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SWITCHBOARD SCHEDULE - 'MSB'

CIRCUIT #	CIRCUIT BREAKER	WIRE LOGS	PHASE A				PHASE B				PHASE C				
			LINE	RECT	MTRN	A/C	MTRN	A/C	MTRN	A/C	MTRN	A/C	MTRN	A/C	
1	400	3	300	3"	1 1/4"	100	100	100	0.0	0.0	0.0	24.1	0.0	0.0	40.4
						0.0	0.0	0.0	41.8	0.0	0.0	0.0	0.0	0.0	39.6
						0.0	0.0	0.0	11.9	0.0	0.0	0.0	0.0	0.0	36.4
2	1000	3	300	3"	1 1/4"	100	100	100	0.0	0.0	0.0	58.8	0.0	0.0	58.8
						0.0	0.0	0.0	52.6	0.0	0.0	0.0	0.0	0.0	53.0
						0.0	0.0	0.0	39.6	0.0	0.0	0.0	0.0	0.0	46.7
3	200	3	200	3"	1 1/4"	100	100	100	5.8	0.0	0.0	0.0	0.0	0.0	3.2
						4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
						0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
4	100	3	100	3"	1 1/4"	100	100	100	3.8	0.0	0.0	0.0	0.0	0.0	0.0
						1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	100	3	100	3"	1 1/4"	100	100	100	0.7	0.0	0.0	0.0	0.0	0.0	0.0
						0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	100	3	100	3"	1 1/4"	100	100	100	0.7	0.0	0.0	0.0	0.0	0.0	0.0
						0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	200	3	200	3"	1 1/4"	100	100	100	0.7	1.4	0.0	0.0	0.0	0.0	5.0
						0.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
						0.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
8	200	3	200	3"	1 1/4"	100	100	100	0.2	0.0	0.0	0.0	0.0	0.0	2.5
						0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
						0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
9	100	3	100	3"	1 1/4"	100	100	100	0.0	0.8	0.0	0.0	0.0	0.0	1.1
						0.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
						1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
10	200	3	200	3"	1 1/4"	100	100	100	0.0	1.0	0.0	0.0	0.0	0.0	10.6
						0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
						0.0	0.7	1.3	0.0	1.0	0.0	1.0	0.0	0.5	0.5
11	200	3	200	3"	1 1/4"	100	100	100	0.0	0.8	0.0	0.0	0.0	0.0	0.0
						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2
						0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0
12	100	3	100	3"	1 1/4"	100	100	100	0.0	0.0	0.0	0.0	0.0	0.0	0.1
						0.0	0.0	0.0	11.8	0.0	0.0	0.0	0.0	0.0	0.0
						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4
13	200	3	200	3"	1 1/4"	100	100	100	1.4	4.2	0.0	0.0	0.0	0.0	0.8
						1.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0
						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
14	200	3	200	3"	1 1/4"	100	100	100	0.0	1.1	0.0	1.2	2.3	0.0	1.9
						0.0	0.8	1.2	0.0	2.3	0.0	0.9	1.8	0.0	0.0
15	200	3	200	3"	1 1/4"	100	100	100	9.7	0.0	0.0	0.0	0.0	0.0	9.7
						9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7
16	200	3	200	3"	1 1/4"	100	100	100	9.7	0.0	0.0	0.0	0.0	0.0	9.7
						9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7
17	100	3	100	3"	1 1/4"	100	100	100	6.5	0.0	0.0	0.0	0.0	6.5	
						6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	
18	200	3	200	3"	1 1/4"	100	100	100	19.2	0.0	0.0	0.0	0.0	19.2	
						19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2	
19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
CONNECTED LOAD (KVA)						654.5						312.4			
DEMAND LOAD (KVA)						518.2		PHASE A	265.4		PHASE B	118.4		PHASE C	134.4
ENGINEERED LOAD (KVA)						283.5						283.5			
REMAINING LOAD (KVA)						286.6						286.6			
CAPACITY REQUIREMENTS						268.8						268.8			
NOTES: 1. ALL CIRCUITS TO BE ENCLOSED IN RATED, 1" WALL SWITCHBOARD ON 3" HIGH CONCRETE PAD (LENGTH AND WIDTH EXCEEDING BASE BY 3" ON ALL SIDES)															

MSB' DEMAND CALCS

LIGHTING	28.38	KVAX 125 %	=	41.1 KVA
RECEPTAC TOTAL	36.38	KVA		
HEAT	10.00	KVAX 100 %	=	10.0 KVA
REMAIN	26.38	KVAX 50 %	=	13.2 KVA
MOTORS	69.20	KVAX 100 %	=	69.2 KVA
A/C	343.56	KVAX 100 %	=	343.6 KVA
HEATING	43.48	KVAX 100 %	=	43.5 KVA
LOCKED-OUT LOAD	---	KVAX 100 %	=	0.0 KVA
KITCHEN	32.37	KVAX 65 %	=	21.0 KVA
MISCELLANEOUS	376.52	KVAX 100 %	=	376.5 KVA
TOTAL				2866.4 amps @ 918.2 KVA

MSB' AMPACITY CALCS

LIGHTING	28.38	KVAX 125 %	=	41.1 KVA
RECEPTAC TOTAL	36.38	KVA		
HEAT	10.00	KVAX 100 %	=	10.0 KVA
REMAIN	26.38	KVAX 50 %	=	13.2 KVA
MOTORS	69.20	KVAX 100 %	=	69.2 KVA
LARGES	15.00	KVAX 125 %	=	18.8 KVA
REMAIN	54.20	KVAX 100 %	=	54.2 KVA
A/C	343.56	KVAX 100 %	=	343.6 KVA
HEATING	43.48	KVAX 100 %	=	43.5 KVA
LOCKED-OUT LOAD	---	KVAX 100 %	=	0.0 KVA
KITCHEN	32.37	KVAX 65 %	=	21.0 KVA
MISCELLANEOUS	376.52	KVAX 100 %	=	376.5 KVA
TOTAL				2858.8 amps @ 921.9 KVA

DISTRIBUTION PANEL SCHEDULE - 'GDP1'

CIRCUIT #	CIRCUIT BREAKER	WIRE LOGS	PHASE A				PHASE B				PHASE C				
			LINE	RECT	MTRN	A/C	MTRN	A/C	MTRN	A/C	MTRN	A/C	MTRN	A/C	
1	200	3	200	3"	1 1/4"	100	100	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	400	3	400	3"	1 1/4"	100	100	100	0.0	0.0	0.0	16.5	0.0	0.0	17.2
						0.0	0.0	0.0	0.0	0.0	0.0	16.7	0.0	0.0	16.9
						0.0	0.0	0.0	0.0	0.0	0.0	13.2	0.0	0.0	17.4
3	200	3	200	3"	1 1/4"	100	100	100	0.0	0.0	0.0	6.0	0.0	0.0	6.5
						0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	6.5
						0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	7.9
4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5	200	3	200	3"	1 1/4"	100	100	100	0.0	0.0	0.0	2.2	0.0	0.0	4.6
						0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	2.2
						0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	2.5
6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
CONNECTED LOAD (KVA)						232.1						232.1			
DEMAND LOAD (KVA)						232.1		PHASE A	147.2		PHASE B	74.9		PHASE C	110.0
CONNECTED LOAD (AMP)						616.4						616.4			
DEMAND LOAD (AMP)						616.4						616.4			
NOTES:															

GDP1' DEMAND CALCS

LIGHTING	0.00	KVAX 125 %	=	0.0 KVA
RECEPTAC TOTAL	6.00	KVA		
HEAT	10.00	KVAX 100 %	=	10.0 KVA
REMAIN	6.00	KVAX 50 %	=	3.0 KVA
MOTORS	0.00	KVAX 100 %	=	0.0 KVA
A/C	197.80	KVAX 100 %	=	197.8 KVA
HEATING	0.00	KVAX 100 %	=	0.0 KVA
LOCKED-OUT LOAD	---	KVAX 100 %	=	0.0 KVA
KITCHEN	0.00	KVAX 65 %	=	0.0 KVA
MISCELLANEOUS	114.28	KVAX 100 %	=	114.3 KVA