

ELECTRICAL GENERAL NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE DRAWINGS, WHERE A DISCREPANCY OR CONFLICT IS FOUND BETWEEN ONE DRAWING AND ANOTHER THE CONTRACTOR SHALL NOTIFY THE A/E IMMEDIATELY IN WRITTEN FORM. CONTRACTOR SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL A WRITTEN DIRECTIVE HAS BEEN RETURNED. IN GENERAL, THE MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS THE DISCREPANCY CONFLICTS WITH APPLICABLE CODES, WHEREIN THE CODE SHALL GOVERN.
2. THE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EVERY DETAIL OF CONSTRUCTION, METHODS, MATERIALS AND EQUIPMENT, OR EXACT LOCATIONS, ROUTING, ETC. THEY INDICATE THE RESULT TO BE ACHIEVED BY THE ASSEMBLAGE OF SEVERAL SYSTEMS FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. DO NOT SCALE THE CONTRACT DOCUMENTS. COORDINATE EXACT EQUIPMENT LOCATIONS WITH THE ARCHITECTURAL PORTIONS OF THE CONTRACT DOCUMENTS, AS WELL AS FIELD CONDITIONS, APPROVED SHOP DRAWINGS, AND WORK OF ALL OTHER DIVISIONS/TRADES.
3. THE TERM "PROVIDE" USED IN THE CONTRACT DOCUMENTS INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL MATERIALS, INCLUDING ALL COST FOR SHIPPING, UNLOADING, STORAGE, UNPACKING, ERECTION, ANCHORING, ETC. REQUIRED FOR CORRECT INSTALLATION OF A COMPLETE SYSTEM, UNLESS SPECIFICALLY NOTED OTHERWISE.
4. UNLESS NOTED AS EXISTING, ALL ELECTRICAL INDICATED IN THE CONTRACT DOCUMENTS SHALL BE NEW. EQUIPMENT SHALL BE INSTALLED AND USED IN ACCORDANCE WITH ANY INSTRUCTIONS INCLUDED IN THE LISTING OR LABELING.
5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), ALL APPLICABLE LOCAL CODES, ORDINANCES AND ALL REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION (AHJ), AS A MINIMUM.
6. THE CONTRACTOR SHALL CARRY ALL INSURANCE REQUIRED TO PROTECT AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THIS PROJECT.
7. THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP ARE FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE A/E AND OWNER. THE CONTRACTOR, AT NO ADDITIONAL COSTS, SHALL PROVIDE THE CORRECTION OF ANY DEFECTS INCLUDING REPAIR OR REPLACEMENT.
8. THE CONTRACTOR SHALL VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND/OR SITE AFFECTED BY THIS WORK PRIOR TO SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT MAY AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT AND/OR MATERIALS REQUIRED DUE TO DIFFICULTIES ENCOUNTERED THAT COULD HAVE REASONABLY BEEN OBSERVED BY THE CONTRACTOR WILL NOT BE RECOGNIZED.
9. THE CONTRACTOR SHALL COORDINATE ALL PROJECT SCHEDULING REQUIREMENTS WITH A/E AND OWNER PRIOR TO SUBMITTING PROPOSAL. THIS PROJECT MAY REQUIRE PHASING SEQUENCES AND POTENTIAL PREMIUM TIME WORK AND ALL COSTS FOR SUCH SHALL BE INCLUDED IN THE CONTRACTOR'S PROPOSAL. THE CONTRACTOR SHALL PROVIDE ADEQUATE WORK FORCE, EQUIPMENT, AND SHALL WORK SUCH HOURS INCLUDING PREMIUM TIME AS MAY BE REQUIRED IN ORDER TO ADHERE TO THE PROJECT SCHEDULE. ADDITIONALLY, THE CONTRACTOR SHALL ENSURE THAT LONG-LEAD ITEMS DO NOT IMPACT THE PROJECT'S SCHEDULE OR PHASING.
10. ALL TEMPORARY DOWNTIME REQUIRED FOR SYSTEM TIE-IN OR SWITCHOVER FOR ANY PORTION OF THE ELECTRICAL SYSTEM SHALL BE PRE-APPROVED BY THE OWNER AND SCHEDULED IN ADVANCE.
11. IF HAZARDOUS MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE RULES, REGULATIONS AND GUIDELINES CONCERNING REMOVAL, HANDLING, DISPOSAL, AND PROTECTION AGAINST ENVIRONMENTAL EXPOSURE OR POLLUTION. CONTRACTOR SHALL PROVIDE DOCUMENTATION OF SAID COMPLIANCE.
12. CONDUCT WORK OPERATIONS AND DEBRIS REMOVAL IN A MANNER THAT ENSURES MINIMUM INTERFERENCE WITH NORMAL BUSINESS OPERATIONS, TRAFFIC, PARKING, ETC. ONGOING IN ADJACENT OCCUPIED SPACES OR FACILITIES. PROVIDE ALL THAT IS REQUIRED TO EFFECTIVELY PROTECT SURROUNDING OCCUPANTS, EQUIPMENT, FINISHES, FURNITURE, ETC. FROM DAMAGE OR EXCESSIVE NOISE THROUGHOUT THE DURATION OF THIS PROJECT. ANY DAMAGE TO SURROUNDING ELEMENTS RESULTING FROM THE CONTRACTOR'S FAILURE TO ADHERE TO THIS REQUIREMENT SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR, TO THE SATISFACTION OF THE A/E AND OWNER, AT NO ADDITIONAL COSTS. REPORT ANY SUCH OCCURRENCE TO THE A/E AND OWNER IMMEDIATELY AND AWAIT WRITTEN DIRECTION PRIOR TO PROCEEDING WITH REPAIRS.
13. CONTRACTOR SHALL MAINTAIN A CURRENT ACCURATE SET OF PROJECT RECORD DOCUMENTS (AS-BUILTS) AT THE SITE THROUGHOUT THE DURATION OF THIS PROJECT. RECORD DRAWINGS SHALL BE UPDATED EACH DAY TO REFLECT THE ACTUAL LOCATIONS, SIZES, ROUTING, ETC. OF EACH PORTION OF THE ELECTRICAL SYSTEM AFFECTED BY THIS WORK. A FINAL SET OF RECORD DOCUMENTS SHALL BE ISSUED TO THE A/E FOR REVIEW AND THEN SUBMITTED TO THE OWNER AT THE CONCLUSION OF THE PROJECT.
14. ALL 120V, 20A BRANCH CIRCUITS OVER 80'-0" IN LENGTH SHALL BE #10 AWG CU CONDUCTORS, CIRCUITS OVER 150'-0" IN LENGTH SHALL BE #8 AWG CU CONDUCTORS MINIMUM TO ACCOMMODATE VOLTAGE DROP. WHERE A CONFLICT EXISTS BETWEEN THIS REQUIREMENT AND CONDUCTOR SIZES INDICATED ELSEWHERE IN THE CONTRACT DOCUMENTS, THIS REQUIREMENT SHALL TAKE PRECEDENCE.
15. IN GENERAL, VOLTAGE DROP FOR ANY BRANCH CIRCUIT SHALL NOT EXCEED 3%. VOLTAGE DROP FOR ANY FEEDER SHALL NOT EXCEED 2%. WHERE VOLTAGE DROP EXCEEDS THESE REQUIREMENTS, THE CONTRACTOR SHALL INCREASE THE SIZE OF THE CONDUCTORS AND RACEWAY AS REQUIRED.
16. CONTRACTOR SHALL PROVIDE ALL PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS AND ROOFS. COORDINATE LOCATIONS AND SIZES WITH THE ARCHITECTURAL AND STRUCTURAL PORTIONS OF THE CONTRACT DOCUMENTS, FIELD CONDITIONS, AND WORK OF ALL OTHER DIVISIONS/TRADES. ALL OPENINGS SHALL BE SEALED WATERTIGHT.
17. WHERE OPENINGS PENETRATE A FIRE RATED FLOOR, WALL, CEILING, OR ROOF, FIRESTOPPING SHALL BE PROVIDED. MEET ALL REQUIREMENTS FOR THE U.L. ASSEMBLY AND RACEWAYS INVOLVED.
18. ALL COMPONENTS OF THE ELECTRICAL SYSTEM LOCATED OUTDOORS OR INDOORS WHERE EXPOSED TO SIGNIFICANT MOISTURE SHALL BE RAINPROOF TYPE NEMA 3R (MINIMUM), WHETHER INDICATED ON CONTRACT DOCUMENTS OR NOT.
19. ALL WORK ON THE ELECTRICAL SYSTEM REQUIRED BY THE CONTRACT DOCUMENTS SHALL BE COORDINATED WITH THE WORK OF ALL OTHER DIVISIONS/TRADES PRIOR TO THE COMMENCEMENT OF WORK. AVOID INTERFERENCES WITH THE PROGRESS OF OTHER DIVISIONS/TRADES. CONTRACTOR SHALL PROVIDE COORDINATION DRAWINGS TO INCLUDE HVAC, POWER, LIGHTING AND SPECIAL SYSTEMS COMPONENTS PRIOR TO INSTALLATION, FAILURE TO COMPLY WITH THIS REQUEST MAY RESULT IN DIRECTIVE TO REMOVE SUCH SYSTEM DEVICE.
20. COORDINATE THE EXACT LOCATIONS OF ALL DEVICES (RECEPTACLES, TELECOMMUNICATIONS OUTLETS, FIRE ALARM, SECURITY, ETC.) WITH THE ARCHITECTURAL PLANS, FURNITURE SYSTEMS PLAN, OWNERS REPRESENTATIVE, APPROVED MILLWORK SHOP DRAWINGS, AND FIELD CONDITIONS PRIOR TO ROUGH-IN.
21. COORDINATE THE EXACT REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO PREPARING SUBMITTALS (PRODUCT DATA & SHOP DRAWINGS). THE CONTRACTOR SHALL PROVIDE ALL RACEWAYS, CONDUCTORS, BOXES, EQUIPMENT, DISCONNECT SWITCHES, CIRCUIT BREAKERS, CONTROL CIRCUITS, CONTROL TRANSFORMERS, FIRE ALARM SHUTDOWN, ETC. REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT PRIOR TO COMMENCEMENT OF WORK.
22. THE USE OF ALUMINUM CONDUCTORS, RACEWAYS, BOXES, BUSSING, WINDINGS, ETC. ARE PROHIBITED UNLESS SPECIFICALLY NOTED OTHERWISE.
23. ALL FEEDER AND BRANCH CIRCUIT CONDUCTORS, INCLUDING LOW VOLTAGE SYSTEMS, SHALL BE INSTALLED IN A COMPLETE RACEWAY SYSTEM UNLESS SPECIFICALLY NOTED OTHERWISE.
24. STEEL TYPE "MC" CABLE #12 AWG AND #10 AWG WITH A FULL SIZED GROUNDING CONDUCTOR MAY BE USED WHERE PERMITTED BY BOTH THE N.E.C. AND LOCAL ORDINANCE, IN THE FOLLOWING APPLICATIONS:
1. IN WALL FOR HORIZONTAL DEVICE CONNECTION ONLY. HOMERUNS TO PANELBOARDS SHALL BE EMT OR PVC (BELOW GRADE)
25. FLEXIBLE METAL CONDUIT AND LIQUIDTIGHT FLEXIBLE METAL CONDUIT (FMC & LFMC) SHALL NOT BE USED IN LENGTHS THAT EXCEED 6'-0" UNLESS SPECIFICALLY NOTED OTHERWISE, OR UNLESS A/E AND OWNER GRANTS WRITTEN PERMISSION.
26. PROVIDE TYPED PANEL DIRECTORIES FOR ALL PANELBOARDS.
27. ALL DEVICE OUTLET BOXES, JUNCTION BOXES, PULL BOXES, AND RACEWAYS SHALL BE CONCEALED IN CEILINGS, WALLS OR BELOW SLAB UNLESS SPECIFICALLY NOTED OTHERWISE, OR UNLESS A/E AND OWNER GRANTS WRITTEN PERMISSION.
28. ALL LIGHTING FIXTURES SHALL BE PROVIDED COMPLETE WITH LAMPS.
29. PROVIDE WET LOCATION LISTED FUSING AT EACH EXTERIOR LIGHTING FIXTURE THAT CONTAINS BALLASTS.
30. NEW HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT SHALL BE PROTECTED WITH HACR RATED CIRCUIT BREAKERS OR FUSES.
31. ALL WIRING DEVICES WILL BE BACKWIRED.
32. ALL CONDUCTORS SHALL BE STRANDED.
33. FOR EXACT LOCATION OF NEW LIGHT FIXTURES REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN.
34. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE INSTALLATION WITH EXISTING CEILING CONDITIONS AND PROVIDE NECESSARY HARDWARE, OR ADJUST FIXTURE MODEL NUMBER TO INCLUDE PROPER MOUNTING OPTIONS.

ELECTRICAL GENERAL NOTES: (CONT.)

35. CONTRACTOR SHALL PROVIDE AN UNSWITCHED CIRCUIT TO NEW EXIT SIGN AND WALL MOUNTED EMERGENCY LIGHT FIXTURES. CIRCUIT SHALL BE SAME AS THAT OF THE NORMAL LIGHTING CIRCUIT FOR THE ROOM.
36. ALL EMERGENCY LIGHT FIXTURES AND EXIT SIGNS SHALL HAVE AN INTEGRAL BATTERY THAT WILL PROVIDE A MINIMUM OF 90 MINUTES OF EMERGENCY OPERATION.
37. NEW LIGHT FIXTURES SHALL BE LISTED AND SUITABLE FOR THE SPECIFIC APPLICATION AND SHALL BEAR LABEL STATING SUCH.
38. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE FOR ALL DEVICES, FIXTURES AND MATERIALS USED PRIOR TO ORDERING.
39. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE OF DEFECTS FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE.
40. PROVIDE FIELD MARKINGS WARNING PERSONNEL OF POTENTIAL ARC FLASH HAZARDS IN ACCORDANCE WITH NEC 110.

ELECTRICAL SYSTEMS LEGEND

	CEILING MOUNTED 120V SMOKE DETECTOR.
	CABLE TV OUTLET. PROVIDE 1" EMPTY CONDUIT STUBBED ABOVE ATTIC.
	SMOKE/CARBON MONOXIDE DETECTOR COMBO, CEILING MOUNTED
	TELEPHONE OUTLET MOUNTED 18" AFF, UNLESS OTHERWISE NOTED. PROVIDE 4" X 4" X 2 1/8" BOX WITH SINGLE GANG PLASTER RING AND 1" EMPTY CONDUIT STUB UP ABOVE CEILING
	ETHERNET OUTLET
	DATA OUTLET WITH 1" EMPTY CONDUIT STUB UP ABOVE CEILING
	FIRE EXTINGUISHER
	TELEVISION OUTLET
	FIRE ALARM ANNUNCIATOR DEVICE
	CEILING MOUNTED PAGING SYSTEM SPEAKER
	WALL MOUNTED PAGING SYSTEM SPEAKER
	SIGNALING HORN WITH VISUAL SIGNAL (STROBE, 7500 UNLESS NOTED)
NOTE: NOT ALL SYMBOLS ARE USED.	

ELECTRICAL POWER LEGEND

	HOMERUN TO PANEL. "X" INDICATES PANEL, "Y" INDICATES CIRCUIT NUMBER(S).
	POP-UP COUNTER RECEPTACLES
	VAPOR PROOF
	WEATHER PROOF
	GARAGE DOOR OPENER
	AUTOMATIC VOLUME DAMPER
	GAS WATER HEATER
	RECEPTACLE LABELING WHEN NOT SHOWING CONDUIT AND WIRE. "X" INDICATES PANEL, "Y" INDICATES CIRCUIT NUMBER(S), "WP" INDICATES WEATHERPROOF NEMA 3R ENCLOSURE. MOUNTING HEIGHT 18" A.F.F. TO E.
	ABOVE COUNTER RECEPTACLE MOUNTING HEIGHT 48" A.F.F. TO E OR NOTED OTHERWISE. COORDINATE EXACT HEIGHT WITH MILLWORK AND ARCHITECT PRIOR TO ROUGH-IN.
	WALL MOUNTED DUPLEX RECEPTACLE WITH ONE RECEPTACLE CONTROLLED BY SWITCH.
	JUNCTION BOX MOUNTED IN OR ABOVE CEILING.
	WALL MOUNTED JUNCTION BOX, MOUNTING HEIGHT PER SPEC. UNLESS OTHERWISE NOTED.
	PUSHBUTTON, TYPE AS NOTED, MOUNTED 48" AFF, UNLESS OTHERWISE NOTED.
	20 AMP SINGLE POLE MANUAL MOTOR STARTING SWITCH WITHOUT OVERLOAD PROTECTION. MAXIMUM RATING: 1HP @ 120V, 2HP @ 240V.
	NONFUSED DISCONNECT SWITCH. XX=AMP SIZE, X=POLES AND ENCLOSURE AS INDICATED. "WP" INDICATES WEATHERPROOF NEMA 3R ENCLOSURE.
	FUSED DISCONNECT SWITCH. AMP SIZE, POLES, FUSING AND ENCLOSURE AS INDICATED. "WP" INDICATES WEATHERPROOF NEMA 3R ENCLOSURE.
	VARIABLE SPEED DRIVE UNIT.
	SURFACE MOUNTED POWER OR APPLIANCE PANELBOARD.
	GROUND FAULT CIRCUIT INTERRUPTER
	220V RECEPTACLE
	RECESSED FLOOR MOUNTED DUPLEX RECEPTACLE WITH FLUSH COVER
	RECESSED FLOOR MOUNTED POKE THRU WITH DUPLEX RECEPTACLE AND FLUSH COVER
NOTE: NOT ALL SYMBOLS ARE USED.	

ELECTRICAL DEMOLITION NOTES:

1. COORDINATE PROJECT DEMOLITION PHASING REQUIREMENTS WITH ARCHITECTURAL PLANS.
2. THE EXISTING FIRE ALARM SYSTEM SERVING THE FACILITY SHALL REMAIN COMPLETELY OPERATIONAL.
3. WHEN THE DEMOLITION NOTES CALL FOR EQUIPMENT REMOVAL, THE INTENT IS TO REMOVE BACK TO SOURCE. ALL EXISTING ELECTRICAL CONDUIT AND CONDUCTORS SERVING EXISTING SYSTEMS OR DEVICES THAT ARE TO BE REMOVED SHALL BE COMPLETELY REMOVED. NO CONDUITS OR CONDUCTORS ARE TO BE ABANDONED.
4. ELECTRICAL CONTRACTOR SHALL INITIATE A MEETING AT THE SITE WITH THE OWNERS REPRESENTATIVE TO DISCUSS AND BECOME FAMILIAR WITH EXISTING ELECTRICAL CIRCUITS THAT ARE TO BE MAINTAINED OPERATIONAL. THE INTENT IS FOR THE CONTRACTOR TO IDENTIFY THOSE CIRCUITS PRIOR TO COMMENCING DEMOLITION EFFORTS.
5. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS PRIOR TO COMMENCING ANY DEMOLITION EFFORT. PRIOR TO ORDERING THE NEW LIGHT FIXTURES THE CONTRACTOR SHALL COORDINATE VOLTAGES WITH THE EXISTING AREA CIRCUITS THAT ARE TO BE RE-USED. CONTRACTOR SHALL PROVIDE IN WRITING ANY VOLTAGE CONFLICT PRIOR TO THE INSTALLATION OF THE NEW LIGHT FIXTURES.

ELECTRICAL LIGHTING LEGEND

	2'x4' RECESSED LIGHT FIXTURE.
	2'x2' RECESSED LIGHT FIXTURE.
	RECESSED DOWNLIGHT.
	UNIVERSAL MOUNT EXIT SIGN. SHADING INDICATES NUMBER OF FACES, ARROWS INDICATE DIRECTIONAL CHEVRONS.
	COMBINATION EMERGENCY & EXIT LIGHTING
	20 AMP, 120/277 VOLT SINGLE POLE TOGGLE SWITCH MOUNTED 48" AFF, UNLESS OTHERWISE NOTED. LOWER CASE LETTER INDICATES SWITCH-LEG, (TYPICAL FOR ALL SWITCH SYMBOLS).
	LENSED FIXTURES
	DUAL TECHNOLOGY WALL MOUNTED VACANCY SENSOR SWITCH WITH OVERRIDE
	DUAL TECHNOLOGY CEILING MOUNTED VACANCY SENSOR WITH OVERRIDE.
	2000 WATT, 120 OR 277 VOLT PHOTOCELL WITH LIGHT LEVEL SELECTOR AND WALL MOUNTING BRACKET. MOUNT AS HIGH AS POSSIBLE, FACING NORTH.
	40 AMP, 120 OR 277 VOLT, 24-HOUR, 7-DAY, DIGITAL DPDT TIME CLOCK WITH 16-HOUR CARRYOVER MINIMUM IN A NEMA 1 ENCLOSURE (NEMA 3R FOR OUTDOOR LOCATIONS).
	30 AMP, 120 OR 277 VOLT ELECTRICALLY HELD MULTIPOLE LIGHTING CONTACTOR IN A NEMA 1 ENCLOSURE (NEMA 3R FOR OUTDOOR LOCATIONS). PROVIDE NUMBER OF POLES AS REQUIRED FOR NUMBER OF CIRCUITS CONTROLLED, PLUS 2 SPARES MINIMUM. CONTACTOR LABELING "C1, C2 & C3" TYPICAL FOR MULTIPLE CONTACTORS.
	NEW WALL SCONCE LIGHT FIXTURE
	NEW JUNCTION BOX FOR FUTURE FAN OR DECORATIVE LIGHT FIXTURE

ELECTRICAL SHEET INDEX

E0.1	ELECTRICAL LEGENDS, DETAILS, NOTES & SHEET INDEX
E1.1	POWER & SYSTEM PLAN
E1.2	LIGHTING PLAN
E3.1	PANEL SCHEDULES, ELECTRICAL RISER DIAGRAM

BIDDING NOTE:

CONTRACTOR SHALL REVIEW PLANS AND NOTES AND PROVIDE REQUEST FOR INFORMATION (RFI) TO ARCHITECT/ENGINEER OF RECORD PRIOR TO FINALIZING BID.

COORDINATION NOTE:

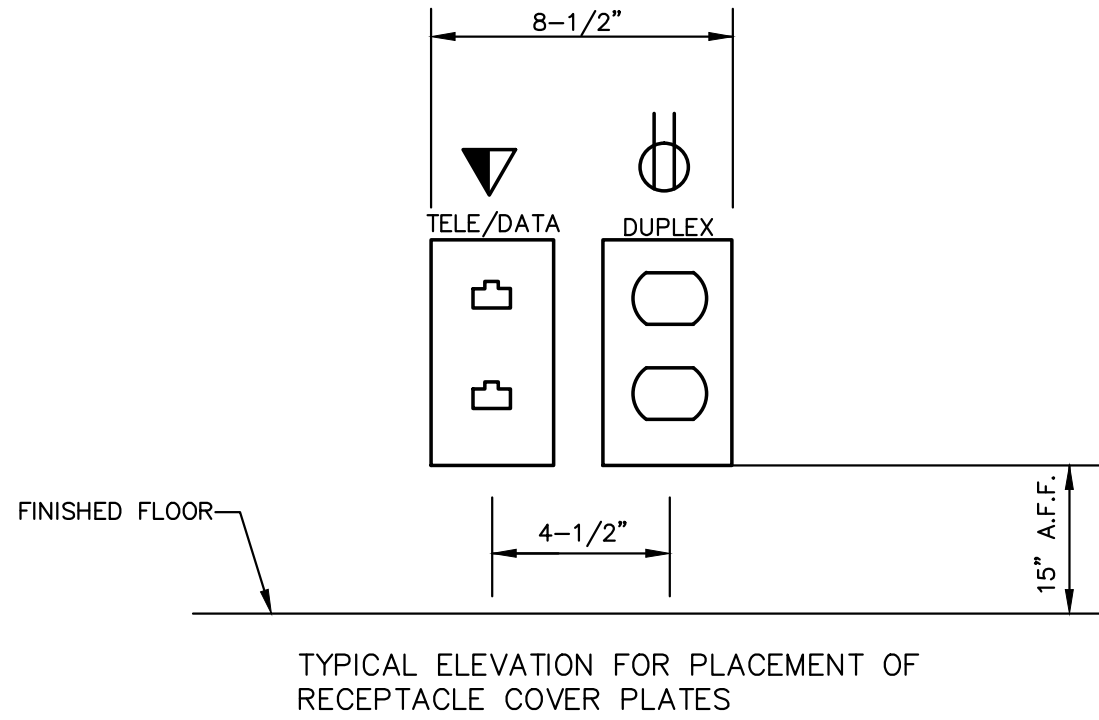
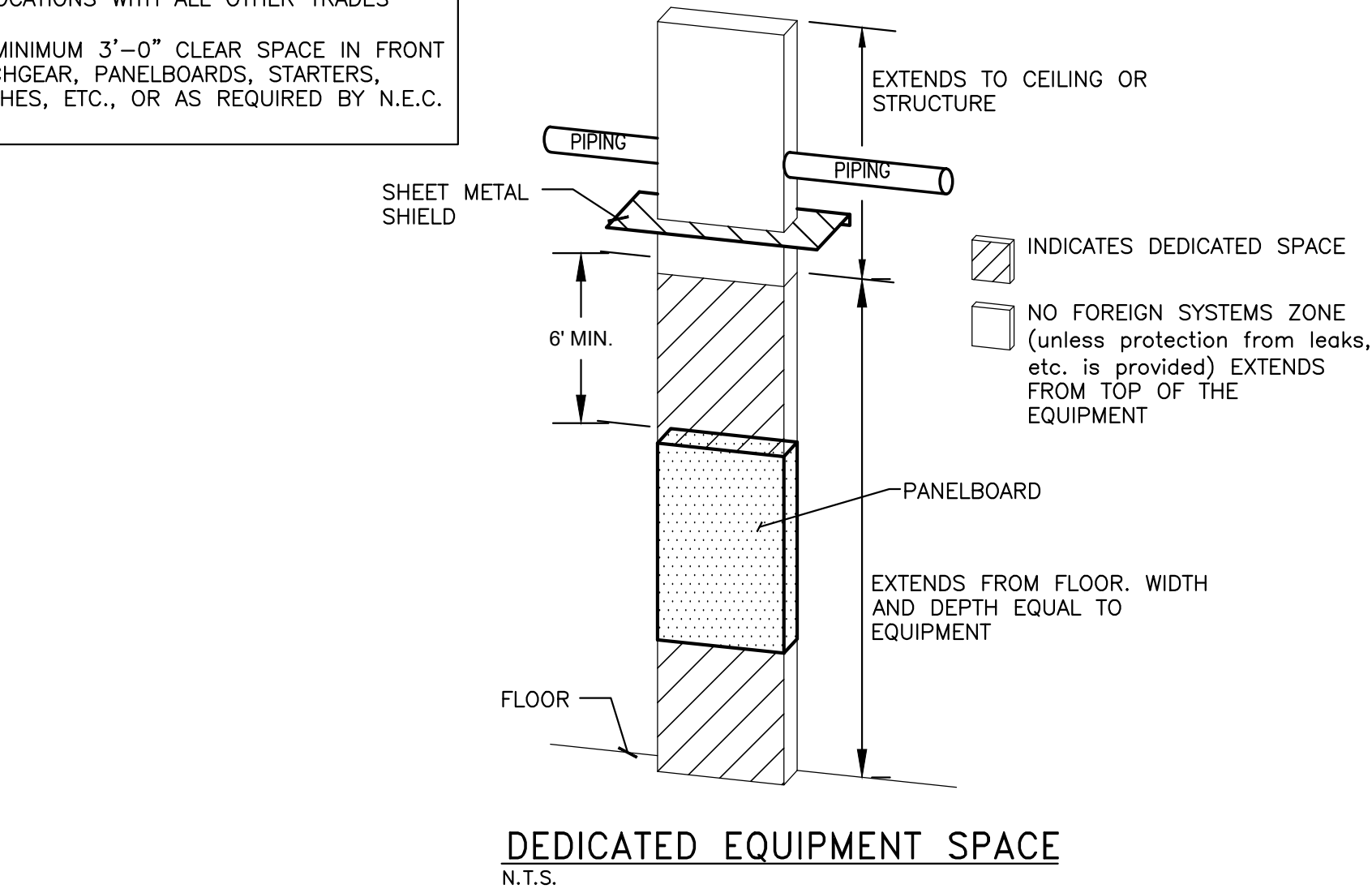
EACH CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF HIS EQUIPMENT AND WORK WITH THE GENERAL CONTRACTOR AND WORK OF ALL OTHER CONTRACTORS, SUB CONTRACTORS AND TRADES. ANY AND ALL EQUIPMENT, FIXTURES AND/OR MATERIAL REMOVED AND/OR INSTALLED WITHOUT THE PROPER COORDINATION SHALL BE REMOVED AND/OR REINSTALLED AT NO ADDITIONAL EXPENSE TO THE OWNER.

APPLICABLE ELECTRICAL CODES:

- INSTALLATION SHALL BE IN ACCORDANCE WITH:
1. FLORIDA BUILDING CODE 2023, 8TH EDITION
 2. FLORIDA BUILDING CODE ENERGY CONSERVATION, 2023 8TH EDITION
 3. FLORIDA FIRE PREVENTION CODE, 8TH EDITION
 4. NFPA 70 NATIONAL ELECTRICAL CODE, 2020 EDITION
 5. NFPA 101 LIFE SAFETY CODE, 8TH EDITION
 6. NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE, 2019
 7. LOCAL REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION
 8. FLORIDA RESIDENTIAL CODE, 2023 8TH EDITION
 9. FLORIDA BUILDING CODE EXISTING BUILDING, 2023 8TH EDITION
 10. FLORIDA STATUTES

NOTES:
1. ELECTRICAL CONTRACTOR SHALL COORDINATE EQUIPMENT LOCATIONS WITH ALL OTHER TRADES

2. MAINTAIN MINIMUM 3'-0" CLEAR SPACE IN FRONT OF ALL SWITCHGEAR, PANELBOARDS, STARTERS, SAFETY SWITCHES, ETC., OR AS REQUIRED BY N.E.C.



- NOTES:
1. LAYOUT MAY BE INVERTED TO SHOW FROM LEFT TO RIGHT.
 2. TELE/DATA FACEPLATE CONFIGURATION SPECIFIED BY OWNERS CABLING VENDOR.
 3. DUPLEX SHALL BE TREATED AS A STANDARD ELECTRICAL 1900 BOX.
 4. BACK TO BACK APPLICATIONS IN STANDARD WALLS REQUIRE AN OFFSET INSTALLATION WITH 24" METAL STUD SPACING.

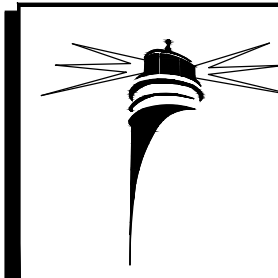
TYPICAL WALL TELE/DATA/POWER LAYOUT DETAIL

N.T.S.

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOEVEN M. VALENZUELA, P.E., ON 11/21/2025.

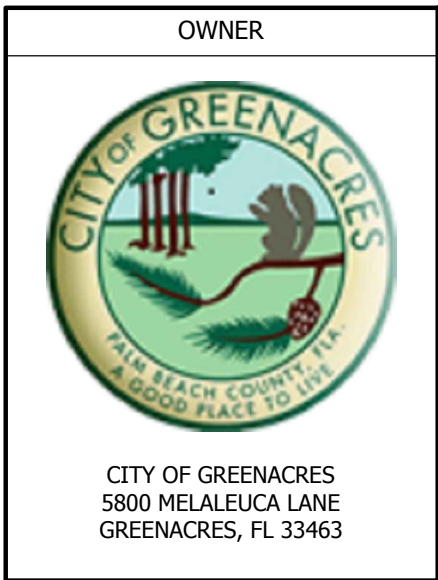
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

TO THE BEST OF MY KNOWLEDGE THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THE 2023 FLORIDA BUILDING CODE, ALL AMENDMENTS AND SECTION 633 OF THE FLORIDA STATUTES.



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CONSULTANT

PROJECT TITLE

**FIRE RESCUE STATION
95 LOUNGE
RENOVATION**

SUBMITTAL HISTORY


A	06/11/25 CONSTRUCTION DOCS

THE DRAWINGS AND SPECIFICATIONS INCLUDED OR REFERENCED HEREIN SHALL BE USED AS A COMPLETE SET AND SHALL NOT BE SEPARATED INTO INDIVIDUAL SHEETS OR BY DISCIPLINE.

INFORMATION CONTAINED ON ONE SHEET MAY SPECIFICALLY APPLY TO INFORMATION OR CONDITIONS ILLUSTRATED ON OTHER SHEETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT SUCH ITEMS ARE COORDINATED AND INCLUDED IN ANY PRICING INFORMATION.

FIELD VERIFY AND NOTIFY THE ARCHITECT OF ANY DEVIATIONS FROM THE PLANS AND / OR SPECS PRIOR TO CONSTRUCTION

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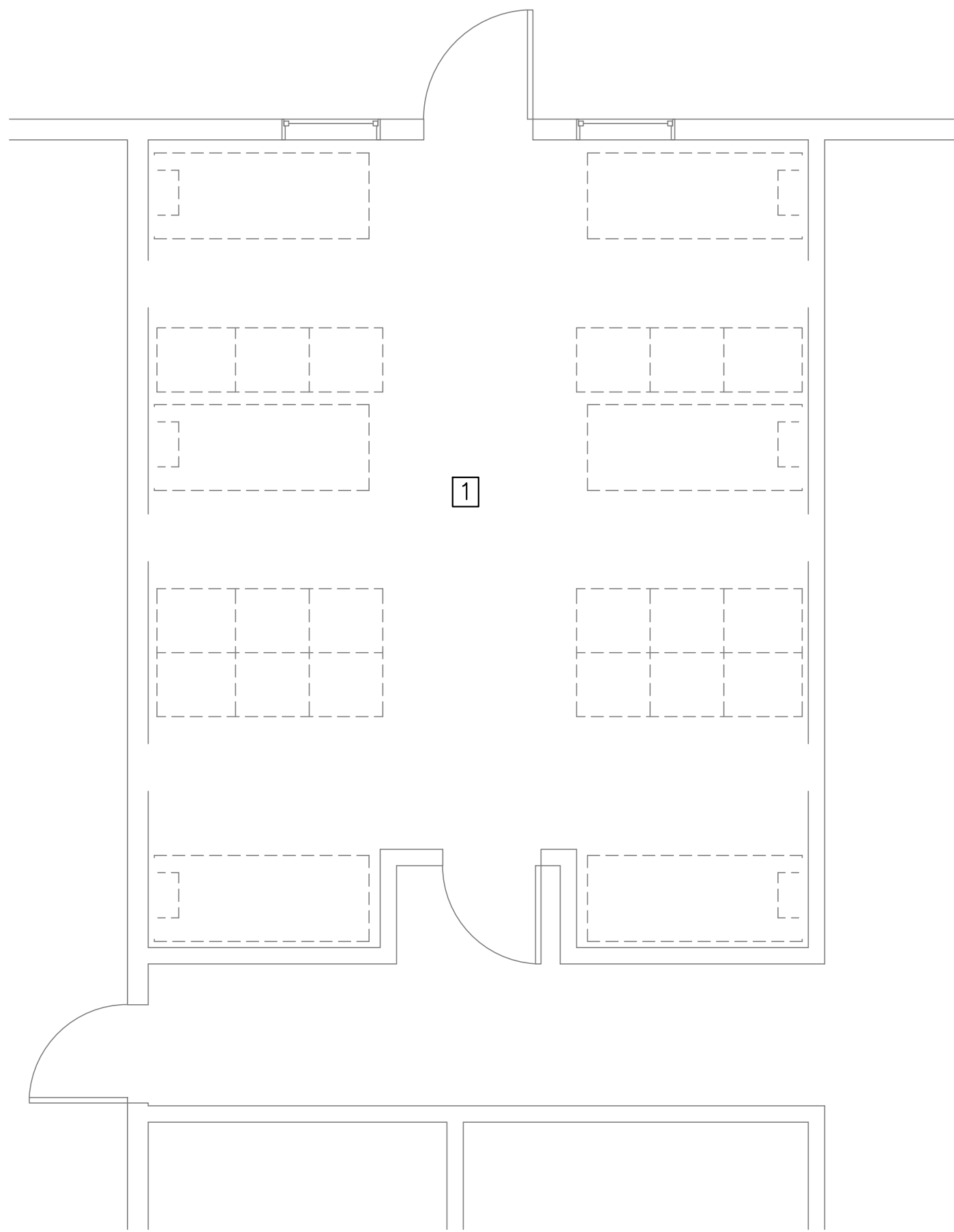
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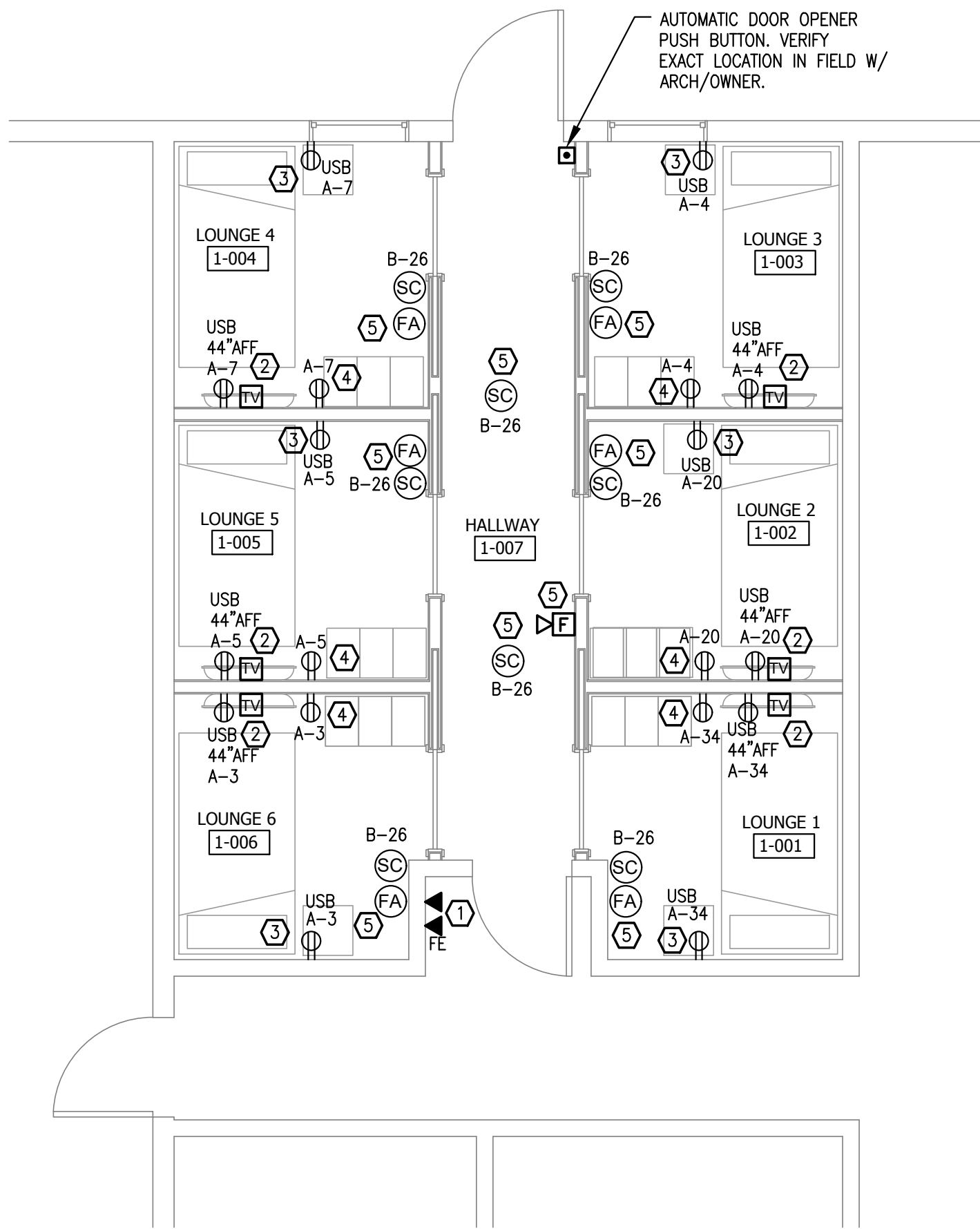
ELECTRICAL NOTES, LEGEND, & SHEET INDEX

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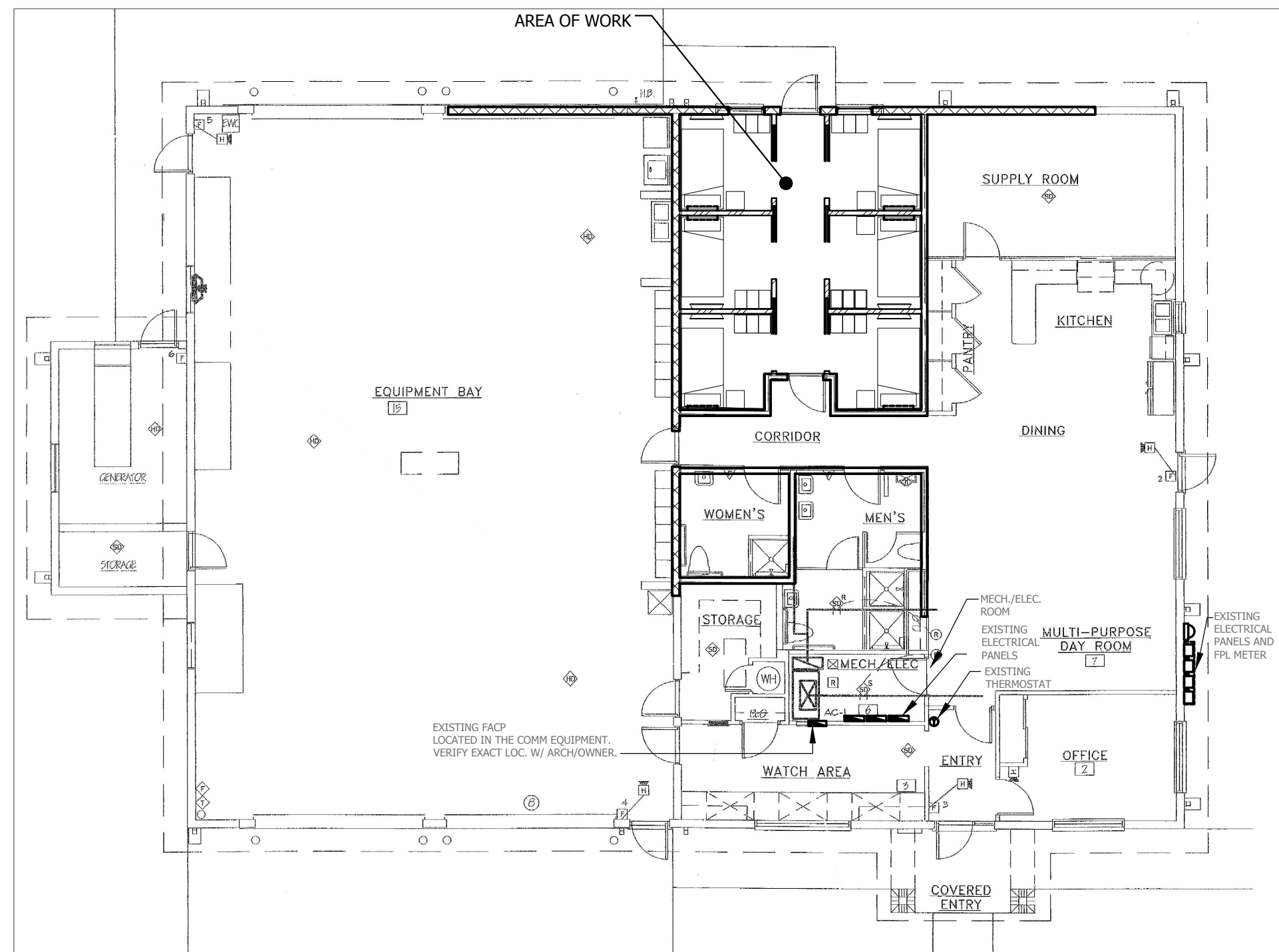
E0.1



01 POWER & SYSTEM DEMO PLAN
1/4" = 1'-0"



01 POWER & SYSTEM PLAN
1/4" = 1'-0"



01 KEY PLAN
N.T.S.

ELECTRICAL GENERAL NOTES:

- CONTRACTOR TO PROVIDE ARC-FAULT CIRCUIT-INTERRUPTER PROTECTION AS REQUIRED BY NEC 210.12(A) FOR ALL 120-VOLT, SINGLE PHASE, 15 & 20 AMP BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN KITCHEN, FAMILY ROOM, DINING ROOMS, LIVING ROOMS, ETC.
- ALL EXTERIOR ELECTRICAL EQUIPMENT / DEVICES SHALL BE NEMA 3R.
- UNLESS OTHERWISE SPECIFIED, ALL RECEPTACLES AND DATA OUTLETS SHALL BE RECESSED-MOUNTED IN ACCORDANCE WITH NEC REQUIREMENTS AND INSTALLED FLUSH WITH FINISHED WALL SURFACE.

ELECTRICAL POWER KEYNOTES:

- RE-INSTALL WALL-MOUNTED PHONE AND FIRE EXTINGUISHER (FE) AS SHOWN. VERIFY EXACT LOCATION WITH ARCH./OWNER.
- CONTRACTOR TO PROVIDE WALL-MOUNTED RECEPTACLE AND DATA DROP FOR TELEVISION. VERIFY EXACT MOUNTING HEIGHT WITH THE ARCHITECT & LOCATION IN FIELD PRIOR TO ROUGH-IN.
- CONTRACTOR TO PROVIDE NEW USB RECEPTACLES TO BE CONNECTED TO THE EXISTING RECEPTACLE CIRCUITS IN THE AREA. VERIFY EXACT LOC. W/ ARCH./OWNER.
- CONTRACTOR TO PROVIDE NEW RECEPTACLES TO BE CONNECTED TO THE EXISTING RECEPTACLE CIRCUITS IN THE AREA.
- NEW FIRE ALARM DEVICE TO MATCH EXISTING DEVICES IN THE FACILITY AND CONNECTED TO THE EXISTING ZONE FOR THIS AREA.

POWER DEMO KEYNOTES:

- ALL EXISTING RECEPTACLES SHALL BE REMOVED AND MAINTAIN EXISTING CIRCUITRY TO BE RE-USED FOR NEW RECEPTACLES.

OWNER



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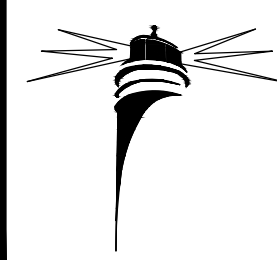
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POWER PLAN

SHEET NUMBER

E1.1

PERMIT SET.
06/10/2025



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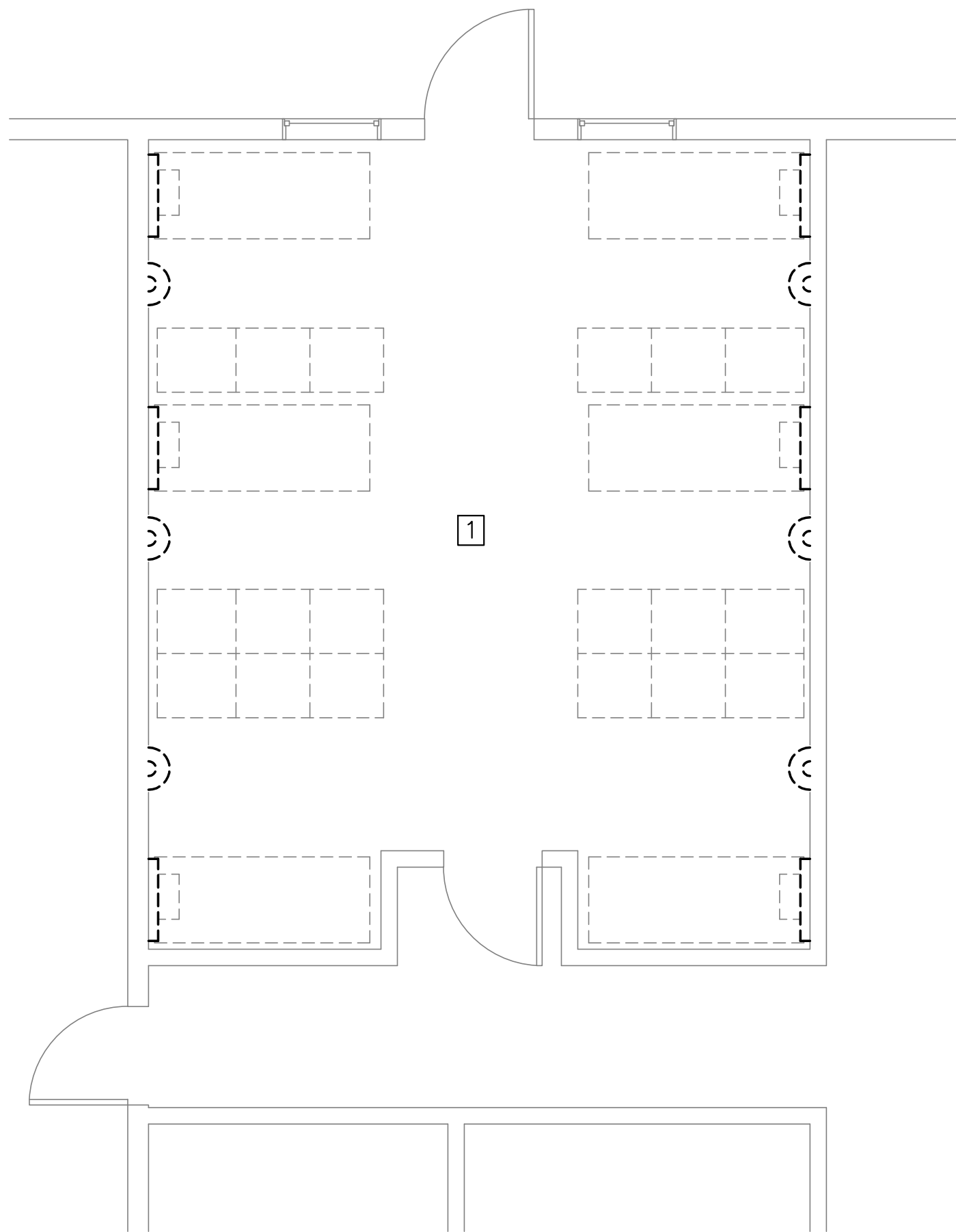
625 Casa Loma Blvd., Suite 106
Boynton Beach, FL 33435
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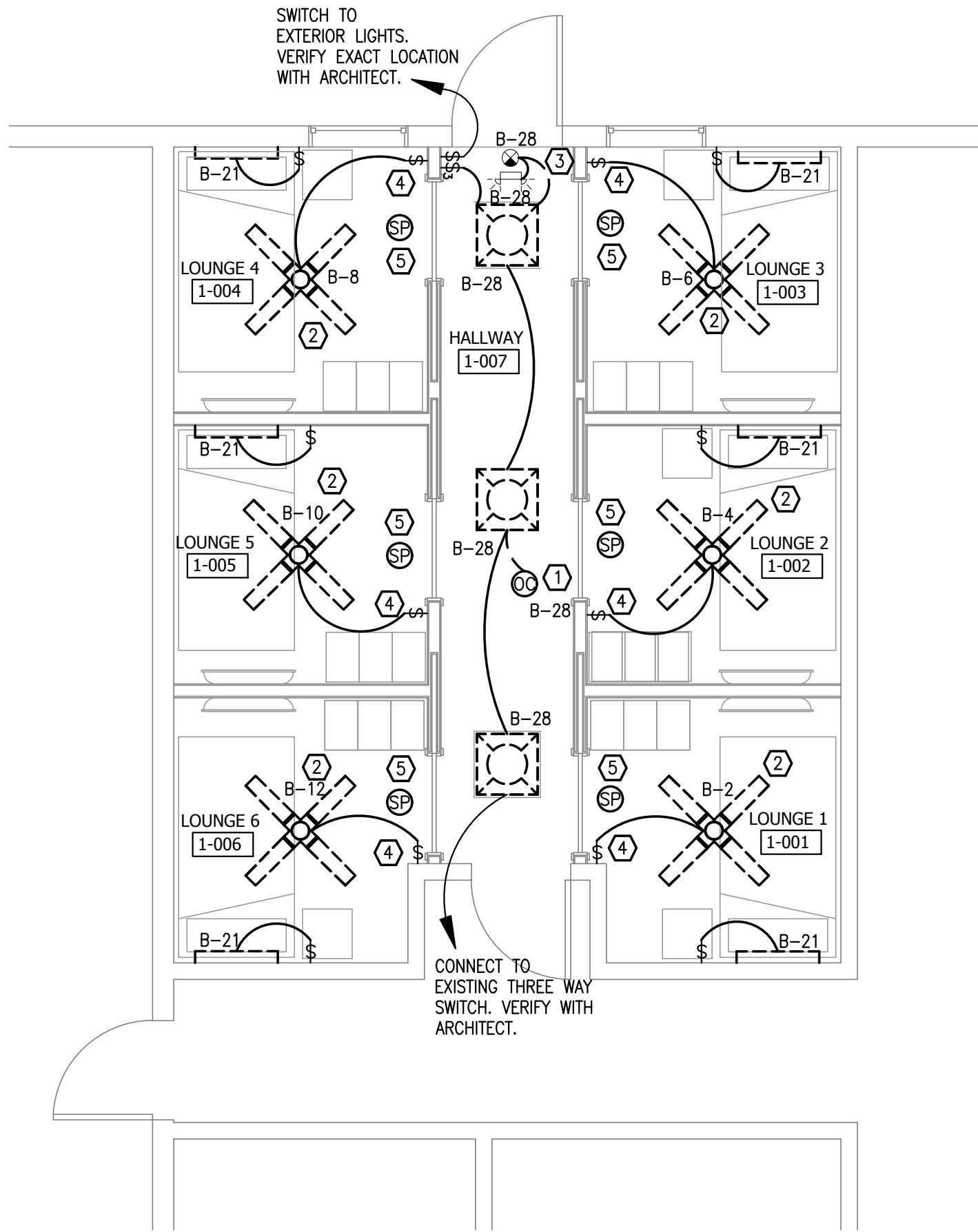
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AND SEALED BY JOEVEN M.
VALENZUELA, P.E., ON 11/21/2025.

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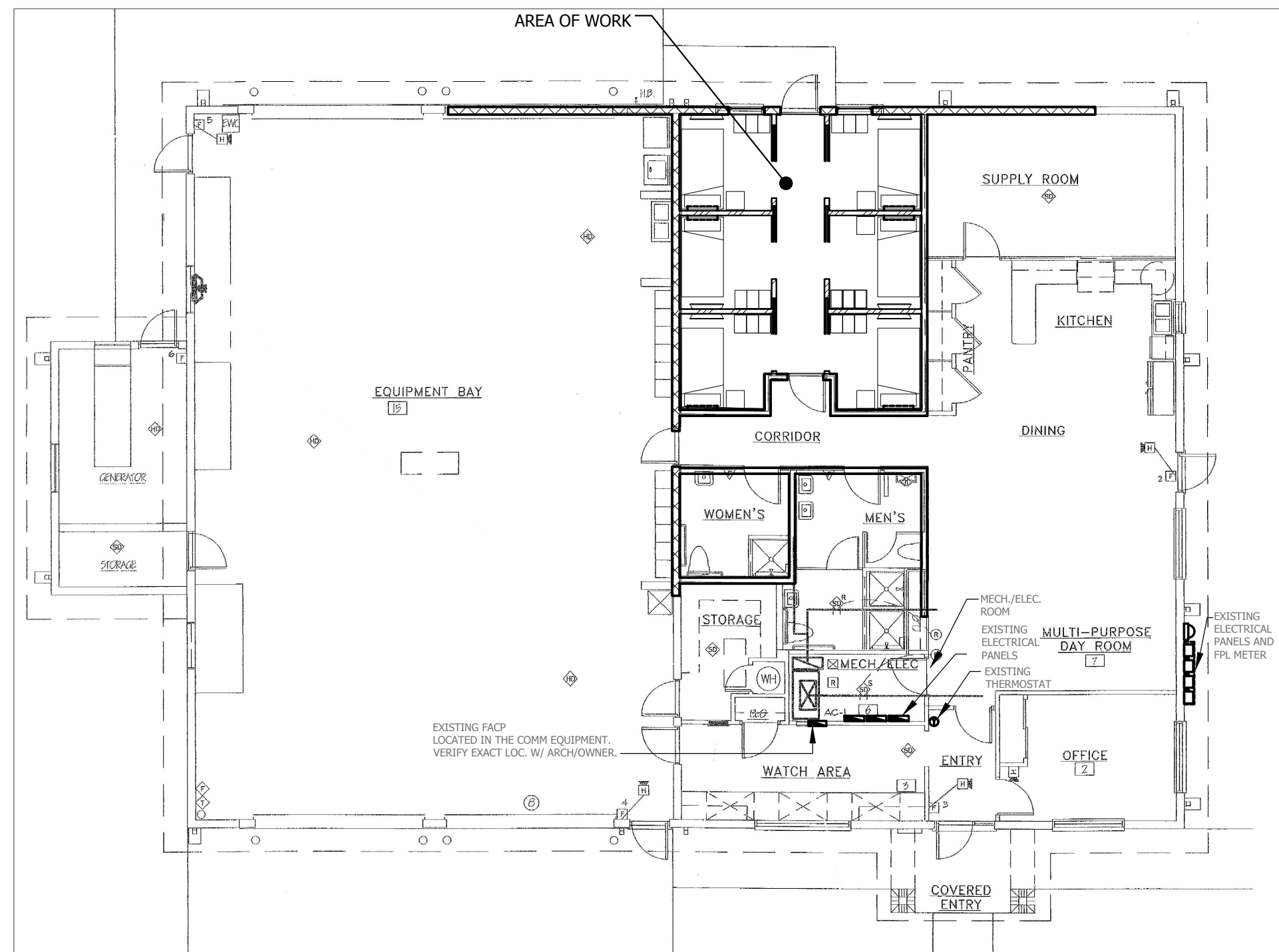
TO THE BEST OF MY KNOWLEDGE THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THE 2023 FLORIDA BUILDING CODE, ALL AMENDMENTS AND SECTION 633 OF THE FLORIDA STATUTES.



01 LIGHTING DEMO PLAN
1/4" = 1'-0"



01 LIGHTING PLAN
1/4" = 1'-0"



01 KEY PLAN
N.T.S.

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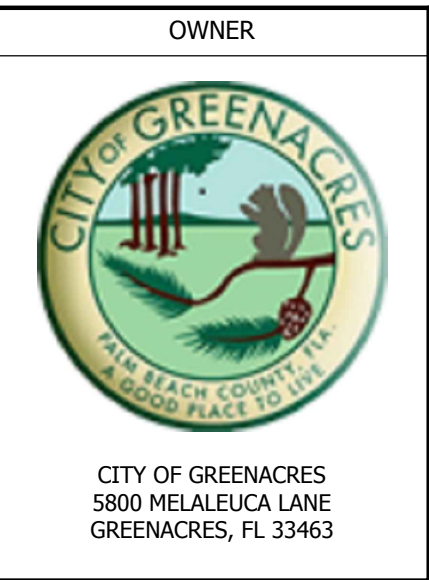
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- ELECTRICAL GENERAL NOTES:**
- CONTRACTOR TO PROVIDE ARC-FAULT CIRCUIT-INTERRUPTER PROTECTION AS REQUIRED BY NEC 210.12(A) FOR ALL 120-VOLT, SINGLE PHASE, 15 & 20 AMP BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN KITCHEN, FAMILY ROOM, DINING ROOMS, LIVING ROOMS, ETC.
 - ALL EXTERIOR ELECTRICAL EQUIPMENT / DEVICES SHALL BE NEMA 3R.
- ELECTRICAL LIGHTING KEYNOTES:**
- ELECTRICAL CONTRACTOR SHALL PROVIDE POWER PACKS PER OCCUPANCY SENSOR MANUFACTURING RECOMMENDATION AND ALL LIGHTING FIXTURES LOCATED IN THE HALLWAY SHALL BE CONTROLLED BY THE OCCUPANCY SENSOR.
 - ELECTRICAL CONTRACTOR SHALL BE AWARE THAT ALL FAN LIGHT COMBOS IN EACH ROOM SHALL BE CONNECTED TO THE EXISTING LIGHTING CIRCUIT IN THE AREA.
 - ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECT/OWNER THE PLACEMENT OF THE EXIT LIGHTS IN THE AREA.
 - COORDINATE FINAL LOCATIONS OF THE FAN-LIGHT COMBINATION CONTROLS WITH THE ARCHITECT.
 - COORDINATE WITH THE ARCHITECT TO DETERMINE FINAL LOCATIONS OF THE EMERGENCY RESPONSE SPEAKERS IN EACH ROOM.

- LIGHTING DEMO KEYNOTES:**
- ALL EXISTING SWITCHES, FIXTURES, AND OUTLETS TO BE REMOVED.



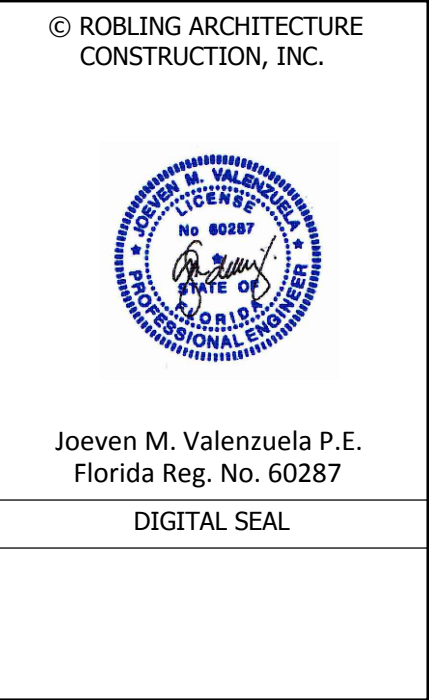
PROJECT TITLE	
FIRE RESCUE STATION 95 LOUNGE RENOVATION	
SUBMITTAL HISTORY	
A	06/11/25 CONSTRUCTION DOCS

THE DRAWINGS AND SPECIFICATIONS INCLUDED OR REFERENCED HEREIN SHALL BE USED AS A COMPLETE SET AND SHALL NOT BE SEPARATED INTO INDIVIDUAL SHEETS OR BY DISCIPLINE.

INFORMATION CONTAINED ON ONE SHEET MAY SPECIFICALLY APPLY TO INFORMATION OR CONDITIONS ILLUSTRATED ON OTHER SHEETS.

IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT SUCH ITEMS ARE COORDINATED AND INCLUDED IN ANY PRICING INFORMATION.

FIELD VERIFY AND NOTIFY THE ARCHITECT OF ANY DEVIATIONS FROM THE PLANS AND / OR SPECS PRIOR TO CONSTRUCTION



PROJECT NUMBER	
585-2024-01/BCE 250061	
SHEET TITLE	
LIGHTING PLAN	
SHEET NUMBER	
E2.1	

A.I.C. RATING	EXISTING	FED FROM	SERVICE DISCONNECT SWITCH A	MAINS	225A MLO
TYPE	EXISTING	PANEL	"A" (EXISTING)	BUS RATING	225A
MOUNTING	EXISTING			VOLTAGE	120/208V, 3Ø, 4W

DESCRIPTION	WIRE	GRD.	COND.	CB	CKT.	KILOWATTS			KILOWATTS			CB	COND.	GRD.	WIRE	DESCRIPTION	
						A	B	C	A	B	C						
RECEPTACLES/KITCHEN GFI	E	E	E	20	1	0.4			0.4			2	20	E	E	E	SIGN MARQUE
RECEPTS - LOUNGE 6	(N)	2#12	#12	3/4"	20	3		0.5	0.5			4	20	3/4"	#12	2#12	RECEPTS - LOUNGE 3 (N)
RECEPTS - LOUNGE 5	(N)	2#12	#12	3/4"	20	5				1.0		6	20	E	E	E	SITE LIGHTING CONTROL
RECEPTS - LOUNGE 4	(N)	2#12	#12	3/4"	20	7	0.5					8	20	E	E	E	SODA MACHINE
RECEPTACLES BATH GFI	E	E	E	20	9		0.4		2.4			10	30	E	E	E	CLOTHES DRYER
RECEPTACLES BATH GFI	E	E	E	20	11			0.4		2.4		12					
RECEPTACLES EXTERIOR GFI	E	E	E	20	13	0.4			1.3			14	20	E	E	E	CLOTHES WASHER
RECEPTACLES EXTERIOR GFI	E	E	E	20	15		0.4		0.8			16	20	E	E	E	SITE LIGHTING
RECEPTACLES APPARATUS GFI	E	E	E	20	17			0.8		0.8		18					
RECEPTACLES APPARATUS GFI	E	E	E	20	19	0.8			0.5			20	20	3/4"	#12	2#12	RECEPTS - LOUNGE 2 (N)
SPARE	E	E	E	20	21		-		0.4			22	20	E	E	E	SIGN LIGHT
RECEPTACLES	E	E	E	20	23			0.4		1.0		24	20	E	E	E	RECEPTACLES
RECEPTACLES	E	E	E	20	25	0.4			1.0			26	20	E	E	E	RECEPTACLES
SPARE	E	E	E	20	27		-			1.0		28	20	E	E	E	RECEPTACLES
RECEPTACLES	E	E	E	20	29			0.4		1.0		30	20	E	E	E	RECEPTACLES
GENERATOR RECEPTACLES	E	E	E	20	31	0.4			0.4			32	20	E	E	E	FLAG POLE LIGHT
SITE LIGHTING	E	E	E	20	33		0.8			0.5		34	20	E	E	E	BUNK ROOM RECEPTACLES
					35			0.8			-	36	20	E	E	E	SPARE
					37	-				1.2		38	20	E	E	E	A/C UNIT LOCKER ROOM
					39	-				1.2		40					
					41	-					-	42	20	E	E	E	SPARE
SUBTOTAL						2.9	2.1	3.3	5.8	6.8	6.2						
TOTAL LOAD / PHASE							8.7	8.9	9.5								

LEGEND:

E--DENOTES WIRES & CONDUITS ARE EXISTING TO REMAIN. CONTRACTOR TO EXTEND WIRING & CONDUITS TO NEW PANEL LOCATION. VERIFY EXACT LOCATIONS & ROUTINGS IN FIELD.

(N) - DENOTES NEW

NOTES:

1. ALL BREAKERS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

2. LOADS SHOWN ARE BASED ON THE EXISTING BREAKER SIZES.

3. CONTRACTOR TO EXTEND ALL EXISTING WIRES AND CONDUITS TO NEW EQUIPMENT'S LOCATION, AS REQUIRED.

TOTAL CONNECTED LOAD = 27.1 KW

TOTAL CONNECTED LOAD = 75.3 AMP

A.I.C. RATING	EXISTING	FED FROM	SERVICE DISCONNECT SWITCH B	MAINS	225A MLO
TYPE	EXISTING	PANEL	"B" (EXISTING)	BUS RATING	225A
MOUNTING	EXISTING			VOLTAGE	120/208V, 3ø, 4W

DESCRIPTION	WIRE	GRD.	COND.	CB	CKT.	KILOWATTS			KILOWATTS			CB	COND.	GRD.	WIRE	DESCRIPTION			
						A	B	C	A	B	C						CKT.		
SPARE	E	E	E	20	1	-			0.6			2	20	E	E	E	PADDLE FAN		
SPARE	E	E	E	20	3		-		0.6			4	20	E	E	E	PADDLE FAN		
SPARE	E	E	E	20	5			-		0.6		6	20	E	E	E	PADDLE FAN		
MEN'S LIGHTING	E	E	E	20	7	0.6			0.6			8	20	E	E	E	PADDLE FAN		
WOMEN'S LIGHTING	E	E	E	20	9		0.4		0.6			10	20	E	E	E	PADDLE FAN		
LIGHTING	E	E	E	20	11			0.9		0.6		12	20	E	E	E	PADDLE FAN		
LIGHTING	E	E	E	20	13	0.6			0.6			14	20	E	E	E	PADDLE FAN		
LIGHTING	E	E	E	20	15		0.5		0.6			16	20	E	E	E	PADDLE FAN		
BEDROOM LIGHTING	E	E	E	20	17			0.8		-		18	20	E	E	E	SPARE		
SPARE	E	E	E	20	19	-			2.4			20	60	E	E	E	AIR BREATHER SYSTEM		
LIGHTING	E	E	E	20	21		0.4		2.4			22							
EXTERIOR LIGHTS	E	E	E	20	23			0.6		2.4	2.4	24							
ELECTRIC WATER COOLER	E	E	E	20	25	1.0			1.0			26	20	E	E	E	SMOKE/CARBON DETECTORS		
SPARE	E	E	E	20	27	-			0.3			28	20	E	E	E	LIGHTS -- HALLWAY		
SPARE	E	E	E	20	29	-			-	-		30	20	E	E	E	SPARE		
SPARE	E	E	E	20	31	-			-			32	20	E	E	E	SPARE		
WATER HEATER	E	E	E	40	33		2.9		-			34	20	E	E	E	SPARE		
					35			2.9		0.6		36	20	E	E	E	IRRIGATION PUMP CONTROLS		
SURGE PROTECTION	E	E	E	30	37	-			2.4			38	60	E	E	E	IRRIGATION PUMP		
					39	-			2.4			40							
					41	-			-		2.4	42							
SUBTOTAL						2.2	4.2	5.2		7.6	6.9	6.6							
TOTAL LOAD / PHASE							9.8	11.1	11.8										

LEGEND:

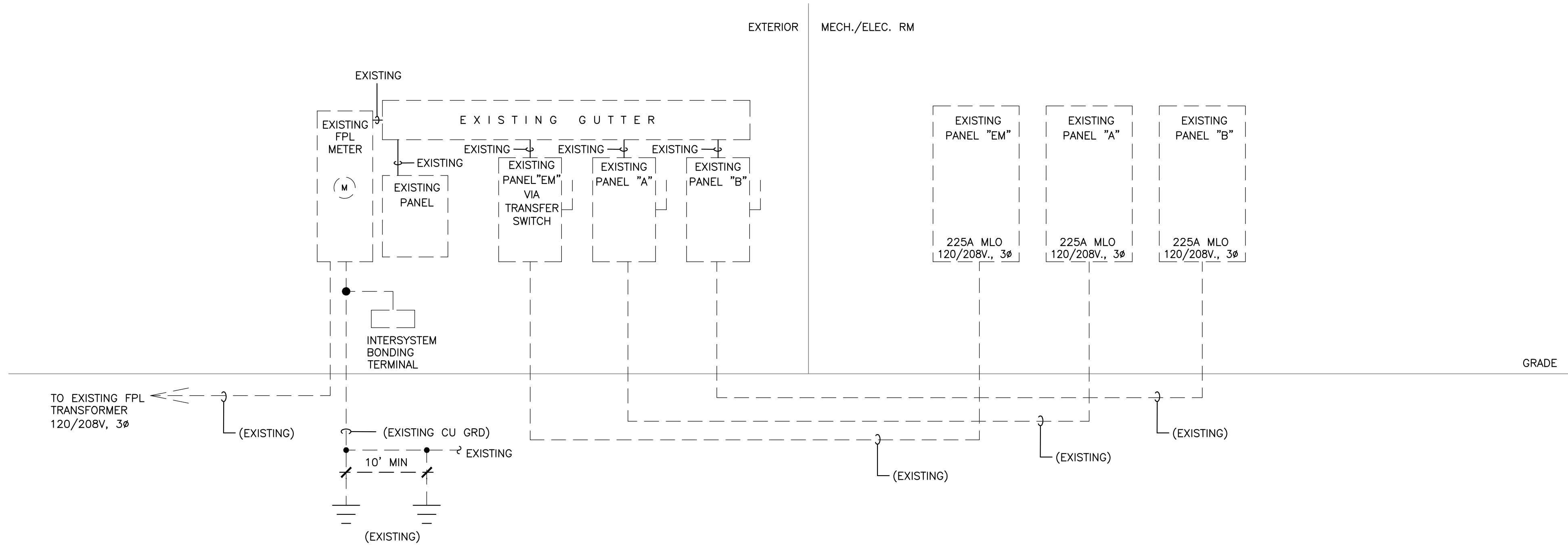
E--DENOTES WIRES & CONDUITS ARE EXISTING
TO REMAIN. CONTRACTOR TO EXTEND WIRING
& CONDUITS TO NEW PANEL LOCATION.
VERIFY EXACT LOCATIONS & ROUTINGS IN
FIELD.

(N) - DENOTES NEW

NOTES: 1. ALL BREAKERS ARE EXISTING TO REMAIN
UNLESS OTHERWISE NOTED.
2. LOADS SHOWN ARE BASED ON THE EXISTING
BREAKER SIZES.
3. CONTRACTOR TO EXTEND ALL EXISTING
WIRES AND CONDUITS TO NEW EQUIPMENT'S
LOCATION, AS REQUIRED.

TOTAL CONNECTED LOAD = 32.7 KW

TOTAL CONNECTED LOAD = 90.9 AMP



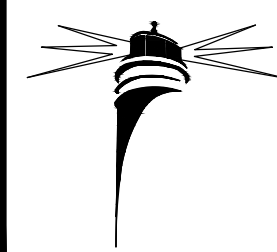
LEGEND

----- DENOTES EXISTING

NOTES:

1. NO CHANGES AND REVISIONS TO BE DONE WITH THE EXISTING RISER DIAGRAM.

PERMIT SET.
06/10/2025



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