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PROJECT NO.: 16-093  
DATE: 6.10.16  
DRAWN BY: S.W.S.  
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DATE:

SPECIFICATIONS		EXISTING		PANEL-MDP										MAINS		200A	
CAPACITY		200 AMPS		LOCATION										EXTERIOR WALL			
VOLTAGE:		120/240V, 1PH, 3WIRE		MOUNTING										SURFACE			
AMPS	POLE	TOTAL VA	COND. SIZE	WIRE SIZE	GRD. SIZE	DESCRIPTION	CIRC. No.	CIRC. No.	DESCRIPTION	GRD. SIZE	WIRE SIZE	COND. SIZE	TOTAL VA	POLE	AMPS		
50	2	18000	EX	EX	EX	AIRJ	1	2	DRYER***	10	10	12"	5000	2	30		
20	2	2400	EX	EX	EX	SPRINKLER PUMP	5	6	WASHER	EX	EX	EX	1500	1	20		
20	2	1200	EX	EX	EX	PORCH RECEP	7	8	PORCH RECEP	EX	EX	EX	720	1	20		
20	1	1200	12"	12	12	SIGNS***	9	10	SPACE								
20	1	360	12"	12	12	TIME CLOCK***	11	12	FLOOD LIGHTS	EX	EX	EX	600	1	20		
20	1	720	EX	EX	EX	SOUTH WALL RECEP	13	14	EAST WALL RECEP	EX	EX	EX	720	1	20		
40	2	*	EX	EX	EX	ACCU	15	16	SUB PANEL-A	8	3	1-1/4"	10,200	2	100		
40	2	*	EX	EX	EX	OUTSIDE RECEP	17	18	SPACE	8	3	1-1/4"	2	100			
20	1	360	EX	EX	EX	SPACE	19	20	SPACE								
80	2	12000	1-1/4"	2	6	SPACE	21	22	SPACE								
80	2		1-1/4"	2	6	SPACE	23	24	SPACE								
						SPACE	25	26	SPACE								
						SPACE	27	28	SPACE								
						SPACE	29	30	SPACE								
						SPACE	31	32	SPACE								
						SPACE	33	34	SPACE								
						SPACE	35	36	SPACE								
						SPACE	37	38	SPACE								
						SPACE	39	40	SPACE								
						SPACE	41	42	SPACE								
SUBTOT.		27040 VA				TOTAL LOAD =			54,780 VA				SUBTOT.	27740 VA			
<b>PANEL-MDP DEMAND LOAD CALCULATIONS</b>																	
TOTAL RECEPT. LOAD		26,310 VA															
RECEP. 1st 10,000 VA @ 100%	10,000	@100%	10,000	VA													
REST @ 50%	16,310	@50%	8,155	VA													
LIGHTING LOAD @ 125%	3,350	@125%	4,188	VA													
LARGEST MOTOR @125%	0	@125%	0	VA													
OTHER MOTORS @ 100%	0	@100%	0	VA													
AIR CONDITIONERS @ 100%	10,000	@100%	10,000	VA													
KITCHEN EQUIPMENT @ 65%	0	@65%	0	VA													
REST OF ALL OTHER LOADS @ 100%	14,400	@100%	14,400	VA													
TOTAL LOAD =		46,743 VA															
CURRENT PER PHASE		TOTAL LOAD (VA) / 240															
		= 195 AMPS															
* NON SIMULTANEOUS LOAD VERIFY ALL EQUIPMENT LOAD AND BREAKER AND WIRE SIZES PRIOR TO INSTALLATIONS																	

SPECIFICATIONS		SQUARE D QO OR EQAL		PANEL-A										MAINS		M.E.O	
CAPACITY		100 AMPS		LOCATION										RADIOLOGY			
VOLTAGE:		120/240V, 1PH, 3WIRE		MOUNTING										SURFACE			
AMPS	POLE	TOTAL VA	COND. SIZE	WIRE SIZE	GRD. SIZE	DESCRIPTION	CIRC. No.	CIRC. No.	DESCRIPTION	GRD. SIZE	WIRE SIZE	COND. SIZE	TOTAL VA	POLE	AMPS		
20	1	720	12"	12	12	RECEPTION RECEP	1	2	WATER HEATER	10	10	12"	4500	2	25		
20	1	450	12"	12	12	RECEPTION LIGHTS	3	4	LAB TABLE RECEP	12	12	12"	720	1	20		
20	1	650	12"	12	12	EXAM ROOM LIGHTS	5	6	LAB TABLE RECEP	12	12	12"	720	1	20		
20	1	760	12"	12	12	EXAM#1 ROOM RECEP	7	8	LAB TABLE RECEP	12	12	12"	720	1	20		
20	1	760	12"	12	12	EXAM#2 ROOM RECEP	9	10	LAB TABLE RECEP	12	12	12"	720	1	20		
20	1	760	12"	12	12	EXAM#3 ROOM RECEP	11	12	SYBERRY RECEP	12	12	12"	900	1	20		
20	1	1440	12"	12	12	OFFICE BREAK ROOM RECEP	13	14	LAB RADIOLOGY SURGERY LIGHT	12	12	12"	900	1	20		
20	1	760	12"	12	12	RADIOLOGY RECEP	15	16	REFRIGERATOR	12	12	12"	1500	1	20		
20	1	1080	12"	12	12	LAB RECEP	17	18	COUNTER RECEP	12	12	12"	1500	1	20		
20	1	860	12"	12	12	RECEP LIGHT ATTIC	19	20	SPACE								
						SPACE	21	22	SPACE								
						SPACE	23	24	SPACE								
						SPACE	25	26	SPACE								
						SPACE	27	28	SPACE								
						SPACE	29	30	SPACE								
SUBTOT.		7740 VA				TOTAL LOAD =			19,200 VA				SUBTOT.	11460 VA			
<b>PANEL-A DEMAND LOAD CALCULATIONS</b>																	
TOTAL RECEPT. LOAD		17,850 VA															
RECEP. 1st 10,000 VA @ 100%	10,000	@100%	10,000	VA													
REST @ 50%	7,650	@50%	3,825	VA													
LIGHTING LOAD @ 125%	1,550	@125%	1,938	VA													
LARGEST MOTOR @125%	0	@125%	0	VA													
OTHER MOTORS @ 100%	0	@100%	0	VA													
AIR CONDITIONERS @ 100%	0	@100%	0	VA													
KITCHEN EQUIPMENT @ 65%	0	@65%	0	VA													
REST OF ALL OTHER LOADS @ 100%	0	@100%	0	VA													
TOTAL LOAD =		15,783 VA															
CURRENT PER PHASE		TOTAL LOAD (VA) / 240															
		= 66 AMPS															
* NON SIMULTANEOUS LOAD VERIFY ALL EQUIPMENT LOAD AND BREAKER AND WIRE SIZES PRIOR TO INSTALLATIONS																	

