



**CAPSTONE HOUSE
ELEVATOR CONTROLS UPGRADE
UNIVERSITY OF SOUTH CAROLINA
STATE PROJECT NO: H27-Z396/50003361-2**

**Addendum Three
March 23, 2021**

This addendum modifies the Contract Documents only in the manner and to the extent stated herein and shown on any accompanying drawings and will become a part of the Contract Documents. Except as specified or otherwise indicated by this addendum, all work shall be in accordance with the basic requirements of the Contract Documents.

GENERAL:

1. Per the Pre-Bid meeting conference call on March 2, the **Last Day for Addenda** will be **Thursday, March 25, 2021**. All questions regarding this project are to be submitted in writing to the architect via email no later than the end of the business on Friday, March 19, 2021.
The architect's email address: Keith Myhand: kmyhand@jcsarchitects.com
2. Electrical - See attached Electrical Addendum #3, dated 03/23/21 (1 page) with attached revised drawing sheet E601.

PROJECT MANUAL:

1. Section 01 1030 "Alternates":
 - a. Question - "Alternate 1 scope to replace geared traction machines does not include any electrical requirements. Are we to assume the existing electrical scope will meet the requirements of the new geared traction machines if the alternate is accepted?" *Yes. The electrical scope is the same whether the machines are replaced or the existing machines remain.*
2. Section 01 1900 "Related Work":
 - a. Question - "The specs refer to structural slabs, Structural Steel to support hoist machines, Dead-end hitch beams, support deflection criteria. The plans do not reflect new work, what is required?" *No work. The existing structural steel hoist beams are to be re-used.*
 - b. Question - "The specs refer new cab flooring; the plans call to protect and keep the existing tile. What is the flooring product we are to install?" *Protect the existing floor tile to remain.*

- c. Question – “The specs refer to Plumbing and Fire Sprinkler work. The plans do not show new sprinkler work. Are we to add the sprinkler per this spec section?” *No. The existing sprinkler piping in the Elevator Equipment Room will be painted without affecting the heads.*
 - d. Question – “The specs refer to waterproofing the pit. The plans do not reflect this work. Are we to provide waterproofing in the pits? *No.*
 - e. Question – “The specs refer to pit ladders. The plans do not reflect this work. Are we to provide?” *No. Existing to remain.*
3. Section 14 2200 “Electric Traction Modernization”, paragraph 2.8 H
- a. Question – Paragraph states “Architectural metal cladding shall wrap around leading and trailing edge of panel and return a minimum of 1/2" on rear side of leading edge of panel.” Please define the finish of all hoistway doors. *The hall doors and frames are indicated to be painted. The car doors are being replaced as specified and the finish is #4 brushed stainless steel for the car doors as indicated. The metal is to wrap around so there is no catch edge which would be unsafe and not acceptable.*

END OF ADDENDUM



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**CAPSTONE HOUSE ELEVATOR CONTROLS UPGRADES
UNIVERSITY OF SOUTH CAROLINA
COLUMBIA, SC
ELECTRICAL ITEMS - ADDENDUM NO. 3
March 23, 2021**

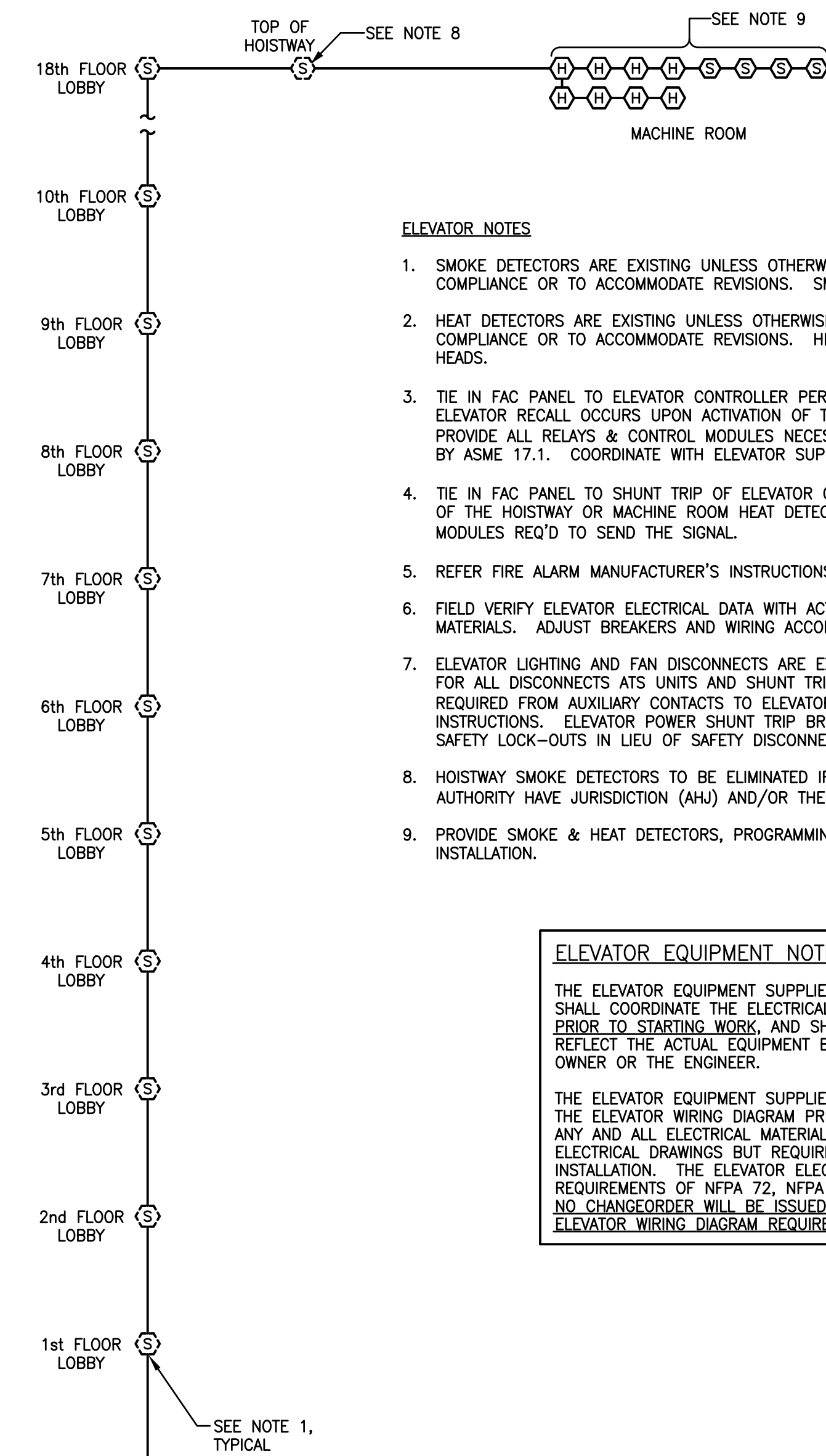
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DRAWINGS:

1. **SHEET E601 ELECTRICAL DETAILS:**

- Delete E601 and replace it with the attached E601 (added ATS sizes & ATS feeder size).

Each Bidder shall acknowledge receipt of this Addendum and all other Addenda on his bid form.



ELEVATOR NOTES

1. SMOKE DETECTORS ARE EXISTING UNLESS OTHERWISE NOTED. RELOCATE AS REQUIRED FOR CODE COMPLIANCE OR TO ACCOMMODATE REVISIONS. SMOKE DETECTORS SHALL BE 36" FROM ANY AIR VENT.
2. HEAT DETECTORS ARE EXISTING UNLESS OTHERWISE NOTED. RELOCATE AS REQUIRED FOR CODE COMPLIANCE OR TO ACCOMMODATE REVISIONS. HEAT DETECTORS SHALL BE WITHIN 24" OF SPRINKLER HEADS.
3. TIE IN FAC PANEL TO ELEVATOR CONTROLLER PER THE MANUFACTURER'S RECOMMENDATIONS SO THAT ELEVATOR RECALL OCCURS UPON ACTIVATION OF THE LOBBY, HOISTWAY, OR MACHINE ROOM DETECTORS. PROVIDE ALL RELAYS & CONTROL MODULES NECESSARY TO SEND THE ELEVATOR RECALL SIGNALS REQ'D BY ASME 17.1. COORDINATE WITH ELEVATOR SUPPLIER PRIOR TO STARTING WORK TO AVOID CONFLICTS.
4. TIE IN FAC PANEL TO SHUNT TRIP OF ELEVATOR OKT BKR AS REQ'D TO TRIP THE BKR UPON ACTIVATION OF THE HOISTWAY OR MACHINE ROOM HEAT DETECTORS. PROVIDE ALL FAC RELAYS AND CONTROL MODULES REQ'D TO SEND THE SIGNAL.
5. REFER FIRE ALARM MANUFACTURER'S INSTRUCTIONS FOR ACTUAL WIRING OF ALL FIRE ALARM DEVICES.
6. FIELD VERIFY ELEVATOR ELECTRICAL DATA WITH ACTUAL ELEVATOR SUPPLIED PRIOR TO ORDERING MATERIALS. ADJUST BREAKERS AND WIRING ACCORDINGLY.
7. ELEVATOR LIGHTING AND FAN DISCONNECTS ARE EXISTING TO BE REUSED. PROVIDE AUXILIARY CONTACTS FOR ALL DISCONNECTS AT'S UNITS AND SHUNT TRIP BREAKERS IF NOT EXISTING. PROVIDE ALL WIRING AS REQUIRED FROM AUXILIARY CONTACTS TO ELEVATOR CONTROLLERS 1-3 PER MANUFACTURER'S INSTRUCTIONS. ELEVATOR POWER SHUNT TRIP BREAKERS IN PANEL PH-DP TO BE PROVIDED WITH SAFETY LOCK-OUTS IN LIEU OF SAFETY DISCONNECT SWITCHES.
8. HOISTWAY SMOKE DETECTORS TO BE ELIMINATED IF NOT SPECIFICALLY REQUIRED BY THE LOCAL AUTHORITY HAVE JURISDICTION (AHJ) AND/OR THE ELEVATOR SUPPLIER.
9. PROVIDE SMOKE & HEAT DETECTORS, PROGRAMMING AND ALL ASSOCIATED EQUIPMENT REQUIRED FOR INSTALLATION.

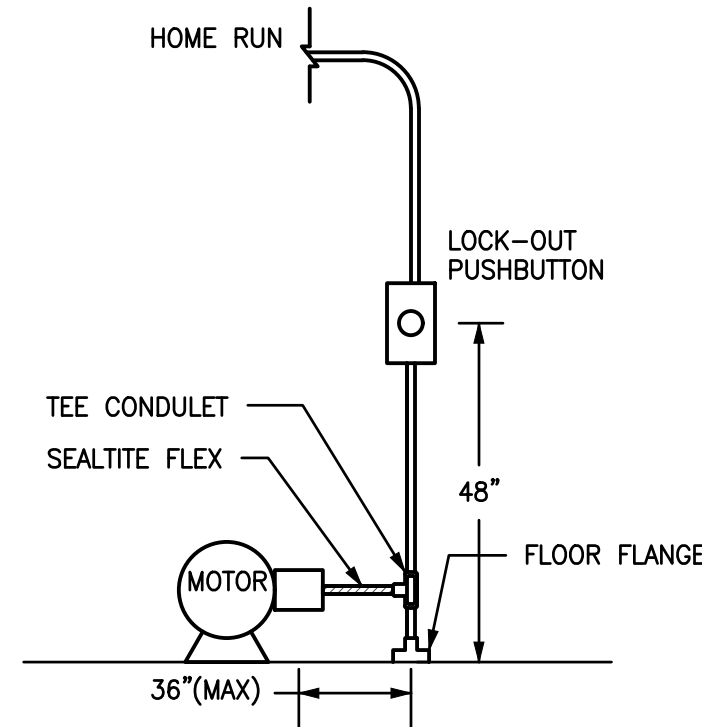
ELEVATOR EQUIPMENT NOTE:

THE ELEVATOR EQUIPMENT SUPPLIER AND THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE ELECTRICAL REQUIREMENTS OF THE ELEVATOR PRIOR TO STARTING WORK, AND SHALL REVISE THE WIRING DIAGRAM TO REFLECT THE ACTUAL EQUIPMENT BEING SUPPLIED, AT NO COST TO THE OWNER OR THE ENGINEER.

THE ELEVATOR EQUIPMENT SUPPLIER SHALL BE RESPONSIBLE FOR REVIEWING THE ELEVATOR WIRING DIAGRAM PRIOR TO SUBMITTING BID AND SHALL INCLUDE ANY AND ALL ELECTRICAL MATERIALS AND LABOR NOT INDICATED ON THE ELECTRICAL DRAWINGS BUT REQUIRED FOR A COMPLETE AND OPERABLE ELEVATOR INSTALLATION. THE ELEVATOR ELECTRICAL INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 72, NFPA 70, ASME 17.1, AND THE IBC. NO CHANGEORDER WILL BE ISSUED FOR ELECTRICAL MODIFICATIONS TO THE ELEVATOR WIRING DIAGRAM REQUIRED BY THE ELEVATOR EQUIPMENT SUPPLIER.

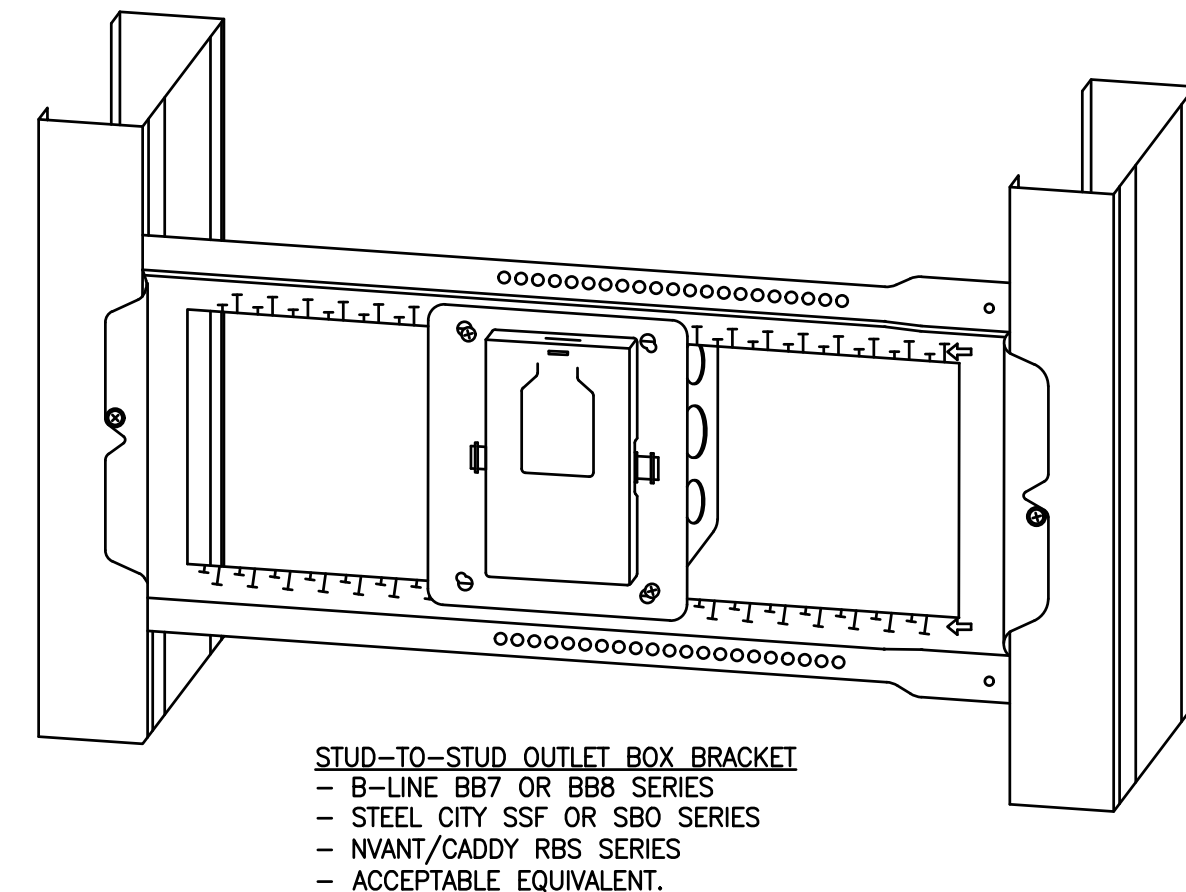
1 ELEVATOR RISER DIAGRAM

NOT TO SCALE



3 MOTOR WIRING DETAIL

NOT TO SCALE

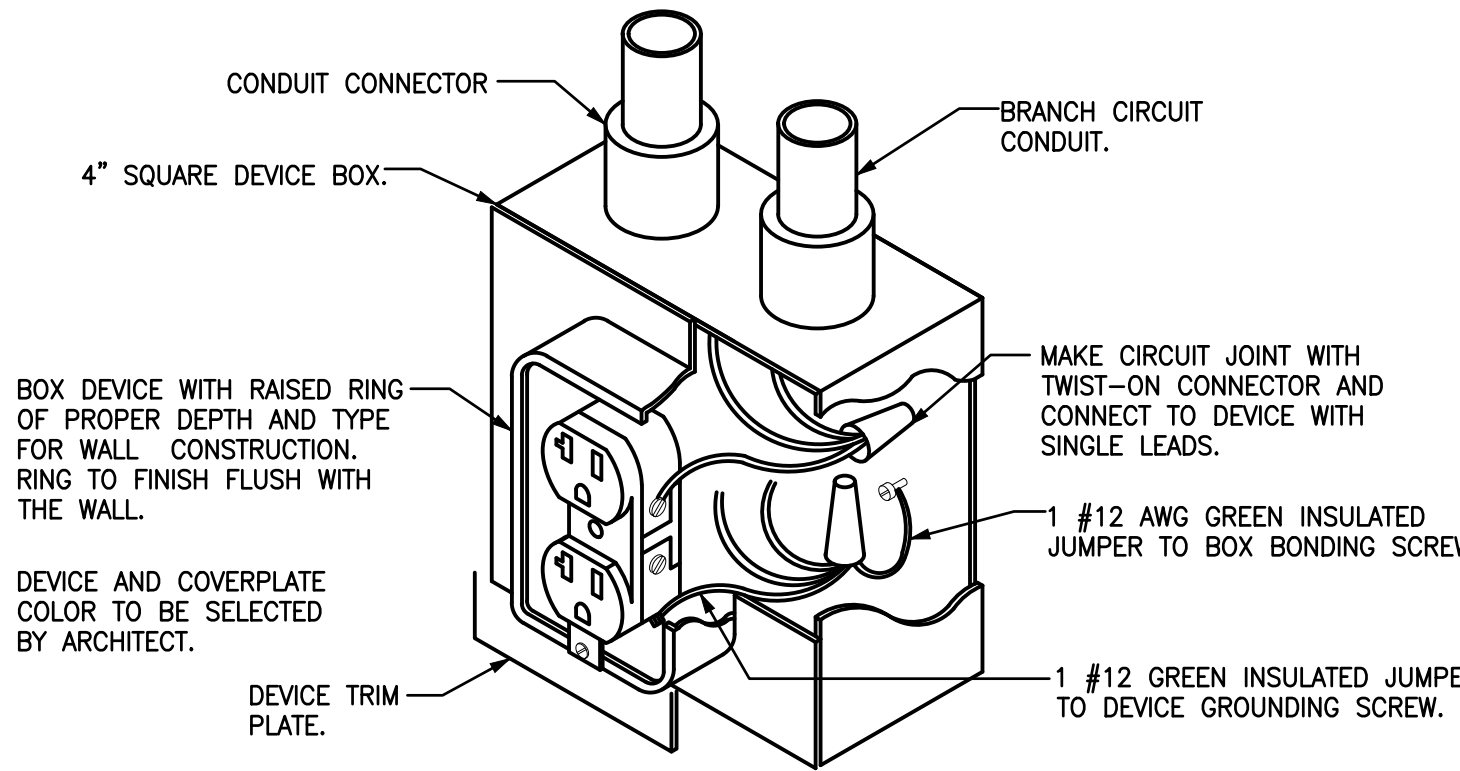


4 TYPICAL DUPLEX RECEPTACLE INSTALLATION

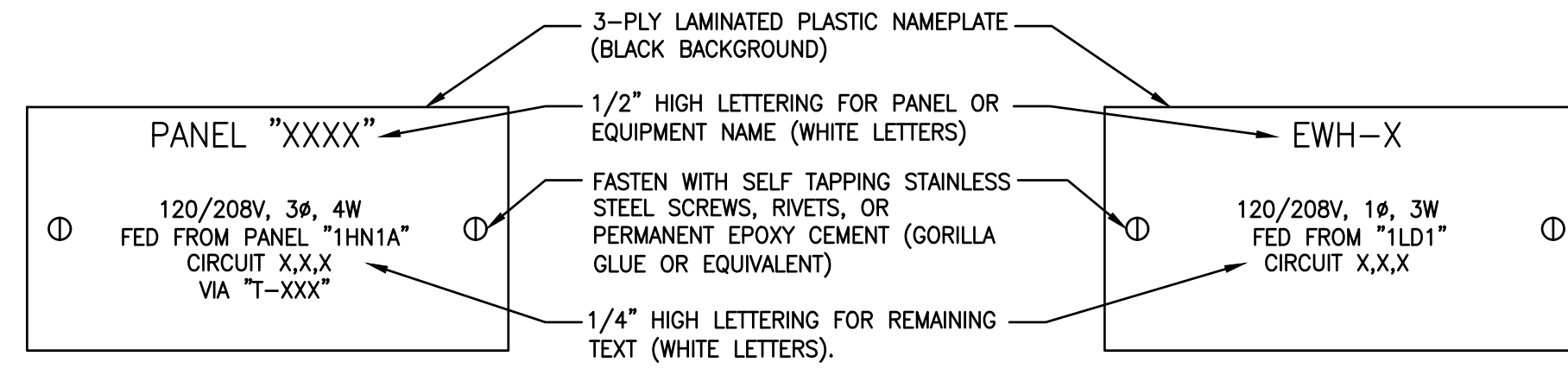
NOT TO SCALE

RECESSED BOXES IN MASONRY WALLS: SAW-CUT OPENING FOR BOX IN CENTER OF CELL OF MASONRY BLOCK, AND INSTALL BOX FLUSH WITH SURFACE OF WALL.

RECESSED BOXES IN STUD WALLS: SUPPORT BOXES FROM MORE THAN ONE SIDE BY SPANNING TWO FRAMING MEMBERS OR MOUNTING ON BRACKETS SPECIFICALLY DESIGNED FOR THE PURPOSE. BOX BRACKETS RELIANT ON SUPPORT LESS PRESSED AGAINST BACK OF OPPOSING WALL ARE NOT ACCEPTABLE.

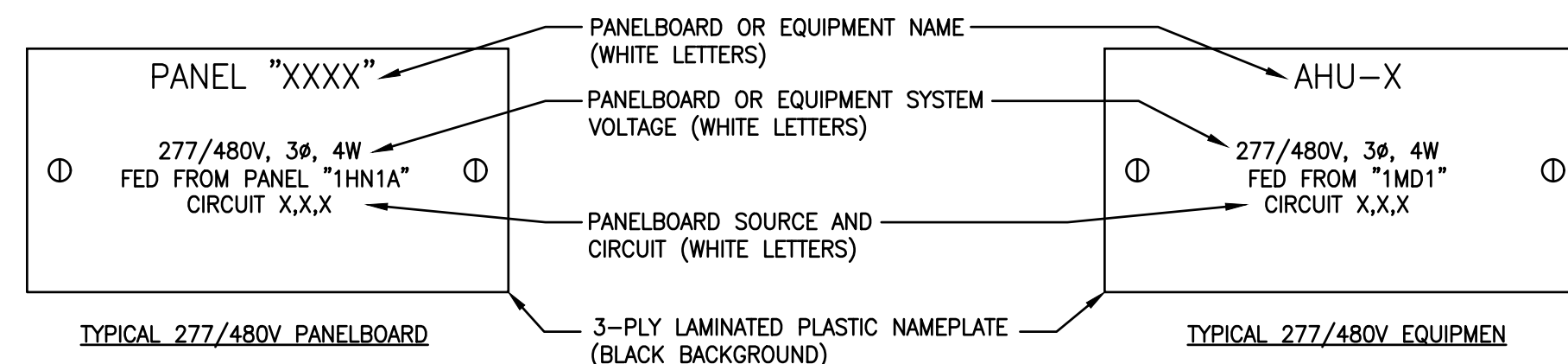


VERTICAL RECEPTACLES TO BE INSTALLED WITH GROUND PIN DOWN, UNLESS NOTED OTHERWISE. HORIZONTAL RECEPTACLES TO BE INSTALLED WITH NEUTRAL BLADE UP, UNLESS NOTED OTHERWISE.



TYPICAL 120/208V PANELBOARD

TYPICAL 120/208V EQUIPMENT



TYPICAL 277/480V PANELBOARD

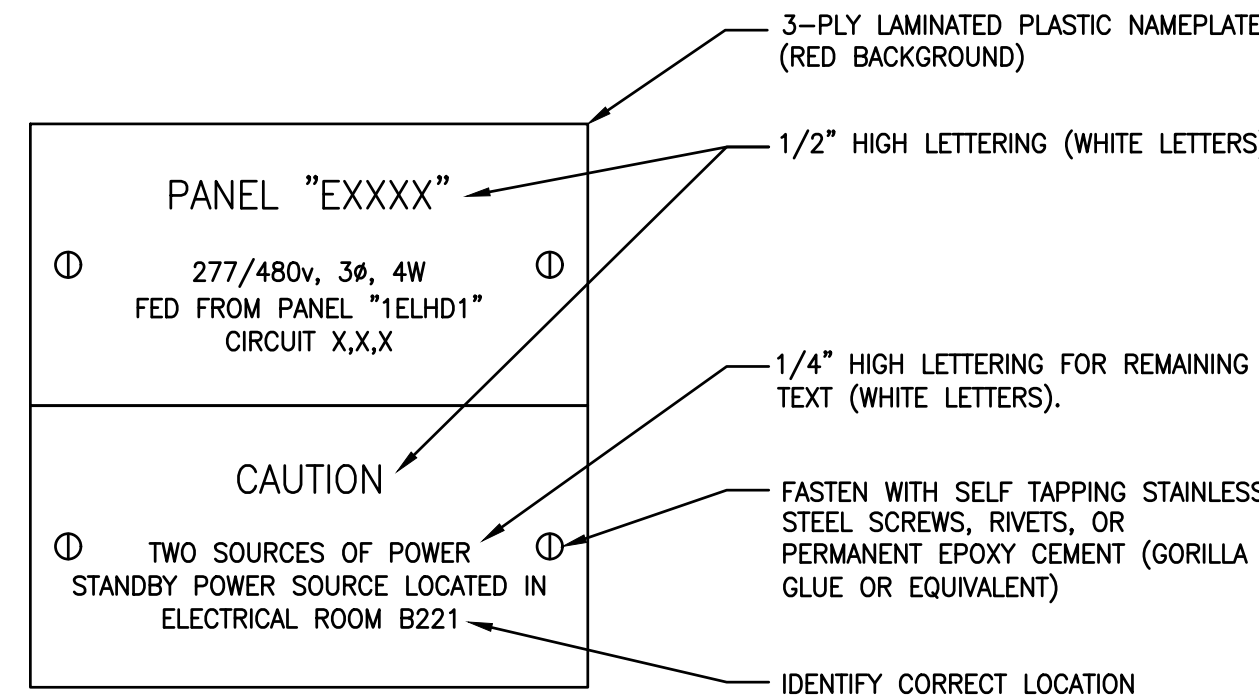
TYPICAL 277/480V EQUIPMEN

5 PANELBOARD NAMEPLATES

NOT TO SCALE -- BLACK BACKGROUND, WHITE LETTERS

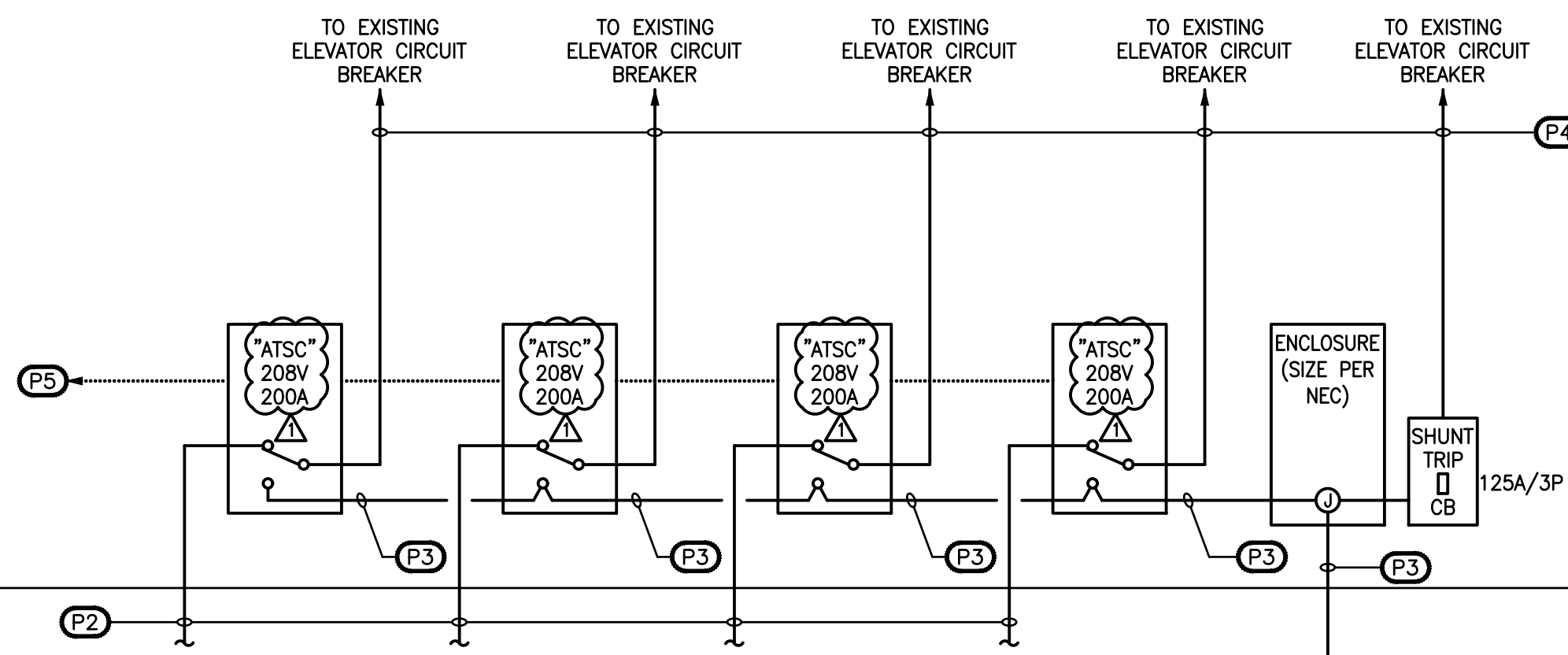
6 EQUIPMENT NAMEPLATES

NOT TO SCALE -- BLACK BACKGROUND, WHITE LETTERS



7 EMERGENCY POWER NAMEPLATE

NOT TO SCALE -- RED BACKGROUND, WHITE LETTERS



2 PARTIAL POWER RISER DIAGRAM

NOT TO SCALE

PARTIAL POWER RISER DIAGRAM KEY NOTES:

- (P1) NOT USED.
- (P2) EXISTING ELEVATOR DISCONNECT FEEDERS: RECONNECT TO NEW TRANSFER SWITCHES.
- (P3) EXISTING EMERGENCY STANDBY ELEVATOR FEEDER: 1#6G, 3#1/0, 2#GRC. SPLICE/EXTEND/REROUTE TO TRANSFER SWITCHES AS NOTED.
- (P4) EXISTING ELEVATOR CIRCUIT BREAKER FEEDERS: RECONNECT TO NEW TRANSFER SWITCHES.
- (P5) CONTROL CIRCUIT TO ELEVATOR SELECTOR PANEL LOCATED ON FIRST FLOOR, 3/4\"/>

POWER RISER DIAGRAM / PANEL SCHEDULE NOTES:

- PROVIDE ENGRAVED NAMEPLATES FOR EACH PANELBOARD, SAFETY SWITCH, ENCLOSED CIRCUIT BREAKER, TRANSFORMER, CONTACTOR, AND LIGHTING CONTROL PANEL AS INDICATED IN THE SPECIFICATIONS. ATTACH TO EQUIPMENT COVER USING METAL SCREWS, RIVETS, OR INDUSTRIAL EPOXY CEMENT. THE MANUFACTURER'S STICKY-BACK ADHESIVE IS NOT ACCEPTABLE. USE WHITE LETTERS ON BLACK FIELD FOR NORMAL POWER ITEMS, USE WHITE LETTERS ON RED FIELD FOR EMERGENCY POWER ITEMS.
- ALL CIRCUIT BREAKERS SHALL BE FULLY RATED; SERIES RATINGS PROHIBITED. PROVIDE HACR-RATED CIRCUIT BREAKERS FOR ALL HVAC & REFRIGERATION EQUIPMENT.
- BRANCH MOUNTED MAIN CIRCUIT BREAKERS ARE PROHIBITED.
- EQUIPMENT CIRCUITS: VERIFY WIRE SIZE AND C/B RATING WITH EQUIPMENT NAMEPLATE DATA. NOTIFY ENGINEER OF ANY DISCREPANCY.
- BOND TRANSFORMER SECONDARY TO BUILDING STEEL WITH FULL SIZED EQUIPMENT GROUNDING CONDUCTOR PER NEC TABLE 250.66 (TYPICAL). MOUNT TRANSFORMERS 6\"/>
- NEW PANELBOARDS TO INCLUDE HINGED TRIM (DOOR-IN-DOOR).
- SHOP DRAWING SUBMITTALS: SUBMIT AN ELECTRICAL ROOM LAYOUT DRAWING FOR EACH ELECTRICAL ROOM REFLECTING DIMENSIONS OF ACTUAL EQUIPMENT PROVIDED. PROVIDE CLEARANCES PER TABLE 110.26(A)(1) OF THE NEC.
- ARC-FLASH HAZARD WARNING LABELS: PROVIDE WARNING LABELS FOR ALL PANELS, SWITCHBOARDS, SWITCHGEAR, AND INDUSTRIAL CONTROL PANELS PER THE REQUIREMENTS OF NEC 110.16. LABELS TO READ, "DANGER ARC FLASH & SHOCK HAZARD - APPROPRIATE PERSONAL PROTECTION EQUIPMENT REQUIRED."

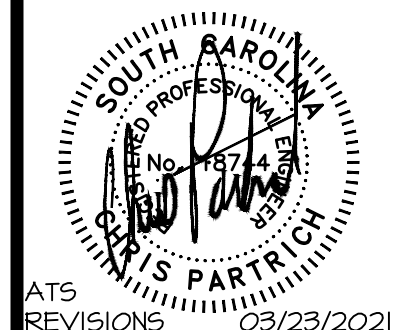
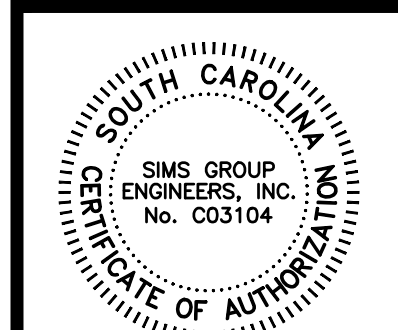
Jumper

Carter

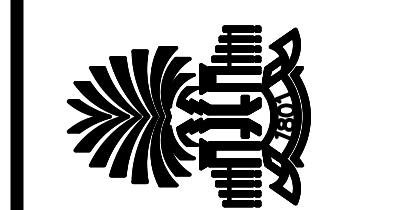
Sease

Architects

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CAPSTONE HOUSE ELEVATOR CONTROLS UPGRADE
UNIVERSITY OF SOUTH CAROLINA
COLUMBIA, SOUTH CAROLINA



REVISIONS:
03.23.2021 ATS REVISIONS

DRAWN BY: JMO

CHECKED BY: CLP

COMM NO: 20102

DATE: JANUARY 22, 2021

SHEET TITLE: ELECTRICAL DETAILS

SHEET NO: E601