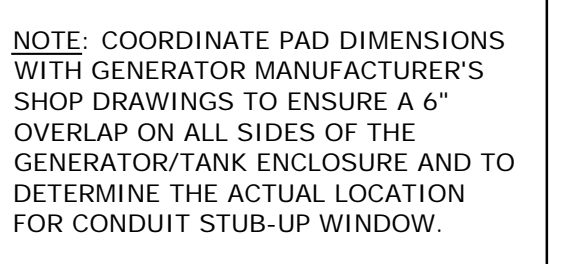


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T-1
1 OF 6

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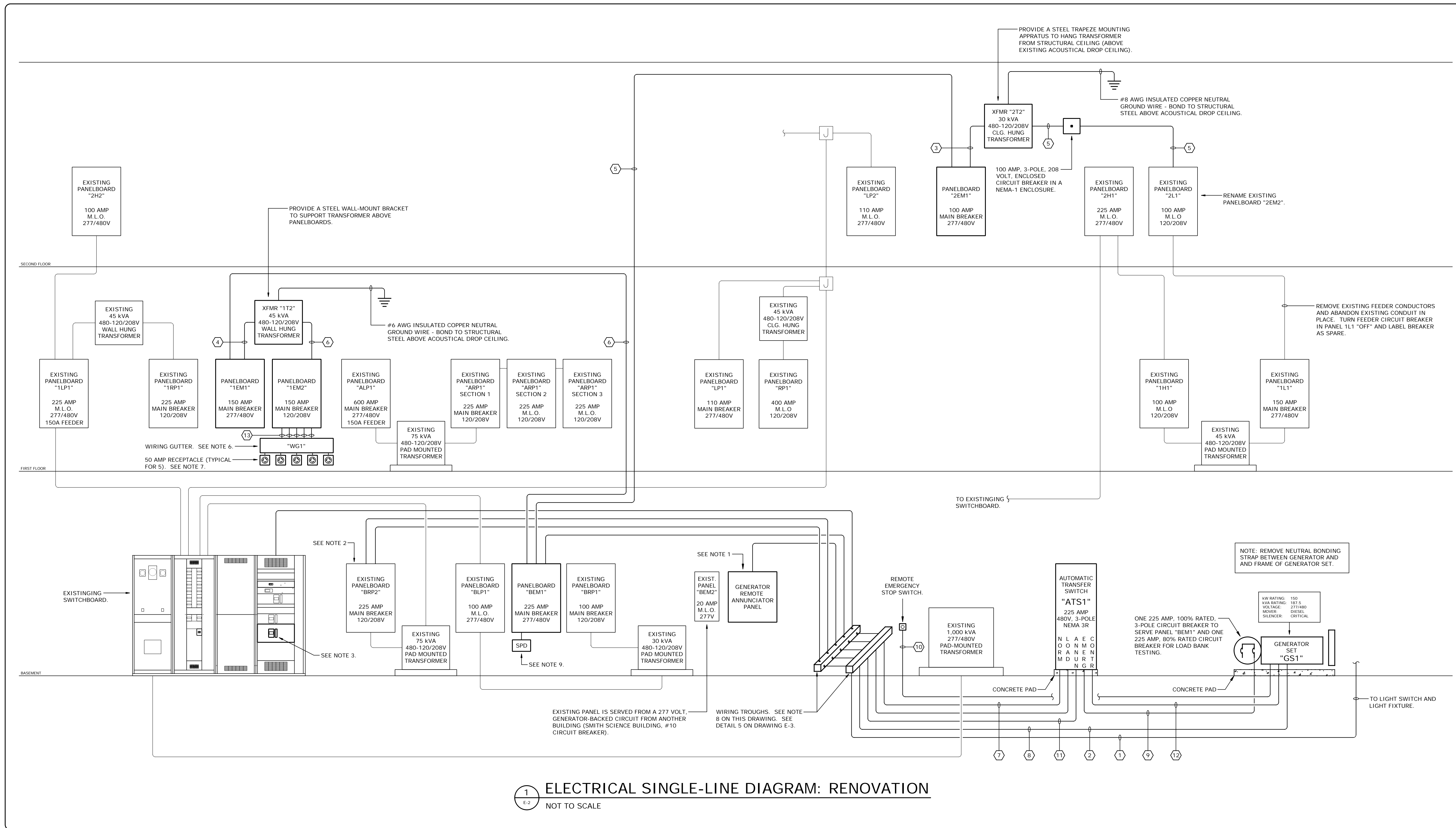


WIRE & CONDUIT SCHEDULE

- ① TWO #12 AWG COPPER THWN CONDUCTORS WITH ONE #12 AWG COPPER THWN GROUND WIRE IN 3/4" CONDUIT (FROM "BRP2" TO EXTERIOR LIGHT SWITCH AND LIGHT FIXTURE).
- ② FOUR #10 AWG COPPER THWN CONDUCTORS WITH TWO #10 AWG THWN GROUND WIRE IN 1" CONDUIT (FROM "BRP2" TO "GS1"). SEE NOTE 5.
- ③ THREE #8 AWG COPPER THHN CONDUCTORS WITH ONE #10 AWG COPPER THHN GROUND WIRE IN 3/4" CONDUIT. SEE NOTE 4.
- ④ THREE #4 AWG COPPER THHN CONDUCTORS WITH ONE #8 AWG COPPER THHN GROUND WIRE IN 1" CONDUIT. SEE NOTE 4.
- ⑤ FOUR #3 AWG COPPER THHN CONDUCTORS WITH ONE #8 AWG COPPER THHN GROUND WIRE IN 1-1/4" CONDUIT. SEE NOTE 4.
- ⑥ FOUR #1/0 AWG COPPER THHN CONDUCTORS WITH ONE #6 AWG COPPER THHN GROUND WIRE IN 2" CONDUIT. SEE NOTE 4.
- ⑦ FOUR #4/0 AWG COPPER THWN CONDUCTORS WITH ONE #4 AWG COPPER GROUND WIRE IN 2.5" CONDUIT (FROM SWITCHBOARD TO "ATS1").
- ⑧ FOUR #4/0 AWG COPPER THWN CONDUCTORS WITH ONE #4 AWG COPPER GROUND WIRE IN 2.5" CONDUIT (FROM "ATS1" TO "BEM1").
- ⑨ FOUR #4/0 AWG COPPER THWN CONDUCTORS WITH ONE #4 AWG COPPER GROUND WIRE IN 2.5" CONDUIT (FROM "GS1" TO "ATS1"). SEE NOTE 5.
- ⑩ TWO #14 AWG COPPER THWN CONDUCTORS WITH ONE #14 AWG COPPER THWN GROUND WIRE IN 3/4" CONDUIT (FROM "GS1" TO EMERGENCY STOP SWITCH). SEE NOTE 5.
- ⑪ 3/4" CONDUIT WITH CONDUCTORS AS SPECIFIED BY THE GENERATOR SET MANUFACTURER (FROM "ATS1" TO REMOTE ANNUNCIATOR PANEL).
- ⑫ 1" CONDUIT WITH CONDUCTORS AS SPECIFIED BY THE GENERATOR SET MANUFACTURER (FROM "GS1" TO "ATS1"). SEE NOTE 5.
- ⑬ THREE #6 AWG COPPER THHN CONDUCTORS WITH ONE #8 AWG THHN GROUND WIRE IN 1" CONDUIT. SPlice TO RECEPTACLE PIGTAIL LEADS USING COPPER SPLIT-BOLT CONNECTORS AND 3M (OR EQUAL) ELECTRICAL TAPE.

SINGLE-LINE DIAGRAM NOTES

1. REMOTE ANNUNCIATOR PANEL: COORDINATE EXACT LOCATION OF THE REMOTE ANNUNCIATOR PANEL WITH THE OWNER PRIOR TO ROUGH-IN. TOP OF PANEL SHALL BE 60" ABOVE FINISHED FLOOR.
2. EXISTING PANELBOARD "BRP2": EXISTING PANELBOARD IS A SQUARE-D #NO442L2, 120/208 VOLT, 225 AMP, MAIN-BREAKER PANELBOARD. PROVIDE NEW CIRCUIT BREAKERS IN EXISTING PANEL AS REQUIRED TO SERVE GENERATOR BATTERY CHARGER AND WATER JACKET HEATER BRANCH CIRCUITS. UPDATE LOAD DIRECTORY IN PANELBOARD TO REFLECT ADDED LOADS.
3. EXISTING MAIN SWITCHBOARD: EXISTING SWITCHBOARD SECTION IS A CUTLER-HAMMER POW-R-LINE C, 277/480 VOLT, 1600 AMP SWITCHBOARD. PROVIDE A 225 AMP, 480 VOLT, 3-POLE CIRCUIT BREAKER IN SWITCHBOARD TO SUPPLY NORMAL/UTILITY POWER TO AUTOMATIC TRANSFER SWITCH "ATS1". MODIFY EXISTING BUSSWORK AND PROVIDE BUSS CONNECTING KITS AND CONDUCTORS AS REQUIRED TO CONNECT CIRCUIT BREAKER. PROVIDE A CUSTOM FILLER PLATE/PANEL TO PROPERLY COVER OPENING IN SWITCHBOARD ENCLOSURE WHERE BREAKER IS ADDED.
4. RACEWAY CONNECTIONS TO TRANSFORMERS: FINAL RACEWAY CONNECTIONS TO TRANSFORMERS SHALL BE MADE WITH FLEXIBLE METAL CONDUIT (FMC).
5. RACEWAY CONNECTIONS TO GENERATOR: FINAL RACEWAY CONNECTIONS TO THE GENERATOR SHALL BE MADE WITH LIQUID-TIGHT FLEXIBLE METAL CONDUIT (LFMC).
6. WIRING GUTTER "WG1": PROVIDE A NEMA-1 6" x 6" x 36" STEEL WIRING GUTTER WITH HINGED DOOR AND CLAMP FASTENERS BELOW PANELBOARD "1EM2" TO MAKE SPlice CONNECTIONS FOR RECEPTACLE PIGTAIL LEADS.
7. 50 AMP RECEPTACLES: PROVIDE FIVE HUBBELL SIDER II #SL50 (OR EQUAL) RECEPTACLES, EVENLY SPACED ALONG BOTTOM OF WIRING GUTTER "WG1".
8. WIRING TROUGHS: PROVIDE TWO 18" x 18" x 36" STEEL WIRING TROUGHS/WIREWAYS (ONE NEMA-1 RATED AND ONE NEMA-3R RATED) AND ASSOCIATED CONDUIT NIPPLES AT EXTERIOR BUILDING WALL TO TRANSITION OUTDOOR UNDERGROUND RACEWAYS ABOVE GROUND AND INTO BUILDING. ALSO PROVIDE SHEET METAL DIVIDERS IN THE TROUGHS AS REQUIRED TO MAINTAIN SEPARATION BETWEEN NORMAL POWER CONDUCTORS, GENERATOR-BACKED CONDUCTORS, AND CONTROL WIRING. CONNECT RACEWAYS TO TROUGHS IN COMPLIANCE WITH ARTICLES 376.23(B) AND 314.28(A)(2) OF THE NATIONAL ELECTRICAL CODE.
9. SURGE PROTECTION DEVICE (SPD): PROVIDE ONE 1300 JOULE SURGE PROTECTION DEVICE WITH A 40,000 AMP SURGE CURRENT RATING PER PHASE, 6 MODES OF PROTECTION, AND A 200,000 AMP SHORT-CIRCUIT CURRENT RATING TO PROTECT PANELBOARD "BEM1" (SQUARE-D OR EQUAL).



ELECTRICAL SINGLE-LINE DIAGRAM: RENOVATION

NOT TO SCALE

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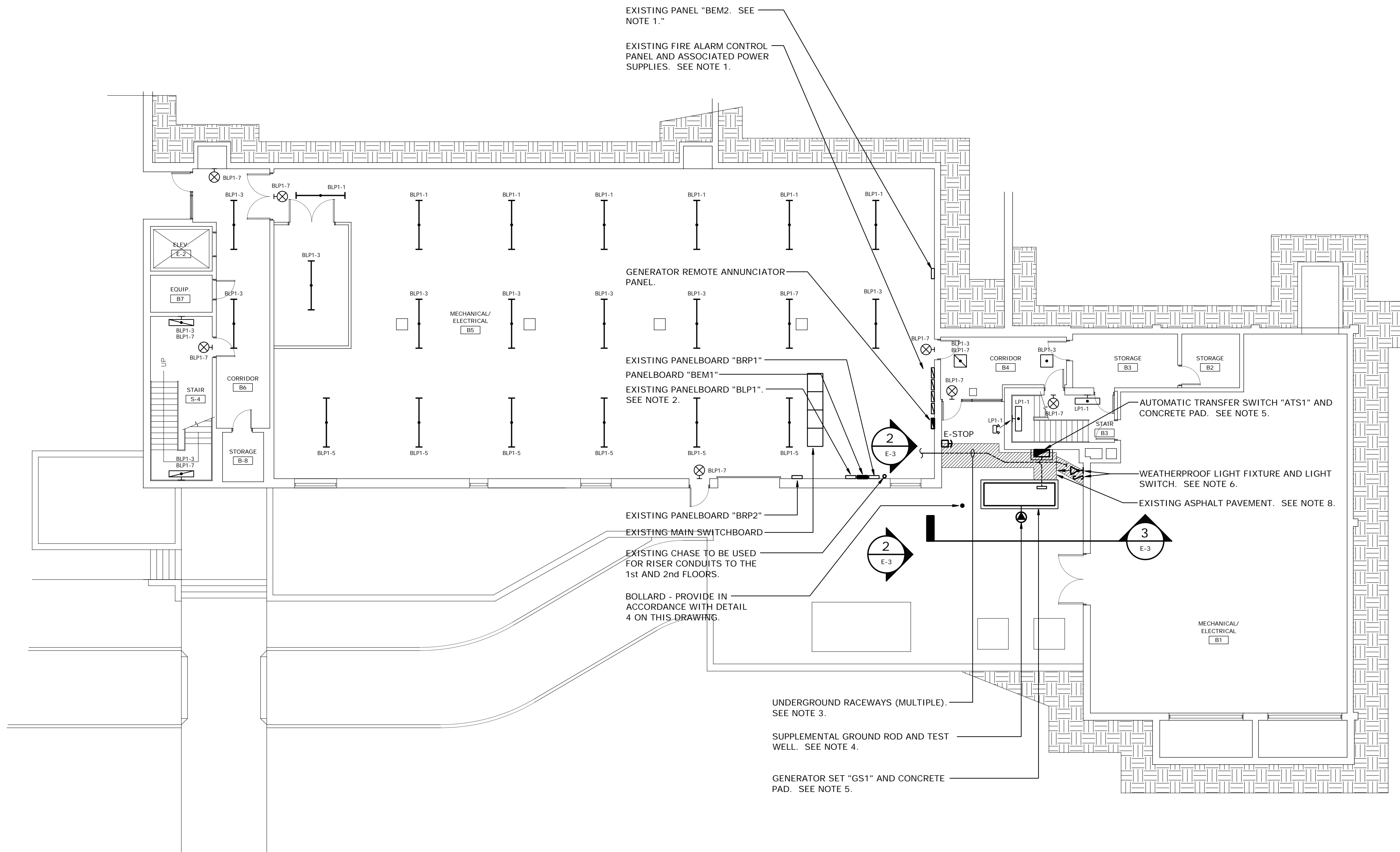
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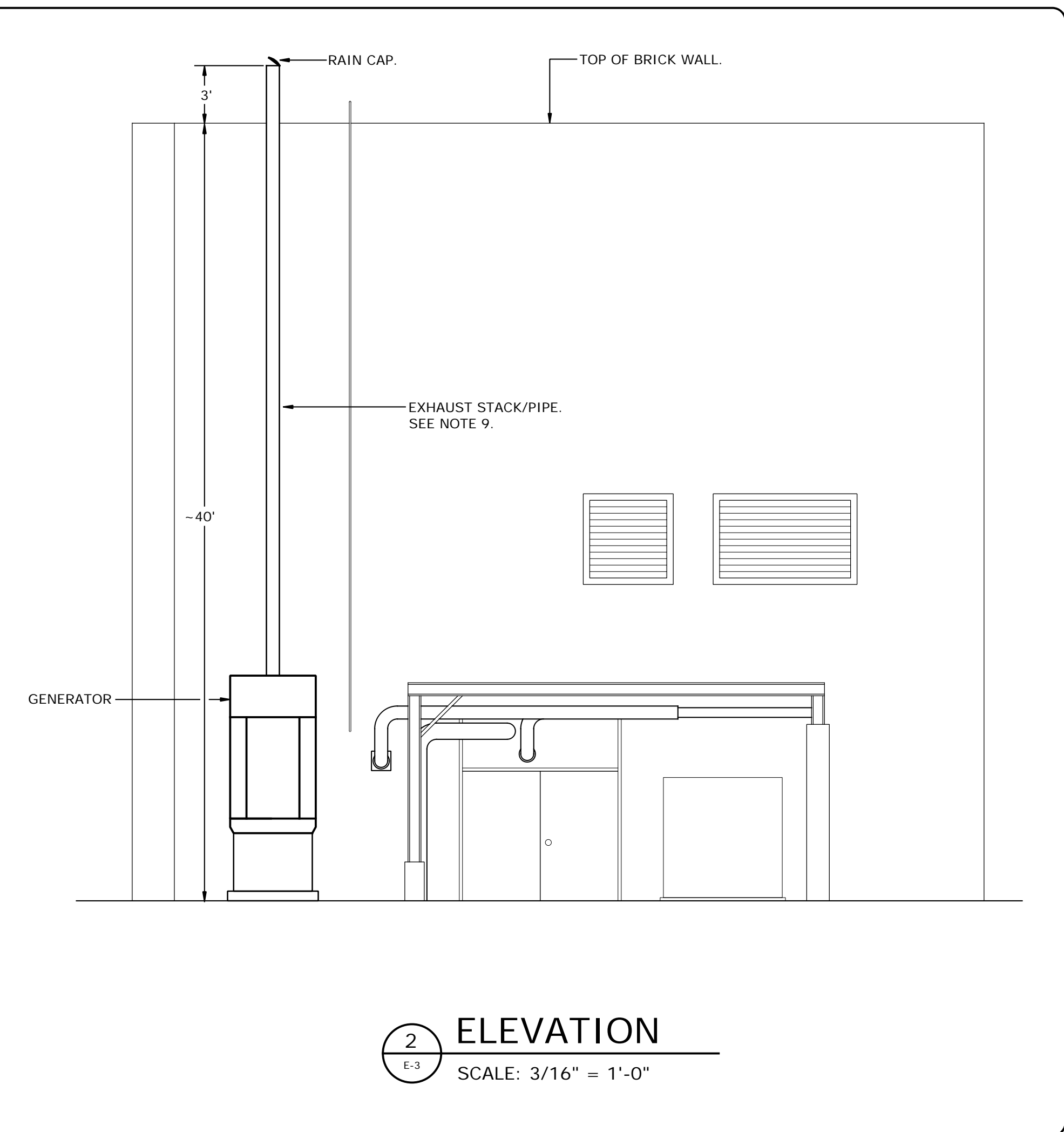
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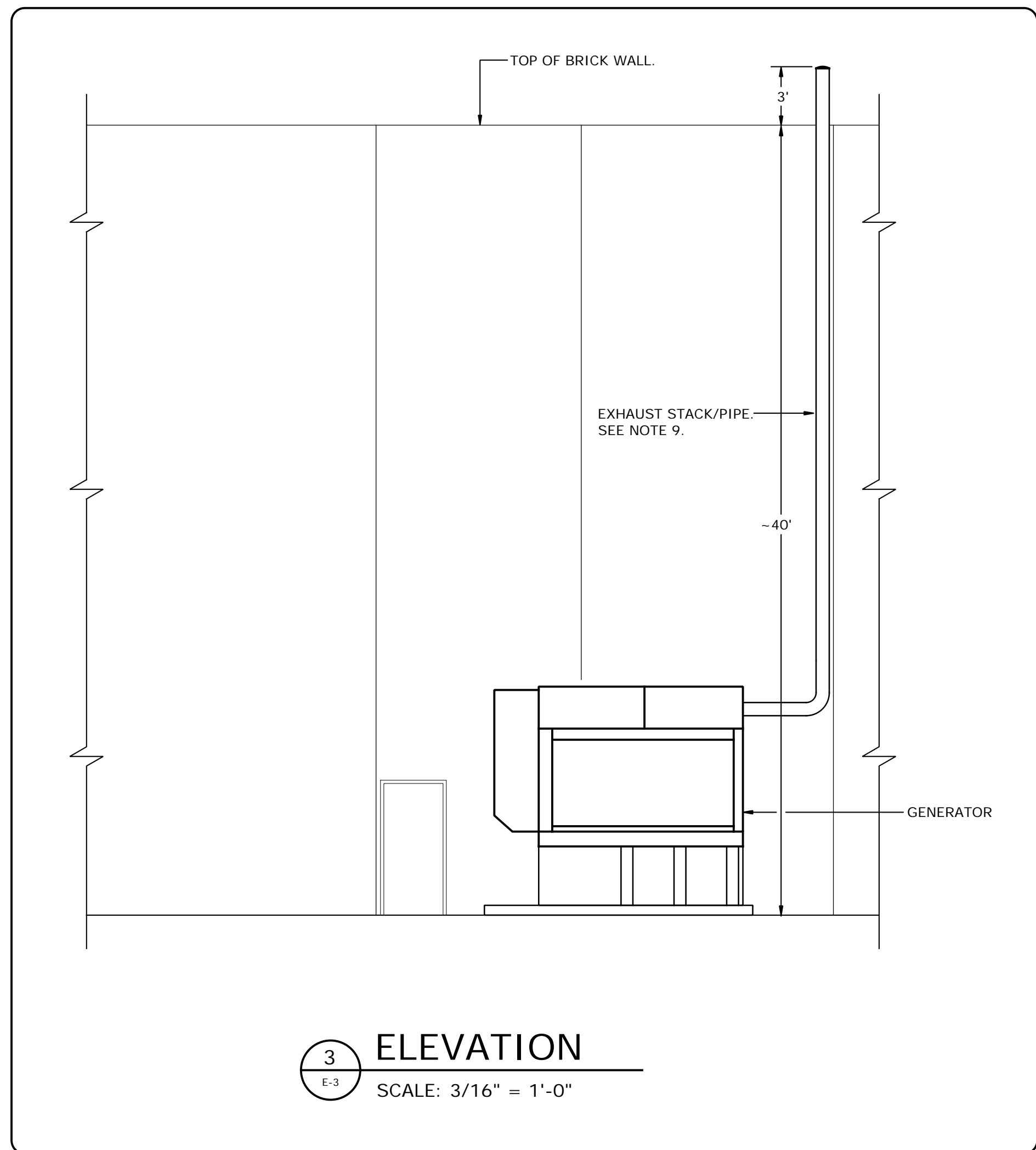


1 BASEMENT ELECTRICAL RENOVATION PLAN
SCALE: 3/32" = 1'-0"

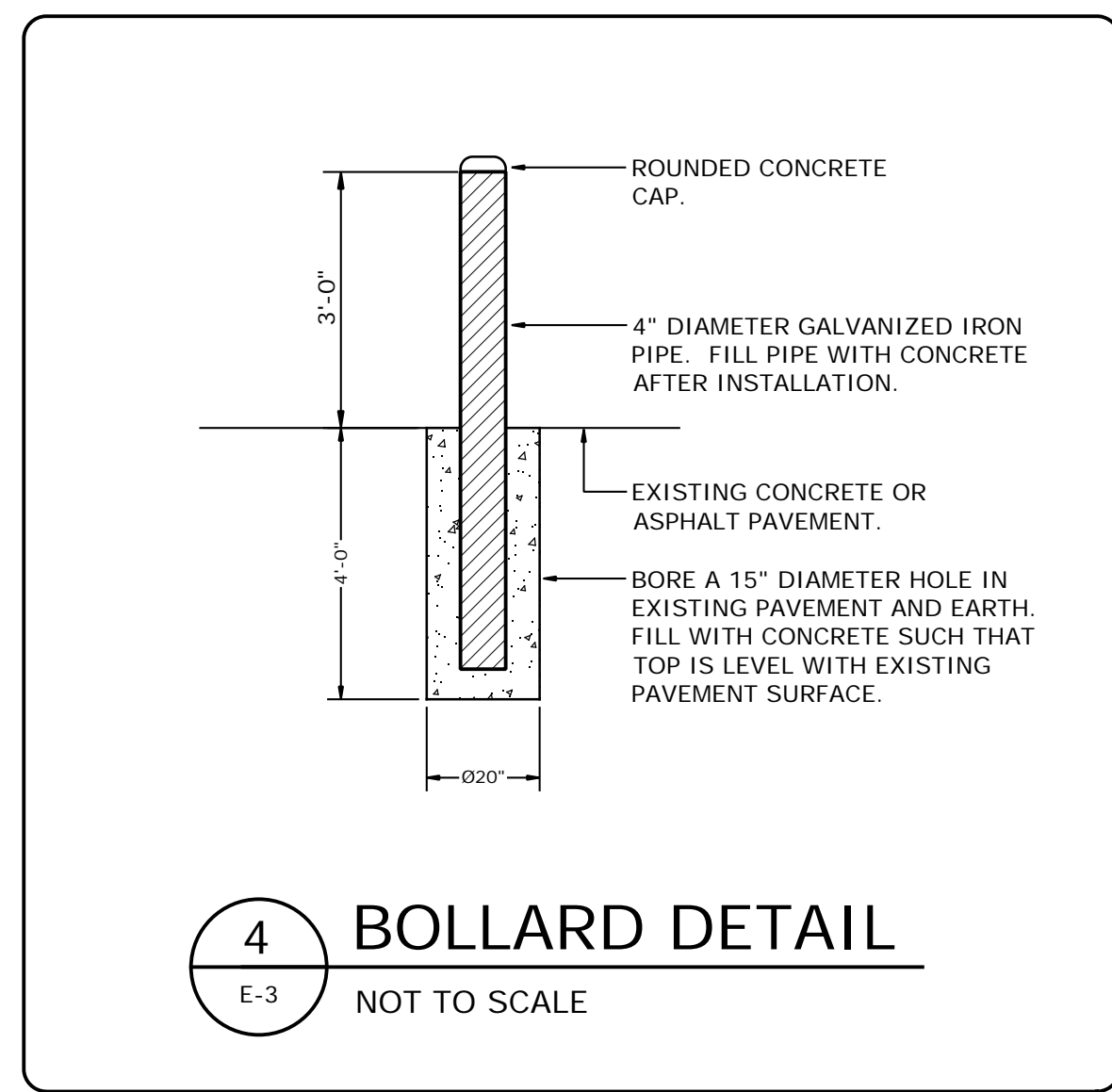
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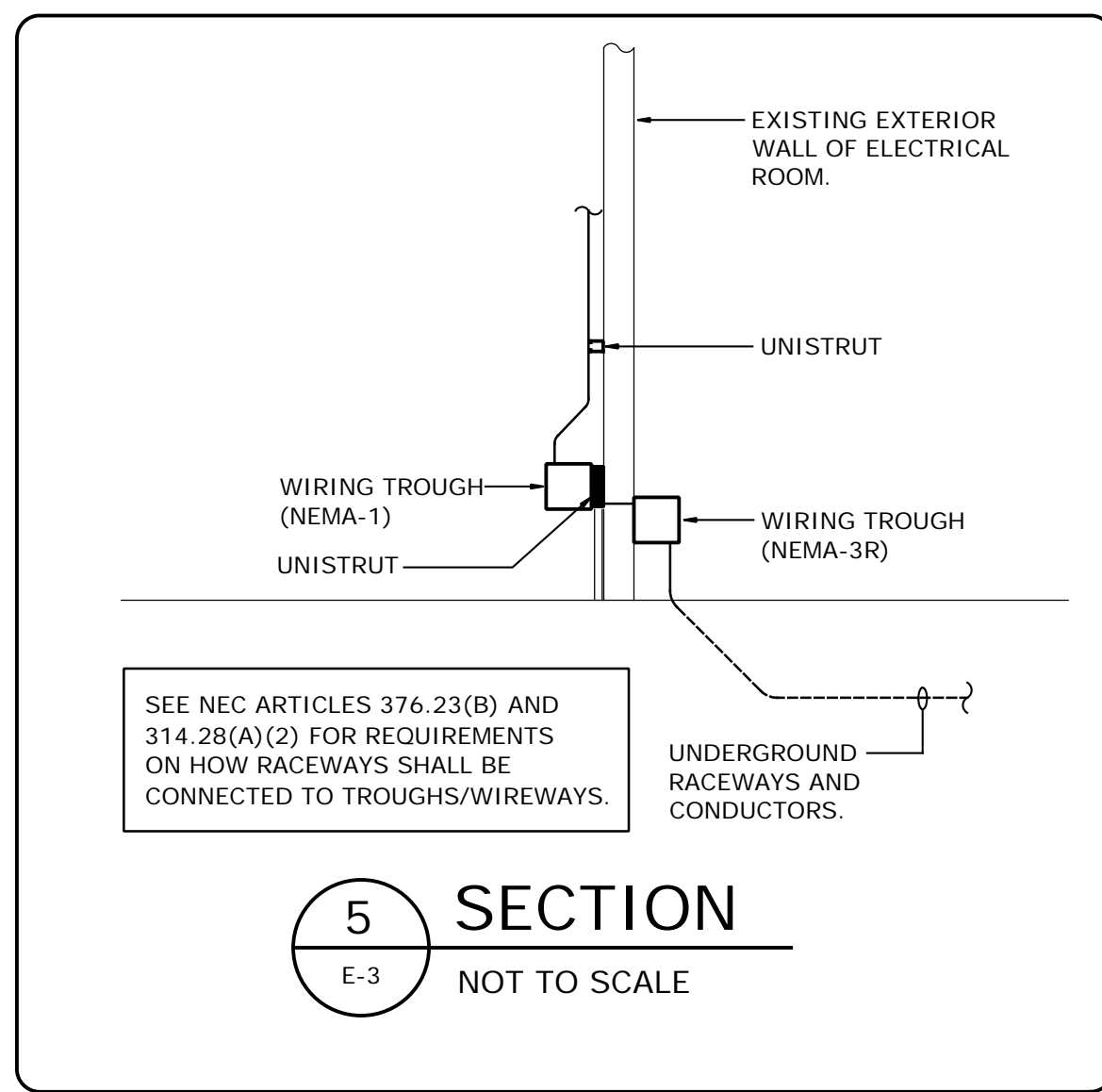
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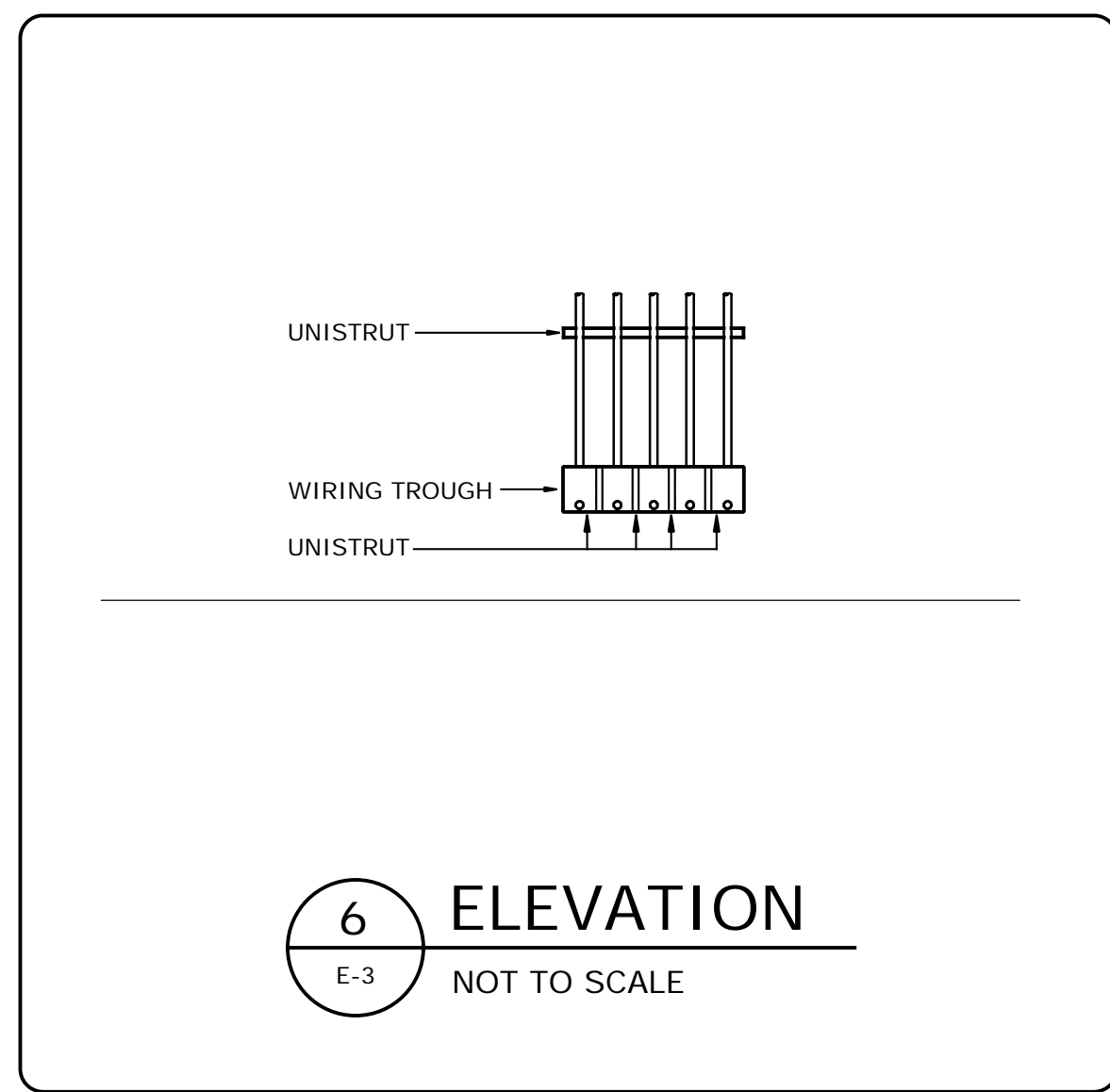
3 ELEVATION
SCALE: 3/16" = 1'-0"



4 BOLLARD DETAIL
NOT TO SCALE



5 SECTION
NOT TO SCALE



6 ELEVATION
NOT TO SCALE

- ### RENOVATION NOTES
1. EXISTING PANEL "BEM2": EXISTING PANEL HAS FUSED BUSES AND SERVES EMERGENCY EGRESS LIGHTS, THE FIRE ALARM CONTROL PANEL, AND FIRE ALARM SYSTEM POWER SUPPLIES. THE PANEL IS SERVED BY ONE 277-VOLT BRANCH CIRCUIT, WHICH ORIGINATES IN ANOTHER BUILDING (SMITH SCIENCE BUILDING, CIRCUIT BREAKER #10). THERE IS AN EXISTING CABINET LOCATED NEXT TO THE FIRE ALARM EQUIPMENT THAT HAS 4 TRANSFORMERS THAT STEP THE 277-VOLT SUPPLY CIRCUIT TO DOWN TO 120/240 VOLTS IN ORDER TO POWER THE FIRE ALARM EQUIPMENT. DISCONNECT THE 277-VOLT CIRCUIT THAT SERVES PANEL "BEM2". PROVIDE WIRE-NUTS ON THE CIRCUIT CONDUCTORS, AND WRAP EACH WIRE-NUT WITH ELECTRICAL TAPE. PROVIDE A NEW BRANCH CIRCUIT FROM PANELBOARD "BEM1" TO RE-SERVE PANEL "BEM2" - CONDUCTORS SHALL BE #12 AWG COPPER THHN (INCLUDING A GREEN INSULATED COPPER GROUND WIRE), AND PROVIDE 3/4" EMT TO ROUTE CONDUCTORS.
 2. EXISTING PANEL "BP1-1": DISCONNECT CIRCUIT CONDUCTORS FOR CIRCUITS 1, 3, 5, AND 7 FROM PANEL "BP1-1". CUT BACK RACEWAYS ASSOCIATED WITH THESE CIRCUITS SO THAT THEY ARE DISCONNECTED FROM THE PANELBOARD. PROVIDE JUNCTION BOXES ON RACEWAY ENDS TO SPlice CONDUCTORS. PROVIDE 3/4" EMT RACEWAYS FROM JUNCTION BOXES TO PANEL "BEM1". PROVIDE #12 AWG COPPER THHN CONDUCTORS (INCLUDING GREEN INSULATED COPPER GROUND WIRES) AS REQUIRED TO EXTEND EXISTING LIGHTING CIRCUIT CONDUCTORS FROM JUNCTION BOXES TO PANELBOARD "BEM1". SPlice CONDUCTORS IN JUNCTION BOXES USING WIRE-NUTS - INDIVIDUALLY WRAP EACH WIRE-NUT WITH ELECTRICAL TAPE.
 3. UNDERGROUND RACEWAYS: INSTALL UNDERGROUND RACEWAYS IN ACCORDANCE WITH DETAIL 1 ON DRAWING E-1 AND GENERAL NOTE 3 ON DRAWING E-1.
 4. GENERATOR SUPPLEMENTAL GROUNDING: PROVIDE ONE 3/4" x 10' COPPER-CLAD STEEL GROUND ROD AND TEST WELL WITH REMOVABLE COVER. BOND GROUND ROD TO FRAME OF GENERATOR SET WITH ONE #1/0 AWG THWN COPPER WIRE. CORE EXISTING PAVEMENT AS REQUIRED TO INSTALL GROUND ROD AND TEST WELL.
 5. CONCRETE PADS: PROVIDE CONCRETE EQUIPMENT PADS FOR THE GENERATOR SET AND THE AUTOMATIC TRANSFER SWITCH IN ACCORDANCE WITH DETAIL 2 ON DRAWING E-1.
 6. OUTDOOR LIGHT FIXTURE AND LIGHT SWITCH: PROVIDE ONE AIMABLE, WALL-MOUNTED L.E.D. FLOODLIGHT (PROVIDE H.E. WILLIAMS PVF2-L70-WF-CU-DBR-PVS-120 OR EQUAL BY COOPER OR LITHONIA). WALL MOUNT FLOODLIGHT AT 8 FEET ABOVE PAVEMENT. PROVIDE A WALL-MOUNTED, WEATHERPROOF, SINGLE-POLE LIGHT SWITCH TO CONTROL POWER TO THE LIGHT FIXTURE. MOUNT SWITCH IN A CAST-METAL WEATHER-PROOF BOX WITH FLAP-TYPE COVER AT 48" ABOVE FINISHED GRADE.
 7. EXISTING LIGHTS, EXIT SIGNS, AND EMERGENCY LIGHTING UNITS: ALL EXISTING LIGHTING FIXTURES, EXIST SIGNS, AND EMERGENCY LIGHTING UNITS SHOWN ON PLAN ARE EXISTING AND SHALL REMAIN IN PLACE. FIXTURES ARE SHOWN TO DOCUMENT CHANGES TO SUPPLY CIRCUITS AS INDICATED IN NOTES 1 AND 2 ABOVE, FOR RECORD PURPOSES.
 8. EXISTING PAVEMENTS: CUT AND PATCH EXISTING ASPHALT PAVEMENTS AS REQUIRED TO INSTALL UNDERGROUND RACEWAYS. PATCH MATERIAL SHALL BE 4" THICK, FIBER-REINFORCED, 3000 PSI CONCRETE. PROCURE THE SERVICES OF A SOUTH CAROLINA LICENSED PAVING CONTRACTOR TO PERFORM CUTTING AND PATCHING OF THE EXISTING PAVEMENTS.
 9. EXHAUST STACK/PIPE: PROVIDE A CARBON-STEEL EXHAUST PIPE AS SHOWN IN DETAILS 2 AND 3 ON THIS DRAWING FOR THE GENERATOR SET. SIZE PIPE AND PROVIDE SUPPORTS IN ACCORDANCE WITH THE GENERATOR SET MANUFACTURER'S RECOMMENDATIONS. PIPE SHALL INCLUDE A HINGED RAIN CAP AT TOP OF PIPE AND A WATER DRAIN FITTING AT THE BOTTOM OF THE RISER PIPE.

State Project No. H34-1375

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BUILDING	DRAWING	DATE	CHECKED BY	DATE	ORIG. BY	DRAWN BY
			JML			

REV	DESCRIPTION	DATE

PROJECT TITLE: UPSTATE NEW GENERATOR INSTALLATION
HODGE CENTER

University of South Carolina

SHEET: E-3
4 OF 6

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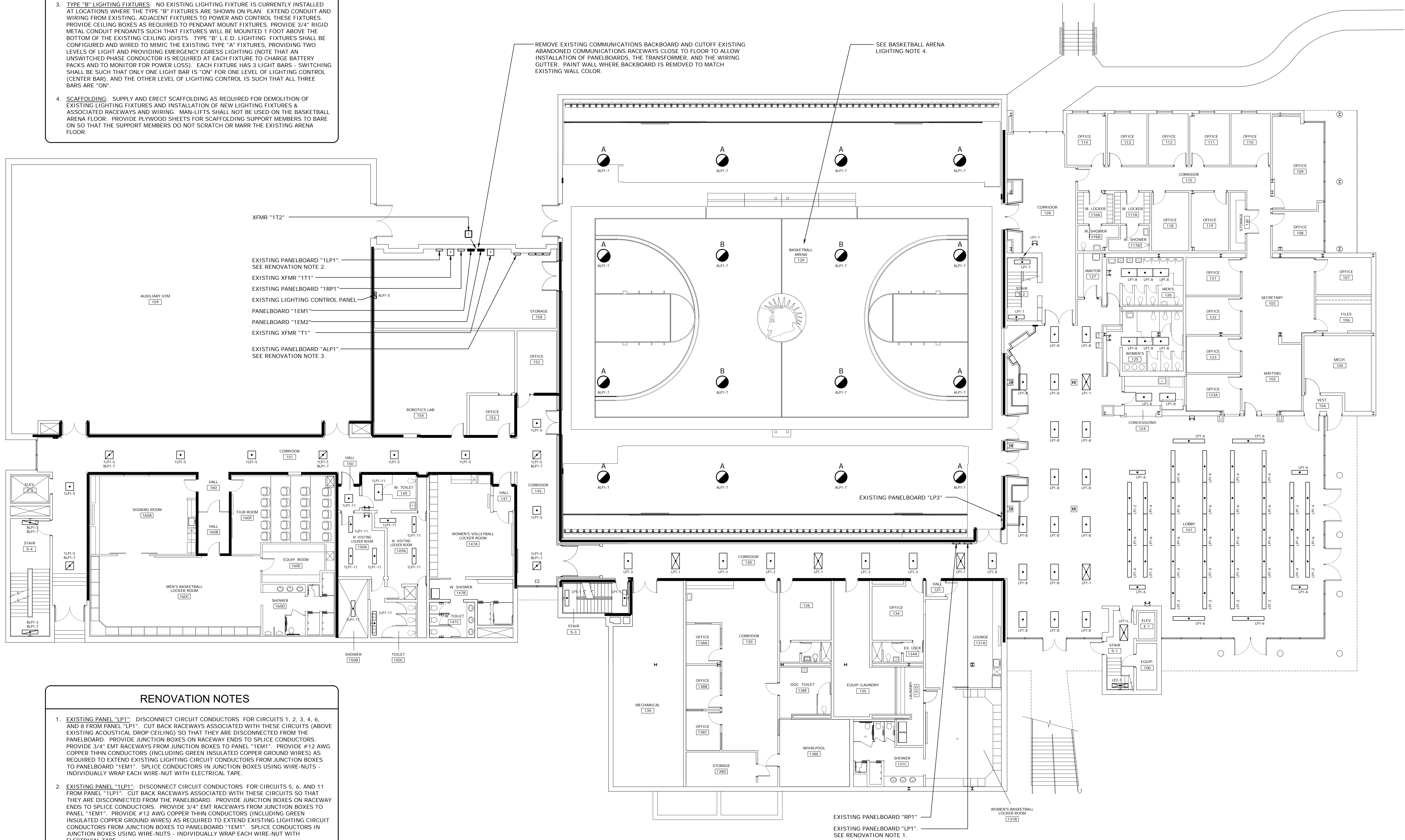
BASKETBALL ARENA LIGHTING NOTES

- EXISTING TYPE "A" LIGHTING FIXTURES: EXISTING LIGHTING FIXTURES HAVE MULTIPLE FLUORESCENT, BIA TYPE LAMPS (6 OR 8). EACH FIXTURE IS WIRED SUCH THAT IT CAN PROVIDE TWO LEVELS OF LIGHT - 1/2 OF THE BULBS TURNED ON OR ALL OF THE BULBS TURNED ON. THE EXISTING LIGHTING CONTROL PANEL IN ROOM 158 HAS RELAYS IN IT THAT CONTROL THE TWO LIGHTING LEVELS. THERE ARE THREE-BUTTON, LOW-VOLTAGE LIGHT SWITCHES INSTALLED IN MULTIPLE LOCATIONS IN THE ARENA THAT CONTROL THESE FIXTURES. THESE FIXTURES ALSO HAVE AN INTEGRAL EMERGENCY BATTERY PACK IN THEM THAT PROVIDES EMERGENCY EGRESS LIGHTING DURING POWER OUTAGES. REMOVE ALL EXISTING TYPE "A" LIGHTING FIXTURES - RACEWAYS AND WIRING SHALL REMAIN IN PLACE AND BE RE-USED AS MUCH AS PRACTICAL.
- NEW/REPLACEMENT TYPE "A" LIGHTING FIXTURES: PROVIDE 3/4" RIGID METAL CONDUIT PENDANTS SUCH THAT FIXTURES WILL BE MOUNTED 1 FOOT ABOVE THE BOTTOM OF THE EXISTING CEILING JOISTS. NEW/REPLACEMENT L.E.D. LIGHTING FIXTURES SHALL BE CONFIGURED AND WIRED TO MIMIC THE EXISTING TYPE "A" FIXTURES, PROVIDING TWO LEVELS OF LIGHT AND PROVIDING EMERGENCY EGRESS LIGHTING (NOTE THAT AN UNSWITCHED PHASE CONDUCTOR IS REQUIRED AT EACH FIXTURE TO CHARGE BATTERY PACKS AND TO MONITOR FOR POWER LOSS). EACH FIXTURE HAS 3 LIGHT BARS - SWITCHING SHALL BE SUCH THAT ONLY ONE LIGHT BAR IS "ON" FOR ONE LEVEL OF LIGHTING CONTROL (CENTER BAR), AND THE OTHER LEVEL OF LIGHTING CONTROL IS SUCH THAT ALL THREE BARS ARE "ON".
- TYPE "B" LIGHTING FIXTURES: NO EXISTING LIGHTING FIXTURE IS CURRENTLY INSTALLED AT LOCATIONS WHERE THE TYPE "B" FIXTURES ARE SHOWN ON PLAN. EXTEND CONDUIT AND WIRING FROM EXISTING, ADJACENT FIXTURES TO POWER AND CONTROL THESE FIXTURES. PROVIDE CEILING BOXES AS REQUIRED TO PENDANT MOUNT FIXTURES. PROVIDE 3/4" RIGID METAL CONDUIT PENDANTS SUCH THAT FIXTURES WILL BE MOUNTED 1 FOOT ABOVE THE BOTTOM OF THE EXISTING CEILING JOISTS. TYPE "B" L.E.D. LIGHTING FIXTURES SHALL BE CONFIGURED AND WIRED TO MIMIC THE EXISTING TYPE "A" FIXTURES, PROVIDING TWO LEVELS OF LIGHT AND PROVIDING EMERGENCY EGRESS LIGHTING (NOTE THAT AN UNSWITCHED PHASE CONDUCTOR IS REQUIRED AT EACH FIXTURE TO CHARGE BATTERY PACKS AND TO MONITOR FOR POWER LOSS). EACH FIXTURE HAS 3 LIGHT BARS - SWITCHING SHALL BE SUCH THAT ONLY ONE LIGHT BAR IS "ON" FOR ONE LEVEL OF LIGHTING CONTROL (CENTER BAR), AND THE OTHER LEVEL OF LIGHTING CONTROL IS SUCH THAT ALL THREE BARS ARE "ON".
- SCAFFOLDING: SUPPLY AND ERECT SCAFFOLDING AS REQUIRED FOR DEMOLITION OF EXISTING LIGHTING FIXTURES AND INSTALLATION OF NEW LIGHTING FIXTURES & ASSOCIATED RACEWAYS AND WIRING. MAN-LIFTS SHALL NOT BE USED ON THE BASKETBALL ARENA FLOOR. PROVIDE PLYWOOD SHEETS FOR SCAFFOLDING SUPPORT MEMBERS TO BARE ON SO THAT THE SUPPORT MEMBERS DO NOT SCRATCH OR MARR THE EXISTING ARENA FLOOR.

LIGHTING FIXTURE SCHEDULE

SYMBOL	TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	OPTICAL ELEMENT	MOUNTING	VOLTS	LIGHT SOURCE
	A	COMMERCIAL HIGH-BAY L.E.D. LIGHTING FIXTURE. REMOVE EXISTING FIXTURE AT SAME LOCATION AND INSTALL THIS ONE.	G.E. (OR EQUAL BY LITHONIA OR LUMAX)	ABHG-4-3-H-48-D-N-K-N-W- EL1 (120-DEGREE BATTERY BACKUP)	120-DEGREE DIFFUSED LENS	3/4" CONDUIT PENDANT	277V	L.E.D. - 24250 lumens, 4000K, 225 WATTS, 108 LPW, 80+ CRI
	B	SAME AS "A" FIXTURE ABOVE EXCEPT THERE IS NO EXISTING LIGHT FIXTURE CURRENTLY INSTALLED AT ITS LOCATION.	G.E. (OR EQUAL BY LITHONIA OR LUMAX)	ABHG-4-3-H-48-D-N-K-N-W- EL1 (120-DEGREE BATTERY BACKUP)	120-DEGREE DIFFUSED LENS	3/4" CONDUIT PENDANT	277V	L.E.D. - 24250 lumens, 4000K, 225 WATTS, 108 LPW, 80+ CRI

PROVIDE LIGHT LEVEL CONTROL AS DESCRIBED IN BASKETBALL ARENA LIGHTING NOTES 1, 2, AND 3 ON THIS DRAWING (TYPICAL FOR TYPE "A" AND "B" LIGHTING FIXTURES).



RENOVATION NOTES

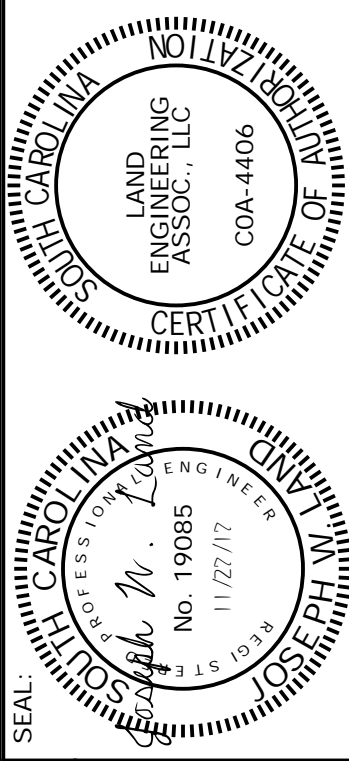
- EXISTING PANEL "LP1": DISCONNECT CIRCUIT CONDUCTORS FOR CIRCUITS 1, 2, 3, 4, 6, AND 8 FROM PANEL "LP1". CUT BACK RACEWAYS ASSOCIATED WITH THESE CIRCUITS (ABOVE EXISTING ACOUSTICAL DROP CEILING) SO THAT THEY ARE DISCONNECTED FROM THE PANELBOARD. PROVIDE JUNCTION BOXES ON RACEWAY ENDS TO SPLICE CONDUCTORS. PROVIDE 3/4" EMT RACEWAYS FROM JUNCTION BOXES TO PANEL "1EM1". PROVIDE #12 AWG COPPER THHN CONDUCTORS (INCLUDING GREEN INSULATED COPPER GROUND WIRES) AS REQUIRED TO EXTEND EXISTING LIGHTING CIRCUIT CONDUCTORS FROM JUNCTION BOXES TO PANELBOARD "1EM1". SPLICE CONDUCTORS IN JUNCTION BOXES USING WIRE-NUTS - INDIVIDUALLY WRAP EACH WIRE-NUT WITH ELECTRICAL TAPE.
- EXISTING PANEL "LP1": DISCONNECT CIRCUIT CONDUCTORS FOR CIRCUITS 5, 6, AND 11 FROM PANEL "LP1". CUT BACK RACEWAYS ASSOCIATED WITH THESE CIRCUITS SO THAT THEY ARE DISCONNECTED FROM THE PANELBOARD. PROVIDE JUNCTION BOXES ON RACEWAY ENDS TO SPLICE CONDUCTORS. PROVIDE 3/4" EMT RACEWAYS FROM JUNCTION BOXES TO PANEL "1EM1". PROVIDE #12 AWG COPPER THHN CONDUCTORS (INCLUDING GREEN INSULATED COPPER GROUND WIRES) AS REQUIRED TO EXTEND EXISTING LIGHTING CIRCUIT CONDUCTORS FROM JUNCTION BOXES TO PANELBOARD "1EM1". SPLICE CONDUCTORS IN JUNCTION BOXES USING WIRE-NUTS - INDIVIDUALLY WRAP EACH WIRE-NUT WITH ELECTRICAL TAPE.
- EXISTING PANEL "ALP1": DISCONNECT CIRCUIT CONDUCTORS FOR CIRCUITS 5 AND 7 FROM PANEL "ALP1". CUT BACK RACEWAYS ASSOCIATED WITH THESE CIRCUITS SO THAT THEY ARE DISCONNECTED FROM THE PANELBOARD. PROVIDE JUNCTION BOXES ON RACEWAY ENDS TO SPLICE CONDUCTORS. PROVIDE 3/4" EMT RACEWAYS FROM JUNCTION BOXES TO PANEL "1EM1". PROVIDE #12 AWG COPPER THHN CONDUCTORS (INCLUDING GREEN INSULATED COPPER GROUND WIRES) AS REQUIRED TO EXTEND EXISTING LIGHTING CIRCUIT CONDUCTORS FROM JUNCTION BOXES TO PANELBOARD "1EM1". SPLICE CONDUCTORS IN JUNCTION BOXES USING WIRE-NUTS - INDIVIDUALLY WRAP EACH WIRE-NUT WITH ELECTRICAL TAPE.
- EXISTING LIGHTS, EXIT SIGNS, AND EMERGENCY LIGHTING UNITS: ALL EXISTING LIGHTING FIXTURES, EXIST SIGNS, AND EMERGENCY LIGHTING UNITS SHOWN ON PLAN ARE EXISTING AND SHALL REMAIN IN PLACE (OTHER THAN TYPE "A" AND TYPE "B" FIXTURES). FIXTURES ARE SHOWN TO DOCUMENT CHANGES TO SUPPLY CIRCUITS AS INDICATED IN NOTES 1, 2, AND 3 ABOVE, FOR RECORD PURPOSES.

1st FLOOR ELECTRICAL RENOVATION PLAN

SCALE: 3/32" = 1'-0"

3/32"=1'-0"
Scale
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feet

State Project No. H34-I375



BUILDING	DRAWING	DATE	CHECKED BY	DATE	ORIG. BY	DRAWN BY
			JML			
REV	DESCRIPTION	DATE	BY	DATE	BY	DATE

PROJECT TITLE: UPSTATE NEW GENERATOR INSTALLATION
HODGE CENTER

UNIVERSITY OF SOUTH CAROLINA

SHEET: E-4
5 OF 6

SHEET IN SET: 5 OF 6

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