

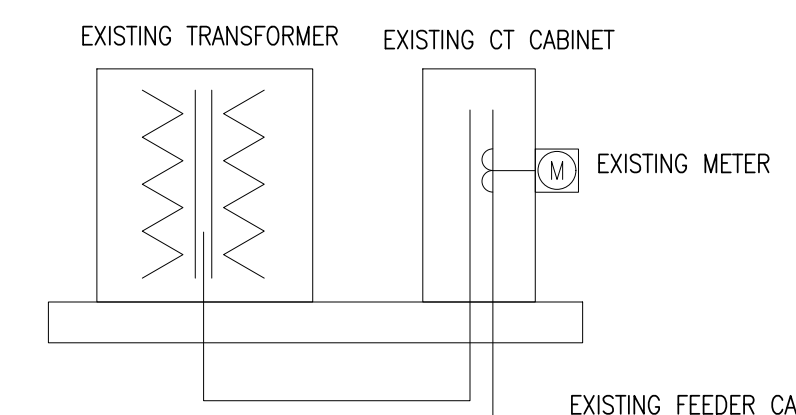


MDP									
ROOM			VOLTS 208Y/120V 3P 4W			AIC 65,000			
MOUNTING SURFACE			BUS AMPS 1200			MAIN BKR 1200			
FED FROM UTILITY			NEUTRAL 100%			LUGS STANDARD			
NOTE EXISTING									
CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA			FEEDER RACEWAY AND CONDUCTORS			
			A	B	C				
1	60/3	PANEL P	3.44	3.53	2.56	1-1/4"C,3#4,#10G			
2	20/3	EXT LOAD	0	0	0				
3	100/2	EXT LOAD	0	0	0				
4	30/2	EXT LOAD	0	0	0				
5	50/2	EXT LOAD	0	0	0				
6	60/2	EXT LOAD	0	0	0				
7	800/3	EXT LOAD	0	0	0				
8	200/2	EXT LOAD	0	0	0				
9	400/3	EXT LOAD	0	0	0				
10	500/3	EXT LOAD	0	0	0				
11	200/3	EXT LOAD	0	0	0				
12	100/2	EXT LOAD	0	0	0				
13	30/2	EXT LOAD	0	0	0				
14	50/2	EXT LOAD	0	0	0				
15	100/3	EXT LOAD	0	0	0				
16	80/3	EXT LOAD	0	0	0				
17	125/3	EXT LOAD	0	0	0				
18	225/2	EXT LOAD	0	0	0				
19	225/2	EXT LOAD	0	0	0				
20	225/2	EXT LOAD	0	0	0				
21	125/3	EXT LOAD	0	0	0				
22	20/3	EXT LOAD	0	0	0				
23	20/3	SPACE	0	0	0				
24	20/3	SPACE	0	0	0				
25	20/3	SPACE	0	0	0				
26	20/3	SPACE	0	0	0				
27	20/3	SPACE	0	0	0				
28	20/3	SPACE	0	0	0				
29	20/3	SPACE	0	0	0				
30	20/3	SPACE	0	0	0				
TOTAL CONNECTED KVA BY PHASE			3.44	3.53	2.56				
			CONN KVA	CALC KVA					
LIGHTING			0.46	0.575	(125%)	RECEPTACLES 3.42 3.42 (50%>10)			
LARGEST MOTOR			3.99	0.998	(25%)	CONTINUOUS 1.66 2.07 (125%)			
						COOLING 3.99 3.99 (100%)			
						TOTAL LOAD 11.1			
						BALANCED 3-PHASE LOAD 30.7 A			
						PHASE A 110%			
						PHASE B 113%			
						PHASE C 77.5%			

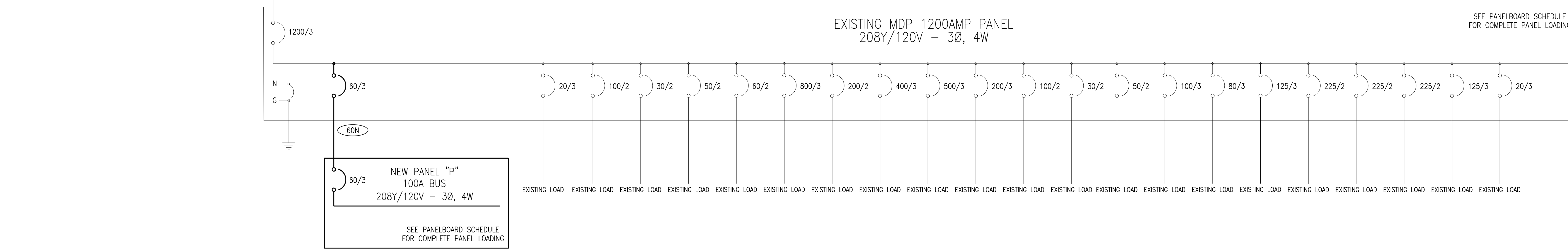
Panel P									
ROOM			VOLTS 208Y/120V 3P 4W			AIC 65,000			
MOUNTING RECESSED			BUS AMPS 100			MAIN BKR 60			
FED FROM MDP			NEUTRAL 100%			LUGS STANDARD			
NOTE NEW									
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION			CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
			1	20/1	0.54				
3	20/1	0.36	RM 4 RECEPTACLE	b	4	20/1	0.095	EXTERIOR LIGHTING	
5	20/1	0.36	RM 3 RECEPTACLE	c	6	30/1	1.66	F-1	
7	20/1	0	RM 3 RECEPTACLE	a	8	40/2	3.99	CU-1	
9	20/1	0.36	RECEPTION RECEPTACLE	b	10	1	0		
11	20/1	0.36	RECEPTION RECEPTACLE	c	12	20/1	0	SPACE	
13	20/1	0.36	RECEPTION RECEPTACLE	a	14	20/1	0	SPACE	
15	20/1	0.54	CORRIDOR RECEPTACLE	b	16	20/1	0	SPACE	
17	20/1	0.18	EXTERIOR RECEPTACLE	c	18	20/1	0	SPACE	
19	20/1	0.18	PRINTER RECEPTACLE	a	20	20/1	0	SPACE	
21	20/1	0.18	ROOF RECEPTACLE	b	22	20/1	0	SPACE	
23	20/1	0	SPACE	c	24	20/1	0	SPACE	
25	20/1	0	SPACE	a	26	20/1	0	SPACE	
27	20/1	0	SPACE	b	28	20/1	0	SPACE	
29	20/1	0	SPACE	c	30	20/1	0	SPACE	
31	20/1	0	SPACE	a	32	20/1	0	SPACE	
33	20/1	0	SPACE	b	34	20/1	0	SPACE	
35	20/1	0	SPACE	c	36	20/1	0	SPACE	
37	20/1	0	SPACE	a	38	20/1	0	SPACE	
39	20/1	0	SPACE	b	40	20/1	0	SPACE	
41	20/1	0	SPACE	c	42	20/1	0	SPACE	
			CONN KVA	CALC KVA		CONN KVA	CALC KVA		
LIGHTING			0.46	0.575	(125%)	RECEPTACLES 3.42	3.42	(50%>10)	
LARGEST MOTOR			3.99	0.998	(25%)	CONTINUOUS 1.66	2.07	(125%)	
						COOLING 3.99	3.99	(100%)	
						TOTAL LOAD 11.1			
						BALANCED 3-PHASE LOAD 30.7 A			
						PHASE A 110%			
						PHASE B 113%			
						PHASE C 77.5%			

**GENERAL NOTES**

- AIC RATINGS ARE ESTIMATED BASED ON AVAILABLE DATA DURING DESIGN. CONTRACTOR TO VERIFY AVAILABLE FAULT CURRENT WITH UTILITY.
- FAULT CURRENT, ARC FLASH, AND COORDINATION STUDY SHALL BE PERFORMED BY A THIRD PARTY ONCE EXACT PANEL PLACEMENT AND DISTANCES ARE DETERMINED. REFER TO SPECIFICATIONS SECTION 26 0573 FOR MORE INFORMATION.
- PROVIDE A MINIMUM OF 10 SPARE 1P20A BREAKERS FOR EACH 120V SUB-PANEL.



CALLOUT	DESCRIPTION	VOLTS	HP	KVA	MCA	MOCP	CIRCUIT	WIRE CALLOUT	DISCONNECT	DISC PROV BY	DISC INST BY
CU-1	CONDENSING UNIT	208/120V 2P 3W		3.99	24	40	P-8,10	3/4"C,2#10,#10N,#10G	NON-FUSED	EC	EC
F-1	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	20	30	P-6	3/4"C,1#12,#12N,#12G	NON-FUSED	EC	EC



### 1 ELECTRICAL ONE-LINE DIAGRAM

NO SCALE