

This drawing and design is the exclusive property of Richard C. Lambert Consultants, LLC and may not be reproduced or used without authorization and written permission. © 2007

RCLC
Project Number: 0687

Date Issued: 05/15/07
Drawn By: EDA
Checked By: EDA

Revisions:

ST. TAMMANY PARISH SHERIFF'S OFFICE
BROWNSWITCH ROAD
SLIDELL, LOUISIANA

CONSTRUCTION DOCUMENTS

PANELS

Sheet Number:

E5.0

PANEL EM 480 Volts 3 Phase 3 Wire 400A MAIN LUGS ONLY 400A Bus Rating													
BRANCH BREAKERS 22 kAIC Minimum Rating													
LOAD DESCRIPTION	AMPERE RATING	POLE	CIRC NO.	LEFT PHASE VA LOADING	RIGHT PHASE VA LOADING	CIRC NO.	POLE	AMPERE RATING	LOAD DESCRIPTION	AMPERE RATING	POLE		
VAV 1A, 2A, 3B	20	3	1	4333	-	3047	-	2	3	20	AHU 1		
			3	-	4333	-	3047	-	4				
			5	0	4334	-	3047	-	6				
VAV 9B, 10B, 13B, 14B	30	3	1	5834	-	5817	-	8	3	40	AHU 2		
			9	-	5833	-	5817	-	10				
			11	-	5833	-	5817	-	12				
VAV 1C, 9C, 10C, 11C	30	3	13	6166	-	5817	-	14	3	40	AHU 3		
			15	-	6167	-	5817	-	16				
			17	-	6166	-	5817	-	18				
VAV 12C, 13C, 14C, 15C	30	3	19	5834	-	15068	-	20	3	80	AHU 4		
			21	-	5833	-	15068	-	22				
			23	-	5833	-	15068	-	24				
VAV 16C, 17C, 18C	30	3	25	5833	-	1163	-	26	3	20	ACCU 4		
			27	-	5834	-	1163	-	28				
			29	-	5833	-	1163	-	30				
FI	30	3	31	3878	-	1666	-	32	3	20	VAV 10C BRANCH HEATER		
			33	-	3878	-	1666	-	34				
			35	-	3878	-	1666	-	36				
FI	30	3	37	3878	-	-	-	38	3	20			
			39	-	3878	-	-	40					
			41	-	3878	-	-	42					
PHASE LOADING SUB-TOTALS				35756	35756	35756	32578	32578	32578				
PHASE LOADING VA TOTALS				68334	68333	67500							
Equipment	Connected Load VA	% D.F.	Est. Max. Demand VA	COMMENTS:									
VAV BOXES	88999	65	57849	PROVIDE LUGS TO ACCOMMODATE CONDUCTOR SIZING NEW PANEL SURFACE MOUNTED NEMA 1 LOCKABLE COVER BOLT-ON BREAKERS									
AHU	92736	100	92736										
PUMPS	23268	100	23268										
Total Com. Load				205003									
Spare Capacity				-									
Total EMD				-	113253 VA (203A)								

PANEL M 480 Volts 3 Phase 3 Wire 100A MAIN LUGS ONLY 100A Bus Rating													
BRANCH BREAKERS 22 kAIC Minimum Rating													
LOAD DESCRIPTION	AMPERE RATING	POLE	CIRC NO.	LEFT PHASE VA LOADING	RIGHT PHASE VA LOADING	CIRC NO.	POLE	AMPERE RATING	LOAD DESCRIPTION	AMPERE RATING	POLE		
VAV 3A, 5A, 6A, 7A, 1B	30	3	1	6833	-	-	-	2	3	20	PROVISIONS		
			3	-	6833	-	-	4					
			5	-	6834	-	-	6					
VAV 2B, 5B	20	3	7	4500	-	-	-	8	3	20	PROVISIONS		
			9	-	4500	-	-	10					
			11	-	4500	-	-	12					
VAV 8B, 11B, 12B, 15B	30	3	13	4833	-	-	-	14	3	40	PROVISIONS		
			15	-	4834	-	-	16					
			17	-	4833	-	-	18					
VAV 2C, 3C, 4C, 5C	30	3	19	5834	-	-	-	20	3	80	PROVISIONS		
			21	-	5833	-	-	22					
			23	-	5833	-	-	24					
VAV 6C, 7C, 8C	20	3	25	2500	-	-	-	26	3	20	PROVISIONS		
			27	-	2500	-	-	28					
			29	-	2500	-	-	30					
PROVISIONS			31	-	-	-	-	32					
PROVISIONS			33	-	-	-	-	34					
PROVISIONS			35	-	-	-	-	36					
PROVISIONS			37	-	-	-	-	38					
PROVISIONS			39	-	-	-	-	40					
PROVISIONS			41	-	-	-	-	42					
PHASE LOADING SUB-TOTALS				24500	24500	24500							
PHASE LOADING VA TOTALS				24500	24500	24500							
Equipment	Connected Load VA	% D.F.	Est. Max. Demand VA	COMMENTS:									
VAV BOXES	13500	65	41175	PROVIDE LUGS TO ACCOMMODATE CONDUCTOR SIZING NEW PANEL SURFACE MOUNTED NEMA 1 LOCKABLE COVER BOLT-ON BREAKERS									
Total Com. Load				13500									
Spare Capacity				-									
Total EMD				-	41175 VA (58A)								

PANEL HI 480/277 Volts 3 Phase 4 Wire 200A MAIN LUGS ONLY 200A Bus Rating													
BRANCH BREAKERS 22 kAIC Minimum Rating													
LOAD DESCRIPTION	AMPERE RATING	POLE	CIRC NO.	LEFT PHASE VA LOADING	RIGHT PHASE VA LOADING	CIRC NO.	POLE	AMPERE RATING	LOAD DESCRIPTION	AMPERE RATING	POLE		
LIGHTING	20	1	1	3120	-	-	-	2	2	20	SITE LIGHTING		
LIGHTING	20	1	3	-	2895	-	-	4	4	20	SITE LIGHTING		
LIGHTING	20	1	5	-	2250	-	-	6	2	20	SITE LIGHTING		
LIGHTING	20	1	7	1445	-	-	-	8	2	20	SITE LIGHTING		
LIGHTING	20	1	9	-	1900	-	-	10	2	20	SITE LIGHTING		
LIGHTING	20	1	11	-	1800	-	-	12	2	20	SITE LIGHTING		
LIGHTING	20	1	13	3750	-	-	-	14	2	20	SITE LIGHTING		
LIGHTING	20	1	15	-	2250	-	-	16	2	20	PROVISIONS		
LIGHTING	20	1	17	-	1905	-	-	18			PROVISIONS		
LIGHTING	20	1	19	3190	-	-	-	20			PROVISIONS		
LIGHTING	20	1	21	-	3190	-	-	22			PROVISIONS		
LIGHTING	20	1	23	-	-	-	-	24			PROVISIONS		
LIGHTING	20	1	25	2650	-	-	-	26			PROVISIONS		
LIGHTING	20	1	27	-	3520	-	-	28			PROVISIONS		
LIGHTING	20	1	29	-	-	-	-	30			PROVISIONS		
LIGHTING	20	1	31	2250	-	-	-	32			PROVISIONS		
PROVISIONS			33	-	-	-	-	34			PROVISIONS		
PROVISIONS			35	-	-	-	-	36			PROVISIONS		
PROVISIONS			37	-	-	-	-	38			PROVISIONS		
PROVISIONS			39	-	-	-	-	40			PROVISIONS		
PROVISIONS			41	-	-	-	-	42			PROVISIONS		
PHASE LOADING SUB-TOTALS				16475	14755	11005	6550	4988	4438				
PHASE LOADING VA TOTALS				23025	19143	15543							
Equipment	Connected Load VA	% D.F.	Est. Max. Demand VA	COMMENTS:									
LIGHTING	5831	100	5831	PROVIDE LUGS TO ACCOMMODATE CONDUCTOR SIZING NEW PANEL SURFACE MOUNTED NEMA 1 LOCKABLE COVER BOLT-ON BREAKERS									
Total Com. Load				5831									
Spare Capacity				-									
Total EMD				-	5831 VA (70A)								

PANEL LI 208/120 Volts 3 Phase 4 Wire 150A MAIN CIRCUIT BREAKER 200A Bus Rating													
BRANCH BREAKERS 10 kAIC Minimum Rating													
LOAD DESCRIPTION	AMPERE RATING	POLE	CIRC NO.	LEFT PHASE VA LOADING	RIGHT PHASE VA LOADING	CIRC NO.	POLE	AMPERE RATING	LOAD DESCRIPTION	AMPERE RATING	POLE		
OUTLETS	20	1	1	0	-	0	-	2	1	20	BATH OUTLETS		
OUTLETS	20	1	3	-	1080	-	-	4	1	20	HAND DRYER		
OUTLETS	20	1	5	-	1080	-	-	6	1	20	HAND DRYER		
OUTLETS	20	1	7	1440	-	0	-	8	1	20	CONV. OUTLETS		
OUTLETS	20	1	9	-	1620	-	-	10	1	20	FURNITURE OUTLETS		
OUTLETS	20	1	11	-	360	-	-	12	1	20	FURNITURE OUTLETS		
COUNTER OUTLET	20	1	13	1200	-	800	-	14	1	20	FURNITURE OUTLETS		
COUNTER OUTLET	20	1	15	-	1200	-	-	16	1	20	FURNITURE OUTLETS		
OUTLET	20	1	17	-	100	-	-	18	1	20	FURNITURE OUTLETS		
OUTLET	20	1	19	1080	-	800	-	20	1	20	FURNITURE OUTLETS		
COPIER	30	2	21	-	500	-	-	22	1	20	FURNITURE OUTLETS		
COUNTER OUTLET	20	1	23	600	-	500	-	24	1	20	FURNITURE OUTLETS		
COUNTER OUTLET	20	1	25	-	600	-	-	26	1	20	OUTLETS		
COUNTER OUTLET	20	1	27	-	600	-	-	28	1	20	FURNITURE OUTLETS		
COUNTER OUTLET	20	1	29	-	800	-	-	30	1	20	FURNITURE OUTLETS		
COUNTER OUTLET	20	1	31	800	-	800	-	32	1	20	FURNITURE OUTLETS		
OUTLETS	20	1	33	-	800	-	-	34	1	20	FURNITURE OUTLETS		
OUTLETS	20	1	35	-	800	-	-	36	1	20	FURNITURE OUTLETS		
OUTLETS	20	1	37	1080	-	800	-	38	1	20	FURNITURE OUTLETS		
ELEVATOR	20	1	39	-	400	-	-	40	1	20	FURNITURE OUTLETS		
WATER COOLER	20	1	41	-	1800	-	-	42	1	20	FURNITURE OUTLETS		
PHASE LOADING SUB-TOTALS				6120	6200	5440	4000	6000	6000				
PHASE LOADING VA TOTALS				10700	11440	11440							
Equipment	Connected Load VA	% D.F.	Est. Max. Demand VA	COMMENTS:									
RECEPTACLES	17240	50	8620	PROVIDE LUGS TO ACCOMMODATE CONDUCTOR SIZING NEW PANEL SURFACE MOUNTED NEMA 1 LOCKABLE COVER BOLT-ON BREAKERS									
HAND DRYER	2400	100	1680										
ELEVATOR	400	100	400										
EQUIPMENT	1000	100	1000										
FURNITURE	12800	100	8960										
Total Com. Load				33840									
Spare Capacity				-									
Total EMD				-	20360 VA (56A)								

PANEL L2 208/120 Volts 3 Phase 4 Wire 150A MAIN LUGS ONLY 200A Bus Rating											
BRANCH BREAKERS 10 kAIC Minimum Rating											
LOAD DESCRIPTION	AMPERE RATING	POLE	CIRC NO.	LEFT PHASE VA LOADING	RIGHT PHASE VA LOADING	CIRC NO.	POLE	AMPERE RATING	LOAD DESCRIPTION	AMPERE RATING	POLE
OUTLET	20	1	1	1080	-	400	-	2	1	20	COUNTER OUTLET
OUTLET	20	1	3	-	1080	-	-	4	1	20	COUNTER OUTLET
OUTLET	20	1	5	-	800	-	-	6	1	20	PROVISIONS
OUTLET	20	1	7	1080	-	-	-	8	1	20	PROVISIONS
EQUIPMENT	20	1	9	-	800	-	-	10			PROVISIONS
EQUIPMENT	20	1	11	-	800	-	-	12			