

PANEL												MPA											
VOLTAGE (L-N):				277				ENCLOSURE TYPE:				NEMA 1											
VOLTAGE (L-L):				480				MOUNTING:				SURFACE											
PHASES, WIRES:				3 $\phi$ 4 W				AIC RATING (A):				22000											
MINIMUM BUS CAPACITY (A):				225 A				NOTES:				INTEGRAL BUS MTD TVSS (65KA)											
MAIN O.C. DEVICE (A):				225 A																			
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)						POLE	TRIP AMPS	DESCRIPTION	CKT NO										
				A		B		C															
1,3,5	PANEL RPA via Transformer	70	3	12762	1865		12134	1865		18250	1865	3	20	AHU-1	2,4,6								
7,9,11	ERV-1	20	3	1233	4000		1233	4000		1233	4000	3	20	CP-1 CIRC. PUMP	8,10,12								
13,15,17	PANEL MPB	100	3	17984	0		17984	0		17984	0	3	20	SPARE	14,16,18								
19,21,23	SPARE	20	3	0	0		0	0		0	0	3	20	SPARE	20,22,24								
25,27,29	SPARE	20	3	0	0		0	0		0	0	3	30	TVSS	26,28,30								
				CONNECTED LOAD PHASE TOTALS (VA)																			
				37844		37216		43332															
				CONNECTED LOAD (KVA)				DEMAND FACTOR				DEMAND LOAD (KVA)											
Cooling				3.4				1.00				3.4											
Equipment				4.0				1.00				4.0											
Lighting				5.9				1.25				7.4											
Kitchen Equipment - Non-Dwelling Unit				1.0				1.00				1.0											
Lighting - Exterior				0.2				1.25				0.2											
Motors				64.5				1.00				64.5											
Motors (Largest)				12.0				1.25				15.0											
Receptacles (0 - 10 KVA)				10.0				1.00				10.0											
Receptacles (Over 10 KVA)				20.4				0.50				10.2											
TOTAL:				121.4								115.7											
LOAD (AMPS):				146.0								139.2											
												DEMAND LOAD 115.7 KVA											
												SPARE CAPACITY 71.3 KVA											
												SPARE CAPACITY 85.8 AMPS											
												SPARE CAPACITY 38 %											
												PHASE BALANCE											
												A TO B 98 %											
												B TO C 86 %											
												C TO A 88 %											

PANEL RPA											
VOLTAGE (L-N):				120		ENCLOSURE TYPE:			NEMA 1		
VOLTAGE (L-L):				208		MOUNTING:			SURFACE		
PHASES, WIRES:				3 ∅ 4 W		AIC RATING (A):			22000		
MINIMUM BUS CAPACITY (A):				125 A		NOTES:					
MAIN O.C. DEVICE (A):				125 A							
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)			POLE	TRIP AMPS	DESCRIPTION	CKT NO	
				A	B	C					
1	LGTS, WEST BLDG	20	1	983	1129			1	20	LGTS, CORRIDOR	2
3	LGTS, CENTRAL	20	1		1242	1492		1	20	LGTS, EAST BLDG	4
5	LGTS, CANOPY/THRU CONTACTOR	20	1				1250 2500	2	50	PANEL RPCN "LOCK ON"	6,8
7	REC, EWC-1	20	1	350	2300			2	50	PANEL RPCN "LOCK ON"	6,8
9	DDC & SOLAR CONT PWR	20	1		1000	0		1	20	SPARE	10
11	REC, ROOM 11 & 12	20	1				1800 1600	1	20	REC, ROOM 13 & 14	12
13	REC, ROOM 9-10 & 30-31	20	1	1400	1800			1	20	REC, ROOM 4 & 5	14
15	REC, ROOM 5 & 6	20	1		800	1000		1	20	REC, ROOM 7	16
17	REC, ROOM 15 & 16	20	1				1800 1800	1	20	REC, ROOM 18 & 17	18
19	REC, ROOM 28	20	1	1200	1000			1	20	REC, ROOM 8	20
21	REC, ROOM 22-25	20	1		1400	600		1	20	REC, ROOM 19	22
23	REC, ROOM 20	20	1				1000 1600	1	20	REC, ROOM 19	24
25	REC, ROOM 33	20	1	1600	500			1	20	REC, REFRIGERATOR	26
27	REC, KITCHEN	20	1		800	1500		1	20	REC, KITCHEN	28
29	REC, MICROWAVE	20	1				1500 1400	1	20	REC, ROOM 1, 21 & 34	30
31	DISPOSAL	20	1	500	0			1	20	SPARE	32
33	SPARE	20	1		0	0		1	20	SPARE	34
35	SPARE	20	1				0 0	1	20	SPARE	36
37	SPARE	20	1	0	0			1	20	SPARE	38
39,41	REC, ROOM 16	20	2		1000	1000		2	20	REC, ROOM 19	40,42
				CONNECTED LOAD PHASE TOTALS (VA)							
				12762		11934		18250			
				CONNECTED LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)		DEMAND LOAD 34.6KVA	
Cooling				0.3		1.00		0.3		SPARE CAPACITY 10.4KVA	
Equipment				4.0		1.00		4.0		SPARE CAPACITY 29.0AMPS	
Lighting				5.9		1.25		7.4		PHASE BALANCE 23 %	
Kitchen Equipment – Non-Dwelling Unit				1.0		1.00		1.0		A TO B 95 %	
Lighting – Exterior				0.2		1.25		0.2		B TO C 66 %	
Motors				0.8		1.00		0.8		C TO A 70 %	
Motors (Largest)				0.5		1.25		0.6			
Receptacles (0 – 10 KVA)				10.0		1.00		10.0			
Receptacles (Over 10 KVA)				20.4		0.50		10.2			
TOTAL:				43.1				34.6			
LOAD (AMPS):				119.8				96.0			

PANEL MPB													
VOLTAGE (L-N):				277		ENCLOSURE TYPE:			NEMA 4X				
VOLTAGE (L-L):				480		MOUNTING:			SURFACE				
PHASES, WIRES:				3 4 4 W		AIC RATING (A):			22000				
MINIMUM BUS CAPACITY (A):				100 A		NOTES:			INTEGRAL BUS MTD TVSS (65KA)				
MAIN O.C. DEVICE (A):				100 A									
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)						POLE	TRIP AMPS	DESCRIPTION	CKT NO
				A		B		C					
1,3,5	WSHP	70	3	13750	746		13750	746		13750	746	P-1 (COND. WATER)	2,4,6
7,9,11	P-2 (CHILLED WATER)	15	3	746	1492		746	1492		746	1492	P-3 (HOT WATER)	8,10,12
13,15,17	P-4 (LOOP PUMP) ALTERNATE	15	3	0	1250		0	1250				CT-1 (COOLING TOWER)	14,16,18
19,21,23	SPARE	20	3	0	0		0	0		0	0	TVSS	20,22,24
				CONNECTED LOAD PHASE TOTALS (VA)									
				17984		17984		17984					
				CONNECTED LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)		DEMAND LOAD		56.0 KVA	
Motors				45.7		1.00		45.7		SPARE CAPACITY		27.1 KVA	
Motors (Largest)				8.3		1.25		10.3		SPARE CAPACITY		32.6 AMPS	
										PHASE BALANCE		33 %	
										A TO B		100 %	
										B TO C		100 %	
										C TO A		100 %	
TOTAL:				54.0				56.0					
LOAD (AMPS):				64.9				67.4					

PANEL										RPC									
VOLTAGE (L-N):					120					ENCLOSURE TYPE:					NEMA 1				
VOLTAGE (L-L):					208					MOUNTING:					SURFACE				
PHASES, WIRES:					1 $\phi$ , 3 W					AIC RATING:					10000				
MINIMUM BUS CAPACITY (A):					50 A					NOTES:									
MAIN O.C. DEVICE (A):					MLO														
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)						POLE	TRIP AMPS	DESCRIPTION	CKT NO						
				A			B												
1	FIRE ALARM "LOCK ON"	20	1	500		500				1	20	ACCESS CONTROL "LOCK ON"	2						
3	REC, COMM ROOM	20	1				1500		800	1	20	REC, COMM ROOM	4						
5	REC, COMM ROOM	20	1	1500		0				1	20	SPARE	6						
7	SPARE	20	1				0		0	1	20	SPARE	8						
9,11	AH-2	20	2		200		1500			2	20	HP-6	10,12						
				CONNECTED LOAD PHASE TOTALS (VA)															
				4200			4000												
				CONNECTED LOAD (KVA)			DEMAND FACTOR			DEMAND LOAD (KVA)									
Cooling				3.4			1.00			3.4									
Equipment				4.0			1.00			4.0									
Receptacles (0 - 10 KVA)				0.8			1.00			0.8									
TOTAL:				8.2						8.2									
LOAD (AMPS):				39.4						39.4									
										DEMAND LOAD 8.2 KVA									
										SPARE CAPACITY 2.2 KVA									
										SPARE CAPACITY 10.6 AMPS									
										SPARE CAPACITY 21%									