

Existing Branch Panel: MDP										System: NORMAL									
Bus Rating: 1200 A					200 A MCB					Fed By: MDP					Isolated Ground Bus: NO				
Bus Material: CU/SN					Neutral Rating: 100%					Location: ELEC ROOM					Mounting: SURFACE				
Wire / Conduit: 3 runs 3#600, #600N, #20G, 4" C					Feed-Thru Lugs: NO					AIC Rating: 22000 A					Enclosure (NEMA): TYPE 1				
Feeder Ampacity: 1260 A					Fused Branches: NO					Distribution System: 208Y/120 VAC, 3 ø, 4 W									
CKT	LOAD DESCRIPTION	TYPE	LOAD AMPS	WIRE SIZE	COND. SIZE	TRIPPOLE (Note 2)	A	B	C	TRIPPOLE (Note 2)	COND. SIZE	WIRE SIZE	LOAD AMPS	TYPE	LOAD DESCRIPTION	CKT			
1	NEW RTU-6	C	24 A	3-#8, 1-#10, 1-#10	1"	40 A / 3P	2824	2824			1"	3-#8, 1-#10, 1-#10	24 A	C	NEW RTU-6	2			
3	Space	--	--	--	--	--	2824	2824			--	--	--	--	Space	4			
5	Space	--	--	--	--	--	2824	2824			--	--	--	--	Space	6			
7	NEW RTU-2	C	24 A	3-#8, 1-#10, 1-#10	1"	40 A / 3P	2824	2824			1"	3-#8, 1-#10, 1-#10	24 A	C	NEW RTU-4	8			
9	Space	--	--	--	--	--	2824	2824			--	--	--	--	Space	10			
11	EXISTING PANEL 'LPCR'	MIS	42 A	3-#3, 1-#3, 1-#8	1 1/4"	100 A / 3P	6100	0							Space	12			
13	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	0							Space	14			
15	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	0							Space	16			
17	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	0							Space	18			
19	NEW RTU-1	C	87 A	3-#3, 1-#3, 1-#8	1 1/4"	110 A / 3P	11404	0							NOT AVAILABLE	20			
21	Space	--	--	--	--	--	11404	0			--	--	--	--	NOT AVAILABLE	22			
23	Space	--	--	--	--	--	11404	0			--	--	--	--	NOT AVAILABLE	24			
25	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	1560							Space	26			
27	Space	--	--	--	--	--	500	1560			--	--	--	--	Space	28			
29	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	1560							Space	30			
31	Space	--	--	--	--	--	500	1560			--	--	--	--	Space	32			
33	Space	--	--	--	--	--	500	1560			--	--	--	--	Space	34			
35	Space	--	--	--	--	--	500	1560			--	--	--	--	Space	36			
37	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	1560							EXISTING PANEL LP3	38			
39	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	1560							EXISTING PANEL LP3	40			
41	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	1560							EXISTING PANEL LPSP	42			
Total Load:							7648 VA	8470 VA	8745 VA							48			
Total:							637 A	717 A	739 A										

Notes:
 1. Each circuit is shown as an individual homerun. Contractor may elect to combine two or three non-harmonics producing circuits in a common raceway. Contractor shall not install more than three circuits in a common conduit, except where specifically noted and allowed. Where more than three conductors are installed in a common raceway, the ampacity of all current-carrying conductors shall be derated and conductor size All wires shall have THHN/THWN insulation unless noted otherwise. Increased per N.E.C. 2017 Article 310.15(B)(3)(a). Voltage drop - Use #10 wires for 20Amp 120V cks longer than 75 feet, use #10 wires for 20Amp 277V cks longer than 200 feet.
 2. All breakers 100amp or less shall be rated for 75/90°C wire termination. Breakers rated for only 60°C wire termination shall not be used. All breakers greater than 100Amp shall be rated for 75°C termination. N.E.C. 2017 Article 110.14(C)(1).
 3. For 3-pole breaker, provide 3 wires + grd where neutral is not used or req'd. Similarly for 2-pole bkr, provide 2 wires + grd if neut. is not req'd.

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
L	Lighting	0 VA	0.00%	0 VA
OL	Outside Lighting	0 VA	0.00%	0 VA
C	Cooling	96318 VA	100.00%	96318 VA
H	Heating	0 VA	0.00%	0 VA
MT	Motor	100 VA	125.00%	125 VA
R	Receptacle	10150 VA	99.26%	10075 VA
NC	Non-Coincidental	0 VA	0.00%	0 VA
MIS	Misc Non-Continuous	137266 VA	100.00%	137266 VA
MC	Misc Continuous	0 VA	0.00%	0 VA
K	Kitchen	0 VA	0.00%	0 VA
EX	Existing	0 VA	0.00%	0 VA
Spare	0 VA	0.00%	0 VA	
Total Conn. Load:				248743 VA
Total Est. Demand:				249521 VA
Total Conn.:				690 A
Total Est. Demand:				694 A

Existing Branch Panel: LPSP										System: NORMAL									
Bus Rating: 225 A					200 A MLO					Fed By: MDP					Isolated Ground Bus: NO				
Bus Material: CU/SN					Neutral Rating: 100%					Location: ELEC ROOM					Mounting: SURFACE				
Wire / Conduit: 3#60, #30N, #6G, 2" C					Feed-Thru Lugs: NO					AIC Rating: 22000 A					Enclosure (NEMA): TYPE 1				
Feeder Ampacity: 200 A					Fused Branches: NO					Distribution System: 208Y/120 VAC, 3 ø, 4 W									
CKT	LOAD DESCRIPTION	TYPE	LOAD AMPS	WIRE SIZE	COND. SIZE	TRIPPOLE (Note 2)	A	B	C	TRIPPOLE (Note 2)	COND. SIZE	WIRE SIZE	LOAD AMPS	TYPE	LOAD DESCRIPTION	CKT			
1	Spare	--	--	--	--	--	0	0							Space	2			
3	Spare	--	--	--	--	--	0	0							Space	4			
5	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	6			
7	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	8			
9	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	10			
11	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	12			
13	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	14			
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17	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	18			
19	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	20			
21	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	22			
23	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	24			
25	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	26			
27	Space	--	--	--	--	--	0	0							Space	28			
29	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	30			
31	Space	--	--	--	--	--	0	0							Space	32			
33	Space	--	--	--	--	--	0	0							Space	34			
35	Space	--	--	--	--	--	0	0							Space	36			
37	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	38			
39	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	40			
41	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	42			
Total Load:							9240 VA	6620 VA	7620 VA										
Total:							78 A	55 A	65 A										

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H	Heating	0 VA	0.00%	0 VA
MT	Motor	0 VA	0.00%	0 VA
R	Receptacle	0 VA	0.00%	0 VA
NC	Non-Coincidental	0 VA	0.00%	0 VA
MIS	Misc Non-Continuous	2440 VA	100.00%	2440 VA
MC	Misc Continuous	0 VA	0.00%	0 VA
K	Kitchen	0 VA	0.00%	0 VA
EX	Existing	0 VA	0.00%	0 VA
Spare	0 VA	0.00%	0 VA	
Total Conn. Load:				2440 VA
Total Est. Demand:				2440 VA
Total Conn.:				65 A
Total Est. Demand:				65 A

Existing Branch Panel: LPCR										System: NORMAL									
Bus Rating: 225 A					100 A MLO					Fed By: MDP					Isolated Ground Bus: NO				
Bus Material: CU/SN					Neutral Rating: 100%					Location: ELEC ROOM					Mounting: SURFACE				
Wire / Conduit: 3#60, #30N, #6G, 2" C					Feed-Thru Lugs: NO					AIC Rating: 22000 A					Enclosure (NEMA): TYPE 1				
Feeder Ampacity: 100 A					Fused Branches: NO					Distribution System: 208Y/120 VAC, 3 ø, 4 W									
CKT	LOAD DESCRIPTION	TYPE	LOAD AMPS	WIRE SIZE	COND. SIZE	TRIPPOLE (Note 2)	A	B	C	TRIPPOLE (Note 2)	COND. SIZE	WIRE SIZE	LOAD AMPS	TYPE	LOAD DESCRIPTION	CKT			
1	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							EMS PANEL	2			
3	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	4			
5	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	6			
7	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	8			
9	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	10			
11	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	12			
13	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	14			
15	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	16			
17	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	18			
19	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	20			
21	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	22			
23	Space	--	--	--	--	--	0	0							Space	24			
25	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	26			
27	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	28			
29	EXISTING LOAD	MIS	4 A	1-#12, 1-#12, 1-#12	3/4"	20 A / 1P	500	500							Space	30			
3																			