

ELECTRICAL GENERAL NOTES

- A. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT SIZE AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.
- B. RECEPTACLES, SWITCHES AND COVERPLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS.
- C. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGHING-IN WALL FOR SWITCHES.
- D. LOCATION OF LIGHTING FIXTURES, DISCONNECT SWITCHES, ETC. FOR MECHANICAL EQUIPMENT/ROOM SHALL BE COORDINATED WITH FINAL MECHANICAL EQUIPMENT LOCATION TO PROVIDE NATIONAL ELECTRIC CODE REQUIRED ACCESS SPACE.
- E. FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
- F. ALL EXIT AND EMERGENCY FIXTURES SHALL BE CONNECTED TO LIGHT CIRCUIT AHEAD OF LOCAL SWITCH.
- G. ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, ETC SHALL HAVE CUSTOM ENGRAVED MICARTA NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM.
- H. PROVIDE GREEN GROUND CONDUCTOR IN ALL CIRCUITS - SIZE PER N.E.C.
- I. ALL EXPOSED CONDUITS, BOXES, STRAPS AND HANGERS IN THE CONTRACT AREA WHETHER NEW OR EXISTING THAT ARE PART OF THE ELECTRICAL SYSTEM SHALL BE PAINTED TO MATCH ADJACENT FINISH.
- J. PROVIDE CONCRETE MARKER AT END OF ALL CONDUITS STUBBED OUT OF BUILDING FOR FUTURE USE. MARKER SHALL BE 6" DIA X 18" HIGH WITH 2" ABOVE FINISHED GRADE. INSCRIBE IN TOP OF MARKER "E" FOR ELECTRICAL, "T" FOR TELEPHONE, "V" FOR TV CABLE, "F" FOR FIRE ALARM, AND "IC" FOR INTERCOM.
- K. GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
- L. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE MECHANICAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
- M. FIRE ALARM LOW VOLTAGE SOURCE AND BATTERY STANDBY SHALL ENERGIZE ALL ITEMS IN FIRE ALARM SYSTEM THAT REQUIRE POWER.
- N. VERIFY EXACT LOCATION OF ALL FLOOR OUTLETS WITH THE ARCHITECT PRIOR TO ROUGHING-IN.
- O. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FAULT CURRENT CALCULATIONS FOR THE SERVICE EQUIPMENT AND SHALL MARK THE EQUIPMENT WITH THE AVAILABLE FAULT CURRENT AND DATE OF THE CALCULATION PER NEC 110.24. REFER TO TYPICAL SERVICE EQUIPMENT FAULT CURRENT LABEL DETAIL.
- P. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ARC FAULT LABELS PER NFPA 70E ARTICLE 110.16 FOR NEW EQUIPMENT. THE OWNER SHALL PROVIDE AVAILABLE CALCULATION DATA FOR THE EXISTING EQUIPMENT IN THE ELECTRICAL SYSTEM. REFER TO TYPICAL ARC FLASH HAZARD LABEL DETAIL.
- Q. PROVIDE NEUTRAL AT ALL LINE VOLTAGE SWITCH LOCATIONS PER N.E.C. 404.2(C).
- R. PROVIDE 'LSI' TRIP UNITS FOR ALL BREAKERS GREATER THAN OR EQUAL TO 200A.
- S. PROVIDE BUSHINGS ON ALL CONDUIT.

ELECTRICAL LEGEND

- A-1 ADJACENT TO ARROW INDICATES HOMERUN OF CIRCUIT NO. 1 TO PANEL A; "B" INDICATES FIXTURE TYPE; MARKS ACROSS RACEWAY RUN INDICATES THE NUMBER OF 12 CONDUCTORS; UNLESS NOTED OTHERWISE NO MARKS INDICATES TWO NO. 12 CONDUCTORS AND ONE NO. 12 GREEN GROUND CONDUCTOR IN 1/2" CONDUIT (#12 & #12 GND-1/2")
- PENDANT FIXTURE BY ARCHITECT
 - DECORATIVE CEILING FAN/LIGHT COMBINATION
 - CEILING FIXTURE
 - WALL BRACKET FIXTURE
 - POLE MOUNTED FIXTURE
 - 2' X 2' FIXTURE; CEILING MOUNTED; ARROW INDICATES LENS DIRECTION
 - 2' X 2' FIXTURE WITH SELF CONTAINED EMERGENCY DRIVER; CEILING MOUNTED; ARROW INDICATES LENS DIRECTION
 - LINEAR FIXTURE; CEILING MOUNTED;
 - LINEAR FIXTURE WITH SELF CONTAINED EMERGENCY DRIVER; CEILING MOUNTED;
 - EXIT SIGN; CEILING MOUNTED; ARROWS AS NOTED; SHADED SECTION INDICATES LIGHTED FACE OF EXIT SIGN
 - EXIT SIGN; BACK MOUNTED; ARROWS AS NOTED; SHADED SECTION INDICATES LIGHTED FACE OF EXIT SIGN
 - JUNCTION BOX; MOUNTED ABOVE CEILING
 - JUNCTION BOX; MOUNTED FLUSH IN WALL WITH BLANK COVER
 - DUPLEX RECEPTACLE; 125V; 20A; 3 POLE GND; MT 18" AFF TO C/L UNLESS NOTED OTHERWISE; NEMA 5-20R; HUBBELL SERIES HBL5352
 - CEILING MOUNTED DUPLEX RECEPTACLE; 125V; 20A; 3 POLE GND; MT FLUSH IN CEILING UNLESS NOTED OTHERWISE; NEMA 5-20R; HUBBELL SERIES HBL5352
 - QUAD RECEPTACLE; 125V; 20A; 3 POLE GND; MT 18" AFF TO C/L UNLESS NOTED OTHERWISE; NEMA 5-20R; HUBBELL SERIES HBL5352
 - RANGE RECEPTACLE; 220V; 50A; 3 POLE GND; MT 18" AFF TO C/L UNLESS NOTED OTHERWISE; NEMA 14-50; HUBBELL SERIES HBL9450A
 - DUPLEX RECEPTACLE; 125V; 20A; 3 POLE GND; GFI; MT 18" AFF TO C/L UNLESS NOTED OTHERWISE; NEMA GF-5-20R; HUBBELL SERIES GF5362
 - LETTERS "WP" ADJACENT TO SYMBOL INDICATES GFI WEATHER RESISTANT RECEPTACLE; HUBBELL HBLGFBHP20 SERIES WITH WEATHERPROOF COVER; PASS AND SEYMOUR WIUFC10S COVER/BOX.
 - DUPLEX RECEPTACLE FOR TELEVISION WITH TVSS PROTECTION, LED AND ALARM; 125V; 20A; 2 POLE; 3 WIRE; GND; SEE TELECOM PLANS FOR MOUNTING DETAILS. NEMA 5-20R; HUBBELL SERIES HBL5362SA
 - DUPLEX RECEPTACLE; 125V; 20A; 3 POLE GND; HALF-CONTROLLED RECEPTACLE; MT 18" AFF TO C/L UNLESS NOTED OTHERWISE; NEMA 5-20R; HUBBELL SERIES BR20C1
 - COMBINATION POWER/TELECOM FLOOR BOX; FOUR DUPLEX RECEPTACLES; 125V; 20A; 3 POLE GND; NEMA 5-20R; HUBBELL SERIES HBL5352; REFER TO TELECOM AND AV PLANS FOR FLOOR BOX PART NUMBERS, INSTALLATION DETAILS AND LOCATION.
 - LETTERS "+XX" ADJACENT TO SYMBOL INDICATES RECEPTACLE MOUNTING HEIGHT.
+AC" = ABOVE COUNTER.
+DF" = VERIFY HEIGHT FOR DRINKING FOUNTAIN WITH MECHANICAL CONTRACTOR
+TV" = VERIFY HEIGHT OF TV WITH OWNER.
+DW" = DISHWASHER RECEPTACLE, VERIFY MOUNTING REQUIREMENTS WITH MECHANICAL CONTRACTOR.
 - DRYER RECETACLE; 250V, 30A, 3P, 4W, NEMA 14-30R; HUBBELL SERIES HBL9430.
 - WALL SWITCH; 120/277V; 20A; 1 POLE; A.C. ONLY; MT 48" AFF TO C/L; HUBBELL SERIES HBL1221
 - WALL SWITCH; 120/277V; 20A; 1 POLE; A.C. ONLY; MT 48" AFF TO C/L; HUBBELL SERIES HBL1221; IN WEATHER PROOF ENCLOSURE
 - WALL SWITCH; 120/277V; 20A; VACANCY SENSOR DUAL TECHNOLOGY MULTI-WAY TYPE; MT 48" AFF TO C/L; REFER TO SPECS; WATTSTOPPER #DWS-301-W.
 - LOW VOLTAGE WALL SWITCH; CONNECT TO NETWORKED ROOM CONTROLLER OR LIGHTING CONTROL PANEL; MT 48" AFF TO C/L; REFER TO SPECS; SEE LIGHTING CONTROL DETAILS. NUMBER "N" INDICATES BUTTON COUNT; REFER TO LOW VOLTAGE SWITCH MATRIX FOR SPECIFIC INFORMATION.
 - MOTOR CONTROL SWITCH; 600V; 30A; 2 POLE; A.C. ONLY; NEAR OR ON EQUIPMENT BEING SERVED; HUBBELL SERIES 30102D.
 - WALL SWITCH; 120/277V; 20A; 1 POLE; A.C. ONLY; MT 48" AFF TO C/L; HUBBELL SERIES HBL1221; IN WEATHER PROOF ENCLOSURE
 - RED MUSHROOM PUSH-BUTTON WITH KEY RELEASE; MT. 60" AFF TO C/L. LABEL 'EMERGENCY STOP', EQUAL TO SQUARE D MODEL XB6AS9345B
 - LIGHTING CONTROLS SYSTEM NETWORK BRIDGE; INSTALL CONCEALED ABOVE CEILING; REFER TO LIGHTING CONTROLS DETAILS
 - LIGHTING CONTROLS ROOM CONTROLLER; INSTALL CONCEALED ABOVE CEILING SPACE; REFER TO LIGHTING CONTROLS DETAILS
 - LOW VOLTAGE OCCUPANCY SENSOR; 360° DUAL-TECHNOLOGY TYPE; CEILING MOUNTED; UNLESS OTHERWISE NOTED; REFER TO LIGHTING CONTROLS DETAILS
 - LOW VOLTAGE VACANCY SENSOR; 360° DUAL-TECHNOLOGY TYPE; CEILING MOUNTED; UNLESS OTHERWISE NOTED; REFER TO LIGHTING CONTROLS DETAILS
 - PANEL; 120/208V; MT 72" AFF TO TOP
 - NON-FUSED DISCONNECT SWITCH; AMP SIZE AS NOTED
 - RACEWAY INSTALLED CONCEALED IN WALLS AND/OR ABOVE CEILING
 - RACEWAY INSTALLED CONCEALED IN FLOOR SLAB AND/OR BELOW GRADE
 - EMERGENCY RACEWAY INSTALLED CONCEALED
 - FLEXIBLE CONDUIT CONNECTION
 - CONDUIT STUB UP WITH FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT
 - DATA SYSTEM WALL OUTLET WITH ONE(1) RJ-45 JACK AND COVERPLATE; MT 18" AFF TO C/L UNLESS NOTED OTHERWISE - INSTALL 3/4"C WITH PULLRIBBON UP INTO CEILING SPACE.
 - FIRE ALARM SYSTEM MANUAL PULL STATION; MT 48" AFF TO C/L
 - FIRE ALARM SYSTEM SIGNAL HORN/STROBE; MT 80" AFF TO BOTTOM, "110" INDICATES CANDELA RATING, NO NUMBER INDICATES 75 CANDELA MINIMUM
 - FIRE ALARM SYSTEM EXTERIOR, WEATHERPROOF SIGNAL HORN; MT 90" AFF TO BOTTOM
 - FIRE ALARM SYSTEM STROBE; MT 80" AFF TO BOTTOM, "110" INDICATES CANDELA RATING, NO NUMBER INDICATES 75 CANDELA MINIMUM
 - FIRE ALARM SYSTEM AUTOMATIC HEAT DETECTOR; 135 DEGREE/RATE OF RISE TYPE; CEILING MOUNTED
 - FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR; CEILING MOUNTED
 - FIRE ALARM SYSTEM CARBON MONOXIDE DETECTOR; CEILING MOUNTED
 - FIRE SPRINKLER SYSTEM FLOW/TAMPER SWITCH
 - TELEVISION CABLE WALL OUTLET WITH COAXIAL SCREW JACK AND COVERPLATE; MT 18" AFF TO C/L - INSTALL 3/4"C WITH PULLRIBBON UP INTO CEILING SPACE.
 - PHOTOCCELL; REFER TO LIGHTING CONTROL DIAGRAM

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ABBREVIATIONS

- AFF - ABOVE FINISHED FLOOR
- C - CONDUIT
- C/L - CENTERLINE
- EC - ELECTRICAL CONTRACTOR
- EF - EXHAUST FAN
- GND - GROUND CONDUCTOR
- GFI - GROUND FAULT PROTECTION
- LTG - LIGHTING
- LTS - LIGHTS
- REC - RECEPTACLE
- UNO - UNLESS NOTED OTHERWISE
- WH - WATER HEATER
- WP - WEATHERPROOF
- A/C - AIR CONDITIONER
- COND - CONDENSING UNIT
- IHP - INDOOR HEAT PUMP
- OHP - OUTDOOR HEAT PUMP



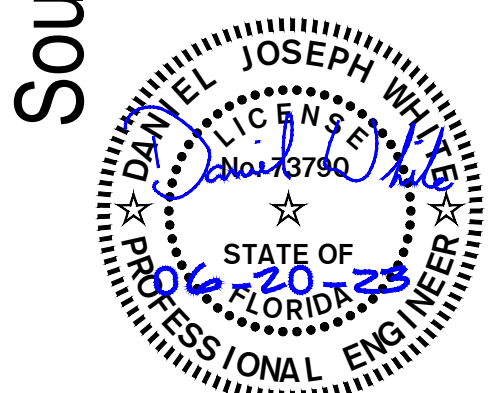
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New Headquarters Building

774 North County Highway 393
Santa Rosa Beach, Florida 32459



No.	Description	Date

LEGEND AND NOTES

Project number: 18106
Date: 06-20-2023
PIC CP
PM RE

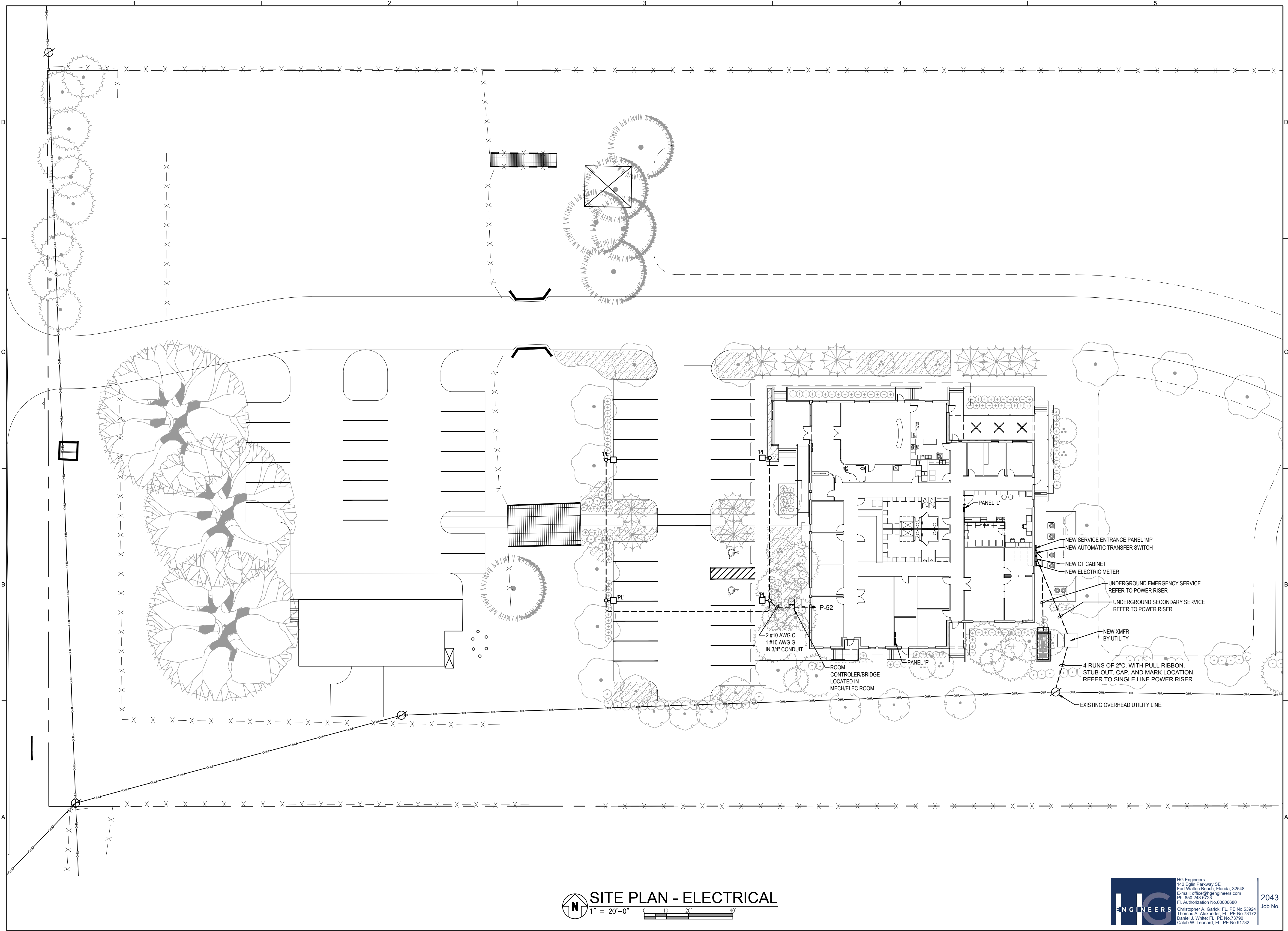


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2043
Job No.

E001

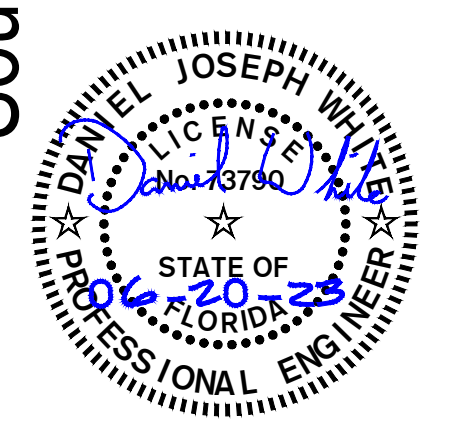
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SITE PLAN - ELECTRICAL

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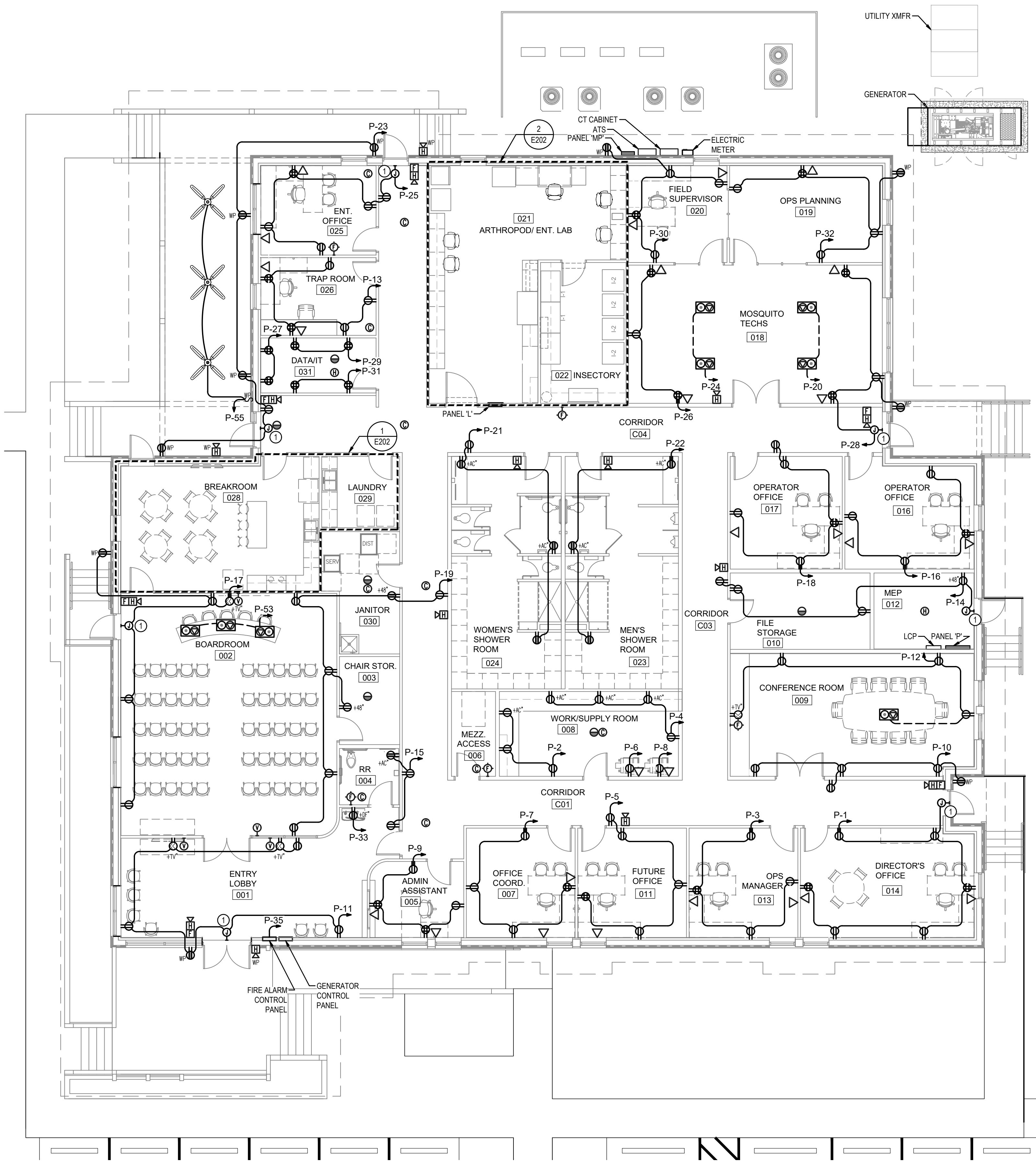
SITE PLAN - ELECTRICAL
 1" = 20'-0"



2043 Job No.

E101

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KEYNOTES

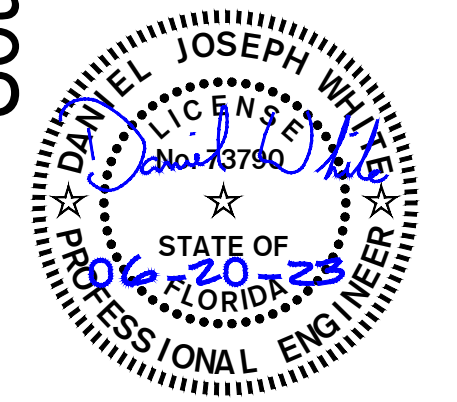
① PROVIDE POWER AT DOORS, TO BE TERMINATED BY OTHERS



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No.	Description	Date

FLOOR PLAN - POWER

FLOOR PLAN - POWER
 1/8" = 1'-0"

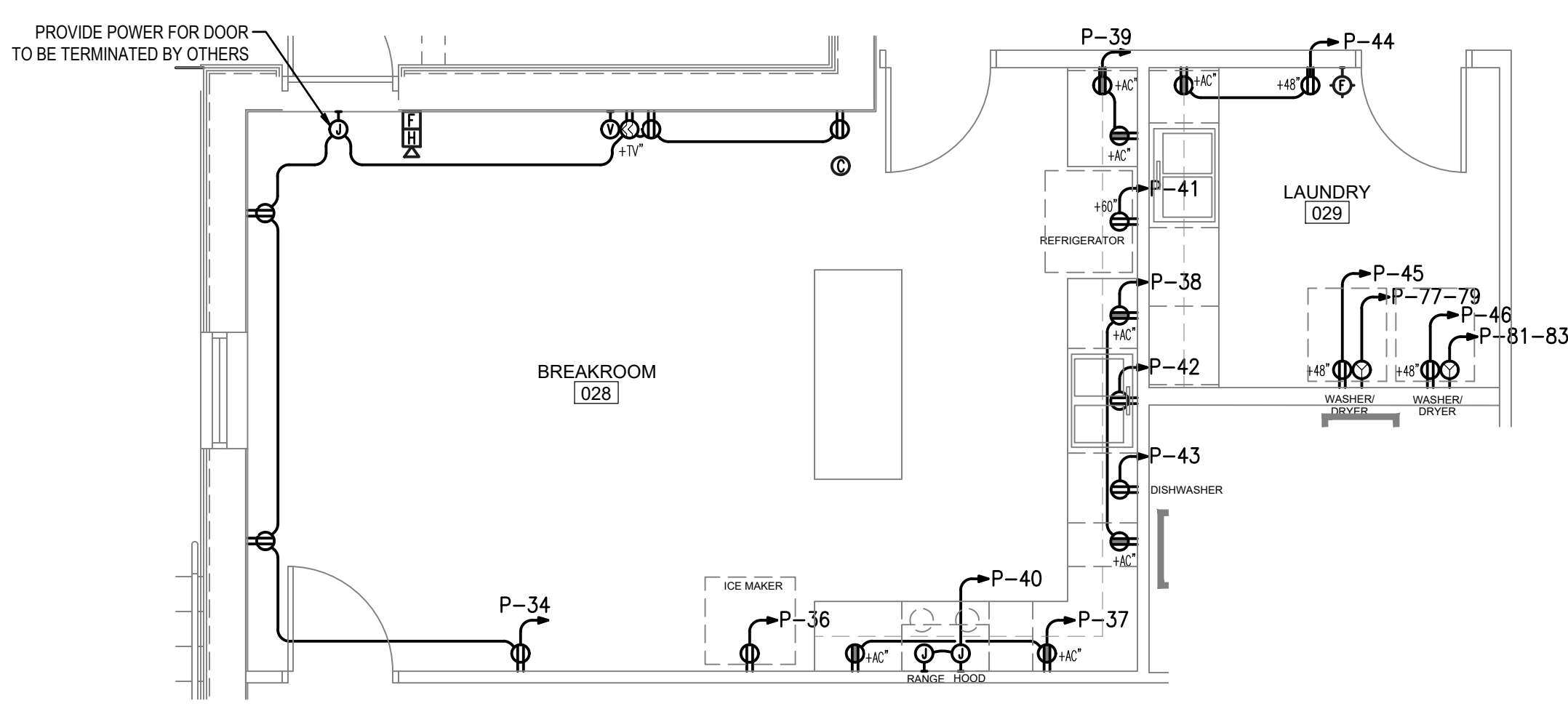
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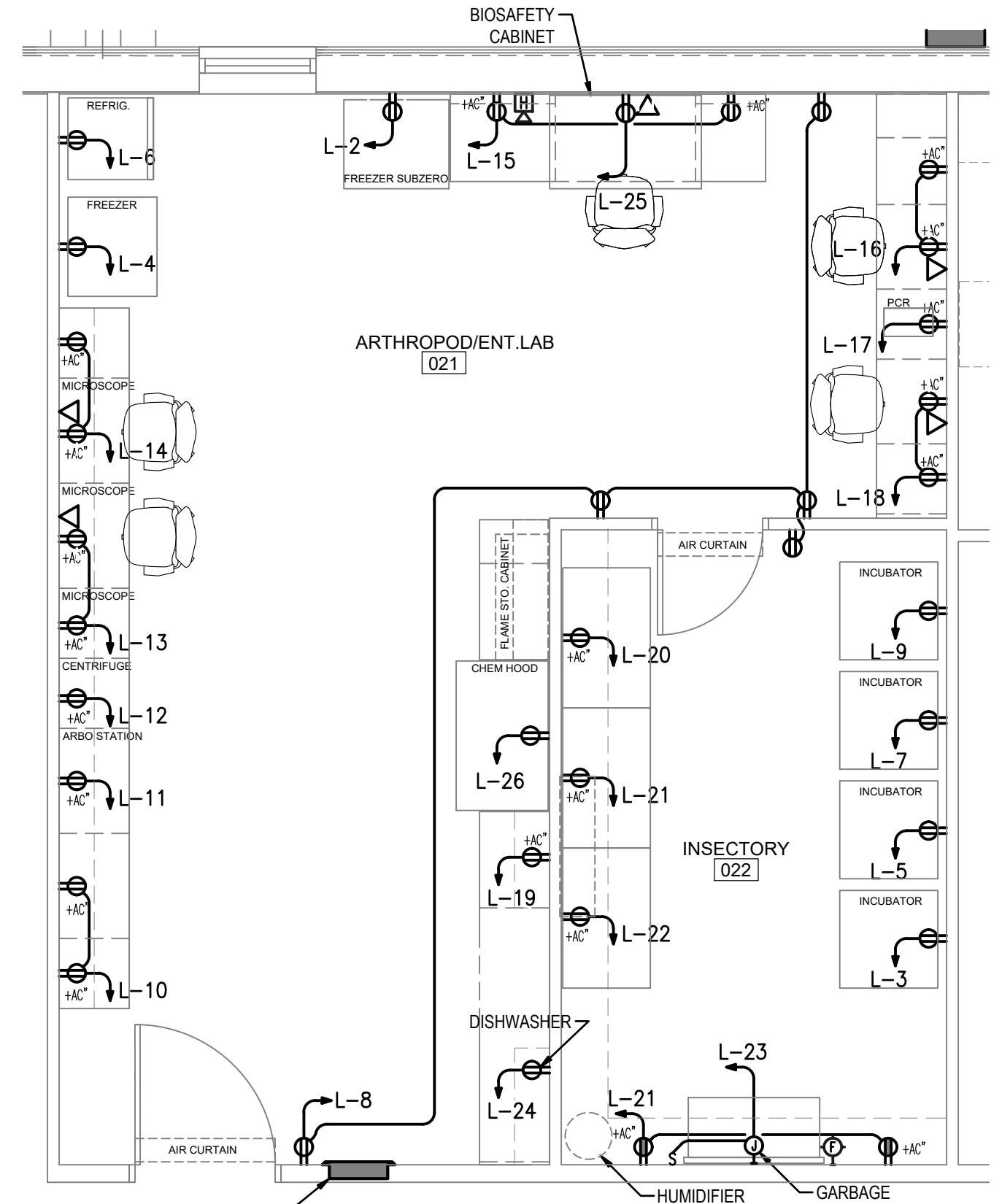
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1 BREAKROOM & LAUNDRY
1/4" = 1'-0"



2 ARTHROPOD LAB
1/4" = 1'-0"

LAB EQUIPMENT SCHEDULE

(VERIFY ALL EQUIPMENT CIRCUIT REQUIREMENTS WITH MANUFACTURERS SHOP DRAWINGS PRIOR TO ROUGH-IN)

DESCRIPTION	MANUFACTURER	MODEL	VOLT	Ø	ELECTRICAL LOAD							PROTECTION				CONDUCTOR / CONDUIT SIZE				DISC.	REMARKS
					QTY	LARGEST MOTOR(S) FLA	SUM OF REMAINING	ELECTRIC HEAT KW	OTHER VA	TOTAL CONNECTED VA	MCA	MCCP	TRIP	POLE	SETS	QTY.	SIZE	Ø	CONDUIT		
INCUBATOR	PERCIVAL	I-38VL	120	1	2	5.2	5.1			1236	13.3	20	20	1	1	2	#12	#12	3/4"	GF5-20R	TWO CORD CONNECTIONS
STIR TABLE																					
MINI REFRIGERATOR	GENERAL ELECTRIC	TAX4SNYBWH	120	1	1	4			480	6.3	20	20	1	1	2	#12	#12	3/4"	GF5-20R		
LARGE REFRIGERATOR	GENERAL ELECTRIC	TBX16SATDRWH	120	1	1	5			600	5	20	20	1	1	2	#12	#12	3/4"	GF5-20R		
LARGE CHEST FREEZER	THERMO SCIENTIFIC REVCO	CXF SERIES ULT350-10-A	120	1	1	6			720	10	15	15	1	1	2	#12	#12	3/4"	GF5-20R		
LARGE UPRIGHT FREEZER	FRIGIDAIR	FFFH20F2QW	120	1	1	5			600	6.3	20	20	1	1	2	#12	#12	3/4"	GF5-20R		
SHAKER INCUBATOR																					
BIO INCUBATOR																					
DISHWASHER	STEAM SCRUBBER FREESTANDING	705521	120	1					1000	1000	8.3	20	20	1	1	2	#12	#12	3/4"	GF5-20R	
BIOSAFETY CABINET	THERMO SCIENTIFIC 1300	CLASS II TYP A2 BIOLOGICAL	120	1	1	1.2			600	744	6.5	20	20	1	1	2	#12	#12	3/4"	GF5-20R	
CHEMICAL HOOD	SHELDON LABORATORY SYSTEMS	EH-111-48	120	1					1000	1000	8.3	20	20	1	1	2	#12	#12	3/4"	GF5-20R	
FLAMMABLE LOCKER	JUSTRITE	17-GAL																			

ENLARGED PLAN - POWER
1/4" = 1'-0"



2043
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ENLARGED PLAN - POWER

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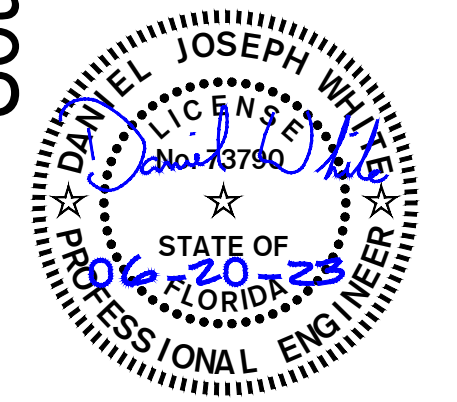


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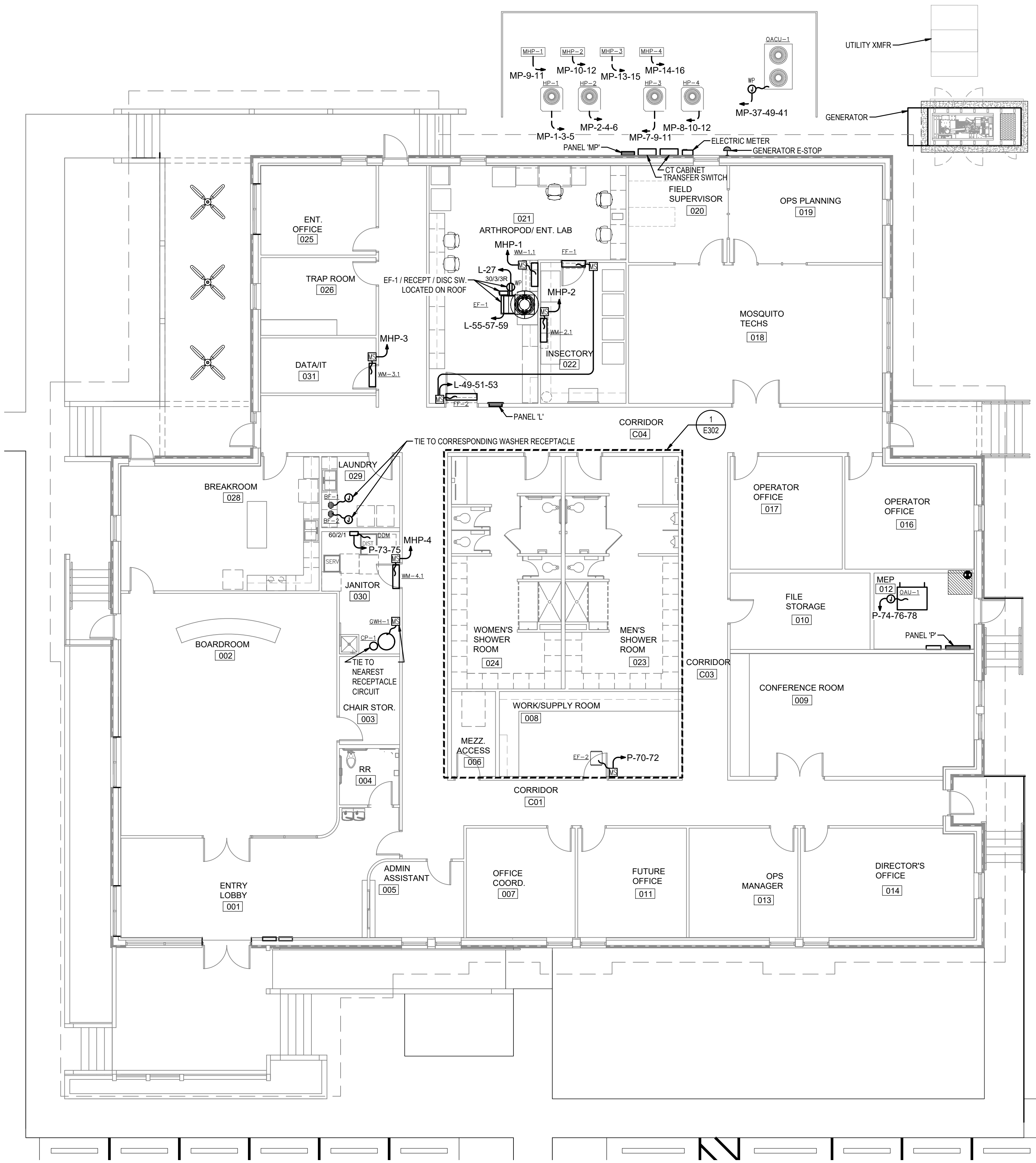
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E202

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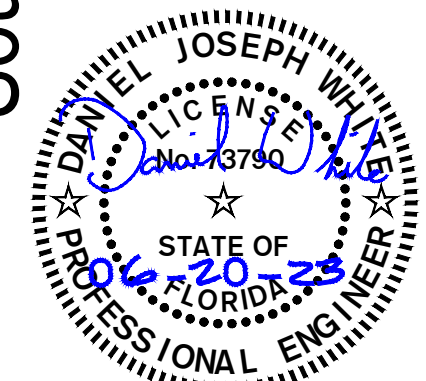


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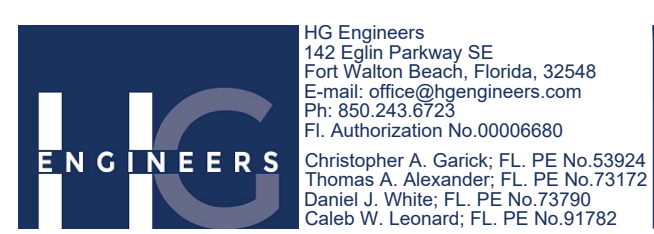


No.	Description	Date

FLOOR PLAN - HVAC

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FLOOR PLAN - HVAC
 1/8" = 1'-0"

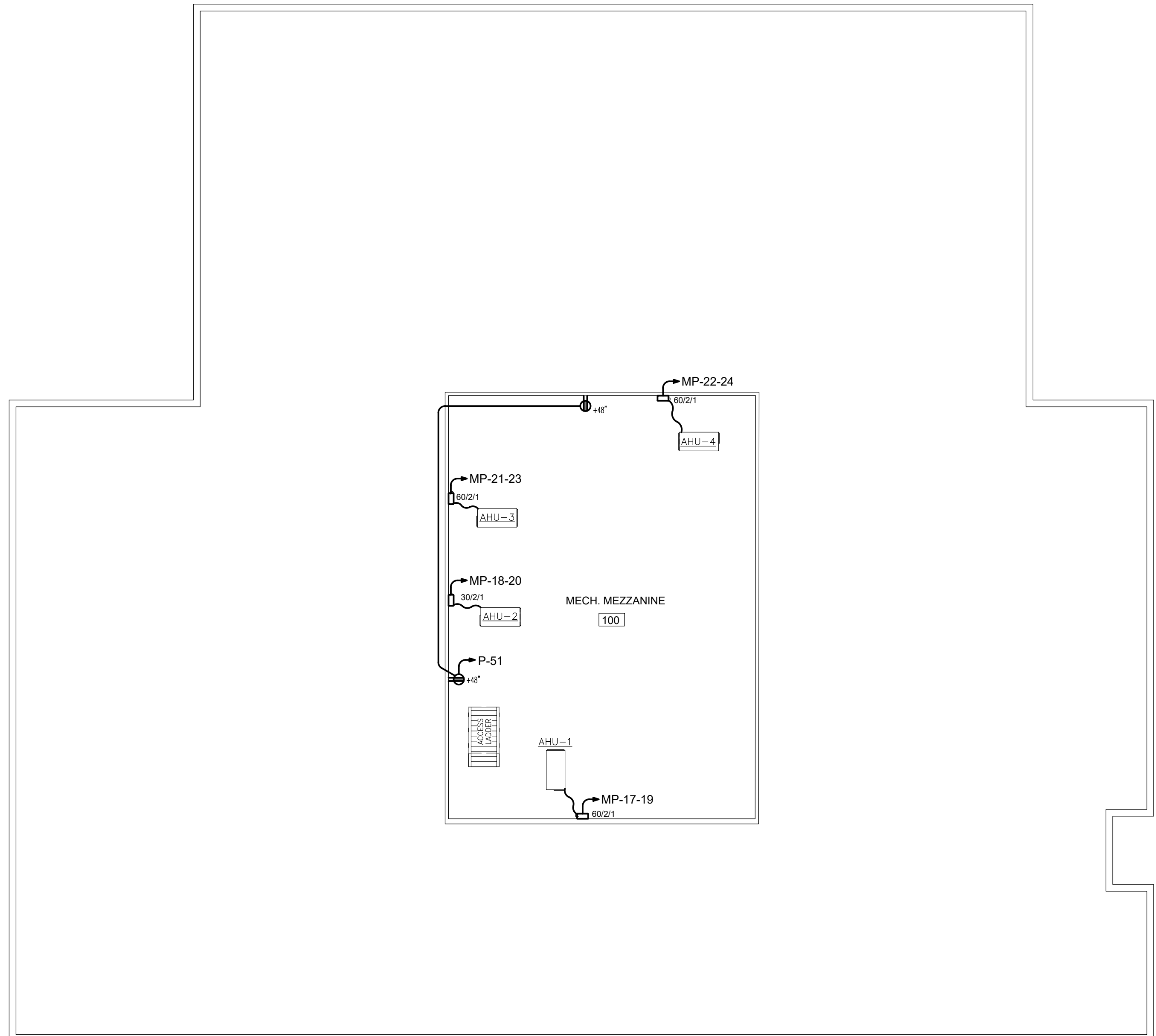




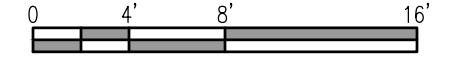
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E301

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MEZZANINE PLAN - HVAC
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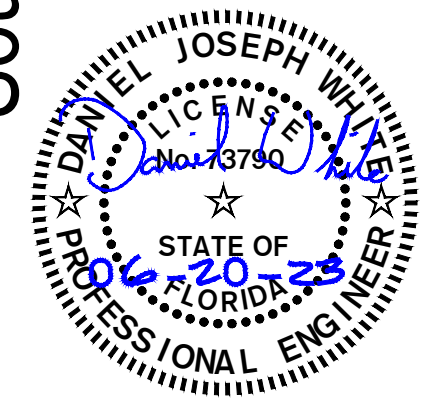


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MEZZANINE PLAN - HVAC

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E302

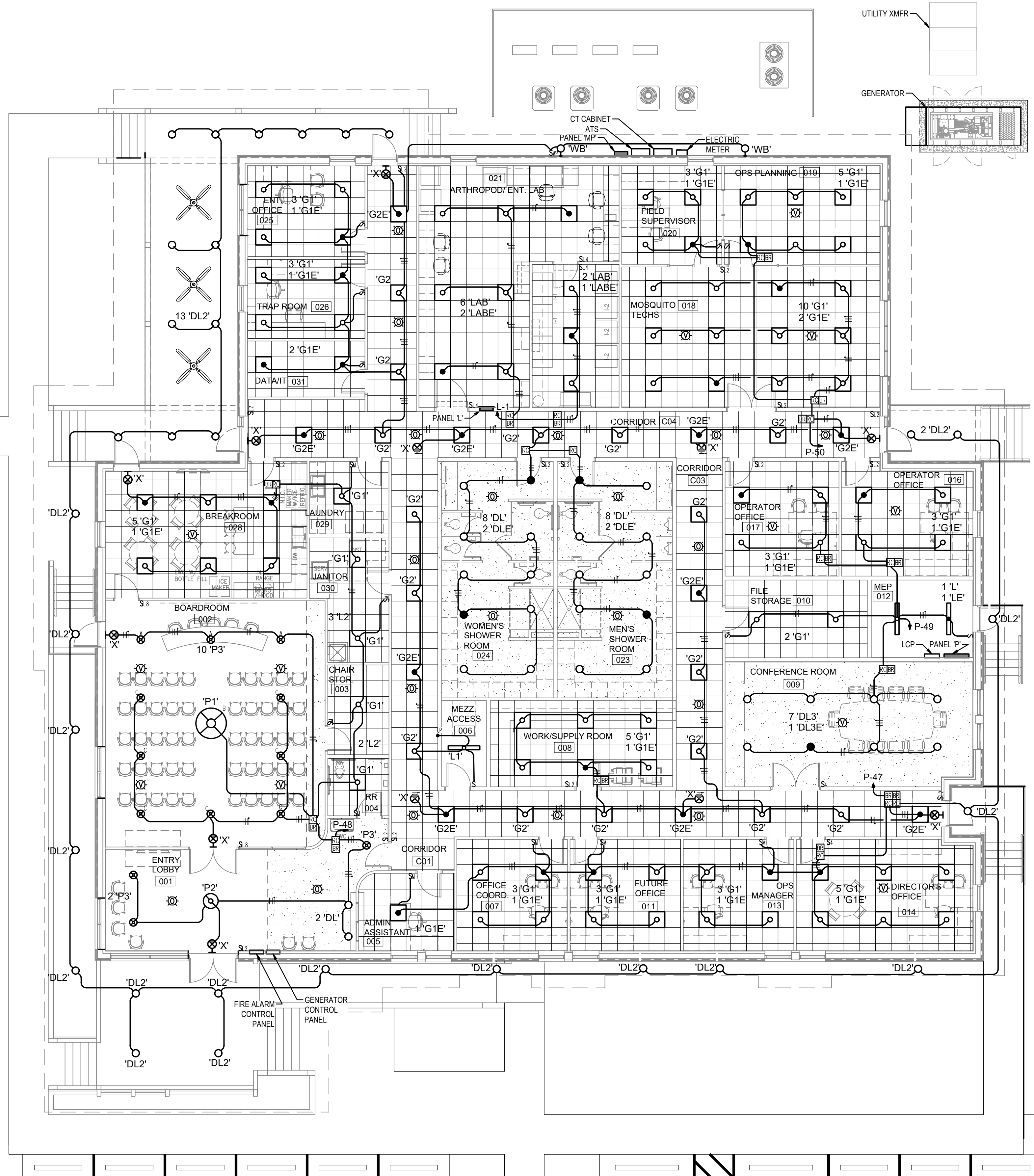


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NUMBER OF INSTRUMENTS OF SERVICE



FLOOR PLAN - LIGHTING
 1/8" = 1'-0"



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Job No. 2043

Project number: 18106
 Date: 06-20-2023
 PIC: CP
 PM: RE

No.	Description	Date

FLOOR PLAN - LIGHTING

E401

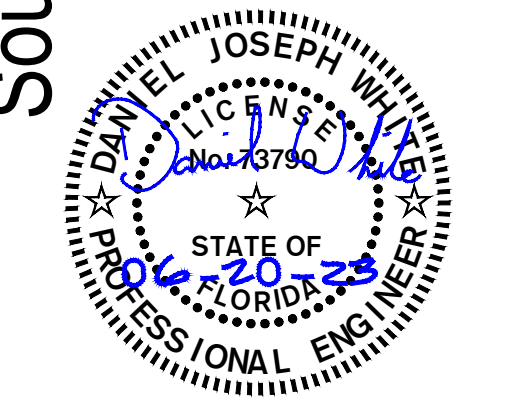


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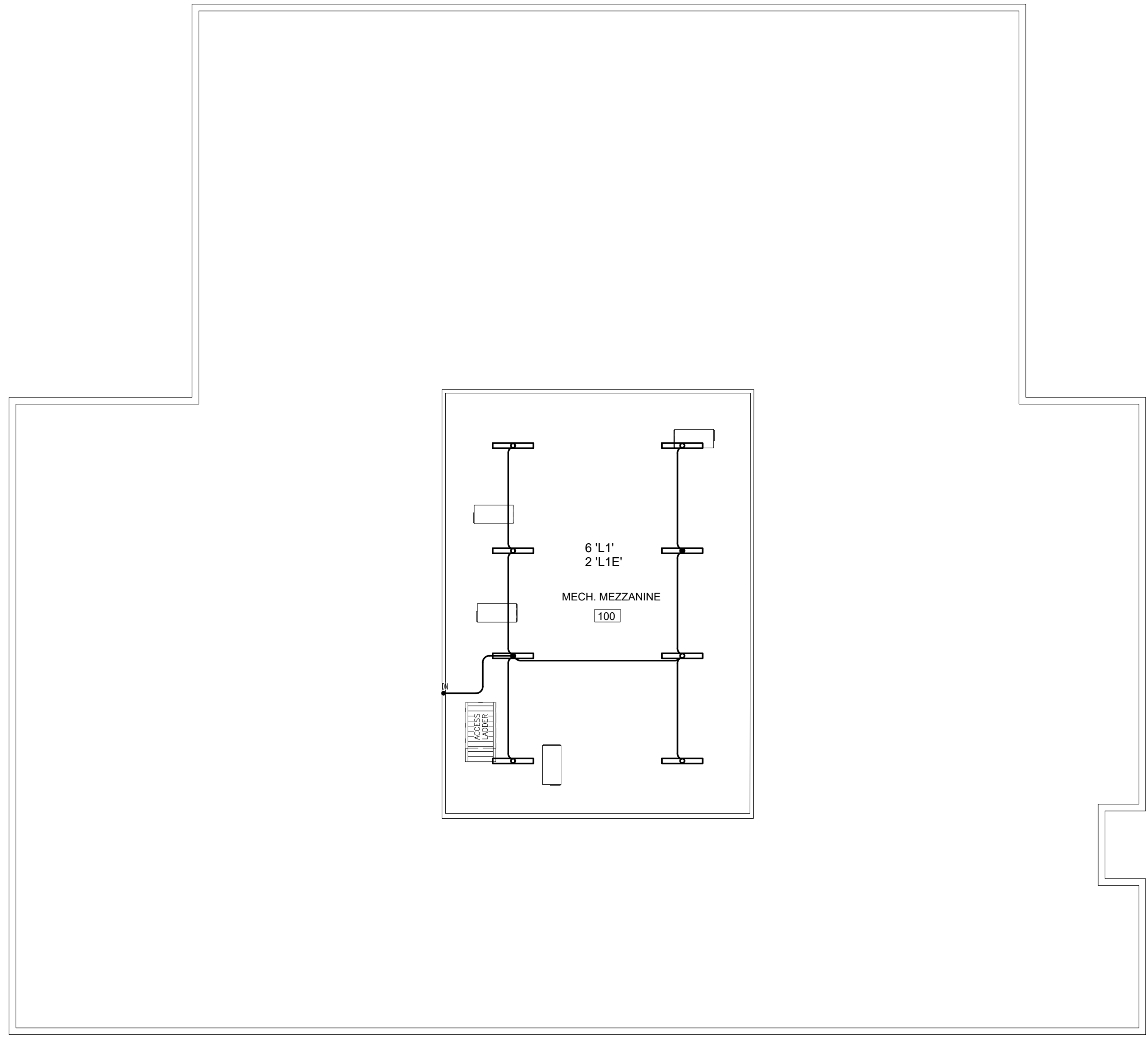
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**South Walton County Mosquito Control District
 New Headquarters Building**

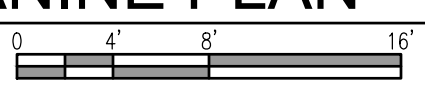
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MEZZANINE PLAN - LIGHTING
 1/8" = 1'-0"

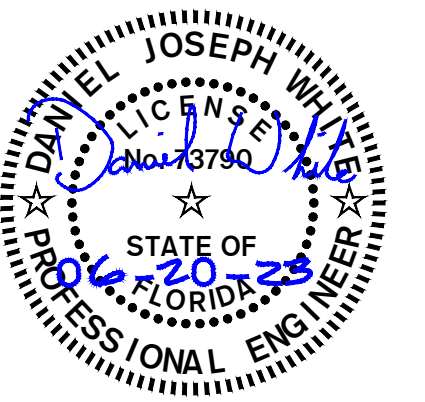


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MEZZANINE PLAN - LIGHTING

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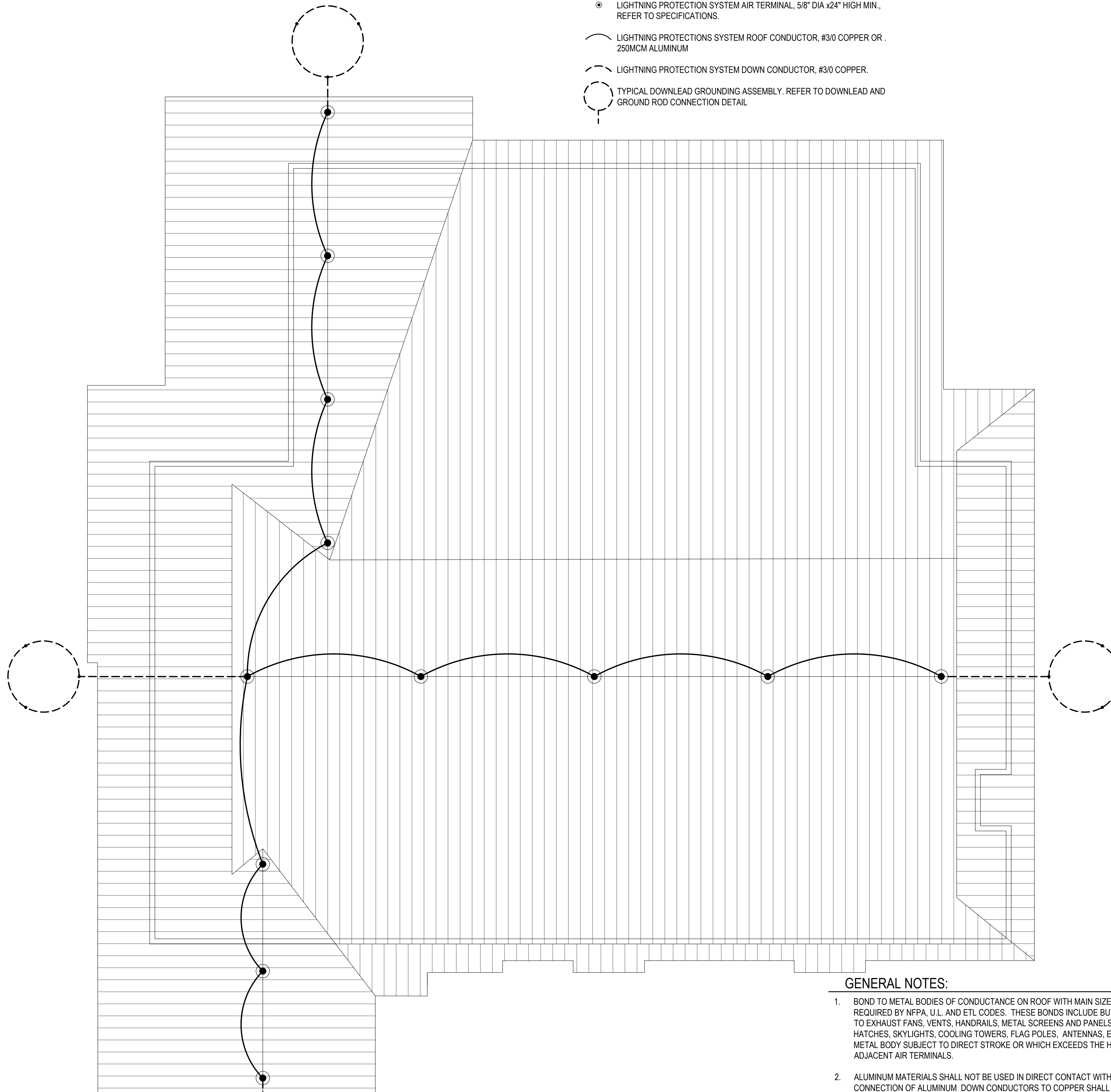
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LIGHTNING PROTECTION SYSTEM SYMBOLS

- ⊙ LIGHTNING PROTECTION SYSTEM AIR TERMINAL, 5/8" DIA x24" HIGH MIN., REFER TO SPECIFICATIONS.
- LIGHTNING PROTECTION SYSTEM ROOF CONDUCTOR, #3/0 COPPER OR .250MCM ALUMINUM
- - - LIGHTNING PROTECTION SYSTEM DOWN CONDUCTOR, #3/0 COPPER.
- ⊙ TYPICAL DOWNLEAD GROUNDING ASSEMBLY. REFER TO DOWNLEAD AND GROUND ROD CONNECTION DETAIL.



ROOF PLAN - LIGHTNING PROTECTION
 1/8" = 1'-0"
 0 4 8 16

GENERAL NOTES:

- BOND TO METAL BODIES OF CONDUCTANCE ON ROOF WITH MAIN SIZE CONDUCTORS AS REQUIRED BY NFPA, U.L. AND ETL CODES. THESE BONDS INCLUDE BUT ARE NOT LIMITED TO EXHAUST FANS, VENTS, HANDRAILS, METAL SCREENS AND PANELS, H.V.A.C. UNITS, HATCHES, SKYLIGHTS, COOLING TOWERS, FLAG POLES, ANTENNAS, ETC. OR ANY LARGE METAL BODY SUBJECT TO DIRECT STROKE OR WHICH EXCEEDS THE HEIGHT OF ADJACENT AIR TERMINALS.
- ALUMINUM MATERIALS SHALL NOT BE USED IN DIRECT CONTACT WITH EARTH. CONNECTION OF ALUMINUM DOWN CONDUCTORS TO COPPER SHALL BE MADE AT A POINT NO LESS THAN 1 FOOT ABOVE GRADE LEVEL. FITTINGS CONNECTING THE ALUMINUM DOWN CONDUCTORS TO COPPER SHALL BE OF THE BIMETALLIC TYPE SPECIALLY DESIGNED AND APPROVED FOR MAKING CONNECTIONS BETWEEN THE DISSIMILAR METALS. REFER TO SPECIFICATIONS.
- CONNECT LIGHTNING PROTECTION SYSTEM TO MAIN GROUND BAR. SEE GROUNDING DETAIL.
- COORDINATE INSTALLATION WITH SITE WORK. DO NOT DISTURB FINISHED SITE WORK, LANDSCAPING, AND/OR NEW SOD INSTALLATION.
- INSTALL U.L. LISTED LIGHTNING PROTECTION SYSTEM PER THE LIGHTNING PROTECTION INSTITUTE (LP) STANDARDS. INSTALLATION MUST BEAR U.L. MASTER LABEL.

SHEET NOTES

- GROUND RINGS SHALL BE INSTALLED IN DIRECT CONTACT WITH THE EARTH AT A DEPTH OF 30 INCHES BELOW GRADE, OR BELOW THE FROST LINE, WHICHEVER IS DEEPER.
- BUILDING GROUND RINGS SHALL BE INSTALLED AT LEAST 3 FEET FROM THE BUILDING OR STRUCTURE FOUNDATION AND SHOULD BE INSTALLED BEYOND THE DRIP LINE OF THE ROOF OF BUILDING OR STRUCTURE
- THE DESIGN & DETAILS SHOWN WILL MEET THE REQUIREMENTS OF UNDERWRITERS LABORATORY CODE 96/96A, NATIONAL FIRE PROTECTION ASSOCIATION CODE 780 & THE LIGHTNING PROTECTION INSTITUTE CODE 175 FOR LIGHTNING PROTECTION SYSTEMS
- JOB CONDITIONS MAY DICTATE SLIGHT VARIATIONS IN AIR TERMINAL AND GROUND ROD LOCATIONS

BONDING & GROUNDING NOTES

- ALL MISCELLANEOUS STEEL INCLUDING BUT NOT LIMITED TO STRUCTURAL STEEL, REBAR, FRAMING & RAILINGS, SHALL BE MADE ELECTRICALLY CONTINUOUS THROUGH CONSTRUCTION (NOT THE RESPONSIBILITY OF THE LIGHTNING PROTECTION CONTRACTOR.)
- ELECTRICAL GROUNDING ELECTRODE SYSTEM, AND OTHER MISCELLANEOUS GROUNDING SYSTEM SHALL BE CONNECTED WITH MAIN SIZED CONDUCTOR TO ANY LIGHTNING PROTECTION SYSTEM.
- METAL BODIES OF INDUCTANCE LOCATED WITHIN 6' OF A MAIN LIGHTNING CONDUCTOR SHALL BE BONDED TO THE LIGHTNING PROTECTION SYSTEM. (INCLUDING BUT NOT LIMITED TO EXHAUST FANS, VENTS, HANDRAILS, METAL SCREENS AND PANELS, HVAC UNITS, HATCHES, SKYLIGHTS, COOLING TOWERS, FLAG POLES, ANTENNAS, ETC. OR ANY LARGE METAL BODY SUBJECT TO DIRECT STRIKE OR WHICH EXCEEDS THE HEIGHT OF ADJACENT AIR TERMINALS.)
- CONNECTIONS TO GROUND AND/OR COUNTERPOISE SHALL BE MADE AT A POINT NOT LESS THAN 2'-0" BELOW GRADE, AND 3'-0" TO 8'-0" AWAY FROM FOUNDATION WALL.

AIR TERMINAL SPACING

- PERIMETER AIR TERMINALS THAT ARE LESS THAN 24" IN HEIGHT SHALL BE SPACED AT 20'-0" O.C. MAX. PERIMETER AIR TERMINALS THAT ARE 24" IN HEIGHT OR GREATER SHALL BE SPACED AT 25'-0" O.C. MAX. (NFPA 780 EDITION 2020 SECTION 4.7.2.2 & 4.7.2.3)
- MID-ROOF AIR TERMINALS FOR GENTLY SLOPING OR FLAT ROOFS SHALL BE SPACED AT 50'-0" O.C. MAX. SPACING. (NFPA 780 EDITION 2020 SECTION 4.7.5.1)
- AIR TERMINAL SHALL BE PLACED NOT MORE THAN 2'-0" FROM THE ENDS OF RIDGES, OUTSIDE CORNERS, OR OUTSIDE EDGES OF MAIN ROOFS (NFPA 780 EDITION 2020 SECTION 4.7.2.1), AND MUST EXTEND A MINIMUM OF 10" ABOVE THE OBJECT TO BE PROTECTED. (NFPA 780 EDITION 2020 SECTION 4.6.2.1). SEE "TYPICAL PLACEMENT OF AIR TERMINALS AT OUTSIDE CORNERS" DETAIL
- PROVIDE AIR TERMINAL BRACING FOR TERMINALS LONGER THAN 24" (NFPA 780 EDITION 2020 SECTION 4.6.2.2).

MATERIAL REQUIREMENTS

- CLASS I MATERIALS ARE REQUIRED FOR STRUCTURE LESS THAN 75'-0" IN HEIGHT (NFPA 780 EDITION 2020 SECTION 4.1.1.1.1).
- CLASS II MATERIALS ARE REQUIRED FOR BUILDINGS GREATER THAN 75'-0" IN HEIGHT (NFPA 780 EDITION 2020 SECTION 4.1.1.1.2).
- COPPER MATERIAL MAY NOT BE PLACED ON METALS WHICH ARE INCOMPATIBLE. THESE AREAS WILL BE SUBSTITUTED WITH ALUMINUM COMPONENTS.
- ALL ADHESIVE FIXTURES SHALL BE SET WITH AN ADHESIVE COMPOUND COMPATIBLE WITH THE ROOFING MATERIAL. ADHESIVES SHALL BE APPROVED IN ADVANCE BY THE ROOFING CONTRACTOR.
- CABLE MUST BE FASTENED EVERY 3'-0" O.C. MAXIMUM.
- ALUMINUM MATERIALS SHALL NOT BE USED IN DIRECT CONTACT WITH EARTH. CONNECTION OF ALUMINUM CONDUCTORS TO COPPER SHALL BE MADE AT A POINT NO LESS THAN 18" ABOVE GRADE LEVEL. FITTINGS CONNECTING THE ALUMINUM CONDUCTORS TO COPPER SHALL BE OF THE BIMETALLIC TYPE SPECIALLY DESIGNED AND APPROVED FOR MAKING CONNECTIONS BETWEEN THE DISSIMILAR METALS.
- CONDUCTORS SHALL MAINTAIN A HORIZONTAL OR DOWNWARD PATH FREE FROM "U" AND "V" POCKETS. ANY RISE IN CONDUCTOR SHALL BE NO STEEPER THAN 3" OF RISE PER 12" OF RUN.

MINIMUM CLASS I MATERIAL REQUIREMENTS			
TYPE OF CONDUCTOR	PARAMETER	COPPER	ALUMINUM
AIR TERMINAL, SOLID	DIAMETER	3/8"	1/2"
	DIAMETER	5/8"	5/8"
AIR TERMINAL, TUBULAR	CROSS-SECTION	57,400 cir mils	98,600 cir mil
	STRAND SIZE	17 AWG	14 AWG
MAIN CONDUCTOR	CROSS-SECTION	26,240 cir mils	41,100 cir mil
	STRAND SIZE	17 AWG	14 AWG
BONDING CONDUCTOR	CROSS-SECTION	17 AWG	14 AWG
	STRAND SIZE	17 AWG	14 AWG

CLASS I MAIN CONDUCTOR SUMMARY
 CLASS I-COPPER: MINIMUM GAUGE 2 AWG, WITH MINIMUM INDIVIDUAL STRAND SIZE OF 17 AWG
 CLASS I-ALUMINUM: MINIMUM GAUGE 1/0 AWG, WITH MINIMUM INDIVIDUAL STRAND SIZE OF 14 AWG.

CLASS I SECONDARY CONDUCTOR SUMMARY
 CLASS I-COPPER: MINIMUM GAUGE 6 AWG, WITH MINIMUM INDIVIDUAL STRAND SIZE OF 17 AWG
 CLASS I-ALUMINUM: MINIMUM GAUGE 4 AWG, WITH MINIMUM INDIVIDUAL STRAND SIZE OF 14 AWG.

MINIMUM CLASS II MATERIAL REQUIREMENTS			
TYPE OF CONDUCTOR	PARAMETER	COPPER	ALUMINUM
AIR TERMINAL, SOLID	DIAMETER	1/2"	5/8"
	DIAMETER	5/8"	5/8"
MAIN CONDUCTOR	CROSS-SECTION	115,000 cir mils	192,000 cir mil
	STRAND SIZE	15 AWG	13 AWG
BONDING CONDUCTOR	CROSS-SECTION	26,240 cir mils	41,100 cir mil
	STRAND SIZE	17 AWG	14 AWG

CLASS II MAIN CONDUCTOR SUMMARY
 CLASS II-COPPER: MINIMUM GAUGE 2/0 AWG, WITH MINIMUM INDIVIDUAL STRAND SIZE OF 15 AWG.
 CLASS II-ALUMINUM: MINIMUM GAUGE 4/0 AWG, WITH MINIMUM INDIVIDUAL STRAND SIZE OF 13 AWG

CLASS II SECONDARY CONDUCTOR SUMMARY
 CLASS II-COPPER: MINIMUM GAUGE 6 AWG, WITH MINIMUM INDIVIDUAL STRAND SIZE OF 17 AWG.
 CLASS II-ALUMINUM: MINIMUM GAUGE 4 AWG, WITH MINIMUM INDIVIDUAL STRAND SIZE OF 14 AWG

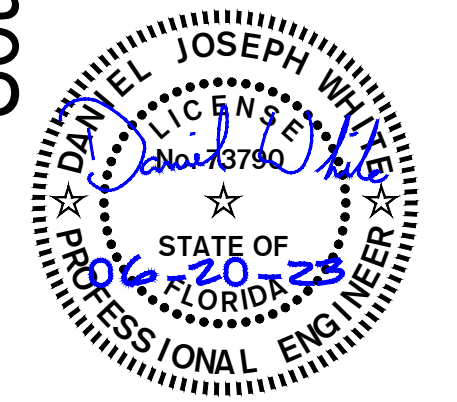


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ROOF PLAN - LIGHTNING PROTECTION

Project number: 18106
 Date: 06-20-2023
 PIC: CP
 PM: RE

ENGINEERS

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2043 Job No.

E501

WARNING

MAXIMUM AVAILABLE FAULT CURRENT

SYMMETRICAL RMS AMPERES

DATE OF CALCULATION

EQUIPMENT NAME

COMPANY RESPONSIBLE FOR CALCULATION CONTACT INFORMATION; COMPANY NAME, ADDRESS, PHONE NUMBER

ORANGE

WHITE

4" H x 6" W VINYL LABEL WITH BLACK LETTERING PER ANSI Z535 STANDARDS.

TYPICAL SERVICE EQUIPMENT FAULT CURRENT LABEL DETAIL

NOT TO SCALE

WARNING

Arc Flash and Shock Risks Appropriate PPE Required

ARC FLASH RISK PROTECTION	MINIMUM PPE
Incident Energy: 1.3 cal/cm ²	<ul style="list-style-type: none"> 4 cal/sq cm, FR shirt (long-sleeve) plus FR pants (long), or FR coverall, rainwear as needed. Hardhat + Safety Glasses or Goggles + Ear Canal Inserts Glove Class 00 Leather work shoes
Arc Flash Boundary 19 in	
SHOCK PROTECTION	
Shock Risk When Cover is Removed 480 VAC	
Limited Approach: 42 in	
Restricted Approach: 12 in	

Bus ID: _____ Calculated Fault Current: _____

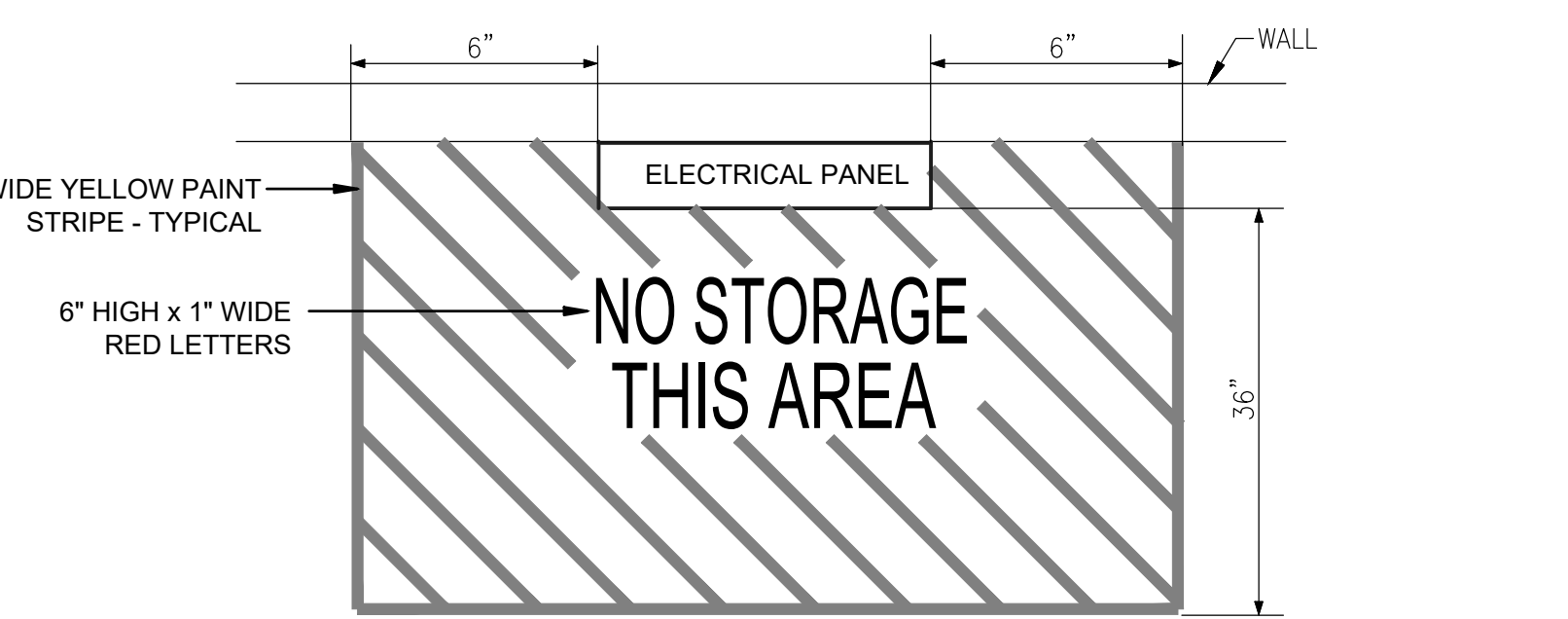
Prot Device ID: _____ Date of Analysis: _____

Warning: Changes in equipment settings or system configuration may invalidate the calculated results.

4" H x 6" W VINYL LABEL WITH BLACK LETTERING PER ANSI Z535 STANDARDS.

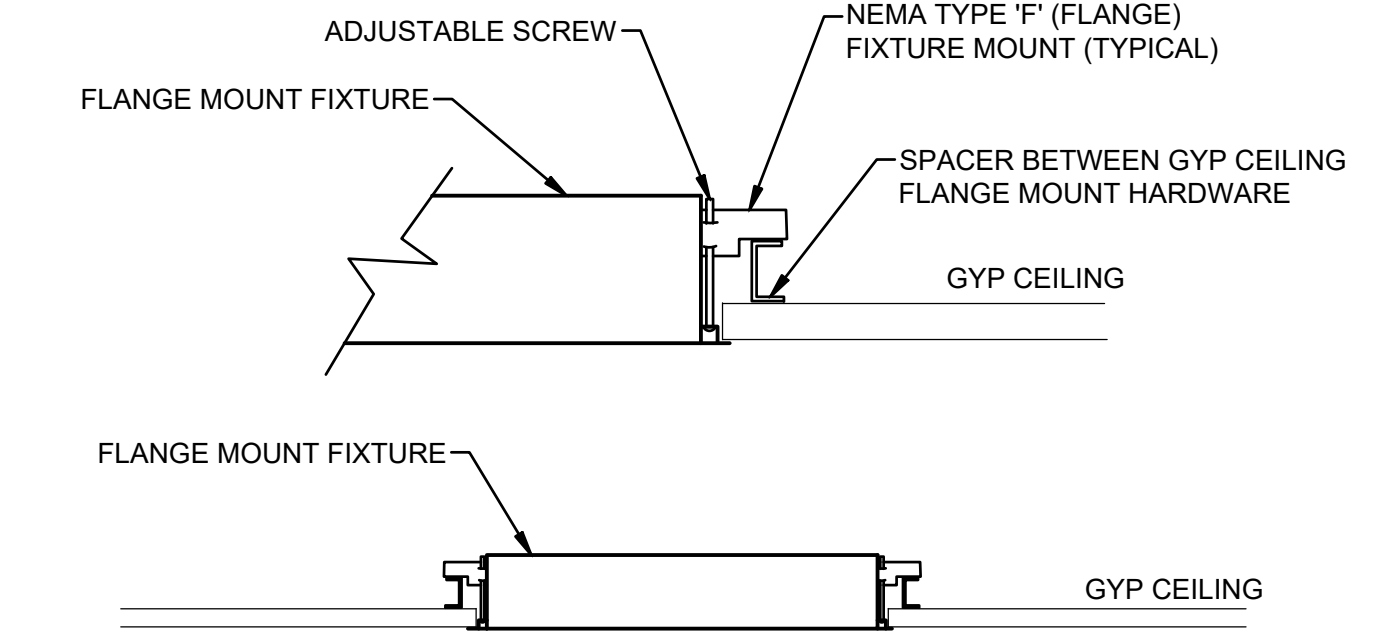
TYPICAL ARC FLASH HAZARD LABEL DETAIL

NOT TO SCALE



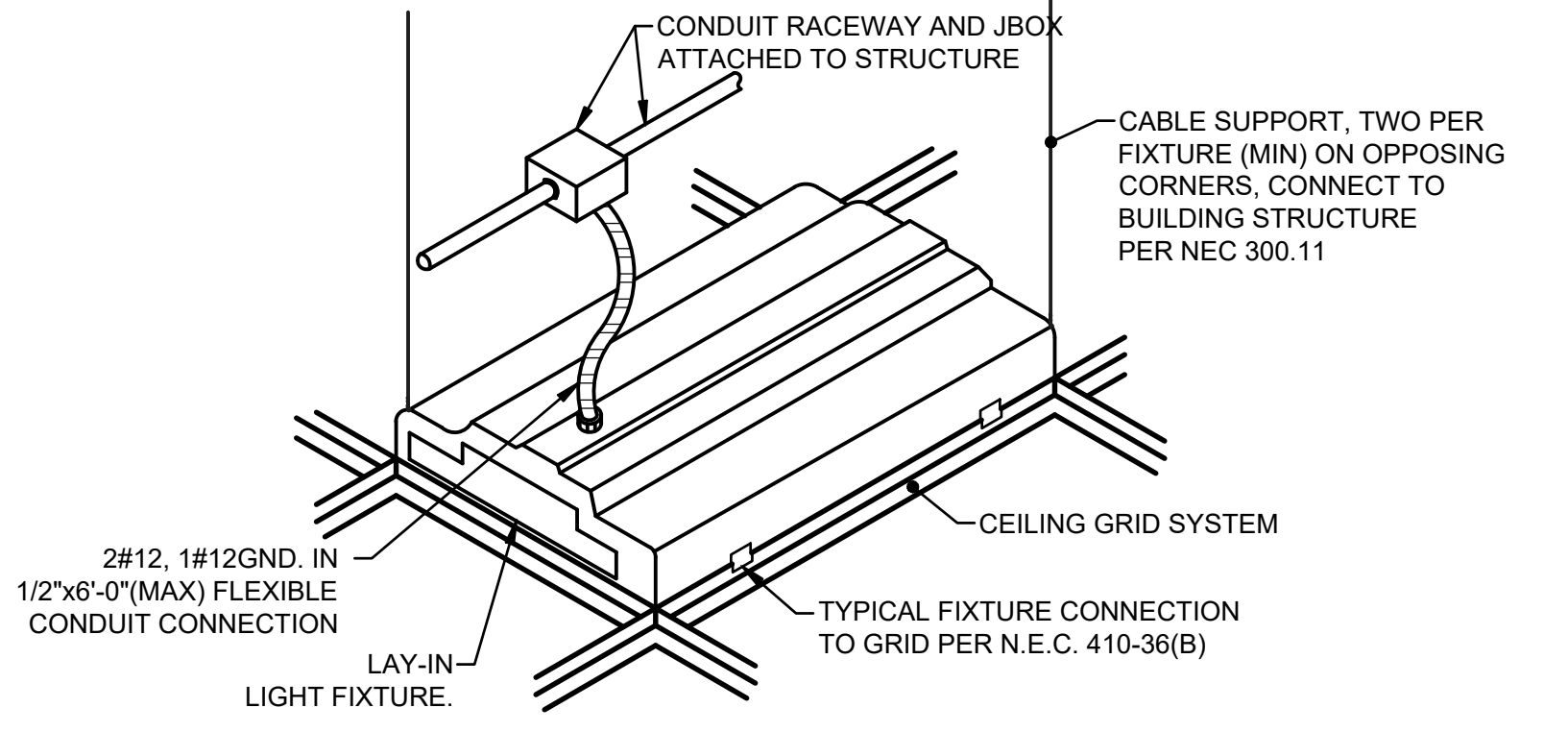
TYPICAL FLOOR MARKING AT ELECTRICAL PANELS

NOT TO SCALE



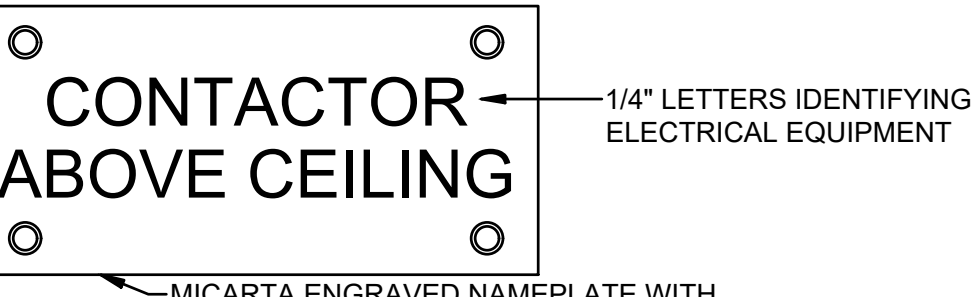
FLANGE MOUNT FIXTURE IN GYP BOARD CEILING

NOT TO SCALE



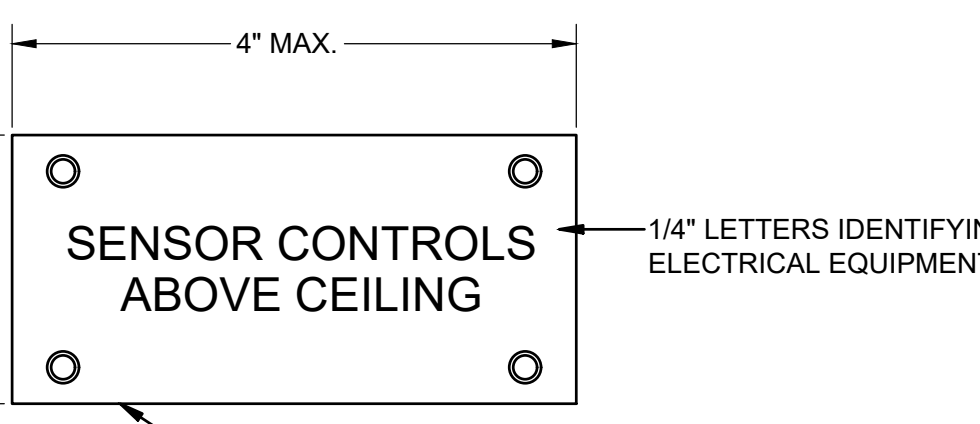
LAY-IN FIXTURE CABLE SUPPORT DETAIL

NOT TO SCALE



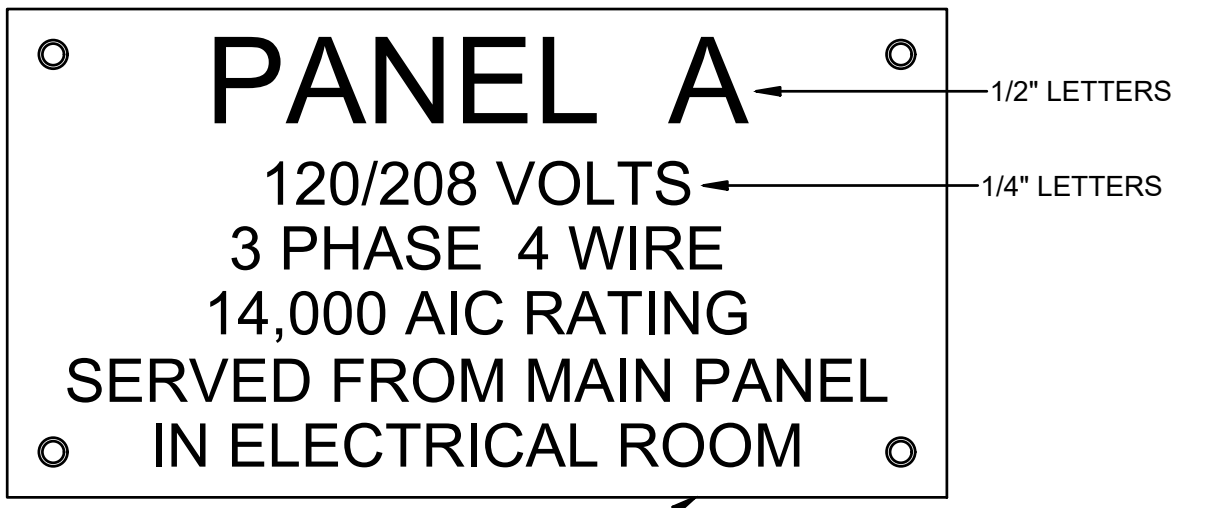
TYPICAL ELECTRICAL EQUIPMENT ABOVE CEILING NAMEPLATE

NOT TO SCALE



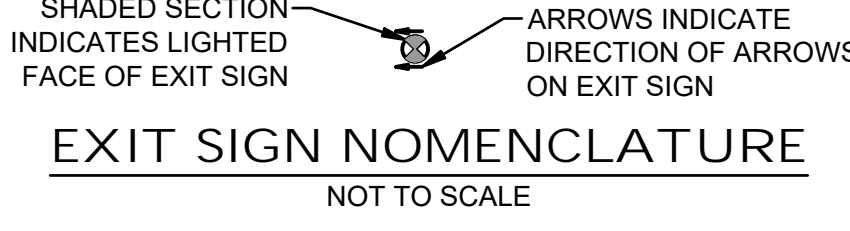
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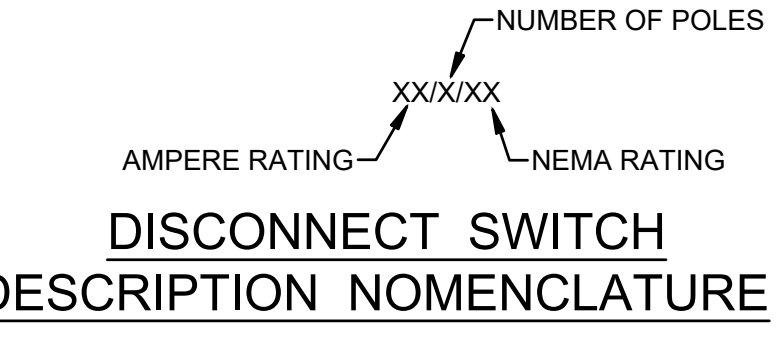
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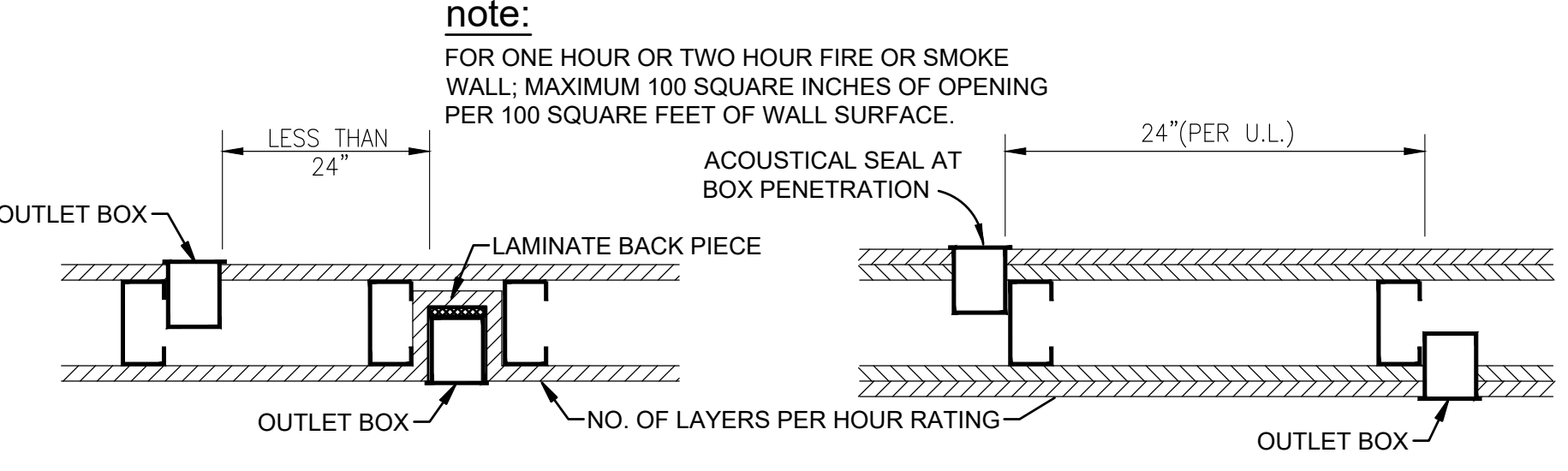


EXIT SIGN NOMENCLATURE

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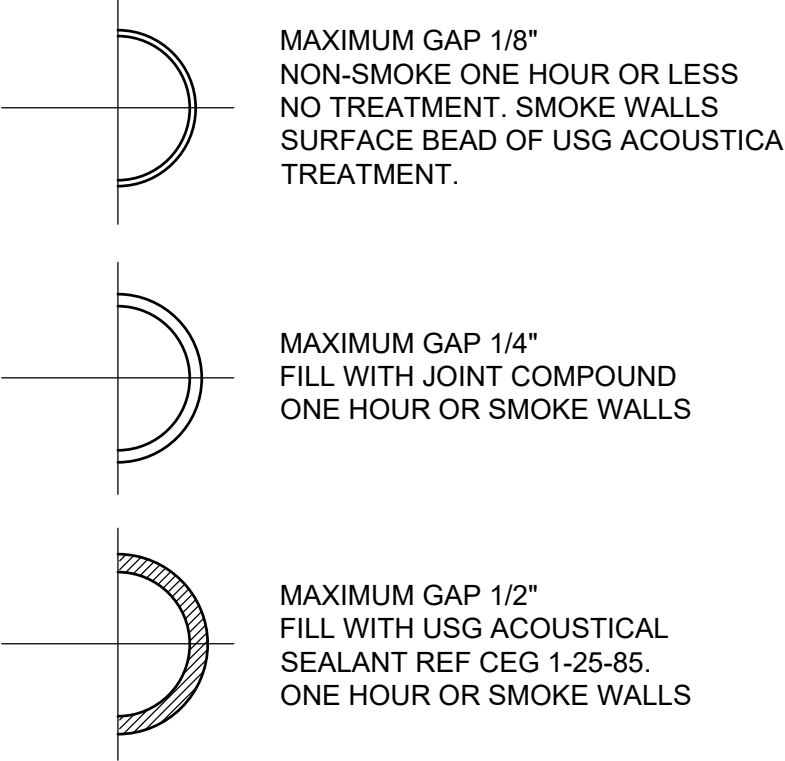


DISCONNECT SWITCH DESCRIPTION NOMENCLATURE

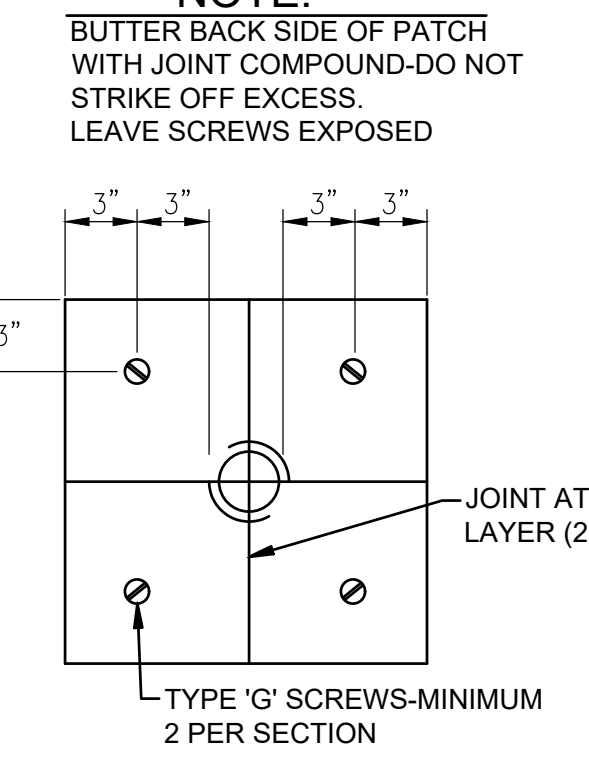


WALL DETAILS - ELECTRICAL BOX INSTALLATION

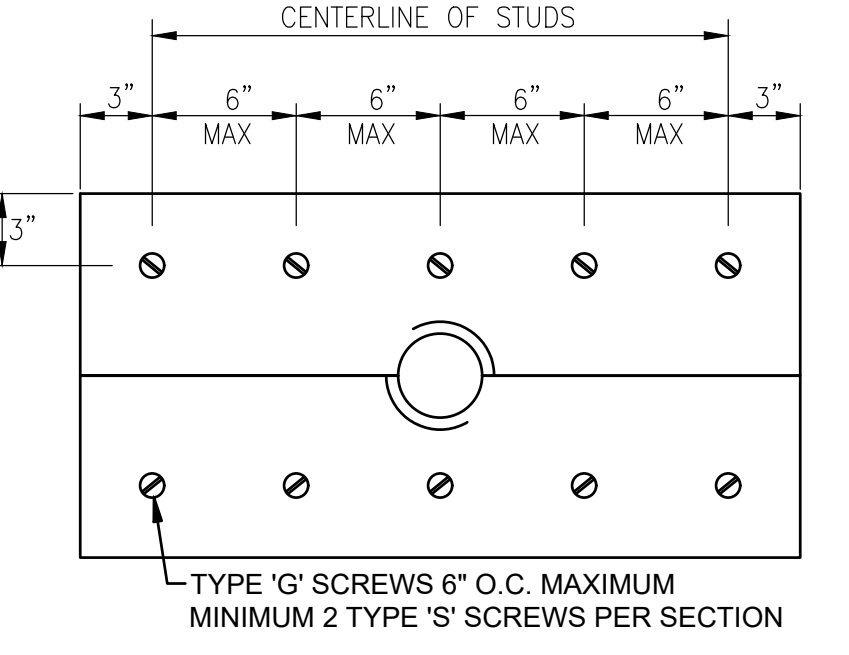
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SMALL DIAMETER GAPS IN ONE HOUR WALLS



OPENINGS UP TO 3" DIA.



OPENINGS OVER 3" DIA.

WALL PENETRATIONS -APPLIES TO ALL CORRIDOR, SMOKE AND FIRE RATED WALLS

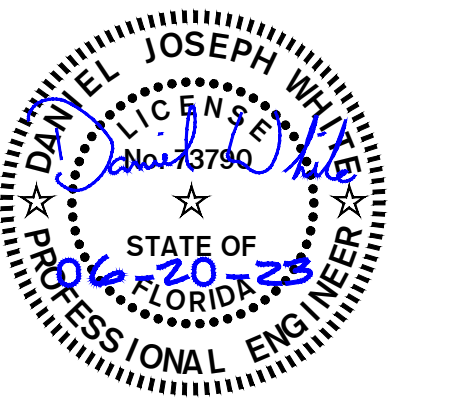
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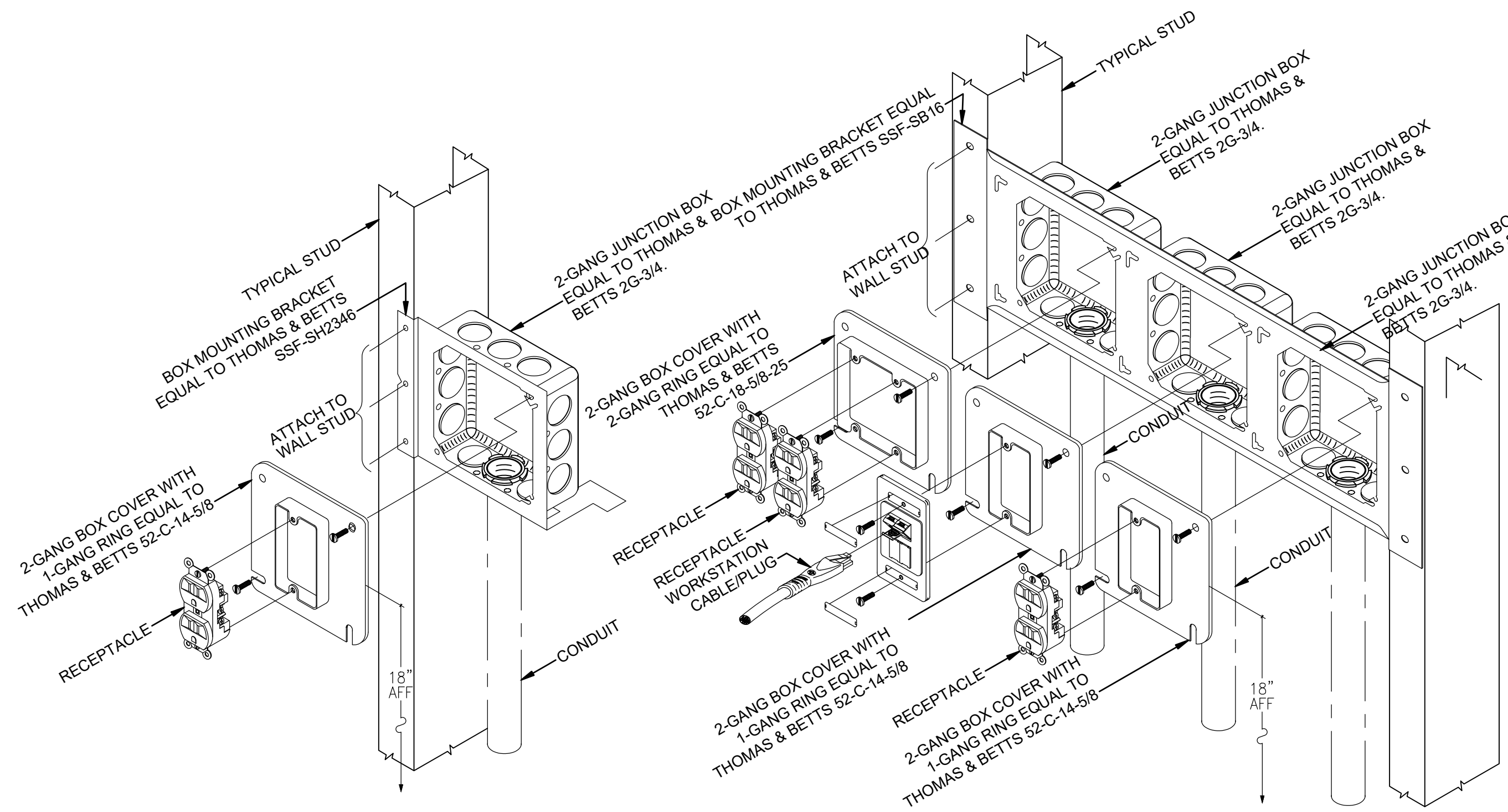
ELECTRICAL DETAILS

Project number: 18106
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E601

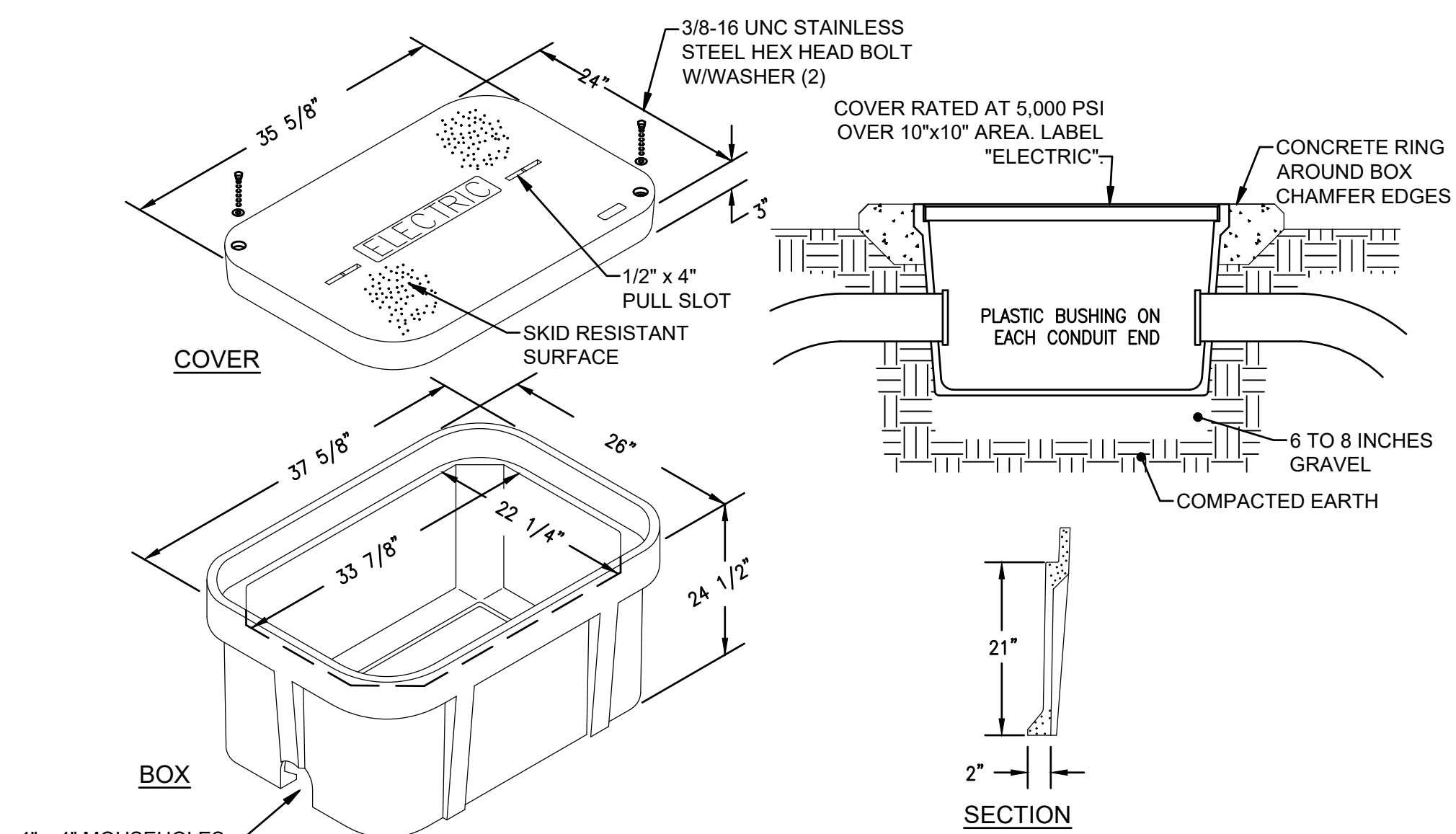
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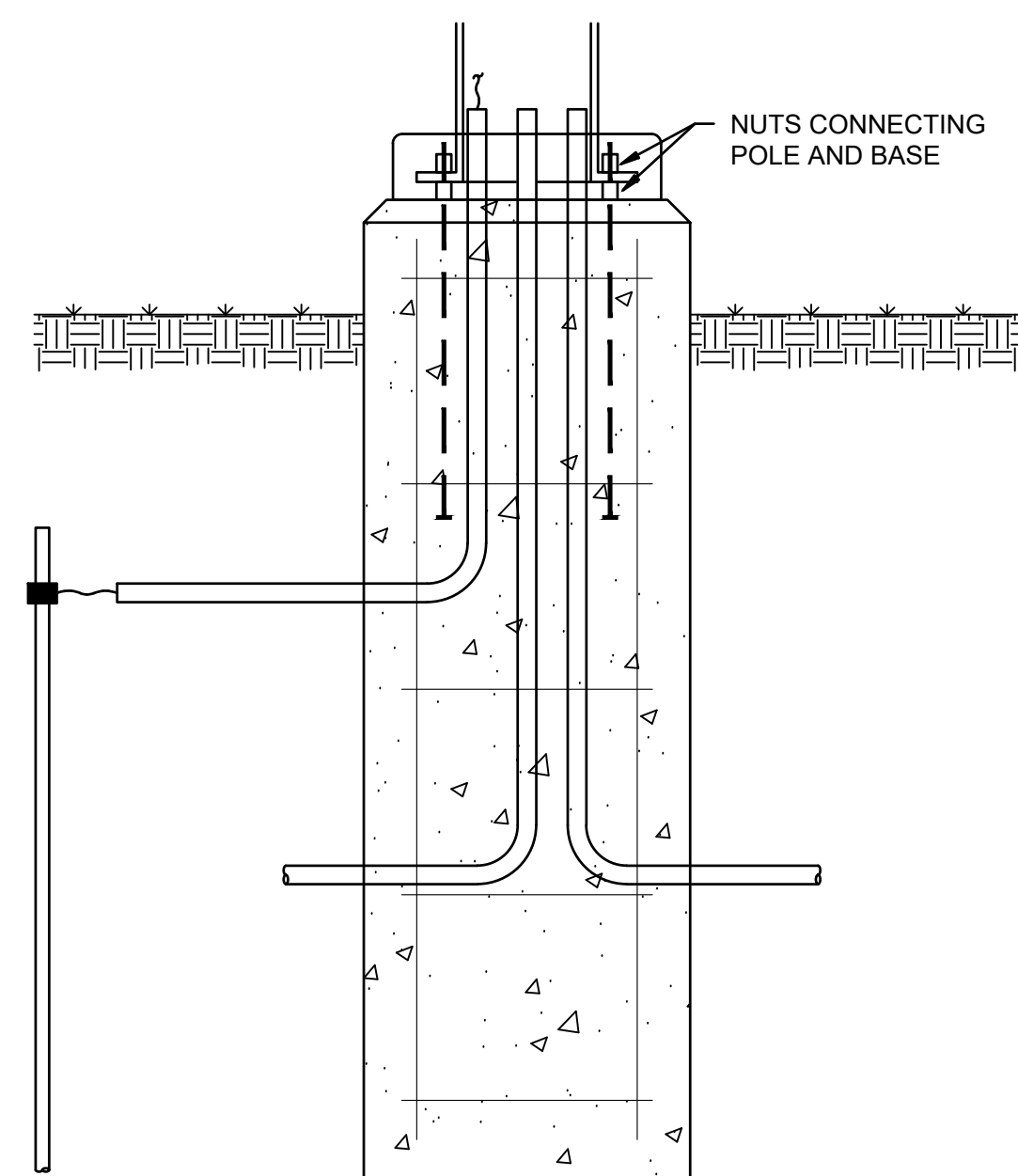


TYPICAL POWER OUTLET INSTALLATION DETAIL
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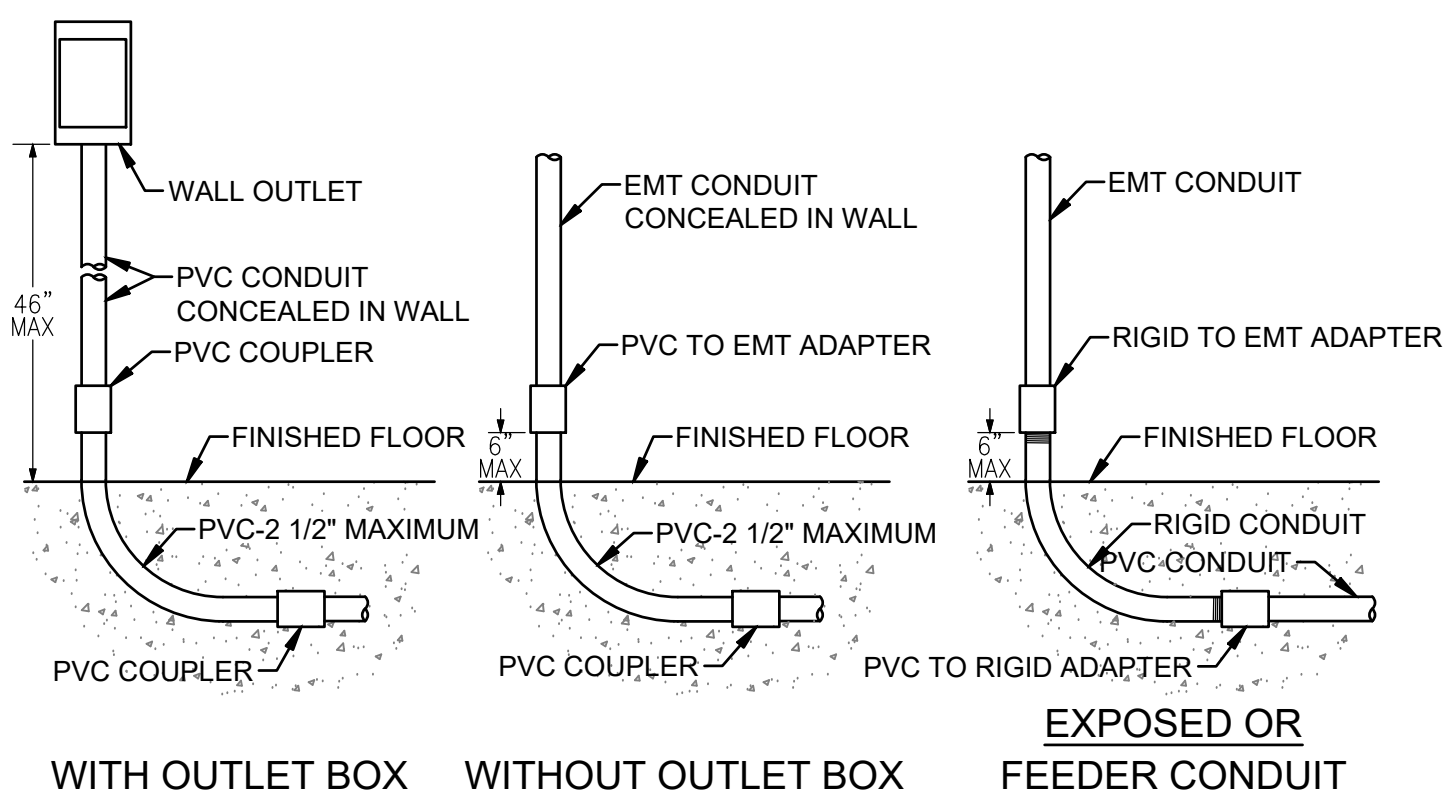
TYPICAL POWER/COMMUNICATIONS OUTLET INSTALLATION DETAIL
NOT TO SCALE



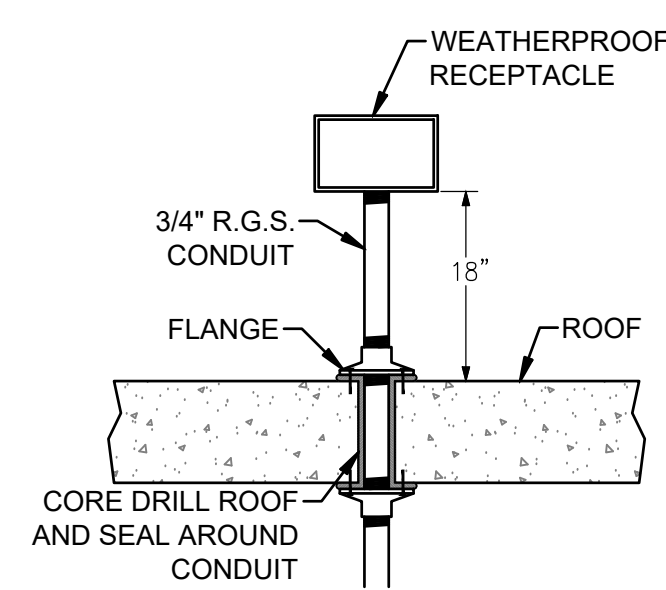
ELECTRICAL PULLBOX DETAIL
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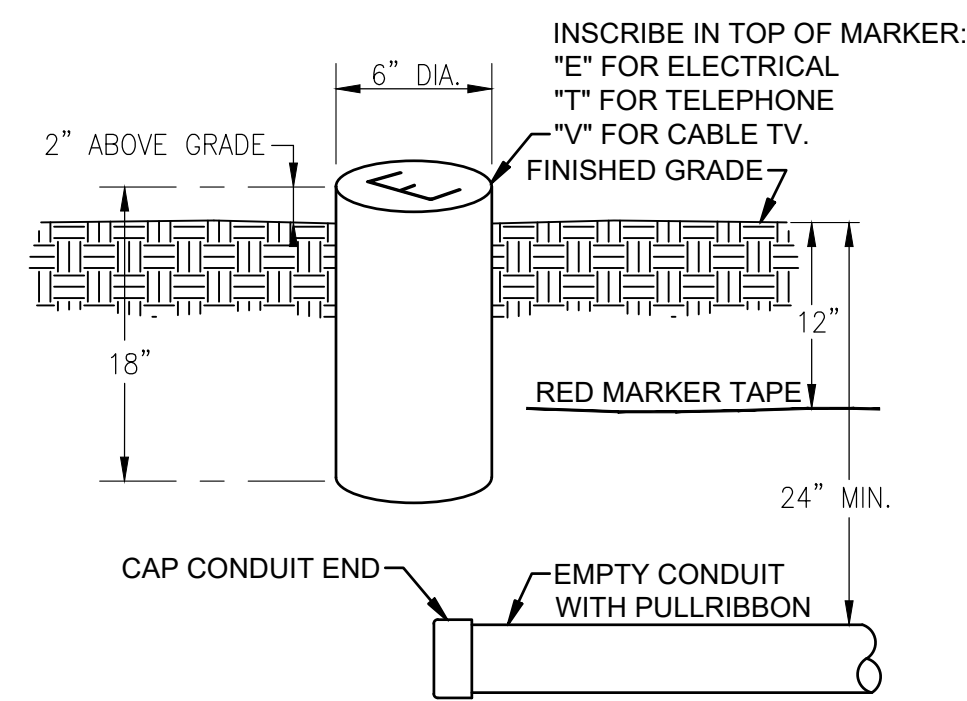
CONCRETE POLE BASE FOR FIXTURE "PL" & "PLA"
NOT TO SCALE



PVC STUB-UP DETAILS
NOT TO SCALE



ROOF MOUNTED WEATHERPROOF RECEPTACLE DETAIL
NOT TO SCALE



CONDUIT MARKER DETAIL
NOT TO SCALE

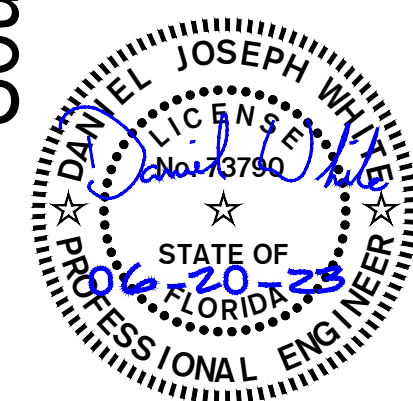


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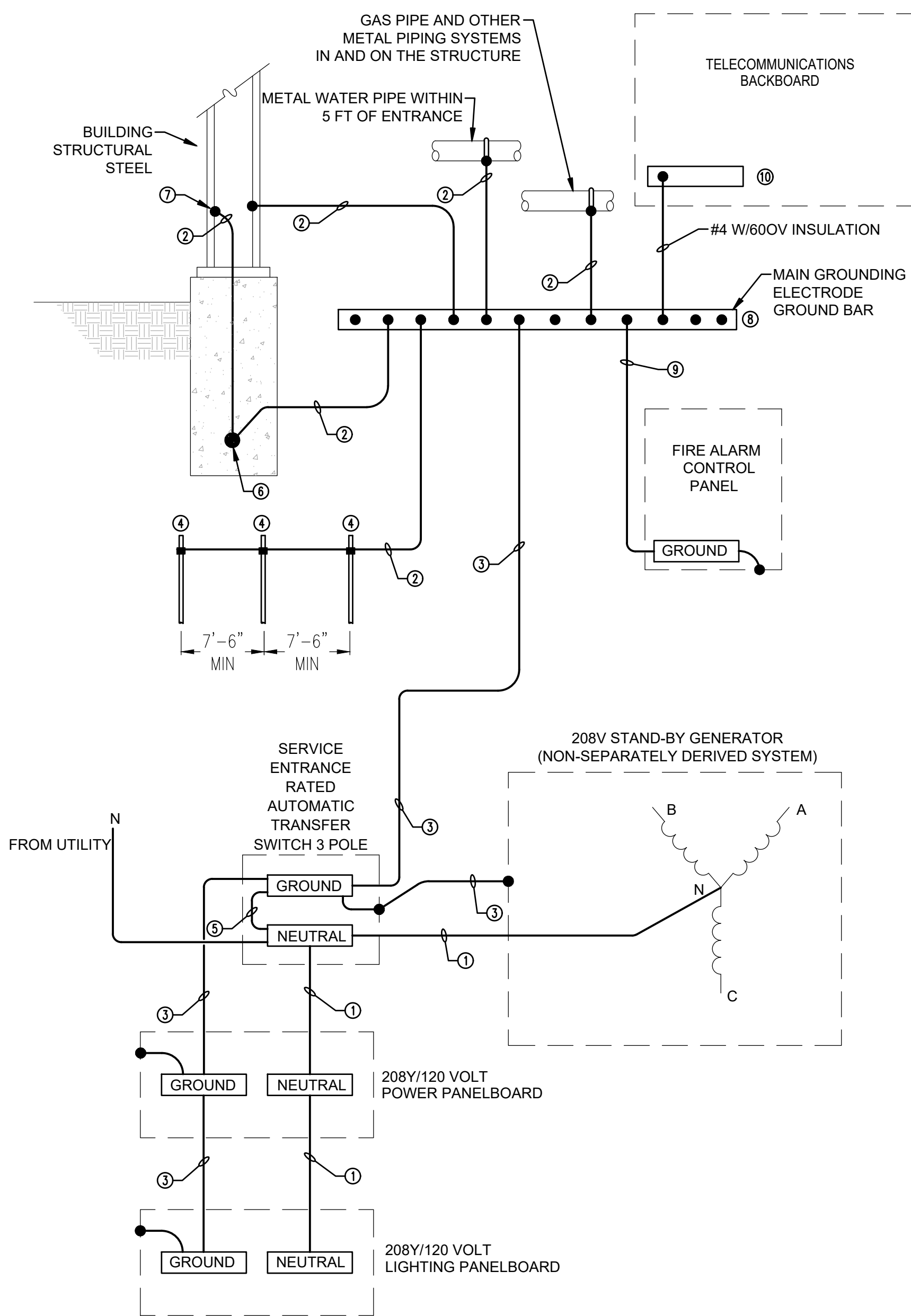


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E602

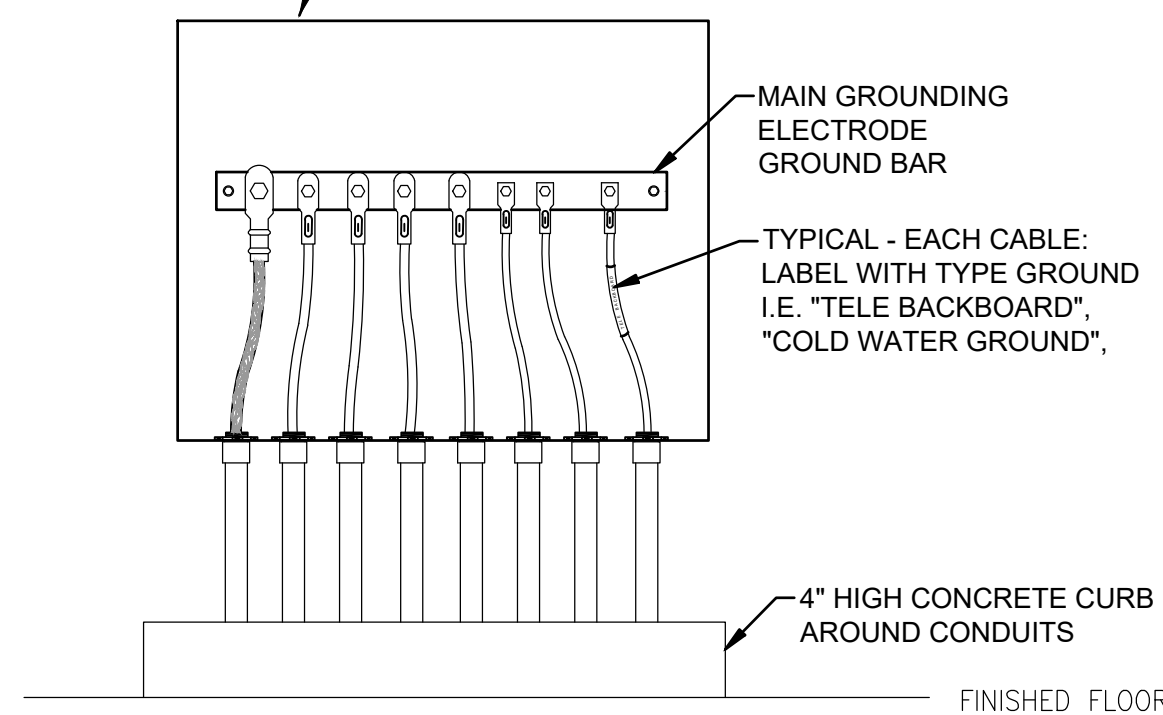
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208Y/120V GROUNDING SYSTEM DIAGRAM

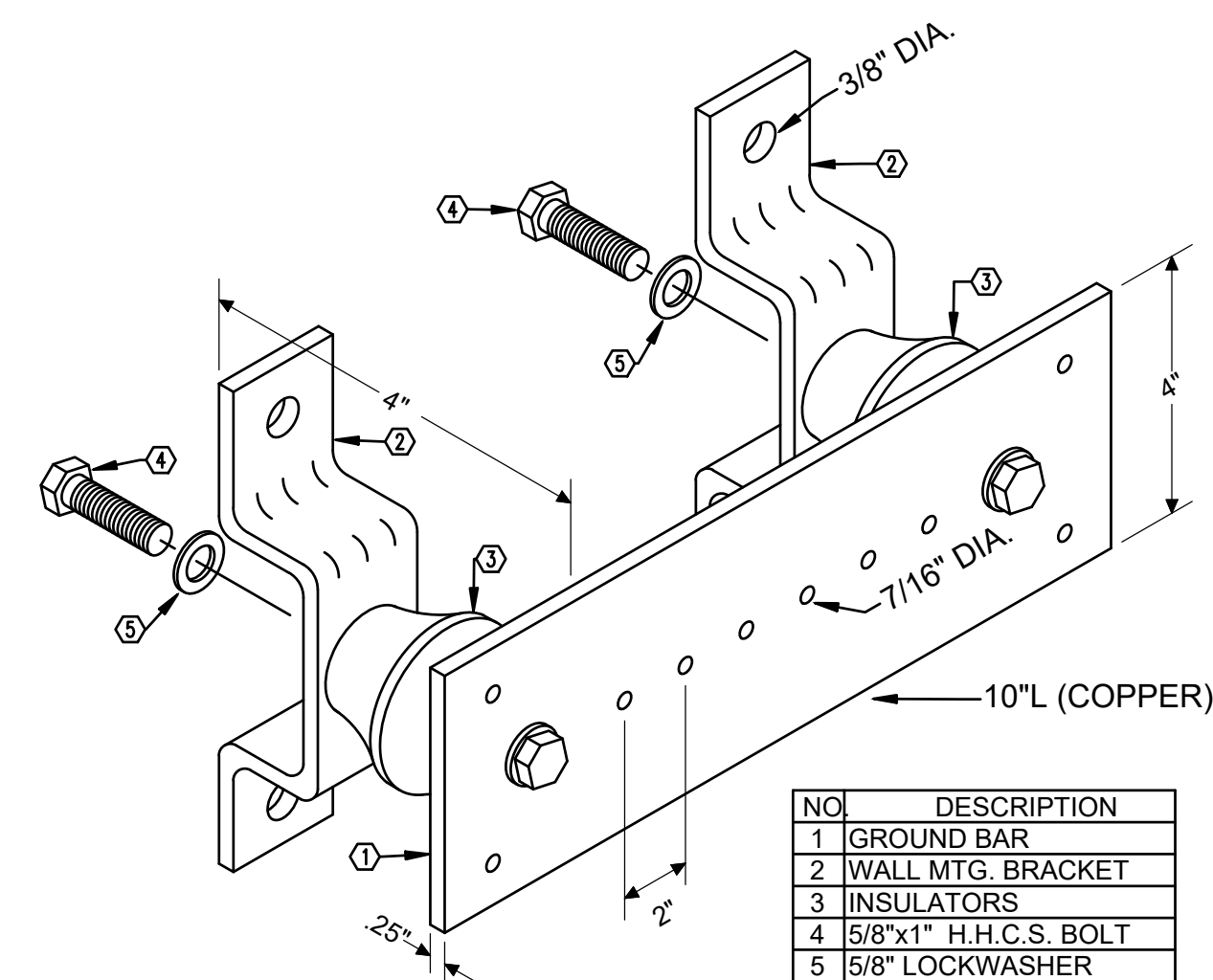
NOT TO SCALE

TYPICAL ENCLOSURE: EQUAL TO CARLON 'CIRCUIT-SAFE' JIC ENCLOSURE. NON-METALLIC; SIDE OPENING; HINGED DOOR WITH LOCK OR CATCH; POLYCARBONATE CONSTRUCTION. PROVIDE A MICARTA PLATE, MECHANICALLY ATTACHED TO OUTSIDE OF DOOR, ENGRAVED IN LETTERS 1" HIGH TO READ "MAIN GROUND BUS BAR". SIZE ENCLOSURE TO ENSURE A MINIMUM OF 2" CLEARANCE AT EACH END OF THE GROUND BAR.



GROUNDING SYSTEM TYPICAL ENCLOSURE

NOT TO SCALE



GROUND BAR NOTES:

- INSTALL ONE BAR AT EACH COMMUNICATIONS ROOM.
- ROUTE 1#4 BARE CU IN 1" CONDUIT FROM GROUND BAR TO BUILDING ELECTRICAL SERVICE ENTRANCE GROUND.
- CONNECT BARS WITH 1#6 BARE CU IN 1" CONDUIT.

INSULATED GROUNDING BAR DETAIL

NOT TO SCALE

KEY NOTES:

- INSTALL GROUND (NEUTRAL) CONDUCTOR SAME SIZE AS THE LARGEST PHASE CONDUCTOR IF THE LINE-TO-NEUTRAL LOAD EXCEEDS 5% OF THE CONNECTED LOAD. IF NEUTRAL LOAD IS SMALLER, INSTALL THE NEC MINIMUM GROUND CONDUCTOR.
- INSTALL GROUNDING ELECTRODE CONDUCTOR, SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE PHASE CONDUCTOR SIZE, BUT NOT SMALLER THAN NO 4.
- INSTALL EQUIPMENT GROUNDING CONDUCTOR SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER OVERCURRENT DEVICE SIZE.
- 10 FOOT MINIMUM X 3/4" DIAMETER COPPER CLAD STEEL SECTIONAL DRIVEN GROUND ROD.
- INSTALL BONDING JUMPER WIRE THAT IS SIZED BASED ON NEC TABLE 250-66 OR 250.28(D)(1) USING THE SERVICE OR SEPARATELY-DERIVED SYSTEM PHASE PHASE CONDUCTOR SIZE.
- INSTALL A CONCRETE-ENCASED MAIN GROUNDING ELECTRODE IN THE BUILDING FOUNDATION PER NEC ARTICLE 250.52 (A) (3).
- BOND EACH PERIMETER STRUCTURAL STEEL COLUMN TO THE CONCRETE-ENCASED MAIN GROUNDING ELECTRODE. USE COMPRESSION CONNECTORS THAT MEET IEEE 837 REQUIREMENTS OR USE EXOTHERMIC WELDS.
- INSTALL A "MAIN GROUND ELECTRODE GROUND BAR" FOR SINGLE POINT GROUNDING. LOCATE AT AN ACCESSIBLE POINT NEAR THE SERVICE ENTRANCE EQUIPMENT. MAKE CONNECTIONS TO THE GROUND ELECTRODE CONDUCTOR USING IRREVERSIBLE CONNECTORS OR EXOTHERMIC WELDS. MAKE OTHER CONNECTIONS TO THE GROUND BAR USING TWO-HOLE COMPRESSION SPADE LUGS THAT MEET IEEE 837 REQUIREMENTS. LABEL EACH CONNECTION TO THE GROUND BAR.
- FIRE ALARM CONTROL PANEL GROUND - #6 COPPER CONDUCTOR.
- INSTALL A COPPER GROUNDING BAR IN EACH TELECOMMUNICATIONS ROOM. CONNECT TO THE "MAIN GROUNDING ELECTRODE GROUND BAR" USING 600V INSULATED #4 COPPER CABLE AND COMPRESSION SPADE LUGS.

GENERAL NOTES

- BOND HOT AND COLD WATER PIPING SYSTEMS.
- CONDUCTOR SIZES SHOWN ARE MINIMUM AND MAY BE LARGER THAN THE MINIMUM SIZES REQUIRED BY NEC.
- INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
- INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250-66 USING THE SERVICE PHASE CONDUCTOR SIZE.
- INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC FEEDER CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250-122 USING THE FEEDER CIRCUIT OVERCURRENT DEVICE SIZE OR THE SEPARATELY DERIVED SYSTEM OVERCURRENT DEVICE SIZE.



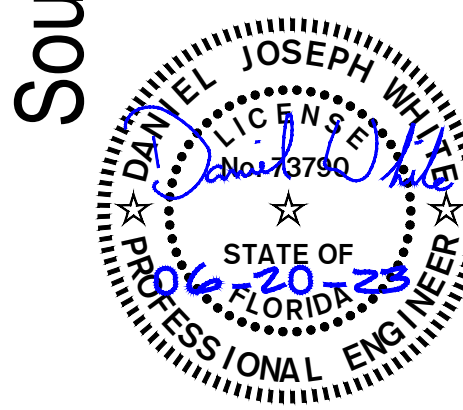
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PERMIT SET

**South Walton County Mosquito Control District
New Headquarters Building**

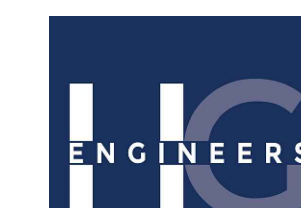
774 North County Highway 393
Santa Rosa Beach, Florida 32459



No.	Description	Date

GROUNDING DETAILS

Project number: 18106
Date: 06-20-2023
PIC: CP
PM: RE

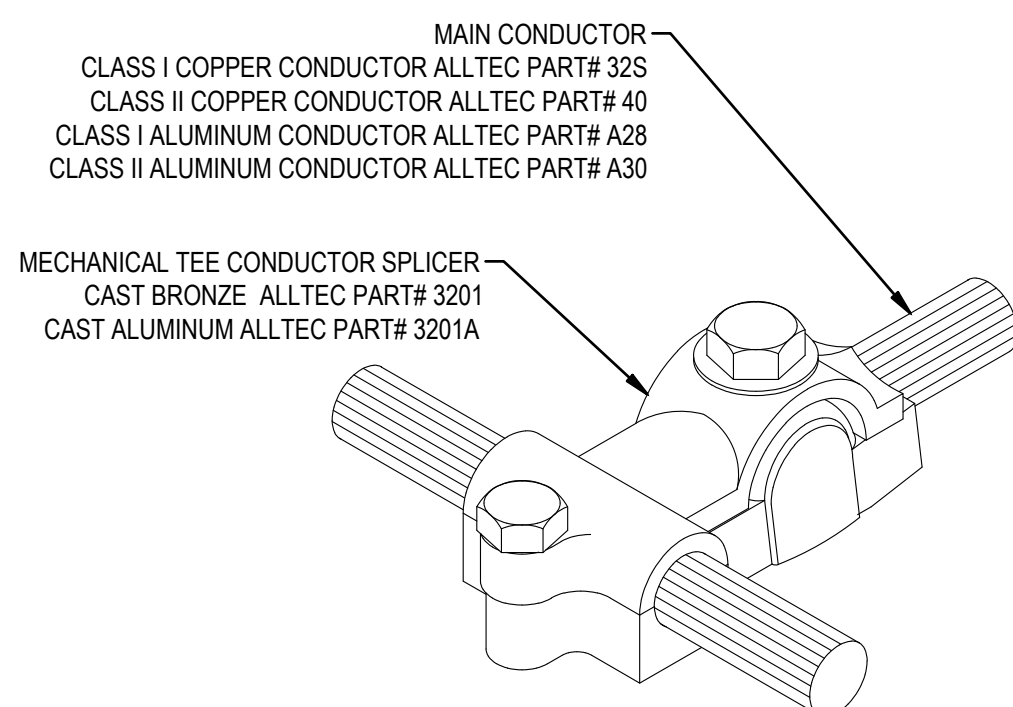
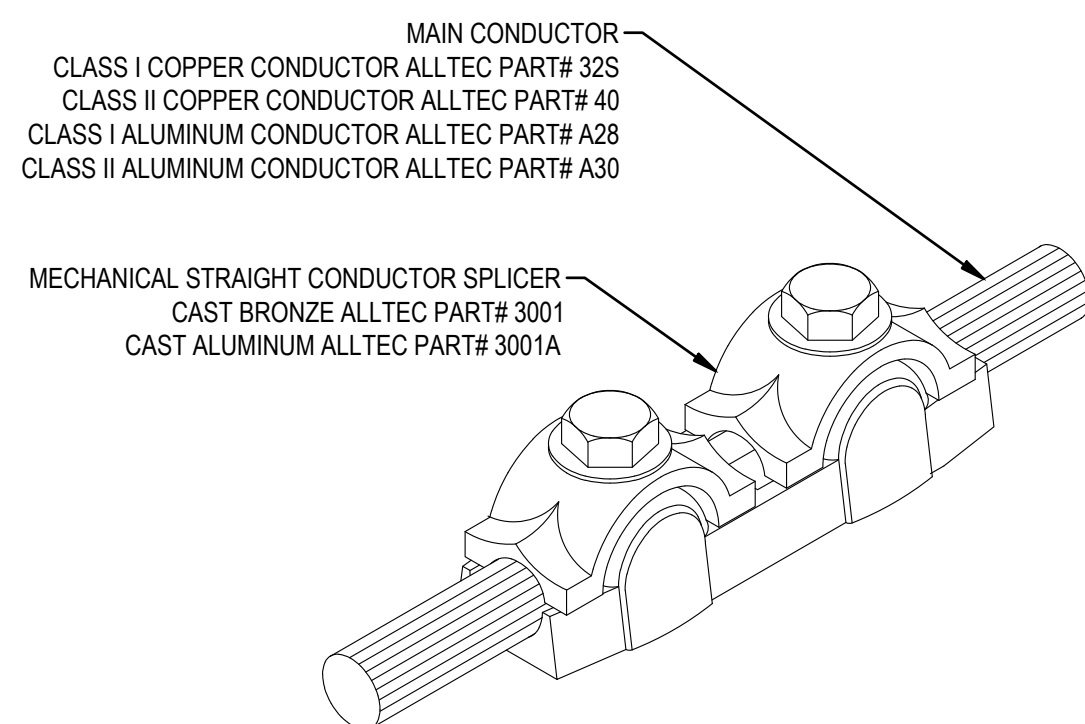
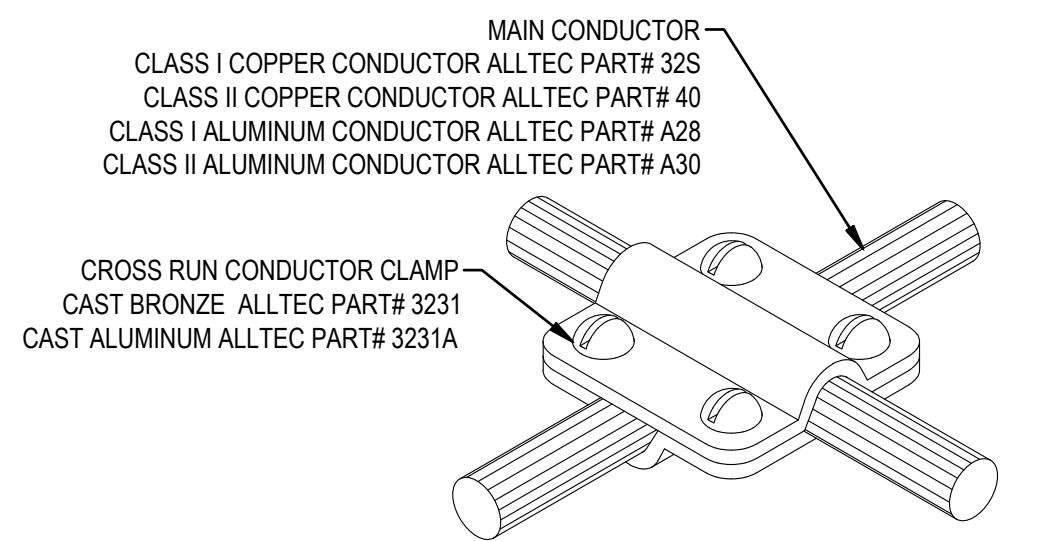
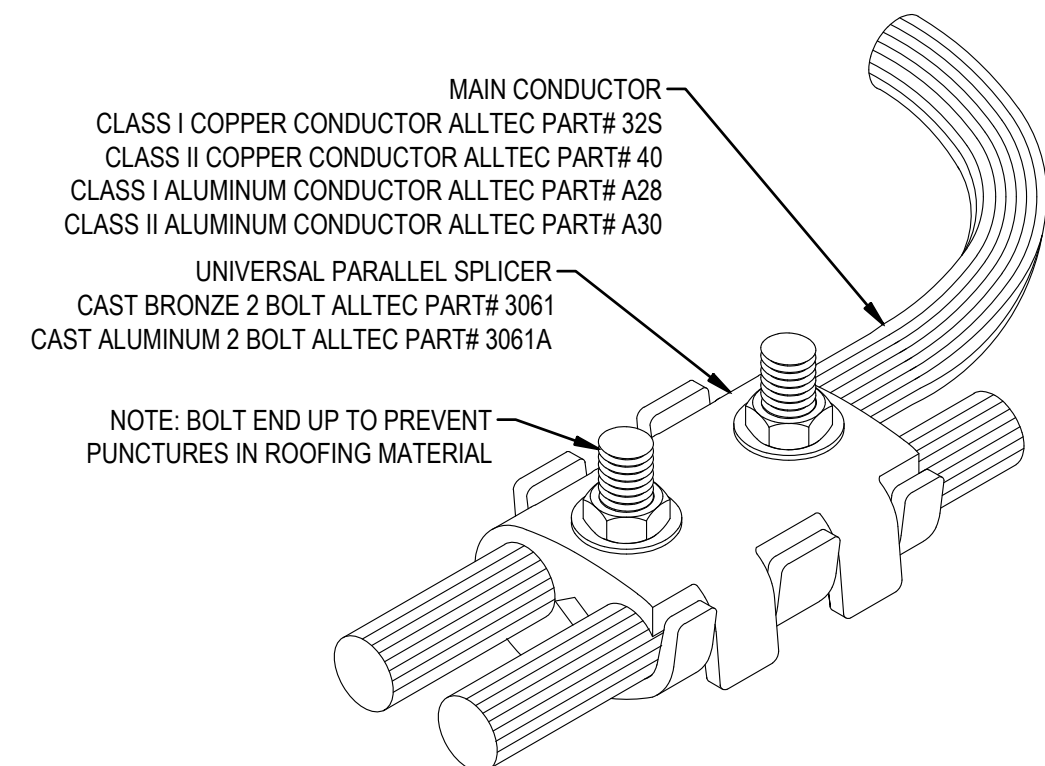


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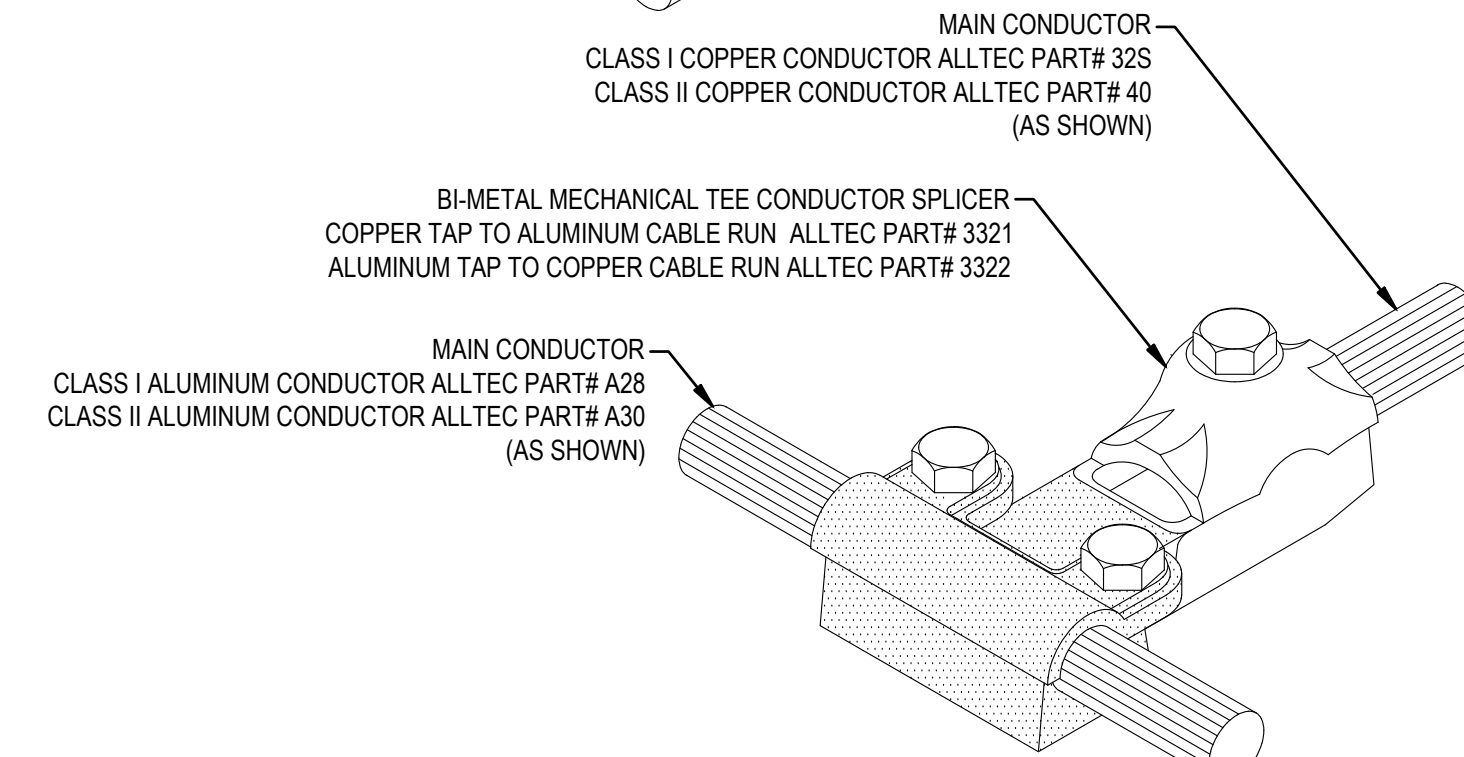
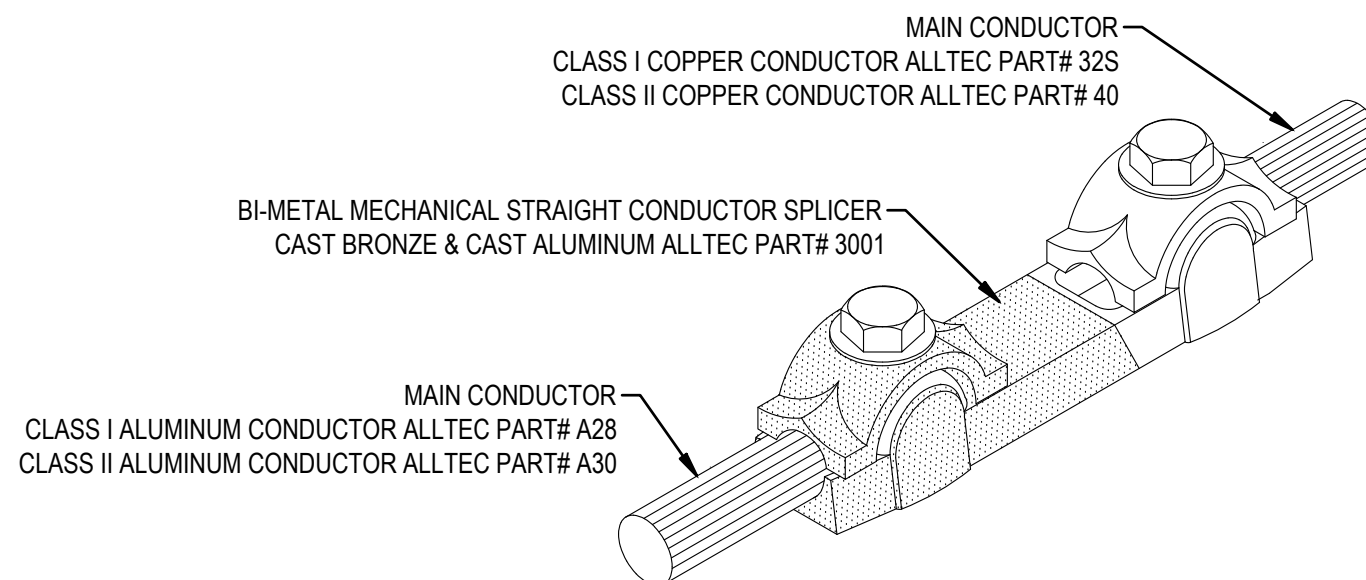
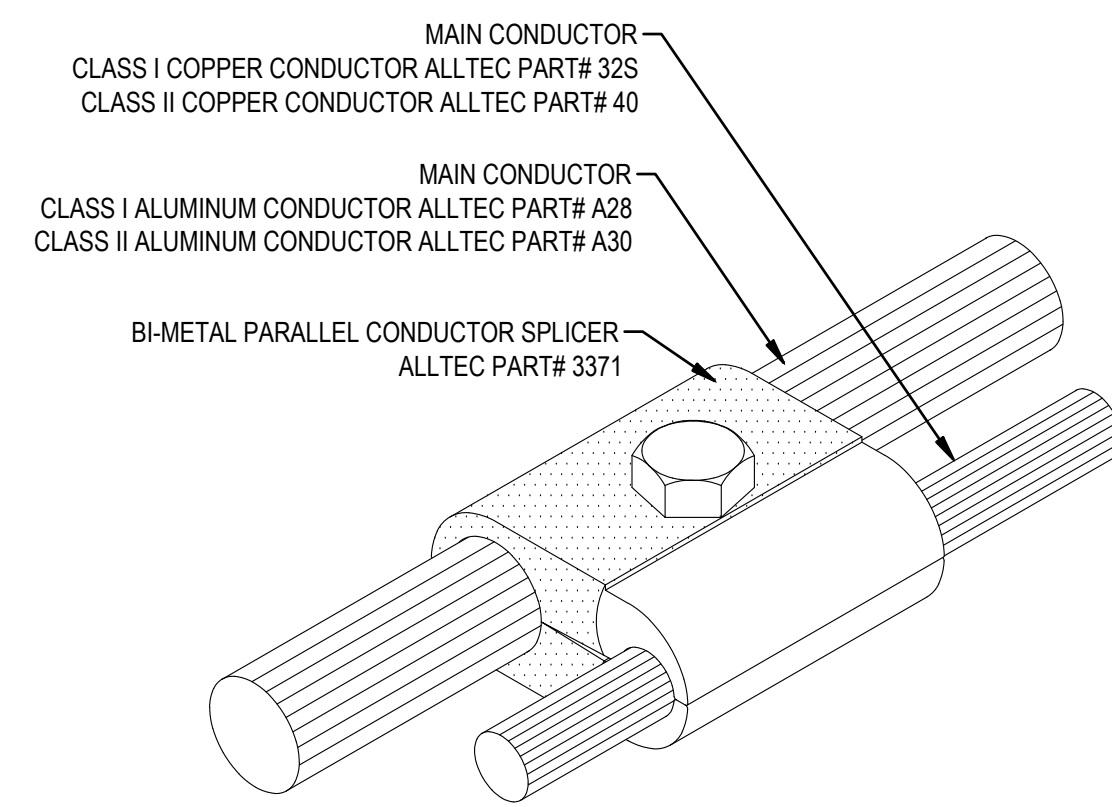
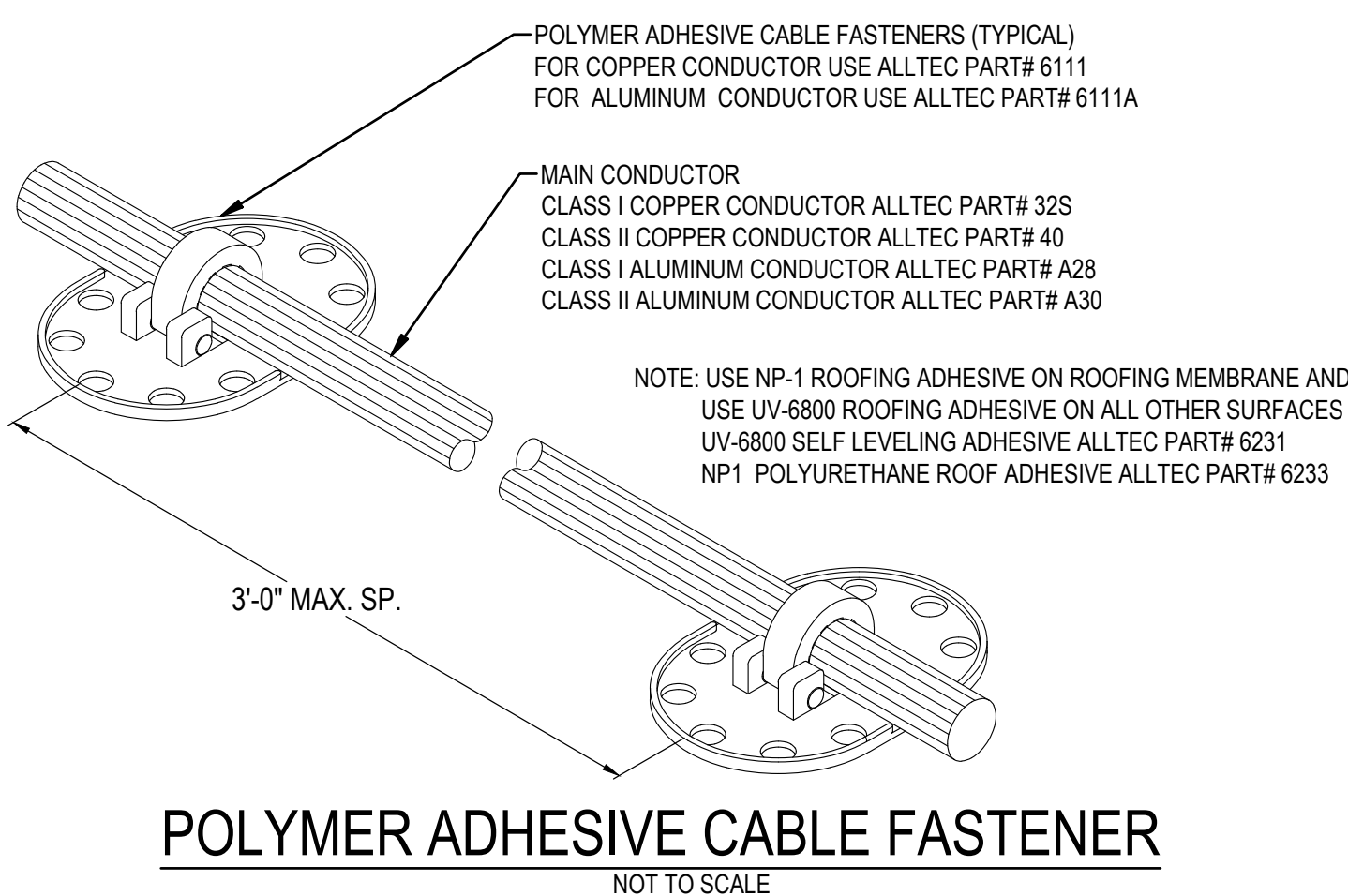
2043 Job No.

E603

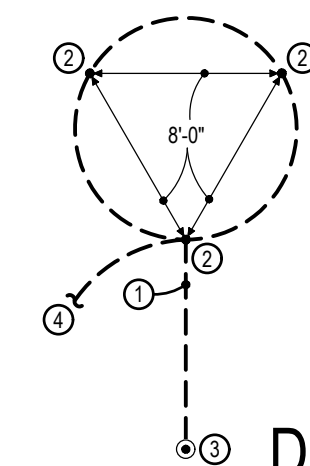
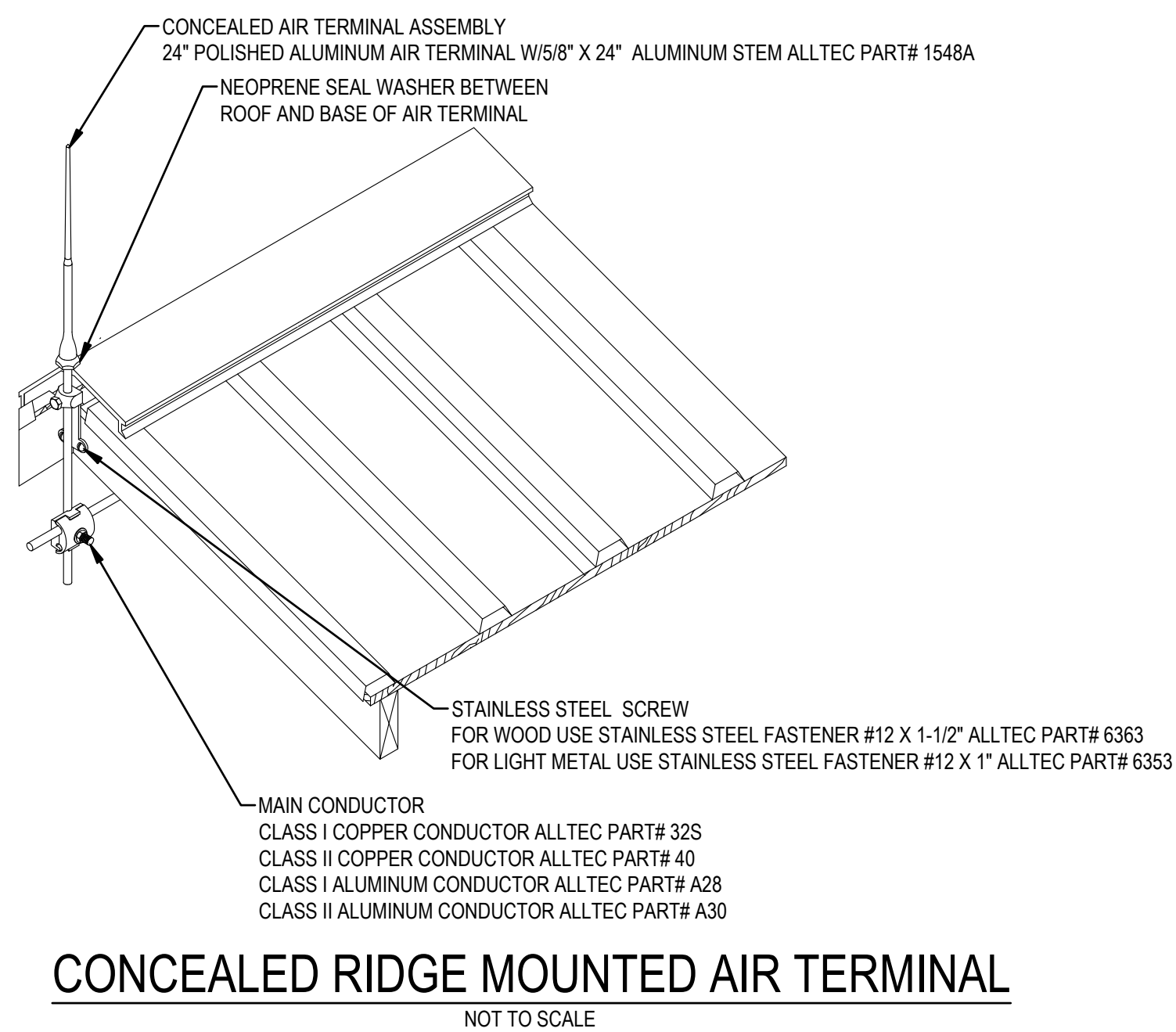
UNLESS OTHERWISE SPECIFIED, ALL MATERIALS, MANUFACTURING METHODS AND INSTALLATION METHODS SHALL BE AS SHOWN AND SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARM CODE (NFAC), AND ALL OTHER APPLICABLE CODES AND REGULATIONS. ANY DEVIATION FROM THESE REQUIREMENTS SHALL BE INDICATED BY A REVISION TO THE DRAWING. THE CONSULTANT SHALL BE HELD RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED AND SHALL BE HELD RESPONSIBLE FOR THE DESIGN AND DETAILING OF THE SYSTEMS AND EQUIPMENT SHOWN HEREON. THE CONSULTANT SHALL BE HELD RESPONSIBLE FOR THE DESIGN AND DETAILING OF THE SYSTEMS AND EQUIPMENT SHOWN HEREON. THE CONSULTANT SHALL BE HELD RESPONSIBLE FOR THE DESIGN AND DETAILING OF THE SYSTEMS AND EQUIPMENT SHOWN HEREON. THE CONSULTANT SHALL BE HELD RESPONSIBLE FOR THE DESIGN AND DETAILING OF THE SYSTEMS AND EQUIPMENT SHOWN HEREON.



CABLE CLAMPS & SPLICERS
NOT TO SCALE



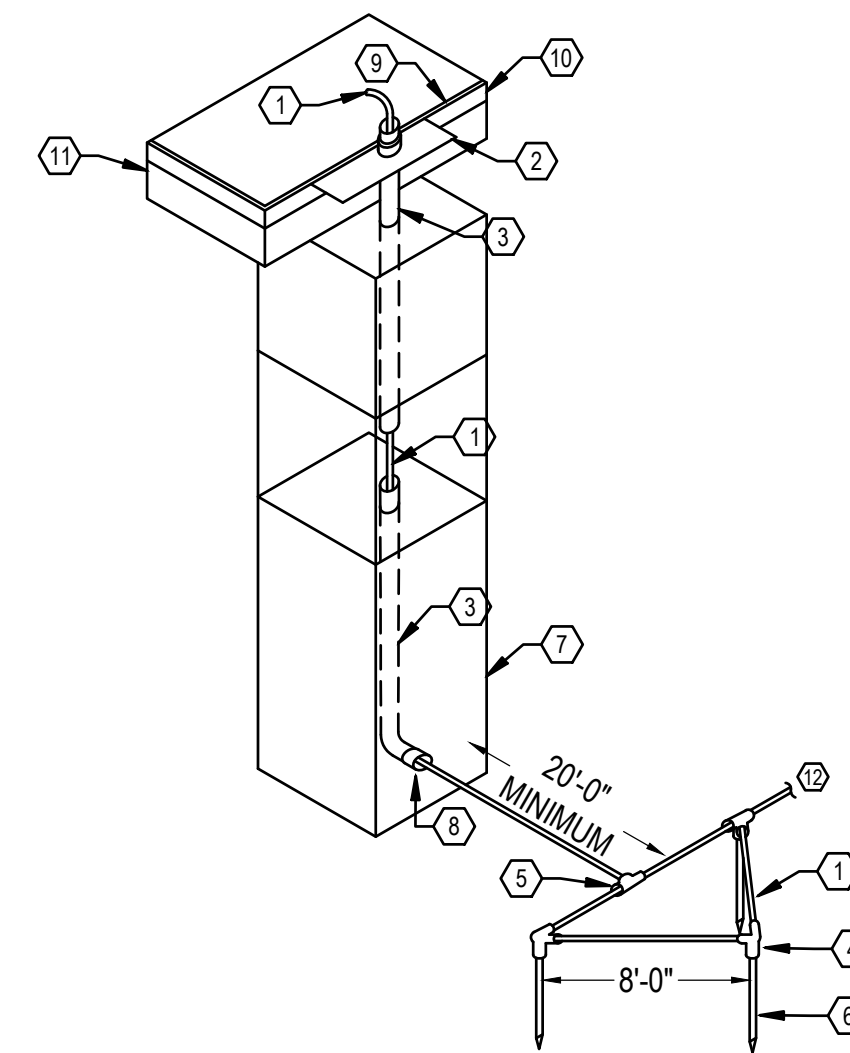
BI-METAL CLAMPS & SPLICERS
NOT TO SCALE



NOTES:

- ① LIGHTNING PROTECTION SYSTEM DOWNLEAD CONDUCTOR; SIZE TO BE DETERMINED BY SYSTEM SUPPLIER AND INSTALLER.
- ② 3/4"DIAx10' SECTIONAL DRIVEN GROUND ROD.
- ③ TYPICAL LIGHTNING PROTECTION AIR TERMINAL, REFER TO SPECS AND DETAIL THIS SHEET.
- ④ GROUND CONDUCTOR TO MAIN BUILDING GROUND.

DOWNLEAD AND GROUND ROD CONNECTION DETAIL
NOT TO SCALE



NOTES:

- ① CONDUCTOR TO LIGHTNING PROTECTION SYSTEM.
- ② ROOF FLASHING-FURNISHED AND WEATHERPROOFED BY ROOFING CONTRACTOR
- ③ 1 1/4"PVC SCH.40 CONDUIT IN COLUMN OR WALL-FURNISHED, INSTALLED, WEATHERPROOFED AND MAINTAINED FREE FROM OBSTRUCTIONS BY ELECTRICAL CONTRACTOR.
- ④ GROUND ROD CONNECTION-CADWELDED OR MECHANICAL (TYPICAL FOR 3)
- ⑤ CONDUCTOR CONNECTION-CADWELDED OR MECHANICAL
- ⑥ COPPERWELDED GROUND ROD-3/4"x10'-0" MIN. (TYPICAL FOR 3).
- ⑦ BUILDING STRUCTURE
- ⑧ PVC EXITS 18" BELOW GRADE
- ⑨ ROOF MATERIAL-FELT, TAR, STONE, ETC.
- ⑩ ROOF INSULATION MATERIAL
- ⑪ CONCRETE OR METAL ROOF DECK
- ⑫ GROUND CONDUCTOR TO MAIN BUILDING GROUND

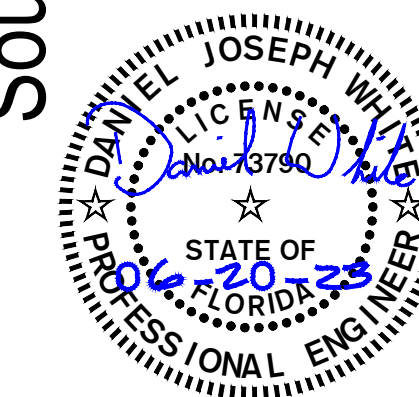


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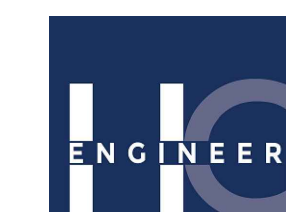


No.	Description	Date

LIGHTNING PROTECTION DETAILS

Project number: 18106
Date: 06-20-2023
PIC: CP
PM: RE

E604



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2043
Job No.

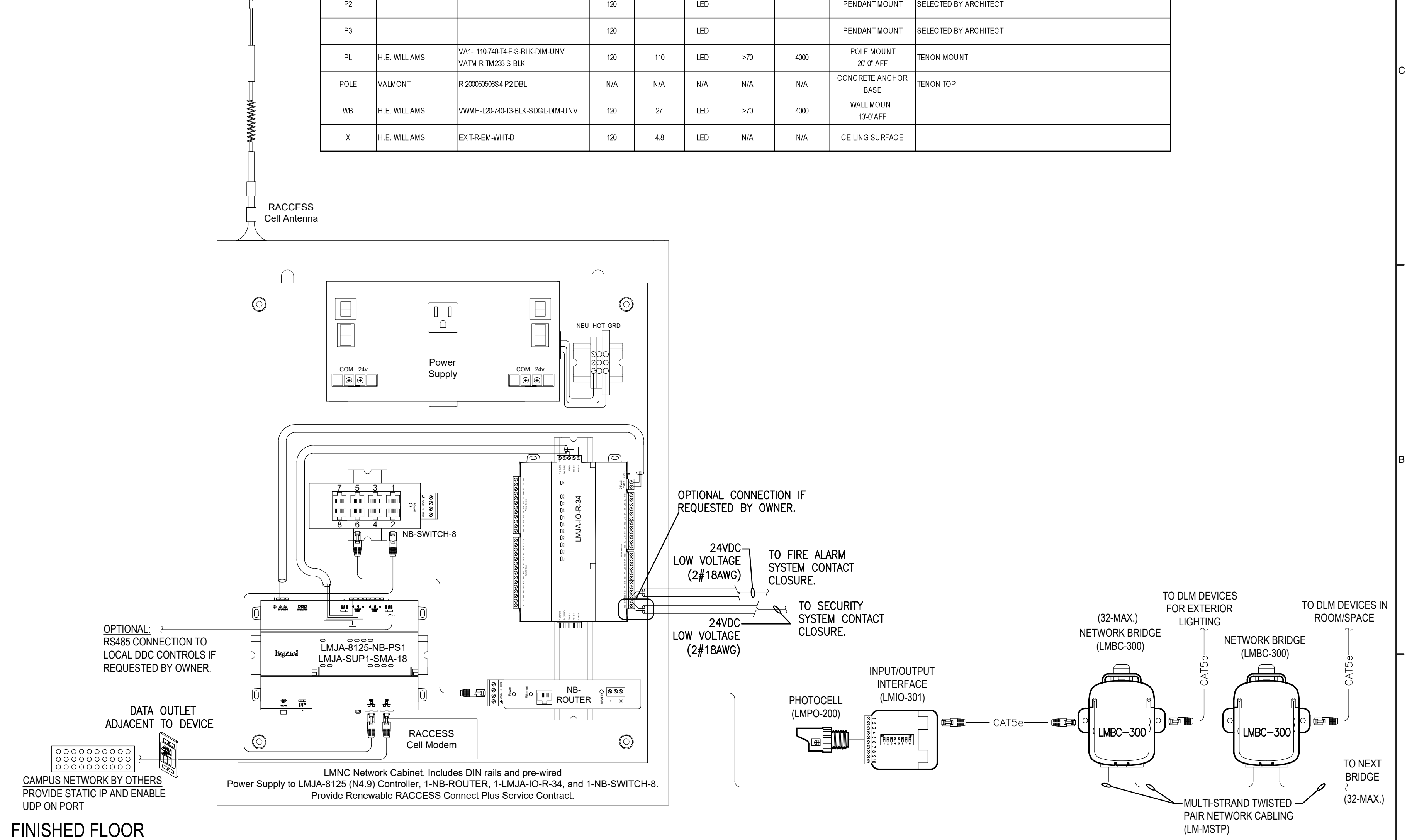
Lighting Space and Zones			Lighting Control Matrix														Low Voltage Switch Matrix (Button Labels to be designated by owner during installation)												
Space Type	Foot Candles	Designator (LTC Controls)	Room Number	CONTROL SCENARIOS														CONNECT TO LIGHTING CONTROL PANEL											
				Manual On	Manual Off	Dimming	Multi-Level Control	Timeclock On	Timeclock Off	Occupancy Sensor On	Vacancy Sensor Off	Daylight Harvesting	Photo sensor On	Fire Alarm System Override to On	Security System Override to On	SL2 (2-Button)	SL4 (4-Button)	SL5 (5-Button)	SL6 (6-Button)	SL8 (8-Button)	S (2-Button)	Line Voltage OCC Switch	Line Voltage OOC Switch						
Small Office	40	E	Typical	X	X																								
Corridor	15	A	Typical	X	X						X	X					X												
Single Gang Restrooms	15	E	Typical	X	X								X																
Multigang Restrooms	15	A	Typical	X	X								X																
Exterior/Parking Lot	1	D	Typical								X																		
Storage/Laundry/Janitor	15	E	Typical	X	X								X																
Entry Lobby	30	A	001	X	X						X	X																	
Boardroom	40	C	002	X	X	X	X						X																
Work/Supply Room	40	A	008	X	X								X																
Conference Room	40	B	009	X	X	X	X						X				X												
Breakroom	30	A	028	X	X								X	X															
Directors Office	40	B	014	X	X	X							X																
Mosquito Techs	40	A	018	X	X								X																
Arthropod/Ent/Insectory	50	B	021,022	X	X	X							X																
Mezzanine/MEP	20	E	100	X	X																				X				

LIGHTING FIXTURE SCHEDULE														
Project: 2043 - South Walton Mosquito Admin Bldg														
Note: Per electrical specifications, alternate fixtures shall be submitted to the engineer for prior approval a minimum of (10) ten business days prior to bid date. Any alternate fixtures not submitted for prior approval will not be reviewed.														
Luminaire Designation	Manufacturer	Catalog Number	Connected Voltage	Luminaire Load (w)	Lamping Source	Color Rendering Index (CRI)	Kelvin Temperature	Mounting	Comments					
DL	H.E. WILLIAMS	4DR-TL15-840-DIM-UNV-LW-OF-CS-N-F1	120	13.9	LED	>80	4000	CEILING RECESSED						
DLE	H.E. WILLIAMS	4DR-TL15-840-EM/10W-DIM-UNV-LW-OF-CS-N-F1	120	13.9	LED	>80	4000	CEILING RECESSED						
DL2	H.E. WILLIAMS	4DR-TL10-840-DIM-UNV-LW-OF-CS-IF-N-F1	120	16	LED	>80	4000	SOFFIT RECESSED						
DL3	H.E. WILLIAMS	4DR-TL30-840-DIM-UNV-LW-OF-CS-N-F1	120	13.9	LED	>80	4000	CEILING RECESSED						
DL3E	H.E. WILLIAMS	4DR-TL30-840-EM/10W-DIM-UNV-LW-OF-CS-N-F1	120	13.9	LED	>80	4000	CEILING RECESSED						
G1	H.E. WILLIAMS	50G-S22-L43-840-F-AF12125-EM/10W-L33-DRV-UNV	120	33.7	LED	>80	4000	CEILING RECESSED						
G1E	H.E. WILLIAMS	50G-S22-L43-840-F-AF12125-EM/10W-L33-DRV-UNV	120	33.7	LED	>80	4000	CEILING RECESSED						
G2	H.E. WILLIAMS	50G-S22-L26-840-F-AF12125-L21-DRV-UNV	120	21.3	LED	>80	4000	CEILING RECESSED						
G2E	H.E. WILLIAMS	50G-S22-L26-840-F-AF12125-EM/10W-L21-DRV-UNV	120	21.3	LED	>80	4000	CEILING RECESSED						
L1	H.E. WILLIAMS	75R-4L30-840-DRV-UNV	120	19.7	LED	>80	4000	CEILING SURFACE						
L1E	H.E. WILLIAMS	75R-4L30-840-EM/10MLP-DRV-UNV	120	19.7	LED	>80	4000	CEILING SURFACE						
LAB	H.E. WILLIAMS	50G-S22-L43-850-F-AF12125-DRV-UNV	120	33.7	LED	>80	5000	CEILING SURFACE						
LABE	H.E. WILLIAMS	50G-S22-L43-850-F-AF12125-EM/10W-DRV-UNV	120	33.7	LED	>80	5000	CEILING SURFACE						
P1			120		LED			PENDANT MOUNT	SELECTED BY ARCHITECT					
P2			120		LED			PENDANT MOUNT	SELECTED BY ARCHITECT					
P3			120		LED			PENDANT MOUNT	SELECTED BY ARCHITECT					
PL	H.E. WILLIAMS	VA1-L10740-T4-F-S-BLK-DIM-UNV-VATM-R-TM28-S-BLK	120	110	LED	>70	4000	POLE MOUNT 20'-0" AFF	TENON MOUNT					
POLE	VALMONT	R2005506S4-P2-DBL	N/A	N/A	N/A	N/A	N/A	CONCRETE ANCHOR BASE	TENON TOP					
WB	H.E. WILLIAMS	VMMH-L20-740-T3-BLK-SDGL-DIM-UNV	120	27	LED	>70	4000	WALL MOUNT 10'-0" AFF						
X	H.E. WILLIAMS	EXIT-REM-WHT-10	120	4.8	LED	N/A	N/A	CEILING SURFACE						

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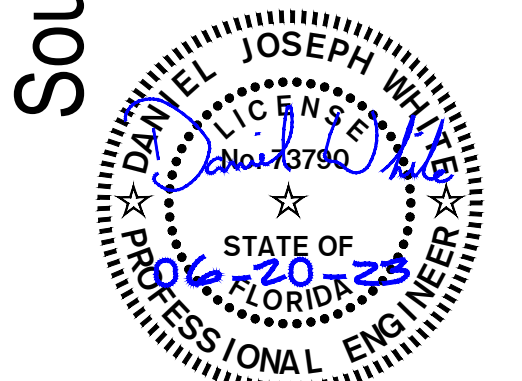
LIGHTING CONTROL GENERAL NOTES

- THE DIAGRAMS ARE NOT INTENDED TO SHOW EXACT QUANTITIES OF DEVICES. REFER TO PLAN FOR ESTIMATED DEVICE QUANTITIES AND LOCATIONS.
- THE LIGHTING CONTROL SYSTEM BASIS OF DESIGN IS WATTSTOPPER DLM PRODUCTS.
- THE LOCAL DEVICE INTERCONNECTIONS FOR ALL LIGHTING CONTROL DEVICES SHALL BE OF THE TOPOLOGY FREE TYPE.
- COLORS FOR ALL DEVICES AND DEVICE COVERS SHALL BE SELECTED BY THE ARCHITECT.
- ALL DATA LINE SWITCHES SHALL INCLUDE CUSTOM ENGRAVED LABEL INDICATING FUNCTION OF SWITCH. COORDINATE EXACT LABEL DESCRIPTIONS WITH OWNER PRIOR TO INSTALLATION.
- PROVIDE ADDITIONAL POWER AND CONTROL MODULES AS RECOMMENDED BY THE SYSTEM SUPPLIER.
- THE DIAGRAMS REPRESENT A TYPICAL SYSTEM AND ARE NOT INTENDED FOR INSTALLATION. SYSTEM SUPPLIER SHALL PROVIDE INSTALLATION DRAWINGS AND WIRING DIAGRAMS.
- E.C. SHALL COORDINATE FIELD PROGRAMMING OF LIGHTING CONTROL SYSTEM WITH SYSTEM PROGRAMMER, SPECIFYING ENGINEER, AND OWNER TO ENSURE PROPER OPERATION AND TIME SCHEDULES.
- ALL EMERGENCY AND EXIT LIGHTING CIRCUITS SHALL BE CONNECTED TO CONTINUOUS POWER SOURCE AHEAD OF RELAY PANEL OR INDIVIDUAL RELAY COMPONENTS.
- INSTALL ALL CEILING SENSORS MINIMUM OF 6FT CLEAR OF DUCT REGISTERS.
- THE LIGHTING CONTROL AND EMERGENCY LIGHTING SYSTEMS SHALL BE CAPABLE OF BEING ACCESSED VIA THE LOCAL AREA NETWORK AND REMOTELY VIA AUTHORIZED PERSONNEL ONLY.
- PROGRAMMER / COMMISSIONING AGENT SHALL BE CERTIFIED BY THE EQUIPMENT MANUFACTURER ON THE SYSTEM INSTALLED.
- THE MANUFACTURER CERTIFIED TECHNICIAN WILL MEET ONSITE WITH THE ELECTRICAL CONTRACTORS TO COORDINATE INSTALLATION DETAILS, REVIEW BEST PRACTICES, AND DISCUSS PROJECT SPECIFIC CHALLENGES; PRIOR TO THE INSTALLATION BEING STARTED, ENABLING THE CONTRACTORS TO WORK WITH THE TECHNICIAN TO PREPARE AND MAKE CHANGES UP FRONT.
- THE MANUFACTURER'S LIGHTING SYSTEMS TEAM SHALL WORK ONSITE AFTER FIXTURE AND CONTROLS INSTALLATION IS COMPLETED. THE MANUFACTURER'S AGENT IS TO VERIFY THE PROJECT IS REVIEWED AND CHECKED FOR PROPER WIRING, INSTALLATION AND FUNCTIONALITY OF THE SYSTEM AS A WHOLE. ANY PROBLEMS SHALL BE ADDRESSED AND RESOLVED WITH THE ONSITE CONTRACTORS.
- MANUFACTURER'S TECHNICIANS SHALL MAP OUT THE FIXTURE LOCATIONS AND ADDRESSES WITHIN THE LIGHTING CONTROL SOFTWARE. ASTRONOMIC TIMECLOCK EVENTS, SCENES, AND SCHEDULES ARE PROGRAMMED ACCORDING TO A PRE-DEFINED SCRIPT. THESE EVENTS, SCENES, AND SCHEDULES ARE TESTED AND FINALIZED FOR FINAL APPROVAL BY THE PROJECT'S OWNERSHIP.
- MANUFACTURER'S TECHNICIANS SHALL PROVIDE TRAINING FOR SYSTEM USERS AND THE SYSTEM MAINTENANCE TEAM. THE DETAILS OF THE TECHNOLOGY SHALL BE COVERED FROM A MAINTENANCE AND TROUBLESHOOTING POINT OF VIEW. THIS COVERS THE LIGHTING CONTROL SYSTEM AND ITS CORE FUNCTIONALITY, WITH A FOCUS ON HOW TO EDIT EXISTING SCENES AND ASTRONOMIC LIGHTING EVENTS.
- THE MANUFACTURER'S REPRESENTATIVE SHALL PROVIDE IN-DEPTH TRAINING TO THE END USER ON MANAGING THE SPECIFIC CONTROL SYSTEM, GIVING THEM THE TOOLS AND KNOWLEDGE TO OPERATE THEIR SYSTEM.



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 774 North County Highway 393
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No.	Description	Date

LIGHTING CONTROLS AND FIXTURE SCHEDULE

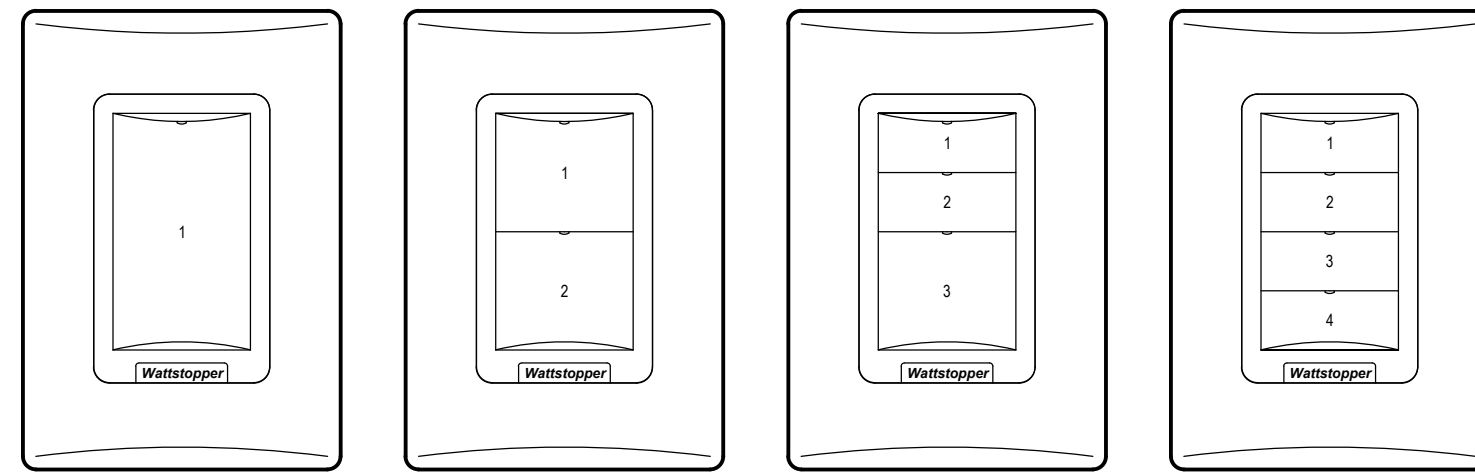
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E701

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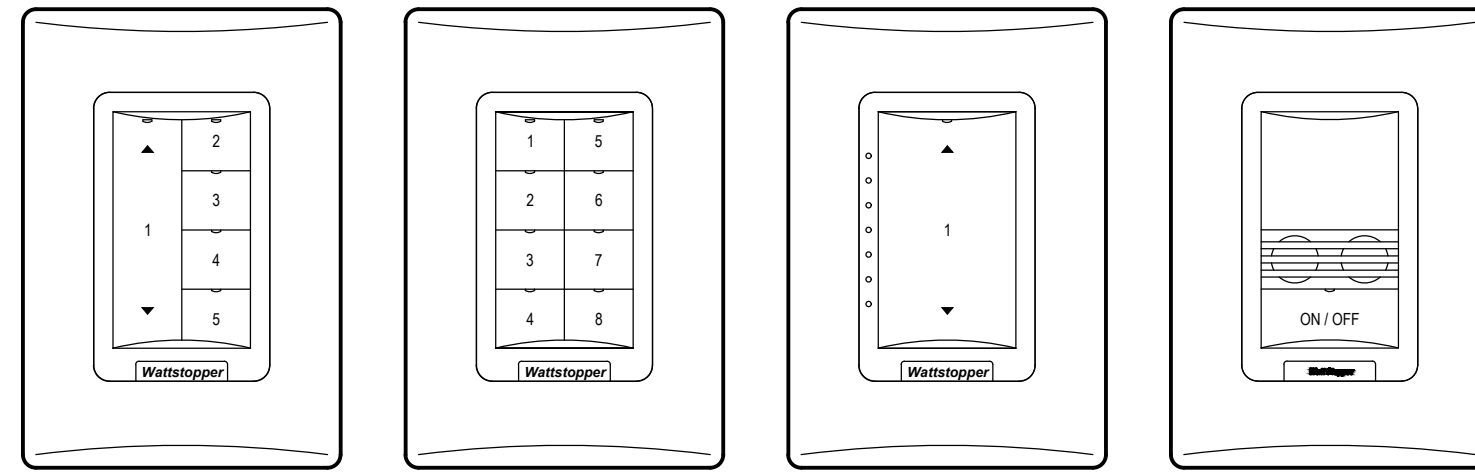
2043 Job No.

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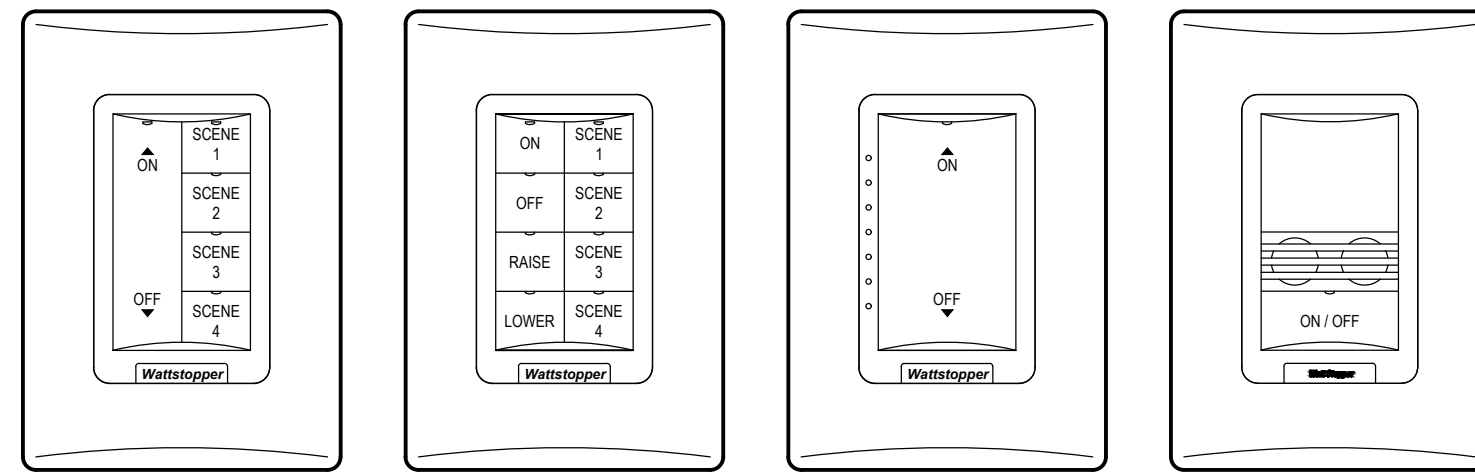
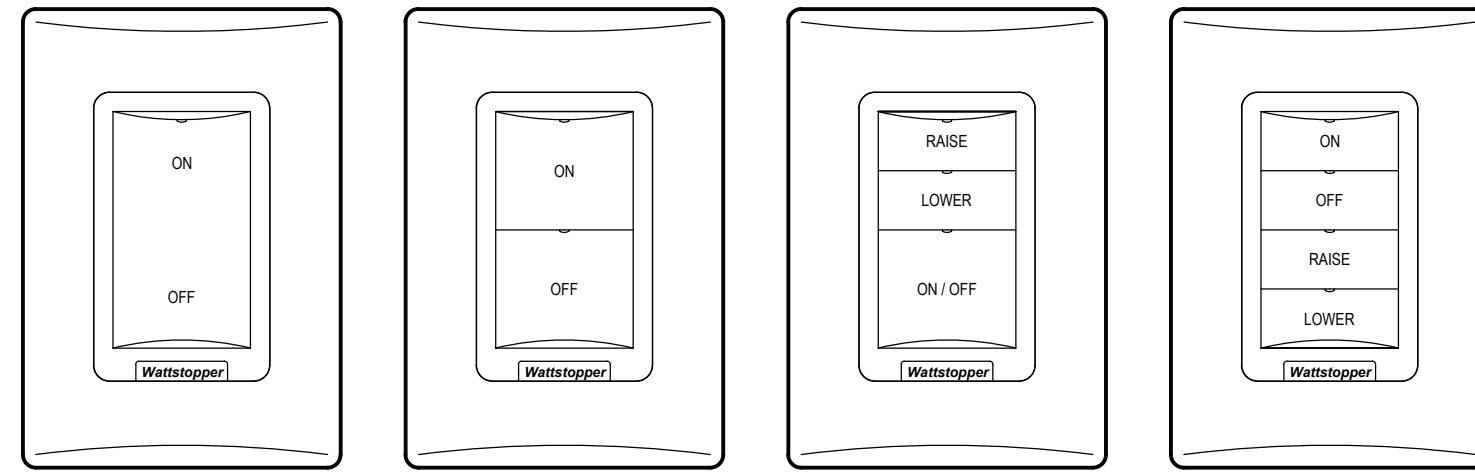
DETAIL NOTES

1. SWITCH BUTTON LABELING INDICATES A DEFAULT SCHEME. OWNER TO PROVIDE ACTUAL LABELING DURING THE CONSTRUCTION PHASE OF THIS PROJECT. IF THE OWNER DOES NOT MAKE ANY DECISION, THEN THE DEFAULT LABELING MAY BE UTILIZED. VERIFY WITH OWNER PRIOR TO PROCEEDING WITH ORDERING OF ANY AND ALL BUTTON ENGRAVING.



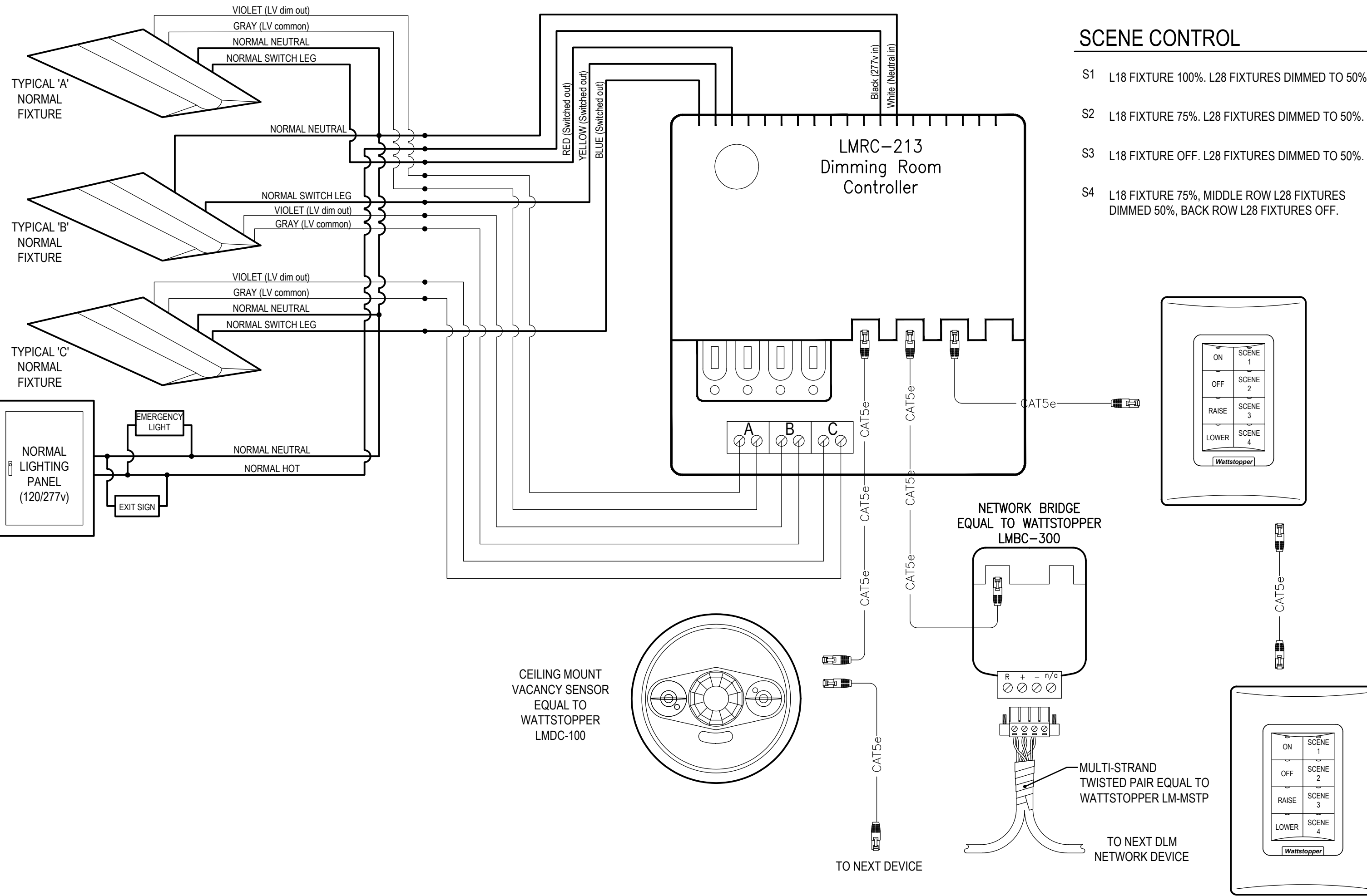
TYPICAL SWITCH BUTTON ARRANGEMENTS

NOT TO SCALE



TYPICAL SWITCH BUTTON LABELING DEFAULT OPTIONS

NOT TO SCALE

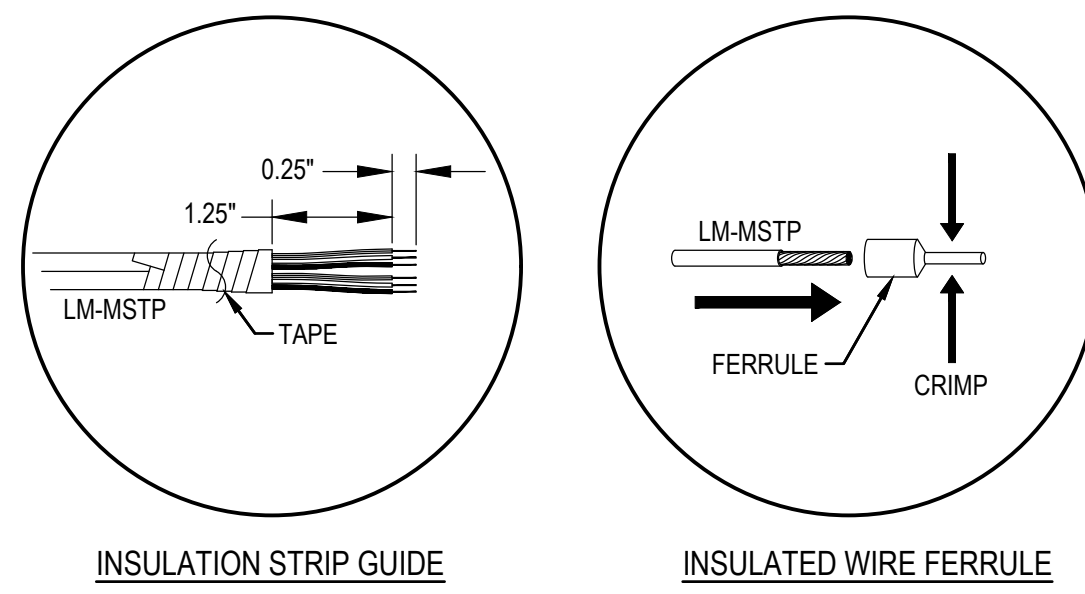


SCENE CONTROL

- S1 L18 FIXTURE 100%. L28 FIXTURES DIMMED TO 50%.
- S2 L18 FIXTURE 75%. L28 FIXTURES DIMMED TO 50%.
- S3 L18 FIXTURE OFF. L28 FIXTURES DIMMED TO 50%.
- S4 L18 FIXTURE 75%, MIDDLE ROW L28 FIXTURES DIMMED 50%, BACK ROW L28 FIXTURES OFF.

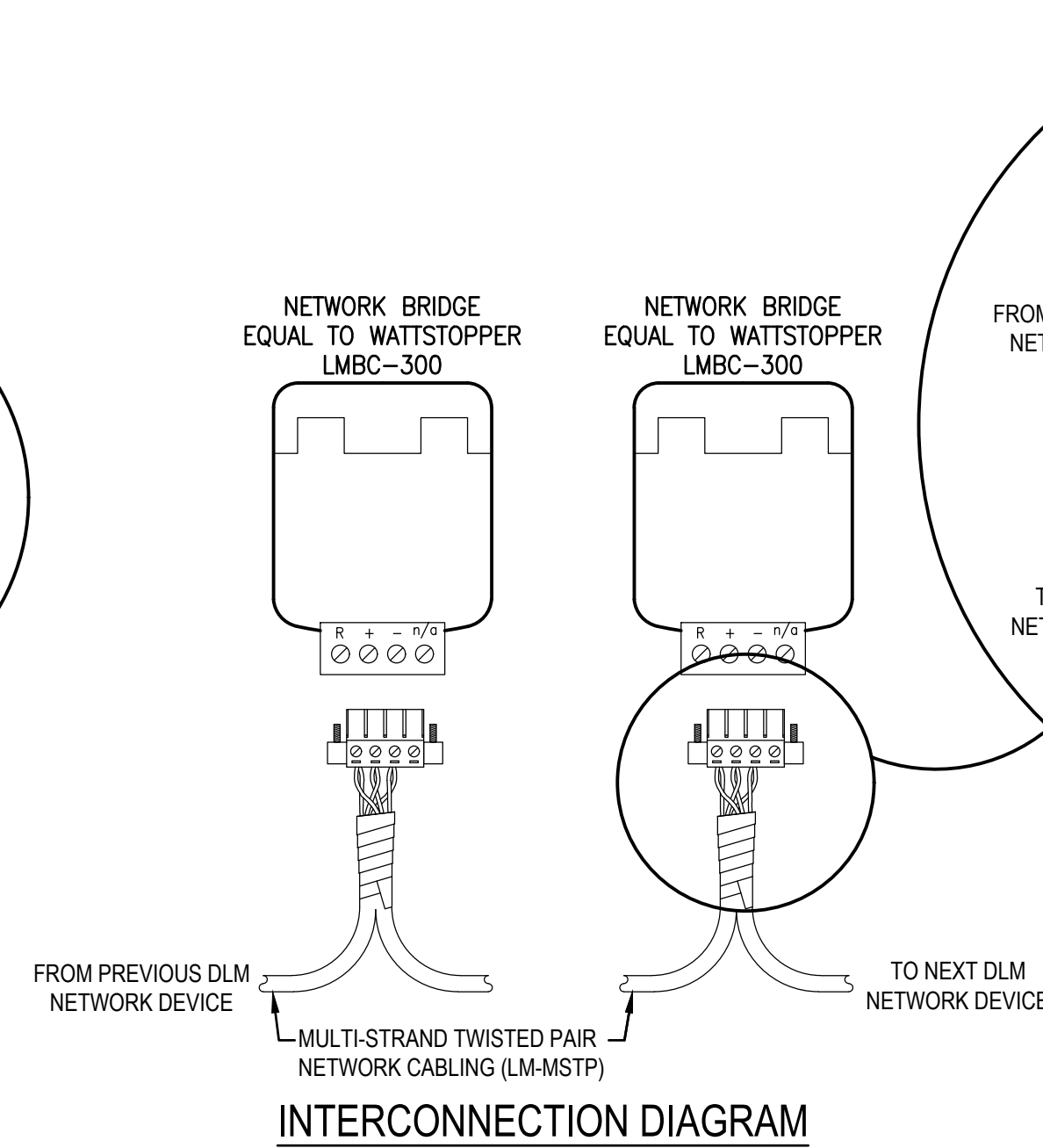
DESIGNATION 'C' TYPICAL ROOM WITH MULTI-LEVEL CONTROL, OCCUPANCY SENSING AND SWITCH INPUT

NOT TO SCALE

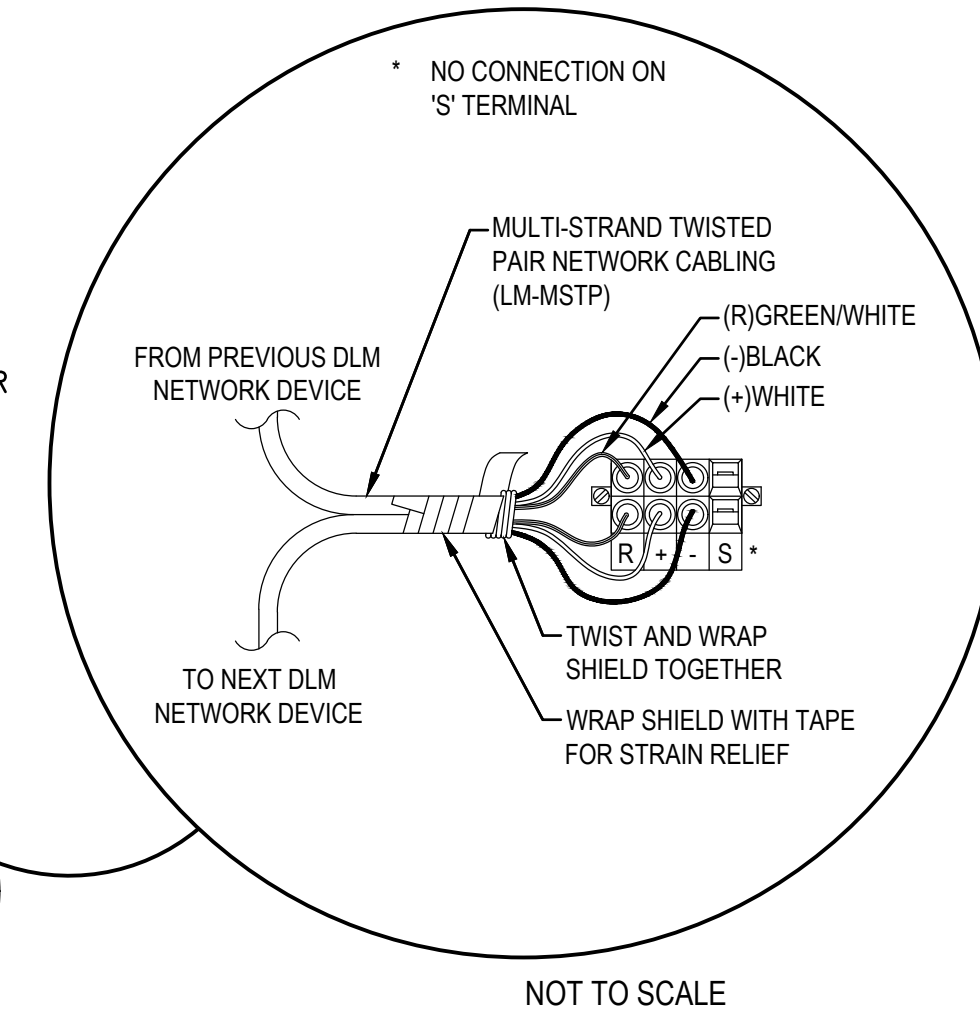


INSULATION STRIP GUIDE

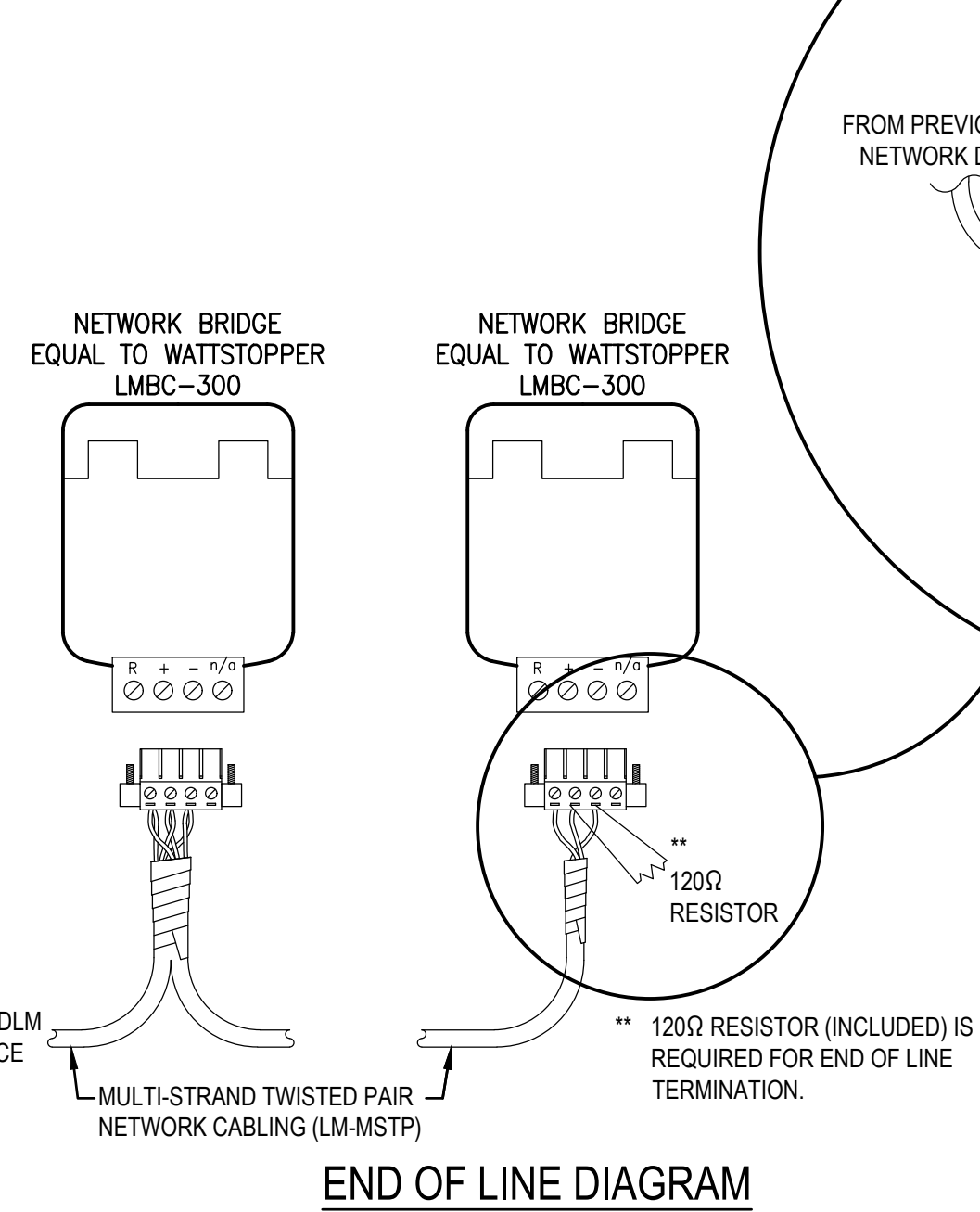
INSULATED WIRE FERRULE



INTERCONNECTION DIAGRAM



TYPICAL BRIDGE DEVICE CONNECTION DETAILS



END OF LINE DIAGRAM



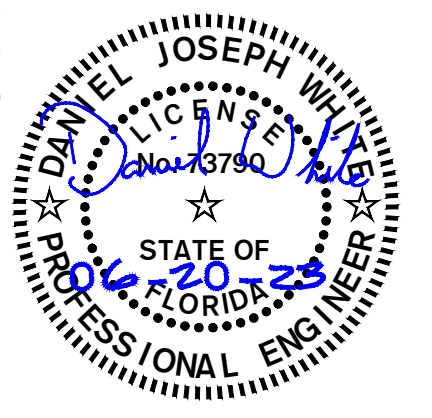
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No.	Description	Date

LIGHTING CONTROL DETAILS

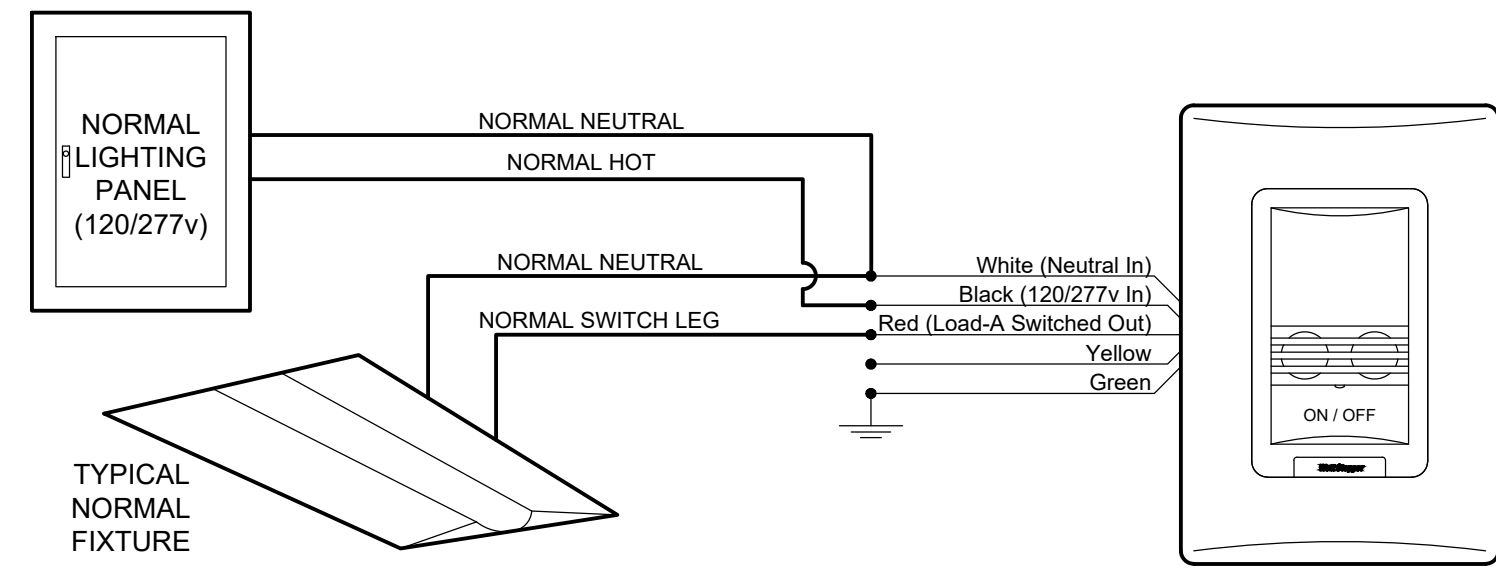
Project number: 18106
Date: 06-20-2023
PIC: CP
PM: RE

2043 Job No.

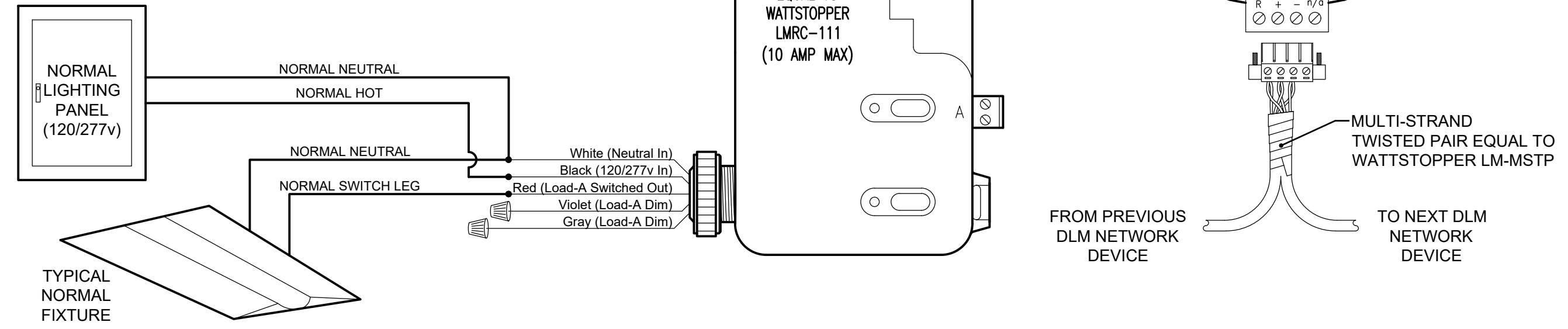


E702

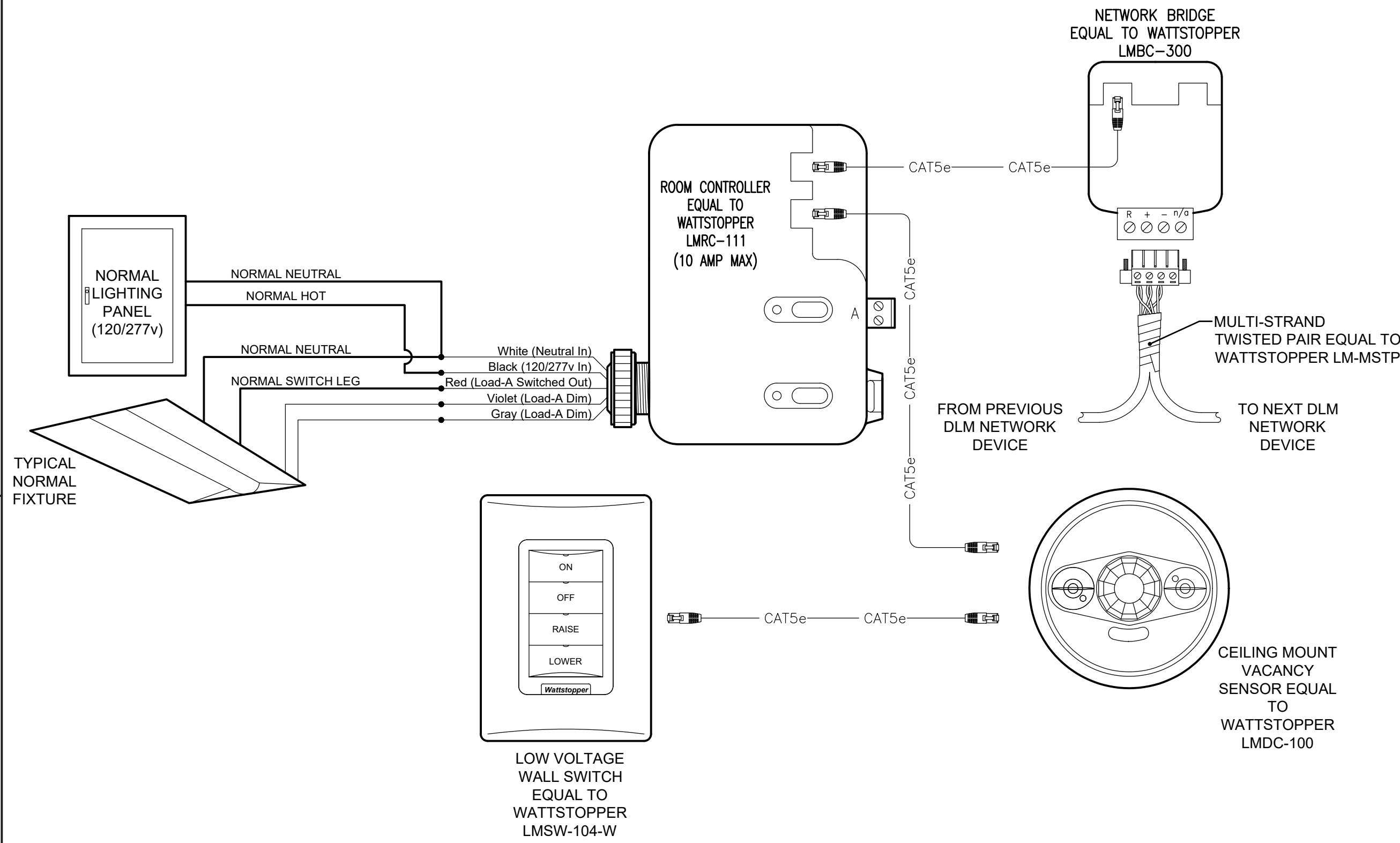
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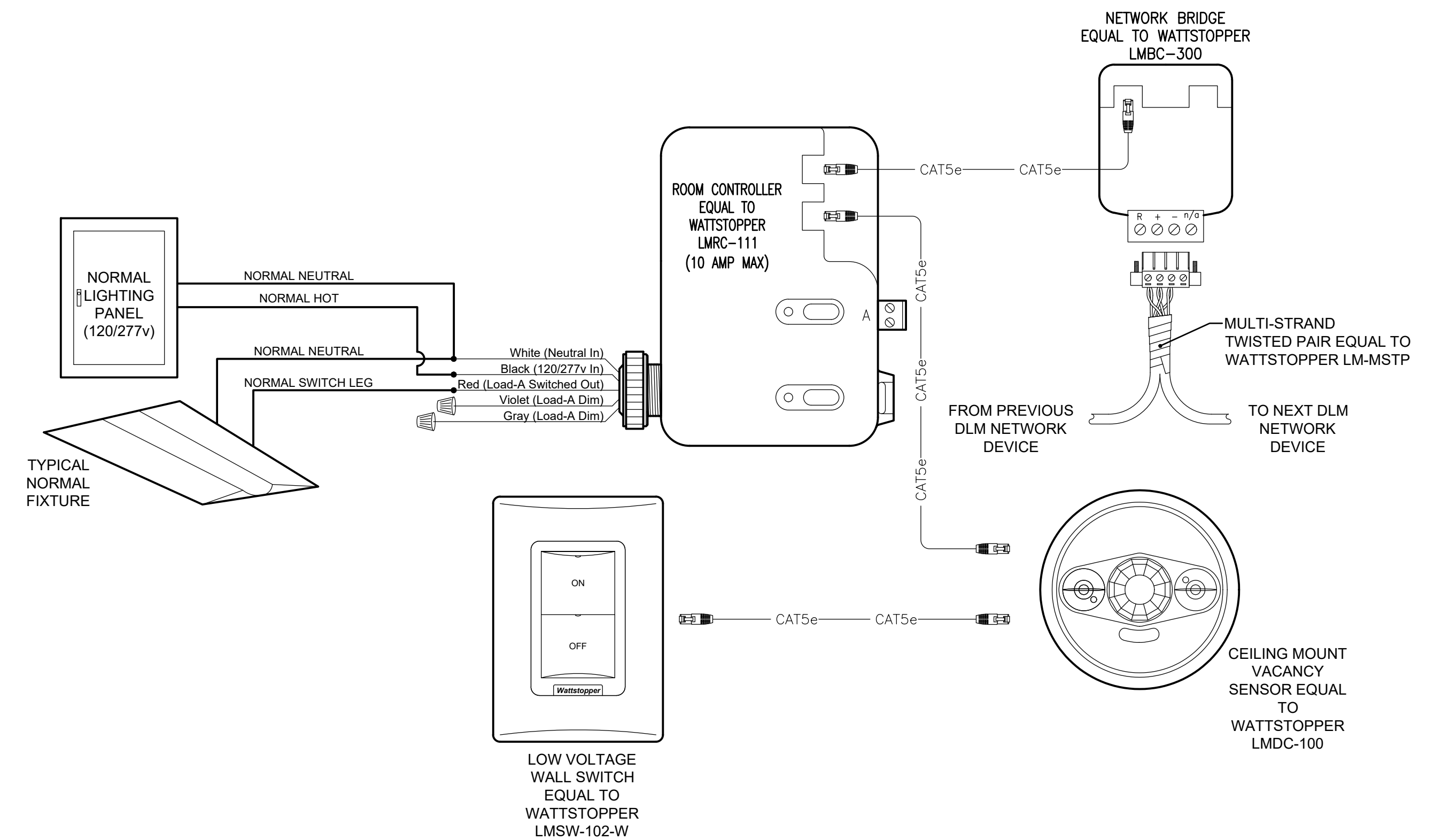
DESIGNATION 'E'
TYPICAL LINE VOLTAGE SWITCHING WITH VACANCY SENSOR
NOT TO SCALE



DESIGNATION 'D'
TYPICAL EXTERIOR LIGHTING CONTROLS
NOT TO SCALE



DESIGNATION 'B'
TYPICAL DIMMED ROOM WITH VACANCY SENSING AND SWITCH INPUT
NOT TO SCALE



DESIGNATION 'A'
TYPICAL ROOM WITH OCCUPANCY SENSING, AND SWITCH INPUT
NOT TO SCALE

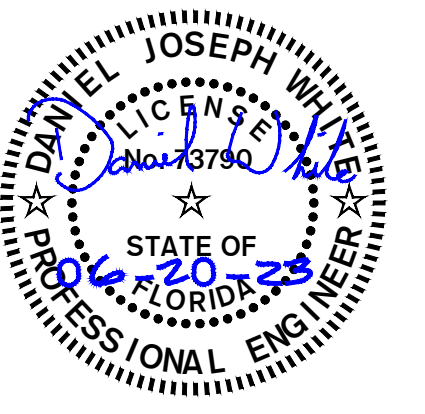


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PERMIT SET

South Walton County Mosquito Control District
New Headquarters Building

774 North County Highway 393
Santa Rosa Beach, Florida 32459



No.	Description	Date

LIGHTING CONTROL DETAILS

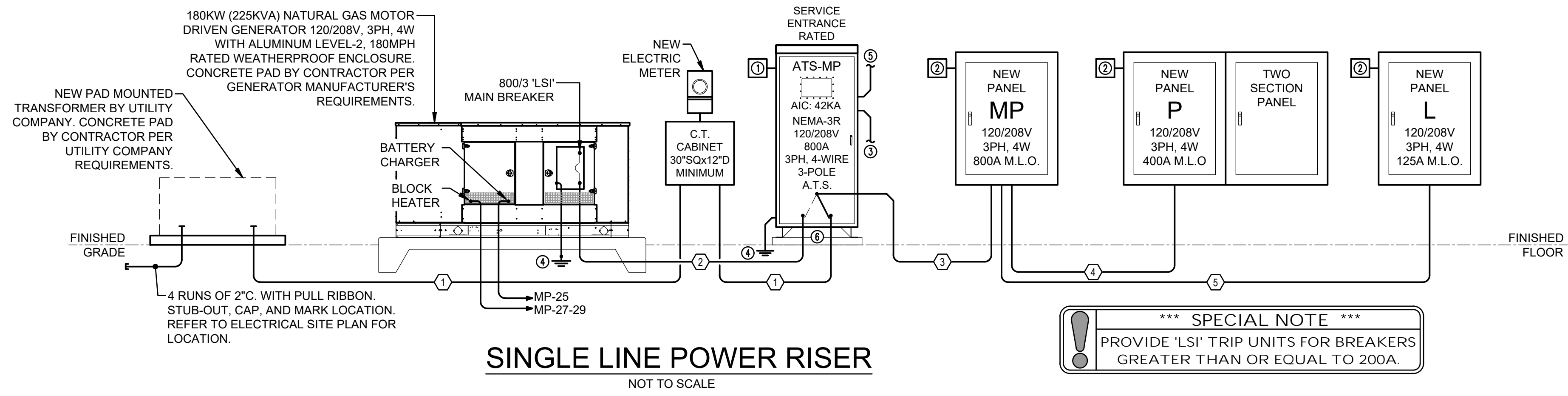
Project number: 18106
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 PIC: CP
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Job No. 2043

E703

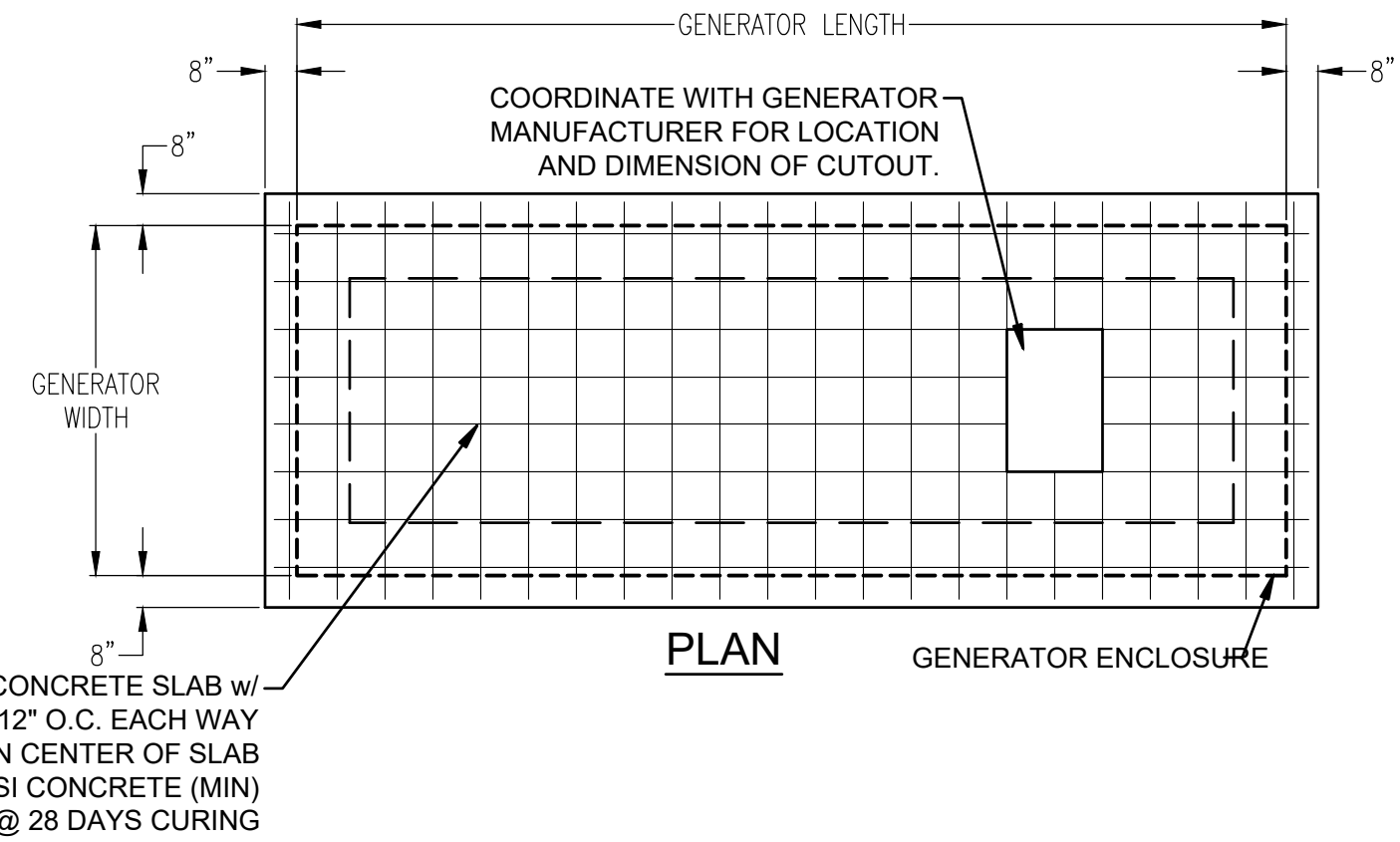
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*** SPECIAL NOTE ***
PROVIDE 'LSI' TRIP UNITS FOR BREAKERS GREATER THAN OR EQUAL TO 200A.

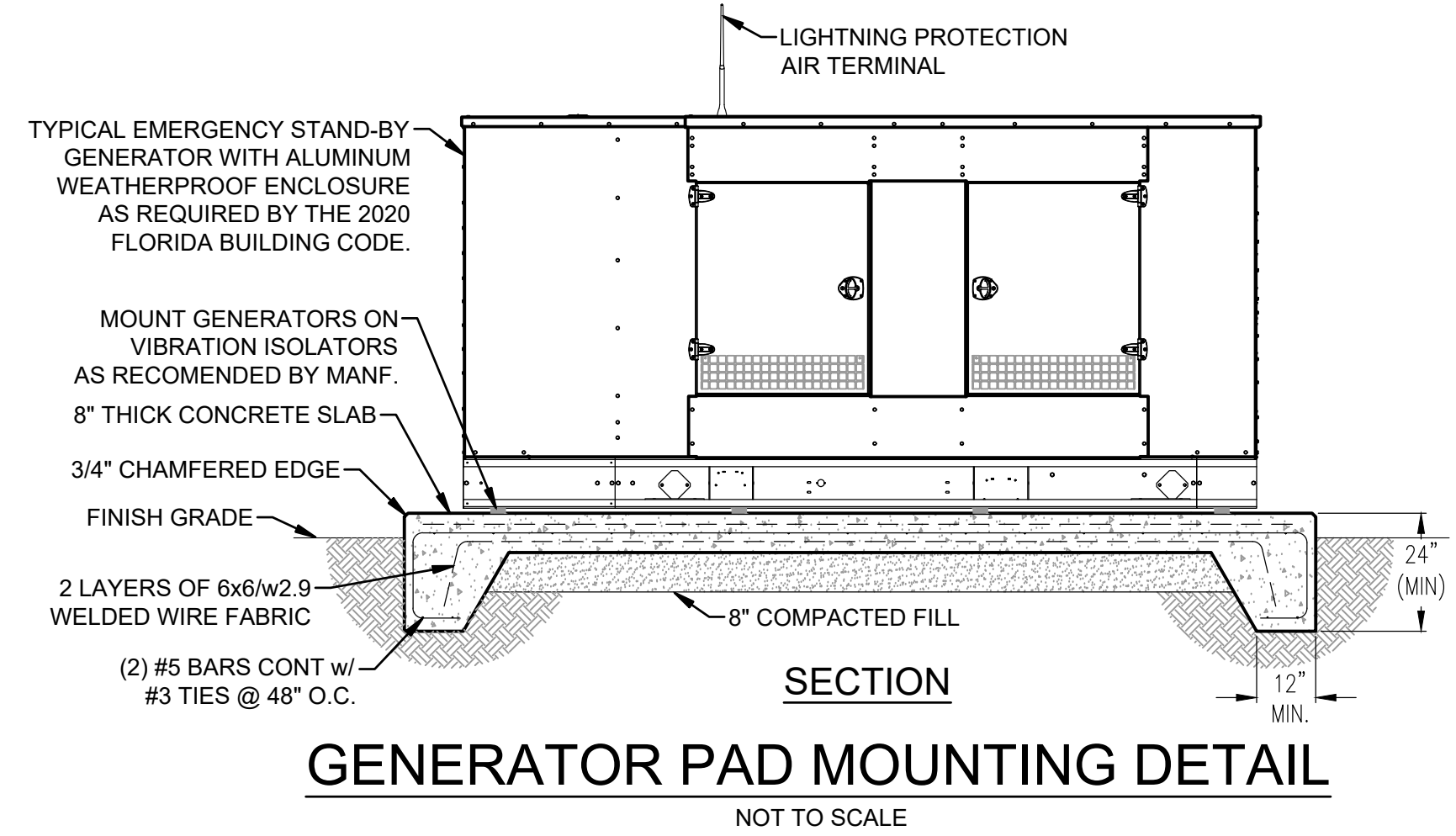
- NOTES:**
- ① INSTALL SURGE PROTECTIVE DEVICE IN BREAKER POSITION NEAREST TO NEUTRAL BAR WITH 3#10, 1#10 GND IN 3/4"C; LEAD LENGTH CANNOT EXCEED UL 1449 4TH EDITION TEST OF 14" - REFER TO SPECS. PROVIDE INTERNAL 60A. FUSING.
 - ② INSTALL SURGE PROTECTIVE DEVICE IN BREAKER POSITION NEAREST TO NEUTRAL BAR WITH 3#10, 1#10 GND IN 3/4"C; LEAD LENGTH CANNOT EXCEED UL 1449 4TH EDITION TEST OF 14" - REFER TO SPECS. PROVIDE INTERNAL 30A. FUSING.
 - ③ 1" CONDUIT FOR GENERATOR CONTROLS WIRING PER MANUFACTURER'S REQUIREMENTS.
 - ④ REFER TO GROUNDING DETAILS FOR COMPLETE GROUNDING REQUIREMENTS.
 - ⑤ 1" CONDUIT WITH MANUFACTURER RECOMMENDED CONTROL CABLES TO DDC PANEL. REFER TO MECHANICAL EQUIPMENT SCHEDULE.
 - ⑥ PROVIDE 4" CONCRETE HOUSKEEPING PAD.

DESIGNATION	FEEDER SCHEDULE										
	EQUIPMENT	BREAKER	CONDUCTOR / CONDUIT SIZE								
			SOURCE	TERMINATION	TRIP	POLE	RUNS	CONDUIT	QTY.	SIZE	GND
1	UTILITY XEMR	ATS-MP	800	3	3	2-1/2"	4	#300kcmil	-	-	CU
2	GENERATOR	ATS-MP	800	3	3	2-1/2"	4	#300kcmil	#1/0	CU	
3	ATS-MP	MP	800	3	3	2-1/2"	4	#300kcmil	#1/0	CU	
4	MP	P	400	3	2	2"	4	#3/0	#3	CU	
5	MP	L	125	3	1	1-1/2"	4	#1	#6	CU	



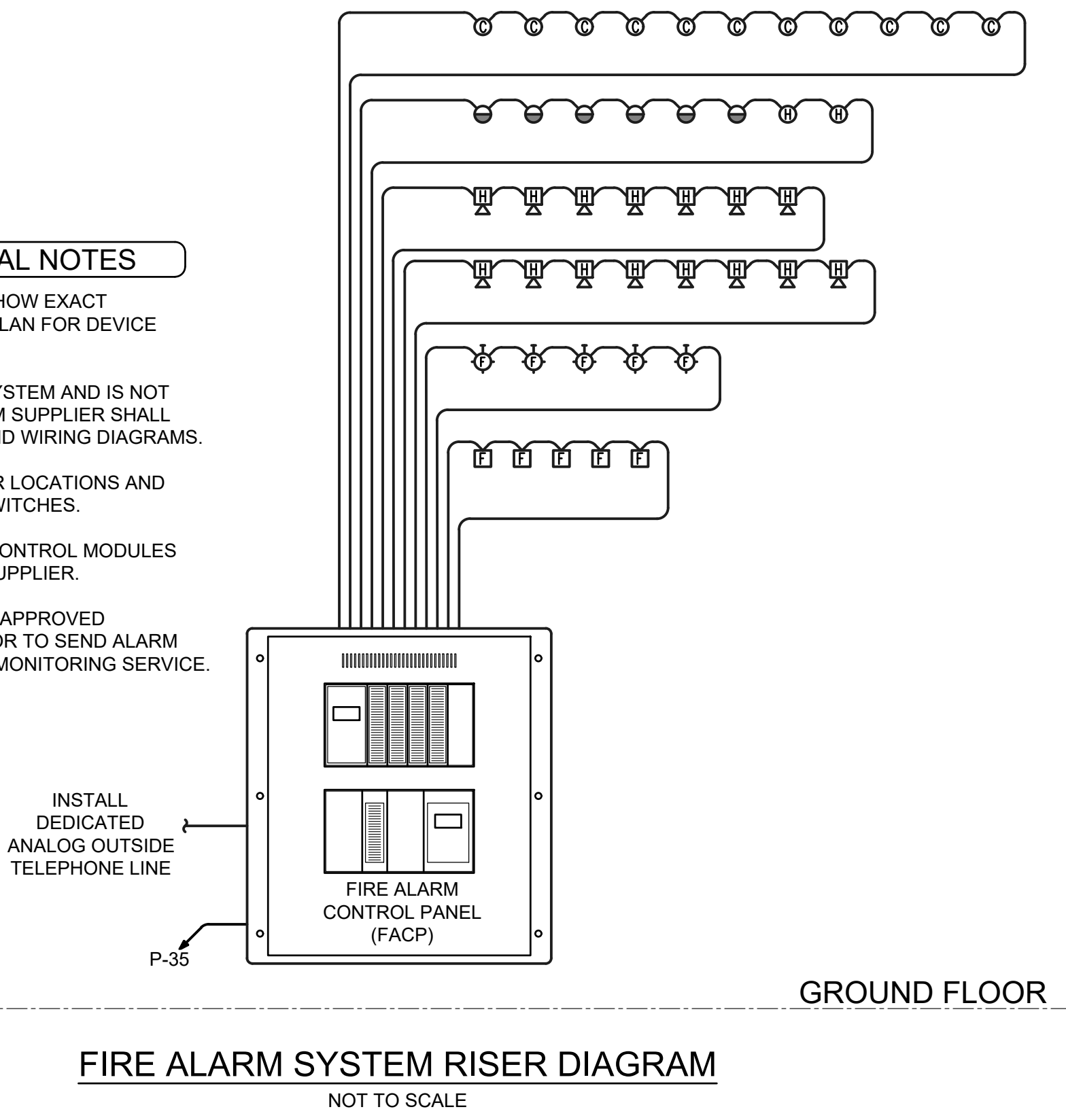
GENERATOR MOUNTING NOTES:

1. INSTALL WITH A MINIMUM CLEARANCE OF 3FT. FROM ALL BUILDINGS AND 4 FT. FROM ALL OBSTRUCTIONS.
2. CONCRETE SHALL HAVE A MINIMUM ULTIMATE 28 DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 3,000 LBS. PAD SHALL NOT BE CURED LESS THAN 72 HOURS.
3. SECURE GENERATOR TO CONCRETE PAD WITH ANCHOR BOLTS PER MANUFACTURER'S SPECIFICATIONS.
4. PROVIDE LIGHTING PROTECTION ON ENCLOSURE PER NFPA 780.



FIRE ALARM RISER GENERAL NOTES

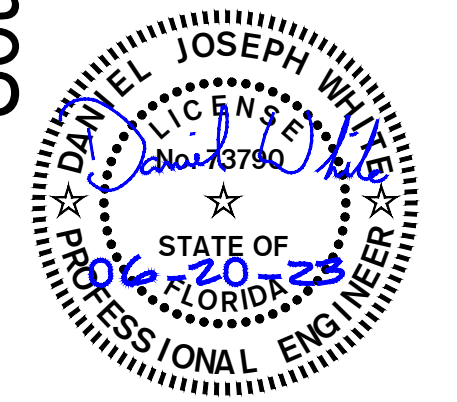
- A. THIS DIAGRAM IS NOT INTENDED TO SHOW EXACT QUANTITIES OF DEVICES. REFER TO PLAN FOR DEVICE QUANTITIES AND LOCATIONS.
- B. THE RISER REPRESENTS A TYPICAL SYSTEM AND IS NOT INTENDED FOR INSTALLATION. SYSTEM SUPPLIER SHALL PROVIDE INSTALLATION DRAWINGS AND WIRING DIAGRAMS.
- C. SEE FIRE PROTECTION INSTALLER FOR LOCATIONS AND QUANTITIES OF FLOW AND TAMPER SWITCHES.
- D. PROVIDE ADDITIONAL MONITOR AND CONTROL MODULES AS RECOMMENDED BY THE SYSTEM SUPPLIER.
- E. FIRE ALARM SYSTEM SHALL HAVE U/L APPROVED DIGITAL ALARM DIALER/COMMUNICATOR TO SEND ALARM SIGNAL TO LOCAL FIRE DEPARTMENT MONITORING SERVICE.



PERMIT SET

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No.	Description	Date

SINGLE LINE POWER RISER

Project number: 18106
 Date: 06-20-2023
 PIC: CP
 PM: RE



2043 Job No.

E801

