

New Panel 'L3'																		
Location: ELECT. ROOM							Volts: 208				A.I.C. Rating: 18,000 AIC							
Supply From: 75KVA TRANSFORMER							Phase: 3				Mains Type: Copper							
Mounting: Surface							Wires: 4				Mains Rating: 250 A							
Enclosure: NEMA 1											Mains Type: MLO							
Panel notes:																		
CKT #	Load Description	Circuit Breaker			Load		BUS	Load		Circuit Breaker			Load Description	CKT #				
		Type	Trip	Pole(s)	Class	VA		VA	Class	Pole(s)	Trip	Type						
1	WAITING ROOM RECEPTS		1	20	[R]	1260	A	370	[E]	1	20	GFCI	EW-C-1	2				
3	COMMON ROOM RECEPTS		1	20	[R]	1080	B	180	[R]	1	20		XRAY COMPUTER	4				
5	RECESSED CLOCK RECEPTACLE		1	20	[R]	500	C	500	[R]	1	20	GFCI	FUTURE WATER FILTRATION SYSETM	6				
7	RECEPTION RECEPTS		1	20	[R]	900	A	1656	[E]	1	20	GFCI	GD-1 / RO-1	8				
9	ADMIN RECEPTS		1	20	[R]	900	B	1000	[E]	1	20	GFCI	STAFF ROOM REFRIGERATOR	10				
11	EXAM RM 1 RECEPT		1	20	[R]	1080	C	1000	[E]	1	20	GFCI	STAFF ROOM MICROWAVE	12				
13	EXAM RM 2 RECEPT		1	20	[R]	1260	A	360	[R]	1	20	GFCI	STAFF ROOM KITCHEN RECEPTS	14				
15	OPEN BAY RECEPTS		1	20	[R]	1260	B	1000	[E]	1	20	GFCI	ULTRASONIC CLEANER	16				
17	OFFICE RECEPTS		1	20	[R]	1080	C	1000	[E]	1	20	GFCI	AUTOCLAVE STERILIZER	18				
19	HALLWAY & STAFF RECEPTS		1	20	[R]	900	A	1000	[E]	1	20	GFCI	SINGLE CASSETTE STERILIZER	20				
21	OPEN BAY RECEPTS		1	20	[R]	1080	B	500	[E]	1	20	GFCI	UNDERCOUNTER REFRIGERATOR	22				
23	OPERATION RM AND STERIL RECEPTS		1	20	[R]	900	C	500	[E]	1	20		3D PRINTER	24				
25	LAB & MECH RECEPTS		1	20	[R]	720	A	500	[E]	1	20		3D PRINTER	26				
27	IMAGING RECEPTS		1	20	[R]	360	B	728	[E]	2	20	GFCI	DENTAL AIR COMPRESSOR	28				
29	CHAIR 1 RECEPT		1	20	[E]	1000	C	728	[E]	/	/	GFCI	/	30				
31	CHAIR 2 RECEPT		1	20	[E]	1000	A	2496	[E]	2	30	GFCI	DENTAL VACUUM PUMP	32				
33	CHAIR 3 RECEPT		1	20	[E]	1000	B	2496	[E]	/	/	GFCI	/	34				
35	CHAIR 4 RECEPT		1	20	[E]	1000	C	2080	[E]	2	25		PANORAMIC X-RAY	36				
37	CHAIR 5 RECEPT		1	20	[E]	1000	A	2080	[E]	/	/		/	38				
39	CHAIR 6 RECEPT		1	20	[E]	1000	B	2250	[E]	2	25	GFCI	EW-H-1	40				
41	CHAIR 7 RECEPT		1	20	[E]	1000	C	2250	[E]	/	/		/	42				
43	CONTROL PANEL		1	20	[E]	500	A	70	[E]	1	20	GFCI	DCP-1	44				
45	DENTAL LIGHTS		1	20	[L]	700	B	528	[E]	1	15	GFCI	EF-6,7	46				
47	OFFICE LIGHTING EF-1,2,4,5		1	20	[L]	1106	C	612	[E]	1	15	GFCI	EF-3	48				
49	OFFICE LIGHTING		1	20	[L]	1206	A	360	[R]	1	20	GFCI	STORAGE / RR RECEPTACLE	50				
51	RO SYSTEM	GFCI	1	20	[R]	180	B	900	[R]	1	20		OP 316 RECEPTACLES	52				
53	SPARE		1	20			C	720	[R]	1	20		SERVERS	54				
55	SPARE		1	20			A	1200	[E]	1	20		PANORAMIC X-RAY	56				
57	SPARE		1	20			B	1200	[E]	1	20		ICAT X-RAY	58				
59	SPARE		1	20			C			1	20		SPARE	60				
61	SPACE						A			1	20		SPARE	62				
63	SPACE						B			1	20		SPARE	64				
65	SPACE						C						SPACE	66				
67	SPACE						A						SPACE	68				
69	SPACE						B						SPACE	70				
71	SPACE						C						SPACE	72				
73	SPACE						A						SPACE	74				
75	SPACE						B						SPACE	76				
77	SPACE						C						SPACE	78				
79	SPACE						A						SPACE	80				
81	SPACE						B						SPACE	82				
83	SPACE						C						SPACE	84				
CB Type legend: GFCI: 5mA ground fault circuit interrupter																		
Load Classification:		Connected Load		Demand Factor		Estimated Demand		Panel Summary:				A	B	C				
[E] Equipment		34,744 VA		100%		34,744 VA		Total Connected Load:				53.2 KVA		18,838	18,342	17,056	VA	
[R] Receptacle		10,000 VA		100%		10,000 VA		Total Estimated Demand:				51.2 KVA		18,120	17,466	15,663	VA	
Receptacle over 10KVA		5,480 VA		50%		2,740 VA		Total Connected Amps:				147.8 A		156.9	152.7	142.0	A	
[L] Lighting		3,012 VA		125%		3,765 VA		Total Estimated Demand Amps:				142.3 A		150.9	145.4	130.4	A	
[LM] Largest Motor		0 VA		125%		0 VA		Load Notes: N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER. N2. NEW LOAD ON EXISTING CIRCUIT BREAKER. N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER TYPE AND AIC RATING TO MATCH EXISTING.										
[M] Motor		0 VA		100%		0 VA												
[KE] Kitchen Equipment		0 VA		100%		0 VA												
[S] Subfeed Panels		0 VA		100%		0 VA												
[EV] EV Chargers		0 VA		125%		0 VA												
[A] Appliances		0 VA		100%		0 VA												
Totals:		53,236 VA				51,249 VA												

Existing Panel 'H3'															
Location: ELECTRICAL ROOM 302							Volts: 480			A.I.C. Rating: EXISTING					
Supply From: 1000A DISTRIBUTION PANEL							Phase: 3			Mains Type: Copper					
Mounting: Surface							Wires: 4			Mains Rating: 200 A					
Enclosure: NEMA 1							Mains Type: MLO								
Panel notes:															
CKT #	Load Description	Circuit Breaker			Load		BUS	Load		Circuit Breaker			Load Description	CKT #	
		Type	Trip	Pole(s)	Class	VA		VA	Class	Pole(s)	Trip	Type			
1	VAV-3-1 (N1)		25	3	[E]	5762	A	5762	[E]	3	25		VAV-3-2 (N1)	2	
3	/		/	/	[E]	5762	B	5762	[E]	/	/	/	/	4	
5	/		/	/	[E]	5762	C	5762	[E]	/	/	/	/	6	
7	VAV-3-3 (N1)		25	3	[E]	5762	A	5762	[E]	3	25		VAV-3-4 (N1)	8	
9	/		/	/	[E]	5762	B	5762	[E]	/	/	/	/	10	
11	/		/	/	[E]	5762	C	5762	[E]	/	/	/	/	12	
13	COMMON AREA LIGHTS		20	1	[L]	364	A	18120	[S]	3	125		75KVA TRANSFORMER	14	
15	SPACE						B	17466	[S]	/	/	/	/	16	
17	SPACE						C	15663	[S]	/	/	/	/	18	
19	SPACE						A						SPACE	20	
21	SPACE						B						SPACE	22	
23	SPACE						C						SPACE	24	
25	SPACE						A						SPACE	26	
27	SPACE						B						SPACE	28	
29	SPACE						C						SPACE	30	
31	SPACE						A						SPACE	32	
33	SPACE						B						SPACE	34	
35	SPACE						C						SPACE	36	
37	SPACE						A						SPACE	38	
39	SPACE						B						SPACE	40	
41	SPACE						C						SPACE	42	
CB Type legend: Not used.															
Load Classification:		Connected Load		Demand Factor		Estimated Demand		Panel Summary:				A	B	C	
[E] Equipment		69,139 VA		100%		69,139 VA		Total Connected Load: 120.8 KVA Total Estimated Demand: 120.8 KVA Total Connected Amps: 145.2 A Total Estimated Demand Amps: 145.4 A				41,530	40,512	38,710	VA
[R] Receptacle		0 VA		100%		0 VA						41,621	40,512	38,710	VA
Receptacle over 10KVA		0 VA		50%		0 VA						149.9	146.2	139.7	A
[L] Lighting		364 VA		125%		455 VA									
[LM] Largest Motor		0 VA		125%		0 VA									
[M] Motor		0 VA		100%		0 VA									
[KE] Kitchen Equipment		0 VA		100%		0 VA									
[S] Subfeed Panels		51,249 VA		100%		51,249 VA									
[EV] EV Chargers		0 VA		125%		0 VA									
[A] Appliances		0 VA		100%		0 VA									
Totals:		120,752 VA				120,843 VA									
Load Notes: N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER. N2. NEW LOAD ON EXISTING CIRCUIT BREAKER. N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER TYPE AND AIC RATING TO MATCH EXISTING.															