

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

LOCATION: RECEIVING / UTILITY 46 800 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	18.05	18.67	14.98
2	PANEL LPD(10,11)		200 A	3	16.90	16.63	14.28
3	PANEL LPE(10,11)		200 A	3	15.33	16.35	14.32
4	PANEL LPG(10,11)		175 A	3	4.50	8.10	4.10
5	PANEL LPC(10,11)		200 A	3	23.17	25.08	23.99
6	PANEL LPE(10,11)		100 A	3	8.60	5.42	8.66
7	RTU-1(12)	3	80 A	3	5.09	5.09	5.09
8	RTU-2(12)	3	80 A	3	5.09	5.09	5.09
9	SPACE	--	--	--	0.00		
10	TVSS(10,11)	--	30 A	1	0.00		
TOTAL CONNECTED...					96.73 kVA	100.44 kVA	88.62 kVA
TOTAL CONNECTED...					816.49 A	847.38 A	738.47 A

PER NEC ARTICLE 220

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	TOTAL DEMAND	PANEL TOTALS
CONTINUOUS	0.00 kVA			
NON-CONTINUOUS	1.80 kVA	100.00%	1.80 kVA	TOTAL CONN. LOAD: 285.78 kVA
LIGHTING	10.54 kVA	125.00%	13.18 kVA	TOTAL DEMAND LOAD: 248.16 kVA
RECEPTACLES	23.53 kVA	71.25%	16.77 kVA	TOTAL CONN. CURRENT: 793.26 A
MOTORS	26.06 kVA	100.00%	26.06 kVA	TOTAL DEMAND CURRENT: 689 A
KITCHEN	96.47 kVA	65.00%	62.71 kVA	
REFRIGERATION	62.62 kVA	100.00%	62.62 kVA	
HVAC COOL	60.90 kVA	100.00%	60.90 kVA	
HVAC HEAT	0.00 kVA	0.00%	0.00 kVA	

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

LOCATION: RECEIVING / UTILITY 46 30A MAIN BUS
 SUPPLY FROM: LPE SURFACE, NEMA 1
 UPS/STREAM OCPD: 30A/1P EQUIPMENT MVP-3KL (POWER INTERFACE BOX) AND MV-GT3000T (BATTERY BACKUP UPS)

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	12	VEEDER ROOT CONSOLE	4
5	ORDER TERMINALS	12	20 A	1			0.36					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%
SALES RECESSED CAN LIGHTS	z3	6:00 AM	10:00 PM	100%
		10:00 PM	6:00 AM	100%
VESTIBULE RECESSED CAN LIGHTS	z4	6:00 AM	10:00 PM	100%
		10:00 PM	6:00 AM	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	z5	100%
GAS CANOPY	z6	87%
POLE LIGHTS 1	z7	100%
POLE LIGHTS 2	z8	100%
OUTDOOR PATIO	z9	100%

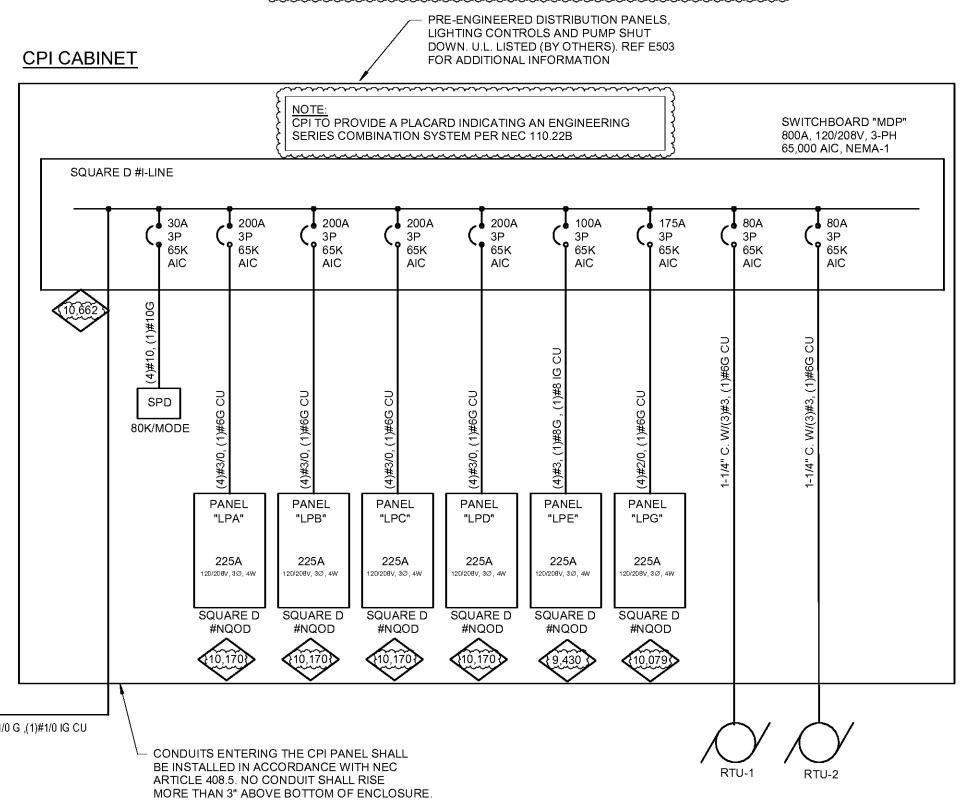
EC SHALL CONNECT 0-10V DIMMING CONTROL SIGNAL, 16/2 CABLE TO OUTPUT TERMINALS IN CPI PANELS. REF CPI DOCUMENTATION

- 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 HAND-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.

MATERIAL CALCULATIONS

SOURCE	DESTINATION	TRANSFORMER (T) / FEEDER (F)	WIRE SIZE	WIRE TYPE	WIRE LG (SFC)	CONDUIT TYPE	WIRE LENGTH (FT)	WIRES PER PHASE (IF PARALLELED)	PHASE (1 / 3)	VOLTAJE (L-L) SECONDARY	VOLTAJE (L-N) SECONDARY	XFRMR SIZE	PRIMARY VOLTAJE	SECONDARY VOLTAJE	#Z	AC @ SOURCE	AC @ DESTINATION
UTIL-S	NTS	F	300	COPPER	35C	PVC	85	3	3	208	120					12322	10815.2537
MDP	LPA	F	3/0	COPPER	35C	PVC	10	3	3	208	120					10815.2537	10661.8721
MDP	LPB	F	3/0	COPPER	35C	RIGID	7	1	3	208	120					10661.8721	10169.764
MDP	LPC	F	3/0	COPPER	35C	RIGID	7	1	3	208	120					10661.8721	10169.764
MDP	LPD	F	3/0	COPPER	35C	RIGID	7	1	3	208	120					10661.8721	10169.764
MDP	LPE	F	2/0	COPPER	35C	RIGID	7	1	3	208	120					10661.8721	10079.4441
MDP	LPG	F	3	COPPER	35C	RIGID	7	1	3	208	120					10661.8721	9430.61403

NO ELECTRICAL EQUIPMENT OR OUTLETS SHALL BE LOCATED BELOW DESIGN FLOOD ELEVATION (BASE FLOOD ELEVATION +1 FOOT) PER CITY OF FORT LAUDERDALE ORDINANCE ARTICLE II SEC. 14-10 AND 14-17.4

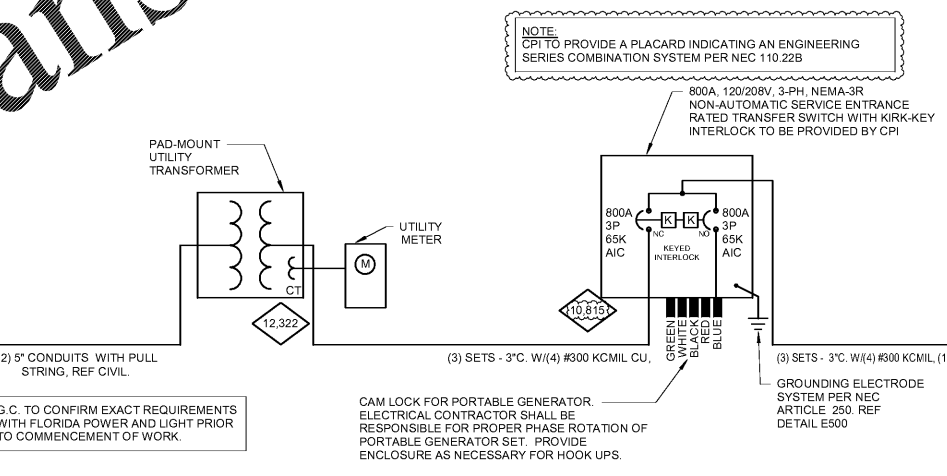
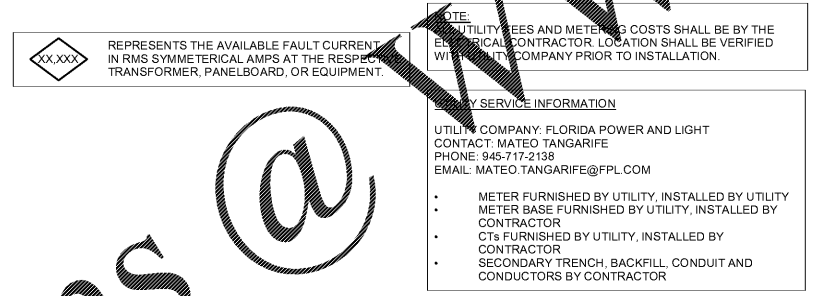


WARNING

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

- NOTES:
- 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.
 - 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

HARRISON FRENCH & ASSOCIATES, LTD.

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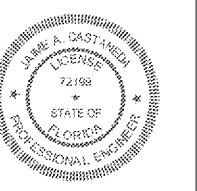
SUNRISE AND 4TH STREET
 FORT LAUDERDALE, FL

JOB NUMBER: 41-17-00410

ISSUE BLOCK

90% CD'S	05/10/19
100% SET	06/14/19
90% AIM 4.0	08/14/19
100% AIM 4.0	09/11/19
BULLETIN 3	11/08/19

CHECKED BY: JLB
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ELECTRICAL PANEL SCHEDULES AND ONE LINE DIAGRAM

SHEET: **E600**

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