

SERVICE LOAD CALCULATION

DEFINING MAXIMUM DEMAND FROM UTILITY DEMAND
 300 KW @ 120V PHASE A 120 x 125 = 150 AMPS
 NEW INSTALLED FLA OF EV STATIONS, A NUMBER OF STATIONS & DEMAND
 77 x 3 x 1.0 = 231 AMPS
 FUTURE EV CHARGERS & NUMBER OF STATIONS & DEMAND
 27 x 2 x 1.0 = 54 AMPS
 NEW = FUTURE
 111 x 3 = 333 AMPS @ 208V PHASE
 = 51 AMPS @ 480V PHASE
 20V
 DEFINING MAX DEMAND = NEW LOAD
 336 x 1.1 = 370 AMPS
 DEFINING MFD = 1200 AMPS
 275 x 1.200 AMPS ON 480V PHASE SERVICE
 275 x 1.000 AMPS ON 480V PHASE 600W BUILDING SERVICE GENERATOR
 SERVICE LOAD IS NOT GREATER THAN DEFINING SERVICE

FANEL SCHEDULE									
EV1 SURFACE MOUNTED									
<10,000 SCA AVAILABLE									
3 PHASE 200/208 VOLTS									
225 AMP BUS 200/3 MAIN BREAKER									
SERVICE	LOAD (AMP)	BREAKER (A/F)	CIRCUIT (E/F/S)	BREAKER LOAD (AMP)	(AMP)	SERVICE	LOAD (AMP)	BREAKER (A/F)	CIRCUIT (E/F/S)
EV Charger 1	32.0	40Z	1 A	201	0.0	SPARE			
EV Charger 2	32.0	40Z	1 B	201	0.0	SPARE			
EV Charger 3	32.0	40Z	1 C	40Z	32.0	EV Charger 5			
EV Charger 4	32.0	40Z	1 D	40Z	32.0	EV Charger 6			
EV Charger 5	32.0	40Z	1 E	40Z	32.0	EV Charger 7			
EV Charger 6	32.0	40Z	1 F	40Z	32.0	EV Charger 8			
EV Charger 7	32.0	40Z	1 G	40Z	32.0	EV Charger 9			
EV Charger 8	32.0	40Z	1 H	40Z	32.0	EV Charger 10			
EV Charger 9	32.0	40Z	1 I	40Z	32.0	EV Charger 11			
EV Charger 10	32.0	40Z	1 J	40Z	32.0	EV Charger 12			
EV Charger 11	32.0	40Z	1 K	40Z	32.0	EV Charger 13			
EV Charger 12	32.0	40Z	1 L	40Z	32.0	EV Charger 14			
EV Charger 13	32.0	40Z	1 M	40Z	32.0	EV Charger 15			
EV Charger 14	32.0	40Z	1 N	40Z	32.0	EV Charger 16			
EV Charger 15	32.0	40Z	1 O	40Z	32.0	EV Charger 17			
EV Charger 16	32.0	40Z	1 P	40Z	32.0	EV Charger 18			
EV Charger 17	32.0	40Z	1 Q	40Z	32.0	EV Charger 19			
EV Charger 18	32.0	40Z	1 R	40Z	32.0	EV Charger 20			
EV Charger 19	32.0	40Z	1 S	40Z	32.0	EV Charger 21			
EV Charger 20	32.0	40Z	1 T	40Z	32.0	EV Charger 22			
EV Charger 21	32.0	40Z	1 U	40Z	32.0	EV Charger 23			
EV Charger 22	32.0	40Z	1 V	40Z	32.0	EV Charger 24			
EV Charger 23	32.0	40Z	1 W	40Z	32.0	EV Charger 25			
EV Charger 24	32.0	40Z	1 X	40Z	32.0	EV Charger 26			
EV Charger 25	32.0	40Z	1 Y	40Z	32.0	EV Charger 27			
EV Charger 26	32.0	40Z	1 Z	40Z	32.0	EV Charger 28			
EV Charger 27	32.0	40Z	1 AA	40Z	32.0	EV Charger 29			
EV Charger 28	32.0	40Z	1 AB	40Z	32.0	EV Charger 30			
EV Charger 29	32.0	40Z	1 AC	40Z	32.0	EV Charger 31			
EV Charger 30	32.0	40Z	1 AD	40Z	32.0	EV Charger 32			
EV Charger 31	32.0	40Z	1 AE	40Z	32.0	EV Charger 33			
EV Charger 32	32.0	40Z	1 AF	40Z	32.0	EV Charger 34			
EV Charger 33	32.0	40Z	1 AG	40Z	32.0	EV Charger 35			
EV Charger 34	32.0	40Z	1 AH	40Z	32.0	EV Charger 36			
EV Charger 35	32.0	40Z	1 AI	40Z	32.0	EV Charger 37			
EV Charger 36	32.0	40Z	1 AJ	40Z	32.0	EV Charger 38			
EV Charger 37	32.0	40Z	1 AK	40Z	32.0	EV Charger 39			
EV Charger 38	32.0	40Z	1 AL	40Z	32.0	EV Charger 40			
EV Charger 39	32.0	40Z	1 AM	40Z	32.0	EV Charger 41			
EV Charger 40	32.0	40Z	1 AN	40Z	32.0	EV Charger 42			
EV Charger 41	32.0	40Z	1 AO	40Z	32.0	EV Charger 43			
EV Charger 42	32.0	40Z	1 AP	40Z	32.0	EV Charger 44			
EV Charger 43	32.0	40Z	1 AQ	40Z	32.0	EV Charger 45			
EV Charger 44	32.0	40Z	1 AR	40Z	32.0	EV Charger 46			
EV Charger 45	32.0	40Z	1 AS	40Z	32.0	EV Charger 47			
EV Charger 46	32.0	40Z	1 AT	40Z	32.0	EV Charger 48			
EV Charger 47	32.0	40Z	1 AU	40Z	32.0	EV Charger 49			
EV Charger 48	32.0	40Z	1 AV	40Z	32.0	EV Charger 50			
EV Charger 49	32.0	40Z	1 AW	40Z	32.0	EV Charger 51			
EV Charger 50	32.0	40Z	1 AX	40Z	32.0	EV Charger 52			
EV Charger 51	32.0	40Z	1 AY	40Z	32.0	EV Charger 53			
EV Charger 52	32.0	40Z	1 AZ	40Z	32.0	EV Charger 54			
EV Charger 53	32.0	40Z	1 BA	40Z	32.0	EV Charger 55			
EV Charger 54	32.0	40Z	1 BB	40Z	32.0	EV Charger 56			
EV Charger 55	32.0	40Z	1 BC	40Z	32.0	EV Charger 57			
EV Charger 56	32.0	40Z	1 BD	40Z	32.0	EV Charger 58			
EV Charger 57	32.0	40Z	1 BE	40Z	32.0	EV Charger 59			
EV Charger 58	32.0	40Z	1 BF	40Z	32.0	EV Charger 60			
EV Charger 59	32.0	40Z	1 BG	40Z	32.0	EV Charger 61			
EV Charger 60	32.0	40Z	1 BH	40Z	32.0	EV Charger 62			
EV Charger 61	32.0	40Z	1 BI	40Z	32.0	EV Charger 63			
EV Charger 62	32.0	40Z	1 BJ	40Z	32.0	EV Charger 64			
EV Charger 63	32.0	40Z	1 BK	40Z	32.0	EV Charger 65			
EV Charger 64	32.0	40Z	1 BL	40Z	32.0	EV Charger 66			
EV Charger 65	32.0	40Z	1 BM	40Z	32.0	EV Charger 67			
EV Charger 66	32.0	40Z	1 BN	40Z	32.0	EV Charger 68			
EV Charger 67	32.0	40Z	1 BO	40Z	32.0	EV Charger 69			
EV Charger 68	32.0	40Z	1 BP	40Z	32.0	EV Charger 70			
EV Charger 69	32.0	40Z	1 BQ	40Z	32.0	EV Charger 71			
EV Charger 70	32.0	40Z	1 BR	40Z	32.0	EV Charger 72			
EV Charger 71	32.0	40Z	1 BS	40Z	32.0	EV Charger 73			
EV Charger 72	32.0	40Z	1 BT	40Z	32.0	EV Charger 74			
EV Charger 73	32.0	40Z	1 BU	40Z	32.0	EV Charger 75			
EV Charger 74	32.0	40Z	1 BV	40Z	32.0	EV Charger 76			
EV Charger 75	32.0	40Z	1 BW	40Z	32.0	EV Charger 77			
EV Charger 76	32.0	40Z	1 BX	40Z	32.0	EV Charger 78			
EV Charger 77	32.0	40Z	1 BY	40Z	32.0	EV Charger 79			
EV Charger 78	32.0	40Z	1 BZ	40Z	32.0	EV Charger 80			
EV Charger 79	32.0	40Z	1 CA	40Z	32.0	EV Charger 81			
EV Charger 80	32.0	40Z	1 CB	40Z	32.0	EV Charger 82			
EV Charger 81	32.0	40Z	1 CC	40Z	32.0	EV Charger 83			
EV Charger 82	32.0	40Z	1 CD	40Z	32.0	EV Charger 84			
EV Charger 83	32.0	40Z	1 CE	40Z	32.0	EV Charger 85			
EV Charger 84	32.0	40Z	1 CF	40Z	32.0	EV Charger 86			
EV Charger 85	32.0	40Z	1 CG	40Z	32.0	EV Charger 87			
EV Charger 86	32.0	40Z	1 CH	40Z	32.0	EV Charger 88			
EV Charger 87	32.0	40Z	1 CI	40Z	32.0	EV Charger 89			
EV Charger 88	32.0	40Z	1 CJ	40Z	32.0	EV Charger 90			
EV Charger 89	32.0	40Z	1 CK	40Z	32.0	EV Charger 91			
EV Charger 90	32.0	40Z	1 CL	40Z	32.0	EV Charger 92			
EV Charger 91	32.0	40Z	1 CM	40Z	32.0	EV Charger 93			
EV Charger 92	32.0	40Z	1 CN	40Z	32.0	EV Charger 94			
EV Charger 93	32.0	40Z	1 CO	40Z	32.0	EV Charger 95			
EV Charger 94	32.0	40Z	1 CP	40Z	32.0	EV Charger 96			
EV Charger 95	32.0	40Z	1 CQ	40Z	32.0	EV Charger 97			
EV Charger 96	32.0	40Z	1 CR	40Z	32.0	EV Charger 98			
EV Charger 97	32.0	40Z	1 CS	40Z	32.0	EV Charger 99			
EV Charger 98	32.0	40Z	1 CT	40Z	32.0	EV Charger 100			
EV Charger 99	32.0	40Z	1 CU	40Z	32.0	EV Charger 101			
EV Charger 100	32.0	40Z	1 CV	40Z	32.0	EV Charger 102			
EV Charger 101	32.0	40Z	1 CW	40Z	32.0	EV Charger 103			
EV Charger 102	32.0	40Z	1 CX	40Z	32.0	EV Charger 104			
EV Charger 103	32.0	40Z	1 CY	40Z	32.0	EV Charger 105			
EV Charger 104	32.0	40Z	1 CZ	40Z	32.0	EV Charger 106			
EV Charger 105	32.0	40Z	1 DA	40Z	32.0	EV Charger 107			
EV Charger 106	32.0	40Z	1 DB	40Z	32.0	EV Charger 108			
EV Charger 107	32.0	40Z	1 DC	40Z	32.0	EV Charger 109			
EV Charger 108	32.0	40Z	1 DD	40Z	32.0	EV Charger 110			
EV Charger 109	32.0	40Z	1 DE	40Z	32.0	EV Charger 111			
EV Charger 110	32.0	40Z	1 DF	40Z	32.0	EV Charger 112			
EV Charger 111	32.0	40Z	1 DG	40Z	32.0	EV Charger 113			
EV Charger 112	32.0	40Z	1 DH	40Z	32.0	EV Charger 114			
EV Charger 113	32.0	40Z	1 DI	40Z	32.0	EV Charger 115			
EV Charger 114	32.0	40Z	1 DJ	40Z	32.0	EV Charger 116			
EV Charger 115	32.0	40Z	1 DK	40Z	32.0	EV Charger 117			
EV Charger 116	32.0	40Z	1 DL	40Z	32.0	EV Charger 118			
EV Charger 117	32.0	40Z	1 DM	40Z	32.0	EV Charger 119			
EV Charger 118	32.0	40Z	1 DN	40Z	32.0	EV Charger 120			
EV Charger 119	32.0	40Z	1 DO	40Z	32.0	EV Charger 121			
EV Charger 120	32.0	40Z	1 DP	40Z	32.0	EV Charger 122			
EV Charger 121	32.0	40Z	1 DQ	40Z	32.0	EV Charger 123			
EV Charger 122	32.0	40Z	1 DR	40Z	32.0	EV Charger 124			
EV Charger 123	32.0	40Z	1 DS	40Z	32.0	EV Charger 125			
EV Charger 124	32.0	40Z	1 DT	40Z	32.0	EV Charger 126			
EV Charger 125	32.0	40Z	1 DU	40Z	32.0	EV Charger 127			
EV Charger 126	32.0	40Z	1 DV	40Z	32.0	EV Charger 128			
EV Charger 127	32.0	40Z	1 DW	40Z	32.0	EV Charger 129			
EV Charger 128	32.0	40Z	1 DX	40Z	32.0	EV Charger 130			
EV Charger 129	32.0	40Z	1 DY	40Z	32.0	EV Charger 131			
EV Charger 130	32.0	40Z	1 DZ	40Z	32.0	EV Charger 132			
EV Charger 131	32.0	40Z	1 EA	40Z	32.0	EV Charger 133			
EV Charger 132	32.0	40Z	1 EB	40Z	32.0	EV Charger 134			
EV Charger 133	32.0	40Z	1 EC	40Z	32.0	EV Charger 135			
EV Charger 134	32.0	40Z	1 ED	40Z	32.0	EV Charger 136			
EV Charger 135	32.0	40Z	1 EE	40Z	32.0	EV Charger 137			
EV Charger 136	32.0	40Z	1 EF	40Z	32.0	EV Charger 138			
EV Charger 137	32.0	40Z	1 EG	40Z	32.0	EV Charger 139			
EV Charger 138	32.0	40Z	1 EH	40Z	32.0	EV Charger 140			
EV Charger 139	32.0	40Z	1 EI	40Z	32.0	EV Charger 141			
EV Charger 140	32.0	40Z	1 EJ	40Z	32.0	EV Charger 142			
EV Charger 141	32.0	40Z	1 EK	40Z	32.0	EV Charger 143			
EV Charger 142	32.0	40Z	1 EL	40Z	32.0	EV Charger 144			
EV Charger 143	32.0	40Z	1 EM	40Z	32.0	EV Charger 145			
EV Charger 144	32.0	40Z	1 EN	40Z	32.0	EV Charger 146			
EV Charger 145	32.0	40Z	1 EO	40Z	32.0	EV Charger 147			
EV Charger 146	32.0	40Z	1 EP	40Z	32.0	EV Charger 148			
EV Charger 147	32.0	40Z	1 EQ	40Z	32.0	EV Charger 149			
EV Charger 148	32.0	40Z	1 ER	40Z	32.0	EV Charger 150			
EV Charger 149	32.0	40Z	1 ES	40Z	32.0	EV Charger 151			</