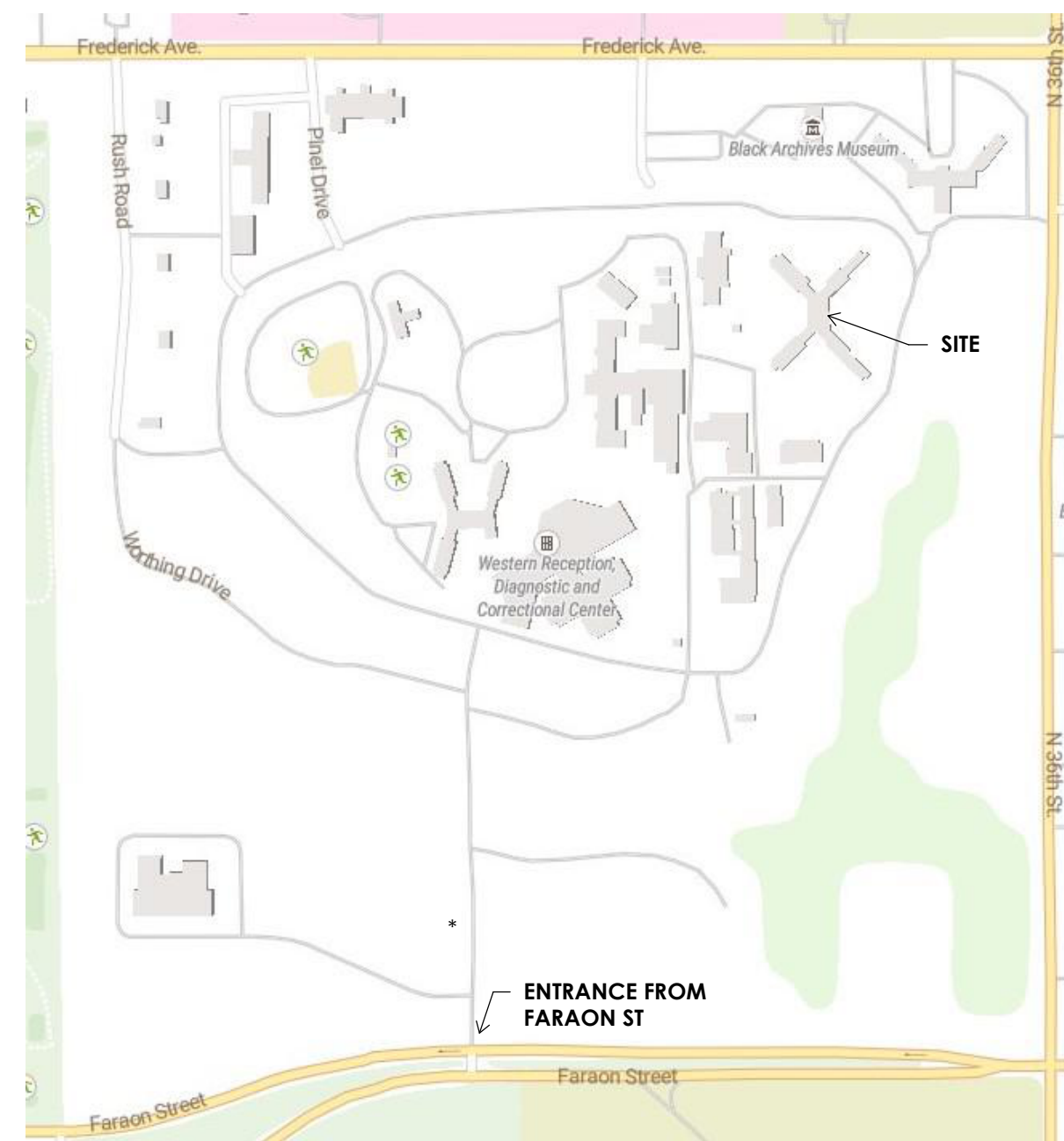


# WESTERN RECEPTION, DIAGNOSTIC AND CORRECTIONAL CENTER ELEVATOR REPLACEMENT BID DOCUMENTS 1-11-2023 St. Joseph, Missouri

**Location Map:**  
CITY OF ST. JOSEPH, MISSOURI  
N.T.S.



**OWNER:** STATE OF MISSOURI,  
MIKE PARSONS  
GOVERNOR

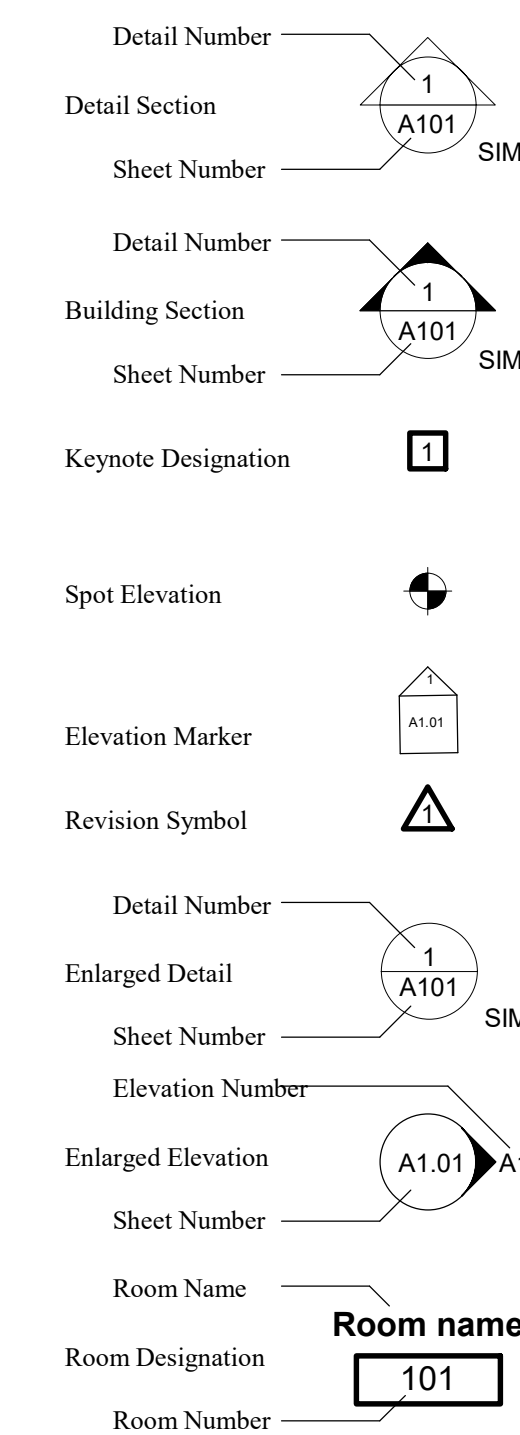
**PROJECT MANAGEMENT:** OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

**DESIGNER:** WSKF ARCHITECTS

**PROJECT NUMBER:** C2224-01

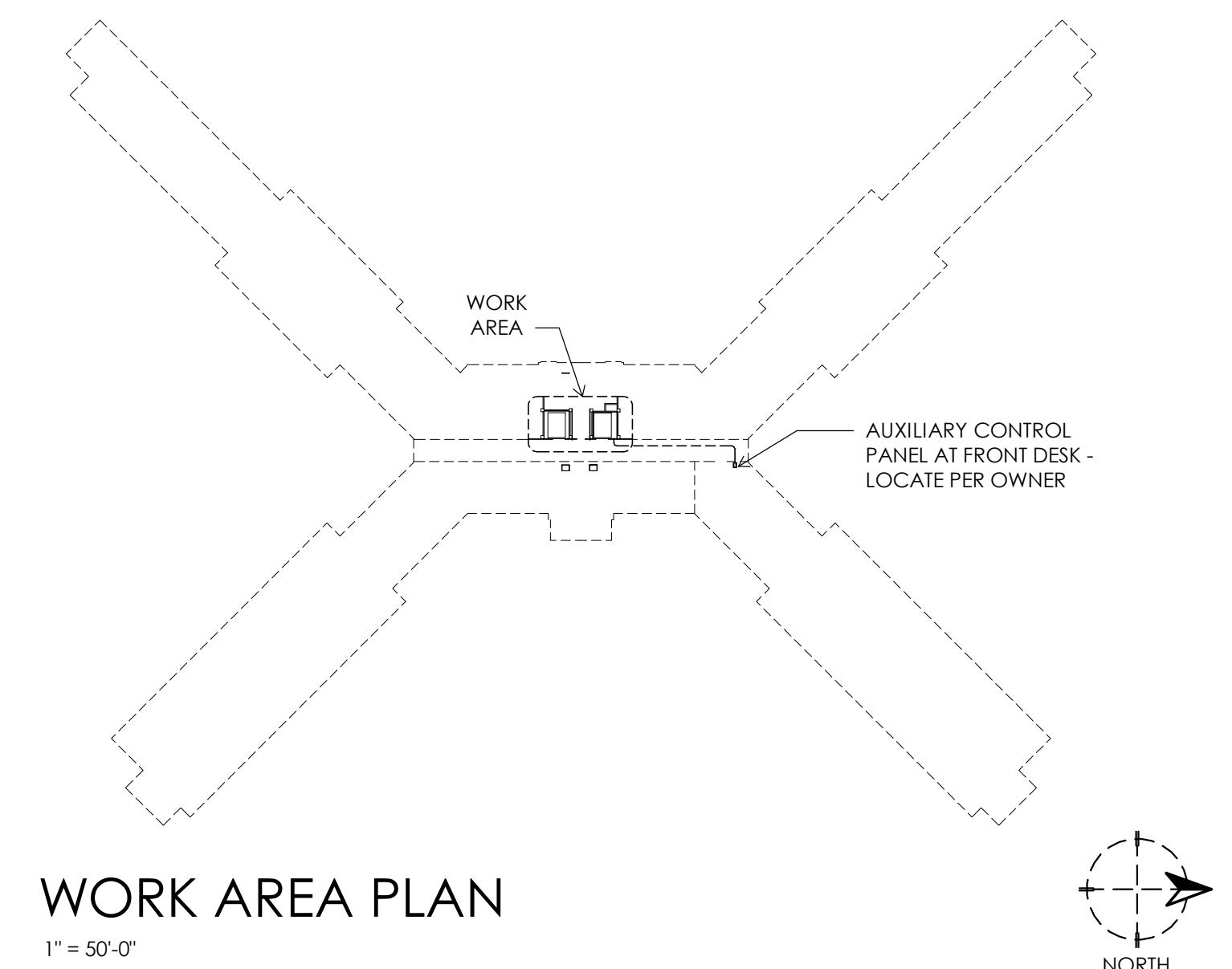
**SITE NUMBER:** #7012  
**FACILITY NUMBER:** #9327012035

**Symbols:**



**Drawing Index**

- 0 - GENERAL
- G1.00 COVER
- 1 - ARCHITECTURE
- A1.01 DIMENSION PLAN
- A3.01 BUILDING SECTIONS AND ELEVATIONS
- A4.01 ELEVATOR CAB PLANS
- 2 - MECHANICAL, PLUMBING & ELECTRICAL
- ME.00 MECHANICAL/ELECTRICAL GENERAL NOTES & SYMBOLS
- ME.01 MEP - SCHEDULES AND DETAILS
- M1.01 MECHANICAL/PLUMBING - FLOOR PLANS
- E0.01 ELECTRICAL - DEMOLITION FLOOR PLAN
- E1.01 ELECTRICAL - FLOOR PLAN



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**MEP Engineer:**  
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**Consulting:**  
VDA Elevator  
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State of Missouri  
Office of Administration  
Division of Facilities  
Management  
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WESTERN RECEPTION,  
DIAGNOSTIC AND  
CORRECTIONAL CENTER  
ST. JOSEPH, MO

STATE #: C2224-01  
SITE #: 7012  
FACILITY #: 9327012035

| REVISION: | DATE: |
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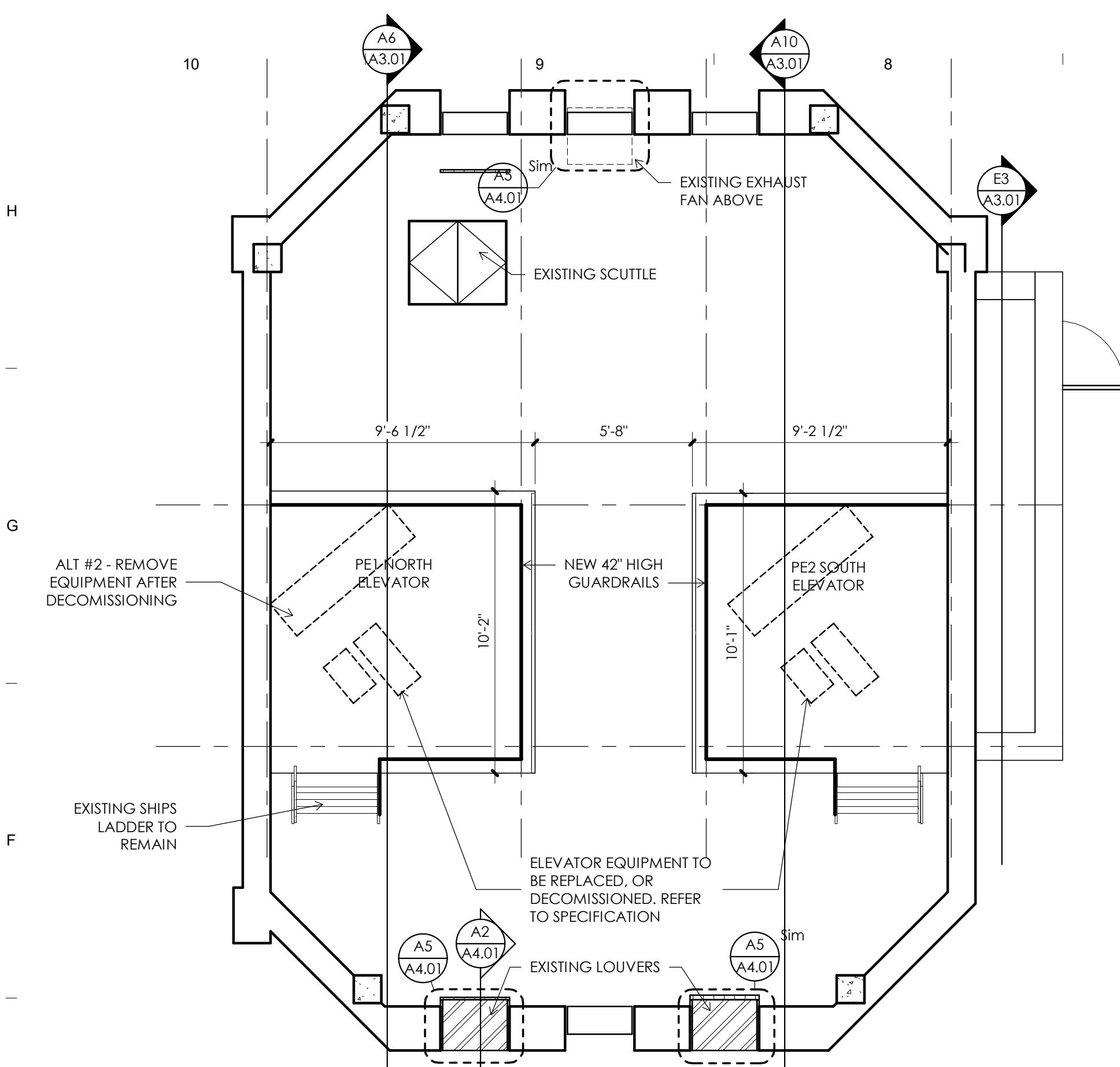
CAD DWG FILE:  
DRAWN BY: Carlos Baez  
CHECKED BY: Chris O'Connor  
DESIGNED BY: John Freshnock

SHEET TITLE:  
DIMENSION PLAN

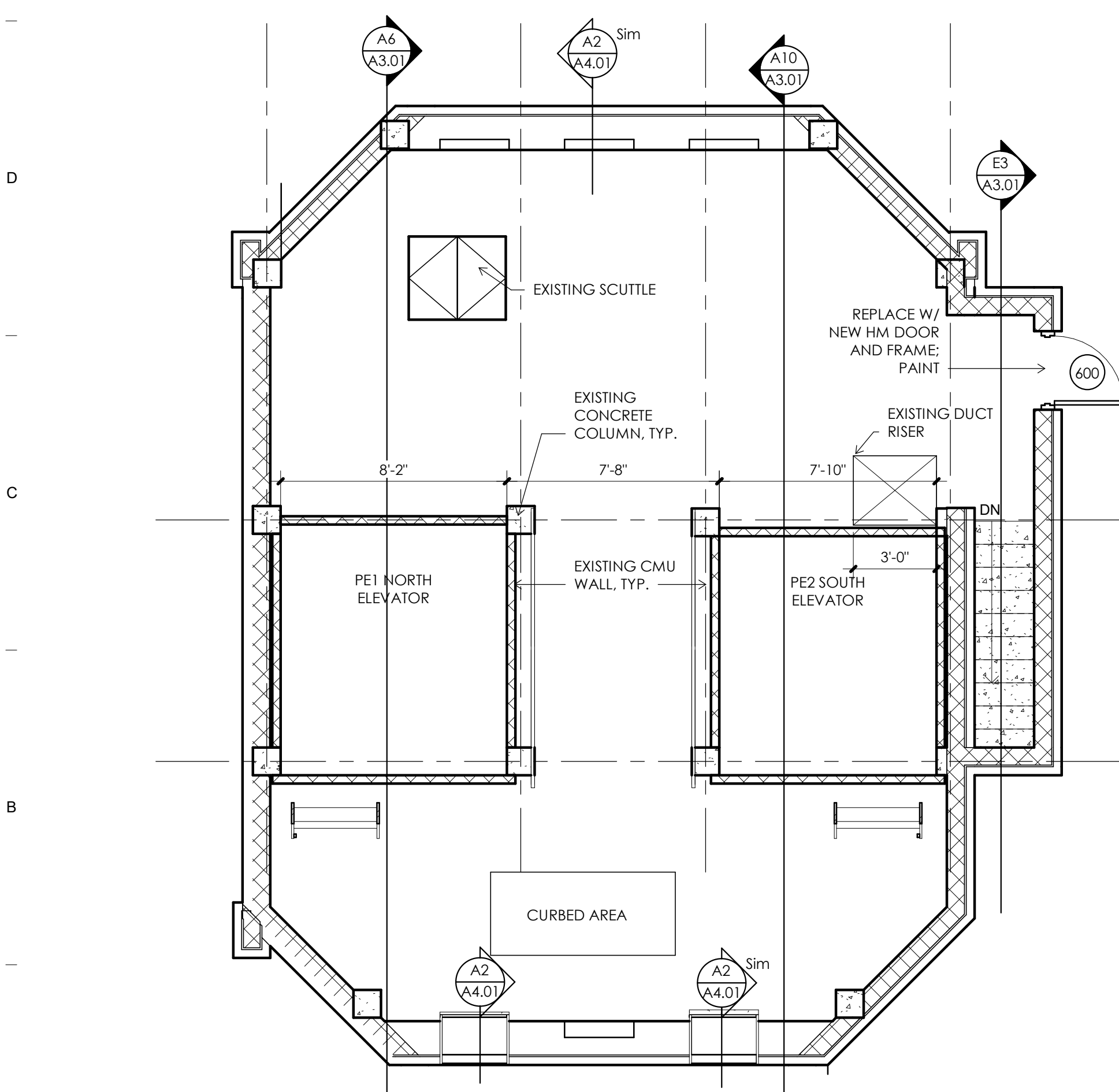
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**A1.01**

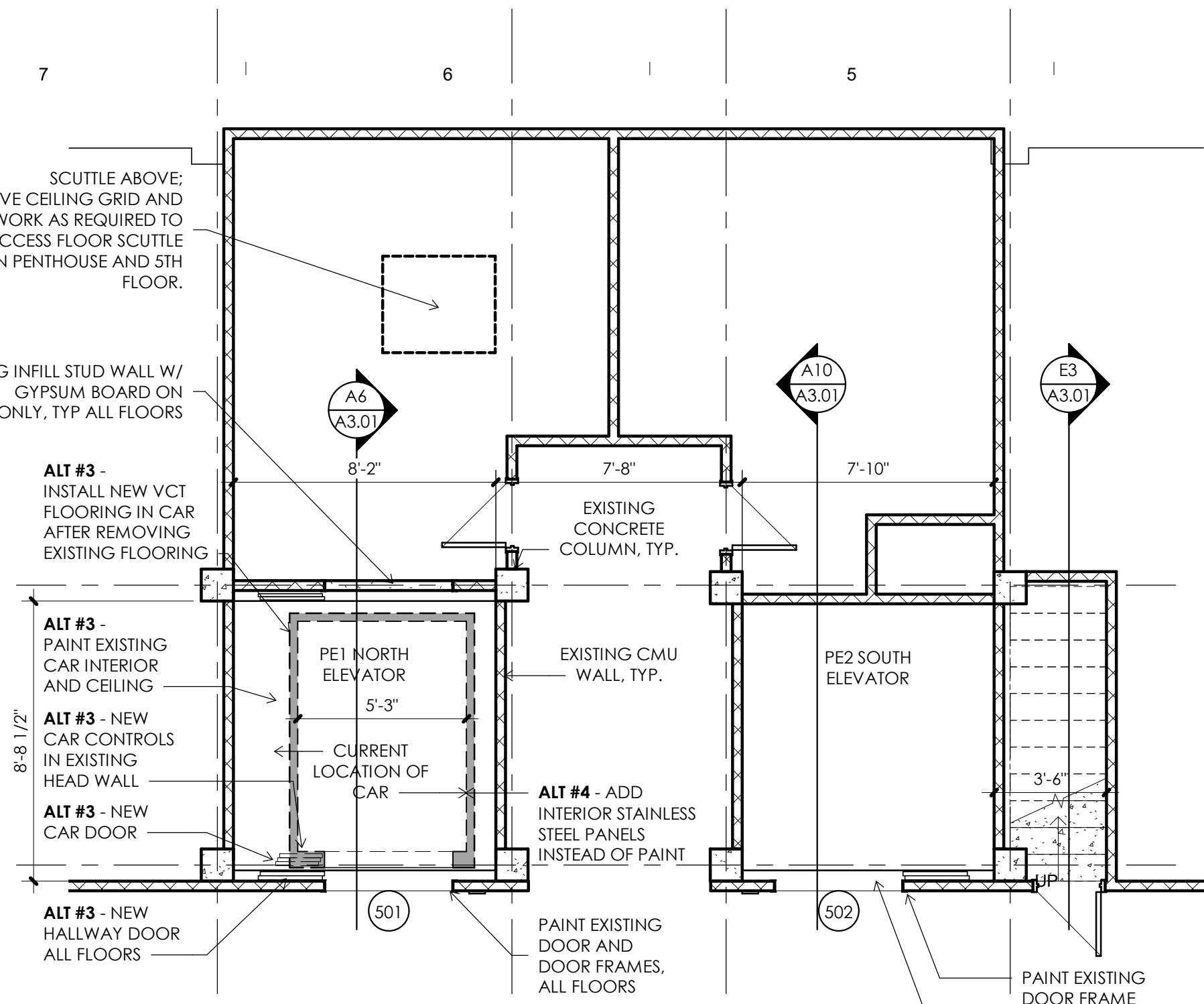
SHEET 2 OF 9  
ISSUE DATE: 1/11/23



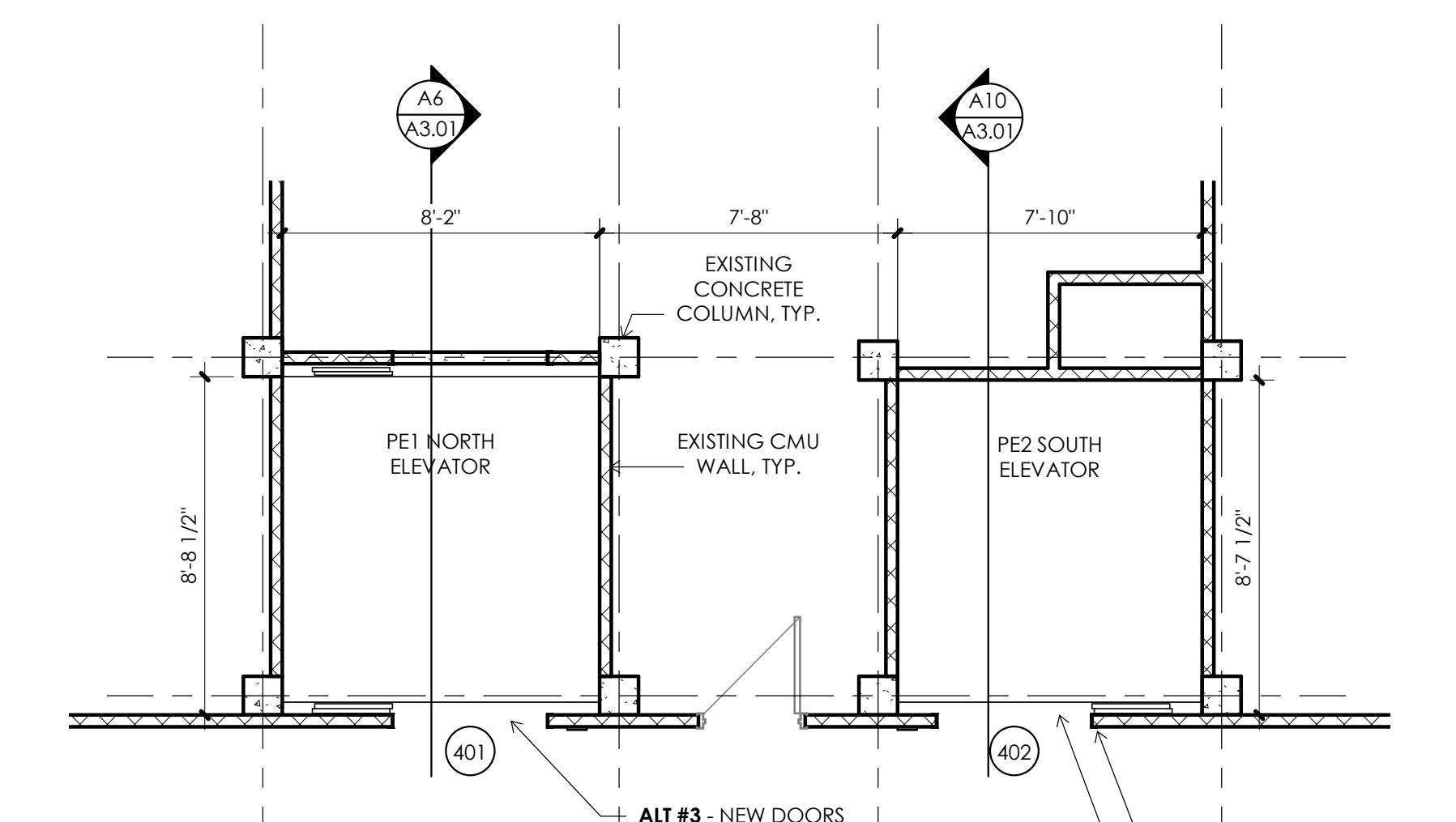
**E10**  
FLOOR PLAN - TOP OF  
ELEVATOR  
1/4" = 1'-0"



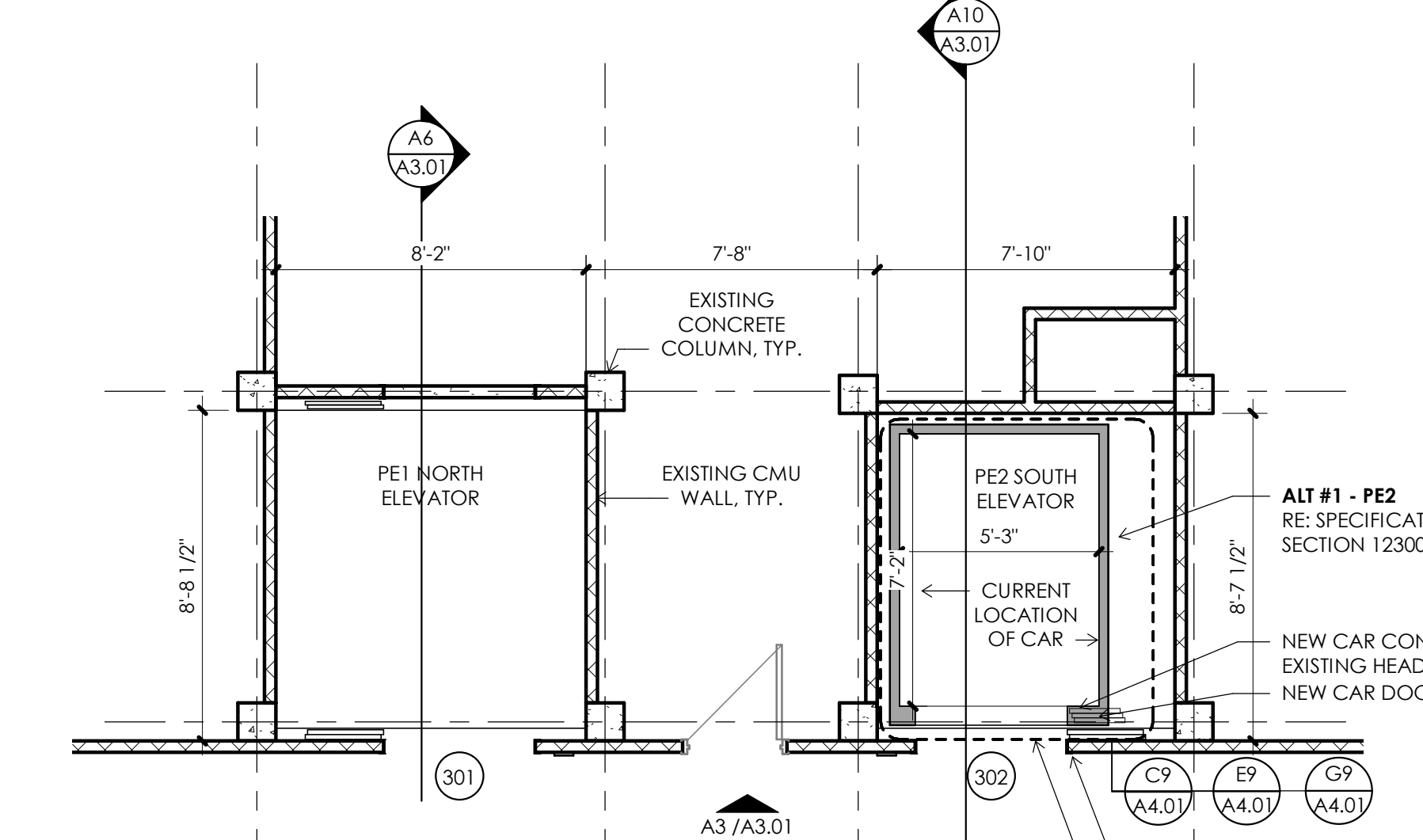
**A10**  
FLOOR PLAN - PENT  
HOUSE  
1/4" = 1'-0"



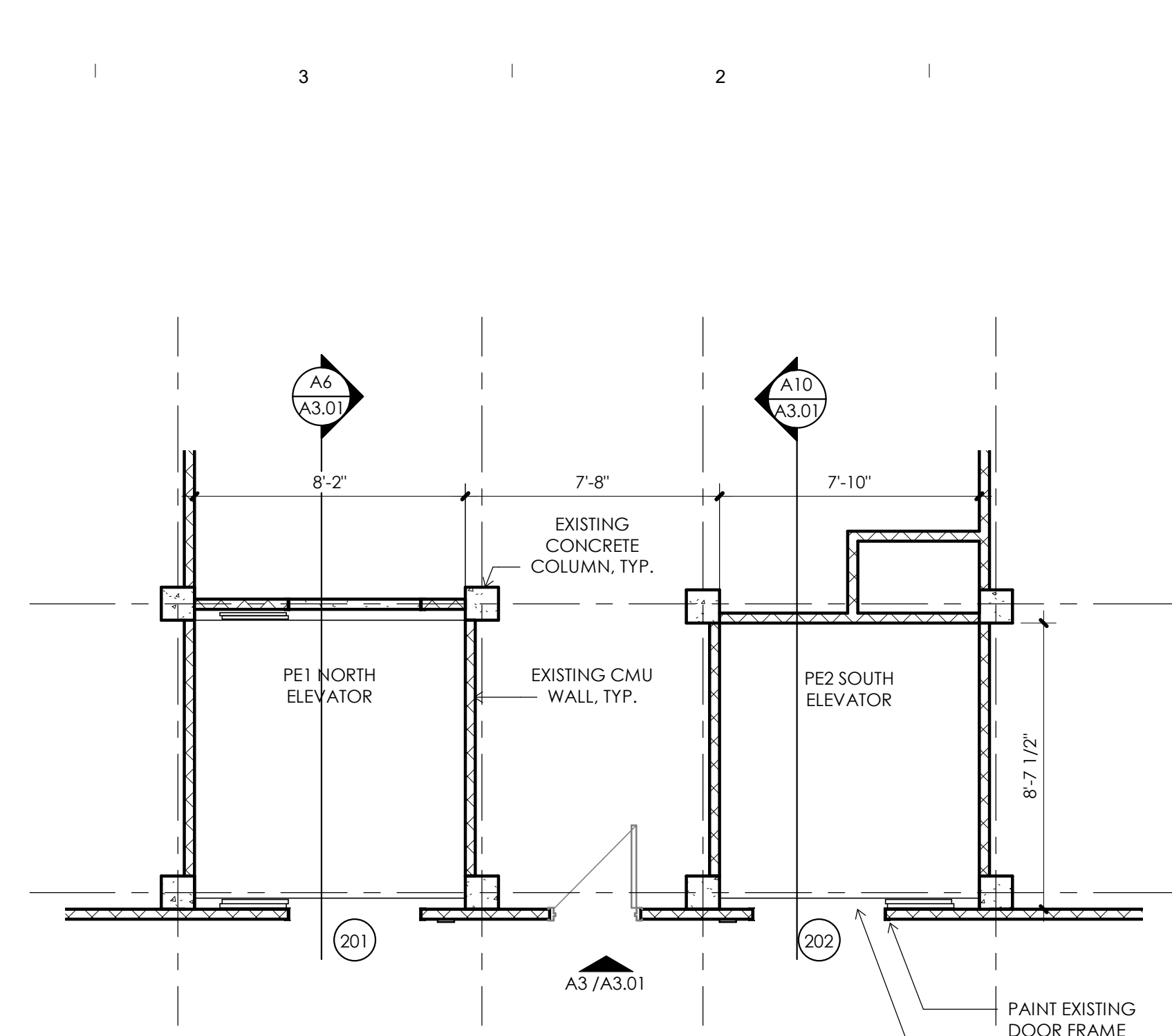
**F7**  
FLOOR PLAN - FIFTH  
FLOOR  
1/4" = 1'-0"



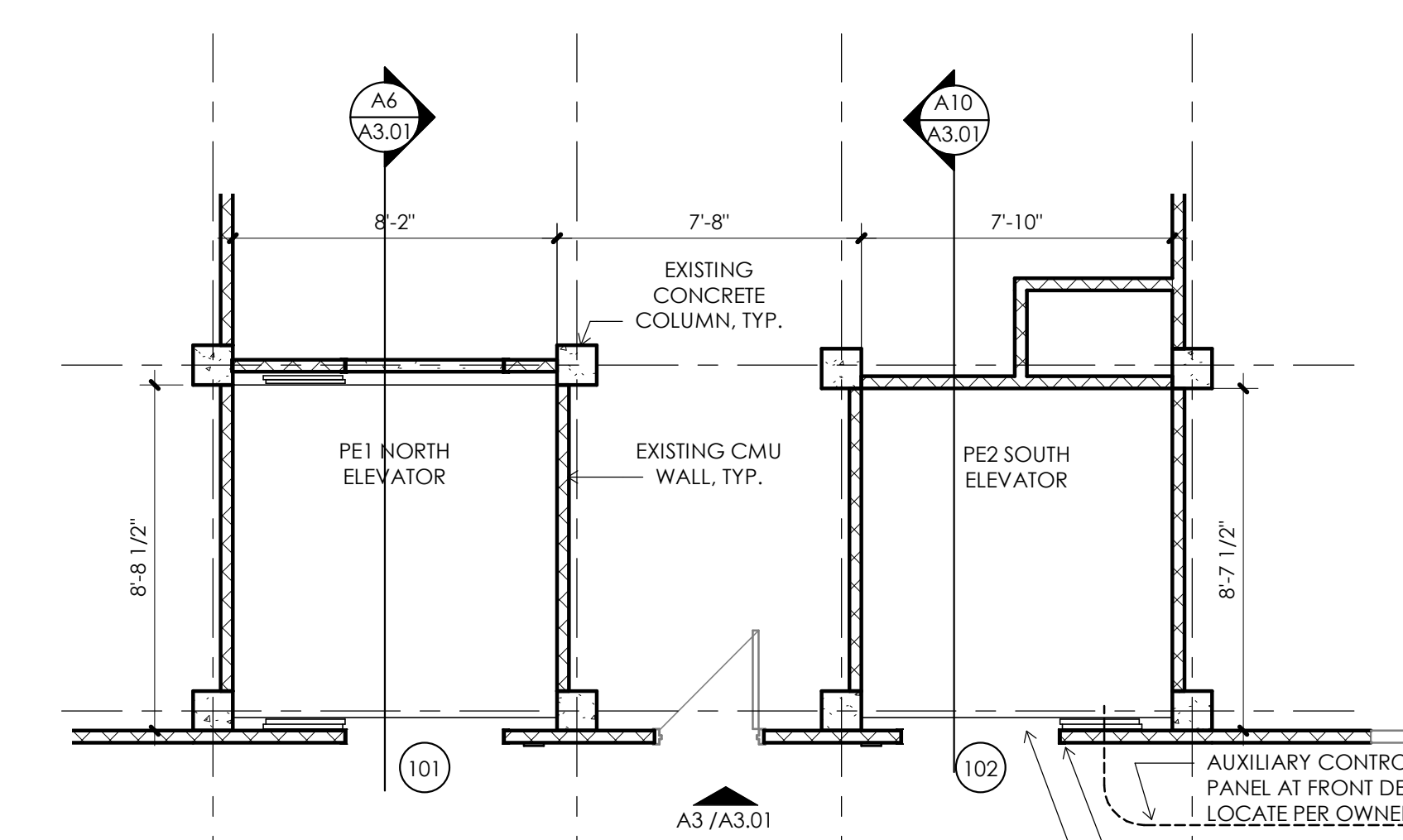
**D7**  
FLOOR PLAN - FOURTH  
FLOOR  
1/4" = 1'-0"



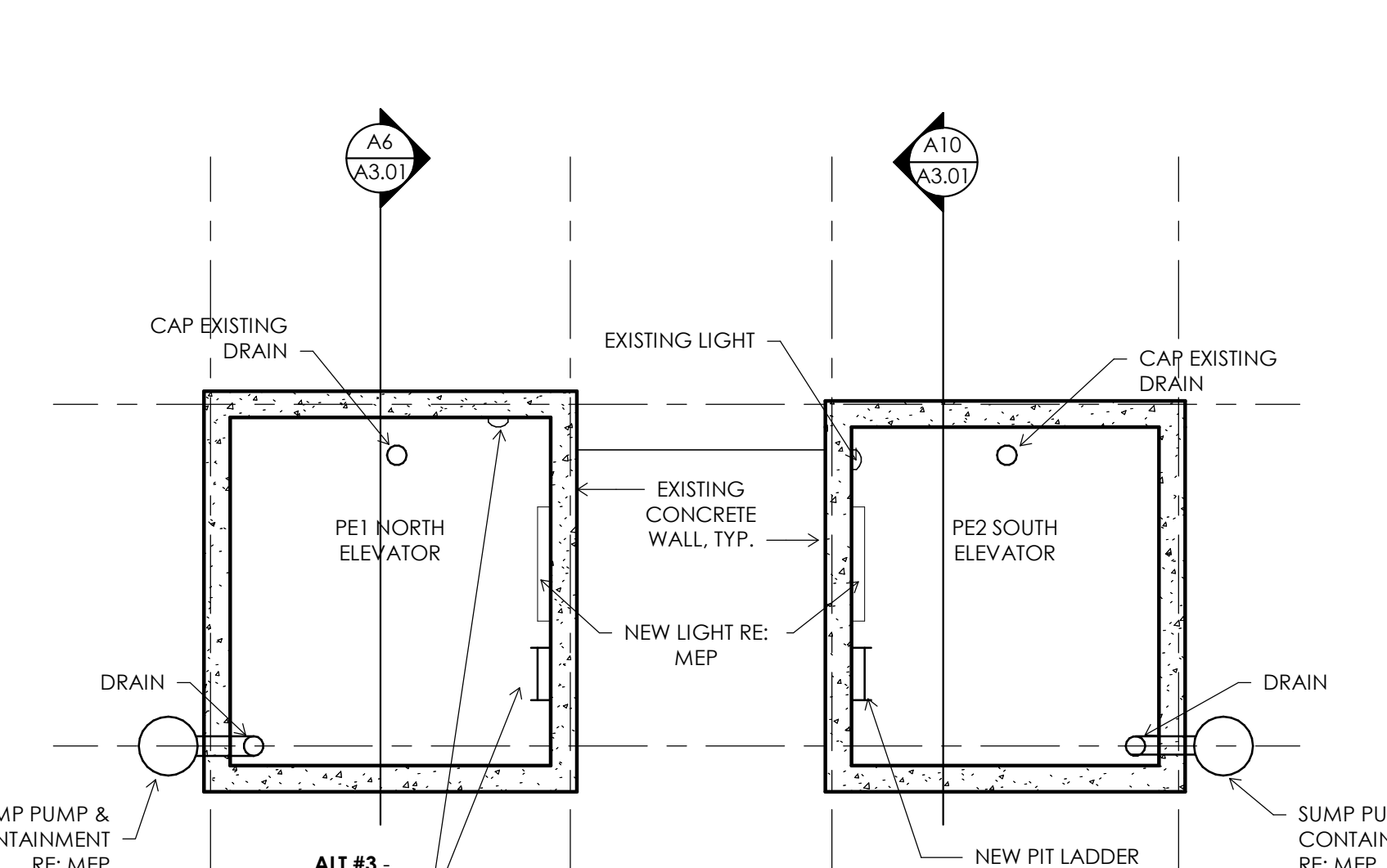
**A7**  
FLOOR PLAN - THIRD  
FLOOR  
1/4" = 1'-0"



**F4**  
FLOOR PLAN - SECOND  
FLOOR  
1/4" = 1'-0"

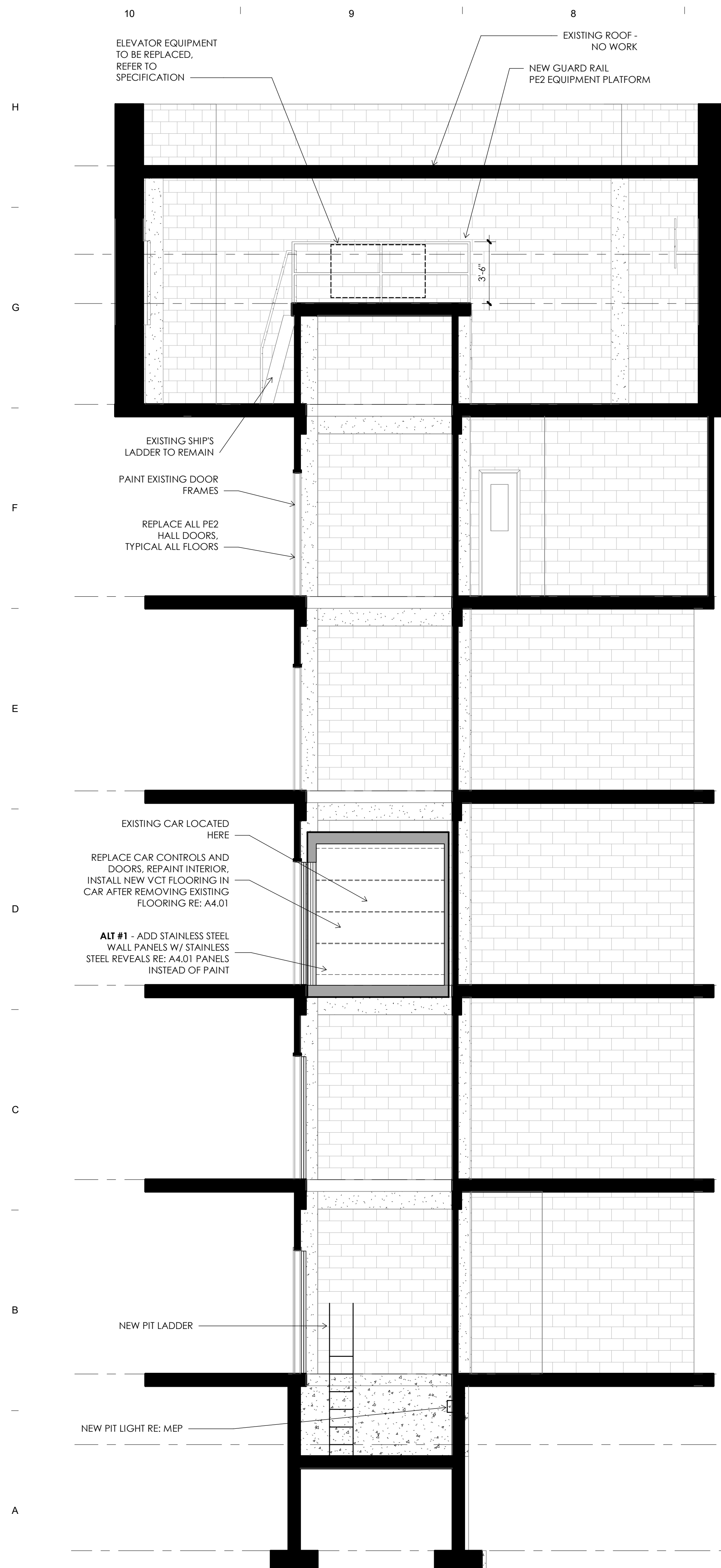


**C4**  
FLOOR PLAN - FIRST  
FLOOR  
1/4" = 1'-0"



**A4**  
FLOOR PLAN - PIT  
1/4" = 1'-0"

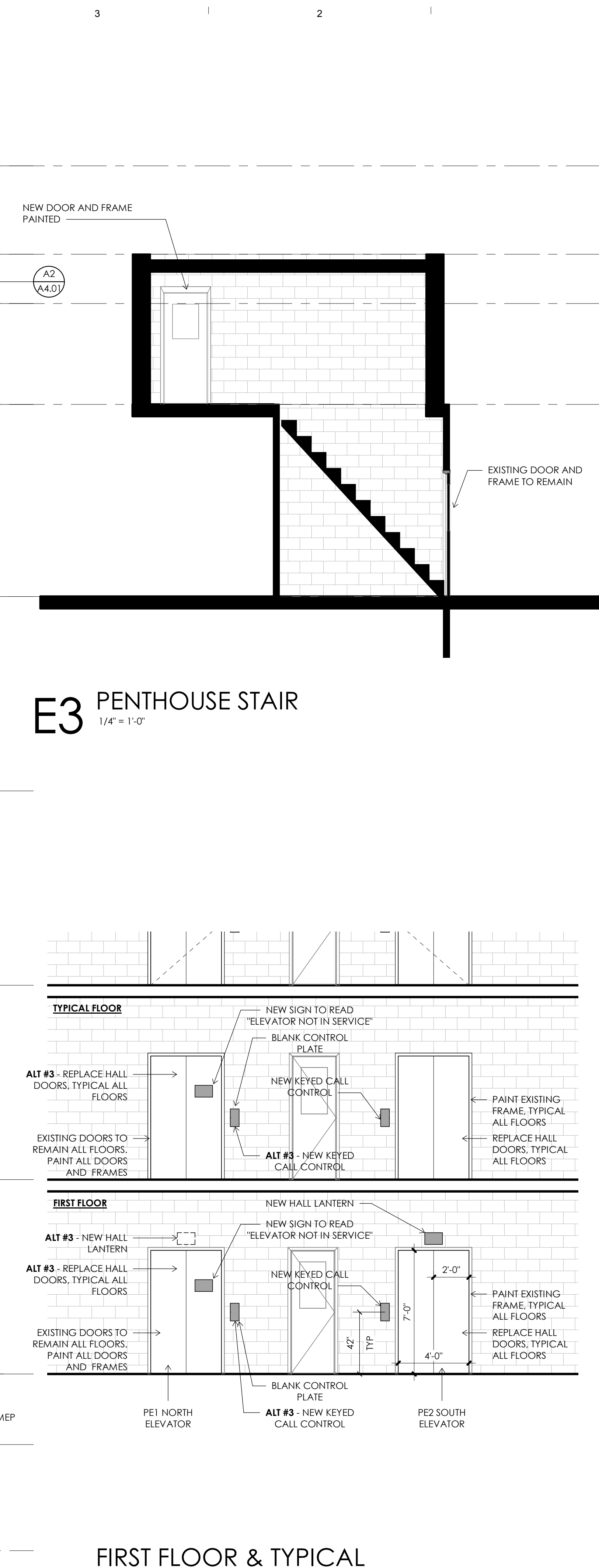




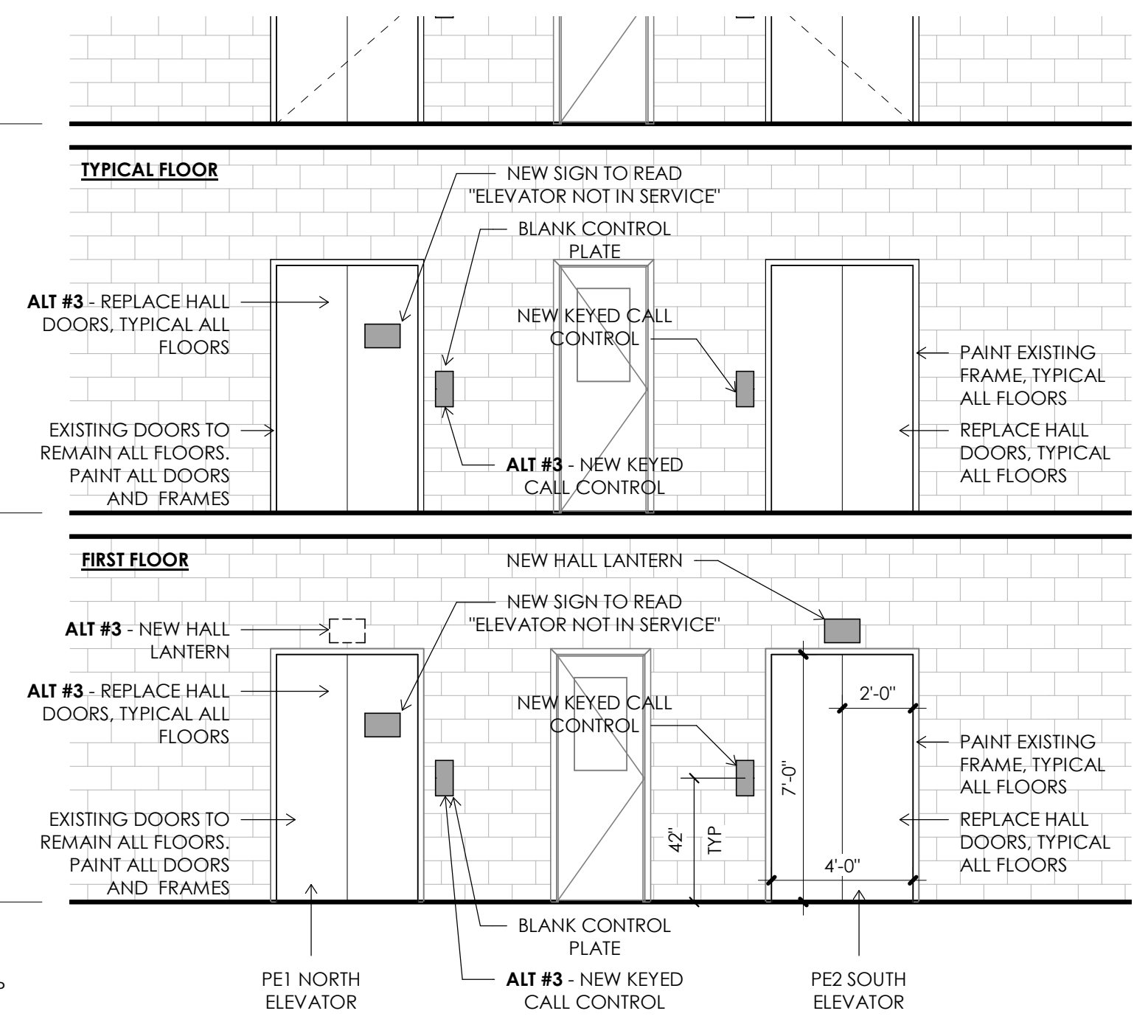
**A10** PE2 ELEVATOR SECTION  
1/4" = 1'-0"



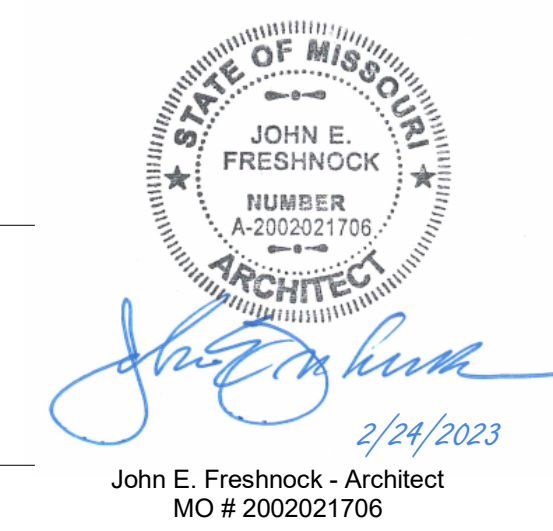
**A6** PE1 ELEVATOR SECTION  
1/4" = 1'-0"



**E3** PENTHOUSE STAIR  
1/4" = 1'-0"



**A3** FIRST FLOOR & TYPICAL FLOOR ELEVATION  
1/4" = 1'-0"



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STATE #: C2224-01  
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CAD DWG FILE:  
DRAWN BY: Carlos Baez  
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DESIGNED BY: John Freshnock

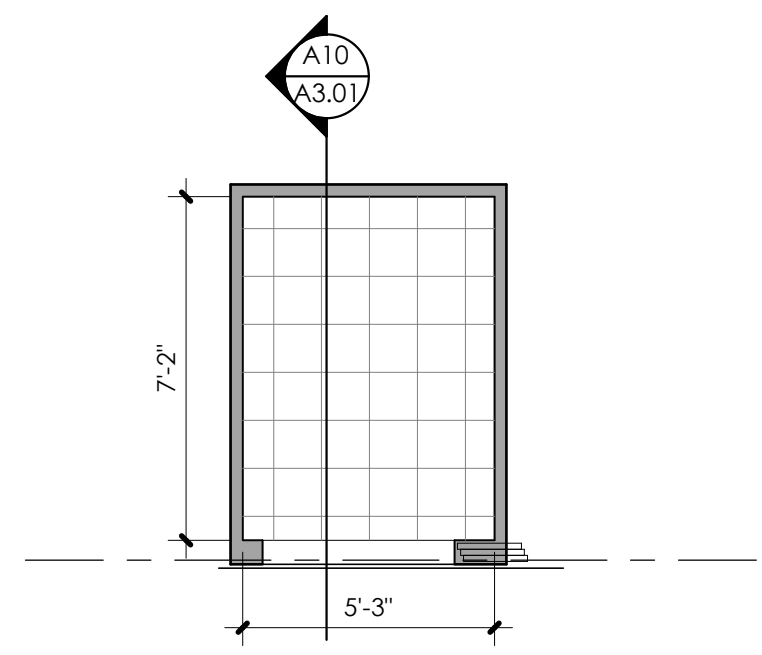
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BUILDING  
SECTIONS AND  
ELEVATIONS

SHEET NUMBER:

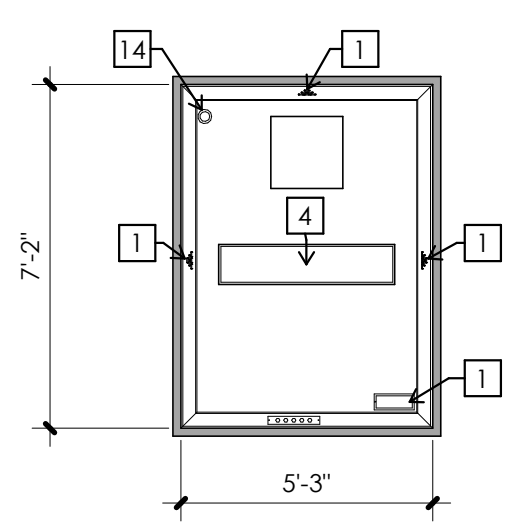
**A3.01**

SHEET 3 OF 9  
ISSUE DATE: 1/11/23

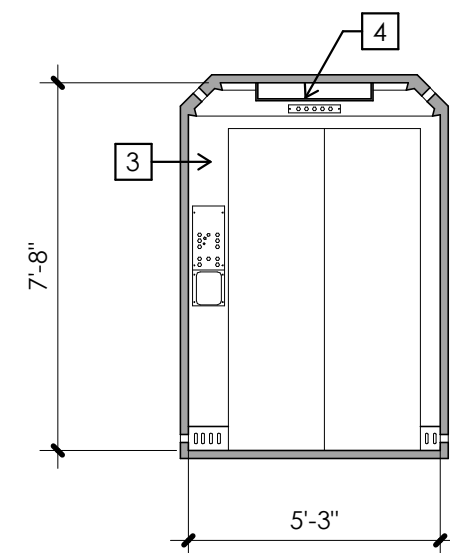




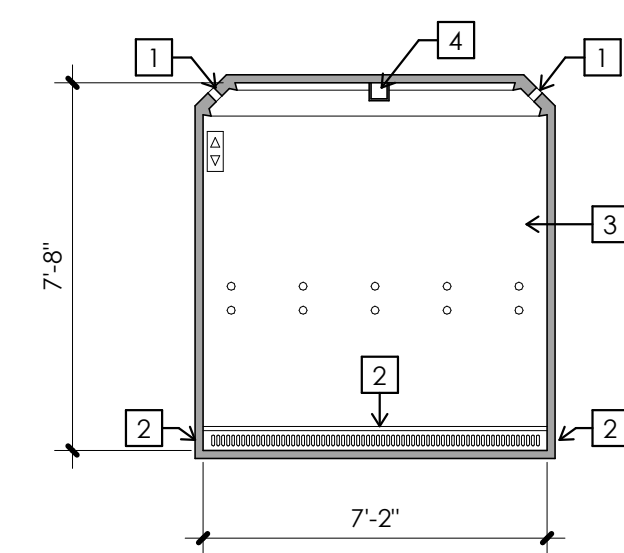
**G9** PE2 CAB PLAN - EXISTING  
1/4" = 1'-0"



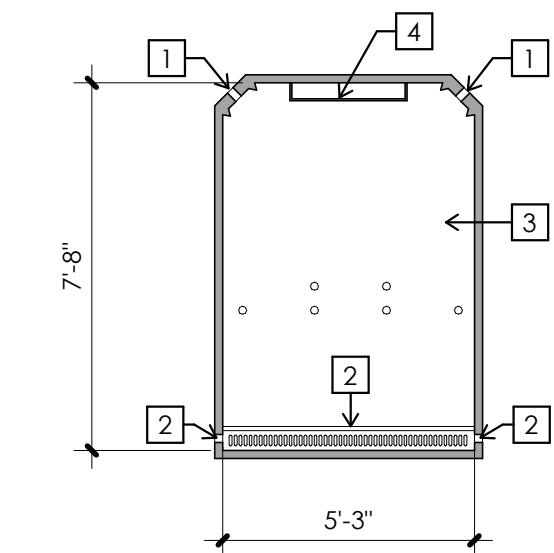
**G8** PE2 CAB RCP - EXISTING  
1/4" = 1'-0"



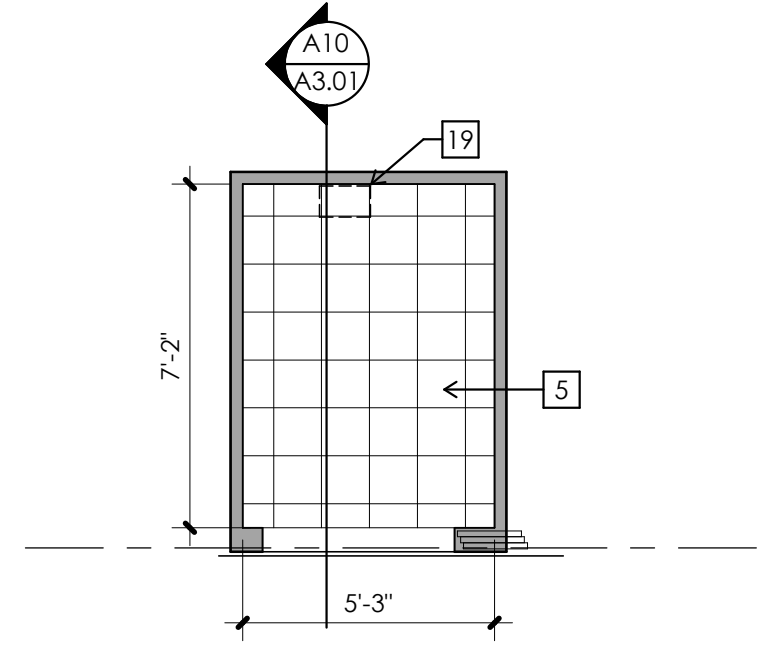
**G7** PE2 CAB ELEVATION - EAST - EXISTING  
1/4" = 1'-0"



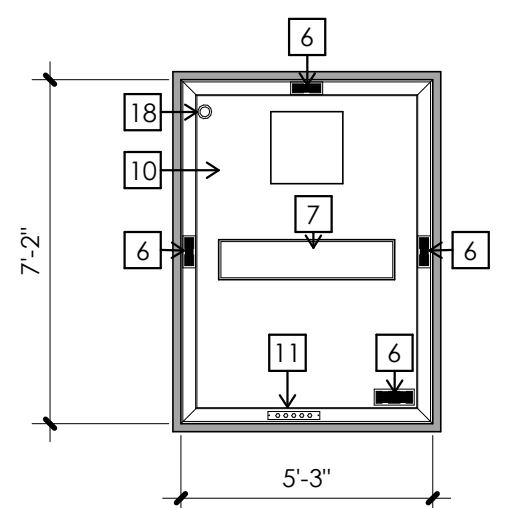
**G5** PE2 CAB ELEVATION - N/S - EXISTING  
1/4" = 1'-0"



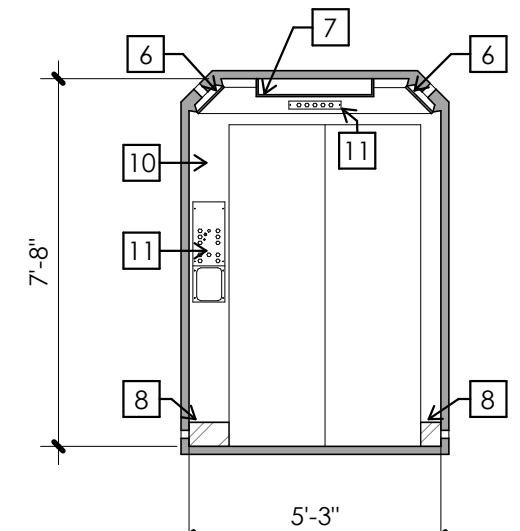
**G4** PE2 CAB ELEVATION - WEST - EXISTING  
1/4" = 1'-0"



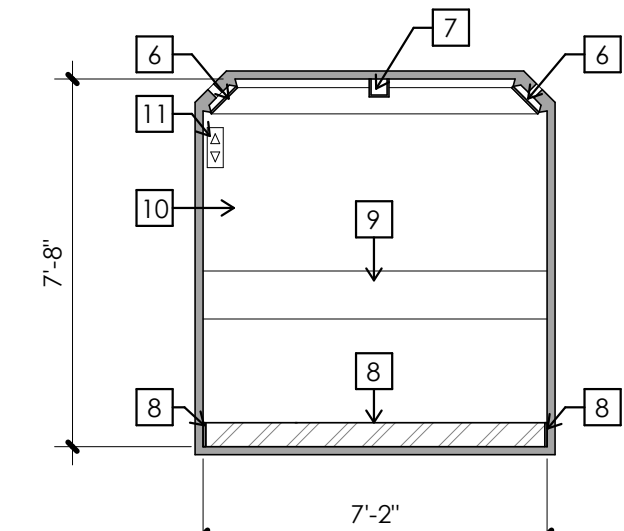
**E9** PE2 CAB PLAN - BASE BID  
1/4" = 1'-0"



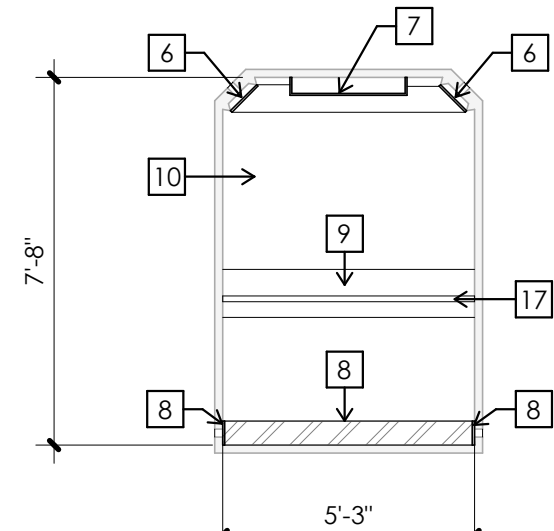
**E8** PE2 CAB RCP - BASE BID  
1/4" = 1'-0"



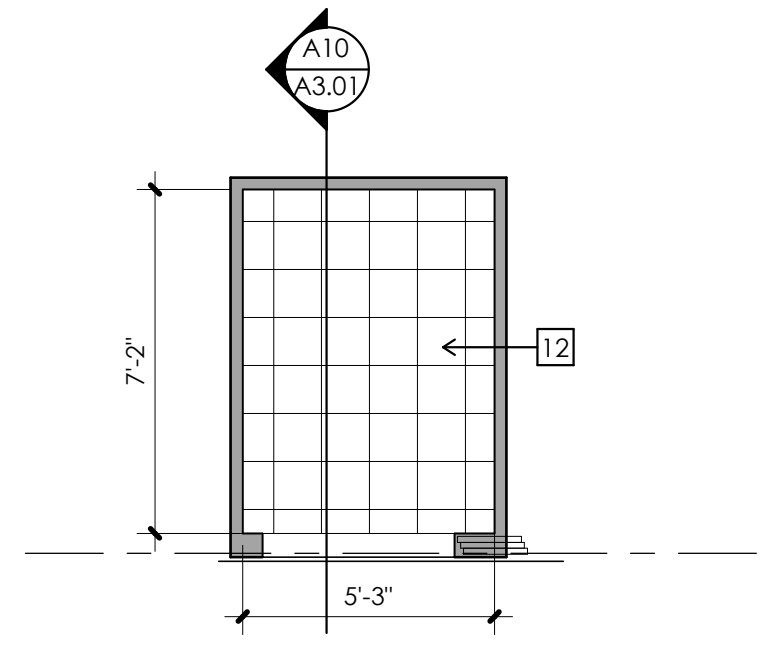
**E7** PE2 CAB ELEVATION - EAST - BASE BID  
1/4" = 1'-0"



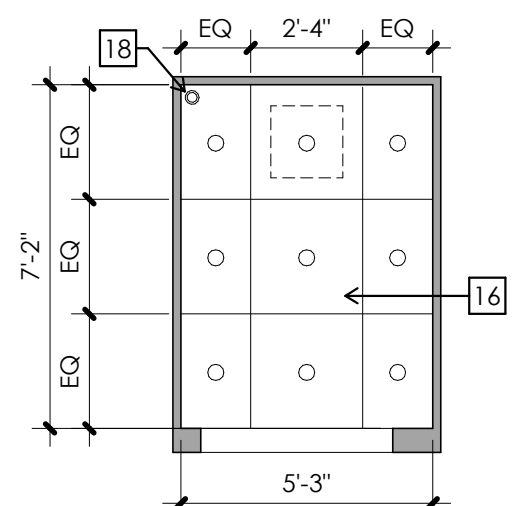
**E5** PE2 CAB ELEVATION - N/S - BASE BID  
1/4" = 1'-0"



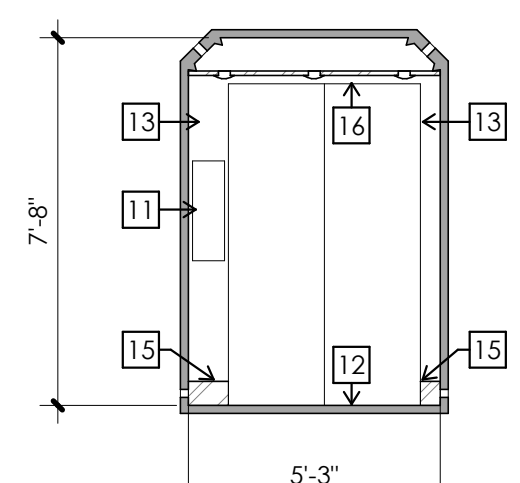
**E4** PE2 CAB ELEVATION - WEST - BASE BID  
1/4" = 1'-0"



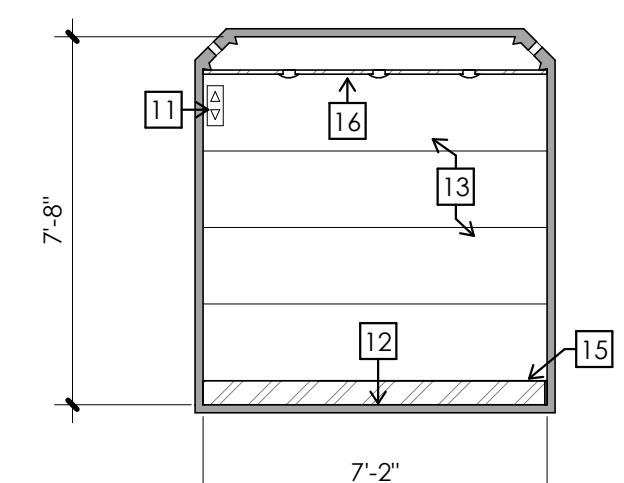
**C9** PE2 CAB PLAN - ALTERNATE #1  
1/4" = 1'-0"



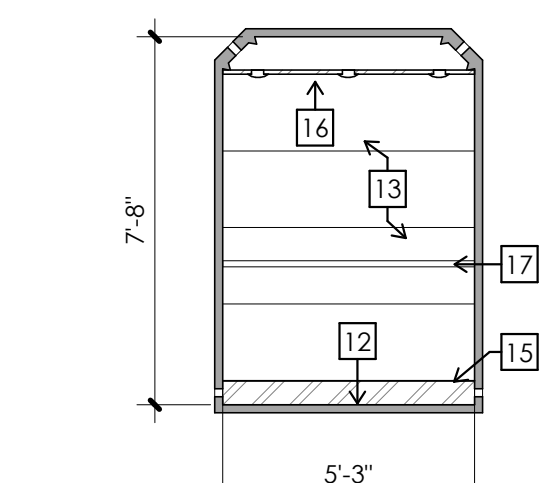
**C8** PE2 CAB RCP - ALTERNATE #1  
1/4" = 1'-0"



**C7** PE2 CAB ELEVATION - EAST - ALTERNATES #1 AND #4  
1/4" = 1'-0"



**C5** PE2 CAB ELEVATION - N/S - ALTERNATES #1 AND #4  
1/4" = 1'-0"



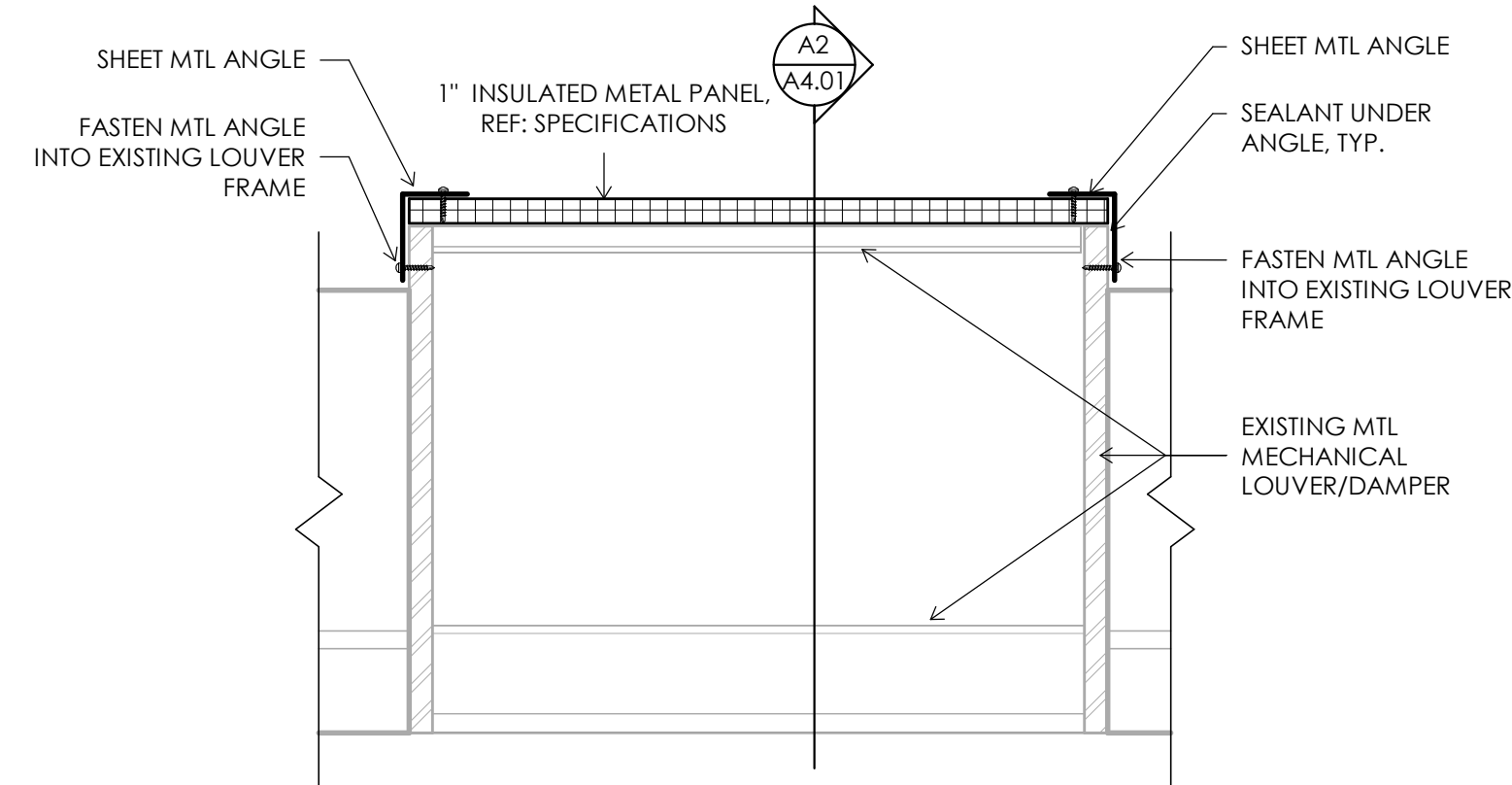
**C4** PE2 CAB ELEVATION - WEST - ALTERNATES #1 AND #4  
1/4" = 1'-0"

**GENERAL NOTES:**

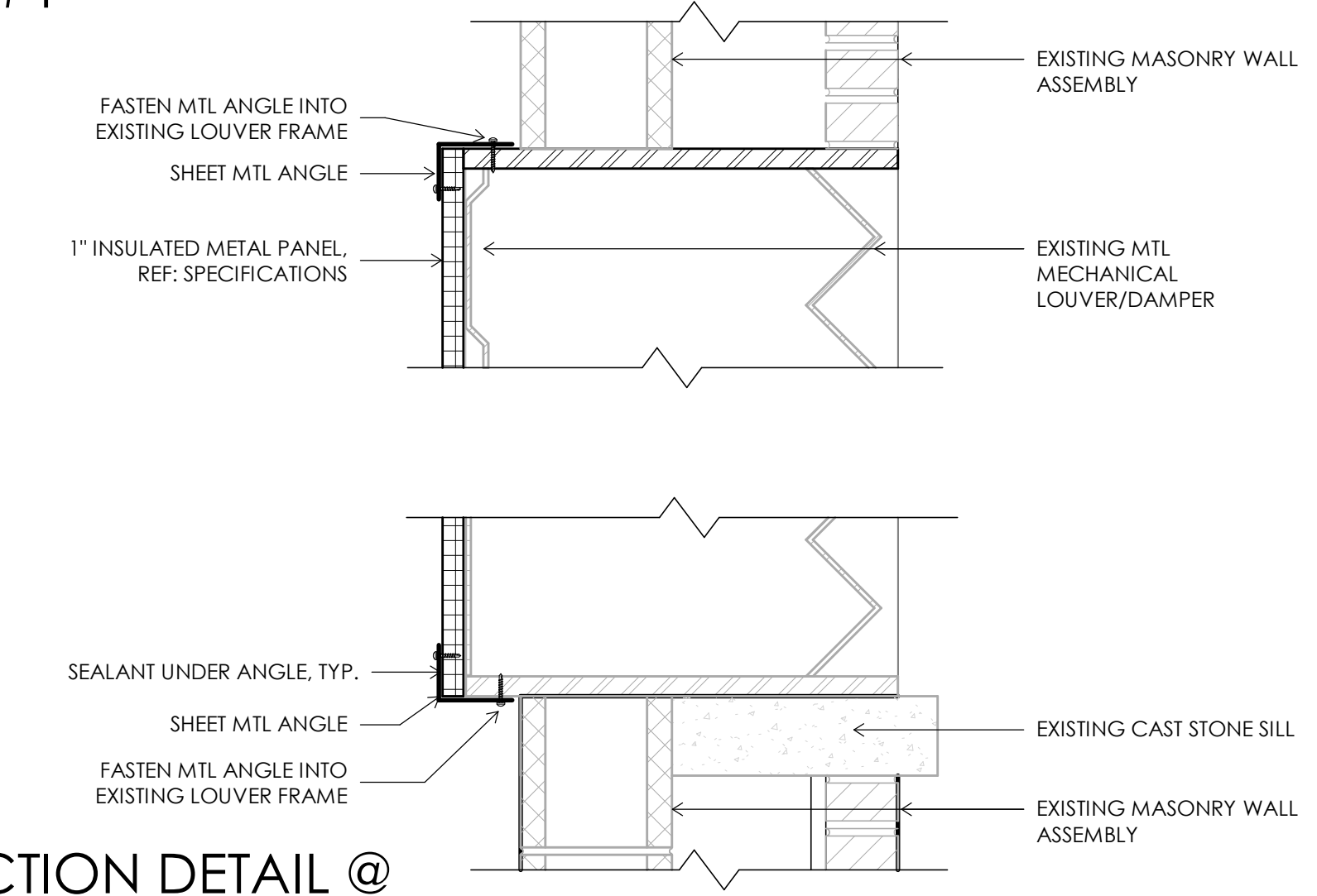
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND EXISTING CONDITIONS. ANY DISCREPANCIES WHICH WILL PREVENT THE ACCOMPLISHMENT OF INTENT SHOWN ON DRAWINGS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
- WHERE A CONDITION IS NOTED 'TYPICAL' (TYP.), IT IS UNDERSTOOD THAT ALL SIMILAR CONDITIONS BE CONSTRUCTED OF THE SAME MATERIALS AND/OR DIMENSIONS.

**ELEVATION NOTES:**

- EXISTING VENT
- EXISTING VENTED BASE: RUBBER BASE TO BE REMOVED FOR BASE BID
- EXISTING WALL PANELS
- EXISTING LIGHT; BASE BID - DEMO
- EXISTING VCT TO REMAIN; BASE BID - REPLACE AND REPAIR
- KEES GRILL; PAINTED, INSTALL OVER EXISTING VENT - ANTI-LIGATURE PROTECTION
- LIGHT FIXTURE - ANTI-LIGATURE
- KEES GRILL; STAINLESS STEEL, BASE OVERLAY - ANTI-LIGATURE PROTECTION
- 1/4" MTL PLATE WITH COUNTERSUNK FASTENERS
- PAINT EXISTING WALL & CEILING PANELS
- REPLACE CAR CONTROLS AND INDICATORS
- REPLACE VCT FLOOR WITH NEW VCT
- STAINLESS STEEL METAL WALL PANELS - INPRO (OR APPROVED EQUAL)
- EXISTING CAMERA
- VENTED BASE COVER; INPRO (OR APPROVED EQUAL) - ANTI-LIGATURE
- ANTI-LIGATURE VENTED STAINLESS STEEL CEILING WITH NEW ANTI-LIGATURE LIGHTING, FAN, AND ACCESS HATCH - INPRO (OR APPROVED EQUAL)
- 1-1/2" DIA. STAINLESS STEEL HANDRAIL - ANTI-LIGATURE; 3" AFF TYP.
- REPLACE EXISTING CAMERA WITH NEW CAMERA, TIED INTO EXISTING SYSTEM.
- REPLACE DAMAGED VCT TILE



**A5** PLAN DETAIL @ INSULATED CAP FOR EXG LOUVER  
1 1/2" = 1'-0"



**A2** SECTION DETAIL @ INSULATED CAP FOR EXG LOUVER  
1 1/2" = 1'-0"



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STATE #: C2224-01  
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DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

CAD DWG FILE:  
DRAWN BY: Carlos Baez  
CHECKED BY: Chris O'Connor  
DESIGNED BY: John Freshnock

SHEET TITLE:  
ELEVATOR CAB PLANS

SHEET NUMBER:

**A4.01**

SHEET 4 OF 9  
ISSUE DATE: 1/11/23



## ELECTRICAL SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

|  |  |   |
|--|--|---|
| <p><b>CIRCUITING</b></p> <p>HOME RUN (2#12 1#12G UNO)<br/>INDICATES 2 PHASE, 1 N, &amp; 1 GRD CONDUCTOR<br/>HOME RUN: INDICATES SHARED CIRCUIT<br/>HOME RUN: INDICATES #10 CONDUCTORS ENTIRELY</p> <p><b>UTILITIES</b></p> <p>--- UGE --- UNDERGROUND ELECTRICAL<br/>--- OHE --- OVERHEAD ELECTRICAL<br/>--- TELE --- TELECOMMUNICATIONS CONDUIT<br/>--- UGT --- UNDERGROUND TELECOMMUNICATIONS CONDUIT</p> <p><b>LIGHTING</b></p> <p>GRID-MOUNTED TROFFER LIGHT FIXTURE<br/>STRIP LIGHT FIXTURE<br/>SURFACE/RECESSED LIGHT FIXTURE<br/>WALL-MOUNTED LIGHT FIXTURE<br/>POLE-MOUNTED LIGHT FIXTURE<br/>EXIT LIGHT<br/>BATTERY-OPERATED EMERGENCY LIGHT (WALL MTD)<br/>BATTERY-OPERATED EMERGENCY LIGHT (CEILING MTD)<br/>WALL-MOUNTED COMBINATION EXIT LIGHT/<br/>BATTERY-OPERATED EMERGENCY LIGHT<br/>LIGHT SWITCH - SINGLE POLE<br/>LIGHT SWITCH - 3-WAY<br/>LIGHT SWITCH - 4-WAY<br/>LIGHT SWITCH - KEY<br/>LIGHT SWITCH - DIMMER<br/>LIGHT SWITCH - PILOT LIGHT<br/>LIGHT SWITCH - 2 POLE<br/>LIGHT SWITCH - 3-WAY DIMMER<br/>WALL-MOUNTED MOTION SWITCH<br/>CEILING-MOUNTED MOTION SWITCH<br/>SWITCHBANK - REFER TO DETAILS<br/>DIMMER BOARD<br/>REMOTE CONTROL SWITCH AS SCHEDULED<br/>TIMELOCK - REFER TO PLANS / DETAILS</p> <p><b>EQUIPMENT</b></p> <p>DISCONNECT SWITCH. RE: PLANS FOR INFORMATION.<br/>MAGNETIC MOTOR STARTER<br/>COMBINATION DISCONNECT SWITCH / MOTOR STARTER<br/>TOGGLE-TYPE DISCONNECT. FURNISH WITH THERMAL MOTOR PROTECTION WHERE SERVING FANS/PUMPS.<br/>SURFACE PANELBOARD<br/>RECESSED PANELBOARD<br/>DISTRIBUTION PANELBOARD<br/>SWITCHBOARD. FEEDER/MAIN CIRCUIT BREAKER SECTION AND DISTRIBUTION SECTION.</p> <p><b>GENERAL SYMBOLS</b></p> <p>INDICATES CONNECT TO EXISTING<br/>INDICATES ELEVATION<br/>EQUIPMENT TAG. REFER TO CONNECTIONS SCHEDULE FOR ELECTRICAL CONNECTIONS AND LOAD INFO FOR KITCHEN, SHOP, ETC. EQUIPMENT</p> | <p><b>POWER DEVICES</b></p> <p>DUPLEX RECEPTACLE<br/>LINE THRU DEVICE INDICATES ABOVE COUNTER<br/>SPECIAL DUPLEX RECEPTACLE (GFCL, ISOLATED GROUND, ETC.)<br/>QUADPLEX RECEPTACLE<br/>SIMPLEX RECEPTACLE W/NEMA CONFIG AS NOTED<br/>MULTI-POLE RECEPTACLE W/NEMA CONFIG AS NOTED<br/>CEILING MOUNTED RECEPTACLE<br/>RECEPTACLE/DEVICE MOUNTED IN "TOMBSTONE"<br/>POKE-THRU WITH POWER<br/>POKE-THRU WITH TELECOMMUNICATIONS<br/>POKE-THRU WITH W/POWER AND TELECOM<br/>FLOOR BOX<br/>DIVIDED POWER POLE<br/>CLOCK RECEPTACLE<br/>PLUG MOLD / WIRE MOLD AS SPECIFIED<br/>JUNCTION BOX<br/>THERMOSTAT - ELECTRIC<br/>PUSH BUTTON<br/>MOTOR</p> <p><b>TELEPHONE/DATA</b></p> <p>TELEPHONE OUTLET (SINGLE-GANG BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING)<br/>LINE THRU DEVICE INDICATES ABOVE COUNTER<br/>DATA OUTLET (DOUBLE-GANG BOX WITH (2) 3/4" CONDUITS TO ABOVE ACCESSIBLE CEILING)<br/>TELEPHONE/DATA OUTLET (DOUBLE-GANG BOX WITH (2) 3/4" CONDUITS TO ABOVE ACCESSIBLE CLG.)<br/>PHONE OUTLET WITH NUMBER OF PHONE JACKS AS INDICATED - SEE DETAILS FOR ADD'L INFO.<br/>DATA OUTLET WITH NUMBER OF PHONE JACKS AS INDICATED - SEE DETAILS FOR ADD'L INFO.<br/>PHONE/DATA OUTLET WITH NUMBER OF PHONE/DATA JACKS AS INDICATED - SEE DETAILS FOR ADD'L INFO.<br/>WALL-MOUNTED WIRELESS INTERNET TRANSMITTER<br/>CEILING-MOUNTED WIRELESS INTERNET TRANSMITTER</p> <p><b>AUDIO/VISUAL</b></p> <p>TELEVISION OUTLET (SINGLE GANG BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING)<br/>REVERSE TELEVISION OUTLET - CABLE TO HEAD END<br/>RECESSED COMBINATION AV AND POWER OUTLET COORD LOCATION OF DEVICE WITH TV MOUNT<br/>TEACHER'S DESK CONNECTIONS - RE: DETAILS<br/>WALL SPEAKER<br/>CEILING SPEAKER<br/>CEILING SPEAKER - SUBWOOFER<br/>CEILING SPEAKER - SOUND SYSTEM<br/>VOLUME CONTROL<br/>SOUND SYSTEM AUDIO JACK<br/>REMOTE MICROPHONE CONTROL</p> | <p><b>FIRE ALARM</b></p> <p>MANUAL PULL STATION<br/>CEILING SMOKE DETECTOR<br/>DUCT SMOKE DETECTOR<br/>HEAT DETECTOR<br/>WATERFLOW SWITCH<br/>TAMPER SWITCH<br/>WALL-MOUNTED FA STROBE WITH CANDELA RATING. 15cd UNLESS OTHERWISE NOTED ON PLANS.<br/>WALL-MOUNTED FA HORN<br/>WALL-MOUNTED FA SPEAKER<br/>WALL-MOUNTED FA HORN/STROBE WITH CANDELA RATING. 15cd UNLESS OTHERWISE NOTED ON PLANS.<br/>WALL-MOUNTED FA SPEAKER/STROBE WITH CANDELA RATING. 15cd UNLESS OTHERWISE NOTED ON PLANS.<br/>CEILING-MOUNTED FA STROBE WITH CANDELA RATING. MINIMUM OF 15cd RATING.<br/>CEILING-MOUNTED FA SPEAKER.<br/>CEILING-MOUNTED FA HORN/STROBE WITH CANDELA RATING. MINIMUM OF 15cd RATING.<br/>CEILING-MOUNTED FA SPEAKER/STROBE WITH CANDELA RATING. MINIMUM OF 15cd RATING.<br/>RELAY<br/>FIRE ALARM CONTROL PANEL<br/>FIRE ALARM ANNUNCIATOR PANEL<br/>REMOTE ANNUNCIATOR PANEL<br/>FIRE ALARM EXTENDER CABINET<br/>DOOR HOLDER<br/>SINGLE / MULTI-STATION 120V SMOKE ALARM<br/>ZONE ADDRESSABLE MODULE<br/>INDIVIDUAL ADDRESSABLE MODULE<br/>KITCHEN HOOD FIRE SUPPRESSION SYSTEM PANEL<br/>KITCHEN HOOD REMOTE PULL STATION<br/>AREA OF RESCUE ASSISTANCE STATION<br/>AREA OF RESCUE ASSISTANCE MASTER STATION</p> <p><b>COMMUNICATIONS SYMBOLS</b></p> <p>INTERCOM CALL STATION<br/>INTERCOM HANDSET<br/>PUBLIC ADDRESS SYSTEM AMPLIFIER<br/>INTERCOM MASTER STATION<br/>WALL SPEAKER - HORN TYPE<br/>CEILING SPEAKER - HORN TYPE<br/>ELEVATOR 2-WAY COMMUNICATION STATION<br/>ELEVATOR 2-WAY COMMUNICATION MASTER STATION<br/>ELEVATOR 2-WAY COMMUNICATION POWER SUPPLY</p> <p><b>SECURITY</b></p> <p>FIXED CAMERA<br/>PAN/TILT/ZOOM CAMERA<br/>PROXIMITY TYPE CARD READER<br/>SWIPE CARD READER<br/>ELECTRIC STRIKE<br/>KEYPAD / MAG LOCK<br/>BUTTON / MAG LOCK</p> |
|--|--|---|

## ABBREVIATIONS

|                                   |                                      |                               |
|-----------------------------------|--------------------------------------|-------------------------------|
| A/E ARCHITECT / ENGINEER          | ELEV ELEVATION                       | MH MANHOLE                    |
| AFF ABOVE FINISHED FLOOR          | EM EMERGENCY FIXTURE/DEVICE          | MLO MAIN LUGS ONLY            |
| AFG ABOVE FINISHED GRADE          | EMT ENTERING WATER TEMPERATURE       | NFA NET FREE AREA             |
| AG ABOVE GRADE                    | EX EXISTING ITEM                     | NL NIGHT LIGHT                |
| AHU AUTHORITY HAVING JURISDICTION | FFA FROM FLOOR ABOVE                 | OD OUTSIDE AIR                |
| AHU AIR HANDLING UNIT             | FFB FROM FLOOR BELOW                 | OR OVERFLOW ROOF DRAIN        |
| ARCH ARCHITECT                    | FFCO FINISHED FLOOR CLEAN OUT        | P/C PLUMBING CONTRACTOR       |
| BCP BACKFLOW PREVENTER            | FGO FLOW GRADE CLEAN OUT             | PSI POUNDS PER SQUARE INCH    |
| BG BELOW GRADE                    | FL FLOW LINE                         | PVC POLYVINYLCHLORIDE         |
| BLDG BUILDING                     | FLR FLOOR                            | RA RETURN AIR                 |
| BMS BUILDING MANAGEMENT SYSTEM    | FP FIRE PROTECTION                   | RE/REF REFER / REFERENCE      |
| C CONDUIT                         | FFM FEET PER MINUTE                  | RF RELIEF FAN                 |
| CD CANDLE                         | FFWC FLUSH WALL CLEAN OUT            | RL RELOCATED ITEM             |
| CD COLD DECK                      | G GROUND / GANG                      | RPZ REDUCED PRESSURE ZONE     |
| CLG COOLING                       | G/C GENERAL CONTRACTOR               | RS RESTROOM                   |
| CM COORDINATE MOUNTING HEIGHT     | GFI GROUND FAULT CIRCUIT INTERRUPTER | SA SUPPLY AIR                 |
| CO CLEAN OUT                      | GFM GALLONS PER MINUTE               | SPD SURGE PROTECTIVE DEVICE   |
| CTE CONNECT TO EXISTING           | HD HOT DECK                          | ST SHUNT TRIP                 |
| DCVA DOUBLE CHECK VALVE ASSEMBLY  | HTG HEATING                          | TA TRANSFER AIR               |
| DOW DOMESTIC COLD WATER           | IG ISOLATED GROUND                   | TFB TO FLOOR ABOVE            |
| DDC DIRECT DIGITAL CONTROLS       | JB JUNCTION BOX                      | TFP TO FLOOR BELOW            |
| DF DRINKING FOUNTAIN              | LED LIGHT EMITTING DIODE             | TR TYPICAL                    |
| DHW DOMESTIC HOT WATER            | LWT LEAVING WATER TEMPERATURE        | UNO UNLESS NOTED OTHERWISE    |
| DIA DIAMETER                      | M/C MECHANICAL CONTRACTOR            | VRF VARIABLE REFRIGERANT FLOW |
| DN DOWN                           | MA MIXED AIR                         | VTR VENT THROUGH ROOF         |
| E/C ELECTRICAL CONTRACTOR         | MAU MAKE UP AIR UNIT                 | WCO WALL CLEANOUT             |
| EA EXHAUST AIR                    | MCB MAIN CIRCUIT BREAKER             | WG WIRE GUARD                 |
| EDF ELECTRIC DRINKING FOUNTAIN    | MECH MECHANICAL                      | WP WEATHERPROOF               |

## FIRE SEALING NOTES

- COORDINATE CONSTRUCTION OF OPENINGS AND PENETRATING ITEMS TO ENSURE THAT THROUGH-PENETRATION FIRESTOP SYSTEMS ARE INSTALLED ACCORDING TO SPECIFIED AND APPLICABLE UL REQUIREMENTS.
- COORDINATE SIZING OF SLEEVES, OPENINGS, CORE-DRILLED HOLES, OR CUT OPENINGS TO ACCOMMODATE THROUGH-PENETRATION FIRESTOP SYSTEMS.
- DO NOT COVER UP THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLATIONS UNTIL EXAMINED BY INSPECTOR, IF REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- COMPATIBILITY: PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS THAT ARE COMPATIBLE WITH ONE ANOTHER, WITH THE SUBSTRATES FORMING OPENINGS; AND WITH THE ITEMS, IF ANY, PENETRATING THROUGH-PENETRATION FIRESTOP SYSTEMS, UNDER CONDITIONS OF SERVICE AND APPLICATION AS DEMONSTRATED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.
- PROVIDE COMPONENTS FOR EACH THROUGH-PENETRATION FIRESTOP SYSTEM THAT ARE NEEDED TO INSTALL FILL MATERIALS. USE ONLY COMPONENTS SPECIFIED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER AND APPROVED BY QUALIFIED TESTING AND INSPECTING AGENCY FOR FIRESTOP SYSTEMS INSTALLED.
- PROVIDE SLEEVES THROUGH ALL FIRE-RATED WALLS AND FILL VOIDS SURROUNDING SLEEVES AND INTERIOR TO SLEEVES AROUND PIPING WITH FIRE STOP PUTTY WITH UL LISTED 3 HOUR RATING INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS.
- FIRE SEAL ALL PIPING, CONDUIT, CABLE, ETC PENETRATIONS ROUTED THROUGH FIRE RATED WALLS.
- PROVIDE FIRE RATED ENCLOSURES OR WRAPS ON LIGHT FIXTURES AND OTHER ITEMS PENETRATING FIRE RATED CEILING, FLOOR/CEILING/ CEILING/ROOF ASSEMBLIES TO MAINTAIN UL LISTING FOR CONSTRUCTION.

## MECHANICAL AND PLUMBING SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

|   |   |   |
|---|---|---|
| <p><b>GENERAL SYMBOLS</b></p> <p>INDICATES CONNECT TO EXISTING<br/>INDICATES ELEVATION<br/>EQUIPMENT TAG. REFER TO CONNECTIONS SCHEDULE FOR MECHANICAL CONNECTIONS AND LOAD INFO FOR KITCHEN, SHOP, ETC. EQUIPMENT</p> <p><b>SHEET METAL</b></p> <p>FD-FIRE DAMPER FS-FIRE/SMOKE DAMPER<br/>SD-SMOKE DAMPER BD-BACKDRAFT DAMPER (GRAVITY)<br/>AUTOMATIC MOTORIZED DAMPER<br/>SUPPLY DIFFUSER AND DIFFUSER CALLOUT (NECK SIZE, TYPE AND CFM)<br/>LINEAR/SLOT DIFFUSER<br/>RETURN GRILLE OR EXHAUST REGISTER<br/>SUPPLY AIR FLOW INDICATOR<br/>RETURN AND EXHAUST AIR FLOW INDICATOR<br/>THERMOSTAT<br/>TEMPERATURE SENSOR<br/>HUMIDISTAT<br/>CONTROL WIRING</p> <p><b>PLUMBING FIXTURES/EQUIPMENT</b></p> <p>HOSE BIBB<br/>WALL HYDRANT<br/>CLEAN OUT<br/>REDUCED PRESSURE BACKFLOW PREVENTER<br/>DOUBLE CHECK BACKFLOW PREVENTER<br/>PLUMBING FIXTURE AND CALLOUT<br/>FLOOR DRAIN, AD: AREA DRAIN, FS: FLOOR SINK<br/>ROOF DRAIN<br/>ORD: OVERFLOW ROOF DRAIN</p> | <p><b>MECHANICAL PIPING</b></p> <p>REFRIGERANT LIQUID<br/>REFRIGERANT SUCTION<br/>DRAIN (CONDENSATE)<br/>COMPRESSED AIR<br/>CHILLED WATER SUPPLY<br/>CHILLED WATER RETURN<br/>CHILLED/HOT WATER SUPPLY<br/>CHILLED/HOT WATER RETURN<br/>HOT WATER SUPPLY<br/>HOT WATER RETURN<br/>COOLING TOWER SUPPLY<br/>COOLING TOWER RETURN<br/>STEAM (ANY #S DENOTE PRESSURE)<br/>CONDENSATE RETURN (#S DENOTE PRESSURE)<br/>REFRIGERANT VENT<br/>RUPTURE DISK</p> <p><b>PLUMBING PIPING</b></p> <p>DOMESTIC COLD WATER<br/>DOMESTIC HOT WATER<br/>RE-CIRCULATING DOMESTIC HOT WATER<br/>WASTE ABOVE GRADE OR FLOOR<br/>WASTE BELOW GRADE OR FLOOR<br/>STORM ABOVE GRADE OR FLOOR<br/>STORM BELOW GRADE OR FLOOR<br/>STORM OVERFLOW ABOVE GRADE OR FLOOR<br/>STORM OVERFLOW BELOW GRADE OR FLOOR<br/>PLUMBING VENT<br/>WATER SERVICE<br/>GAS (NATURAL)<br/>FROM SUMP PUMP DISCHARGE<br/>COMPRESSED AIR<br/>PROPANE</p> | <p><b>PIPING SYMBOLS</b></p> <p>SHUTOFF VALVE<br/>SHUTOFF VALVE IN RISER<br/>BALANCING VALVE<br/>PLUG VALVE<br/>AUTO FLOW CONTROL VALVE<br/>PIPING ELBOW UP<br/>PIPING ELBOW DOWN<br/>PIPING TEE<br/>PIPING ELBOW<br/>PIPING TEE UP<br/>PIPING TEE DOWN<br/>INCREASER / REDUCER<br/>UNION<br/>CAP<br/>PIPE FLEX<br/>STRAINER<br/>CHECK VALVE<br/>INLINE STRAINER<br/>TEST PLUG<br/>GUIDE<br/>ANCHOR<br/>TRIPLE DUTY VALVE<br/>AUTOMATIC 2-WAY CONTROL VALVE<br/>AUTOMATIC 3-WAY CONTROL VALVE<br/>SOLENOID VALVE</p> <p><b>FIRE SPRINKLER</b></p> <p>FIRE PROTECTION PIPING<br/>SPRINKLER HEAD<br/>SIDEWALL SPRINKLER HEAD<br/>FIRE PROTECTION SIAMENSE CONNECTION<br/>POST INDICATOR VALVE</p> |
|---|---|---|

## GENERAL ELECTRICAL NOTES

- COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
  - COORDINATE LOCATIONS OF RECEPTACLES, SWITCHES, ETC. WITH ARCHITECTURAL CASEWORK AND ELEVATIONS.
  - REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING HEIGHTS OF ALL DEVICES NOT INDICATED OTHERWISE.
  - PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS AND BUSHED ENDS.
  - CONTRACTOR SHALL CONCEAL ALL CONDUIT, FITTINGS, AND DEVICES FROM VIEW WHERE REASONABLY POSSIBLE.
  - REFER TO SPECIFICATIONS FOR ALLOWABLE WIRING METHODS THROUGHOUT PROJECT.
  - ALL EXPOSED WIRING SHALL BE IN EMT OR METALLIC CONDUIT, EXCEPT AS PERMITTED BY SPECIFICATIONS FOR WHIPS TO EQUIPMENT.
  - ALL CONDUCTOR SIZES INDICATED ON DRAWINGS ARE FOR COPPER CONDUCTORS UNLESS SPECIFICALLY NOTED OTHERWISE. ALUMINUM CONDUCTORS MAY BE USED ONLY UNDER THE FOLLOWING CONDITIONS:
    - AL CONDUCTORS MAY ONLY BE USED ON FEEDERS 100A OR GREATER - NO EXCEPTIONS.
    - ALUMINUM CABLEING SHALL BE COMPACTED ALUMINUM (STABILITY).
    - PROVIDE COMPRESSION-TYPE ONE-HOLE OR TWO-HOLE LUG TERMINATIONS.
    - PROVIDE ANTI-OXIDANT COMPOUND AT TERMINATIONS.
    - CABLE TERMINATIONS SHALL BE MARKED "AL/CU".
    - FINAL SIZES OF CONDUCTORS TO BE CONFIRMED BY ENGINEER.
    - ALUMINUM SERVICE CONDUCTORS MUST HAVE "AA-8000" SERIES LABELING ON CABLE JACKETS PER EVERY REQUIREMENTS - NO EXCEPTIONS.
- ENGINEER RESERVES FINAL RIGHT TO ACCEPT/DENY USE OF ALUMINUM CONDUCTORS FOR PART OR ALL OF PROJECT.

## LOW VOLTAGE SCOPE OF WORK

ELECTRICAL CONTRACTOR'S SCOPE OF WORK FOR THE LOW VOLTAGE SYSTEMS SHOWN ON THESE DRAWINGS SHALL BE AS FOLLOWS:

**FURNISH AND INSTALL SYSTEM COMPLETE AND OPERATIONAL:**

- FIRE ALARM (DIGITAL ADDRESSABLE TYPE) - (FIRE ALARM DEVICES ARE SHOWN ON THESE DRAWINGS FOR REFERENCE/ AND/OR BIDDING PURPOSES ONLY, REFER TO FIRE ALARM SHOP DRAWINGS FOR INSTALLATION AND ADDITIONAL WORK/REQUIREMENTS)

**PROVIDE ROUGH-IN (INCLUDING PATHWAYS) ONLY:**

- SECURITY / ACCESS CONTROL
- HVAC CONTROLS (AS REQUIRED) - COORDINATE WITH MECH. CONTRACTOR

\* GENERAL REMARKS REGARDING ROUGH-IN:

- NO DETERMINATION OF CABLEING TYPES AND/OR REQUIREMENTS (I.E., PHONE, DATA, ETC.) SHALL BE BASED SOLELY OFF THE SYMBOL TYPES SHOWN ON THESE DRAWINGS.
- ALL DEVICE LOCATIONS AND TYPES SHALL BE COORDINATED WITH THE OWNER.

## GENERAL NOTES

- SOME ROOM NAMES MAY NOT BE SHOWN FOR PURPOSE OF CLARIFYING PLAN. REFER TO ARCHITECTURAL PLANS FOR REFERENCE TO ROOM NAMES NOT SHOWN.
- THESE DRAWINGS ARE DIAGNOSTIC. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS (NEW AND EXISTING), DIMENSIONS, AND CLEARANCES PRIOR TO THE COMMENCEMENT OF WORK AND SHALL INCLUDE ALL COSTS, EQUIPMENT, MATERIAL, ACCESSORIES, ETC. REQUIRED FOR A FULLY COMPLETE, FUNCTIONAL AND CODE COMPLIANT INSTALLATION.
- FINAL LOCATIONS OF ALL DEVICES, LIGHT FIXTURES, EQUIPMENT ETC SHALL BE INDICATED ON THE ARCHITECTURAL DRAWINGS. ALL DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM ARCHITECTURAL PLANS. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM MEP DRAWINGS.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, APPROVALS, LICENSES, ETC. AS NEEDED FOR THE COMPLETE INSTALLATION AND PROJECT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR ALL FEES AND DATA NEEDED FOR THIS.

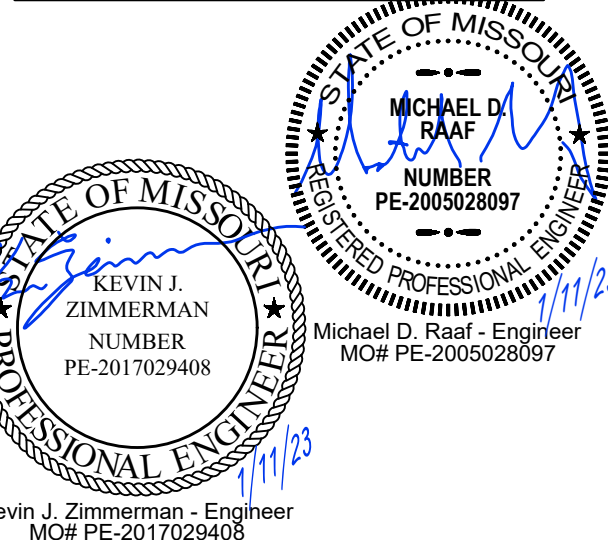
## GEN. MECHANICAL NOTES

- COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE INTERNATIONAL MECHANICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
- ANY POWER FOR CONTROL SYSTEMS TO BE PROVIDED BY E/C IS INDICATED ON ELECTRICAL PLANS. ANY ADDITIONAL LINE VOLTAGE OR LOW VOLTAGE POWER REQUIRED BY THE M/C OR SUBCONTRACTORS TO HAVE A FULLY FUNCTIONING SYSTEM SHALL BE PROVIDED BY THE M/C CONTRACTOR OR SLUGS.
- ALL EQUIPMENT SHALL BE ADEQUATELY AND PROPERLY SUPPORTED AND FASTENED FROM STRUCTURE.
- ALL EQUIPMENT AND ACCESSORIES INSTALLED IN CONCEALED SPACES REQUIRING ACCESS SHALL BE PROVIDED WITH ACCESS DOORS MEETING ANY FIRE REQUIREMENTS OF THE WALL/CEILING THEY ARE INSTALLED.
- START UP AND ADJUST ALL EQUIPMENT AND VERIFY ALL MECHANICAL SYSTEMS IN OPERATE IN ACCORDANCE WITH THEIR INTENDED PURPOSES. SUBMIT BALANCE AND START UP REPORTS TO THE A/E. REFER TO SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.

## GENERAL PLUMBING NOTES

- COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE INTERNATIONAL PLUMBING CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
- NO PIPING SHALL BE INSTALLED WHERE IT WILL BE SUBJECT TO FREEZING TEMPERATURES. PIPING IN EXTERIOR WALLS SHALL BE INSTALLED ON THE WARM SIDE OF BUILDING INSULATION, INSULATED AND THE GAS SHALL BE VENTILATED WITH GRILLES ALLOWING INDOOR AMBIENT CONDITIONS TO CIRCULATE THROUGH THE CHASE.
- ADJUST LOCATION OF PIPING, DUCTWORK, ETC. TO PREVENT INTERFERENCES, BOTH ANTICIPATED AND ENCOUNTERED. DETERMINE THE EXACT ROUTE AND LOCATION OF EACH ITEM PRIOR TO FABRICATION. MAKE OFFSETS, TRANSITIONS AND CHANGES IN DIRECTION IN SYSTEMS AS REQUIRED TO MAINTAIN ADEQUATE CLEARANCES AND HEADROOM.
- WHEREVER THE WORK IS OF SUFFICIENT COMPLEXITY, PREPARE ADDITIONAL COORDINATION DRAWINGS AND ORGANIZE ON-SITE MEETINGS WITH ALL RELATED SUBCONTRACTORS TO COORDINATE THE WORK BETWEEN TRADES. DRAWINGS SHALL CLEARLY SHOW THE WORK AND ITS RELATION TO THE WORK OF OTHER TRADES, AND BE SUBMITTED FOR REVIEW PRIOR TO COMMENCING SHOP FABRICATION OR ERECTION IN THE FIELD.

STATE OF MISSOURI  
MIKE PARSON,  
GOVERNOR



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State of Missouri  
Office of Administration  
Division of Facilities  
Management  
Design and Construction

WESTERN RECEPTION,  
DIAGNOSTIC AND  
CORRECTIONAL CENTER  
ST. JOSEPH, MO

STATE #: C2224-01  
SITE #: 7012  
FACILITY #: 9327012035

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
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CAD DWG FILE:  
DRAWN BY:  
CHECKED BY:  
DESIGNED BY: KZ / MR

SHEET TITLE:  
MECHANICAL /  
ELECTRICAL  
GENERAL NOTES &  
SYMBOLS

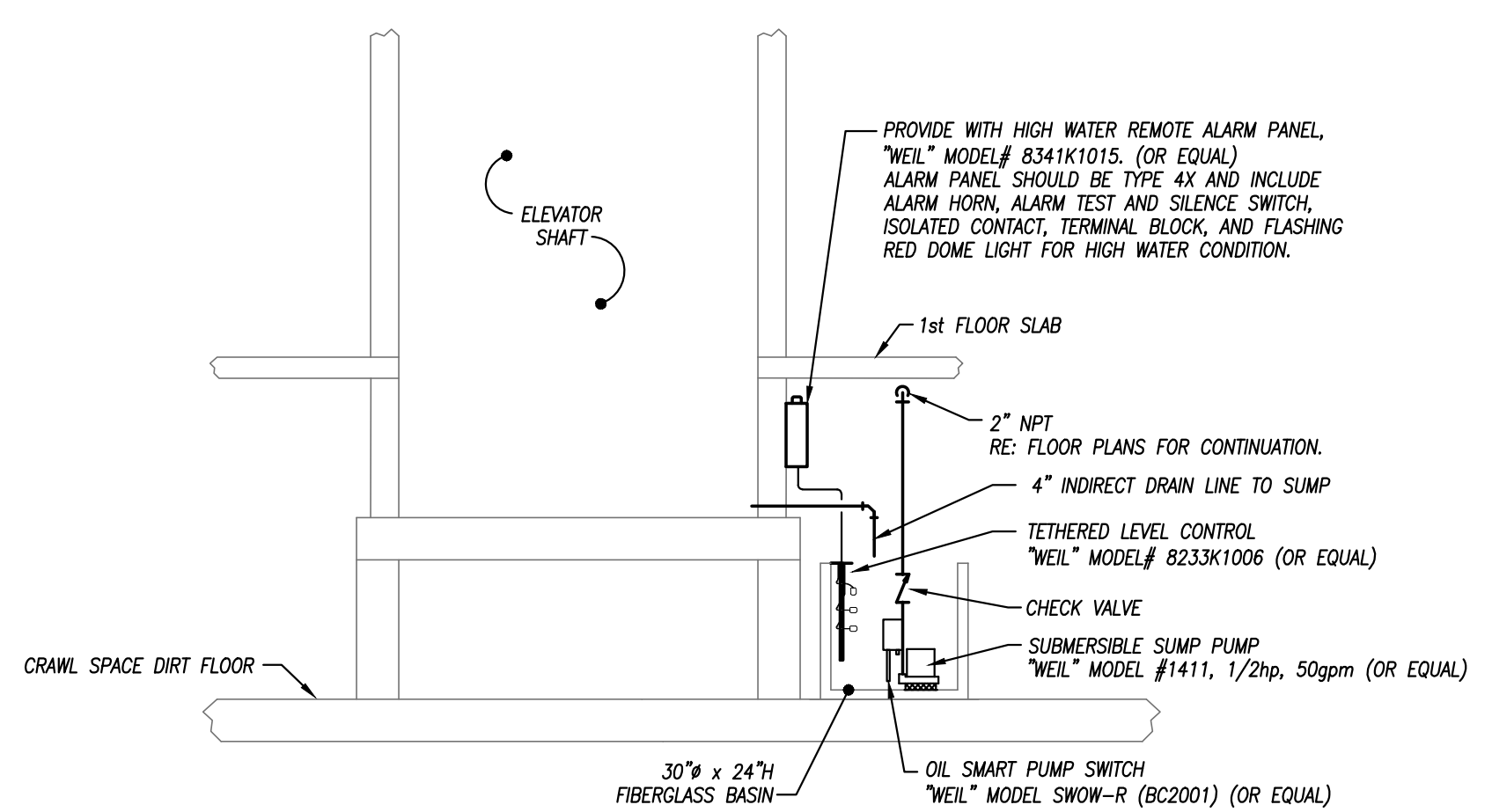
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ISSUE DATE: 1/11/23

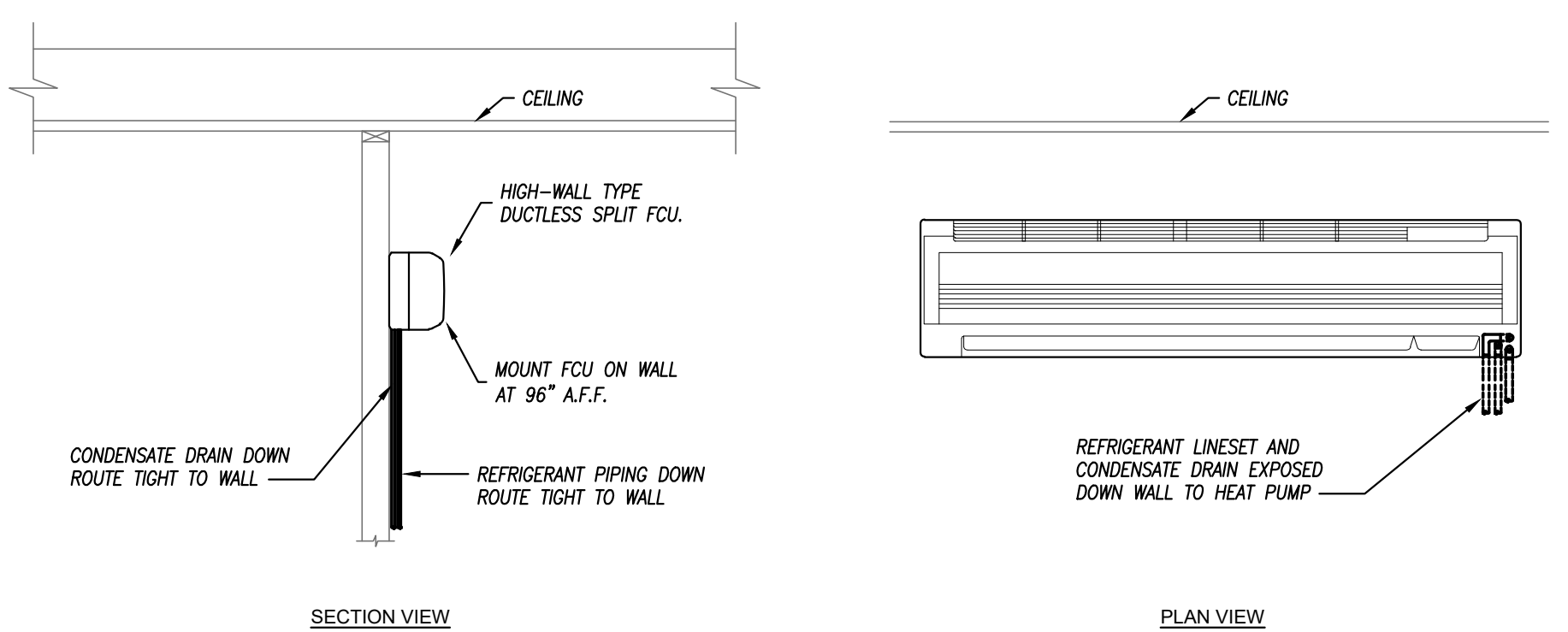


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### ELEVATOR SUMP PUMP DETAIL

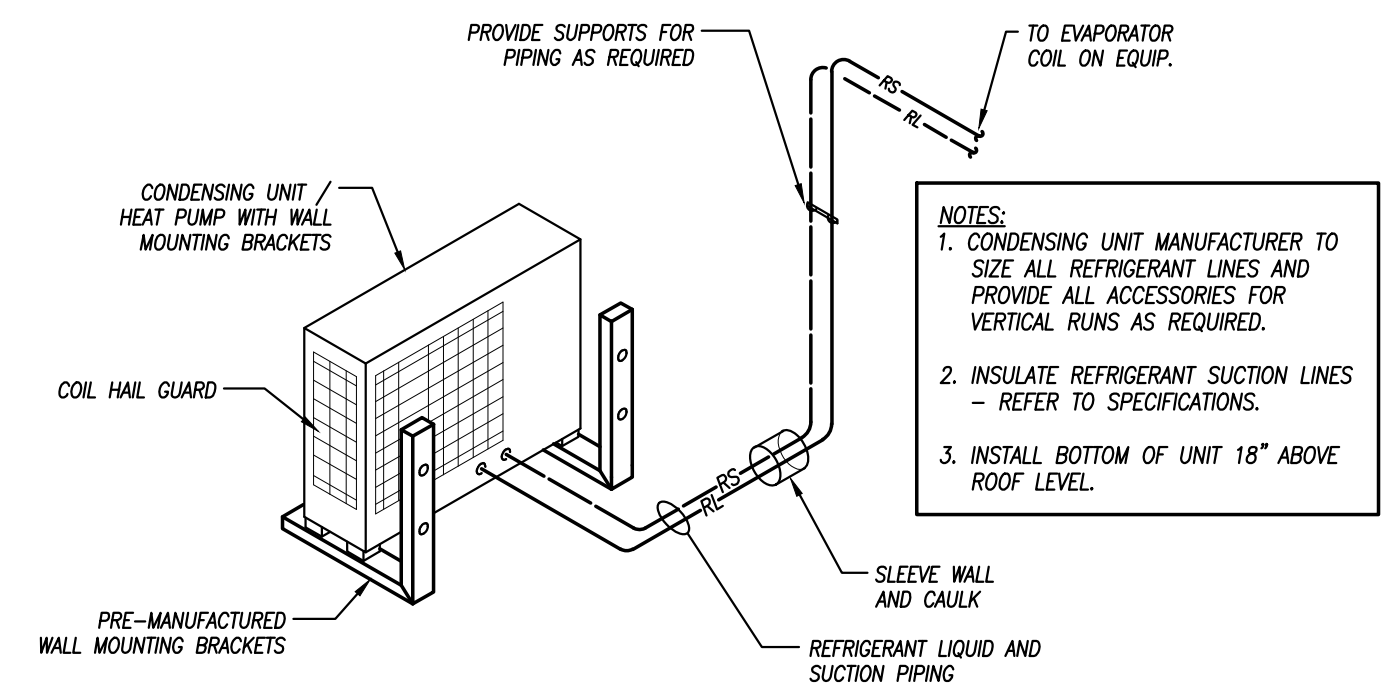
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### WALL-MOUNTED DUCTLESS FAN COIL UNIT DETAILS

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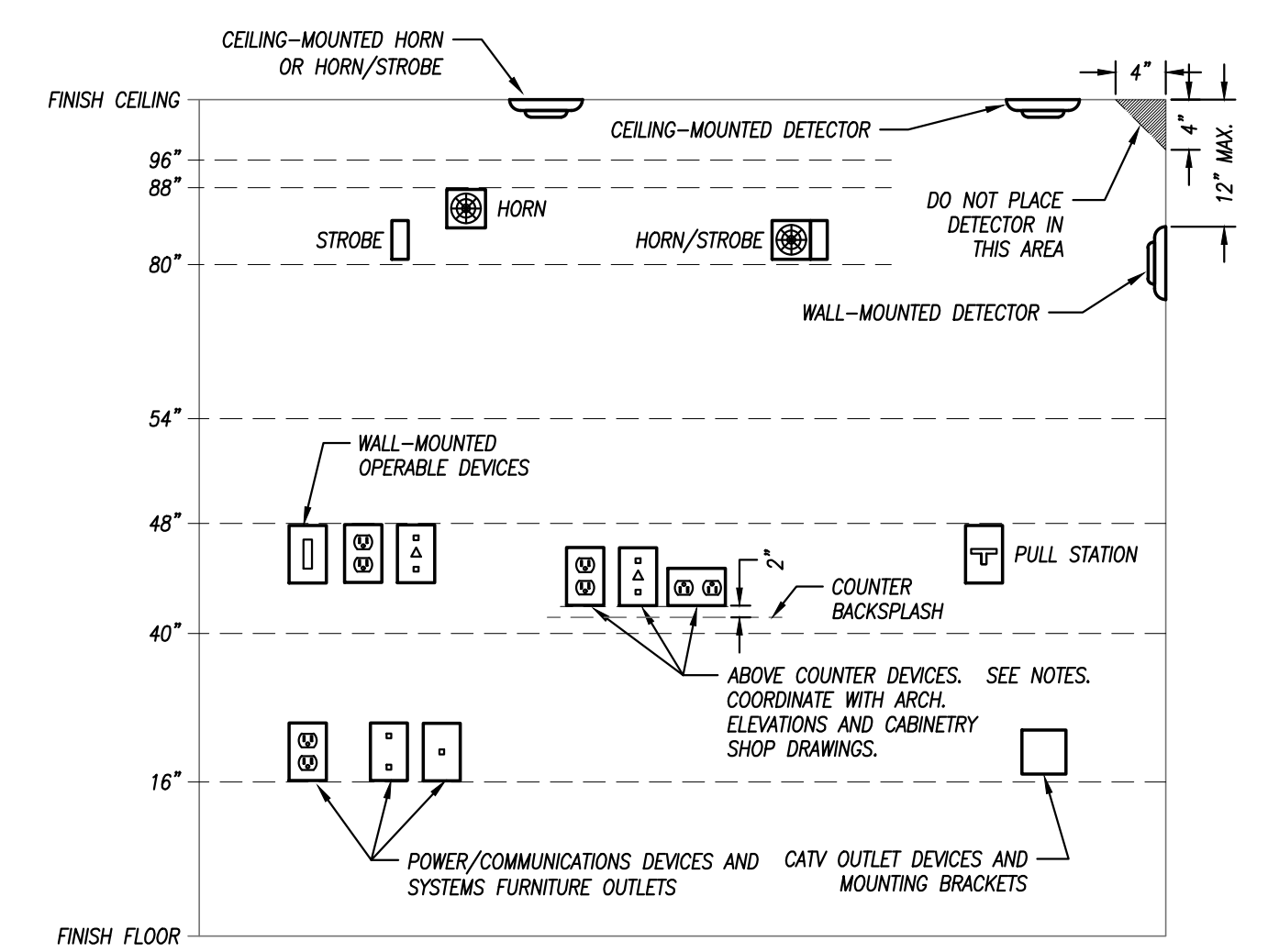
- NOTES:
1. INSTALL ALL COMPONENTS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  2. FAN COILS SHALL HAVE AN OVERFLOW DRAIN PAN INTERLOCK SWITCH.
  3. REFRIGERANT LINES AND CONDENSATE DRAINS SHALL BE INSULATED AS SCHEDULED.



### MINI SPLIT CONDENSING UNIT / HEAT PUMP DETAIL

NOT TO SCALE

- NOTES:
1. CONDENSING UNIT MANUFACTURER TO SIZE ALL REFRIGERANT LINES AND PROVIDE ALL ACCESSORIES FOR VERTICAL RUNS AS REQUIRED.
  2. INSULATE REFRIGERANT SUCTION LINES - REFER TO SPECIFICATIONS.
  3. INSTALL BOTTOM OF UNIT 18" ABOVE ROOF LEVEL.



- GENERAL NOTES:
1. MOUNTING HEIGHTS SHOWN IN THIS DETAIL ARE TYPICAL UNLESS OTHERWISE NOTED ON THE PLANS.
  2. SEE ARCHITECTURAL ELEVATIONS FOR SPECIAL CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.
  3. ALL INSTALLATIONS SHALL COMPLY WITH ADA.

- VISUAL FIRE ALARM NOTIFICATION DEVICES (STROBE)  
LOCATE DEVICE SO THE BOTTOM OF THE DEVICE IS BETWEEN 80" AND 96" A.F.F. (NFPA) OR 6" BELOW CEILING, WHICHEVER IS LOWER (ADA 2010).
- AUDIBLE FIRE ALARM NOTIFICATION DEVICES (HORN)  
LOCATE DEVICE SO THAT THE TOP OF UNIT IS NOT MORE THAN 90" A.F.F. AND NOT LESS THAN 6" BELOW CEILING (NFPA).
- FIRE ALARM ACTIVATION DEVICES (PULL STATION)  
LOCATE FROM-APPROACH DEVICES SO THAT THE HIGHEST OPERABLE PORTION OF THE DEVICES IS NOT MORE THAN 48" A.F.F. (ADA 2010) AND NOT LESS THAN 42" A.F.F. (NFPA).

### MOUNTING HEIGHTS FOR WALL-MOUNTED DEVICES

NOT TO SCALE

| HEAT PUMP UNIT SCHEDULE |              |              |                        |                        |              |                    |            |        |          |         |
|-------------------------|--------------|--------------|------------------------|------------------------|--------------|--------------------|------------|--------|----------|---------|
| PLAN MARK               | MANUFACTURER | MODEL NUMBER | COOLING CAPACITY (MBH) | HEATING CAPACITY (MBH) | MINIMUM SEER | AMBIENT TEMP. (°F) | ELECTRICAL |        |          | REMARKS |
|                         |              |              |                        |                        |              |                    | VOLTS / PH | M.C.A. | M.O.C.P. |         |
| HP-1                    | LENNOX       | MPB024S4S-1P | 24.0                   | 25.0                   | 20.0         | 95 / 47 °          | 208V / 1PH | 18.0   | 25       | 1,2,3   |
| HP-2                    | LENNOX       | MPB024S4S-1P | 24.0                   | 25.0                   | 20.0         | 95 / 47 °          | 208V / 1PH | 18.0   | 25       | 1,2,3   |

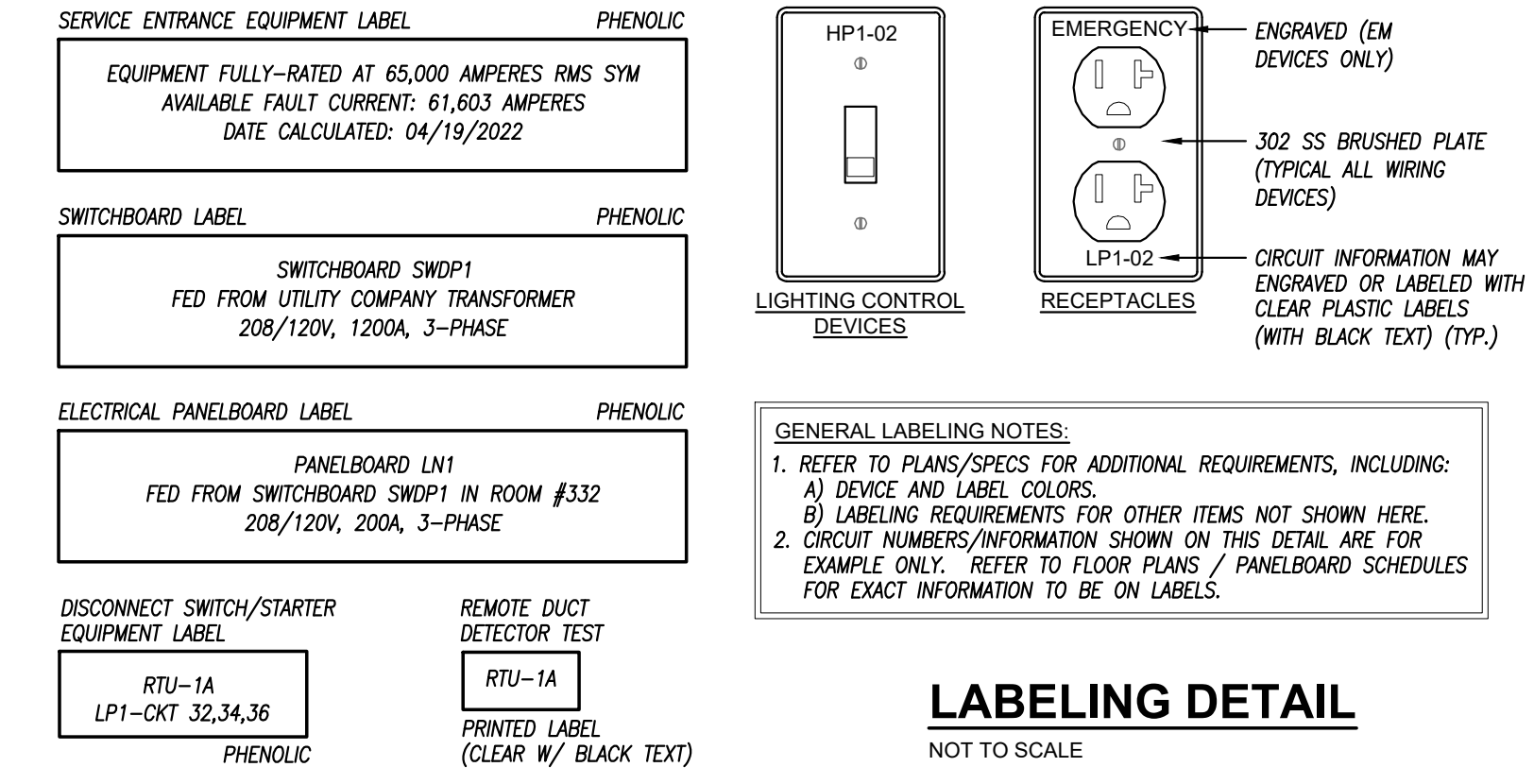
REMARKS:

1. PROVIDE WIRING BETWEEN INDOOR AND OUTDOOR UNIT. COORDINATE WITH EC.
2. PROVIDE WITH BASE PAN HEATER, DEFROST CONTROLS, LOW AMBIENT WIND BAFFLE AND HAIL GUARDS.
3. PROVIDE WITH WALL MOUNTING BRACKETS. INSTALL BOTTOM OF UNIT 18" ABOVE ROOF.

| FAN COIL SCHEDULE |              |              |     |                   |                              |                              |            |     |         |
|-------------------|--------------|--------------|-----|-------------------|------------------------------|------------------------------|------------|-----|---------|
| PLAN MARK         | MANUFACTURER | MODEL NUMBER | CFM | E.S.P. (IN. W.C.) | TOTAL COOLING CAPACITY (MBH) | TOTAL HEATING CAPACITY (MBH) | ELECTRICAL |     | REMARKS |
|                   |              |              |     |                   |                              |                              | VOLTAGE    | FLA |         |
| FC-1              | LENNOX       | MNMA024S4-2P | 695 | NA                | 24.0                         | 25.0                         | 208V / 1PH | 1.5 | 1,2,4   |
| FC-2              | LENNOX       | MNMA024S4-2P | 695 | NA                | 24.0                         | 25.0                         | 208V / 1PH | 1.5 | 1,2,4   |

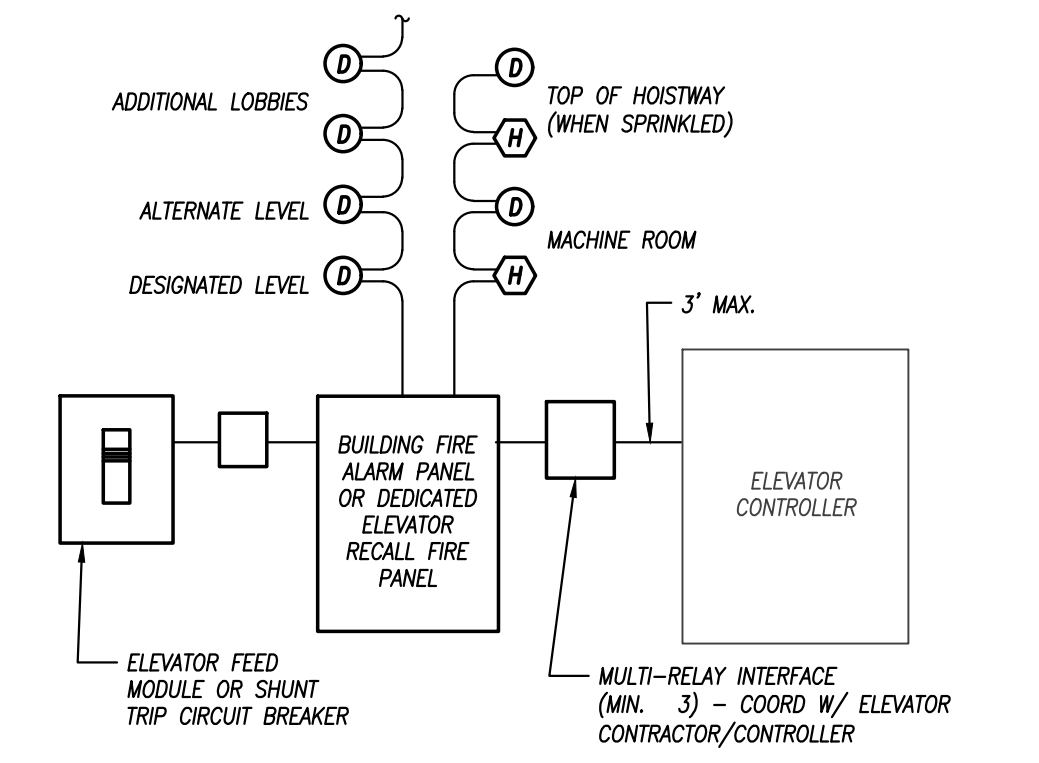
REMARKS:

1. CAPACITIES AND AIRFLOWS ARE MANUFACTURER'S VALUES AT RATED CONDITIONS, NOT ACTUAL OPERATING CONDITIONS.
2. INDOOR UNIT IS POWERED BY OUTDOOR UNIT. COORDINATE WITH ELECTRICAL CONTRACTOR FOR CONNECTIONS.
3. PROVIDE WITH INTEGRAL CONDENSATE PUMP AND CASSETTE CEILING PANEL.
4. PROVIDE WITH WIRED WALL MOUNTED THERMOSTAT / CONTROLLER.



### LABELING DETAIL

NOT TO SCALE



THE SEQUENCE OF OPERATION FOR ELEVATOR RECALL AND SHUTDOWN SHALL BE AS FOLLOWS:

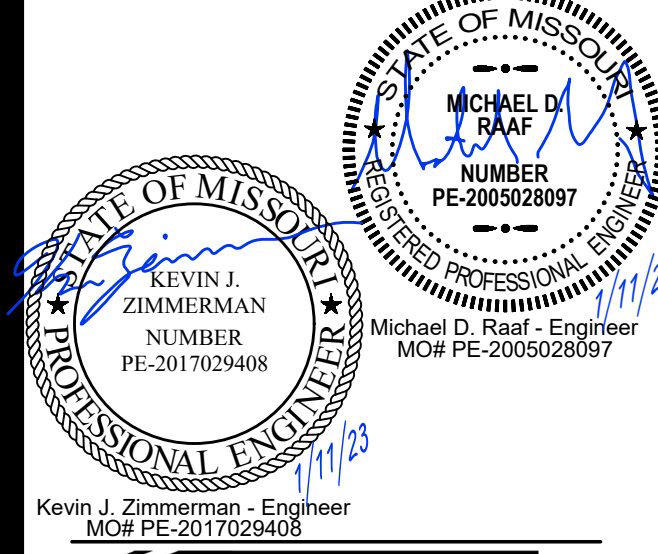
THE ACTIVATION OF SMOKE DETECTORS WITH THE ELEVATOR EQUIPMENT ROOM, ELEVATOR SHAFT OR THE ELEVATOR LOBBIES SHALL INITIATE ELEVATOR RECALL.

THE ACTIVATION OF THE HEAT DETECTOR WITHIN THE ELEVATOR EQUIPMENT ROOM OR SHAFT SHALL SIGNAL THE SHUNT TRIP CIRCUIT BREAKERS SERVING THE ELEVATOR TO OPEN. THE CONTRACTOR SHALL FURNISH AND INSTALL ANY RELAYS AND ASSOCIATED CONDUIT AND WIRE AS REQUIRED TO ACTIVATE THE COIL IN THE SHUNT TRIP CIRCUIT BREAKER SERVING THE ELEVATOR CONTROLLER.

### ELEVATOR RECALL SYSTEM DETAIL

NOT TO SCALE

STATE OF MISSOURI  
MIKE PARSON,  
GOVERNOR



Kevin J. Zimmerman - Engineer  
MO# PE-2017029408

Michael D. Raaf - Engineer  
MO# PE-2005028097

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State of Missouri  
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WESTERN RECEPTION,  
DIAGNOSTIC AND  
CORRECTIONAL CENTER  
ST. JOSEPH, MO

STATE #: C2224-01  
SITE #: 7012  
FACILITY #: 9327012035

REVISION:  
DATE: \_\_\_\_\_  
REVISION:  
DATE: \_\_\_\_\_  
REVISION:  
DATE: \_\_\_\_\_

CAD DWG FILE:  
DRAWN BY:  
CHECKED BY:  
DESIGNED BY: KZ / MR

SHEET TITLE:  
MEP - SCHEDULES  
AND DETAILS

SHEET NUMBER:

# ME.01

SHEET 6 OF 9  
ISSUE DATE: 1/11/23



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**GENERAL HVAC NOTES**

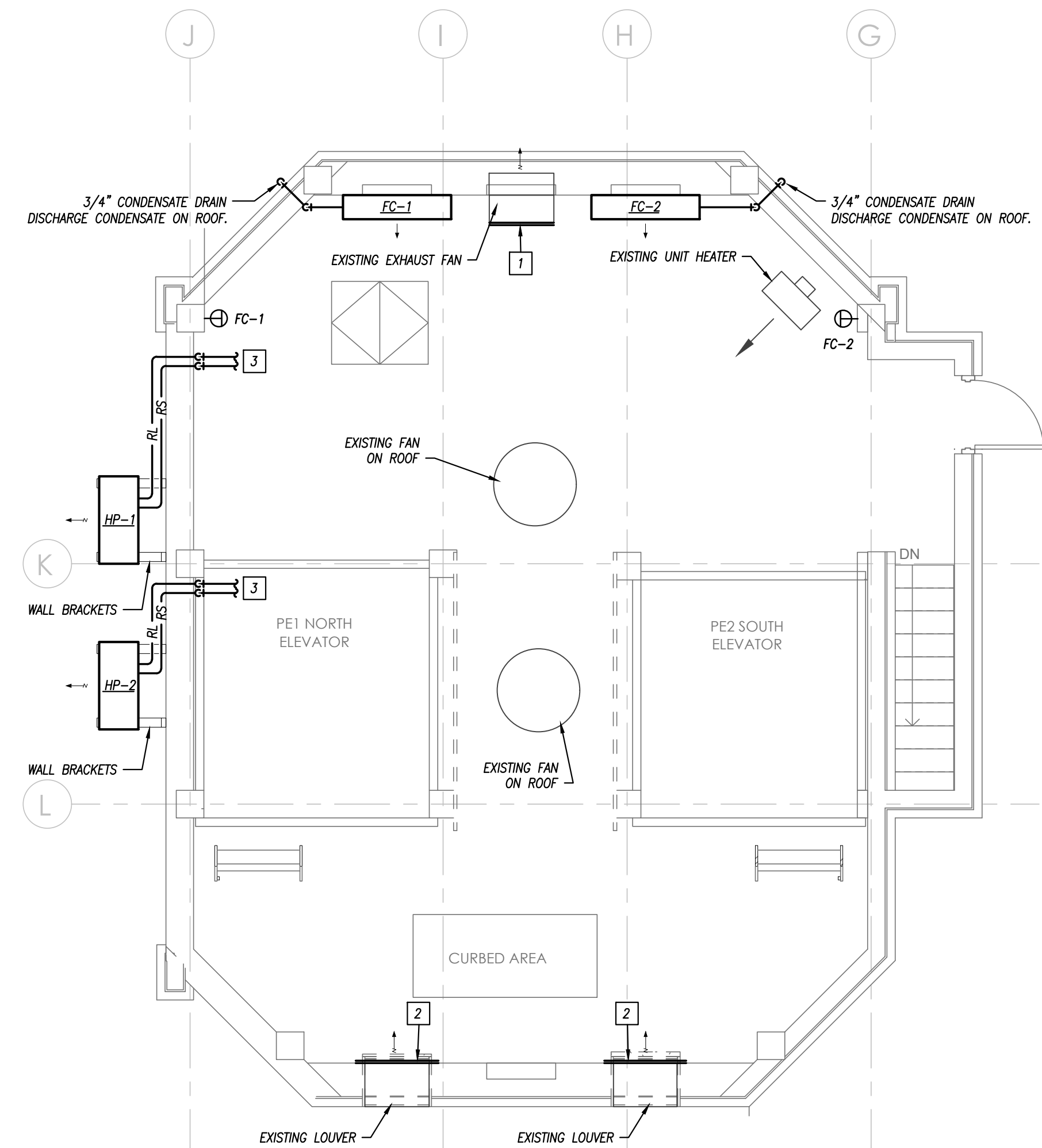
1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.

**HVAC PLAN KEYED NOTES**

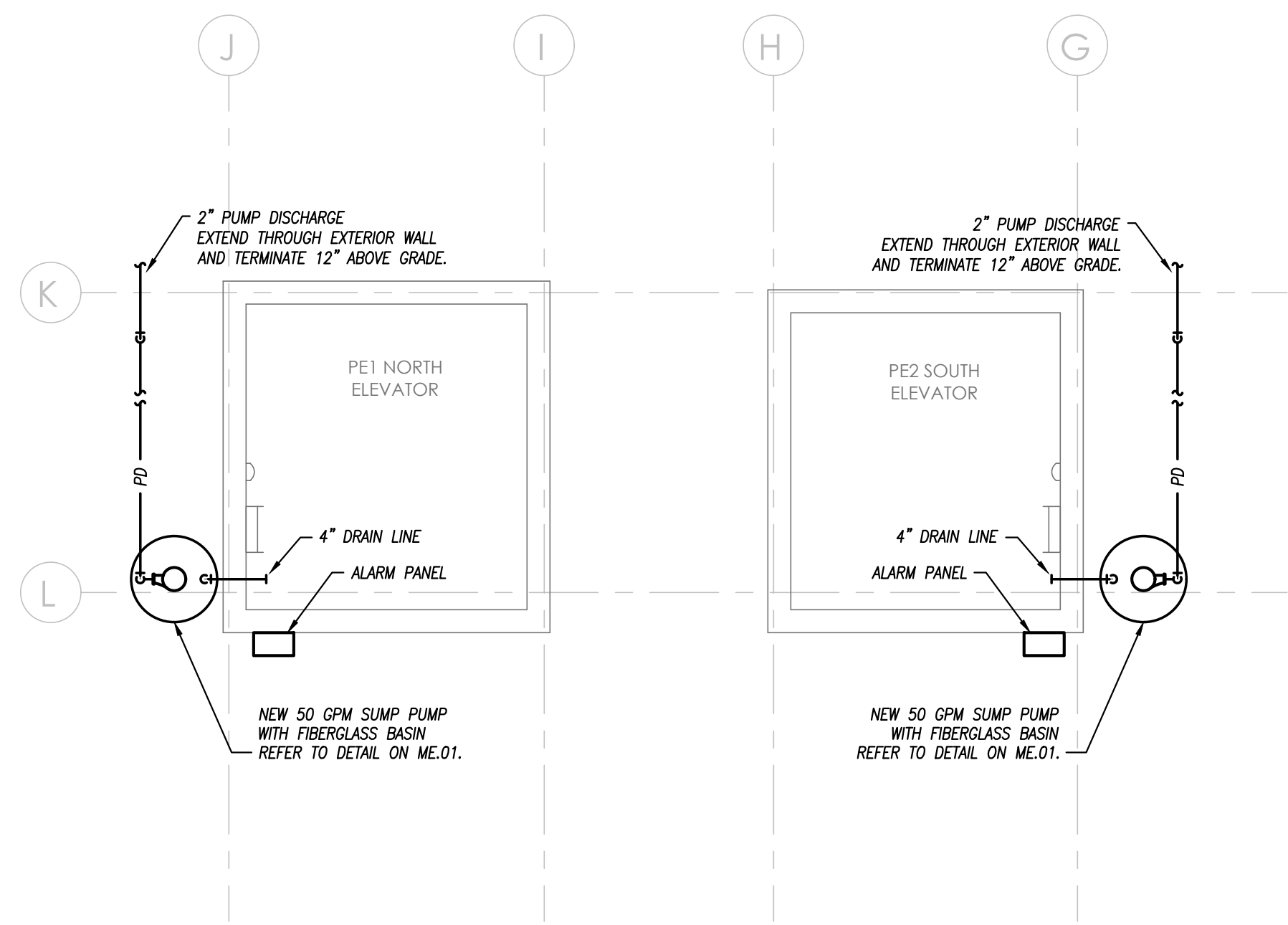
- 1. INSTALL INSULATED METAL PANEL TO BLANK-OFF EXISTING EXHAUST FAN. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
- 2. INSTALL INSULATED METAL PANEL TO BLANK-OFF EXISTING LOUVER. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
- 3. ROUTE REFRIGERANT PIPING FROM OUTDOOR HEAT PUMP UNIT TO INDOOR FAN COIL UNIT. PROVIDE PROPER PIPING SUPPORT. REFER TO DETAILS.

**GENERAL PLUMBING NOTES**

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.



**PENT HOUSE - FLOOR PLAN - MECH./PLUMB.**  
1/4" = 1'-0"



**PIT - FLOOR PLAN - MECH./PLUMB.**  
1/4" = 1'-0"



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| DATE:     | _____ |

CAD DWG FILE:  
DRAWN BY:  
CHECKED BY:  
DESIGNED BY: KZ / MR

SHEET TITLE:  
**MECHANICAL/  
PLUMBING -  
FLOOR PLANS**

SHEET NUMBER:

**M1.01**

SHEET 7 OF 9  
ISSUE DATE: 1/11/23



H

G

F

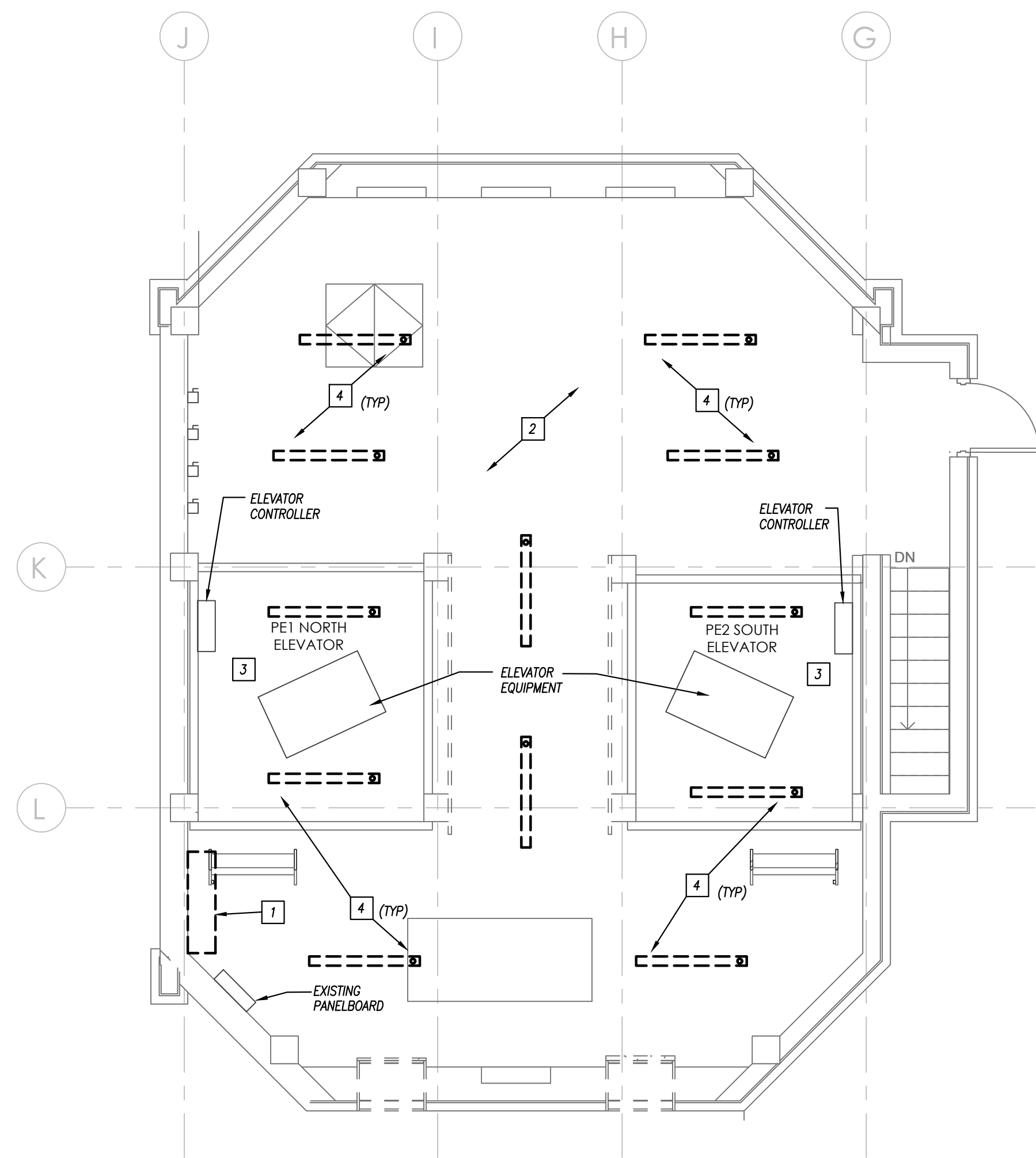
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D

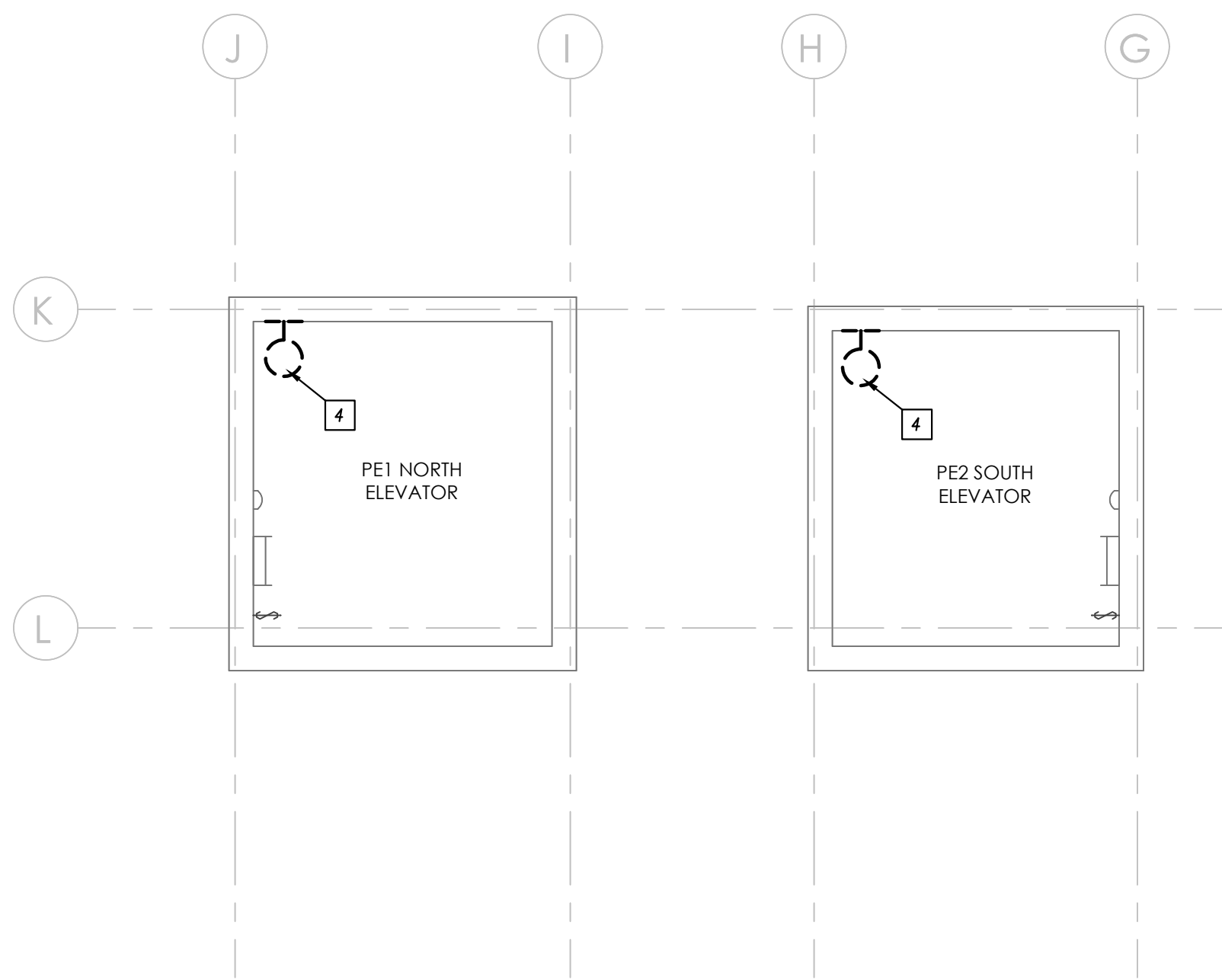
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B

A



**PENT HOUSE - FLOOR PLAN - ELECTRICAL**  
1/4" = 1'-0"



**PIT - FLOOR PLAN - ELECTRICAL**  
1/4" = 1'-0"

**DEMOLITION NOTES**

1. ALL WORK SHOWN DARK AND DASHED IS TO BE DEMOLISHED. WORK SHOWN LIGHT IS EXISTING TO REMAIN.
2. REFER TO ARCHITECTURAL PLANS FOR FURTHER EXTENT OF DEMOLITION REQUIREMENTS.
3. COORDINATE ALL DEMOLITION WORK WITH OWNER.
4. MAINTAIN ALL EXISTING DEVICES, EQUIPMENT, ASSOCIATED CIRCUITS ETC. SHOWN AS EXISTING TO REMAIN OR OTHERWISE UNRELATED TO THE SCOPE OF THE PROJECT IN WORKING ORDER. WHERE REMOVAL OF EXISTING WIRING INTERRUPTS ELECTRICAL CONTINUITY OR CIRCUITS WHICH ARE TO REMAIN IN USE, FURNISH AND INSTALL ALL REQUIRED WIRE, CONDUIT, JUNCTION BOXES, ETC. TO ENSURE CONTINUED ELECTRICAL CONTINUITY.
5. CONTRACTOR SHALL REMOVE LAY-IN CEILING, LIGHT FIXTURES, ETC. AS REQUIRED FOR CONSTRUCTION WHERE NEEDED PRIOR TO DEMOLITION AND REPLACE SAME AFTER CONSTRUCTION. EXISTING CONDUITS ABOVE CEILING SHALL BE RELOCATED AND/OR TEMPORARILY REMOVED TO FACILITATE THE INSTALLATION OF NEW EQUIPMENT.
6. THE OWNER SHALL REMOVE ALL ITEMS THEY DESIRED TO SALVAGE PRIOR TO CONSTRUCTION BEGINNING.
7. NOTES AND DRAWINGS ARE BASED UPON A FIELD EXAMINATION OF THE SITE AND MAY NOT INDICATE ALL ITEMS. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE SITE AND THE SCOPE OF WORK FOR THE CONTRACT PRIOR TO BID. ANY EXISTING CONDITION WHICH IS APPARENT OR COULD BE REASONABLY INFERRED FROM A VISIT TO THE SITE SHALL NOT BE THE BASIS FOR A CHANGE IN THE CONTRACT AMOUNT.
8. REFER TO NEW WORK PLANS FOR ANY ITEMS THAT MAY REQUIRE RELOCATION AFTER DEMOLITION.
9. PROPERLY DISPOSE OF ALL DEMOLISHED ITEMS OFF SITE.
10. REMOVE ALL MISCELLANEOUS CONDUITS, PIPES, ETC. THOUGH NOT SPECIFICALLY SHOWN ON PLAN, THAT ARE EITHER UNUSED OR WILL BECOME UNUSED DUE DEMOLITION ACTIVITIES, IN ORDER TO PROVIDE A "CLEAN" SPACE FOR THE OWNER.
11. PROTECT ALL EXISTING SURFACES AND EQUIPMENT DURING CONSTRUCTION. EXISTING ITEMS TO REMAIN SHALL BE ADEQUATELY PROTECTED FROM DEMOLITION AND NEW CONSTRUCTION WORK, AS REQUIRED. ANY ITEMS DAMAGED OR MARRED SHALL BE ADEQUATELY CLEANED OR REPLACED TO THE OWNER'S SATISFACTION TO ORIGINAL CONDITION BEFORE CONSTRUCTION.
12. PATCH ANY HOLES IN STRUCTURE CREATED BY REMOVAL OF DUCTWORK, CONDUITS, PIPES, ETC.
13. REMOVE ALL ITEMS SHOWN IN WALLS TO BE DEMOLISHED. ALL ELECTRICAL CONDUIT AND WIRING SHALL BE REMOVED BACK TO PANELBOARDS AND PROPERLY TERMINATED.

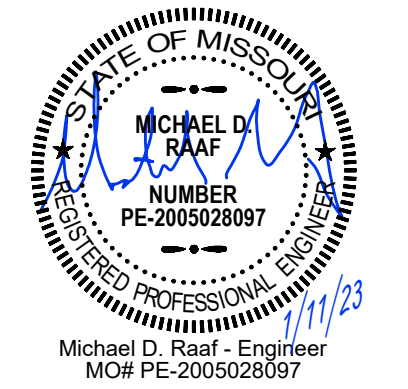
**GEN. RENOVATION NOTES**

1. SAWCUT GRADE FLOOR SLABS TO INSTALL NEW PIPING, MECHANICAL SYSTEMS, ELECTRICAL FLOOR BOXES AND ALL ASSOCIATED CONDUIT, ETC. PATCH FLOOR TO MAKE LIKE NEW AFTER INSTALLATION. TAKE CARE TO LOCATE EXISTING CONDUIT, ETC. AND AVOID CUTTING EXISTING CONDUITS BY NOT OVER-CUTTING SLAB DEPTH.
2. SAWCUT AND CORE DRILL OPENINGS AS REQUIRED FOR ABOVE GRADE SLAB PENETRATIONS. X-RAY SLABS TO ASCERTAIN STEEL AND EXISTING CONDUIT PENETRATIONS PRIOR TO CUTTING. VERIFY OPENINGS WITH STRUCTURAL ENGINEER PRIOR TO CUTTING.
3. HOMERUN CIRCUITS TO 20 AMP, SINGLE POLE BREAKERS IN PANELBOARDS INDICATED. UTILIZE SPARE BREAKERS MADE AVAILABLE BY DEMOLITION, IF NO SPARE BREAKER IS AVAILABLE, PROVIDE NEW BREAKER.
4. EXISTING CIRCUITING MAY BE RE-USED WHERE POSSIBLE.
5. CONCEAL NEW CIRCUITING IN WALLS WHERE POSSIBLE. FOR NEW DEVICES INSTALLED ON EXISTING SOLID WALLS, CONCEAL CIRCUITING IN WIREMOLD. COORDINATE FINISH AND GENERAL ROUTING OF WIREMOLD WITH ARCHITECT TO BE AS CONCEALED AND/OR ROUTED IN A NEAT AND ORGANIZED CONSISTENT MANNER.
6. ALL LIGHTING FIXTURES THAT ARE RELOCATED OR OTHERWISE AFFECTED BY THE SCOPE OF WORK SHALL BE CLEANED AND RELAMPED.

**DEMOLITION PLAN KEYED NOTES**

1. REMOVE AND REPLACE EXISTING DISTRIBUTION PANEL VERIFY EXISTING SIZE AND NUMBER PANEL AND FEEDER CIRCUIT BREAKERS. RECONNECT TO EXISTING FEEDER AND BRANCH CIRCUITS/FEEDERS.
2. DISCONNECT AND REMOVE CONDUIT, WIRE AND ASSOCIATED ELECTRICAL TO EQUIPMENT BEING REMOVED AND NO LONGER REQUIRED TO REMAIN.
3. COORDINATE ANY MISC. ELECTRICAL DEMO REQUIRED WITH ELEVATOR CONTRACTOR.
4. REMOVE AND REPLACE EXISTING LIGHT FIXTURE. REFER TO NEW WORK.

STATE OF MISSOURI  
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DATE: \_\_\_\_\_

CAD DWG FILE:  
DRAWN BY:  
CHECKED BY:  
DESIGNED BY: KZ / MR

SHEET TITLE:  
**ELECTRICAL -  
DEMOLITION FLOOR  
PLAN**

SHEET NUMBER:

**E0.01**

SHEET 8 OF 9  
ISSUE DATE: 1/11/23





### DISTRIBUTION PANELBOARD SCHEDULE

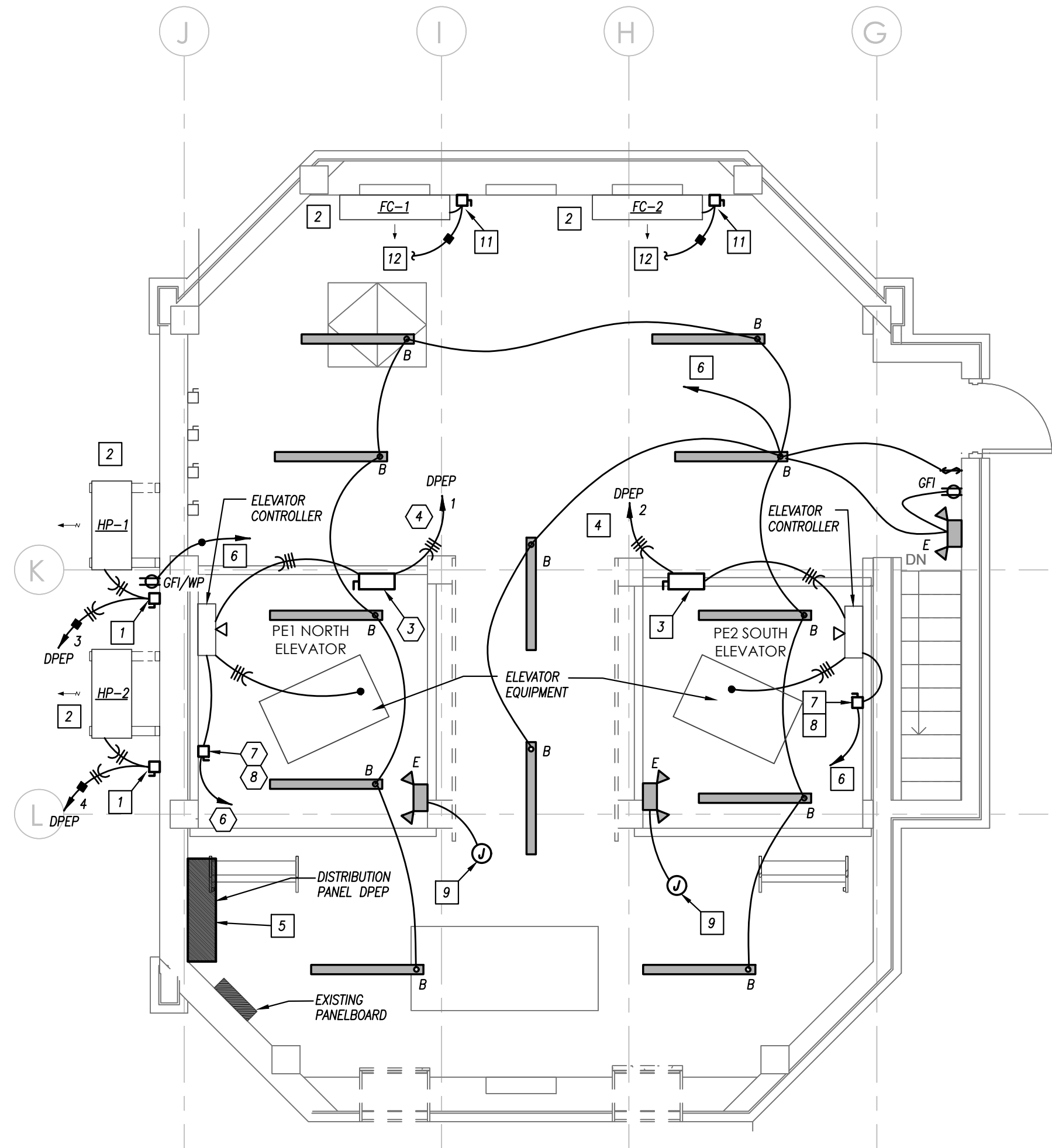
| PANEL DESIGNATION   |                     | BUS AMPS: 400          |      | VOLTAGE: 208/120   |      | MOUNTING: SURFACE            |            |                |
|---------------------|---------------------|------------------------|------|--------------------|------|------------------------------|------------|----------------|
| DPEP                |                     | MAIN BREAKER AMPS: MLO |      | PHASE WIRE: 3Ø, 4W |      | LOCATION: ELEVATOR PENTHOUSE |            |                |
| CIRCUIT NO.         |                     | CIRCUIT BREAKER        |      | FEEDER             |      |                              |            |                |
| CIRCUIT DESIGNATION |                     | KVA                    | POLE | FRAME              | TRIP | SETS                         | # OF WIRES |                |
|                     |                     |                        |      |                    |      |                              | SIZE       |                |
|                     |                     |                        |      |                    |      |                              | GROUND     |                |
|                     |                     |                        |      |                    |      |                              | CONDUIT    |                |
| 1                   | ELEVATOR PE 1 NORTH | 17.5                   | 3    | 200                | 200  | 1                            | 3          | # 3/0 # 3/0 2  |
| 2                   | ELEVATOR PE 2 SOUTH | 17.5                   | 3    | 200                | 200  | 1                            | 3          | # 3/0 # 3/0 2  |
| 3                   | HEAT PUMP HP-1      | 3.2                    | 2    | 30                 | 25   | 1                            | 2          | # 10 # 12 3/4" |
| 4                   | HEAT PUMP HP-2      | 3.2                    | 2    | 30                 | 25   | 1                            | 2          | # 10 # 12 3/4" |
| 5                   | EXHAUST FAN         | 4.0                    | 3    | 30                 | 25   | 1                            | 3          | # 10 # 12 3/4" |
| 6                   | EXHAUST FAN         | 4.0                    | 3    | 30                 | 25   | 1                            | 3          | # 10 # 12 3/4" |
| 7                   | EXHAUST FAN         | 4.0                    | 3    | 30                 | 25   | 1                            | 3          | # 10 # 12 3/4" |
| 8                   | EXHAUST FAN         | 4.0                    | 3    | 30                 | 20   | 1                            | 3          | # 10 # 12 3/4" |
| 9                   | EXHAUST FAN         | 4.0                    | 3    | 30                 | 20   | 1                            | 3          | # 10 # 12 3/4" |
| 10                  | SPARE               | 0.0                    | 3    | 30                 | 20   | -                            | -          | - - -          |
| 11                  | SPARE               | 0.0                    | 3    | 30                 | 20   | -                            | -          | - - -          |
| 12                  | SPARE               | 0.0                    | 3    | 60                 | -    | -                            | -          | - - -          |
| 13                  | SPARE               | 0.0                    | 3    | 60                 | -    | -                            | -          | - - -          |

| PANELBOARD SIZING LOAD       |                |                              |                |
|------------------------------|----------------|------------------------------|----------------|
| LOAD DESCRIPTION             | CONNECTED LOAD | DEMAND FACTOR                | CODE MIN. (VA) |
| LIGHTS                       | 0.0            | 1.25                         | 0.0            |
| RECEPTACLES                  | 0.0            | 10KVA + 50% REST             | 0.0            |
| MOTORS                       | 55.0           | 1.25 x LARGEST + SUM OF REST | 59.4           |
| AIR CONDITIONING             | 6.4            | 1.00                         | 6.4            |
| SPACE HEATING                | 0.0            | 0.00                         | 0.0            |
| HEAT PUMP                    | 0.0            | 1.00                         | 0.0            |
| CONTINUOUS                   | 0.0            | 1.25                         | 0.0            |
| NON-CONTINUOUS               | 0.0            | 1.00                         | 0.0            |
| TOTAL CONNECTED LOAD (VA):   | 61.4           | SIZING LOAD (VA):            | 65.8           |
| TOTAL CONNECTED LOAD (AMPS): | 170.5          | SIZING LOAD (AMPS):          | 182.7          |

**REMARKS:**

- EATON POW-R-LINE 4X PANELBOARD OR EQUAL.
- SINGLE SECTION, 44" WIDE PANELBOARD.

• EXISTING EQUIPMENT TO BE RE-REF. VERIFY EXISTING BREAKER SIZES.



**PENT HOUSE - FLOOR PLAN - ELECTRICAL**  
1/4" = 1'-0"

### LIGHT FIXTURE SCHEDULE

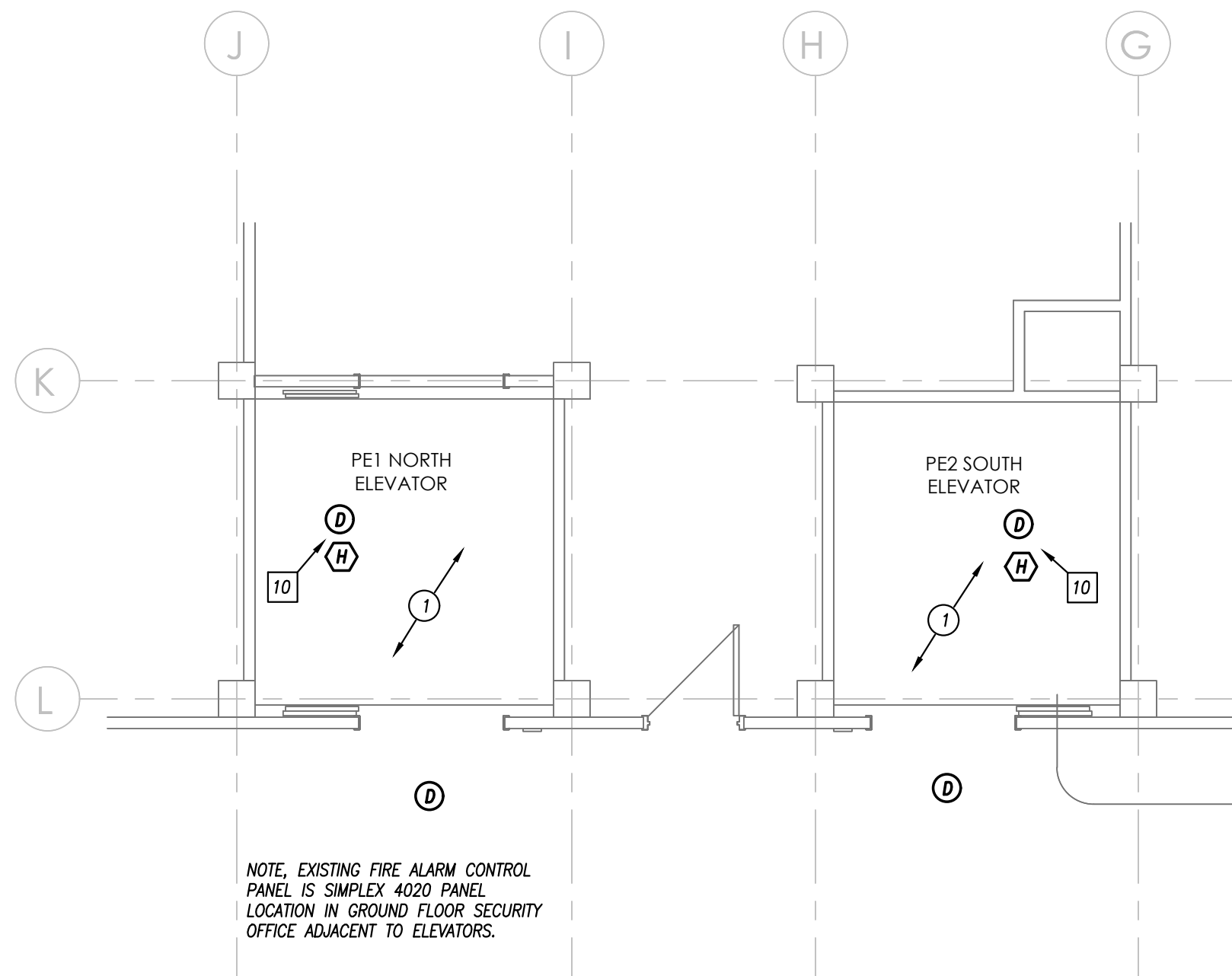
| FIXTURE TYPE | MANUFACTURER | CATALOG NUMBER | DESCRIPTION  | LED MODULE / DRIVER |             |        |     |       |         | REMARKS |         |
|--------------|--------------|----------------|--|---------------------|-------------|--------|-----|-------|---------|---------|---------|
|              |              |                |  | ID                  | WATTS       | LUMENS | CRI | CCT   | DIMMING |         | VOLTAGE |
| A            | WILLIAMS     | SERIES 75S     | 4'-0" LONG COMMERCIAL-GRADE STRIP FIXTURE WITH SQUARE LENS. SURFACE MOUNT. WHITE FINISH.   | L65                 | 42          | 6500   | 80  | 3500K | NO      | 277/120 | 1       |
| B            | WILLIAMS     | SERIES 75S     | 4'-0" LONG COMMERCIAL-GRADE STRIP FIXTURE WITH SQUARE LENS. CHAIN MOUNT FROM CEILING AT 8'-6" A.F.F. WHITE FINISH.   | L65                 | 42          | 6500   | 80  | 3500K | NO      | 277/120 | 1       |
| E            | DUAL-LITE    | EV SERIES      | LOW-PROFILE EMERGENCY LIGHTING UNIT. FLAME-RATED, UV-STABLE THERMOPLASTIC HOUSING. TWO (2) SEMI-RECESSED, ADJUSTABLE "EYEBALL" HEADS WITH GLASS LENS. WHITE FINISH. MAINTENANCE-FREE BATTERY FOR 90 MINUTE OPERATION OF LAMPS. INTEGRAL TEST SWITCH AND AC-ON INDICATOR. | TWO (2)             | 1.1 WATT 1W | -      | -   | -     | -       | 277/120 | 1       |

**REMARKS:**

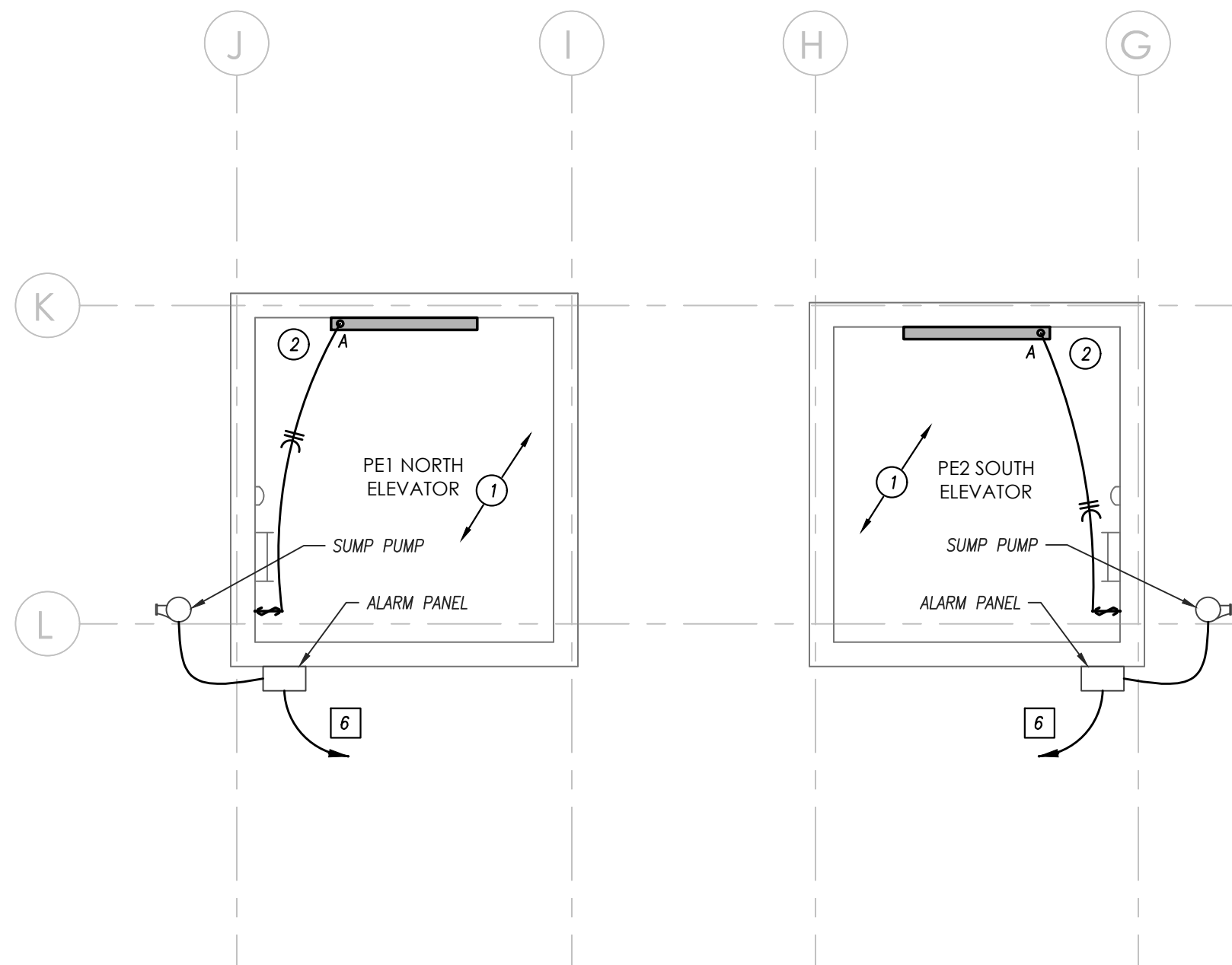
- FURNISH WITH AND INSTALL ALL NECESSARY HARDWARE AND MOUNTING BRACKETS.

**GENERAL NOTES (APPLICABLE TO ALL FIXTURES):**

- EQUALS ARE ACCEPTABLE ON ALL LIGHT FIXTURES UNLESS SPECIFICALLY NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR APPROVED EQUAL FIXTURE MANUFACTURERS.
- ALL DRIVERS ARE INTEGRAL TO FIXTURE UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR ADDITIONAL FIXTURE/DRIVER/BALLAST REQUIREMENTS.
- ALL FIXTURES WITH PAINTED METAL PARTS SHALL BE PAINTED AFTER FABRICATION.
- LUMENS LISTED FOR LED FIXTURES ARE GENERALLY DELIVERED LUMENS UNLESS NOTED OTHERWISE.



**FIRST-FIFTH FLOOR - ELECTRICAL**  
1/4" = 1'-0"



**PIT - FLOOR PLAN - ELECTRICAL**  
1/4" = 1'-0"

### GENERAL LIGHTING NOTES

- REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
- LIGHT FIXTURES INDICATED AS EMERGENCY FIXTURES ARE TO FUNCTION AS NIGHT LIGHTS UNLESS SPECIFICALLY SHOWN SWITCHED.
- ALL CIRCUITING SHOWN ON THIS PLAN IS DIAGRAMMATIC.
  - ALL FIXTURES SHALL BE FED FROM JUNCTION BOXES WITH LIGHT FIXTURE WHIPS (<E>). DAISY-CHAINING OF FIXTURES IS NOT ALLOWED.
  - SWITCH BOX LOCATIONS SHALL BE WIRED SO THAT A NEUTRAL WIRE IS AVAILABLE AT THE SWITCH BOX LOCATION, EITHER IN THE BOX OR AVAILABLE TO BE ADDED VIA RACEWAY OR AN ACCESSIBLE WALL CAVITY.
  - WALL SWITCHES FOR SEPARATE LOAD TYPES (EM/NORMAL, 120/277V, ETC.) SHALL NOT BE IN A SINGLE BOX.
  - REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

### LIGHTING PLAN KEYED NOTES

- INSTALL DEVICES AND LIGHTS OUTSIDE OF AREA OF ELEVATOR TRAVEL.
- INSTALL NEW LIGHTING AND CIRCUITING AS SHOWN. EXISTING CONDUIT MAY BE REUSED TO THE EXTENT POSSIBLE.

### GENERAL POWER NOTES

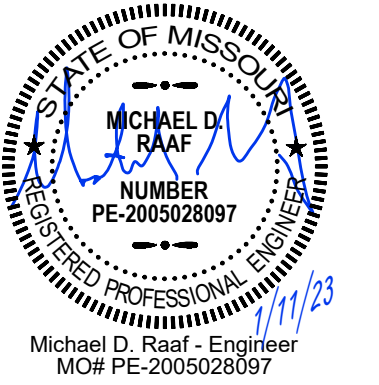
- REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
- COORDINATE EXACT NEMA CONFIGURATIONS OF RECEPTACLES SERVING EQUIPMENT WITH EXACT EQUIPMENT BEING FURNISHED.
- REFER TO THE SPECIFICATIONS FOR ADDITIONAL LOCATIONS/REQUIREMENTS FOR RECEPTACLES, INCLUDING GFCI, AND WEATHER-RESISTANT RECEPTACLES.
- EXACT MECHANICAL EQUIPMENT LOCATIONS MAY NOT BE SHOWN FOR CLARITY. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, DUCT DETECTORS, ETC. WITH MECHANICAL DRAWINGS AND CONTRACTOR.
- COORDINATE EXACT LOCATIONS OF SMOKE DETECTORS WITH CEILING FANS, HVAC DIFFUSERS, SPRINKLER HEADS, ETC. PER NFPA REQUIREMENTS.

### POWER PLAN KEYED NOTES

- 30 AMP, 2-POLE HEAVY-DUTY, NON-FUSED DISCONNECT SWITCH IN 3R ENCLOSURE.
- COORDINATE EXACT LOCATION ON MECHANICAL EQUIPMENT IN THE FIELD.
- EATON BUSSMANN SERIES (OR EQUAL) POWER DISCONNECT MODULE SWITCH ELEVATOR DISCONNECT SWITCH. 200 AMP, 208V, 3-PHASE. FUSE AS DIRECTED BY ELEVATOR SUPPLIER. PROVIDE WITH SHUNT-TRIP MEANS AND AUXILIARY CONTACTS FOR RECALL AND SHUTDOWN. EQUIVALENT BY SQUARE D OR SIEMENS. INSTALL FROM SUITABLE STEEL UNISTRUT SUPPORTS.
- PROVIDE NEW FEEDER TO ELEVATOR FROM DISTRIBUTION PANEL NOTED.
- NEW DISTRIBUTION PANEL. VERIFY EXISTING SIZE AND NUMBER PANEL AND FEEDER CIRCUIT BREAKERS. RECONNECT TO EXISTING FEEDER AND BRANCH CIRCUITS/FEEDERS.
- TO EXISTING 20 AMP, 1-POLE CIRCUIT BREAKER IN EXISTING 120/208V PANELBOARD THIS ROOM.
- 30 AMP, 1-POLE FUSED DISCONNECT SWITCH IN NEMA 1 ENCLOSURE. FUSE AT 15 AMPS.
- CIRCUIT FOR ELEVATOR CAB LIGHTING AND CONTROLS.
- CONNECT TO EXISTING UNSWITCHED LIGHTING CIRCUIT THIS AREA.
- INSTALL AT TOP OF HOISTWAY OUTSIDE OF ELEVATOR TRAVEL.
- 30 AMP, 2-POLE HEAVY-DUTY, NON-FUSED DISCONNECT SWITCH IN NEMA 1 ENCLOSURE.
- WIRE FROM RESPECTIVELY HEAT PUMP CIRCUIT.

### ALTERNATE #3 KEYED NOTES

- EATON BUSSMANN SERIES (OR EQUAL) POWER DISCONNECT MODULE SWITCH ELEVATOR DISCONNECT SWITCH. 200 AMP, 208V, 3-PHASE. FUSE AS DIRECTED BY ELEVATOR SUPPLIER. PROVIDE WITH SHUNT-TRIP MEANS AND AUXILIARY CONTACTS FOR RECALL AND SHUTDOWN. EQUIVALENT BY SQUARE D OR SIEMENS. INSTALL FROM SUITABLE STEEL UNISTRUT SUPPORTS.
- PROVIDE NEW FEEDER TO ELEVATOR FROM DISTRIBUTION PANEL NOTED.
- TO EXISTING 20 AMP, 1-POLE CIRCUIT BREAKER IN EXISTING 120/208V PANELBOARD THIS ROOM.
- 30 AMP, 1-POLE FUSED DISCONNECT SWITCH IN NEMA 1 ENCLOSURE. FUSE AT 15 AMPS.
- CIRCUIT FOR ELEVATOR CAB LIGHTING AND CONTROLS.



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MEP Engineers:  
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13300 W 98th Street  
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111 Westport Plaza Dr., Ste. 600  
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State of Missouri  
Office of Administration  
Division of Facilities  
Management  
Design and Construction

WESTERN RECEPTION,  
DIAGNOSTIC AND  
CORRECTIONAL CENTER  
ST. JOSEPH, MO

STATE #: C2224-01  
SITE #: 7012  
FACILITY #: 9327012035

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

CAD DWG FILE:  
DRAWN BY:  
CHECKED BY:  
DESIGNED BY: KZ / MR

SHEET TITLE:

ELECTRICAL - FLOOR  
PLANS

SHEET NUMBER:

E1.01

SHEET 9 OF 9  
ISSUE DATE: 1/11/23

