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Ruben Ortega Blanco, P.E. 90645
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New Kitchen
Facility for



701 Boutwell Road
Lake Worth, FL 33461

PANELBOARD NOTE

① BREAKER SHALL HAVE GFI PROTECTION
PER N.E.C. 422.5 (A) (2).

GENERAL NOTE

UPON COMPLETION OF JOB, RECEIPTABLE
LOCATIONS TO BE SHOWN IN PANEL
SCHEDULE LOAD DESCRIPTION BY THE
CONTRACTOR.

NEW
FBNDP

NEW
FOSDP

NEW
FOSKLD

NEW
FBESB

NEW
FOSKH

NEW
FOSKL1

NEW
FLH

NEW
FOSMH

-

NEW
FLL

NEW
FOSL

-

E
13



JLRD PROJECT NO:
122110

NEW ELEC PANEL				Distribution Board								'FBMDP'			
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA				
A	B	C									A	B	C		
3						1	2			-	200				
	1		ATS-LS	3	100	3	4	800	3	ATS-OS		209			
		1	-			5	6			-			198		
			-			7	8			-					
			SPARE	3	100	9	10	100	3	SPARE					
			-			11	12			-					
			-			13	14			-					
			SPARE	3	100	15	16	-	3	SPACE					
			-			17	18			-					
			-			19	20			-					
			SPACE	3	-	21	22	30	3	SPD					
			-			23	24			-					
RATED VOLTAGE: 480/277V				3 PHASE, 4 WIRE				FEED IS TO BE (X) BOTTOM () TOP FROM				'UTIL'			
RATINGS IS TO BE 1000				AMPS				GROUND BAR IS REQUIRED							
MAIN PROTECTION: 1000 AMP MAIN BREAKER								NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE							
BRANCH POLES: 24								HINGED DOOR WITH KEYPED LATCH (X) IS () IS NOT REQUIRED							
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE								HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED							
ALL BREAKERS RATED: 65,000 AMPS, SYM RMS															
I = $\frac{611913.968 \text{ VA}}{480^* \text{ V3}}$ = 736.0 A															
CONNECTED LOAD:												612	KVA		
DEDUCT NEC													KVA		
DEMANDED LOAD												612	KVA		

NEW ELEC PANEL						Distribution Board						'FBESB'			
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA				
A	B	C									A	B	C		
3						1	2			-	200				
	1		ATS-LS	3	100	3	4	800	3	ATS-OS		209			
		1	-			5	6			-			198		
			-			7	8			-					
			SPARE	3	100	9	10	1000	3	PORTABLE GEN					
			-			11	12			-					
			-			13	14			-					
			SPARE	3	100	15	16	-	3	SPACE					
			-			17	18			-					
			-			19	20			-					
			SPACE	3	-	21	22	30	3	SPD					
			-			23	24			-					
RATED VOLTAGE: 480/277V				3 PHASE, 4 WIRE				FEED IS TO BE (X) BOTTOM () TOP FROM				'GEN'			
RATINGS IS TO BE 1000				AMPS				GROUND BAR IS REQUIRED							
MAIN PROTECTION: 1000 AMP MAIN BREAKER								NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE							
BRANCH POLES: 24								HINGED DOOR WITH KEYPED LATCH (X) IS () IS NOT REQUIRED							
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE								HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED							
ALL BREAKERS RATED:				35,000 AMPS, SYM RMS											
I = $\frac{611913.968 \text{ VA}}{480^* \text{ V3}}$						= 736.0 A						CONNECTED LOAD: 612 kVA			
												DEDUCT NEC kVA			
												DEMANDED LOAD 612 kVA			

NEW ELEC PANEL				Distribution Board							'FLH'		
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA		
A	B	C									A	B	C
1.5			LIGHTING FRONT	1	20	1	2			-	0.8		
	0.3		LIGHTING OFFICES	1	20	3	4	25	3	FLL		0.8	
		0.2	LIGHTING WAREHOUSE	1	20	5	6			-			1.0
0.6			LIGHTING KITCHEN	1	20	7	8	20	1	SPARE			
			SPARE	1	20	9	10	20	1	SPARE			
			SPARE	1	20	11	12	20	1	SPARE			
			SPARE	1	20	13	14	20	1	SPARE			
			SPARE	1	20	15	16	-	1	SPACE			
			SPARE	1	20	17	18	-	1	SPACE			
			SPACE	1	-	19	20			-			
			SPACE	1	-	21	22	30	3	SPD			
			SPACE	1	-	23	24			-			
RATED VOLTAGE: 480/277V				3 PHASE, 4 WIRE		FEED IS TO BE (X) BOTTOM () TOP FROM					'ATS-LS'		
RATINGS IS TO BE 100				AMPS		GROUND BAR IS REQUIRED							
MAIN PROTECTION: MAIN LUGS ONLY				NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE									
BRANCH POLES: 24				HINGED DOOR WITH KEYPED LATCH (X) IS () IS NOT REQUIRED									
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE				HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED									
ALL BREAKERS RATED: 42,000 AMPS, SYM RMS													
I = $\frac{5218 \text{ VA}}{480^* \text{ V3}}$ = 6.3				A		CONNECTED LOAD: 5					KVA		
				DEDUCT NEC					KVA				
				DEMANDED LOAD 5					KVA				

NEW ELEC PANEL				PANELBOARD SCHEDULE										'FLL'		
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA					
A	B	C									A	B	C			
0.8			FACP	1	20	1	2	1	20	SPARE						
	0.8		NAC	1	20	3	4	1	20	SPARE						
		1.0	FIRE SMOKE DAMPERS	1	20	5	6	1	20	SPARE						
			SPACE	1	-	7	8			-						
			SPACE	1	-	9	10	30	3	SPD						
			SPACE	1	-	11	12			-						
RATED VOLTAGE: 120/208V				3 PHASE, 4 WIRE				FEED IS TO BE () BOTTOM (X) TOP FROM				'FLT'				
RATINGS IS TO BE 60				AMPS				GROUND BAR IS REQUIRED								
MAIN PROTECTION: 60 AMP MAIN BREAKER								NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE								
BRANCH POLES: 12								HINGED DOOR WITH KEYPED LATCH (X) IS () IS NOT REQUIRED								
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE								HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED								
ALL BREAKERS RATED: 10,000 AMPS, SYM RMS								NOTE: Double Section panelboard								
I = $\frac{2600 \text{ VA}}{208^* \sqrt{3}}$ = 7.2 A								CONNECTED LOAD: 3 kVA								
								DEDUCT NEC DEMAND LOAD 3 kVA								

NEW ELEC PANEL				Distribution Board						'FOSDP'			
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA		
A	B	C									A	B	C
22.9			-	3	100	1	2	350	3	-	60.3		
	22.9		FOSKH			3	4			FOSKLD	61.6		
			-			5	6			-		59.0	
65.2			-	3	300	7	8	70	3	-	11.3		
	65.2		FOSMH			9	10			FOSL	12.3		
			-			11	12			-		9.5	
39.9			-	3	200	13	14	100	3	-			
	47.2		H (EXISTING)			15	16			SPARE			
			-			17	18			-			
	41.4		-	3	100	19	20	30	3	-			
			SPARE			21	22			SPD			
			-			23	24			-			
RATED VOLTAGE: 480/277V				3 PHASE, 4 WIRE		FEED IS TO BE (X) BOTTOM () TOP FROM					'ATS-OS'		
RATINGS IS TO BE 800				AMPS		GROUND BAR IS REQUIRED							
MAIN PROTECTION: 800 AMP MAIN BREAKER				NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE									
BRANCH POLES: 24				HINGED DOOR WITH KEYPED LATCH (X) IS () IS NOT REQUIRED									
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE				HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED									
ALL BREAKERS RATED: 42,000 AMPS, SYM RMS													
I = $\frac{606695.968 \text{ VA}}{480^* \text{ V3}}$ = 729.8 A						CONNECTED LOAD: 607				KVA			
						DEDUCT NEC DEMANDED LOAD				607			
										KVA			

NEW ELEC PANEL				PANELBOARD SCHEDULE							'FOSKH'		
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA		
A	B	C									A	B	C
6.9		-				1	2			-	8.0		
	6.9		WAREWASHER	3	35	3	4	3	60	CK/CHL CU 2		8.0	
		6.9	-			5	6			-			8.0
8.0		-				7	8			-			
	8.0		CK/CHL CU 1	3	60	9	10	3	60	SPARE			
		8.0	-			11	12			-			
		-				13	14			-			
			SPACE	3	-	15	16	3	60	SPARE			
		-				17	18			-			
		-				19	20			-			
			SPACE	3	-	21	22	30	3	SPD			
		-				23	24			-			
RATED VOLTAGE: 480/277V			3 PHASE, 4 WIRE		FEED IS TO BE () BOTTOM (X) TOP FROM						'FOSDP'		
RATINGS IS TO BE 225			AMPS		GROUND BAR IS REQUIRED								
MAIN PROTECTION: MAIN LUGS ONLY			NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE										
BRANCH POLES: 24			HINGED DOOR WITH KEYPED LATCH (X) IS () IS NOT REQUIRED										
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE			HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED										
ALL BREAKERS RATED: 42,000 AMPS, SYM RMS			NOTE: Double Section panelboard										
CONNECTED LOAD: 69 kVA													
DEDUCT NEC 5 kVA													
DEMAND LOAD 74 kVA													
I = $\frac{73565.04 \text{ VA}}{480^* \text{ V3}}$ = 88.5 A													

NEW ELEC PANEL				PANELBOARD SCHEDULE							'FOSMH'			
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA			
A	B	C									A	B	C	
14.8			-			1	2			-	5.7			
	14.8		RTU-4	3	70	3	4	25	3	MAU-1		5.7		
			-			5	6			-			5.7	
7.5			-			7	8			-	10.0			
	7.5		RTU-5	3	30	9	10	45	3	MAU-2		10.0		
			-			11	12			-			10.0	
15.2		7.5	-			13	14			-	12.0			
	15.2		RTU-6	3	70	15	16	50	3	MAU-3		12.0		
		15.2	-			17	18			-			12.0	
			-			19	20			-				
			SPARE	3	70	21	22	-	3	SPACE				
			-			23	24			-				
			-			25	26			-				
			SPARE	3	70	27	28	30	3	SPD				
			-			29	30			-				
RATED VOLTAGE:			480/277V		3 PHASE, 4 WIRE		FEED IS TO BE () BOTTOM (X) TOP FROM						'FOSDP'	
RATINGS IS TO BE			300		AMPS		GROUND BAR IS REQUIRED							
MAIN PROTECTION:			MAIN LUGS ONLY				NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE							
BRANCH POLES:			30				HINGED DOOR WITH KEYPAD LATCH (X) IS () IS NOT REQUIRED							
PANELBOARD IS TO BE			() FUSED (X) BOLT IN CB TYPE				HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED							
ALL BREAKERS RATED:			42,000 AMPS, SYM RMS				NOTE: Double Section panelboard							
I =			201873.4 VA		= 242.8 A		CONNECTED LOAD:				195 kVA			
			480* V3				DEDUCT NEC				6 kVA			
							DEMAND LOAD:				202 kVA			