

ABBREVIATIONS * ALL MAY NOT APPLY												ELECTRICAL SHEET INDEX			
												SHEET NUMBER		SHEET NAME	
A	AMPS	DEMO	DEMOLISH	HP	HORSEPOWER	N1	NEMA 1	RCPT/REC	RECEPTACLE	UC	UNDER COUNTER	E001	ELECTRICAL NOTES & LEGENDS		
AC	ABOVE COUNTER	DIV	DIVISION	HVAC	HEATING, VENTILATION & AIR-CONDITIONING	N3R	NEMA 3R	RCW	RACEWAY	URCW	UNDERFLOOR RACEWAY	E002	ELECTRICAL SYMBOLS		
AF	AMP FRAME					N/A,NA	NOT APPLICABLE	REQD	REQUIRED	UG/URD	UNDERGROUND	E501	ELECTRICAL DETAILS		
AFF	ABOVE FINISHED FLOOR	EC	ELECTRICAL CONTRACTOR	IMC	INTERMEDIATE METAL CONDUIT	NC	NORMALLY CLOSED	RM	ROOM	UL	UNDERWRITERS' LABORATORIES	E601	ELECTRICAL SCHEDULES		
AFG	ABOVE FINISHED GRADE	EGC	EQUIPMENT GROUNDING CONDUCTOR	JB	JUNCTION BOX	NEC	NORMALLY OPEN	RGS	RIGID GALVANIZED STEEL CONDUIT	UNO	UNLESS NOTED OTHERWISE	E602	ELECTRICAL SCHEDULES		
AHU	AIR HANDLING UNIT	ELEC	ELECTRICAL			NESC	NATIONAL ELECTRICAL CODE	RNC	RIGID NON-METALLIC CONDUIT	UPS	UNINTERRUPTIBLE POWER SUPPLY	E701	ELECTRICAL ONE-LINE		
AL	ALUMINUM	EF	EXHAUST FAN	k	KILO	NEU	NEUTRAL	RVSS	REDUCED VOLTAGE SOLID STATE			E702	ELECTRICAL GROUNDING		
ARCH	ARCHITECT OR ARCHITECTURAL	EX	EXISTING TO REMAIN	KAIC	KILO-AMPERE INTERRUPTING CAPABILITY	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION			V	VOLT				
AT	AMP TRIP	EXT	EXTERIOR	KCMIL	THOUSAND CIRCULAR MILS	NTS	NOT TO SCALE	SAD	SURGE ARRESTER DEVICE	VA	VOLT-AMPERES				
ATS	AUTOMATIC TRANSFER SWITCH	EWC	ELECTRIC WATER COOLER					SCA	SHORT CIRCUIT AMPS	VAR	VOLT-AMPERES REACTIVE				
ATU	AIR TERMINAL UNIT	EWH	ELECTRIC WATER HEATER	LCP	LIGHTING CONTROL PANEL	OC	ON CENTER	SEC	SECONDARY	VAV	VARIABLE AIR VOLUME UNIT				
AWG	AMERICAN WIRE GAUGE	EMT	ELECTRICAL METALLIC TUBING	LTG	LIGHTING	OC	ON CENTER	SF	SUPPLY FAN	VFD	VARIABLE FREQUENCY DRIVE				
		EQUIP	EQUIPMENT	LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT	OC	ON CENTER	SPD	SURGE PROTECTIVE DEVICE						
				LV	LOW VOLTAGE	OH	OVERHEAD	SPEC	SPECIFICATION	WAO	WORK AREA OUTLET				
BAS	BUILDING AUTOMATION SYSTEM					OFOI	OWNER FURNISHED OWNER INSTALLED	SS	STAINLESS STEEL	WP	WEATHERPROOF				
BKR	CIRCUIT BREAKER	FMC	FLEXIBLE METAL CONDUIT	MAX	MAXIMUM	PEM	POWER ENERGY MONITOR	SWBD	SWITCHBOARD	WSR	WITHSTAND RATING				
BLDG	BUILDING	FACP	FIRE ALARM SYSTEM CONTROL PANEL	MCA	MECHANICAL CONTRACTOR	PF	POWER FACTOR	SWGR	SWITCHGEAR	WW	WIREWAY				
BOD	BASIS OF DESIGN	FBC	FLORIDA BUILDING CODE	MCM	MINIMUM CIRCUIT AMPACITY	PNL	PANELBOARD								
		FU	FUSE	MCC	MOTOR CONTROL CENTER	PQM	POWER QUALITY METER	TBB	TELECOMMUNICATIONS BONDING BACKBONE	XFMR	TRANSFORMER				
C	CONDUIT	FIA,FA	FIRE ALARM	MCM	THOUSAND CIRCULAR MILS	PRI	PRIMARY	TCC	TIME CURRENT CURVE	XP	EXPLOSION PROOF				
C/B,CB	CIRCUIT BREAKER	FLA	FULL LOAD AMPS	MH	MANHOLE	POT	POTENTIAL TRANSFORMER	TR	TELECOMMUNICATIONS ROOM						
CLG	CEILING	FR	FRAME RATING	MIN	MINIMUM	PT	POTENTIAL TRANSFORMER	TGB	TELECOMMUNICATIONS GROUNDING BUSBAR	PH	PHASE				
CKT	CIRCUIT			MISC	MISCELLANEOUS	PWR	POWER	TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR	72°	DEGREES				
CT	CURRENT TRANSFORMER	GFI	GROUND FAULT INTERRUPTER	MLO	MAIN LUGS ONLY			TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION	D	DELTA				
CU	COPPER	GND	GENERAL CONTRACTOR	MTS	MANUAL TRANSFER SWITCH			TX	TRANSFORMER	W	OHMS				
		GEC	GROUNDING ELECTRODE CONDUCTOR	MV	MEDIUM VOLTAGE			TYP	TYPICAL	Y	WYE				



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**ARCHITECTURE
INTERIOR DESIGN
BUILDING ENVELOPE**

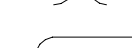
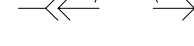
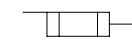
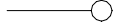
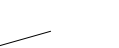
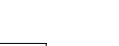
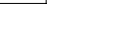
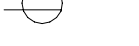
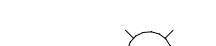
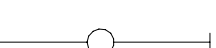
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CONSTRUCTION DOCUMENTS	
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ELECTRICAL NOTES & LEGENDS	
E001	

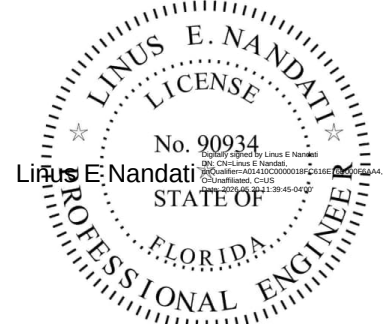
* ALL MAY NOT APPLY

ONE-LINE DIAGRAM	FLOOR PLAN - POWER	FLOOR PLAN - LIGHTING	FLOOR PLAN - FIRE ALARM	FLOOR PLAN - TELECOM
AM AMMETER # CABLE AND CONDUIT TAG SEE SCHEDULE  CONTACTOR  CONTROL OR POTENTIAL TRANSFORMER  CURRENT TRANSFORMER  DELTA CONNECTION 30A/20A DISCONNECT SWITCH, FUSED (SWITCH/FUSE RATING) 30A DISCONNECT SWITCH, UNFUSED (SWITCH RATING)  DRAWOUT AIR CIRCUIT BREAKER  FUSE WITH RATING  FUSED DRAWOUT POTENTIAL TRANSFORMER  FUSIBLE SWITCH  GROUND  INCOMING LINE  KILOWATT HOUR METER  MOLDED CASE CIRCUIT BREAKER XX PANELBOARD PB PULL BOX R RELAY  RELAY CONTACT NORMALLY CLOSED  RELAY CONTACT NORMALLY OPEN ST SHUNT TRIP  STARTER OR MOTOR CONTROLLER  STARTER, COMBINATION WITH DISCONNECT SWITCH  SURGE AND LIGHTNING ARRESTER  SWITCH AND FUSE UNIT  TRANSFORMER TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR  UTILITY METER  VOLTMETER  WYE CONNECTION	 CEILING MOUNTED RECEPTACLE  CONDUIT STUBBED DOWN  CONDUIT STUBBED UP  DISCONNECT SWITCH  FLEXIBLE CONDUIT  FLOOR RECEPTACLE, DUPLEX  GROUND E HARDWIRED POWER CONNECTION  HOMERUN TO PANELBOARDS H HUMIDISTAT J JUNCTION BOX WITH DISCONNECT SWITCH AND FLEXIBLE CONDUIT CONNECTION  LADDER CABLE TRAY  MOTOR  PANELBOARD JB POWER JUNCTION BOX PB PULL BOX  RECEPTACLE, DUPLEX GFI RECEPTACLE, DUPLEX WITH GROUND FAULT INTERRUPTER  RECEPTACLE, QUADRAPLEX  SPECIAL RECEPTACLE - SEE FLOOR PLAN OR MANUFACTURER SPEC SHEETS FOR DETAILS T THERMOSTAT TC TIME CLOCK T TRANSFORMER, PLAN	 EMERGENCY BATTERY BACK-UP EGRESS LIGHT  EXIT SIGN - DOUBLE FACED CEILING OR WALL MOUNTED. ARROW INDICATES DIRECTION  EXIT SIGN - SINGLE FACED CEILING OR WALL MOUNTED. ARROW INDICATES DIRECTION  LIGHT FIXTURE, EMERGENCY  LIGHT FIXTURE, 1'x4'  LIGHT FIXTURE, 2'x2'  LIGHT FIXTURE, 2'x4'  LIGHT FIXTURE RECESSED ROUND CEILING MOUNTED DOWNLIGHT  LIGHT FIXTURE RECESSED SQUARE CEILING MOUNTED DOWNLIGHT  LIGHT FIXTURE, STRIP/INDUSTRIAL LED; LETTER INDICATES TYPE.  LIGHT TRACK WITH HEADS AS SHOWN  LIGHTING, UNDERCABINET LIGHT/COVE LIGHT S2 SWITCH BLANK = SINGLE POLE 3 = THREE-WAY 4 = FOUR-WAY K = KEY OPERATED DM= DIMMER P = WITH PILOT LIGHT LV= LOW VOLTAGE T = TIMER OPERATED WP=WEATHER PROOF X = EXPLOSION PROOF RC= REMOTE CONTROL OS= OCCUPANCY SENSOR 3/DM = THREE-WAY / DIMMER OS/DM = OCCUPANCY SENSOR / DIMMER PC SWITCH, EXTERIOR PHOTO CELL FOR CONTROL OF EXTERIOR LIGHTING OS SWITCH, OCCUPANCY SENSOR REFER TO SHEET NOTES FOR TYPE	P ALARM, FIRE, MANUAL PULL STATION  ALARM, HORN/STROBE S ALARM, SPEAKER/STROBE  ALARM, STROBE SD SMOKE DETECTOR DSD DUCT SMOKE DETECTOR HD HEAT DETECTOR FACP FIRE ALARM CONTROL PANEL FR FIRE ALARM SHUT DOWN RELAY	 3-GANG COMPARTMENT BOX IN FLOOR FOR TELEPHONE, DATA & RECEPTACLE. ACP ACCESS CONTROL PANEL CCP CAMERA CONTROL PANEL CR CARD READER CR/K CARD READER WITH KEYPAD  COAXIAL OUTLET CB CODE BULE LIGHT  HDMI OUTLET KP KEYPAD N NURSE CALL DOME LIGHT-CEILING MOUNTED. N NURSE CALL DOME LIGHT-WALL MOUNTED OVER DOOR UNLESS OTHERWISE NOTED. NCD NURSE CALL DUTY STATION-MOUNTED OVER COUNTER UNLESS OTHERWISE NOTED. N NURSE CALL SWITCH A SECURITY / DURESS-ALARM BUTTON C SECURITY CAMERA  TELECOM OUTLET  TELECOM OUTLET - CEILING MOUNTED  TELECOM OUTLET - FLOOR MOUNTED TV TELEVISION OUTLET WAP WIRELESS ACCESS POINT

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FWC STORAGE BUILDING

FWC-02329180

DEPARTMENT OF MANAGEMENT SERVICES
LAKE CITY, FLORIDA

CONSTRUCTION DOCUMENTS

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ELECTRICAL SYMBOLS

E002

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ELECTRICAL FLOOR PLANS

E101

POWER GENERAL NOTES

1. BOLD OBJECTS ARE NEW. HALFTONED/GRAY OBJECTS ARE EXISTING TO REMAIN AND SHOWN FOR REFERENCE ONLY.
2. CONTRACTOR SHALL VERIFY MEANS OF DISCONNECT FOR ALL EQUIPMENT PRIOR TO PURCHASE. REFER TO EQUIPMENT SCHEDULE FOR DETAILS.
3. PROVIDE INDICATED RECEPTACLE FOR ALL INTERIOR RECEPTACLES.
4. PROVIDE INDICATED RECEPTACLE WITH AN IN-USE WATER PROOF COVER FOR ALL EXTERIOR AND PARKING BAY RECEPTACLES.



POWER KEYED NOTES

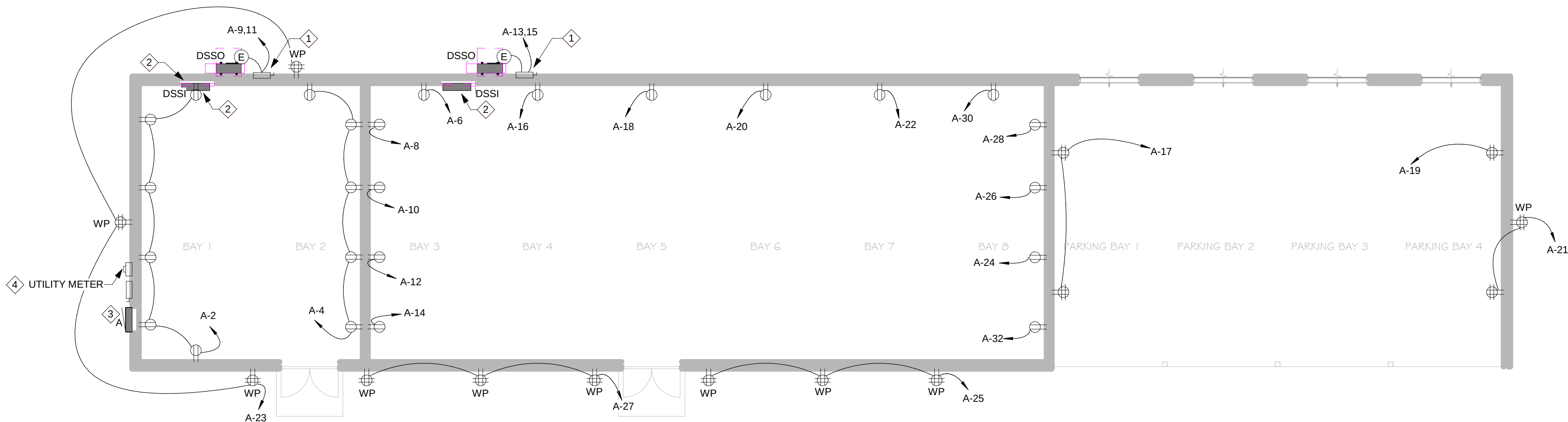
- | | |
|---|---|
| 1 | MINI SPLIT UNIT: PROVIDE 30A/2P N.F. NEMA-4X SAFETY SWITCH, WITH 1/2" C-2 #12, #12 GND, TO PANEL. PROVIDE POWER/CONTROL WIRING PER MANUFACTURER'S REQUIREMENTS. |
| 2 | MINI SPLIT UNIT: PROVIDE POWER/CONTROL WIRING FROM OUTDOOR MINI SPLIT UNIT. |
| 3 | ELECTRICAL PANEL MOUNTED AT 48" ABOVE FINISHED GRADE TO UNDERSIDE OF BOX. |
| 4 | CONTRACTOR TO COORDINATE OVERHEAD/UNDERGROUND SERVICE WITH UTILITY. REFER TO ARCHITECTURAL/CIVIL SITE PLANS FOR DETAILS. |

LIGHTING GENERAL NOTES

1. BOLD OBJECTS ARE NEW. HALFTONED/GRAY OBJECTS ARE EXISTING TO REMAIN AND SHOWN FOR REFERENCE ONLY.
2. CONTRACTOR SHALL VERIFY MEANS OF DISCONNECT FOR ALL EQUIPMENT PRIOR TO PURCHASE. REFER TO EQUIPMENT SCHEDULE ON SHEET E6.1 FOR DETAILS.

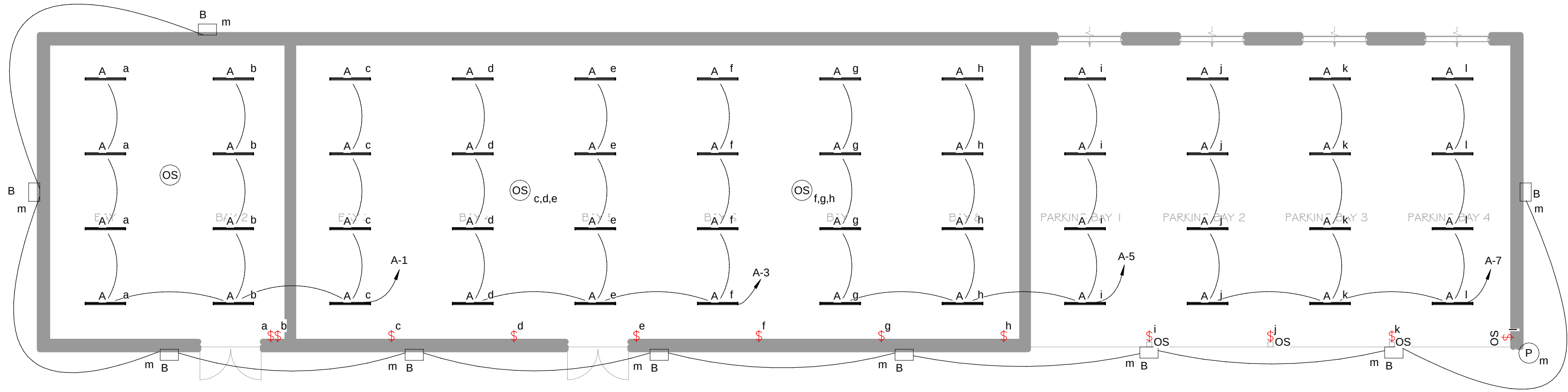


LIGHTING KEYED NOTES



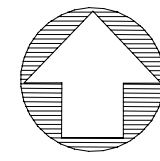
1 FIRST FLOOR PLAN - POWER

Scale: 1/8" = 1'-0"

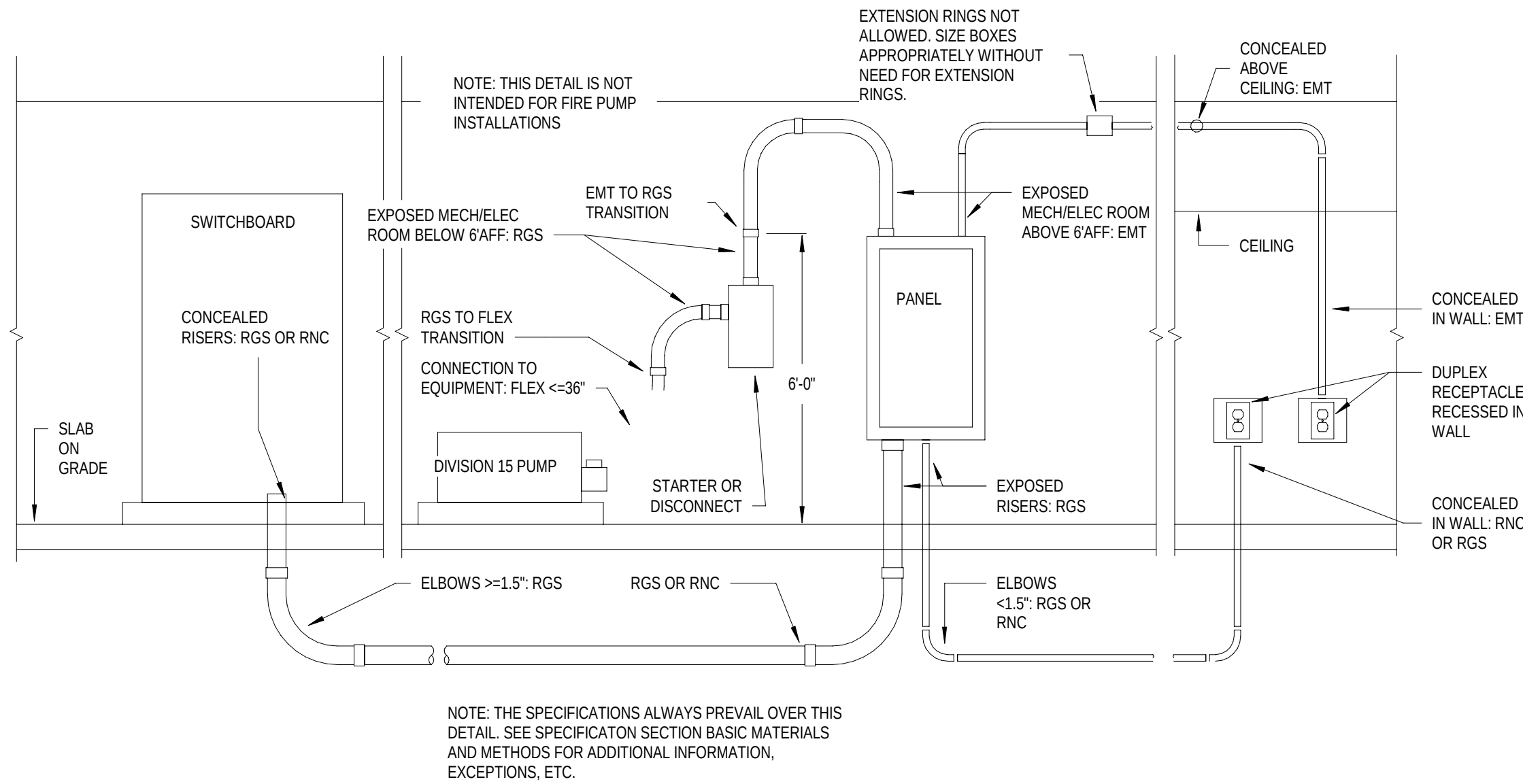


2 FIRST FLOOR FLOOR PLAN - LIGHTING

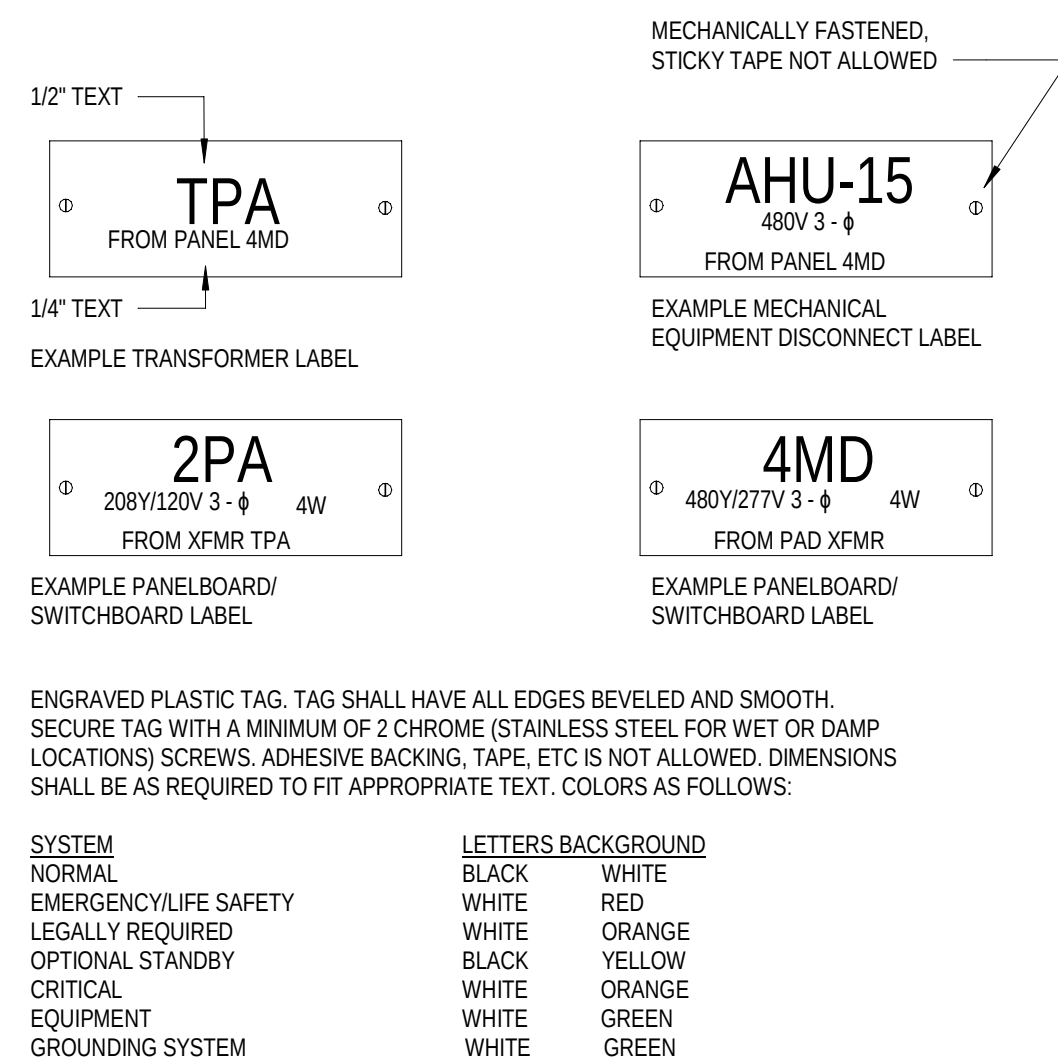
Scale: 1/8" = 1'-0"



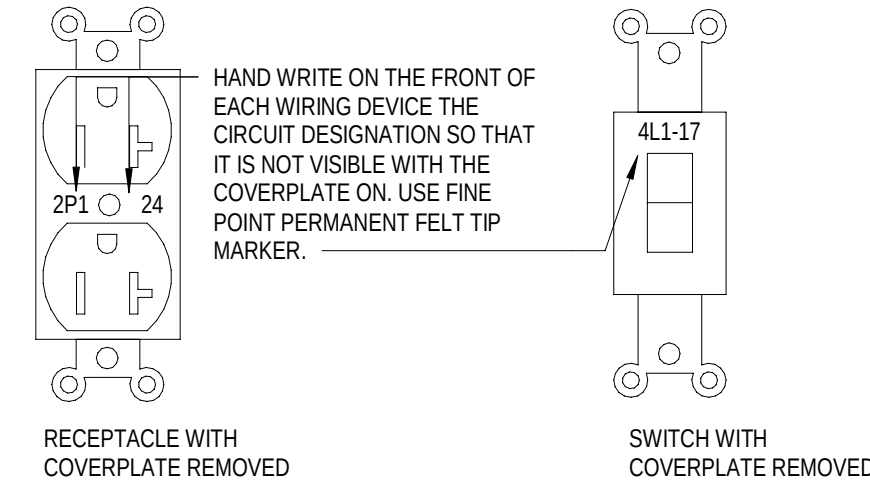
NORTH



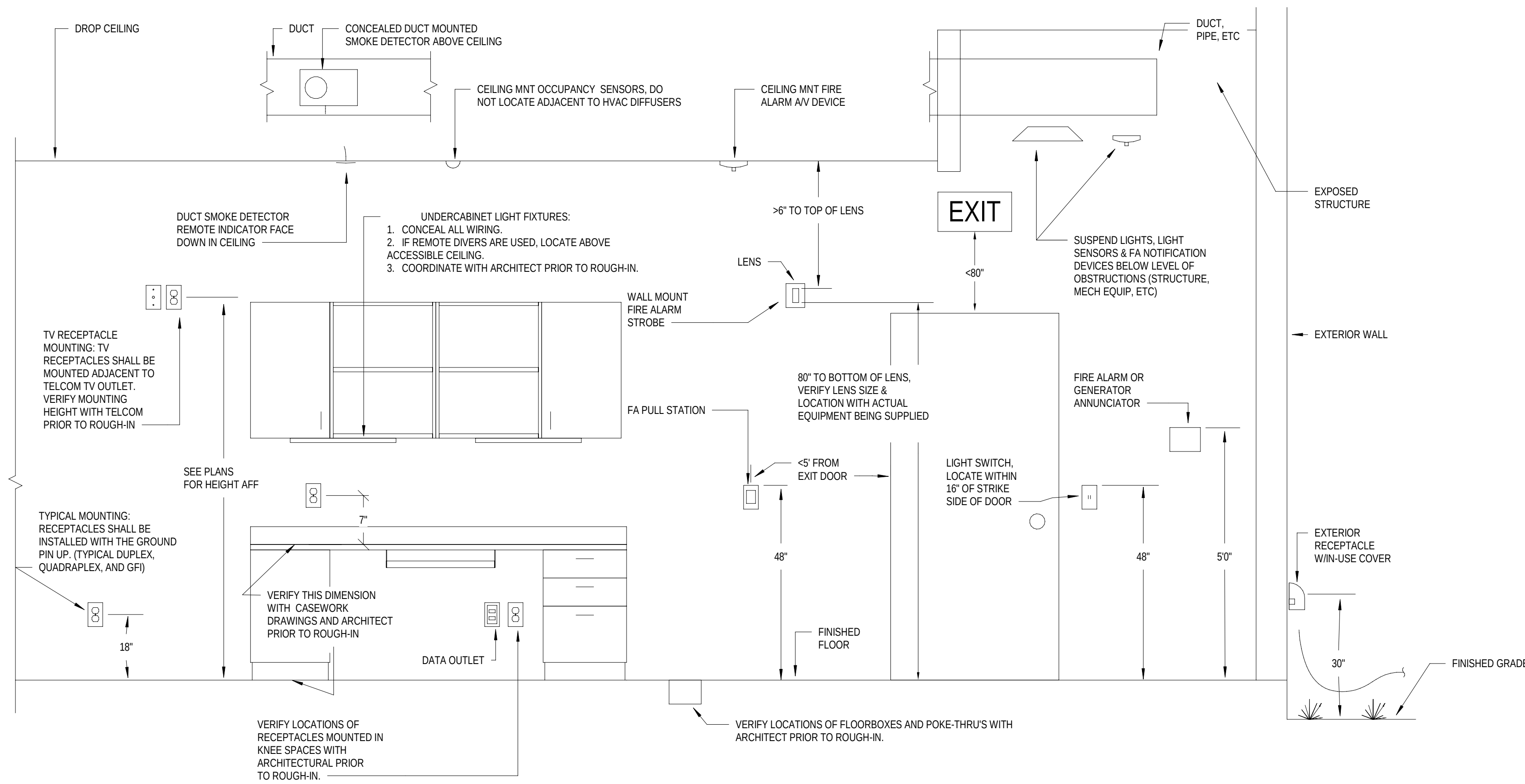
1 POWER & DISTRIBUTION RACEWAY APPLICATION DETAIL
E501 No Scale



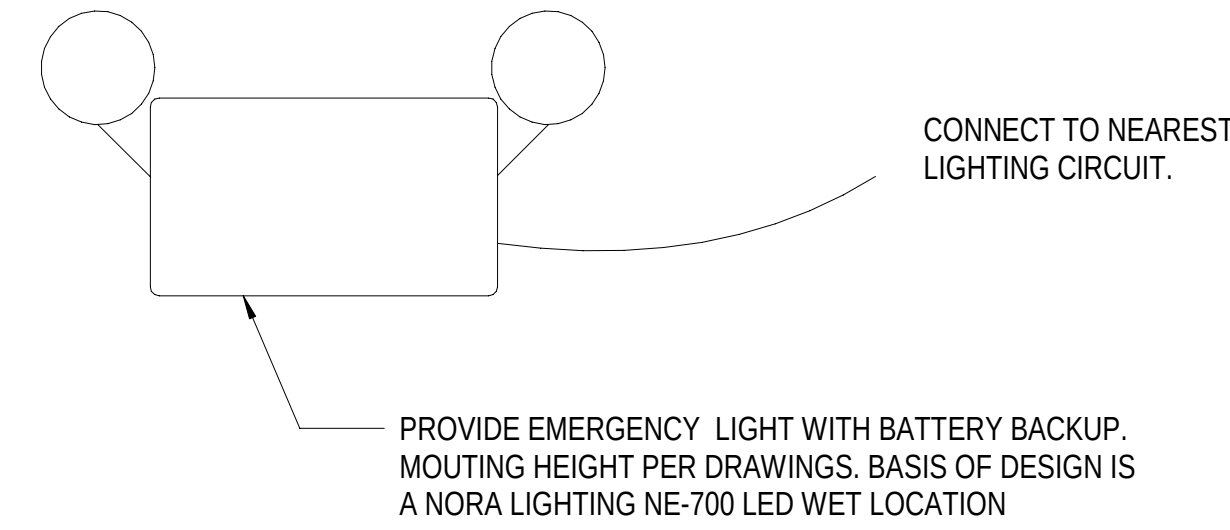
2 TYPICAL EQUIPMENT LABELING DETAIL
E501 No Scale



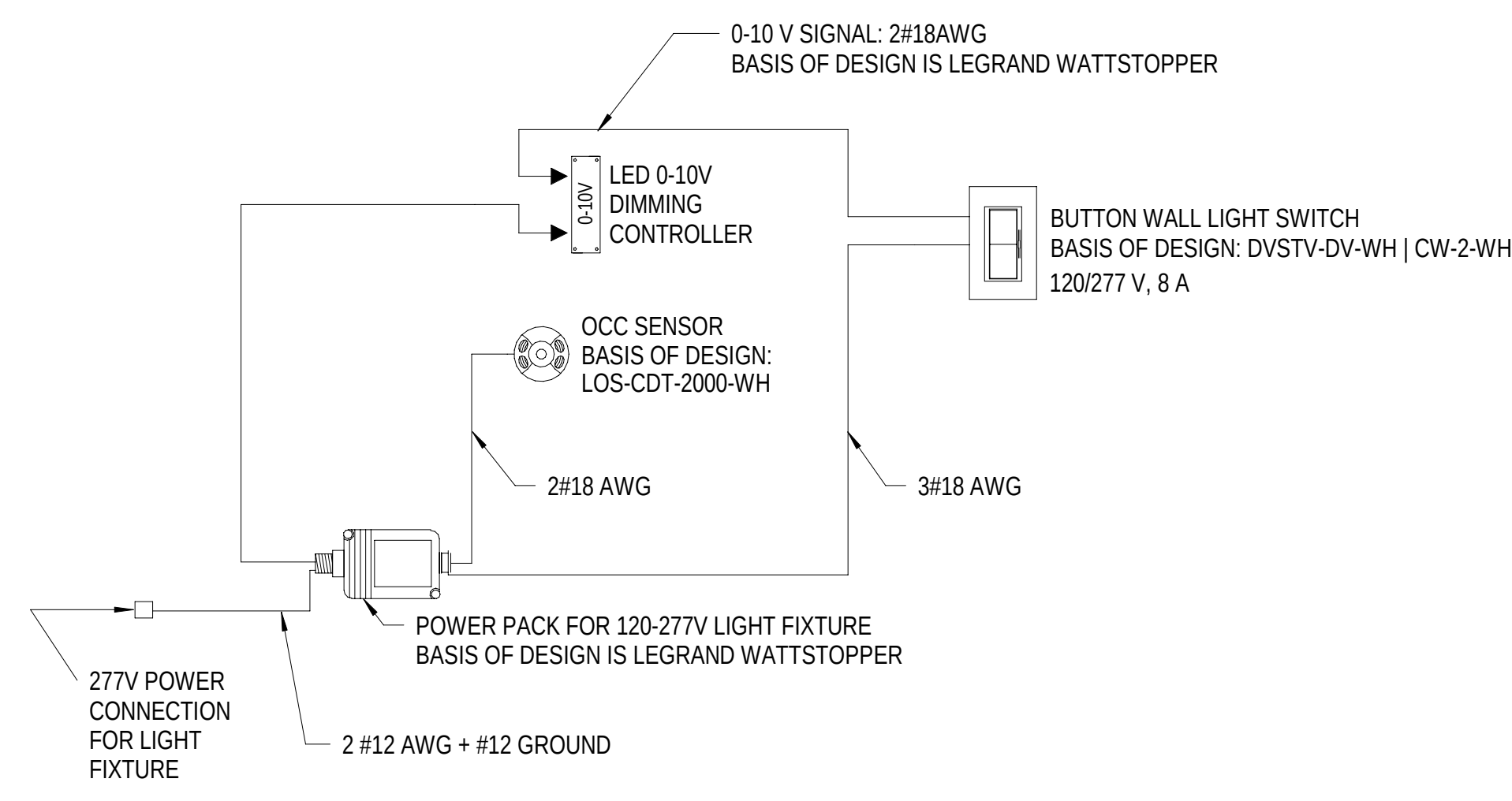
3 WIRING DEVICE LABEL DETAIL
E501 No Scale



4 TYPICAL MOUNTING DEVICE DETAIL
E501 No Scale

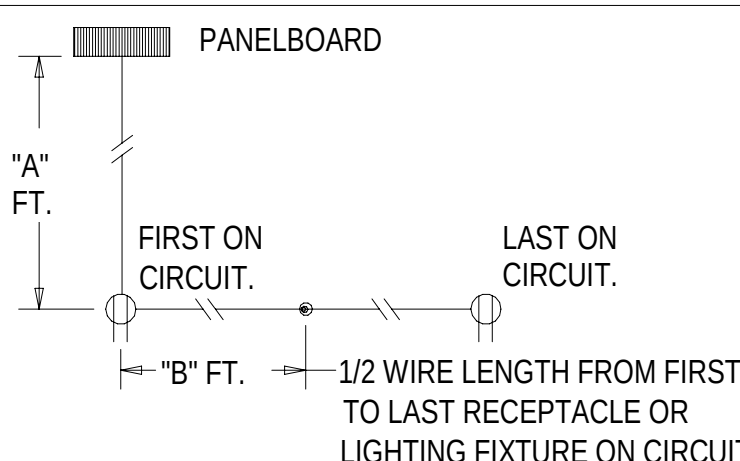
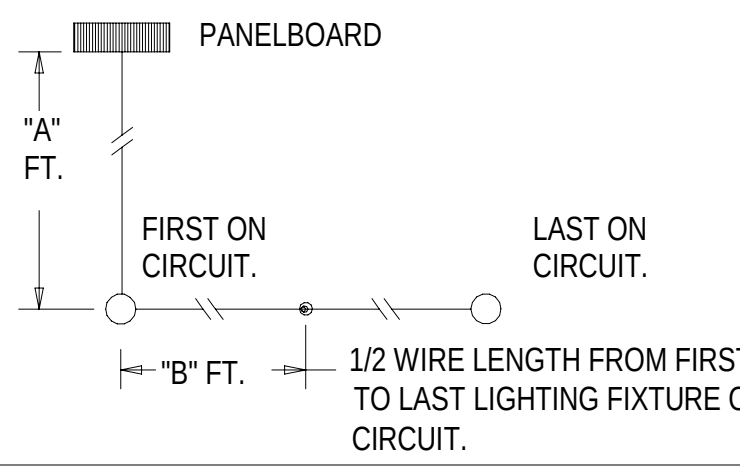


5 EMERGENCY BATTERY LIGHT WALL MOUNTED
E501 No Scale



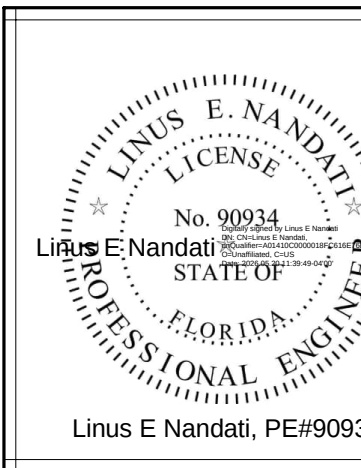
6 TYPICAL CEILING OCCUPANCY SENSOR STANDALONE RISER DIAGRAM
E501 No Scale

MOUNTING HEIGHTS FOR ELECTRICAL DEVICES	
DEVICE	MOUNTING HEIGHTS
LIGHT SWITCHES, WALL MOUNTED OCCUPANCY SENSORS	48" TO CENTERLINE OF BOX. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25"D.
DISCONNECT SWITCHES, MOTOR STARTERS, MOTOR PUSH BUTTON STATIONS	60" TO CENTERLINE.
WALL MOUNTED EXIT SIGNS	90" TO CENTERLINE OF SIGN OR CENTERED IN WALL AREA BETWEEN TOP OF DOOR AND CEILING.
CEILING MOUNTED EXIT SIGNS	80" TO BOTTOM FIXTURE.
RECEPTACLES	16" TO BOTTOM OF BOX. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25"D.
SPECIAL OUTLETS OR RECEPTACLES	16" TO BOTTOM OF BOX OR AS NOTED ON DRAWINGS. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25"D.
PLUGMOLD OR WIREMOLD	AS NOTED ON DRAWINGS. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25"D.
CLOCK OUTLETS	12" CEILING TO CENTERLINE OR 7'-0" TO CENTERLINE IF CEILING IS OVER 8'-0".
DATA/COMMUNICATION OR TELEPHONE OUTLETS	16" TO BOTTOM OF BOX.
TELEPHONE OUTLETS - WALL TYPE	54" TO DIAL CENTER (NON-ACCESSIBLE). 48" TO HIGHEST OPERABLE PART (ACCESSIBLE).
TEMPERATURE/HUMIDITY SENSORS	60" TO CENTER LINE OF BOX.
FIRE ALARM MANUAL PULL STATIONS	48" TO CENTERLINE OF BOX - NOT MORE THAN 5'-0" FROM EXIT.
FIRE ALARM AUDIBLE ONLY DEVICE	NO LESS THAN 90" TO TOP OR 6" BELOW CEILING, WHICH EVER IS HIGHER.
FIRE ALARM VISUAL ONLY DEVICE OR A COMBINATION AUDIBLE AND VISUAL DEVICE	80" TO BOTTOM OF DEVICE OR NOT MORE THAN 96" TO TOP.
WALL MOUNTED REMOTE INDICATOR LIGHT	80" TO CENTERLINE OF DEVICE OR 6" BELOW CEILING, WHICHEVER IS LOWER.
AREA OF REFUGE TELEPHONE	SAME AS TELEPHONE - ACCESSIBLE.
CALL FOR AID SWITCH WITH PULL CHAIN TO FLOOR	48" TO CENTERLINE OF BOX MINIMUM (TOILETS). 66" TO CENTERLINE OF BOX MAXIMUM (SHOWERS - LOCATED OUT OF SPRAY AREA).
CARD READER	48" TO HIGHEST OPERABLE PART (SIDE OR FORWARD ACCESS).
INTERCOM STATION	54" TO HIGHEST OPERABLE PART (SIDE ACCESS). 48" HIGHEST OPERABLE PART (FORWARD ACCESS).
SOUND SYSTEM VOLUME CONTROL	54" TO HIGHEST OPERABLE PART (SIDE ACCESS). 48" HIGHEST OPERABLE PART (FORWARD ACCESS).
MICROPHONE OUTLETS	16" TO BOTTOM OF BOX.
THERMOSTATS	54" TO HIGHEST OPERABLE PART (SIDE ACCESS). 48" HIGHEST OPERABLE PART (FORWARD ACCESS).
MOUNTING HEIGHTS NOTES:	
1. ALL DIMENSIONS ARE CONSIDERED FROM FINISHED FLOOR AND, UNLESS NOTED OTHERWISE, SHALL NOT VARY. RAISED FLOORS SHALL BE CONSIDERED FINISHED FLOOR.	
2. ALL DIMENSIONS SHALL BE COORDINATED WITH ARCHITECTURAL DETAILS AND MAY BE ADJUSTED TO CONFORM WITH ARCHITECTURAL REQUIREMENTS AS LONG AS NO CODE RESTRICTION IS VIOLATED.	
3. OUTLETS INSTALLED LOWER THAN 15" AFF (FORWARD REACH) AND 9" AFF (SIDE REACH) ARE IN VIOLATION OF ADA.	
MOUNTING HEIGHTS SPECIAL NOTES:	
1. EXIT SIGNS SHALL NOT BE INSTALLED IN A MANNER THAT THE SIGN WILL BLOCK FIRE ALARM VISUAL DEVICES.	
2. FOR LIGHTING FIXTURE MOUNTING HEIGHTS, SEE SCHEDULE AND DRAWINGS.	

WIRE SIZING TABLE			
FOR 120V-20A BRANCH CIRCUITS ONLY (UNLESS NOTED OTHERWISE)			
IF DISTANCE (A+B) IN FEET IS: (REFER TO DIAGRAM AT RIGHT)	USE COPPER WIRE IN METALLIC CONDUIT, AWG SIZE AS FOLLOWS ON ENTIRE CIRCUIT AND SIZE CONDUIT ACCORDINGLY.		
0' TO 100'	#12 AWG (MIN.)		
100' TO 175'	#10 AWG		
175' TO 300'	#8 AWG		
300' TO 450'	#6 AWG (MAX.)		
FOR 277V-20A BRANCH CIRCUITS ONLY (UNLESS NOTED OTHERWISE)			
IF DISTANCE (A+B) IN FEET IS: (REFER TO DIAGRAM AT RIGHT)	USE COPPER WIRE IN METALLIC CONDUIT, AWG SIZE AS FOLLOWS ON ENTIRE CIRCUIT AND SIZE CONDUIT ACCORDINGLY.		
0' TO 250'	#12 AWG (MIN.)		
250' TO 400'	#10 AWG		
400' TO 700'	#8 AWG		
700' TO 1000'	#6 AWG (MAX.)		
NOTES:			
1. TABLES ARE BASED ON EVENLY DISTRIBUTED LOAD ALLOWING A 3% VOLTAGE DROP AT LAST OUTLET.			
2. 480V MOTOR BRANCH CIRCUIT CONDUCTORS SHALL BE #12 AWG IN 3/4" C UNLESS OTHERWISE NOTED.			
3. SIZE OF CONDUCTORS ARE BASED UPON EACH MOTOR BEING FED WITH SEPARATE CONDUIT. IF CONDUCTORS FOR TWO MOTORS (MAX.) ARE TO BE COMBINED IN ONE CONDUIT, INCREASE THE SIZE OF CONDUCTORS AND CONDUITS PER NATIONAL ELECTRICAL CODE (NEC), TO COMPENSATE FOR CONDUCTOR DE-RATING.			
4. PROVIDE DEDICATED NEUTRAL FOR EACH CIRCUIT.			

FEEDER SCHEDULE (COPPER)									
TAG	PHASE	WIRE	QTY RUNS	PHASE	NEUTRAL	GROUND	CONDUIT	°C RATING	AMPACTY
30	3	3	1	(3) # 10	# N/A	# 10	1"	60"	30 A
30	3	4	1	(3) # 10	# 10	# 10	1"	60"	30 A
40	3	3	1	(3) # 8	# N/A	# 10	1-1/4"	60"	40 A
40	3	4	1	(3) # 8	# 8	# 10	1-1/4"	60"	40 A
50	3	3	1	(3) # 6	# N/A	# 10	1"	60"	55 A
50	3	4	1	(3) # 6	# 6	# 10	1"	60"	55 A
60	3	3	1	(3) # 4	# N/A	# 10	1-1/4"	60"	70 A
60	3	4	1	(3) # 4	# 4	# 10	1-1/4"	60"	70 A
70	3	3	1	(3) # 4	# N/A	# 8	1-1/4"	60"	70 A
70	3	4	1	(3) # 4	# 4	# 8	1-1/4"	60"	70 A
80	3	3	1	(3) # 3	# N/A	# 8	1-1/4"	60"	85 A
80	3	4	1	(3) # 3	# 3	# 8	1-1/2"	60"	85 A
90	3	3	1	(3) # 2	# N/A	# 8	1-1/2"	60"	95 A
90	3	4	1	(3) # 2	# 2	# 8	1-1/2"	60"	95 A
100	3	3	1	(3) # 1	# N/A	# 8	1-1/2"	60"	110 A
100	3	4	1	(3) # 1	# 1	# 8	1-1/2"	60"	110 A
125	3	3	1	(3) # 1	# N/A	# 6	1-1/2"	75"	130 A
125	3	4	1	(3) # 1	# 1	# 6	2"	75"	130 A
150	3	3	1	(3) # 1/0	# N/A	# 6	2"	75"	150 A
150	3	4	1	(3) # 1/0	# 1/0	# 6	2"	75"	150 A
175	3	3	1	(3) # 2/0	# N/A	# 6	2"	75"	175 A
175	3	4	1	(3) # 2/0	# 2/0	# 6	2"	75"	175 A
200	3	3	1	(3) # 3/0	# N/A	# 6	2"	75"	200 A
200	3	4	1	(3) # 3/0	# 3/0	# 6	2-1/2"	75"	200 A
225	3	3	1	(3) # 4/0	# N/A	# 4	2-1/2"	75"	230 A
225	3	4	1	(3) # 4/0	# 4/0	# 4	3"	75"	230 A
250	3	3	1	(3) # 250	# N/A	# 4	2-1/2"	75"	255 A
250	3	4	1	(3) # 250	# 250	# 4	3"	75"	255 A
300	3	3	1	(3) # 350	# N/A	# 4	3"	75"	310 A
300	3	4	1	(3) # 350	# 350	# 4	3"	75"	310 A
400	3	3	2	(3) # 3/0	# N/A	# 3	2"	75"	400 A
400	3	4	2	(3) # 3/0	# 3/0	# 3	2-1/2"	75"	400 A
500	3	3	2	(3) # 250	# N/A	# 2	2-1/2"	75"	510 A
500	3	4	2	(3) # 250	# 250	# 2	3"	75"	510 A
600	3	3	2	(3) # 350	# N/A	# 1	3"	75"	620 A
600	3	4	2	(3) # 350	# 350	# 1	3"	75"	620 A
800	3	3	3	(3) # 300	# N/A	# 1/0	3"	75"	855 A
800	3	4	3	(3) # 300	# 300	# 1/0	3"	75"	855 A
1000	3	3	3	(3) # 400	# N/A	# 2/0	3"	75"	1005 A
1000	3	4	3	(3) # 400	# 400	# 2/0	3-1/2"	75"	1005 A
1200	3	3	4	(3) # 350	# N/A	# 3/0	3"	75"	1240 A
1200	3	4	4	(3) # 350	# 350	# 3/0	3-1/2"	75"	1240 A
1600	3	3	5	(3) # 400	# N/A	# 4/0	3"	75"	1675 A
1600	3	4	5	(3) # 400	# 400	# 4/0	3-1/2"	75"	1675 A
2000	3	3	6	(3) # 400	# N/A	# 250	3-1/2"	75"	2010 A
2000	3	4	6	(3) # 400	# 400	# 250	3-1/2"	75"	2010 A
2500	3	3	7	(3) # 500	# N/A	# 350	3-1/2"	75"	2660 A
2500	3	4	7	(3) # 500	# 500	# 350	3-1/2"	75"	2660 A
3000	3	3	8	(3) # 500	# N/A	# 400	3-1/2"	75"	3040 A
3000	3	4	8	(3) # 500	# 500	# 400	4"	75"	3040 A
4000	3	3	11	(3) # 500	# N/A	# 500	3-1/2"	75"	4180 A
4000	3	4	11	(3) # 500	# 500	# 500	4"	75"	4180 A

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FWC STORAGE BUILDING

FWC-02329180
DEPARTMENT OF MANAGEMENT SERVICES
LAKE CITY, FLORIDA

CONSTRUCTION DOCUMENTS

PROJ. NO. 172224
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ELECTRICAL SCHEDULES

E601

PANEL: A

Location: EXTERIOR PARKING BAYS

Supply From: UTILITY

Mounting: SURFACE

Enclosure: NEMA-4X

Volts: 120/208 Wye

Phases: 3

Wires: 4

A.I.C. Rating:

Mains Type: MCB

Mains Rating: 100 A

MCB Rating: 100 A

Notes:

[1] GFCI BREAKER

CKT	Circuit Description	Trip	Poles	A (kVA)		B (kVA)		C (kVA)		Poles	Trip	Circuit Description	CKT
1	LTG BAY 1,2,3	20 A	1	0.48	1.08					1	20 A	RECEPT BAY 1	2
3	LTG BAY 4,5,6	20 A	1			0.48	0.90			1	20 A	RECEPT BAY 2	4
5	LTG BAY 7,8 PARKING 1	20 A	1					0.48	0.18	1	20 A	RECEPT BAY 3 [1]	6
7	LTG PARKING 2,3,4	20 A	1	0.48	0.18					1	20 A	RECEPT BAY 3 [1]	8
9	DSSO	20 A	2			1.72	0.18			1	20 A	RECEPT BAY 3 [1]	10
11	--	--	--					1.72	0.18	1	20 A	RECEPT BAY 3 [1]	12
13	DSSO	20 A	2	1.72	0.18					1	20 A	RECEPT BAY 3 [1]	14
15	--	--	--			1.72	0.18			1	20 A	RECEPT BAY 4 [1]	16
17	RECEPT PARKING [1]	20 A	1					0.72	0.18	1	20 A	RECEPT BAY 5 [1]	18
19	RECEPT PARKING [1]	20 A	1	0.36	0.18					1	20 A	RECEPT BAY 6 [1]	20
21	RECEPT PARKING [1]	20 A	1			0.72	0.18			1	20 A	RECEPT BAY 7 [1]	22
23	RECEPT OUTDOOR, EQUIP [1]	20 A	1					1.08	0.18	1	20 A	RECEPT BAY 8 [1]	24
25	RECEPT OUTDOOR [1]	20 A	1	1.08	0.18					1	20 A	RECEPT BAY 8 [1]	26
27	RECEPT OUTDOOR [1]	20 A	1			1.08	0.18			1	20 A	RECEPT BAY 8 [1]	28
29	SPARE	20 A	1					0.00	0.18	1	20 A	RECEPT BAY 8 [1]	30
31	SPARE	20 A	1	0.00	0.18					1	20 A	RECEPT BAY 8 [1]	32
33	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	34
35	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
Total Load:				6.10 kVA		7.33 kVA		4.90 kVA					
Total Amps:				52 A		63 A		41 A					

Legend:

Panel Totals

Total Conn. Load: 18.32 kVA

Total Conn.: 51 A

Notes:

LIGHTING FIXTURE SCHEDULE													
TAG	DESCRIPTION	MANUFACTURER	CATALOG #	OR EQUAL BY	COLOR TEMP	LUMENS	INPUT WATTS	DIMMABLE	VOLTAGE	HOUSING COLOR	MOUNTING	NOTES	IMAGE
A	4FT LED WRAP	BEGHELLI	BS100LED 4 FT MO WT30: https://beghelliusa.com/products/illumine-bs100led/		3000 K	5555 lm	40W	YES 0-10V	UNIV	SELECTED BY ARCH	SUSPENDED 8' AFF	PROVIDE INTEGRAL DRIVER	
B	WALL PACK	STONCO	WP 60 SCT-G2 10 BZ: https://www.signify.com/app/assets/v1/file/Signify/content/dam/signify/industrial/05640309780406993ub/acc300197ab7/LED-Wall-Pack-DualSelect-Spec-Sheet-EN-Stonco.pdf APEL		4000 K	8160 lm	60W	NO	UNIV	BRONZE	WALL 10' AFF	PROVIDE INTEGRAL DRIVER	

NOTES:
1. IT IS RECOMMENDED THAT SCHEDULE BE FINALIZED WITH SESCO LIGHTING VENDOR AS WELL AS OWNER / ARCHITECT.
2. PROVIDE 0-10V WIRES FROM SWITCH/CONTROLLER TO ALL 0-10V DIMMABLE FIXTURES.
3. IF THERE IS A DISCREPANCY BETWEEN THE NOTES AND THE CATALOG NUMBER, THE NOTES SHALL PREVAIL.
4. PRIOR APPROVAL SUBMITTALS FOR MANUFACTURERS NOT LISTED MUST BE SUBMITTED TO THE ENGINEER 14 DAYS PRIOR TO BID DATE FOR REVIEW.
5. MANUFACTURERS NOT LISTED WILL NOT BE ACCEPTED UNLESS APPROVED BY ADDENDUM PRIOR TO BID.

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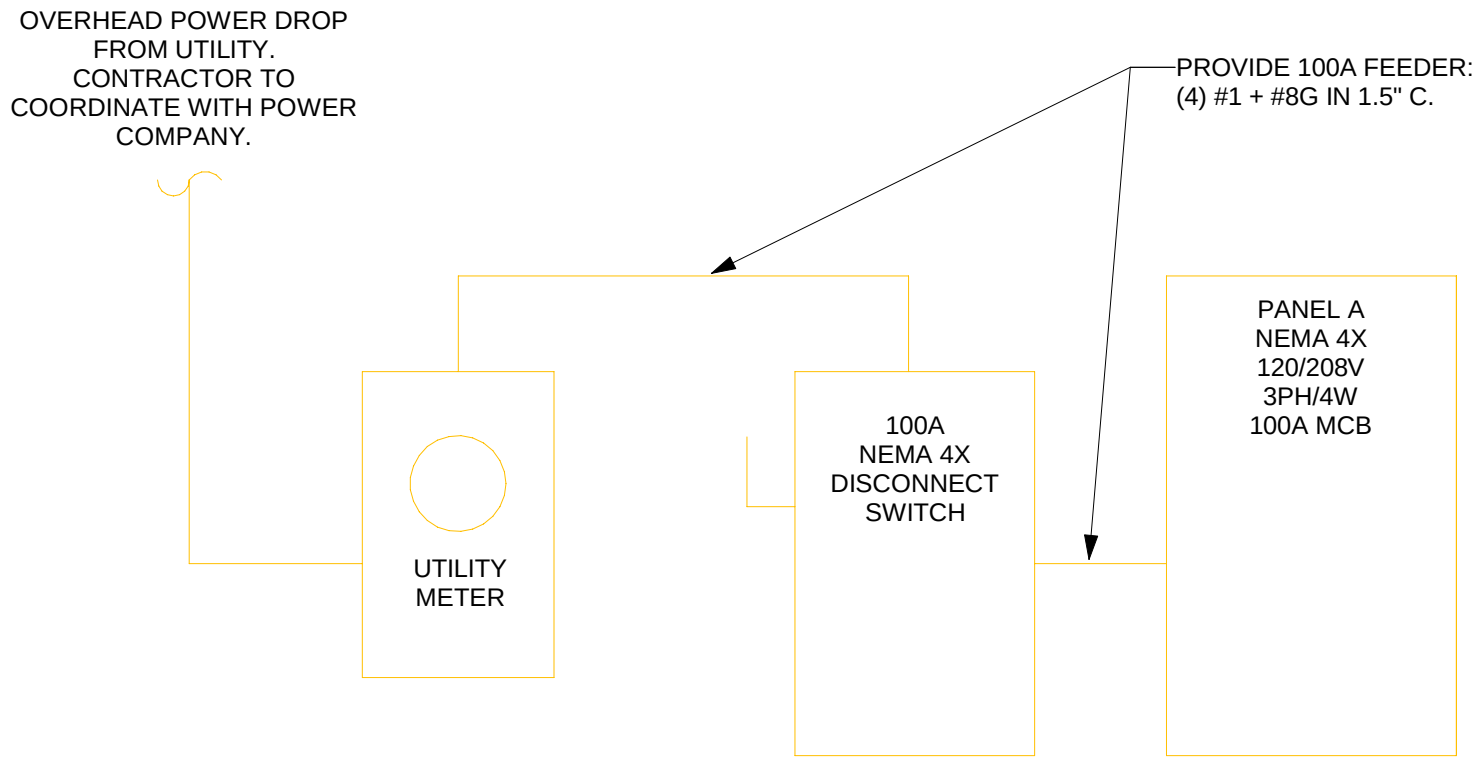
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ELECTRICAL SCHEDULES

E602

ELECTRICAL ONE-LINE NOTES

1. APPLY NEW TYPEWRITTEN PANEL DIRECTORY TO EACH PANEL WITH NEW/MODIFIED BRANCH CIRCUITS.
2. REFER TO SHEET E702 FOR GROUNDING.
3. CONTRACTOR TO COORDINATE OVERHEAD/UNDERGROUND SERVICE WITH UTILITY. REFER TO ARCHITECTURAL/CIVIL SITE PLANS FOR DETAILS.



1

E701

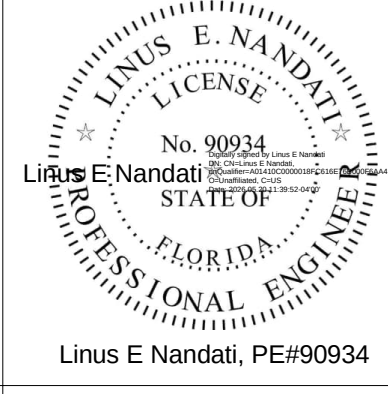
ELECTRICAL ONE-LINE

No Scale

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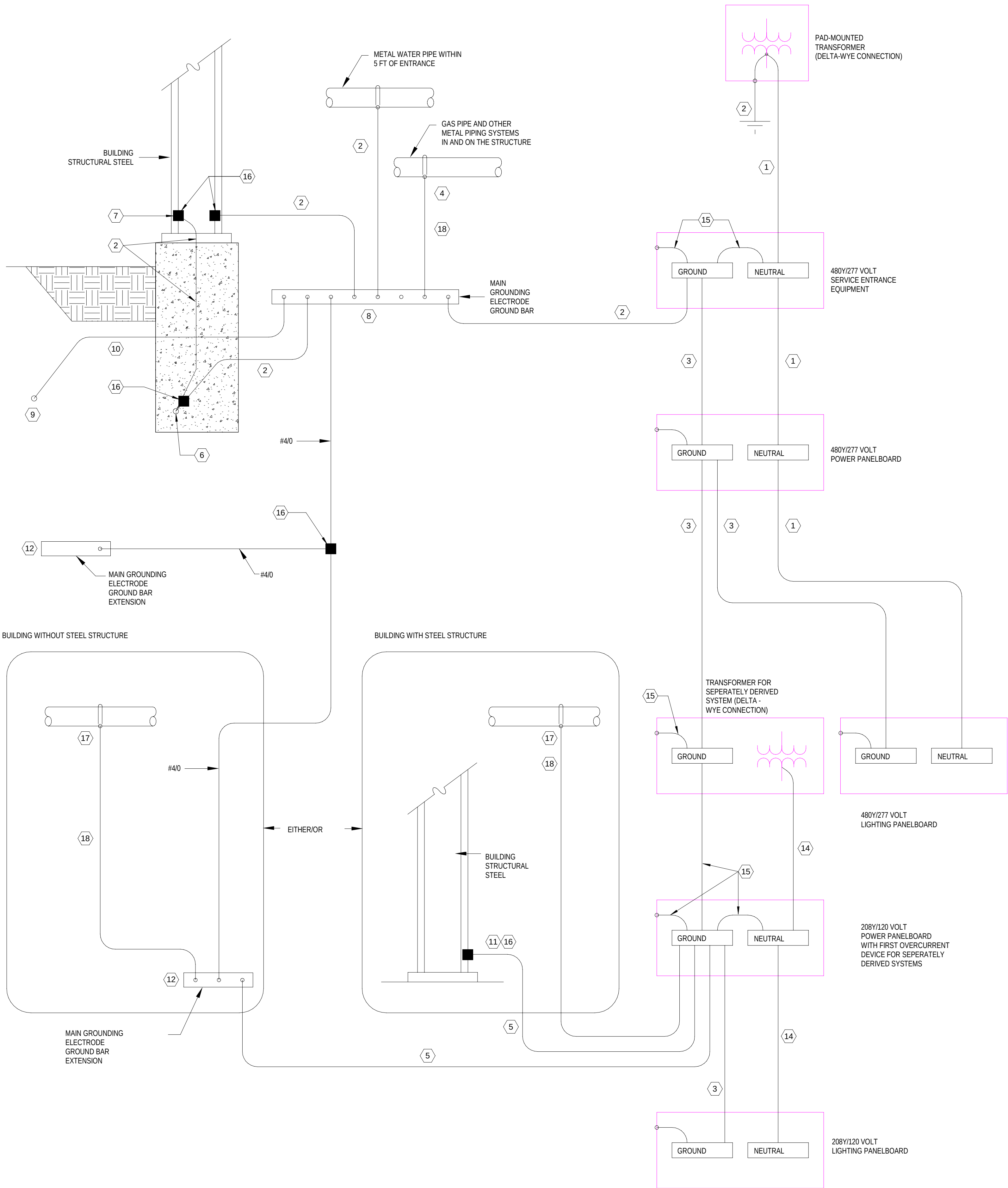
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ELECTRICAL
ONE-LINE

E701



KEYED NOTES

1. INSTALL GROUNDED (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 GROUNDED CONDUCTOR.
2. INSTALL GROUNDING ELECTRODE CONDUCTOR, SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE PHASE CONDUCTOR SIZE, BUT NOT SMALLER THAN 4 AWG.
3. INSTALL EQUIPMENT GROUNDING CONDUCTOR SIZED BASED ON NEC TABLE 250.122 USING THE FEEDER OVERCURRENT DEVICE SIZE.
4. BOND TO GAS PIPE ON THE BUILDING SIDE OF THE GAS METER, IF APPLICABLE.
5. INSTALL GROUNDING ELECTRODE CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SEPARATELY DERIVED SYSTEM PHASE CONDUCTOR SIZE.
6. INSTALL A CONCRETE-ENCASED MAIN GROUNDING ELECTRODE IN THE BUILDING FOUNDATION AROUND THE ENTIRE PERIMETER OF THE BUILDING. LOCATE ELECTRODE IN THE BOTTOM ONE-THIRD OF THE FOUNDATION WITH AT LEAST 3 INCHES OF CONCRETE COVER. USE EITHER OF THE FOLLOWING MATERIALS FOR THE ELECTRODE:

TOTAL LENGTH	MINIMUM REBAR SIZE
112 FT	1 3/8" (#11 BAR)
150 FT	1" (#8 BAR)
192 FT	3/4" (#6 BAR)
223 FT	5/8" (#5 BAR)
268 FT	1/2" (#4 BAR)
7. 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.
8. INSTALL A "MAIN GROUND ELECTRODE GROUND BAR" FOR SINGLE POINT GROUNDING. LOCATE AT AN ACCESSIBLE AND VISIBLE POINT NEAR THE SERVICE ENTRANCE EQUIPMENT. MAKE CONNECTIONS TO THE GROUND BAR USING TWO-HOLE COMPRESSION SPADE LUGS THAT MEET IEEE 837 REQUIREMENTS. LABEL EACH CONNECTION TO THE GROUND BAR.
9. LIGHTNING PROTECTION GROUNDING COUNTERPOISE - 4/0 AWG COPPER.
10. BOND THE LIGHTNING PROTECTION SYSTEM GROUNDING COUNTERPOISE TO THE MAIN GROUND ELECTRODE GROUND BAR. USE 4/0 AWG COPPER CABLE WITH 600 VOLT INSULATION. AT THE UNDERGROUND CONNECTION USE A COMPRESSION CONNECTOR THAT MEETS IEEE 837 REQUIREMENTS OR USE AN EXOTHERMIC WELD.
11. USE THE "MAIN GROUNDING ELECTRODE GROUND BAR" INSTEAD OF BUILDING STRUCTURAL STEEL IF THE FIRST OVERCURRENT DEVICE FOR THE SEPARATELY DERIVED SYSTEM IS WITHIN 50 FEET OF THE "MAIN GROUNDING ELECTRODE GROUND BAR".
12. WHERE EVER APPLICABLE IF THE BUILDING STRUCTURE IS NOT STRUCTURAL STEEL, INSTALL "MAIN GROUNDING ELECTRODE GROUND BAR EXTENSIONS" AT AN ACCESSIBLE AND VISIBLE LOCATION ADJACENT TO SEPARATELY DERIVED SYSTEMS THAT ARE MORE THAN 50 FEET FROM THE MAIN GROUNDING ELECTRODE GROUND BAR.
13. INSTALL A COPPER GROUNDING BAR IN EACH TELECOMMUNICATIONS ROOM. CONNECT TO THE "MAIN GROUNDING ELECTRODE GROUND BAR" USING 600V INSULATED 4/0 AWG COPPER CABLE AND COMPRESSION SPADE LUGS.
14. INSTALL GROUNDED (NEUTRAL) CONDUCTOR THAT IS NOT LESS THAN THE PHASE CONDUCTOR AMPACITY. IF HIGH-HARMONICS ARE PRESENT MAKE NEUTRAL AMPACITY 200% OF THE PHASE CONDUCTOR.
15. INSTALL BONDING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE SERVICE OR SEPARATELY-DERIVED SYSTEM PHASE CONDUCTOR SIZE.
16. INSTALL IRREVERSIBLE COMPRESSION CONNECTOR WITH TAMPER-PROOF HARDWARE OR INSTALL EXOTHERMIC WELD.
17. BOND TO METAL PIPING SYSTEMS IN THE AREA SERVED BY THE SEPARATELY DERIVED SYSTEM.
18. INSTALL BONDING JUMPER THAT IS SIZED BASED ON NEC TABLE 250.66 USING THE LARGEST SERVICE OR SEPARATELY DERIVED SYSTEM PHASE CONDUCTOR.

GENERAL NOTES

1. CONDUCTOR SIZES SHOWN ARE MINIMUM AND MAY BE LARGER THAN THE MINIMUM SIZES REQUIRED BY NEC.
2. INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
3. 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.
4. 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.
5. BOND HOT AND COLD WATER PIPING SYSTEMS.

1 GENERAL GROUNDING SYSTEM DETAIL

E702 No Scale

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ELECTRICAL
GROUNDING

E702