

SERVICE SWITCHBOARD DESIGNATION : PRIMARY SERVICE SWITCHGEAR	
VOLTAGE 1200V	NEUTRAL 100%
PHASE/WIRE 3Ø, 4W	MIN. K.A.I.C. SYM 14 K.A.I.C.
BUS RATING 600 A	MAIN LUGS ONLY 600 A
REMARKS	

FEEDER SWITCH	NO.	SW SIZE	SW TYPE	FUSE	FUSE TYPE	LOAD DESCRIPTION	CONNECTED LOAD (kVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)						REMARKS
									PHASE LEGS		NEUTRAL		GROUND		
									NO.	SIZE	NO.	SIZE	NO.	SIZE	
2	-	-	-	-	-	FIRE PUMP CONNECTION	129.70		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS						
3	600A	-	150A	E		EXISTING 20 DUNNIGAN SERVICE SWITCH	2846.36		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS						
4	600A	-	80A	E		PHOTOVOLTAIC SYSTEM CONNECTION	-		REFER TO PHOTOVOLTAIC SYSTEM DRAWINGS FOR FEEDER REQUIREMENTS						
5	600A	-	150A	E		SWITCHBOARD SWBD-N VIA XFMR T-A'	1987.25		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS						
6	600A	-	40A	E		PANEL DP-10' VIA XFMR T-B'	169.92		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS						
7	-	-	-	-	-	FUTURE SWITCH	-								

PRIMARY SERVICE CALCULATIONS			
LOAD TYPE	CONNECTED LOAD	DEMAND LOAD	
LIGHTING	50.7 kW	63.4 kW (125%)	
LIGHTING+RECEPT IN Guestrooms	0.0 kW	0.0 kW	
LARGEST MOTOR	309.4 kW	386.8 kW (125%)	
OTHER MOTORS	983.1 kW	983.1 kW (100%)	
RECEPTACLES	60.2 kW	35.1 kW (>10kW, 50%)	
CONTINUOUS	164.2 kW	205.3 kW (125%)	
HEATING	10.7 kW	10.7 kW (100%)	
NONCONTINUOUS	812.5 kW	812.5 kW (100%)	
KITCHEN EQPT (COMMERCIAL)	0.0 kW	0.0 kW (65.0%)	
DIVERSE/NONCOINCIDENTAL	2542.4 kW	1271.2 kW (50.0%)	
TOTAL CONNECTED LOAD =		4933.2 kW	
TOTAL DEMAND LOAD =		3768.0 kW	
PERCENT SPARE CAPACITY =		30 %	
MINIMUM BALANCED 3-PHASE FEEDER W/ SPARE CAPACITY =		214.3 A	

DISTRIBUTION BOARD DESIGNATION : SWBD-N	
VOLTAGE 480Y/277 V	NEUTRAL 100%
PHASE/WIRE 3Ø, 4W	MIN. K.A.I.C. SYM 65 K.A.I.C.
BUS RATING 3000 A	MAIN CIRCUIT BREAKER 3000 A
REMARKS	

CIRCUIT BREAKER	NO.	FRAME	RATING/ POLES	TYPE	LOAD DESCRIPTION	CONNECTED LOAD (kVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)						REMARKS
								PHASE LEGS		NEUTRAL		GROUND		
								NO.	SIZE	NO.	SIZE	NO.	SIZE	
1	225A	225A/3P			PANEL EM-LS-H VIA 'ATS-LS'	23.44		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS						
2	800A	800A/3P			PANEL EM-EQ-H VIA 'ATS-EQ'	432.80		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS						
3	400A	400A/3P			PANEL EM-AS/RS-H VIA 'ATS-AS/RS'	141.34		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS						
4	1200A	1200A/3P			DISTRIBUTION PANELBOARD DP-AS/RS-1'	604.83		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS						
5	1200A	800A/3P			DISTRIBUTION PANELBOARD DP-AS/RS-2'	279.09		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS						
6	800A	800A/3P			PANEL DP-OFFICE'	416.67		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS						

DISTRIBUTION BOARD DESIGNATION : EMDP	
VOLTAGE 480Y/277 V	NEUTRAL 100%
PHASE/WIRE 3Ø, 4W	MIN. K.A.I.C. SYM 65 K.A.I.C.
BUS RATING 1200 A	MAIN CIRCUIT BREAKER 1200 A
REMARKS	

CIRCUIT BREAKER	NO.	FRAME	RATING/ POLES	TYPE	LOAD DESCRIPTION	CONNECTED LOAD (kVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)						REMARKS
								PHASE LEGS		NEUTRAL		GROUND		
								NO.	SIZE	NO.	SIZE	NO.	SIZE	
1	225A	225A/3P			PANEL EM-LS-H VIA 'ATS-LS'	23.44		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS						
2	800A	800A/3P			PANEL EM-EQ-H VIA 'ATS-EQ'	432.80		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS						
3	400A	400A/3P			PANEL EM-AS/RS-H VIA 'ATS-AS/RS'	141.34		REFER TO DRAWING E-701 FOR FEEDER REQUIREMENTS						
4	-	-			SPACE & PROVISIONS	-								

DISTRIBUTION BOARD DESIGNATION : EM-EQ-H	
VOLTAGE 480Y/277 V	NEUTRAL 100%
PHASE/WIRE 3Ø, 4W	MIN. K.A.I.C. SYM 65 K.A.I.C.
BUS RATING 800 A	MAIN CIRCUIT BREAKER 600 A
REMARKS	

CIRCUIT BREAKER	NO.	FRAME	RATING/ POLES	TYPE	LOAD DESCRIPTION	CONNECTED LOAD (kVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)						REMARKS
								PHASE LEGS		NEUTRAL		GROUND		
								NO.	SIZE	NO.	SIZE	NO.	SIZE	
1	-	-			SPACE & PROVISIONS	-								
2	400A	400A/3P			PANEL EM-QC-10'	393.24		REFER TO DRAWING E-703 FOR FEEDER REQUIREMENTS						
3	100A	60A/3P			ELEVATOR DISCONNECT	17.46		REFER TO DRAWING E-703 FOR FEEDER REQUIREMENTS						
4	-	-			SPACE & PROVISIONS	-								
5	-	-			SPACE & PROVISIONS	-								
6	-	-			SPACE & PROVISIONS	-								
7	150A	150A/3P			PANEL EM-EQ-L' VIA XFMR T-EM-EQ'	22.10		REFER TO DRAWING E-703 FOR FEEDER REQUIREMENTS						
8	-	-			SPACE & PROVISIONS	-								
9	-	-			SPACE & PROVISIONS	-								
10	-	-			SPACE & PROVISIONS	-								
11	-	-			SPACE & PROVISIONS	-								

DISTRIBUTION BOARD DESIGNATION : DP-ASRS-1	
VOLTAGE 480Y/277 V	NEUTRAL 100%
PHASE/WIRE 3Ø, 4W	MIN. K.A.I.C. SYM 35 K.A.I.C.
BUS RATING 1200 A	MAIN CIRCUIT BREAKER 1200 A
REMARKS	

CIRCUIT BREAKER	NO.	FRAME	RATING/ POLES	TYPE	LOAD DESCRIPTION	LOAD (kVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)						REMARKS
								PHASE LEGS		NEUTRAL		GROUND		
								NO.	SIZE	NO.	SIZE	NO.	SIZE	
1	200A	200A/3P			AS/RS SRM #2	141.34		REFER TO DRAWING E-202 FOR FEEDER REQUIREMENTS						
2	200A	200A/3P			AS/RS SRM #3	141.34		REFER TO DRAWING E-202 FOR FEEDER REQUIREMENTS						
3	100A	100A/3P			AS/RS MCP #1	20.78		REFER TO DRAWING E-201 FOR FEEDER REQUIREMENTS						
4	100A	100A/3P			AS/RS MCP #2	20.78		REFER TO DRAWING E-201 FOR FEEDER REQUIREMENTS						
5	100A	100A/3P			AS/RS MCP #3	20.78		REFER TO DRAWING E-202 FOR FEEDER REQUIREMENTS						
6	100A	100A/3P			AS/RS MCP #4	20.78		REFER TO DRAWING E-202 FOR FEEDER REQUIREMENTS						
7	100A	100A/3P			AS/RS MCP #5	20.78		REFER TO DRAWING E-202 FOR FEEDER REQUIREMENTS						
8	100A	100A/3P			AS/RS MCP #6	20.78		REFER TO DRAWING E-202 FOR FEEDER REQUIREMENTS						
9	100A	100A/3P			AS/RS MCP #7	20.78		REFER TO DRAWING E-202 FOR FEEDER REQUIREMENTS						
10	250A	250A/3P			AS/RS VRC	176.67		REFER TO DRAWING E-202 FOR FEEDER REQUIREMENTS						
11	-	-			SPACE & PROVISIONS	-								
12	-	-			SPACE & PROVISIONS	-								
13	-	-			SPACE & PROVISIONS	-								
14	-	-			SPACE & PROVISIONS	-								

DISTRIBUTION BOARD DESIGNATION : DP-ASRS-2	
VOLTAGE 480Y/277 V	NEUTRAL 100%
PHASE/WIRE 3Ø, 4W	MIN. K.A.I.C. SYM 35 K.A.I.C.
BUS RATING 800 A	MAIN CIRCUIT BREAKER 800 A
REMARKS	

CIRCUIT BREAKER	NO.	FRAME	RATING/ POLES	TYPE	LOAD DESCRIPTION	LOAD (kVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)						REMARKS
								PHASE LEGS		NEUTRAL		GROUND		
								NO.	SIZE	NO.	SIZE	NO.	SIZE	
1	100A	90A/3P			PANEL LP-AS/RS' VIA XFMR T-AS/RS'	29.04		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS						
2	150A	125A/3P			AIR COMPRESSOR (60HP)	72.50		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS						
3	150A	125A/3P			AIR COMPRESSOR (60HP) - STANDBY	72.50		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS						
4	100A	20A/3P			AIR COMPRESSOR DRYER	2.50		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS						
5	100A	90A/3P			PANEL LP-DOOR-A' VIA XFMR T-DOOR-A'	41.63		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS						
6	150A	150A/3P			PANEL PP-M'	32.38		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS						
7	100A	80A/1P			WATER HEATER WH(1)	17.45		REFER TO DRAWING E-406 FOR BRANCH CIRCUIT REQUIREMENTS						
8	100A	60A/1P			WATER HEATER WH(2)	11.10		REFER TO DRAWING E-406 FOR BRANCH CIRCUIT REQUIREMENTS						
9	-	-			SPACE & PROVISIONS	-								
10	-	-			SPACE & PROVISIONS	-								

DISTRIBUTION BOARD DESIGNATION : DP-10	
VOLTAGE 480Y/277 V	NEUTRAL 100%
PHASE/WIRE 3Ø, 4W	MIN. K.A.I.C. SYM 25 K.A.I.C.
BUS RATING 800 A	MAIN CIRCUIT BREAKER 800 A
REMARKS	

CIRCUIT BREAKER	NO.	FRAME	RATING/ POLES	TYPE	LOAD DESCRIPTION	CONNECTED LOAD (kVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)						REMARKS
								PHASE LEGS		NEUTRAL		GROUND		
								NO.	SIZE	NO.	SIZE	NO.	SIZE	
1	225A	200A/3P			PANELBOARD PPH-10A'	51.07		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS						
2	-	-			SPACE & PROVISIONS	0.00								
3	400A	300A/3P			PANELBOARD DB' VIA XFMR T-10'	68.92		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS						
4	100A	100A/3P			AS/RS MCP #9	20.78		REFER TO DRAWING E-209 FOR FEEDER REQUIREMENTS						
5	100A	100A/3P			AS/RS MCP #10	20.78		REFER TO DRAWING E-209 FOR FEEDER REQUIREMENTS						
6	225A	200A/3P			PANELBOARD PPH-10C'	8.36		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS						
7	-	-			SPACE & PROVISIONS	-								
8	-	-			SPACE & PROVISIONS	-								

DISTRIBUTION BOARD DESIGNATION : DB	
VOLTAGE 208Y/120 V	NEUTRAL 100%
PHASE/WIRE 3Ø, 4W	MIN. K.A.I.C. SYM 22 K.A.I.C.
BUS RATING 800 A	MAIN CIRCUIT BREAKER 600 A
REMARKS	

CIRCUIT BREAKER	NO.	FRAME	RATING/ POLES	TYPE	LOAD DESCRIPTION	CONNECTED LOAD (kVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)						REMARKS
								PHASE LEGS		NEUTRAL		GROUND		
								NO.	SIZE	NO.	SIZE	NO.	SIZE	
1	150A	150A/3P			PANELBOARD LP-10A'	40.10		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS						
2	100A	100A/3P			GUARD BOOTH PANELBOARD	28.82		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS						
3	-	-			SPACE & PROVISIONS	-								
4	-	-			SPACE & PROVISIONS	-								
5	-	-			SPACE & PROVISIONS	-								
6	-	-			SPACE & PROVISIONS	-								

DISTRIBUTION BOARD DESIGNATION : DP-OFFICE	
VOLTAGE 480Y/277 V	NEUTRAL 100%
PHASE/WIRE 3Ø, 4W	MIN. K.A.I.C. SYM 25 K.A.I.C.
BUS RATING 800 A	MAIN CIRCUIT BREAKER 800 A
REMARKS	

CIRCUIT BREAKER	NO.	FRAME	RATING/ POLES	TYPE	LOAD DESCRIPTION	CONNECTED LOAD (kVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)						REMARKS
								PHASE LEGS		NEUTRAL		GROUND		
								NO.	SIZE	NO.	SIZE	NO.	SIZE	
1	225A	225A/3P			PANELBOARD PP-A' VIA XFMR T-OFFICE'	95.48		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS						
2	400A	300A/3P			PANELBOARD LP-A'	139.13		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS						
3	100A	30A/3P			ROOFTOP UNIT RTU-1'	21.62		REFER TO DRAWING E-307 FOR FEEDER REQUIREMENTS						
4	100A	25A/3P			ROOFTOP UNIT RTU-2'	15.80	</							