

SERVICE SWITCHBOARD DESIGNATION : PRIMARY SERVICE SWITCHGEAR														
VOLTAGE		13200V		NEUTRAL		100%		BUS RATING		600 A				
PHASE/WIRE		3Ø, 4W		MIN. K.A.I.C. SYM		14 K.A.I.C.		MAIN LUGS ONLY		600 A				
REMARKS														

FEEDER SWITCH					LOAD DESCRIPTION	CONNECTED LOAD (KVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)								REMARKS
NO.	SW. SIZE	SW. TYPE	FUSE	FUSE TYPE				PHASE LEGS		NEUTRAL		GROUND		INSULATION TYPE	CONDUIT SIZE	
								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	2646.36		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										TOTAL CONNECTED LOAD: 1898.2 KW		
VOLTAGE		480Y/277 V		NEUTRAL		100%		BUS RATING		3000 A		TOTAL DEMAND LOAD: 1639.2 KW
PHASE/WIRE		3Ø, 4W		MIN. K.A.I.C. SYM		65 K.A.I.C.		MAIN CIRCUIT BREAKER		3000 A		
REMARKS												

CIRCUIT BREAKER				LOAD DESCRIPTION	CONNECTED LOAD (KVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)						REMARKS		
NO.	FRAME	RATING/ POLES	TYPE				PHASE LEGS		NEUTRAL		GROUND			INSULATION TYPE	CONDUIT SIZE
							NO.	SIZE	NO.	SIZE	NO.	SIZE			
1	225A	1200A/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										TOTAL CONNECTED LOAD: 597.6 KW			
VOLTAGE		480Y/277 V		NEUTRAL		100%		BUS RATING		1200 A		TOTAL DEMAND LOAD: 446.6 KW	
PHASE/WIRE		3Ø, 4W		MIN. K.A.I.C. SYM		65 K.A.I.C.		MAIN CIRCUIT BREAKER		1200 A			
REMARKS													

CIRCUIT BREAKER				LOAD DESCRIPTION	CONNECTED LOAD (KVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)								REMARKS
NO.	FRAME	RATING/ POLES	TYPE				PHASE LEGS		NEUTRAL		GROUND		INSULATION TYPE	CONDUIT SIZE	
							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										TOTAL CONNECTED LOAD: 432.8 KW			
VOLTAGE		480Y/277 V		NEUTRAL		100%		BUS RATING		800 A		TOTAL DEMAND LOAD: 242.0 KW	
PHASE/WIRE		3Ø, 4W		MIN. K.A.I.C. SYM		65 K.A.I.C.		MAIN CIRCUIT BREAKER		600 A			
REMARKS													

CIRCUIT BREAKER				LOAD DESCRIPTION	CONNECTED LOAD (KVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)						REMARKS		
NO.	FRAME	RATING/ POLES	TYPE				PHASE LEGS		NEUTRAL		GROUND			INSULATION TYPE	CONDUIT SIZE
							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 'FMR 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										TOTAL CONNECTED LOAD: 604.8 KW		
VOLTAGE		480Y/277 V		NEUTRAL		100%		BUS RATING		1200 A		TOTAL DEMAND LOAD: 604.8 KW
PHASE/WIRE		3Ø, 4W		MIN. K.A.I.C. SYM		35 K.A.I.C.		MAIN CIRCUIT BREAKER		1200 A		
REMARKS												

CIRCUIT BREAKER				LOAD DESCRIPTION	LOAD (KVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)						REMARKS		
NO.	FRAME	RATING/ POLES	TYPE				PHASE LEGS		NEUTRAL		GROUND			INSULATION TYPE	CONDUIT SIZE
							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										TOTAL CONNECTED LOAD: 279.1 KW		
VOLTAGE		480Y/277 V		NEUTRAL		100%		BUS RATING		800 A		TOTAL DEMAND LOAD: 199.3 KW
PHASE/WIRE		3Ø, 4W		MIN. K.A.I.C. SYM		35 K.A.I.C.		MAIN CIRCUIT BREAKER		800 A		
REMARKS												

CIRCUIT BREAKER				LOAD DESCRIPTION	LOAD (kVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)						REMARKS		
NO.	FRAME	RATING/ POLES	TYPE				PHASE LEGS		NEUTRAL		GROUND			INSULATION TYPE	CONDUIT SIZE
							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-A'	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										TOTAL CONNECTED LOAD: 169.9 KW		
VOLTAGE		480Y/277 V		NEUTRAL		100%		BUS RATING		800 A		TOTAL DEMAND LOAD: 172.2 KW
PHASE/WIRE		3Ø, 4W		MIN. K.A.I.C. SYM		25 K.A.I.C.		MAIN CIRCUIT BREAKER		800 A		
REMARKS												

CIRCUIT BREAKER				LOAD DESCRIPTION	CONNECTED LOAD (KVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)						REMARKS		
NO.	FRAME	RATING/ POLES	TYPE				PHASE LEGS		NEUTRAL		GROUND			INSULATION TYPE	CONDUIT SIZE
							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										TOTAL CONNECTED LOAD: 68.9 KW			
VOLTAGE		208Y/120 V		NEUTRAL		100%		BUS RATING		800 A		TOTAL DEMAND LOAD: 68.9 KW	
PHASE/WIRE		3Ø, 4W		MIN. K.A.I.C. SYM		22 K.A.I.C.		MAIN CIRCUIT BREAKER		600 A			
REMARKS													

CIRCUIT BREAKER				LOAD DESCRIPTION	CONNECTED LOAD (KVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)								REMARKS
NO.	FRAME	RATING/ POLES	TYPE				PHASE LEGS		NEUTRAL		GROUND		INSULATION TYPE	CONDUIT SIZE	
							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										TOTAL CONNECTED LOAD: 416.7 KW		
VOLTAGE		480Y/277 V		NEUTRAL		100%		BUS RATING		800 A		TOTAL DEMAND LOAD: 396.7 KW
PHASE/WIRE		3Ø, 4W		MIN. K.A.I.C. SYM		25 K.A.I.C.		MAIN CIRCUIT BREAKER		800 A		
LOCATION		ADMIN OFFICE ELECTRICAL ROOM										

CIRCUIT BREAKER				LOAD DESCRIPTION	CONNECTED LOAD (KVA)	QUANTITY OF FEEDERS (SETS)	FEEDER (EACH SET)						REMARKS		
NO.	FRAME	RATING/ POLES	TYPE				PHASE LEGS		NEUTRAL		GROUND			INSULATION TYPE	CONDUIT SIZE
							NO.	SIZE	NO.	SIZE	NO.	SIZE			
1	225A	225A/3P		PANELBOARD 'PP-A' 'VA' 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		REFER TO DRAWING E-307 FOR FEEDER REQUIREMENTS								
5	100A	25A/3P		ROOFTOP UNIT 'RTU-3'	15.80		REFER TO DRAWING E-307 FOR FEEDER REQUIREMENTS								
6	100A	15A/3P		ROOFTOP UNIT 'RTU-4'	10.81		REFER TO DRAWING E-307 FOR FEEDER REQUIREMENTS								
7	100A	15A/3P		ROOFTOP UNIT 'RTU-5'	10.81		REFER TO DRAWING E-307 FOR FEEDER REQUIREMENTS								
8	225A	225A/3P		PANELBOARD 'PP-B' 'VA' XFMR T-B'	107.24		REFER TO DRAWING E-702 FOR FEEDER REQUIREMENTS								
9	-	-		SPACE & PROVISIONS	-		-								
10	-	-		SPACE & PROVISIONS	-		-								

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,
THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020
ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

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MANHATTAN BEER DISTRIBUTORS 20 DUNNIGAN DRIVE SUFFERN, NEW YORK																	
KEY PLAN																	
																	
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ELECTRICAL PANEL SCHEDULES SHEET 1 OF 6																	
	DWG NUMBER :	E-601															