

LIGHT FIXTURE SCHEDULE							
TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS		VOLTS	MOUNTING	COMMENTS
			QTY	TYPE			
A	LITHONIA	L232-MV	2	32W T8	120V	CEILING MOUNT	STRIP FLUORESCENT LIGHT
	APPROVED EQUAL FROM TAMPA BAY LIGHTING						
	APPROVED EQUAL FROM SESCO LIGHTING						
	APPROVED EQUAL FROM WESTERN FLORIDA LIGHTING						

### GENERAL NOTES

- \*\*GENERAL NOTES APPLY TO ALL ELECTRICAL SHEETS\*\***
- DO NOT SCALE FROM THESE DRAWINGS.
  - ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC).
  - ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES TO ASSURE PROPER CLEARANCES FOR EQUIPMENT AND TO KEEP THE JOB PROGRESSING.
  - DRAWINGS ARE BASED ON FIELD OBSERVATION AND EXISTING RECORD DOCUMENTS. REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER BEFORE DISTURBING EXISTING INSTALLATION.
  - EXISTING TO REMAIN ELECTRICAL CIRCUITRY DOWNSTREAM AND UPSTREAM OF DEMOLISHED DEVICES SHALL BE MAINTAINED. PROVIDE ALL ELECTRICAL COMPONENTS (BOXES, CONDUIT, WIRING, ETC.) AS REQUIRED.
  - ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO CUT, CAPTURE AND EXTEND OR RE-ROUTE EXISTING CONDUITS AND CONDUCTORS AS REQUIRED TO ACCOMMODATE NEW DUCTWORK TO BE INSTALLED. COORDINATE WITH MECHANICAL CONTRACTOR AS REQUIRED.
  - REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT NEEDING ELECTRICAL CONNECTIONS (MOTORS, FANS, PUMPS, ETC.). MAKE ALL CONNECTIONS AND PROVIDE APPROPRIATE WIRE, CONDUIT, AND OVERCURRENT PROTECTION FOR ALL EQUIPMENT. INSTALL ANY ELECTRICAL EQUIPMENT (STARTERS, RELAYS, VFD'S, ETC.) FURNISHED BY MECHANICAL CONTRACTOR (DIV 15). COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
  - USE 10 AWG CU. CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 75 FEET. USE 10 AWG CU. WHERE WIRE SIZE IS INCREASED IN SIZE FOR VOLTAGE DROP. E.G. SHALL BE INCREASED PROPORTIONATELY. PER NEC 250.122 (B).
  - ALL CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTIVE CEILING PLANS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL REFLECTIVE CEILING PLANS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS.
  - WHERE DISCONNECTING MEANS IS NOT PROVIDED "WITHIN SIGHT" OF MECHANICAL EQUIPMENT, THE OVERCURRENT DEVICE SERVING SUCH EQUIPMENT SHALL HAVE APPROVED "LOCKED-OFF" PROVISION.
  - CONDUIT RUNS SHOWN ARE DIAGRAMMATIC IN NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER NEC.
  - PROVIDE ALL H.I.D. AND FLUORESCENT LIGHT FIXTURES WITH INTEGRAL FUSING.
  - RECEPTACLES IN MECHANICAL ROOMS, ELECTRICAL ROOMS, STORAGE ROOMS, AND JANITOR CLOSETS SHALL BE G.F.C.I. TYPE MOUNTED AT 48" A.F.F.

PANELBOARD DESIGNATION-'ADP' (EXISTING)											
VOLTAGE:	480/277V	3ø-4W	MAINS RATING:	1,000 AMPS	MAIN CB TRIP RATING:	-	INTERRUPTING RATING: 65,000 AIC				
<input type="checkbox"/> SURFACE	<input type="checkbox"/> MCB		<input type="checkbox"/> FLUSH	<input type="checkbox"/> MLO	ENCLOSURE: NEMA TYPE 1						
SERVES	CB SIZE	LOAD VA	CKT#	LOAD VA	CB SIZE	SERVES					
ELEVATORS MAIN	200		1	2							
			3	4							
			5	6							
			7	8							
EMERGENCY TRANSFORMER (PENTHOUSE)	200		9	10							
			11	12							
			13	14							
			15	16							
			17	18							
			19	20							
			21	22							
			23	24							
			25	26							
			27	28							
			29	30							
			31	32							
			33	34							
			35	36							
			37	38							
			39	40							
			41	42							
			43	44							
MAIN A/C (M.C.C.)	600		45	46							
			47	48							
			49	50							
MAIN TRANSFORMER	400		51	52							
			53	54							
			55	56							
			57	58							
			59	60							
			61	62							
			63	64							
			65	66							
			67	68							
			69	70							
			71	72							
			73	74							
			75	76							
			77	78							
			79	80							
			81	82							
			83	84							
CONNECTED:	KVA	A	B	C	EST. DEMAND:	KVA					

PANELBOARD DESIGNATION-'HBDP' (NEW)											
VOLTAGE:	480/277V	3ø-4W	MAINS RATING:	1,000 AMPS	MAIN CB TRIP RATING:	-	INTERRUPTING RATING: 65,000 AIC				
<input type="checkbox"/> SURFACE	<input type="checkbox"/> MCB		<input type="checkbox"/> FLUSH	<input type="checkbox"/> MLO	ENCLOSURE: NEMA TYPE 1						
SERVES	CB SIZE	LOAD VA	CKT#	LOAD VA	CB SIZE	SERVES					
ELEVATORS	200		1	2							
			3	4							
			5	6							
			7	8							
EMERGENCY TRANSFORMER VIA A.T.S. (PENTHOUSE)	200		9	10							
			11	12							
			13	14							
			15	16							
			17	18							
			19	20							
			21	22							
			23	24							
			25	26							
			27	28							
			29	30							
			31	32							
MOTOR CONTROL CENTER (PENTHOUSE)	600		33	34							
			35	36							
			37	38							
			39	40							
225KVA TRANSFORMER	300		41	42							
CONNECTED:	KVA	A	B	C	EST. DEMAND:	KVA					

+ PROVIDE WITH SHUNT TRIP FOR ELEVATOR SERVICE. CAPTURE AND EXTEND WIRING FROM OLD ELEVATOR E.C.B. LOCATION.

PANELBOARD DESIGNATION-'2DP' (EXISTING)											
VOLTAGE:	208/120V	3ø-4W	MAINS RATING:	600 AMPS	MAIN CB TRIP RATING:	-	INTERRUPTING RATING: 65,000 AIC				
<input type="checkbox"/> SURFACE	<input type="checkbox"/> MCB		<input type="checkbox"/> FLUSH	<input type="checkbox"/> MLO	ENCLOSURE: NEMA TYPE 1						
SERVES	CB SIZE	LOAD VA	CKT#	LOAD VA	CB SIZE	SERVES					
LB8/L17/L24	225		1	2							
			3	4		200				L18/L19/L25	
			5	6							
			7	8							
LB5/L13	225		9	10		200				LB1/LB2	
			11	12							
			13	14							
L11/L22	200		15	16		150				L21/L32	
			17	18							
			19	20							
LB12/LB1-10	150		21	22		225				LB-2	
			23	24							
			25	26							
			27	28		100				FAN COILS	
			29	30							
			31	32							
			33	34		70				SUB-PANEL	
			35	36							
			37	38		20					
			39	40		20					
			41	42		20					
CONNECTED:	KVA	A	B	C	EST. DEMAND:	KVA					

PANELBOARD DESIGNATION-'LBDP' (NEW)											
VOLTAGE:	208/120V	3ø-4W	MAINS RATING:	600 AMPS	MAIN CB TRIP RATING:	-	INTERRUPTING RATING: 65,000 AIC				
<input type="checkbox"/> SURFACE	<input type="checkbox"/> MCB		<input type="checkbox"/> FLUSH	<input type="checkbox"/> MLO	ENCLOSURE: NEMA TYPE 1						
SERVES	CB SIZE	LOAD VA	CKT#	LOAD VA	CB SIZE	SERVES					
LB8/L17	225		1	2							
			3	4		200				L18/L19	
			5	6							
			7	8							
LB5/L13	225		9	10		200				LB1/LB2	
			11	12							
			13	14							
L11	200		15	16		150				L32	
			17	18							
			19	20							
LB12/L110	150		21	22		225				LB-2	
			23	24							
			25	26							
			27	28		100				FAN COILS	
			29	30							
			31	32							
OLD SUBPANEL #1	30		33	34		30				OLD SUBPANEL #5 & #7	
OLD SUBPANEL #2	20		35	36		20				LIGHTS	
OLD SUBPANEL #3 (PUMP)	20		37	38		20					
OLD SUBPANEL #6 (PUMP)	20		39	40		20					
			41	42		20					
CONNECTED:	KVA	A	B	C	EST. DEMAND:	KVA					

### CONDUIT AND CONDUCTOR SCHEDULE

C.B.	POLES	WIRE SIZE (TYPE THW)	CONDUIT	PHASE
20A	1	2-#12, 1-#12 E.G.	3/4"	1ø 2W
	2	2-#12, 1-#12 E.G.		1ø 2W
	3	3-#12, 1-#12 E.G.		3ø 3W
25A	1	2-#10, 1-#10 E.G.	3/4"	1ø 2W
	2	2-#10, 1-#10 E.G.		1ø 2W
	3	3-#10, 1-#10 E.G.		3ø 3W
30A	1	2-#10, 1-#10 E.G.	3/4"	1ø 2W
	2	2-#10, 1-#10 E.G.		1ø 2W
	3	3-#10, 1-#10 E.G.		3ø 3W
35A	1	2-#10, 1-#10 E.G.	1"	1ø 2W
	2	2-#10, 1-#10 E.G.		1ø 2W
	3	3-#10, 1-#10 E.G.		3ø 3W
40A	1	2-#8, 1-#8 E.G.	1"	1ø 2W
	2	2-#8, 1-#8 E.G.		1ø 2W
	3	3-#8, 1-#8 E.G.		3ø 3W
45A	1	2-#8, 1-#8 E.G.	1"	1ø 2W
	2	2-#8, 1-#8 E.G.		1ø 2W
	3	3-#8, 1-#8 E.G.		3ø 3W
50A	1	2-#8, 1-#8 E.G.	1"	1ø 2W
	2	2-#8, 1-#8 E.G.		1ø 2W
	3	3-#8, 1-#8 E.G.		3ø 3W
60A	1	2-#6, 1-#6 E.G.	1 1/4"	1ø 2W
	2	2-#6, 1-#6 E.G.		1ø 2W
	3	3-#6, 1-#6 E.G.		3ø 3W
70A	1	2-#4, 1-#4 E.G.	1 1/4"	1ø 2W
	2	2-#4, 1-#4 E.G.		1ø 2W
	3	3-#4, 1-#4 E.G.		3ø 3W
80A	1	2-#4, 1-#4 E.G.	1 1/4"	1ø 2W
	2	2-#4, 1-#4 E.G.		1ø 2W
	3	3-#4, 1-#4 E.G.		3ø 3W
90A	1	2-#3, 1-#3 E.G.	1 1/4"	1ø 2W
	2	2-#3, 1-#3 E.G.		1ø 2W
	3	3-#3, 1-#3 E.G.		3ø 3W
100A	1	2-#3, 1-#3 E.G.	1 1/4"	1ø 2W
	2	2-#3, 1-#3 E.G.		1ø 2W
	3	3-#3, 1-#3 E.G.		3ø 3W

- NOTES:**
- ALL CONDUCTORS SHALL BE COPPER.
  - ALL CONDUIT SHALL HAVE EQUIPMENT GROUNDING CONDUCTOR INSTALLED.
  - CONDUIT BELOW GRADE OUTSIDE OF BUILDING SHALL BE 1" MINIMUM.
  - SIZING OF CONDUCTORS SHALL BE ALTERED FOR DERATING PER N.E.C. OR VOLTAGE DROP CONSIDERATIONS.
  - SEE RISER DIAGRAM FOR SIZING OF CIRCUITS GREATER THAN 100A.
  - USE #10 AWG COPPER CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 75 FEET. USE #10 AWG COPPER CONDUCTORS FOR 20 AMPERE, 277 VOLT BRANCH CIRCUITS LONGER THAN 200 FEET. WHERE WIRE SIZE IS INCREASED IN SIZE FOR VOLTAGE DROP, EQUIPMENT GROUND SHALL BE INCREASED PROPORTIONATELY. PER NEC 250.122 (B).
  - WHERE MC CABLE IS ALLOWED BY THE AUTHORITY HAVING JURISDICTION, THE CONDUCTORS FOR MC CABLE SHALL BE THIN. JACKET SHALL BE THE MANUFACTURER'S STANDARD SIZE FOR CONDUCTORS UTILIZED.

### ELECTRICAL SYMBOL LEGEND

ABBREVIATIONS	
A	AMPERE
AFF	HEIGHT ABOVE FINISHED FLOOR
AFC	HEIGHT ABOVE FINISHED GRADE
ETR	EXISTING TO REMAIN
GFI	GROUND FAULT CIRCUIT INTERRUPTING
TYPE	WIRING DEVICE OR CIRCUIT BREAKER
KW	KILOWATT
LTG	LIGHTING
MTR	MOTOR
N.I.C.	NOT IN CONTRACT
NF	NON-FUSED
P	POLE
PH	PHASE
REL	RELOCATED
REM	TO BE REMOVED
REP	REPLACE WITH NEW
TBR	TO BE RELOCATED
U.N.O.	UNLESS NOTED OTHERWISE
VA	VOLT AMPERE (POWER)
WP	WEATHERPROOF ENCLOSURE
YFMR	TRANSFORMER
+48"	DEVICE MOUNTED AT HEIGHT INDICATED

### ELECTRICAL SHEET INDEX

<b>E0.1</b>	- ELECTRICAL GENERAL NOTES AND PANEL SCHEDULES
<b>E5.1</b>	- ELECTRICAL POWER DEMOLITION AND PROPOSED PLANS
<b>E8.1</b>	- ELECTRICAL RISER DIAGRAM
<b>E8.2</b>	-

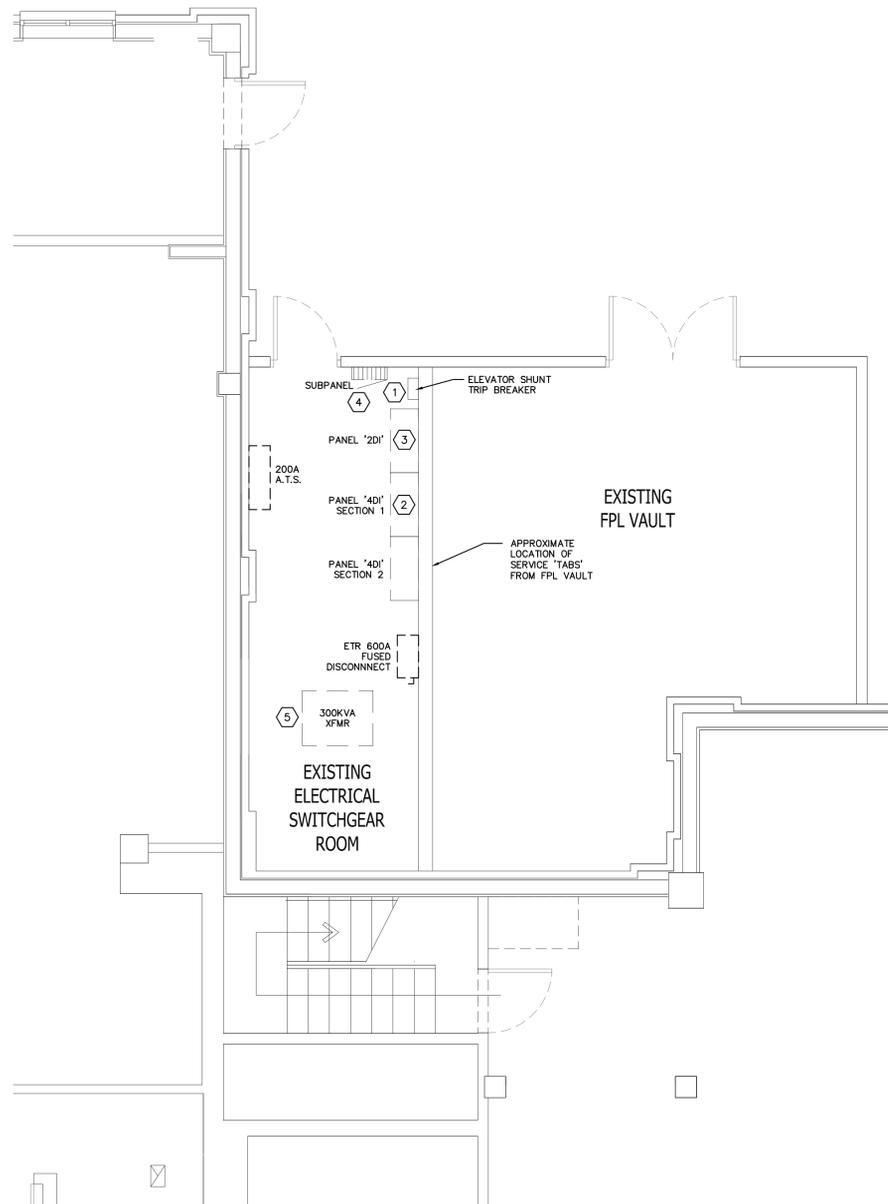
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 Phone: 941-758-2551  
 Tampa: 3825 Henderson Blvd., Suite 103  
 Tampa, FL 33629  
 Phone: 813-281-0001

PROJECT: \_\_\_\_\_  
**MANATEE COUNTY HISTORIC COURTHOUSE ELECTRICAL SWITCHGEAR REPLACEMENT**  
 1115 MANATEE AVENUE WEST  
 BRADENTON, FL 34205

PREPARED FOR: \_\_\_\_\_  
**MANATEE COUNTY GOVERNMENT PROPERTY MANAGEMENT**

REVISIONS:

#	DATE	DESCRIPTION
-	06-17-2014	ISSUED FOR PERMIT

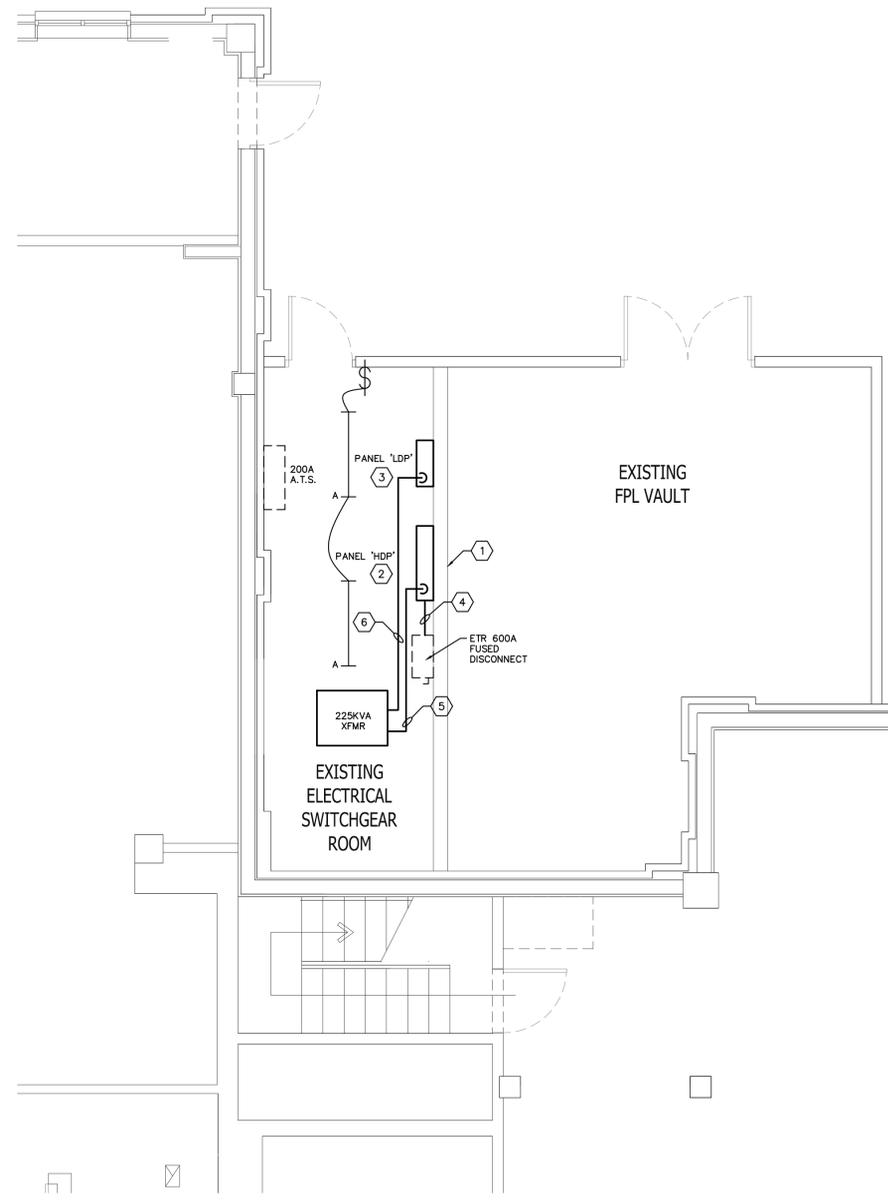


**DEMOLITION LEGEND**

---	EXISTING TO BE REMOVED
- - -	EXISTING TO REMAIN
—	NEW

- DEMOLITION KEYED NOTES**
- EXISTING ELEVATOR SHUNT TRIP CIRCUIT BREAKER TO BE REMOVED. DELIVER TO OWNER.
  - EXISTING 1000A DISTRIBUTION PANEL "4DI" TO BE REMOVED. COORDINATE DISPOSITION WITH OWNER.
  - EXISTING 1000A DISTRIBUTION PANEL "4DI" TO BE REMOVED. COORDINATE DISPOSITION WITH OWNER.
  - EXISTING SUBPANEL TO BE REMOVED. CAPTURE EXISTING BRANCH CIRCUITS AND EXTEND TO NEW PANEL "LDP". SEE PANEL SCHEDULES.
  - EXISTING 300KVA DRY-TYPE TRANSFORMER TO BE REMOVED. COORDINATE DISPOSITION WITH OWNER.

**2 ELECTRICAL POWER DEMOLITION PLAN**  
 SCALE: 1/4" = 1'-0"



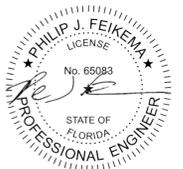
**POWER LEGEND**

---	EXISTING TO REMAIN
—	NEW

- POWER KEYED NOTES**
- APPROXIMATE LOCATION OF SERVICE "TABS" FROM FPL VAULT. COORDINATE ELECTRICAL OUTAGE WITH FPL AND OWNER. RECONNECT ELECTRICAL SERVICE TO NEW PANEL "HDP".
  - NEW 1000A MLO, 480/277VAC DISTRIBUTION PANEL "HDP". SEE PANEL SCHEDULES AND RISER.
  - NEW 600A MLO, 208/120VAC DISTRIBUTION PANEL "LDP". SEE PANEL SCHEDULES AND RISER.
  - 600A FEED. (2) 3" CONDUITS WITH (4) 350KCM CU AND (1) #1AWG CU E.G. IN EACH FROM PANEL "HDP" BUS TO EXISTING FUSED DISCONNECT.
  - 300A FEED. (1) 3" CONDUITS WITH (3) 300KCM CU AND (1) #4AWG CU E.G. IN EACH.
  - 600A FEED. (2) 3" CONDUITS WITH (3) 350KCM CU AND (1) #1AWG CU E.G. IN EACH.

**1 ELECTRICAL POWER PROPOSED PLAN**  
 SCALE: 1/4" = 1'-0"

DRAWN BY: \_\_\_\_\_ N.HAVEN  
 CHECKED BY: \_\_\_\_\_ P.FEIKEMA  
 GS JOB #: \_\_\_\_\_ 4128.13.00  
 PLOT SCALE (WHEN PRINTED ON 24X36): \_\_\_\_\_ AS NOTED  
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SHEET TITLE: \_\_\_\_\_  
**ELECTRICAL DEMOLITION AND POWER PLANS**

SHEET NUMBER: \_\_\_\_\_

**E5.1**

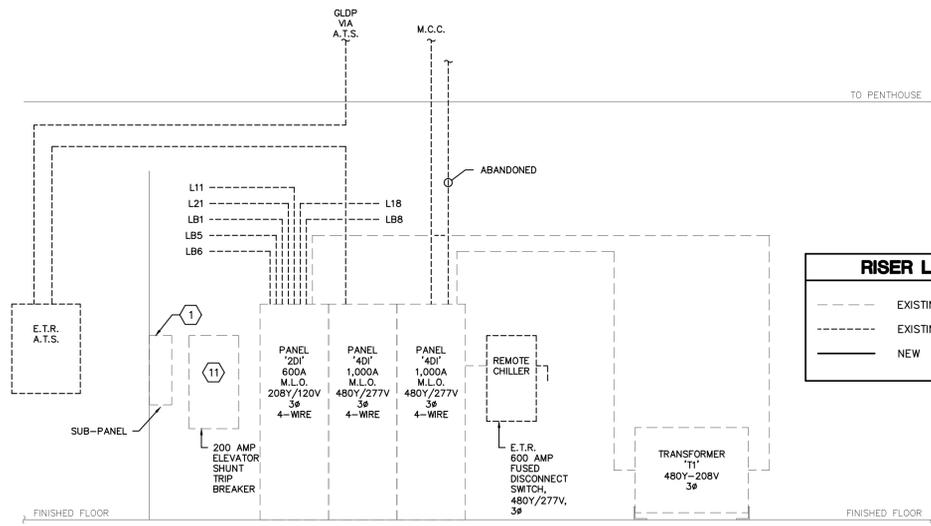
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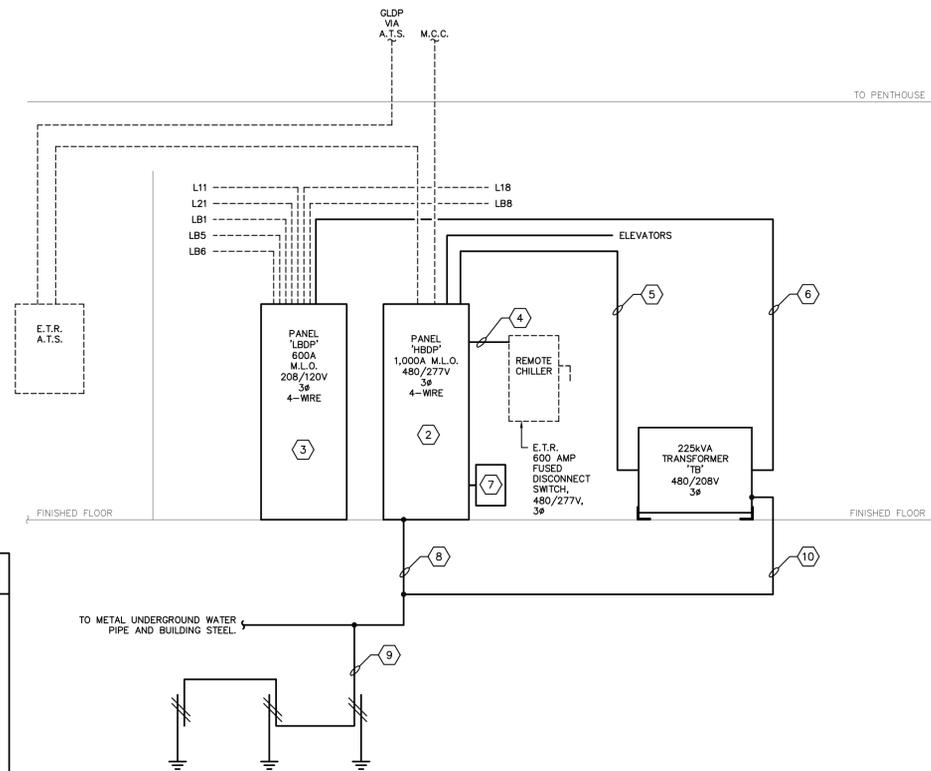
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**RISER LEGEND**

---	EXISTING TO BE REMOVED
- - - -	EXISTING TO REMAIN
—	NEW



**RISER KEYED NOTES**

- 1 EXISTING SUB-PANEL TO BE REMOVED. CAPTURE AND EXTEND ALL CIRCUITS TO NEW PANEL 'LBOP'.
- 2 NEW 1000A M.L.O. 480/277VAC DISTRIBUTION PANEL 'HBDP'. SEE PANEL SCHEDULES AND RISER. RECONNECT ALL EXISTING CIRCUITS. EXTEND ANY CIRCUITS AS NEEDED.
- 3 NEW 600A M.L.O. 208/120VAC DISTRIBUTION PANEL 'LBOP'. SEE PANEL SCHEDULES AND RISER. RECONNECT ALL EXISTING CIRCUITS. EXTEND ANY CIRCUITS AS NEEDED.
- 4 600A FEED. (2) 3" CONDUITS WITH (4) 350KCM CU AND (1) #1AWG CU E.G. IN EACH FROM PANEL 'HBDP' BUS TO EXISTING FUSED DISCONNECT.
- 5 300A FEED. (1) 3" CONDUITS WITH (3) 300KCM CU AND (1) #4AWG CU E.G. IN EACH.
- 6 600A FEED. (2) 3" CONDUITS WITH (3) 350KCM CU AND (1) #1AWG CU E.G. IN EACH.
- 7 NEW SURGE PROTECTIVE DEVICE (SPD). PROVIDE PQ PROTECTION MODEL NUMBER "PQM200-277/480", OR EQUIVALENT.
- 8 NEW #2/0 CU GROUNDING ELECTRODE CONDUCTOR IN 1" CONDUIT. BOND TO METAL UNDERGROUND WATER PIPE, BUILDING STEEL, ETC. PER NEC 250.50.
- 9 #6 AWG COPPER TO (3) NEW 5/8" X 10' COPPER GROUND RODS SPACED 10' APART.
- 10 NEW #1/0 CU GROUNDING ELECTRODE CONDUCTOR TAP IN 1" CONDUIT.
- 11 EXISTING ELEVATOR SHUNT TRIP ENCLOSED CIRCUIT BREAKER TO BE REMOVED. CAPTURE AND EXTEND CONDUCTORS TO NEW CIRCUIT BREAKER IN PANEL 'HBDP'.

**1 EXISTING ELECTRICAL RISER DIAGRAM**  
 SCALE: NOT TO SCALE

**2 PROPOSED ELECTRICAL RISER DIAGRAM**  
 SCALE: NOT TO SCALE

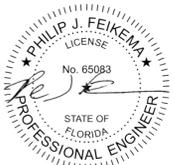
DRAWN BY: \_\_\_\_\_ N.HAVEN

CHECKED BY: \_\_\_\_\_ P.FEIKEMA

GS JOB #: \_\_\_\_\_ 4128.13.00

PLOT SCALE (WHEN PRINTED ON 24x36): \_\_\_\_\_ AS NOTED

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**ELECTRICAL RISER DIAGRAM**

SHEET NUMBER: \_\_\_\_\_

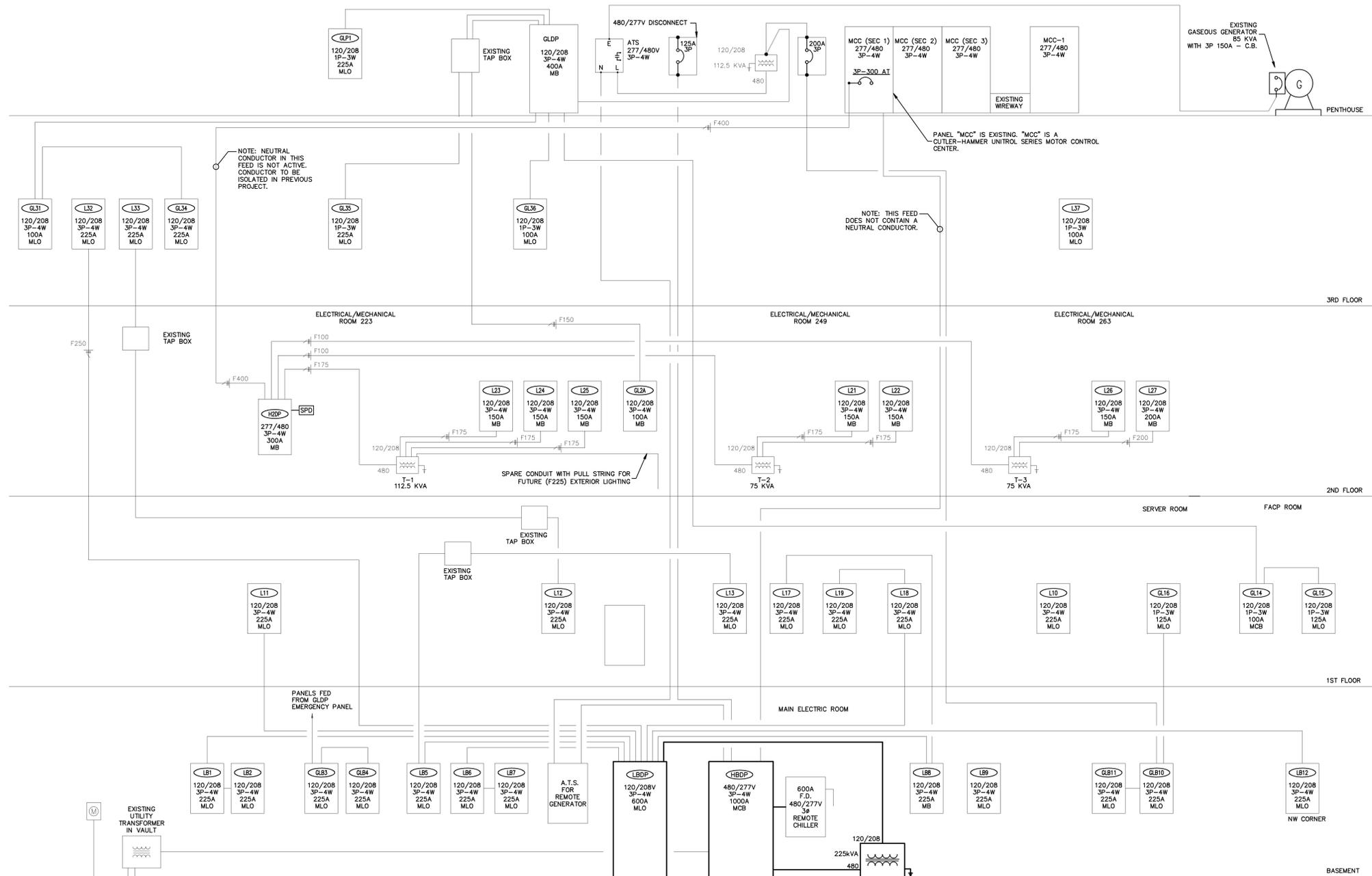
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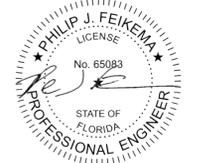
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**1 REFERENCE ELECTRICAL RISER DIAGRAM**  
 SCALE: NOT TO SCALE

**RISER LEGEND**

— EXISTING TO REMAIN  
 — NEW



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SHEET TITLE: \_\_\_\_\_  
**REFERENCE ELECTRICAL RISER DIAGRAM**

