

DIRECTORY	KVA LOAD			CKT NO.	BKR AMPS	A	B	C	CKT NO.	BKR AMPS	A	B	C	DIRECTORY	
	A	B	C												A
(5) 5TH FLOOR LTS - SOUTH	3.3			1	20				20	2				SPARE	
(1) USED - LOAD ASSUMED	2.0			3	20				20	4				SPARE	
(1) USED - LOAD ASSUMED		2.0		5	20				20	6				SPARE	
(4) 5TH FLOOR LTS - EAST	2.8			7	20				8	6.0				HUMIDIFIER HU-5 (4)	
(4) 5TH FLOOR LTS - NORTHWEST	3.5			9	20				10	6.0					
(4) 5TH FLOOR LTS - NORTHWEST		2.7		11	20				12		6.0				
(4) 5TH FLOOR LTS - LOBBY AREA	2.2			13	20				14					SPACE	
(4) WATER HEATER (2KW)	2.0			15	20				16					SPACE	
SPACE				17	20				18					SPACE	
(4) AHU-5 SUPPLY (10HP) VFD	5.8			21	40				22					SPACE	
		5.8		23	40				24					SPACE	
(4) AHU-5 EXHAUST (3HP) VFD	2.0			25	15				26	15.0				FEED TO LV5A VIA 45 KVA TRANSFORMER (4)	
		2.0		27	15				28	15.0					
				29	15				30		15.0				
SUB-TOTAL				16.1	15.3	12.5	NEUTRAL BUS			21.0	21.0	21.0	SUB-TOTAL		
				GROUND BUS											
VOLTAGE: 480Y/277V 3 PHASE 4 WIRE				225 AMP BUS			TOTAL KVA A			37.1			PANEL NO.		HV5A (EXISTING)
MAIN LUGS ONLY				225 AMP LUGS			TOTAL KVA B			36.3			LOCATION		5TH FLOOR ELEC. ROOM
MOUNTING: SURFACE				TOTAL KVA C			33.5			LOCATION		5TH FLOOR ELEC. ROOM			
SC RATING: 65,000				TOTAL KVA			106.9								
NOTES: (1) EXISTING CIRCUIT TO REMAIN (4) NEW CIRCUIT BREAKER (2) EXISTING CIRCUIT DELETED, CIRCUIT TO BECOME SPARE (5) NEW CIRCUIT, EXISTING CIRCUIT DELETED (3) NEW CIRCUIT FROM SPARE CIRCUIT BREAKER															

DIRECTORY	KVA LOAD			CKT NO.	BKR AMPS	A	B	C	CKT NO.	BKR AMPS	A	B	C	DIRECTORY	
	A	B	C												A
(1) 6TH FLOOR LTS	0.1			1	20				20	2				WATER HEATER (3KW) (3)	
(3) 6TH FLOOR LTS - NORTH	3.4			3	20				20	4				SPARE (1)	
(3) 6TH FLOOR LTS - LOBBY, WEST		3.6		5	20				20	6				SPARE (1)	
(4) 6TH FLOOR LTS - CORR, WORK RM	3.2			7	20				8	2.6				HUMIDIFIER HU-6B (4)(6)	
(4) 6TH FLOOR LTS - READ, OSHER, SEM	4.0			9	20				10	2.6					
(4) 6TH FLOOR LTS - SOUTH		3.0		11	20				12		2.6				
(4)(7) HUMIDIFIER HU-6	6.0			13	35				14	15.0				FEED TO LV6A VIA 45 KVA TRANSFORMER (4)	
	6.0			15	35				16	15.0					
		6.0		17	35				18		15.0				
(4)(8) AHU-6 SUPPLY (10HP) VFD	5.8			19	40				20	2.1				AHU-6B SUPPLY (5HP) (4)(6)	
		5.8		21	40				22	2.1					
(4)(9) AHU-6 EXHAUST (3HP) VFD	2.0			23	15				24		2.1				
		2.0		25	15				26	0.9				AHU-6B EXHAUST (1HP) VFD (4)(6)	
				27	15				28	0.9					
				29	15				30		0.9				
SUB-TOTAL				17.1	21.2	20.4	NEUTRAL BUS			23.6	20.6	20.6	SUB-TOTAL		
				GROUND BUS											
VOLTAGE: 480Y/277V 3 PHASE 4 WIRE				225 AMP BUS			TOTAL KVA A			40.7			PANEL NO.		HV6A (EXISTING)
MAIN LUGS ONLY				225 AMP LUGS			TOTAL KVA B			41.8			LOCATION		6TH FLOOR ELEC. ROOM
MOUNTING: SURFACE				TOTAL KVA C			41.0			LOCATION		6TH FLOOR ELEC. ROOM			
SC RATING: 65,000				TOTAL KVA			123.5								
NOTES: (1) EXISTING CIRCUIT TO REMAIN (7) UNDER ALTERNATE #4 THIS WILL BE A 25A C.B. AND FEED HU-6A (2) EXISTING CIRCUIT DELETED, CIRCUIT TO BECOME SPARE (8) UNDER ALTERNATE #4 THIS WILL BE A 50A C.B. AND FEED AHU-6A SUPPLY (3) NEW CIRCUIT FROM SPARE CIRCUIT BREAKER (9) UNDER ALTERNATE #4 THIS WILL FEED AHU-6A EXHAUST VFD (4) NEW CIRCUIT BREAKER (5) NEW CIRCUIT, EXISTING CIRCUIT DELETED (6) ALTERNATE #4															

DIRECTORY	KVA LOAD			CKT NO.	BKR AMPS	A	B	C	CKT NO.	BKR AMPS	A	B	C	DIRECTORY	
	A	B	C												A
(1) SPARE				1	20				20	2	2.9			7TH FLOOR LTS - EVENTS (3)	
(1) MECH ROOM LTS	0.7			3	20				20	4	3.3			7TH FLOOR LTS - LOBBY, EVENTS, WEST (3)	
(1) HOT WATER HEATER		3.0		5	20				6					SPACE	
(2) SPARE				7	30				8					SPACE (2)	
				9	30				10					SPACE	
				11	30				12					SPACE	
(1) 75KVA TRANSFORMER TO LV7A	25.0			13	70				14					UNUSABLE (1)	
	25.0			15	70				16					UNUSABLE (1)	
		25.0		17	70				18					UNUSABLE (1)	
(1) SPARE				19	20				20					SHUNT TRIP ACCESSORY (1)	
				21	20				22		11.0				
				23	20				24		11.0			FREIGHT ELEVATOR (1)	
(4) 7TH FLOOR LTS - STACKS	3.6			25	20				26	11.0					
(4) 7TH FLOOR LTS - EAST	3.3			27	20				28	11.9					
(4) 7TH FLOOR LTS NORTHWEST		1.0		29	20				30		11.9			HUMIDIFIER HU-7 (4)	
SPACE				31	20				32	11.9					
SPACE				33	20				34					SPACE	
SPACE				35	20				36					SPACE	
SPACE				37	20				38					SPACE	
SPACE				39	20				40					SPACE	
SPACE				41	20				42					SPACE	
SUB-TOTAL				28.6	29.0	29.0	NEUTRAL BUS			25.8	26.2	22.9	SUB-TOTAL		
				GROUND BUS											
VOLTAGE: 480Y/277V 3 PHASE 4 WIRE				225 AMP BUS			TOTAL KVA A			54.4			PANEL NO.		HV7A (EXISTING)
MAIN LUGS ONLY				225 AMP LUGS			TOTAL KVA B			55.2			LOCATION		7TH FLOOR ELEC. ROOM
MOUNTING: SURFACE				TOTAL KVA C			51.9			LOCATION		7TH FLOOR ELEC. ROOM			
SC RATING: 65,000				TOTAL KVA			161.5								
NOTES: (1) EXISTING CIRCUIT TO REMAIN (4) NEW CIRCUIT BREAKER (2) EXISTING CIRCUIT DELETED, CIRCUIT TO BECOME SPARE (5) NEW CIRCUIT, EXISTING CIRCUIT DELETED (3) NEW CIRCUIT FROM SPARE CIRCUIT BREAKER															

DIRECTORY	KVA LOAD			CKT NO.	BKR AMPS	A	B	C	CKT NO.	BKR AMPS	A	B	C	DIRECTORY	
	A	B	C												A
AHU-7 SUPPLY (10HP) VFD	5.8			1	40				2	0.8				ACCH-4 CHW CIRC PUMP P-10 (1.5 HP)(1)	
		5.8		3	40				4	0.8					
			5.8	5	40				6		0.8				
AHU-7 EXHAUST (3HP) VFD	2.0			7	15				8	0.4				BOILER INJECTION PUMP P-11 (3/4HP)	
		2.0		9	15				10	0.4					
			2.0	11	15				12		0.4				
PRIMARY CHW PUMP P-3 (20HP) VFD	11.0			13	70				14	0.4				BOILER INJECTION PUMP P-12 (3/4HP)	
		11.0		15	70				16	0.4					
			11.0	17	70				18		0.4				
PRIMARY CHW PUMP P-4 (20HP) VFD	*			19	20				20	0.4				BOILER INJECTION PUMP P-13 (3/4HP)	
(BACK-UP)		*		21	20				22	0.4					
			*	23	20				24		0.4				
(1) ACCH-4 CHW CIRC PUMP P-9 (1.5 HP)	0.8			25	15				26	0.4				BOILER INJECTION PUMP P-14 (3/4HP) (1)	
		0.8		27	15				28	0.4					
SPACE			0.8	29	15				30		0.4				
SPACE				31	70				32	9.6				ACCH-4 (1)	
SPACE				33	70				34	9.6					
SPACE				35	70				36	9.6					
SPACE				37	70				38	14.4				FEED TO EP7A VIA	
SPACE				39	70				40	11.4				MANUAL TRANSFER	
SPACE				41	70				42		11.4			SWITCH MTS-1	
SUB-TOTAL				19.6	19.6	19.6	NEUTRAL BUS			26.4	23.4	23.4	SUB-TOTAL		
				GROUND BUS											
VOLTAGE: 480Y/277V 3 PHASE 4 WIRE				225 AMP BUS			TOTAL KVA A			46.0			PANEL NO.		HV7B
MAIN LUGS ONLY				225 AMP LUGS			TOTAL KVA B			43.0			LOCATION		7TH FLOOR ELEC. ROOM
MOUNTING: SURFACE				TOTAL KVA C			43.0			LOCATION		7TH FLOOR ELEC. ROOM			
SC RATING: 65,000				TOTAL KVA			132.0								
NOTES: (1) ALTERNATE #4															

DIRECTORY	KVA LOAD			CKT NO.	BKR AMPS	A	B	C	CKT NO.	BKR AMPS	A	B	C	DIRECTORY	
	A	B	C												A
(1) 7TH FLOOR LIGHTS - SOUTH & EAST	2.8			1	20				2					SPARE (1)	
(1) 7TH FLOOR LIGHTS - NORTH & WEST		3.0		3	20				4					SPARE (1)	
(1) ROOF & PENTHOUSE LTS		0.6		5	20				6			0.2		ELEVATOR PENTHOUSE LTS (1)	
(1) PHOTO EYE ON ROOF	0.1			7	20				8					SPACE	
(3) 7TH FLOOR LTS - EGRESS	1.8			9	20				10					SPACE (2)	
(3) 7TH FLOOR LTS - BATH & STACKS		1.6		11	20				12					SPACE (2)	
SPACE				13	20				14					SPACE	
SPACE				15	20				16					SPACE	
SPACE				17	20				18					SPACE	
SPACE				19	20				20	14.4				FEED TO EP7A VIA	
SPACE				21	20				22	11.4				MANUAL TRANSFER	
SPACE				23	20				24		11.4			SWITCH MTS-1	
SPACE				25	20				26					SPACE	
SPACE				27	20				28					SPACE	
SPACE				29	20				30					SPACE	
SPACE				31	20				32					SPACE	
SPACE				33	20				34					SPACE	
SPACE				35	20				36					SPACE	
SUB-TOTAL				2.9	4.8	2.2	NEUTRAL BUS			14.4	11.4	11.6	SUB-TOTAL		
				GROUND BUS											
VOLTAGE: 480Y/277V 3 PHASE 4 WIRE				200 AMP BUS			TOTAL KVA A			17.3			PANEL NO.		EP7 (EXISTING)
MAIN LUGS ONLY				200 AMP LUGS			TOTAL KVA B			16.2			LOCATION		7TH FLOOR ELEC. ROOM
MOUNTING: SURFACE				TOTAL KVA C			13.8			LOCATION		7TH FLOOR ELEC. ROOM			
SC RATING: 65,000				TOTAL KVA			47.3								
NOTES: (1) EXISTING CIRCUIT TO REMAIN (4) NEW CIRCUIT BREAKER (2) EXISTING CIRCUIT DELETED, CIRCUIT TO BECOME SPARE (5) NEW CIRCUIT, EXISTING CIRCUIT DELETED (3) NEW CIRCUIT FROM SPARE CIRCUIT BREAKER															

DIRECTORY	KVA LOAD			CKT NO.	BKR AMPS	A	B	C	CKT NO.	BKR AMPS	A	B	C	DIRECTORY
	A	B	C											
PRIMARY HEATING PUMP P-1 (15HP) VFD	8.4			1	50				2	3.0				BOILERS 1, 2, & 3 TRANSFORMER
		8.4		3	50				4	3.0				
			8.4	5	50		</							