

EXISTING PANEL 'M-A'														
Location: Mezzanine		A/C: EXISTING										208/120 Volt, 3ø, 4w		
Mounting: Surface												Main: MCB 400A		
Circuit Description		KVA	CB	NO.	NOTE	A	B	C	NOTE	NO.	CB	KVA	Circuit Description	
WATER HEATER (XEW-H-1)	3.7	40/3	1	C	X				B	2	50/2	2.8	CU-1	
	3.7		3			X		4		2.8				
	3.7		5				X	6		30/2		1.7		
WATER HEATER (XEW-H-2)	3.7	40/3	7	C	X				B	8	50/2	1.7	CU-3	
	3.7		9			X		10		2.8				
	3.7		11				X	12		2.8				
FCU-1/HP-1	0.8	20/2	13	B	X				B	14	50/2	2.8	CU-4	
	0.8		15			X		16		2.8				
			17				X	18		20/1		SPARE		
SPARE			19		X				C	20	30/3		SPARE	
SPACE			21			X		22						
SPACE			23				X	24						
SPACE			25		X				C	26	40/3	2.3	XCU-5	
SPACE			27			X		28		2.3				
SPACE			29				X	30		2.3				
SPACE			31		X				C	32	40/3	2.3	XCU-6	
SPACE			33			X		34		2.3				
SPACE			35				X	36		2.3				
SPACE			37		X				C	38	40/3	2.3	XCU-7	
SPACE			39			X		40		2.3				
SPACE			41				X	42		2.3				
CONNECTED KVA:		163.4				A	B	C	DESIGN DEMAND KVA:					120.9
CONNECTED HIGH PHASE AMPS:		470.0				55.3	56.4	51.7	DESIGN DEMAND AMPS:					335.8

PANEL NOTES:
A - PROVIDE CIRCUIT BREAKER WITH LOCK-ON DEVICE.
B - PROVIDE HACR CIRCUIT BREAKER.
C - EXISTING BREAKER TO REMAIN. NO NEW LOAD ON CIRCUIT.
BALANCE PHASE LOADS TO WITHIN 10% OF EACH OTHER.

EXISTING PANEL 'M-B'														
Location: Mezzanine		A/C: EXISTING									208/120 Volt, 3ø, 4w			
Mounting: Surface											Main: MLO 400A			
Circuit Description		KVA	CB	NO.	NOTE	A	B	C	NOTE	NO.	CB	KVA	Circuit Description	
XBCU-1		4.1	45/3	1	C	X				2	20/3		SPARE	
		4.1		3			X			4				
		4.1		5				X				6		
XBCU-2		4.1	45/3	7	C	X				8	20/3		SPARE	
		4.1		9			X			10				
		4.1		11				X				12		
XBCU-3		2.9	30/3	13	C	X			C	14	30/3	2.0	XBCU-3	
		2.9		15			X			16		2.0		
		2.9		17				X				18		2.0
XBCU-4		4.1	45/3	19	C	X			C	20	20/3	1.0	SPARE	
		4.1		21			X			22		1.0		
		4.1		23				X				24		1.0
XBCU-5		2.9	30/3	25	C	X			C	26	30/3	2.0	XBCU-5	
		2.9		27			X			28		2.0		
		2.9		29				X				30		2.0
XBCU-6		2.9	30/3	31	C	X			C	32	30/3	2.0	XBCU-6	
		2.9		33			X			34		2.0		
		2.9		35				X				36		2.0
XBCU-7		2.9	30/3	37		X			C	38	30/3	2.0	XBCU-7	
		2.9		39				X				40		2.0
		2.9		41				X				42		2.0
CONNECTED KVA:		98.7				A	B	C			DESIGN DEMAND KVA:		101.8	
CONNECTED HIGH PHASE AMPS:		274.2				32.9	32.9	32.9			DESIGN DEMAND AMPS:		282.7	

PANEL NOTES:
A - PROVIDE CIRCUIT BREAKER WITH LOCK-ON DEVICE.
B - PROVIDE HACR CIRCUIT BREAKER.
C - EXISTING BREAKER TO REMAIN. NO NEW LOAD ON CIRCUIT.
BALANCE PHASE LOADS TO WITHIN 10% OF EACH OTHER.

EXISTING PANEL 'P'													
Location: Mezzanine		22,000 A/C										208/120 Volt, 3ø, 4w	
Mounting: Surface												Main: MCB 400A	
Circuit Description	KVA	CB	NO.	NOTE	A	B	C	NOTE	NO.	CB	KVA	Circuit Description	
DRINKING FOUNTAIN	0.5	20/1	1	D	X				2	20/1	0.8	RECEPTION RECEPTACLES	
WAREHOUSE RECEPTACLES	0.2	20/1	3	D		X			4	20/1	0.7	PRINTER/ROUTER	
CP-1	0.1	20/1	5	A			X	A	6	20/1	0.8	P.O.S. DED. RECS.	
HVAC UNIT LIGHT/RECEPTACLES	0.4	20/1	7		X			A	8	20/1	0.8	P.O.S. DED. RECS.	
BACK OF HOUSE CONV. RECEPTACLES	0.9	20/1	9			X		A	10	20/1	0.8	P.O.S. DED. RECS.	
SPARE		20/1	11				X	A	12	20/1	0.8	P.O.S. DED. RECS.	
TOILET RECEPTACLES/XEF-1	0.4	20/1	13	D	X				14	20/1	1.5	P.O.S. GENERAL RECS.	
CORRIDOR RECEPTACLES	1.1	20/1	15	D		X			16	20/1	0.5	DISPLAY CASE LIGHTING	
EXISTING HANDICAP DOOR ACTUATOR	1.0	20/1	17	D			X	A	18	20/1	1.0	ATM MACHINES	
HAND DRYER	0.6	20/1	19	C	X			A	20	20/1	1.2	INTERIOR SIGNS	
HAND DRYER	0.6	20/1	21	C		X			22	20/1	0.5	TV RECEPTACLES	
RESTROOM RECEPTACLES	0.4	20/1	23				X		24	20/1	0.5	WALL CASEWORK DISPLAY LIGHTS	
MEZZANINE MECH RECEPTACLES	0.8	20/1	25	D	X				26	20/1	0.4	RETAIL AREA RECEPTACLES	
REFRIGERATOR	1.0	20/1	27	C		X			28	20/1	1.0	FULFILLMENT AREA PLUGMOLD	
MICROWAVE	1.0	20/1	29				X		30	20/1		SPARE	
APPLIANCE RECEPTACLE	0.5	20/1	31		X				32	20/1	1.0	FULFILLMENT AREA PLUGMOLD	
OFFICE RECEPTACLES	1.3	20/1	33	D		X			34	20/1	1.0	FULFILLMENT AREA PLUGMOLD	
WORK AREA PLUGMOLD	0.5	20/1	35				X	A	36	20/1	1.0	SAFE POWER	
WORK AREA PLUGMOLD	0.5	20/1	37		X				38	20/1	0.2	VAULT P.O.S. DED. REC.	
WORK AREA PLUGMOLD	0.5	20/1	39			X			40	20/1	0.2	VAULT P.O.S. DED. REC.	
SPARE		20/1	41				X		42	20/1	0.2	VAULT P.O.S. DED. REC.	
					A	B	C						
CONNECTED KVA:					57.4	22.4		19.1	15.9	DESIGN DEMAND KVA: 64.2			
CONNECTED HIGH PHASE AMPS:					186.7					DESIGN DEMAND AMPS: 178.2			

PANEL NOTES:
A - PROVIDE CIRCUIT BREAKER WITH LOCK-ON DEVICE.
B - PROVIDE HACR CIRCUIT BREAKER.
C - BREAKER SHALL BE 5 Ma 'G.F.I.' TYPE
D - EXISTING BREAKER TO REMAIN. NO NEW LOAD ON CIRCUIT.
BALANCE PHASE LOADS TO WITHIN 10% OF EACH OTHER.

LOAD SUMMARY - PANEL 'M-A'			
	CONNECTED	KVA	DESIGN DEMAND
			FACTOR KVA
LIGHTING	0.0	1.25	0.0
RECEPTACLES	0.0	1.0	0.0
SIGN	0.0	1.25	0.0
WATER HEATER	22.2	1.0	22.2
HVAC (LARGEST)	0.0	1.25	0.0
HVAC (REMAINING)	98.7	1.0	98.7
HVAC (NONCOINCIDENTAL)	42.5	0.0	0.0
MISCELLANEOUS	0.0	1.0	0.0
TOTAL KVA:	163.4		120.9
TOTAL AMPS:	453.9		335.8

LOAD SUMMARY - PANEL 'M-B'			
	CONNECTED	KVA	DESIGN DEMAND
			FACTOR KVA
LIGHTING	0.0	1.25	0.0
RECEPTACLES	0.0	1.0	0.0
SIGN	0.0	1.25	0.0
WATER HEATER	0.0	1.0	0.0
HVAC (LARGEST)	12.3	1.25	15.4
HVAC (REMAINING)	86.4	1.0	86.4
HVAC (NONCOINCIDENTAL)	0.0	0.0	0.0
MISCELLANEOUS	0.0	1.0	0.0
TOTAL KVA:	98.7		101.8
TOTAL AMPS:	274.2		282.7

LOAD SUMMARY - PANEL 'P'			
	CONNECTED	KVA	DESIGN DEMAND
			FACTOR KVA
LIGHTING	22.2	1.25	27.8
RECEPTACLES	8.9	1.0	8.9
SIGN	4.8	1.25	6.0
WATER HEATER	0.0	1.0	0.0
HVAC (LARGEST)	0.0	1.25	0.0
HVAC (REMAINING)	0.1	1.0	0.1
HVAC (NONCOINCIDENTAL)	0.0	0.0	0.0
MISCELLANEOUS	21.4	1.0	21.4
TOTAL KVA:	57.4		64.2
TOTAL AMPS:	159.4		178.2

LOAD SUMMARY - PANEL 'L'			
	CONNECTED	KVA	DESIGN DEMAND
			FACTOR KVA
LIGHTING	21.2	1.25	26.5
RECEPTACLES	0.6	1.0	0.6
SIGN	3.6	1.25	4.5
WATER HEATER	0.0	1.0	0.0
HVAC (LARGEST)	0.0	1.25	0.0
HVAC (REMAINING)	0.0	1.0	0.0
HVAC (NONCOINCIDENTAL)	0.0	0.0	0.0
MISCELLANEOUS	4.8	1.0	4.8
TOTAL KVA:	30.2		36.4
TOTAL AMPS:	83.9		101.1

EXISTING -----
NEW -----

POWER RISER DIAGRAM NOTES