



Electrical B1 Schedule

VOLTS/PHASE/WIRE: 120/240/1/3		PANEL SIZE: 600 A		MAIN TYPE & SIZE: 600 A MCB			CABINET: SURFACE		MIN SOC: 65000		FED FROM: -----	
CIRCUIT NO.	AREA SERVED	TRIP AMPS	NO. POLES	PHASE LOAD VA			NO. POLES	TRIP AMPS	AREA SERVED	CIRCUIT NO.		
				A	B	C						
1,3	C-3	20	2	1132	1132	0						
5,7	WELDING REC	40	2	3800	3800	0	2	20	C-4	2,4		
9,11	WELDING REC	40	2	3800	3800	0	2	40	WELDING REC	6,8		
13,15	AIR COMPRESSOR	60	2	3800	3800	0	2	40	WELDING REC	10,12		
17,19	PANEL A	225	2	14334	15784	0	2	225	PANEL B2	14,16		
21	IR-1	15	1	576	0	0	2	30	HEAT TRACE	18,20		
23	IR-3	15	1	576	0	0	1	15	IR-2	22		
25	IR-5	15	1	576	0	0	1	15	IR-4	24		
27	F-4	15	1	120	0	0	1	15	F-3	26		
29	EF-5	15	1	120	0	0	1	15	EF-4	28		
31	EF-7	15	1	686	0	0	1	15	EF-6	30		
33	WES-1 (LEFT)	25	1	1920	0	0	1	25	WES-1 (RIGHT)	34		
35	RM 107 O/H DOOR MOTOR	20	1	0	1176	0	1	20	RM 107 O/H DOOR MOTOR	36		
37	RM 108 O/H DOOR MOTOR	20	1	1176	0	0	1	20	RM 109 O/H DOOR MOTOR	38		
39	RM 110 O/H DOOR MOTOR	20	1	1176	0	0	1	20	RM 110 O/H DOOR MOTOR	40		
41	GENERATOR BATTERY CHARGER	20	1	0	1176	0	1	20	SPARE	42		
43,45	GENERATOR HEATER	20	2	0	0	0	2	30	SPARE	44,46		
47	SPARE	20	1	0	0	0	1	20	SPARE	48		
49	SPARE	20	1	0	0	0	1	20	SPARE	50		
51	SPARE	20	1	0	0	0	1	20	SPARE	52		
53	SPARE	20	1	0	0	0	1	20	SPARE	54		
CONNECTED LOAD				67285	64412	0	131.7 KVA					

LOAD CATEGORY	CONN. LOAD	DEMAND FACTOR	EST. LOAD
Equipment	45.1	1.00	45.1
Lighting	12.8	1.25	15.9
Receptacles (0 - 10 KVA)	10.0	1.00	10.0
Receptacles (Over 10 KVA)	63.9	0.50	31.9
<b>TOTAL</b>	<b>131.7</b>		<b>102.9</b>

Electrical B2 Schedule

VOLTS/PHASE/WIRE: 120/240/1/3		PANEL SIZE: 225 A		MAIN TYPE & SIZE: 225 A MLO			CABINET: SURFACE		MIN SOC: 10000		FED FROM: B1	
CIRCUIT NO.	AREA SERVED	TRIP AMPS	NO. POLES	PHASE LOAD VA			NO. POLES	TRIP AMPS	AREA SERVED	CIRCUIT NO.		
				A	B	C						
1	RM 103 REC	20	1	1080	0	0			RM 103 REC	2		
3	RM 103 REC	20	1	1080	0	0	1	20	RM 103 REC	4		
5	RM 103 REC	20	1	1080	0	0	1	20	RM 100-102, EXTERIOR REC	6		
7	RM 104 REFRIGERATOR REC	20	1	720	0	0	1	20	RM 104 REC	8		
9	RM 104 MICROWAVE REC	20	1	1100	0	0	1	20	RM 104 REC	10		
11	RM 104, 105, EXTERIOR REC	20	1	1100	0	0	1	20	RM 104 COFFEE POT REC	12		
13	RM 104 WATER FOUNTAIN REC	20	1	500	680	0	1	20	RM 104, 106 REC	14		
15	RM 106, 107 REC	20	1	1080	0	0	1	20	RM 106 REC	16		
17	RM 109 REC	20	1	540	0	0	1	20	RM 107 REC	18		
19	RM 108, 109 REC	20	1	540	0	0	1	20	RM 107, 109 REC	20		
21	RM 110, EXTERIOR REC	20	1	540	0	0	1	20	RM 109 REC	22		
23	RM 108, EXTERIOR REC	20	1	540	0	0	1	20	RM 108, 110, EXTERIOR REC	24		
25	RM 108, EXTERIOR REC	20	1	540	0	0	1	20	RM 108 REC	26		
27	RM 107 WH-2 REC	20	1	180	0	0	1	20	RM 107 WASHER REC	28		
29	RM 108 L-2 POWER	20	1	0	180	0	1	20	RM 108 WH-3 REC	30		
31	MEZZANINE DBF-1 REC	20	1	360	0	0	1	20	RM 107 DEMARK REC	32		
33	OPEN BAY (ALTERNATE) REC	20	1	540	0	0	1	20	MEZZANINE REC	34		
35	RM 100-106 LIGHTS	20	1	540	0	0	1	20	OPEN BAY (ALTERNATE) REC	36		
37	RM 107, MEZZANINE LIGHTS	20	1	1266	0	0	1	20	RM 108 LIGHTS	38		
39	RM 110 AND ALTERNATE LIGHTS	20	1	1008	0	0	1	20	RM 109 LIGHTS	40		
41	SPARE	20	1	0	1588	0	1	20	EXTERIOR LIGHTS	42		
43	SPARE	20	1	0	0	0	1	20	SPARE	44		
45	SPARE	20	1	0	0	0	1	20	SPARE	46		
47	SPARE	20	1	0	0	0	1	20	SPARE	48		
49	SPARE	20	1	0	0	0	1	20	SPARE	50		
51	SPARE	20	1	0	0	0	1	20	SPARE	52		
53	SPARE	20	1	0	0	0	1	20	SPARE	54		
CONNECTED LOAD				14334	15784	0	30.1 KVA					

LOAD CATEGORY	CONN. LOAD	DEMAND FACTOR	EST. LOAD
Lighting	7.8	1.25	9.7
Receptacles (0 - 10 KVA)	10.0	1.00	10.0
Receptacles (Over 10 KVA)	12.4	0.50	6.2
<b>TOTAL</b>	<b>30.1</b>		<b>25.9</b>

Electrical A Schedule

VOLTS/PHASE/WIRE: 120/240/1/3		PANEL SIZE: 225 A		MAIN TYPE & SIZE: 225 A MCB			CABINET: SURFACE		MIN SOC: 10000		FED FROM: B1	
CIRCUIT NO.	AREA SERVED	TRIP AMPS	NO. POLES	PHASE LOAD VA			NO. POLES	TRIP AMPS	AREA SERVED	CIRCUIT NO.		
				A	B	C						
1,3	C-1	40	2	2313	2313	0						
5,7	HEAT TRACE	30	2	2313	2313	0	2	35	C-2	2,4		
9	F-1	20	1	0	0	0	2	20	SPARE	6,8		
11	EF-1	15	1	1248	0	0	1	15	F-2	10		
13	EF-3	15	1	1056	0	0	1	15	EF-2	12		
15	RM 100, 101, EXTERIOR REC	20	1	0	29	0	1	15	EF-2	14		
17	RM 118 REC	20	1	18	0	0	1	20	RM 100 WATER FOUNTAIN REC	16		
19	RM 118 COPIER REC	20	1	500	0	0	1	20	RM 118 REC	18		
21	RM 113-116 REC	20	1	0	1080	0	1	20	RM 118 REC	20		
23	RM 113 REC	20	1	0	880	0	1	20	RM 114 REC	22		
25	RM 111 REC	20	1	0	360	0	1	20	RM 107, 111, EXTERIOR REC	24		
27	RM 110 REC	20	1	540	0	0	1	20	RM 111 REC	26		
29	RM 108 MICROWAVE REC	20	1	0	360	0	1	20	RM 108 REFRIGERATOR REC	28		
31	RM 108 COFFEE POT REC	20	1	0	180	0	1	20	RM 108 REC	30		
33	RM 106, 107, 109, 112 REC	20	1	1100	0	0	1	20	RM 108 REC	32		
35	RM 105 REC	20	1	0	540	0	1	20	RM 105 REC	34		
37	RM 103 REC	20	1	0	900	0	1	20	RM 100, 103, 104 REC	36		
39	RM 102 REC	20	1	0	1080	0	1	20	RM 102 REC	38		
41	RM 100, 116, 117 REC	20	1	720	0	0	1	20	RM 102 REC	40		
43	LIGHTS	20	1	0	720	0	1	20	RM 112 PHONE BOARD REC	42		
45	LIGHTS	20	1	360	0	0	1	20	LIGHTS	44		
47	RM 100 FIREPLACE REC	20	1	0	1150	0	1	20	LIGHTS	46		
49	SITE LIGHT - SIGN AND FLAGPOLES	20	1	0	1334	0	1	15	EXTERIOR BUILDING LIGHTS	48		
51	SPARE	20	1	876	0	0	1	20	RM 118 OVERHEAD DOOR POWER	50		
53	SPARE	20	1	0	864	0	1	20	SPARE	52		
CONNECTED LOAD				20931	18192	0	39.1 KVA					

LOAD CATEGORY	CONN. LOAD	DEMAND FACTOR	EST. LOAD
Equipment	13.0	1.00	13.0
Lighting	5.0	1.25	6.2
Receptacles (0 - 10 KVA)	10.0	1.00	10.0
Receptacles (Over 10 KVA)	11.1	0.50	5.6
<b>TOTAL</b>	<b>39.1</b>		<b>34.8</b>

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**castleberry megregor swinford ARCHITECTS**  
 BENTON GAS SYSTEM  
 Project No. 10580

**E-13**  
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 DATE 10/01/10