPMENT NAMEPLATE DATA TO SHOP DRAWINGS AND CONTRACT DOCUMENTS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
- B. PROVIDE RK1 FUSING FOR FUSIBLE DISCONNECTS SIZED AT 130% OF MOTOR FLC.
- C. SIZE OVERLOAD PROTECTION BASED ON ACTUAL NAMEPLATE DATA OF EQUIPMENT.
- D. MANUAL MOTOR STARTERS (MMS) TO BE SQUARE D FRACTIONAL HP MANUAL STARTERS WITH MELTING ALLOY TYPE THERMAL OVERLOAD OR APPROVED EQUAL. PROVIDE TOGGLE SWITCH WITH HANDLE GUARD AND RED PILOT LIGHT.
- E. WHEN STARTERS ARE PROVIDED BY ELEC PROVIDE A NON-REVERSING FVNR COMBINATION STARTER WITH FUSIBLE DISCONNECT UNLESS NOTED OTHERWISE. PROVIDE 120V CONTROL CIRCUIT WITH TRANSFORMER, (2) AUXILIARY CONTACTS, HOA SELECTOR SWITCH AND RED RUNNING PILOT LIGHT.

NUMBERED SCHEDULE NOTES

1. PROVIDE AN ADDITIONAL 120V/1P DEDICATED CIRCUIT FOR ENCLOSURE HEATER AND FANS.
2. SEE ELEVATOR DETAIL FOR ADDITIONAL REQUIREMENTS. ELEVATOR GROUND SHALL BE FULLY SIZED.
3. REFER TO HEAT PUMP DETAIL ON E7 SHEET SERIES.
4. PROVIDE SEPARATE 120V POWER FOR ENERGY RECOVERY WHEEL (ERW) AND LIGHTING. PROVIDE SEPARATE 208V/1PH POWER FOR LEV KIT(S).
5. PROVIDE CONNECTION FROM PANEL TO OUTDOOR (ROOF) MOTOR. PROVIDE CONNECTION TO INDOOR MOTOR FROM OUTDOOR MOTOR (3#12).
6. ROUTE FEEDER THROUGH VFD AND CONNECT TO MOTOR.

LOAD INFORMATION										MOTOR AND EQUIPMENT SCHEDULE																
MTR	DESCRIPTION	LOCATION	LOAD	UNIT	VOLTAGE/PHASE	CONDUIT			WIRE QUANTITY AND SIZE				WIRE TYPE	INSUL	STARTER				DISCONNECT				LOC	CTRL'S BY	NOTES	MTR
						SET(S)	SIZE	TYPE	P-H	PHASE	NEUT.	GND.			SUPPLIED	INSTALLED	TYPE/SIZE	SUPPLIED	INSTALLED	TYPE	SIZE					
DOAS-1	DEDICATED AIR SYSTEM	AREA A	5	HP	208/3	(1)	3/4"	EMT	2	10 AWG	-	10 AWG	CU THHN	MECH	ELEC	VFD	WALL	MECH	ELEC	VFD	-	WALL	MECH	6	DOAS-1	
DOAS-2	DEDICATED AIR SYSTEM	AREA B	7.5	HP	208/3	(1)	3/4"	EMT	2	10 AWG	-	10 AWG	CU THHN	MECH	ELEC	VFD	WALL	MECH	ELEC	VFD	-	WALL	MECH	6	DOAS-2	
DOAS-3	DEDICATED AIR SYSTEM	AREA C	7.5	HP	208/3	(1)	3/4"	EMT	2	10 AWG	-	10 AWG	CU THHN	MECH	ELEC	VFD	WALL	MECH	ELEC	VFD	-	WALL	MECH	6	DOAS-3	
ERV-1	ENERGY RECOVERY, DOAS-1	AREA A	3.75	HP	208/3	(1)	3/4"	EMT	2	10 AWG	-	10 AWG	CU THHN					MECH	ELEC	MMS	-	MTR	MECH		ERV-1	
ERV-2	ENERGY RECOVERY, DOAS-2	AREA B	4	HP	208/3	(1)	3/4"	EMT	2	10 AWG	-	10 AWG	CU THHN					MECH	ELEC	MMS	-	MTR	MECH		ERV-2	
ERV-3	ENERGY RECOVERY, DOAS-3	AREA C	4	HP	208/3	(1)	3/4"	EMT	2	10 AWG	-	10 AWG	CU THHN					MECH	ELEC	MMS	-	MTR	MECH		ERV-3	
CU-1	CONDENSING UNIT, DOAS-1	AREA A	41	MCA	208/3	(1)	3/4"	EMT	2	8 AWG	-	10 AWG	CU THHN	MECH	ELEC	VFD	WALL	MECH	ELEC	VFD	-	WALL	MECH		CU-1	
CU-2	CONDENSING UNIT, DOAS-2	AREA B	69	MCA	208/3	(1)	1"	EMT	2	4 AWG	-	8 AWG	CU THHN	MECH	ELEC	VFD	WALL	MECH	ELEC	VFD	-	WALL	MECH		CU-2	
CU-3	CONDENSING UNIT, DOAS-3	AREA C	65	MCA	208/3	(1)	1"	EMT	2	4 AWG	-	8 AWG	CU THHN	MECH	ELEC	VFD	WALL	MECH	ELEC	VFD	-	WALL	MECH		CU-3	
CUH-1	CABINET UNIT HEATER	O2 A105	FRAC	HP	120/1	(1)	3/4"	EMT	2	12 AWG	12 AWG	12 AWG	CU THHN					ELEC	ELEC	MMS	16A	MTR	MECH		CUH-1	
CUH-2	CABINET UNIT HEATER	VESTIBULE B157	FRAC	HP	120/1	(1)	3/4"	EMT	2	12 AWG	12 AWG	12 AWG	CU THHN					ELEC	ELEC	MMS	16A	MTR	MECH		CUH-2	
HP-1,2	HEAT PUMP	AREA A GRADE	56	MCA	208/3	(1)	1"	EMT	2	6 AWG	-	10 AWG	CU THHN					ELEC	ELEC	NFS	60A	MTR	MECH		HP-1,2	
HP-3,4,5,6	HEAT PUMP	AREA B GRADE	56	MCA	208/3	(1)	1"	EMT	2	6 AWG	-	10 AWG	CU THHN					ELEC	ELEC	NFS	60A	MTR	MECH		HP-3,4,5,6	
HP-7,8,9,10	HEAT PUMP	AREA C GRADE	56	MCA	208/3	(1)	1"	EMT	2	6 AWG	-	10 AWG	CU THHN					ELEC	ELEC	NFS	60A	MTR	MECH		HP-7,8,9,10	
BCU-1,2	BRANCH CONTROL UNIT	AREA A MECH	3.78	MCA	208/1	(1)	3/4"	EMT	2	12 AWG		12 AWG	CU THHN					ELEC	ELEC	MMS	16A	MTR	MECH		BCU-1,2	
BCU-3,4,5,6	BRANCH CONTROL UNIT	AREA B MECH	3.78	MCA	208/1	(1)	3/4"	EMT	2	12 AWG	-	12 AWG	CU THHN					ELEC	ELEC	MMS	16A	MTR	MECH		BCU-3,4,5,6	
BCU-7,8,9,10	BRANCH CONTROL UNIT	AREA C MECH	3.78	MCA	208/1	(1)	3/4"	EMT	2	12 AWG	-	12 AWG	CU THHN					ELEC	ELEC	MMS	16A	MTR	MECH		BCU-7,8,9,10	
FCU - A	FAN COIL UNITS	SEE PLANS	0.36-2.88	MCA	208/1	(1)	3/4"	EMT	2	12 AWG	-	12 AWG	CU THHN					ELEC	ELEC	MMS	16A	MTR	MECH		FCU - A	
FCU - B	FAN COIL UNITS	SEE PLANS	0.36-2.88	MCA	208/1	(1)	3/4"	EMT	2	12 AWG	-	12 AWG	CU THHN					ELEC	ELEC	MMS	16A	MTR	MECH		FCU - B	
FCU - C	FAN COIL UNITS	SEE PLANS	0.36-2.88	MCA	208/1	(1)	3/4"	EMT	2	12 AWG	-	12 AWG	CU THHN					ELEC	ELEC	MMS	16A	MTR	MECH		FCU - C	
EF-1	EXHAUST FAN	MECH A133A	.13	HP	120/1	(1)	3/4"	EMT	2	12 AWG	12 AWG	12 AWG	CU THHN	MECH	ELEC	VFD	MTR	MECH	ELEC	MMS	--	MTR	MECH		EF-1	
EF-2	EXHAUST FAN	SOLED UTIL A104	.14	HP	120/1	(1)	3/4"	EMT	2	12 AWG	12 AWG	12 AWG	CU THHN	MECH	ELEC	VFD	MTR	MECH	ELEC	MMS	--	MTR	MECH		EF-2	
TF-1	TRANSFER FAN	EX MECH RM	1/6	HP	120/1	(1)	3/4"	EMT	2	12 AWG	12 AWG	12 AWG	CU THHN	MECH	ELEC	VFD	MTR	MECH	ELEC	MMS	--	MTR	MECH		TF-1	
SS-1	SPLIT SYSTEM	DATA C118	16	MCA	208/1	(1)	3/4"	EMT	2	10 AWG	-	10 AWG	CU THHN					ELEC	ELEC	MMS	16A	MTR	MECH	5	SS-1	
SS-2	SPLIT SYSTEM	ELEC C119	16	MCA	208/1	(1)	3/4"	EMT	2	10 AWG	-	10 AWG	CU THHN					ELEC	ELEC	MMS	16A	MTR	MECH	5	SS-2	
HU-1	HUMIDIFIER, DOAS-1	AREA A	45	A	208/3	(1)	3/4"	EMT	2	8 AWG	-	10 AWG	CU THHN					ELEC	ELEC	NFS	60A	MTR	MECH		HU-1	
HU-2	HUMIDIFIER, DOAS-2	AREA B	90	A	208/3	(1)	1.5"	EMT	2	2 AWG	-	8 AWG	CU THHN					ELEC	ELEC	NFS	100A	MTR	MECH		HU-2	
HU-3	HUMIDIFIER, DOAS-3	AREA C	90	A	208/3	(1)	1.5"	EMT	2	2 AWG	-	8 AWG	CU THHN					ELEC	ELEC	NFS	100A	MTR	MECH		HU-3	

SHORT CIRCUIT STUDY

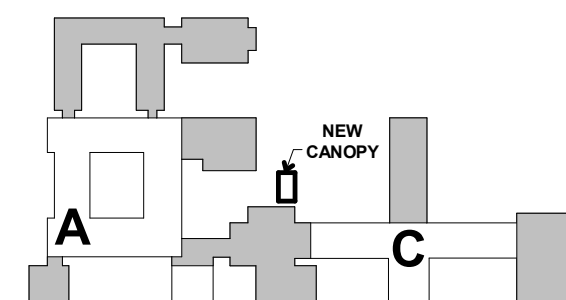
Bus Name	Bus Voltage	Isc 3P (A)	Isc SLG (A)	Available Fault Current	15% Safety Factor	Selection Current	Specified Fault Rating
ATS DL	208	56,278	49,134	56,278	8,442	64,720	65,000
ATS EQ	208	56,278	49,134	56,278	8,442	64,720	65,000
ATS LS	208	53,360	45,294	53,360	8,004	61,364	65,000
BUS-CLA11	208	6,555	5,078	6,555	983	7,538	10,000
BUS-CLB11	208	3,421	2,663	3,421	513	3,934	10,000
BUS-CLC11	208	2,196	1,713	2,196	329	2,525	10,000
BUS-DP-DLA01	208	54,782	47,465	54,782	8,217	62,999	65,000
BUS-DP-EQA01	208	53,358	45,904	53,358	8,004	61,362	65,000
BUS-DP-LSA01	208	28,656	22,240	28,656	4,298	32,955	42,000
BUS-ELA01	208	22,254	17,144	22,254	3,338	25,592	42,000
BUS-ELA11	208	12,054	9,285	12,054	1,808	13,862	22,000
BUS-ELB11	208	9,323	6,896	9,323	1,399	10,722	22,000
BUS-ELC11	208	6,520	4,796	6,520	978	7,498	10,000
BUS-GEN LOAD CENTER	208	12,210	9,592	12,210	1,832	14,042	22,000
BUS-GENERATOR DOCKING STATION	208	14,251	14,184	14,251	2,138	16,389	22,000
BUS-LLA11	208	5,793	4,496	5,793	869	6,662	10,000
BUS-LLB11	208	1,990	1,554	1,990	299	2,289	10,000
BUS-LLC11	208	2,145	1,675	2,145	322	2,467	10,000
BUS-MDC	208	12,924	9,728	12,924	1,939	14,862	22,000
BUS-NLA11	208	7,118	5,511	7,118	1,068	8,186	10,000
BUS-NLA12	208	26,678	20,648	26,678	4,002	30,679	42,000
BUS-NLB11	208	11,676	8,802	11,676	1,751	13,427	22,000
BUS-NLB12	208	11,676	8,802	11,676	1,751	13,427	22,000
BUS-NLC11	208	4,041	3,280	4,041	606	4,647	10,000
BUS-NLC12	208	4,041	3,280	4,041	606	4,647	10,000
MSB1	208	59,508	52,849	59,508	8,926	68,434	100,000
0	0	0	0	0	0	0	

NOTES:

1. N/A

CALCULATION ASSUMPTIONS:

- A. "Available Fault Current" is the larger of three-phase and line-to-ground faults.
- B. "Selection Current" is "Available Fault Current" multiplied by an arbitrary safety factor of 1.15.
- C. Utility short circuit data from Utility provider is assumed at 78200A @208V for Short Stay (new) and 26000A @208V for Pines.
- D. All motors rated under 5HP are ignored.
- E. Panels/transformers/motors located in the same room are assumed to have a feeder length connecting them of five feet (5'-0").
- F. Feeder lengths for equipment are measured per plans along probable routes.
- G. Existing panels and motors not included.



KEY PLAN

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

SITHA CHHUM
License Number: 54663 Date: 06/29/2025

Revisions		Num
Description	Date	
Addendum #3	2025-09-18	1
Addendum #4	2025-09-22	2

Comm: 246040
Date: 08/28/2025
Drawn: H. Nelson
Check: S. Chhum

MOTOR
SCHEDULE

Scale: As indicated

Load Types: COOL - Summer Cooling, ELEV- Elevator, EQ - Equipment, EX -Existing, GND - Grounding, HEAT - Winter Heating, KTCH- Kitchen, L MTR - Largest Motor, LTG -Lighting, MTR - Motor, RCPT - Receptacle

NOTES:

Load Types: COOL - Summer Cooling, ELEV- Elevator, EQ - Equipment, EX -Existing, GND - Grounding, HEAT - Winter Heating
KTCH- Kitchen, L MTR - Largest Motor, LTG -Lighting, MTR - Motor, RCPT - Receptacle

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NOTES:

MN

Nelson Care Center
Renovation

420 12th Ave E,
Alexandria, MN 56308

Vivie
2209 Jefferson St. Suite 201
Alexandria, MN 56308



WOLD ARCHITECTS
AND ENGINEERS

50 South 6th Street, Suite 2250
Minneapolis, Minnesota 55402
wolda.com | 612 772 9025

PANELBOARD: ELA11														
LOCATION: MECH A123 MOUNTING: SURFACE MAINS TYPE: MAINS AMPS: BUS AMPS: FED FROM: DP-EQA01							VOLTAGE: 208Y/120 V 3 ø 4 W. A.F.C.... SEE SHORT CIRCUIT STUDY SPECIAL:							
3														
#	BT	LOAD DESCRIPTION	LT	BKR	P	A	B	C	P	BKR	LT	LOAD DESCRIPTION	BT	#
1	--	FCU 1-01, 02, 03, 04, 05	MTR	15 A	2	1.2	1.2			2	15 A	MTR	FCU 1-11, 12, 13, 14, 15	2
3	--	--	--	--	--		1.2	1.2		--	--	--	--	4
5	FCU	1-06, 07, 08, 09, 10	MTR	15 A	2			1.2	1.2	2	15 A	MTR	FCU 1-16, 17, 18, 19, 20	6
7	--	--	--	--	--	1.2	1.2			--	--	--	--	8
9	BCU	-1, 2	MTR	20 A	2		0.6	0.1		1	20 A	MTR	CUH-1	10
11	--	--	--	--	--			0.6	0.1	1	20 A	MTR	MTR	12
13	HP	-2	MTR	60 A	3	5.4	5.4			3	60 A	MTR	HP-1	14
15	--	--	--	--	--		5.4	5.4		--	--	--	--	16
17	--	--	--	--	--			5.4	5.4	--	--	--	--	18
19	ERV	-1	MTR	20 A	3	1.0	8.7			3	100 A	MTR	HU-1 MTR	20
21	--	--	--	--	--			1.0	8.7	--	--	--	--	22
23	--	--	--	--	--					1.0	8.7	--	--	24
25	DOAS	-1	MTR	20 A	3	1.2				1	20 A	--	SPARE	26
27	--	--	--	--	--		1.2	0.0		1	20 A	--	SPARE	28
29	--	--	--	--	--			1.2	0.0	1	20 A	--	SPARE	30
31	CU	-1	MTR	50 A	3	3.9	0.0			2	40 A	--	SPARE	32
33	--	--	--	--	--		3.9	0.0		--	--	--	--	34
35	--	--	--	--	--			3.9	0.0	1	20 A	--	SPARE	36
37	SPARE	--	20 A	2	0.0	0.0				2	20 A	--	SPARE	38
39	--	--	--	--	--			0.0	0.0	--	--	--	--	40
41	SPARE	--	20 A	2				0.0	0.0	2	20 A	--	SPARE	42
43	--	--	--	--	--		0.0	0.0		--	--	--	--	44
45	SPARE	--	20 A	2			0.0	0.0		2	20 A	--	SPARE	46
47	--	--	--	--	--			0.0	0.0	--	--	--	--	48
49	SPARE	--	40 A	2	0.0	0.0				1	20 A	--	SPARE	50
51	--	--	--	--	--			0.0	0.0	1	20 A	--	SPARE	52
53	SPARE	--	20 A	1				0.0	0.0	1	20 A	--	SPARE	54
TOTAL LOAD:					30 kVA	29 kVA	29 kVA							
TOTAL AMPS:					253 A	240 A	240 A							
LOAD CLASSIFICATION			CONNECTED	DEMAND	ESTIMATED		PANEL TOTALS							
MTR			87867 VA	107.40%	94367 VA		CONNECTED LOAD: 87867 VA ESTIMATED DEMAND: 94367 VA CONNECTED CURRENT: 244 A EST. DEMAND CURRENT: 262 A							
Load Types (LT): COOL - Summer Cooling, ELEV- Elevator, EQ - Equipment, EX -Existing, GND - Grounding, HEAT - Winter Heating, KTCH- Kitchen, L MTR - Largest Motor, LTG -Lighting, MTR - Motor, RCPT - Receptacle Breaker Types (BT): AF = Arc Fault, GF = Ground Fault Circuit Interrupt, GE = Ground Fault Equipment Protection (30mA), SH = Shunt Trip, EX = Existing, NX = New Breaker For Existing Panel, M = Metered														
NOTES:														

PANELBOARD: CLA11														
LOCATION: MECH A123 MOUNTING: SURFACE MAINS TYPE: MAINS AMPS: BUS AMPS: FED FROM: DP-EQA01								VOLTAGE: 208Y/120 V, 3 ø 4 W. A.F.C.... SEE SHORT CIRCUIT STUDY SPECIAL:						
#	BT	LOAD DESCRIPTION	LT	BKR	P	A	B	C	P	BKR	LT	LOAD DESCRIPTION	BT	
1		A104, A105, A110-A117,....	LTG	20 A	1	1.2	0.2			1	20 A	RCPT	AREA A NC REPEATER...	
3		AREA A RES RM NL LTG	LTG	20 A	1		0.1	0.2		1	20 A	RCPT	AREA A LIFT RCPT	
5		AREA A NC SIGNS RCPT	RCPT	20 A	1			0.5	1.1	1	20 A	RCPT	A111 RCPT	
7		A112 RCPT	RCPT	20 A	1	0.7	1.1			1	20 A	RCPT	A116, A117 RCPT	
9		A114, A115 RCPT	RCPT	20 A	1		1.4	0.4		1	20 A	RCPT	A116 MED REF RCPT	
11		A117 RCPT	RCPT	20 A	1			1.4	0.2	1	20 A	RCPT	AREA A NC WG RCPT	
13		A124 DATA RCPT	RCPT	20 A	1	0.4	1.1			1	20 A	RCPT	RES RM A107 RCPT	
15		RES RM A101 RCPT	RCPT	20 A	1		1.1	1.1		1	20 A	RCPT	RES RM A108 RCPT	
17		RES RM A102 RCPT	RCPT	20 A	1			1.1	1.1	1	20 A	RCPT	RES RM A119 RCPT	
19		RES RM A120 RCPT	RCPT	20 A	1	1.1	1.1			1	20 A	RCPT	RES RM A127 RCPT	
21		RES RM A125 RCPT	RCPT	20 A	1		0.0	1.1		1	20 A	RCPT	RES RM A128RCPT	
23		RES RM A126RCPT	RCPT	20 A	1			1.1	1.1	1	20 A	RCPT	RES RM A129 RCPT	
25		RES RM A130 RCPT	RCPT	20 A	1	1.1	0.0			1	20 A	--	SPARE	
27		SPARE	--	20 A	1		0.0	0.0		1	20 A	--	SPARE	
29		SPARE	--	20 A	1			0.0	0.0	1	20 A	--	SPARE	
31		SPARE	--	20 A	1	0.0	0.0			1	20 A	--	SPARE	
33		SPARE	--	20 A	1		0.0	0.0		1	20 A	--	SPARE	
35		SPARE	--	20 A	1			0.0	0.0	1	20 A	--	SPARE	
37		SPARE	--	20 A	1	0.0	0.0			1	20 A	--	SPARE	
39		SPARE	--	20 A	1		0.0	0.0		1	20 A	--	SPARE	
41		SPARE	--	20 A	1			0.0	0.0	1	20 A	--	SPARE	
43		SPARE	--	20 A	1	0.0	0.0			1	20 A	--	SPARE	
45		SPARE	--	20 A	1		0.0	0.0		1	20 A	--	SPARE	
47		SPARE	--	20 A	1			0.0	0.0	1	20 A	--	SPARE	
49		SPARE	--	20 A	1	0.0	0.0			1	20 A	--	SPARE	
51		SPARE	--	15 A	1		0.0	0.0		1	15 A	--	SPARE	
53		SPARE	--	15 A	1		0.0	0.0	1	15 A	--	SPARE		
TOTAL LOAD:						8 kVA	5 kVA	8 kVA						
TOTAL AMPS:						66 A	45 A	67 A						
LOAD CLASSIFICATION			CONNECTED		DEMAND		ESTIMATED		PANEL TOTALS					
LTG			1309 VA		125.00%		1636 VA							
RCPT			19640 VA		75.46%		14820 VA		CONNECTED LOAD: 20890 VA					
									ESTIMATED DEMAND: 16385 VA					
									CONNECTED CURRENT: 58 A					
									EST. DEMAND CURRENT: 45 A					
Load Types (LT): COOL - Summer Cooling, ELEV- Elevator, EQ - Equipment, EX -Existing, GND - Grounding, HEAT - Winter Heating, KTCH- Kitchen, L MTR - Largest Motor, LTG -Lighting, MTR - Motor, RCPT - Receptacle														
Breaker Types (BT): AF = Arc Fault, GF = Ground Fault Circuit Interrupt, GE = Ground Fault Equipment Protection (30mA), SH = Shunt Trip, EX = Existing, NX = New Breaker For Existing Panel, M = Metered														
NOTES:														

PANELBOARD: ELB11															
LOCATION: ELEC B132 MOUNTING: SURFACE MAINS TYPE: MAINS AMPS: BUS AMPS: FED FROM: DP-EQA01										VOLTAGE: 208Y/120 V, 3 ø 4 W. A.F.C.... SEE SHORT CIRCUIT STUDY SPECIAL:					
#	BT	LOAD DESCRIPTION	LT	BKR	P	A	B	C	P	BKR	LT	LOAD DESCRIPTION	BT	#	
1	FCU	2-01, 02, 03, 04, 05	MTR	15 A	2	1.2	1.2			2	15 A	MTR	FCU 2-11, 12, 13, 14, 15	2	
3	--	--	--	--	--			1.2	1.2	--	--	--	--	4	
5	FCU	2-06, 07, 08, 09, 10	MTR	15 A	2			1.2	1.2	2	15 A	MTR	FCU 2-16, 17, 18, 19, 20	6	
7	--	--	--	--	--			1.2	1.2	--	--	--	--	8	
9	FCU	2-21, 22, 23, 24, 25	MTR	15 A	2			1.2	1.2	2	15 A	MTR	FCU 2-26, 27, 28, 29, 30	10	
11	--	--	--	--	--					1.2	1.2	--	--	12	
13	FCU	2-31, 32, 33, 34, 35	MTR	15 A	2	1.2	1.2			2	15 A	MTR	FCU 2-41, 42, 43, 44, 45	14	
15	--	--	--	--	--			1.2	1.2	--	--	--	--	16	
17	FCU	2-36, 37, 38, 39, 40	MTR	15 A	2			1.2	0.5	2	15 A	MTR	FCU 2-46, 47	18	
19	--	--	--	--	--			1.2	0.5	--	--	--	--	20	
21	BC	-3, 4, 5, 6	MTR	20 A	2			1.3	5.4	3	60 A	MTR	HP-3	22	
23	--	--	--	--	--					1.3	5.4	--	--	24	
25	HP	-4	MTR	60 A	3	5.4	5.4			--	--	--	--	26	
27	--	--	--	--	--			5.4	5.4	3	60 A	MTR	HP-5	28	
29	--	--	--	--	--					5.4	5.4	--	--	30	
31	HP	-6	MTR	60 A	3	5.4	5.4			--	--	--	--	32	
33	--	--	--	--	--			5.4	6.6	3	70 A	MTR	CU-2	34	
35	--	--	--	--	--					5.4	6.6	--	--	36	
37	CUH-2		MTR	20 A	1	0.1	6.6			--	--	--	--	38	
39	DOAS-2		MTR	30 A	3			1.9	1.0	3	20 A	MTR	ERV-2	40	
41	--	--	--	--	--					1.9	1.0	--	--	42	
43	--	--	--	--	--			1.9	1.0	--	--	--	--	44	
45	SPARE		--	20 A	2		0.0	0.0		2	20 A	--	SPARE	46	
47	--	--	--	--	--				0.0	0.0	--	--	--	48	
49	HUJ-2 MTR		MTR	100 A	3	8.7	0.0			2	40 A	--	SPARE	50	
51	--	--	--	--	--			8.7	0.0	--	--	--	--	52	
53	--	--	--	--	--					8.7	0.0	1	20 A	--	54
55	EXISTING RTU		--	60 A	3	0.0	0.0			3	40 A	--	EXISTING AHU	56	
57	--	--	--	--	--			0.0	0.0	--	--	--	--	58	
59	--	--	--	--	--					0.0	0.0	--	--	60	
61	SPARE		--	20 A	1	0.0	0.0			1	20 A	--	SPARE	62	
63	SPARE		--	20 A	1		0.0	0.0		1	20 A	--	SPARE	64	
65	SPARE		--	20 A	1			0.0	0.0	1	20 A	--	SPARE	66	
67	SPARE		--	20 A	1	0.0	0.0			1	20 A	--	SPARE	68	
69	SPARE		--	20 A	1		0.0	0.0		1	20 A	--	SPARE	70	
71	SPARE		--	20 A	1			0.0	0.0	1	20 A	--	SPARE	72	
TOTAL LOAD:						49 kVA	48 kVA	47 kVA							
TOTAL AMPS:						406 A	402 A	395 A							
LOAD CLASSIFICATION			CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS									
MTR			144143 VA	104.51%	150643 VA										
CONNECTED LOAD: 144143 VA															
ESTIMATED DEMAND: 150643 VA															
CONNECTED CURRENT: 400 A															
EST. DEMAND CURRENT: 418 A															
Load Types (LT): COOL - Summer Cooling, ELEV- Elevator, EQ - Equipment, EX -Existing, GND - Grounding, HEAT - Winter Heating, KTGH- Kitchen, L MTR - Largest Motor, LTG -Lighting, MTR - Motor, RCP1 - Recopitace															
Breaker Types (BT): AF = Arc Fault, GF = Ground Fault Circuit Interrupt, GE = Ground Fault Equipment Protection (30mA), SH = Shunt Trip, EX = Existing, NX = New Breaker For Existing Panel, M = Metered															
NOTES:															

MN

Nelson Care Center
Renovation

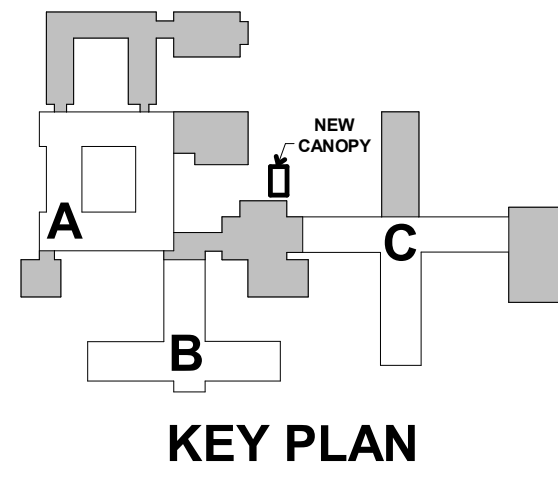
420 12th Ave E,
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AND ENGINEERS

50 South 6th Street, Suite 2250
Minneapolis, Minnesota 55402
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I hereby certify that this plan, specification or report was prepared by
me or under my direct supervision and that I am a duly Licensed
PROFESSIONAL ENGINEER
under the laws of the State of **MINNESOTA**

SITHA CHHUM
License Number: **54863** Date: **06/29/2025**

Description	Revisions	
	Date	Num
Addendum #2	2025-09-11	1
Addendum #4	2025-09-22	2

Comm: **246040**
Date: **08/23/2025**
Drawn: **H. Nelson**
Check: **S. Chhum**

PANEL
SCHEDULES

Scale:

E6.12

PANELBOARD: LLA11

LOCATION: MECH A123
MOUNTING: SURFACE
MAINS TYPE:
MAINS AMPS:
BUS AMPS:
FED FROM: DP-LSA01

VOLTAGE: 208Y/120 V, 3 ø 4 W.
A.F.C.... SEE SHORT CIRCUIT STUDY
SPECIAL: SPD

#	BT	LOAD DESCRIPTION	LT	BKR	P	A	B	C	P	BKR	LT	LOAD DESCRIPTION	BT	#
1		A134 ADO MTR	MTR	20 A	1	0.5	0.6			1	20 A	LTG	AREA A EGRESS LTG	2
3		AREA A ADD ALT ADO	MTR	20 A	1		1.0	0.0		1	20 A	--	SPARE	4
5		SPARE	--	20 A	1			0.0	0.0	1	20 A	--	SPARE	6
7		SPARE	--	20 A	1	0.0	0.0			1	20 A	--	SPARE	8
9		SPARE	--	20 A	1		0.0	0.0		1	20 A	--	SPARE	10
11		SPARE	--	20 A	1			0.0	0.0	1	20 A	--	SPARE	12
13		SPARE	--	20 A	1	0.0	0.0			1	20 A	--	SPARE	14
15		SPARE	--	20 A	1			0.0	0.0	1	20 A	--	SPARE	16
17		SPARE	--	20 A	1			0.0	0.0	1	20 A	--	SPARE	18
19		SPARE	--	20 A	1	0.0	0.0			1	20 A	--	SPARE	20
21		SPARE	--	20 A	1		0.0	0.0		1	20 A	--	SPARE	22
23		SPARE	--	20 A	1			0.0	0.0	1	20 A	--	SPARE	24
25		SPARE	--	20 A	1	0.0	0.0			1	20 A	--	SPARE	26
27		SPARE	--	20 A	1		0.0	0.0		1	20 A	--	SPARE	28
29		SPARE	--	20 A	1			0.0	0.0	1	20 A	--	SPARE	30
				TOTAL LOAD:		2 kVA	2 kVA	1 kVA						
				TOTAL AMPS:		18 A	17 A	8 A						

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS
LTG	1488 VA	125.00%	1880 VA	CONNECTED LOAD: 4815 VA
MTR	3360 VA	103.57%	3480 VA	ESTIMATED DEMAND: 5301 VA
				CONNECTED CURRENT: 13 A
				EST. DEMAND CURRENT: 15 A

Load Types (LT): COOL - Summer Cooling, ELEV- Elevator, EQ - Equipment, EX -Existing, GND - Grounding, HEAT - Winter Heating, KTCH- Kitchen, L MTR - Largest Motor, LTG -Lighting, MTR - Motor, RCPT - Receptacle
Breaker Types (BT): AF = Arc Fault, GF = Ground Fault Circuit Interrupt, GE = Ground Fault Equipment Protection (30mA), SH = Shunt Trip, EX = Existing, NX = New Breaker For Existing Panel, M = Metered

NOTES:

PANELBOARD: LLB11

LOCATION: ELEC B132
MOUNTING: SURFACE
MAINS TYPE:
MAINS AMPS:
BUS AMPS:
FED FROM: LLA11

VOLTAGE: 208Y/120 V, 3 ø 4 W.
A.F.C.... SEE SHORT CIRCUIT STUDY
SPECIAL: SPD

#	BT	LOAD DESCRIPTION	LT	BKR	P	A	B	C	P	BKR	LT	LOAD DESCRIPTION	BT	#
1		AREA B EGRESS LTG	LTG	20 A	1	0.7	0.2			1	20 A	LTG	EXTERIOR CANOPY LTG	2
3		B157, B157A ADO MTR	MTR	20 A	1		1.0	0.0		2	20 A	--	EXISTING	4
5		B100, B100A ADO MTR	MTR	20 A	1			1.0	0.0	--	--	--	--	6
7		EXISTING	--	20 A	1	0.0	0.0			1	20 A	--	EXISTING	8
9		EXISTING	--	20 A	1		0.0	0.0		1	20 A	--	EXISTING	10
11		SPARE	--	20 A	1			0.0	0.0	--	--	SPARE	--	12
13		SPARE	--	20 A	1	0.0	0.0			1	20 A	--	SPARE	14
15		SPARE	--	20 A	1		0.0	0.0		1	20 A	--	SPARE	16
17		SPARE	--	20 A	1			0.0	0.0	1	20 A	--	SPARE	18
19		SPARE	--	20 A	1	0.0	0.0			1	20 A	--	SPARE	20
21		SPARE	--	20 A	1		0.0	0.0		1	20 A	--	SPARE	22
23		SPARE	--	20 A	1			0.0	0.0	1	20 A	--	SPARE	24
25		SPARE	--	20 A	1	0.0	0.0			1	20 A	--	SPARE	26
27		SPARE	--	20 A	1		0.0	0.0		1	20 A	--	SPARE	28
29		SPARE	--	20 A	1			0.0	0.0	1	20 A	--	SPARE	30
TOTAL LOAD:						1 kVA	1 kVA	1 kVA						
TOTAL AMPS:						8 A	8 A	8 A						

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS
LTG	911 VA	125.00%	1139 VA	CONNECTED LOAD: 2808 VA
MTR	1920 VA	106.25%	2040 VA	ESTIMATED DEMAND: 3151 VA
				CONNECTED CURRENT: 8 A
				EST. DEMAND CURRENT: 9 A

Load Types (LT): COOL - Summer Cooling, ELEV- Elevator, EQ - Equipment, EX -Existing, GND - Grounding, HEAT - Winter Heating, KTCH- Kitchen, L MTR - Largest Motor, LTG -Lighting, MTR - Motor, RCPT - Receptacle
Breaker Types (BT): AF = Arc Fault, GF = Ground Fault Circuit Interrupt, GE = Ground Fault Equipment Protection (30mA), SH = Shunt Trip, EX = Existing, NX = New Breaker For Existing Panel, M = Metered

NOTES:

PANELBOARD: LLC11

LOCATION: ELEC C119
MOUNTING: SURFACE
MAINS TYPE:
MAINS AMPS:
BUS AMPS:
FED FROM: DP-LSA01

VOLTAGE: 208Y/120 V, 3 ø 4 W.
A.F.C.... SEE SHORT CIRCUIT STUDY
SPECIAL: SPD

#	BT	LOAD DESCRIPTION	LT	BKR	P	A	B	C	P	BKR	LT	LOAD DESCRIPTION	BT	#
1		AREA C EGRESS LTG	LTG	20 A	1	0.7	0.5			1	20 A	MTR	C141 ADO MTR	2
3		EXISTING	--	20 A	2		0.0	0.0		1	20 A	--	EXISTING	4
5		--	--	--	--			0.0	0.0	1	20 A	--	EXISTING	6
7		EXISTING	--	20 A	1	0.0	0.0			1	20 A	--	EXISTING	8
9		EXISTING	--	20 A	1		0.0	0.0		1	20 A	--	EXISTING	10
11		EXISTING	--	20 A	1			0.0	0.0	1	20 A	--	EXISTING	12
13		EXISTING	--	20 A	1	0.0	0.0			1	20 A	--	EXISTING	14
15		EXISTING	--	20 A	1		0.0	0.0		1	20 A	--	EXISTING	16
17		SPARE	--	20 A	1			0.0	0.0	1	20 A	--	SPARE	18
19		SPARE	--	20 A	1	0.0	0.0			1	20 A	--	SPARE	20
21		SPARE	--	20 A	1		0.0	0.0		1	20 A	--	SPARE	22
23		SPARE	--	20 A	1			0.0	0.0	1	20 A	--	SPARE	24
25		SPARE	--	20 A	1	0.0	0.0			1	20 A	--	SPARE	26
27		SPARE	--	20 A	1		0.0	0.0		1	20 A	--	SPARE	28
29		SPARE	--	20 A	1			0.0	0.0	1	20 A	--	SPARE	30
TOTAL LOAD:						1 kVA	0 kVA	0 kVA						
TOTAL AMPS:						10 A	0 A	0 A						

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS
LTG	747 VA	125.00%	934 VA	CONNECTED LOAD: 1224 VA
MTR	480 VA	125.00%	600 VA	ESTIMATED DEMAND: 1530 VA
				CONNECTED CURRENT: 3 A
				EST. DEMAND CURRENT: 4 A

Load Types (LT): COOL - Summer Cooling, ELEV- Elevator, EQ - Equipment, EX -Existing, GND - Grounding, HEAT - Winter Heating, KTCH- Kitchen, L MTR - Largest Motor, LTG -Lighting, MTR - Motor, RCPT - Receptacle
Breaker Types (BT): AF = Arc Fault, GF = Ground Fault Circuit Interrupt, GE = Ground Fault Equipment Protection (30mA), SH = Shunt Trip, EX = Existing, NX = New Breaker For Existing Panel, M = Metered

NOTES:

PANELBOARD: ELA01

LOCATION: MECHANICAL EXIST
MOUNTING: SURFACE
MAINS TYPE:
MAINS AMPS:
BUS AMPS:
FED FROM: DP-EQA01

VOLTAGE: 208Y/120 V, 3 ø 4 W.
A.F.C.... SEE SHORT CIRCUIT STUDY
SPECIAL:

#	BT	LOAD DESCRIPTION	LT	BKR	P	A	B	C	P	BKR	LT	LOAD DESCRIPTION	BT	#
1		EXISTING	--	20 A	1		0.0	0.0		1	20 A	--	EXISTING	4
3		EXISTING	--	20 A	1			0.0	0.0	1	20 A	--	EXISTING	6
5		EXISTING	--	20 A	1	0.0	0.0			1	20 A	--	EXISTING	8
7		EXISTING	--	20 A	1		0.0	0.0		1	20 A	--	EXISTING	10
9		EXISTING	--	20 A	1			0.0	0.0	1	20 A	--	EXISTING	12
11		EXISTING	--	20 A	1			0.0	0.0	1	20 A	--	EXISTING	14
13		EXISTING	--	20 A	1	0.0	0.0			1	20 A	--	EXISTING	16
15		EXISTING	--	15 A	1		0.0	0.0		1	15 A	--	EXISTING	18
17		EXISTING	--	15 A	1			0.0	0.0	1	15 A	--	EXISTING	20
19		EXISTING	--	15 A	1	0.0	0.0			3	20 A	--	EXISTING	22
21		EXISTING	--	20 A	3		0.0	0.0		--	--	--	--	24
23		--	--	--	--			0.0	0.0	--	--	--	--	26
25		--	--	--	--	0.0	0.0			3	20 A	--	EXISTING	28
27		EXISTING	--	20 A	3		0.0	0.0		--	--	--	--	30
29		--	--	--	--			0.0	0.0	--	--	--	--	32
31		--	--	--	--	0.0	0.0			3	20 A	--	EXISTING	34
33		EXISTING	--	30 A	2		0.0	0.0		--	--	--	--	36
35		--	--	--	--			0.0	0.0	--	--	--	--	38
37		EXISTING	--	60 A	3	0.0	0.0			3	50 A	--	EXISTING	40
39		--	--	--	--		0.0	0.0		--	--	--	--	42
41		--	--	--	--			0.0	0.0	--	--	--	--	44
43		EXISTING	--	60 A	3	0.0	0.0			3	60 A	--	EXISTING	46
45		--	--	--	--		0.0	0.0		--	--	--	--	48
47		--	--	--	--			0.0	0.0	--	--	--	--	50
49		SPARE	--	20 A	1	0.0	0.0			1	20 A	--	SPARE	52
51		SPARE	--	20 A	1		0.0	0.0		1	20 A	--	SPARE	54
53		SPARE	--	20 A	1			0.0	0.0	1	20 A	--	SPARE	56
TOTAL LOAD:						0 kVA	0 kVA	0 kVA						
TOTAL AMPS:						0 A	0 A	0 A						

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS
				CONNECTED LOAD: 0 VA
				ESTIMATED DEMAND: 0 VA
				CONNECTED CURRENT: 0 A
				EST. DEMAND CURRENT: 0 A

Load Types (LT): COOL - Summer Cooling, ELEV- Elevator, EQ - Equipment, EX -Existing, GND - Grounding, HEAT - Winter Heating, KTCH- Kitchen, L MTR - Largest Motor, LTG -Lighting, MTR - Motor, RCPT - Receptacle
Breaker Types (BT): AF = Arc Fault, GF = Ground Fault Circuit Interrupt, GE = Ground Fault Equipment Protection (30mA), SH = Shunt Trip, EX = Existing, NX = New Breaker For Existing Panel, M = Metered

NOTES:

PANELBOARD: NLC12

LOCATION: ELEC C119
MOUNTING: SURFACE
MAINS TYPE:
MAINS AMPS:
BUS AMPS:
FED FROM:

VOLTAGE: 208Y/120 V, 3 ø 4 W.
A.F.C.... SEE SHORT CIRCUIT STUDY
S

E

KEY PLAN

E6.13