

SWITCHBOARD - MSA												
TYPE: 1800 AMP MCB (SHUNT TRIP)		AIC: 42,000 AMPERES			MOUNTED SURFACE			VOLTAGE: 277/480 VOLTS, 3 PHASE, 4 WIRE				
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B	PHASE C						PHASE A	PHASE B	PHASE C	
ELEVATOR SHUNT TRIP (NOTE 2)	18,005	18,005	18,005	125	3	1	2	1000	156,562	156,562	156,562	PANEL MECH
ELEVATOR SHUNT TRIP (NOTE 2)	18,005	18,005	18,005	125	3	3	4	400	98,395	98,395	98,395	ATS-CR
PANEL PP1	35,182	35,182	35,182	225	3	11	12	175	36,669	36,669	36,669	1-EM1
BUSSED SPACE				125	3	13	14	125	25,000	25,000	25,000	FUTURE 2ND FLOOR TX
SPARE				225	3	23	24	125	25,000	25,000	25,000	FUTURE 3RD FLOOR TX
SPARE				225	3	25	26	175	25,000	25,000	25,000	SPARE
BUSSED SPACE				400	3	33	34	400				BUSSED SPACE
BUSSED SPACE				225	3	41	42	225				BUSSED SPACE
SUB TOTAL (VA)	71,192	71,192	71,192		3	47	48		327,596	325,791	324,229	SUB TOTAL (VA)

TOTAL LOAD PHASE A: 398,788 (VA)
 TOTAL LOAD PHASE B: 396,983 (VA)
 TOTAL LOAD PHASE C: 396,421 (VA)
 TOTAL LOAD: 1,191,192 (VA) = 1433 AMPS

NOTES:
 1. PANEL SHALL BE UL LISTED FOR SERVICE ENTRANCE
 2. PROVIDE SHUNT TRIP TYPE CIRCUIT BREAKER
 3. MAIN BREAKER SHALL BE 100% (FULLY) RATED WITH SHUNT TRIP
 4. PROVIDE PANEL WITH NAME PLATE INDICATING AIC RATING
 5. PROVIDE ARC FAULT LABEL PER DETAIL
 6. PROVIDE WITH INTEGRAL TVSS WITH 200,000 AMPS PER MODE PROTECTION
 7. TVSS UNIT MUST BE COMPATIBLE WITH LIGHTING PROTECTION SYSTEM TO OBTAIN THE UL MASTER LABEL
 8. PROVIDE SHUNT TRIP ON THE MAIN CIRCUIT BREAKER

PANEL - DPCR												
TYPE: 400AMP MAIN LUG		AIC: 42,000 AMPERES			MOUNTED SURFACE			VOLTAGE: 277/480 VOLTS, 3 PHASE, 4 WIRE				
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B	PHASE C						PHASE A	PHASE B	PHASE C	
PANEL SEF1	25,375	25,375	25,375	100	3	3	4	80				SPARE
PANEL LP1	9,900	9,900	9,900	100	3	7	8					BUSSED SPACE
FUTURE PANEL LP2	10,000	10,000	10,000	100	3	9	10					BUSSED SPACE
FUTURE PANEL LP3	10,000	10,000	10,000	100	3	11	12					BUSSED SPACE
T-CR	31,900	33,200	33,300	175	3	13	14					BUSSED SPACE
SUB TOTAL (VA)	86,365	88,075	88,580		3	29	30		0	0	0	SUB TOTAL (VA)

TOTAL LOAD PHASE A: 86,365 (VA)
 TOTAL LOAD PHASE B: 88,075 (VA)
 TOTAL LOAD PHASE C: 88,580 (VA)
 TOTAL LOAD: 263,020 (VA) = 317 AMPS

NOTES:
 1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION
 2. PROVIDE ARC FAULT LABEL PER DETAIL

PANEL LP1												
TYPE: 100AMP MAIN LUG		AIC: 42,000 AMPERES			MOUNTED SURFACE			VOLTAGE: 277/480 VOLTS, 3 PHASE, 4 WIRE				
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B	PHASE C						PHASE A	PHASE B	PHASE C	
LIGHTING	2,840	3,110	2,500	20	1	1	2					BUSSED SPACE
LIGHTING	3,950	3,300	2,845	20	1	3	4					BUSSED SPACE
LIGHTING	3,200	2,810	1,880	20	1	5	6					BUSSED SPACE
LIGHTING				20	1	7	8					BUSSED SPACE
LIGHTING				20	1	9	10					BUSSED SPACE
EXTERIOR LIGHTING				20	1	11	12					BUSSED SPACE
LIGHTING				20	1	13	14					BUSSED SPACE
LIGHTING				20	1	15	16					BUSSED SPACE
SPARE				20	1	17	18					BUSSED SPACE
SPARE				20	1	19	20					BUSSED SPACE
ELEV PIT LIGHTS				20	1	21	22					BUSSED SPACE
LIGHTING				20	1	23	24					BUSSED SPACE
SPARE				20	1	25	26					BUSSED SPACE
SPARE				20	1	27	28					BUSSED SPACE
EXTERIOR LIGHTING				20	1	29	30					BUSSED SPACE
SUB TOTAL (VA)	9,890	9,900	9,905		20	1	29	30		0	0	SUB TOTAL (VA)

TOTAL LOAD PHASE A: 9,890 (VA)
 TOTAL LOAD PHASE B: 9,900 (VA)
 TOTAL LOAD PHASE C: 9,905 (VA)
 TOTAL LOAD: 29,695 (VA) = 35 AMPS

NOTES:
 1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION
 2. PROVIDE ARC FAULT LABEL PER DETAIL

PANEL - SEF1												
TYPE: 25AMP MAIN LUG		AIC: 42,000 AMPERES			MOUNTED SURFACE			VOLTAGE: 277/480 VOLTS, 3 PHASE, 4 WIRE				
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B	PHASE C						PHASE A	PHASE B	PHASE C	
SEF-1A-1	2,105	2,105	2,105	20	3	1	2	20	2,155	2,105	2,105	SEF-1A
SEF-1A-2	2,105	2,105	2,105	20	3	3	4	20	1,330	1,330	1,330	SEF-3A-1
SEF-1B-1	2,105	2,105	2,105	20	3	5	6	20	1,330	1,330	1,330	SEF-3A-2
SEF-1B-2	2,105	2,105	2,105	20	3	7	8	20	1,330	1,330	1,330	SEF-3A-3
SEF-2A-1	1,330	1,330	1,330	20	3	9	10	20	1,330	1,330	1,330	SEF-3B-1
SEF-2A-2	1,330	1,330	1,330	20	3	11	12	20	1,330	1,330	1,330	SEF-3B-2
SEF-2B-1	2,105	2,105	2,105	20	3	13	14	20	1,330	1,330	1,330	SEF-3B-3
SEF-2B-2	2,105	2,105	2,105	20	3	15	16	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	17	18	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	19	20	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	21	22	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	23	24	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	25	26	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	27	28	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	29	30	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	31	32	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	33	34	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	35	36	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	37	38	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	39	40	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	41	42	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	43	44	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	45	46	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	47	48	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	49	50	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	51	52	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	53	54	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	55	56	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	57	58	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	59	60	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	61	62	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	63	64	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	65	66	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	67	68	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	69	70	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	71	72	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	73	74	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	75	76	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	77	78	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	79	80	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	81	82	20	1,330	1,330	1,330	BUSSED SPACE
SPARE				30	3	83	84	20	1,330	1,330	1,330	BUSSED SPACE
SUB TOTAL (VA)	15,290	15,290	15,290		3	83	84		10,085	10,085	10,085	SUB TOTAL (VA)

TOTAL LOAD PHASE A: 25,375 (VA)
 TOTAL LOAD PHASE B: 25,375 (VA)
 TOTAL LOAD PHASE C: 25,375 (VA)
 TOTAL LOAD: 76,125 (VA) = 92 AMPS

NOTES:
 1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION
 2. PROVIDE ARC FAULT LABEL PER DETAIL
 3. PROVIDE SHUNT TRIP TYPE CIRCUIT BREAKER

PANEL RPCR												
TYPE: 400AMP MAIN CIRCUIT BREAKER		AIC: 22,000 AMPERES			MOUNTED SURFACE			VOLTAGE: 277/480 VOLTS, 3 PHASE, 4 WIRE				
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP	POLE	(VA) PER PHASE			CIRCUIT DIRECTORY
	PHASE A	PHASE B	PHASE C						PHASE A	PHASE B	PHASE C	
PANEL RP1CR	9,200	9,600	8,700	125	3	1	2	1	9,200	9,600	8,700	SPARE
FUTURE PANEL RP2CR	10,000	10,000	10,000	125	3	3	4	1	10,000	10,000	10,000	SPARE
FUTURE PANEL RP3CR	10,000	10,000	10,000	125	3	5	6	1	10,000	10,000	10,000	SPARE
SPARE				100	3	7	8	1	10,000	10,000	10,000	SMOKE SYSTEM (NOTES)
SPARE				100	3	9	10	1	500			FACP (NOTE 3)
SPARE				100	3	11	12	1	2,000			BLOCK HEATER
SPARE				100	3	13	14	2	2,000			BATTERY HEATER
SPARE				100	3	15	16	1	1,600			BATTERY CHARGER
SPARE				100	3	17	18	20	1,600			STATOR WINDING HEATER
SUB TOTAL (VA)	29,200	29,600	28,700		3	29	30	20	2,100	3,600	4,600	SUB TOTAL (VA)

TOTAL LOAD PHASE A: 31,300 (VA)
 TOTAL LOAD PHASE B: 33,200 (VA)
 TOTAL LOAD PHASE C: 33,300 (VA)
 TOTAL LOAD: 97,800 (VA) = 272 AMPS

NOTES:
 1. PANELBOARD TO BE BOLT-ON TYPE WITH DOOR-IN-DOOR CONSTRUCTION
 2. PROVIDE ARC FAULT LABEL PER DETAIL
 3. PROVIDE LOCK HANDLE CIRCUIT BREAKER

PANEL RP1CR												
TYPE: 125AMP MAIN LUG		AIC: 22,000 AMPERES			MOUNTED SURFACE			VOLTAGE: 277/480 VOLTS, 3 PHASE, 4 WIRE				
CIRCUIT DIRECTORY	(VA) PER PHASE			AMP	POLE	CIRCUIT NUMBER	AMP					