

MDP SWITCHBOARD 208Y/120V, 3PH, 4W

LOCATION: Room 177 800 A MLO
 SUPPLY FROM: UTILITY 65,000 AIC
 SERVES: DISTRIBUTION SURFACE, TYPE 1
 OVERCURRENT DEVICE: 800A GROUND BAR/ISOLATED GROUND BAR

CKT	LOAD SERVED	WIRE	BREAKER SIZE	POLES	A	B	C
1	PANEL LPA (10,11)		200 A	3	19.57	20.66	15.12
2	PANEL LPD (10,11)		200 A	3	15.45	15.22	14.71
3	PANEL LPB (10,11)		200 A	3	16.23	16.20	13.15
4	PANEL LPG (10,11)		175 A	3	3.60	8.10	4.10
5	PANEL LPC (10,11)		200 A	3	16.25	12.24	17.53
6	PANEL LPE (10,11)		100 A	3	6.37	6.85	6.67
7	RTU - 1 (12)	3	80 A	3	5.09	5.09	5.09
8	RTU - 2 (12)	3	80 A	3	5.72	5.72	5.72
9	HUSSMAN UNIT (12)	2/0	175 A	3	12.05	12.05	12.05
10	TVSS (10,11)		30 A	1	0.00		
TOTAL CONNECTED...					100.33 kVA	102.14 kVA	94.15 kVA
TOTAL CONNECTED...					844.04 A	859.08 A	784.57 A

PER NEC ARTICLE 220

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	TOTAL DEMAND	PANEL TOTALS
CONTINUOUS	0.00 kVA			
NON-CONTINUOUS	3.50 kVA	100.00%	3.50 kVA	TOTAL CONN. LOAD: 296.62 kVA
LIGHTING	12.18 kVA	125.00%	15.22 kVA	TOTAL DEMAND LOAD: 241.72 kVA
RECEPTACLES	27.65 kVA	68.08%	18.83 kVA	TOTAL CONN. CURRENT: 823.33 A
MOTORS	27.32 kVA	100.00%	27.32 kVA	TOTAL DEMAND CURRENT: 671 A
KITCHEN	140.91 kVA	65.00%	91.59 kVA	
REFRIGERATION	49.38 kVA	100.00%	49.38 kVA	
HVAC COOL	32.75 kVA	100.00%	32.75 kVA	
HVAC HEAT	0.00 kVA	0.00%	0.00 kVA	

MV MAC VICTOR UPS SYSTEM 208Y/120V, 3PH, 4W

LOCATION: RECEIVING / UTILITY 150 30A MAIN BUS
 SUPPLY FROM: LPE
 UPSTREAM OCPD: 30A/1P
 SERVES: EQUIPMENT MVP-3KL (POWER INTERFACE BOX) AND MV-GT3000T (BATTERY BACKUP UPS) SURFACE, NEMA 1

CKT	Circuit Description	Wire	Trip	Poles	A	B	C	Poles	Trip	Wire	Circuit Description	CKT
1	CASHWRAP POS/SAFE	10	20 A	1	1.80	0.36		1	20 A	10	OFFICE PC/MONITOR/NETWORK	2
3	CPI LOW VOLTAGE DATA CABINET	12	20 A	1		1.26	0.00		1	20 A	VEEDER ROOT CONSOLE	4
5	ORDER TERMINALS	12	20 A	1			0.36		1	20 A		6
TOTAL CONNECTED KVA:					2.16 kVA	1.26 kVA	0.36 kVA					
TOTAL CONNECTED AMPS:					19.15 A	11.65 A	3.00 A					

PER NEC ARTICLE 220

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	TOTAL DEMAND	PANEL TOTALS
CONTINUOUS	0.00 kVA			
NON-CONTINUOUS	0.00 kVA			TOTAL CONN. LOAD: 3.78 kVA
LIGHTING	0.00 kVA			TOTAL DEMAND LOAD: 3.78 kVA
RECEPTACLES	3.78 kVA	100.00%	3.78 kVA	TOTAL CONN. CURRENT: 10 A
MOTORS	0.00 kVA			TOTAL DEMAND CURRENT: 10 A
KITCHEN	0.00 kVA			
REFRIGERATION	0.00 kVA			
HVAC COOL	0.00 kVA	100.00%	0.00 kVA	
HVAC HEAT	0.00 kVA	0.00%	0.00 kVA	

SCHEDULED SOLENOID VALVES

SOLENOID	CIRCUIT #	ZONE DESCRIPTION	5:00AM - 10:00AM		10:00AM - 12:00AM		12:00AM - 5:00AM	
			ON	OFF	ON	OFF	ON	OFF
a	LPC-41	COFFEE BAR TROUGH	45 SEC	20 MIN	45 SEC	60 MIN	OFF	OFF
b	LPC-41	COFFEE PREP TROUGH	45 SEC	20 MIN	45 SEC	60 MIN	OFF	OFF
c	LPC-41	CHILLZONE TROUGH	45 SEC	20 MIN	45 SEC	60 MIN	OFF	OFF

NOTE: TROUGH SPRAYER ACTIVATION TO BE OFFSET BY 3 MINUTES BETWEEN SOLENOIDS.

NOTE: CPI SHALL PROGRAM CONTACTOR CONTROLS SUCH THAT THE USER INTERFACE SHALL ALLOW USER TO ADJUST ON TIME FROM 0-999 SECONDS AND OFF TIME FROM 0-999 MINUTES WITH MANUAL ON AND MANUAL OFF OVERRIDE.

INTERIOR DIMMING SCHEDULE AND SETPOINTS

PROGRAM NAME	ZONE	BEGIN	END	SETPOINT
SALES	z1	10:00 PM	6:00 AM	100%
		6:00 AM	10:00 PM	100%
PERIMETER	z2	10:00 PM	6:00 AM	100%
		6:00 AM	10:00 PM	100%
PERIMETER	z3	10:00 PM	6:00 AM	100%
		6:00 AM	10:00 PM	100%

EC SHALL CONNECT 0-10V DIMMING CONTROL SIGNAL, 16/2 CABLE TO OUTPUT TERMINALS IN CPI PANELS. REF CPI DOCUMENTATION

EXTERIOR DIMMING SETPOINTS

PROGRAM NAME	ZONE	SETPOINT
EXTERIOR SOFFIT CANS	z4	100%
OUTDOOR PATIO	z5	100%
GAS CANOPY	z6	48%
POLE LIGHTS 1	z7	100%
POLE LIGHTS 2	z8	100%

EC SHALL CONNECT 0-10V DIMMING CONTROL SIGNAL, 16/2 CABLE TO OUTPUT TERMINALS IN CPI PANELS. REF CPI DOCUMENTATION

- PANELBOARD NOTES**
- TERMINATE GROUND ON ISOLATED GROUND BUS.
 - INSTALL LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE). LOCKING DEVICE SHALL BE UL LISTED.
 - INSTALL LOCKING DEVICE (LOCK-ON FOR CRITICAL LOAD).
 - GFI BREAKER FOR PERSONNEL PROTECTION (5mA).
 - GFI BREAKER FOR EQUIPMENT PROTECTION (30mA).
 - CONDUCTOR SIZE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUNDING CONDUCTOR PROPORTIONATELY PER NEC.
 - ROUTE CIRCUIT THROUGH CONTACTOR.
 - PROVIDE INTERLOCK WIRING WITH EXHAUST HOOD ANSUL SYSTEM.
 - PROVIDE LISTED HANDLE-TIE BETWEEN CIRCUIT BREAKERS SHARING COMMON NEUTRAL FOR SIMULTANEOUS TRIP.
 - REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES.
 - FACTORY INSTALLED BREAKER AND WIRE.
 - FACTORY INSTALLED BREAKER.

HARRISON FRENCH & ASSOCIATES, LTD.

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JOB NUMBER: 41-17-00190

ISSUE BLOCK

NO.	CLIENT REVIEW	DATE
1	CLIENT REVIEW	08/30/19
2	100%	09/27/19

CHECKED BY: JAC
 DRAWN BY: JLB
 DOCUMENT DATE:

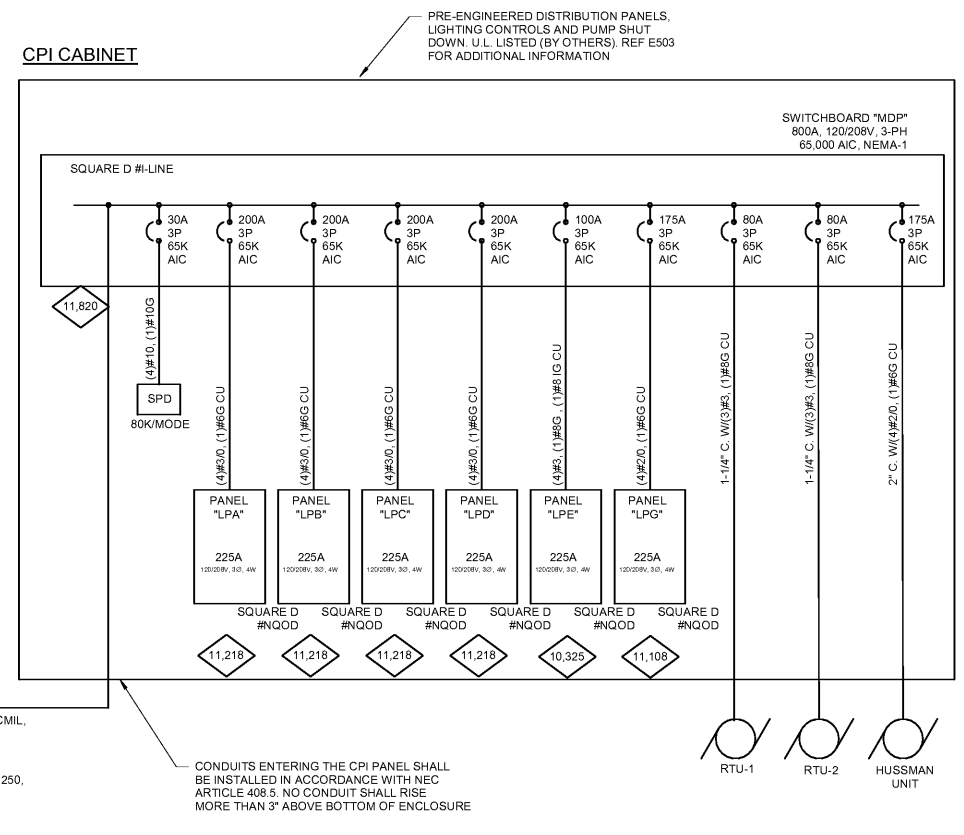
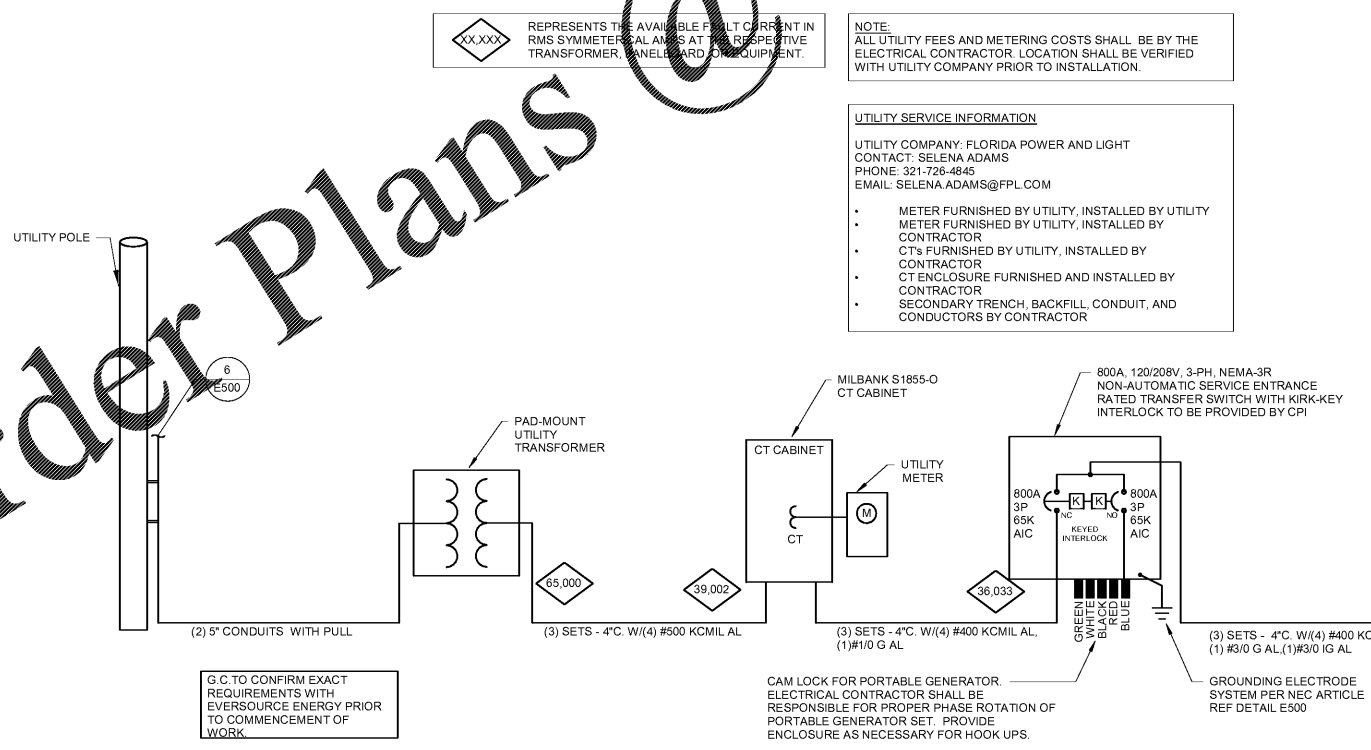
ELECTRICAL PANEL SCHEDULES AND ONE LINE DIAGRAM

SHEET: **E600**

9/20/2019 12:27:08 PM
 C:\Users\jacob\Documents\2019\Rev\Projects\17-00190_Mico_Mico_FL_Ark\41-17-00190_Elec\17-00190_Elec\17-00190_Elec.dwg

WARNING
 ARC FLASH AND SHOCK HAZARD.
 APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIRED.

NOTES:
 A. ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A COMMERCIAL PRODUCED PERMANENT LABEL APPLIED, SIMILAR TO THE ABOVE, TO WARN OF POTENTIAL ARC FLASH HAZARDS. IN ACCORDANCE WITH NEC 110.16 AND NFPA 70E.
 B. LABELING MAY BE COMPLETED BY EQUIPMENT MANUFACTURER, EQUIPMENT VENDOR/SUPPLIER, OR THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THAT ALL SWITCHBOARDS AND PANELBOARDS ARE PROPERLY LABELED IN THE FIELD.



2 **ARC FLASH DETAIL**

1 **ONE-LINE DIAGRAM**