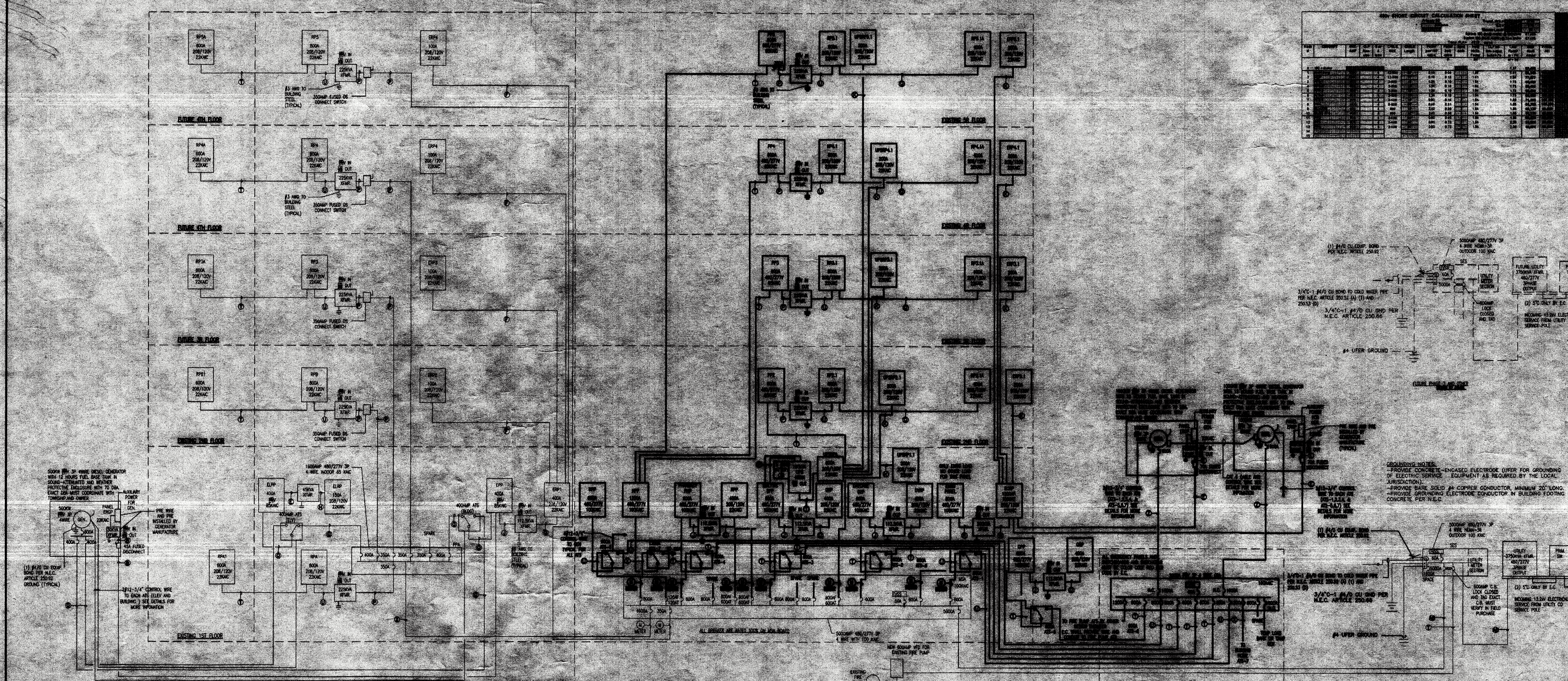




NEW ONE LINE CALCULATION SHEET

NO.	DESCRIPTION	AMPERES	VOLTS	WATTS	KVA	PHASE	TYPE	WIRE SIZE	CONDUIT	TERMINALS	NOTES
1	MAIN SERVICE	1000	480	480000	480	3	W	4/0	3"	10	
2	MAIN DISCONNECT	1000	480	480000	480	3	W	4/0	3"	10	
3	MAIN BUS	1000	480	480000	480	3	W	4/0	3"	10	
4	MAIN FEEDER	1000	480	480000	480	3	W	4/0	3"	10	
5	MAIN PANEL	1000	480	480000	480	3	W	4/0	3"	10	
6	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
7	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
8	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	
9	MAIN TERMINALS	1000	480	480000	480	3	W	4/0	3"	10	
10	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
11	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
12	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	
13	MAIN TERMINALS	1000	480	480000	480	3	W	4/0	3"	10	
14	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
15	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
16	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	
17	MAIN TERMINALS	1000	480	480000	480	3	W	4/0	3"	10	
18	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
19	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
20	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	
21	MAIN TERMINALS	1000	480	480000	480	3	W	4/0	3"	10	
22	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
23	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
24	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	
25	MAIN TERMINALS	1000	480	480000	480	3	W	4/0	3"	10	
26	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
27	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
28	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	
29	MAIN TERMINALS	1000	480	480000	480	3	W	4/0	3"	10	
30	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
31	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
32	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	
33	MAIN TERMINALS	1000	480	480000	480	3	W	4/0	3"	10	
34	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
35	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
36	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	
37	MAIN TERMINALS	1000	480	480000	480	3	W	4/0	3"	10	
38	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
39	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
40	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	
41	MAIN TERMINALS	1000	480	480000	480	3	W	4/0	3"	10	
42	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
43	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
44	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	
45	MAIN TERMINALS	1000	480	480000	480	3	W	4/0	3"	10	
46	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
47	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
48	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	
49	MAIN TERMINALS	1000	480	480000	480	3	W	4/0	3"	10	
50	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
51	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
52	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	
53	MAIN TERMINALS	1000	480	480000	480	3	W	4/0	3"	10	
54	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
55	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
56	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	
57	MAIN TERMINALS	1000	480	480000	480	3	W	4/0	3"	10	
58	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
59	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
60	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	
61	MAIN TERMINALS	1000	480	480000	480	3	W	4/0	3"	10	
62	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
63	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
64	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	
65	MAIN TERMINALS	1000	480	480000	480	3	W	4/0	3"	10	
66	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
67	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
68	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	
69	MAIN TERMINALS	1000	480	480000	480	3	W	4/0	3"	10	
70	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
71	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
72	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	
73	MAIN TERMINALS	1000	480	480000	480	3	W	4/0	3"	10	
74	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
75	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
76	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	
77	MAIN TERMINALS	1000	480	480000	480	3	W	4/0	3"	10	
78	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
79	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
80	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	
81	MAIN TERMINALS	1000	480	480000	480	3	W	4/0	3"	10	
82	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
83	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
84	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	
85	MAIN TERMINALS	1000	480	480000	480	3	W	4/0	3"	10	
86	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
87	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
88	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	
89	MAIN TERMINALS	1000	480	480000	480	3	W	4/0	3"	10	
90	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
91	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
92	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	
93	MAIN TERMINALS	1000	480	480000	480	3	W	4/0	3"	10	
94	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
95	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
96	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	
97	MAIN TERMINALS	1000	480	480000	480	3	W	4/0	3"	10	
98	MAIN WIRING	1000	480	480000	480	3	W	4/0	3"	10	
99	MAIN GROUNDING	1000	480	480000	480	3	W	4/0	3"	10	
100	MAIN PROTECTIVE	1000	480	480000	480	3	W	4/0	3"	10	

ASSISTED LIVING CENTER LOAD

DESCRIPTION	AMPERES	VOLTS	WATTS	KVA
GENERAL LIGHTING AND RECEPTACLES 240/208V	400	3	1200	VA
APPLIANCE CIRCUITS (2 CIRCUITS - 1 RECEPTACLE)			3000	VA
240 BATHROOM BRANCH CIRCUIT (NEC 210.11-3)			1500	VA
GAS WATER HEATER			300	VA
HVAC UNIT 1			5500	VA
TOTAL EACH APARTMENT LOAD			11400	VA
RECOMMENDED 400/208V PANEL FOR EACH APARTMENT				
TOTAL LOAD FOR ASSISTED LIVING	99		444000	VA
DEMAND LOAD:				
FIRST 3000 - 100%			3000	VA
3000 TO 120000 - 85%			154500	VA
REMAINDER OVER 120000 - 25%			61500	VA
TOTAL DEMAND LOAD/APT. 1			228750	VA
LOAD AMPERE			668.085	A
TOTAL ONLY FOR APARTMENT ASSISTED LIVING CENTER DEMAND LOAD			228750	VA
30 APTS. FUTURE EXPANSION			350000	VA
WASC SPACE, OFFICE AND OTHERS			150000	VA
TOTAL BUILDING LOAD			748750	VA

BUILDING B

DESCRIPTION	AMPERES	VOLTS	WATTS	KVA
FIRST FLOOR KITCHEN			25000	VA
CHILDREN DAYCARE FOR AUTISM 3000 SQ FT			30000	VA
PHARMACY			25000	VA
MISCELLANEOUS			30000	VA
NURSING ROOMS	2ND FL 9000 SQ FT	9000	27000	VA
MISCELLANEOUS			12000	VA
NURSING ROOMS	3RD FL 9000 SQ FT	9000	27000	VA
MISCELLANEOUS			12000	VA
NURSING ROOMS	4TH FL 9000 SQ FT	9000	27000	VA
MISCELLANEOUS			12000	VA
NURSING ROOMS	5TH FL 9000 SQ FT	9000	27000	VA
MISCELLANEOUS			12000	VA
SUB-TOTAL			274000	VA
DEMAND LOAD:			748750	VA
SERVICE AMPERES FOR 480/277V-3P 4 WIRE SYSTEM V _{LL} 480V			5028.26	AMP
SERVICE FEEDERS 125% OF SERVICE AMPERES			4597.26	AMP
RECOMMENDED SERVICE OF			5000	AMP

FEEDER SCHEDULE		
DESIGNATION	AMPERES	TYPE
A	20	#12
B	30	#10
C	40	3/8, 1/2 0-1 FC
D	50	1/2, 1/2 0-1 FC TRANS. PRIMARY 3/8, 1/2 0-1 FC
E	60	#8
F	70	TRANS. PRIMARY 3/8, 1/2 0-1 FC
G	80	3/8, 1/2 0-1 FC
H	90	3/8, 1/2 0-1 FC
I	100	1/2, 1/2 0-1 FC
J	125	1/2, 1/2 0-1 FC
K	150	1/2 0-1, 1/2 0-1 FC
L	175	TRANS. PRIMARY 3/8, 1/2 0-1 FC 1/2 0-1, 1/2 0-1 FC
M	200	1/2 0-1, 1/2 0-1 FC
N	225	1/2 0-1, 1/2 0-1 FC
O	250	1/2 0-1, 1/2 0-1 FC
P	300	1/2 0-1, 1/2 0-1 FC
Q	350	1/2 0-1, 1/2 0-1 FC
R	400	1/2 0-1, 1/2 0-1 FC
S	450	1/2 0-1, 1/2 0-1 FC
T	500	1/2 0-1, 1/2 0-1 FC
U	600	1/2 0-1, 1/2 0-1 FC
V	700	1/2 0-1, 1/2 0-1 FC
W	800	1/2 0-1, 1/2 0-1 FC
X	900	1/2 0-1, 1/2 0-1 FC
Y	1000	1/2 0-1, 1/2 0-1 FC
Z	1200	1/2 0-1, 1/2 0-1 FC
AA	1400	1/2 0-1, 1/2 0-1 FC
AB	1600	1/2 0-1, 1/2 0-1 FC
AC	1800	1/2 0-1, 1/2 0-1 FC
AD	2000	1/2 0-1, 1/2 0-1 FC
AE	2200	1/2 0-1, 1/2 0-1 FC
AF	2400	1/2 0-1, 1/2 0-1 FC
AG	2600	1/2 0-1, 1/2 0-1 FC
AH	2800	1/2 0-1, 1/2 0-1 FC
AI	3000	1/2 0-1, 1/2 0-1 FC
AJ	3200	1/2 0-1, 1/2 0-1 FC
AK	3400	1/2 0-1, 1/2 0-1 FC
AL	3600	1/2 0-1, 1/2 0-1 FC
AM	3800	1/2 0-1, 1/2 0-1 FC
AN	4000	1/2 0-1, 1/2 0-1 FC
AO	4200	1/2 0-1, 1/2 0-1 FC
AP	4400	1/2 0-1, 1/2 0-1 FC
AQ	4600	1/2 0-1, 1/2 0-1 FC
AR	4800	1/2 0-1, 1/2 0-1 FC
AS	5000	1/2 0-1, 1/2 0-1 FC
AT	5200	1/2 0-1, 1/2 0-1 FC
AU	5400	1/2 0-1, 1/2 0-1 FC
AV	5600	1/2 0-1, 1/2 0-1 FC
AW	5800	1/2 0-1, 1/2 0-1 FC
AX	6000	1/2 0-1, 1/2 0-1 FC
AY	6200	1/2 0-1, 1/2 0-1 FC
AZ	6400	1/2 0-1, 1/2 0-1 FC
BA	6600	1/2 0-1, 1/2 0-1 FC
BB	6800	1/2 0-1, 1/2 0-1 FC
BC	7000	1/2 0-1, 1/2 0-1 FC
BD	7200	1/2 0-1, 1/2 0-1 FC
BE	7400	1/2 0-1, 1/2 0-1 FC
BF	7600	1/2 0-1, 1/2 0-1 FC
BG	7800	1/2 0-1, 1/2 0-1 FC
BH	8000	1/2 0-1, 1/2 0-1 FC
BI	8200	1/2 0-1, 1/2 0-1 FC
BJ	8400	1/2 0-1, 1/2 0-1 FC
BK	8600	1/2 0-1, 1/2 0-1 FC
BL	8800	1/2 0-1, 1/2 0-1 FC
BM	9000	1/2 0-1, 1/2 0-1 FC
BN	9200	1/2 0-1, 1/2 0-1 FC
BO	9400	1/2 0-1, 1/2 0-1 FC
BP	9600	1/2 0-1, 1/2 0-1 FC
BQ	9800	1/2 0-1, 1/2 0-1 FC
BR	10000	1/2 0-1, 1/2 0-1 FC
BS	10200	1/2 0-1, 1/2 0-1 FC
BT	10400	1/2 0-1, 1/2 0-1 FC
BU	10600	1/2 0-1, 1/2 0-1 FC
BV	10800	1/2 0-1, 1/2 0-1 FC
BW	11000	1/2 0-1, 1/2 0-1 FC
BX	11200	1/2 0-1, 1/2 0-1 FC
BY	11400	1/2 0-1, 1/2 0-1 FC
BZ	11600	1/2 0-1, 1/2 0-1 FC
CA	11800	1/2 0-1, 1/2 0-1 FC
CB	12000	1/2 0-1, 1/2 0-1 FC
CC	12200	1/2 0-1, 1/2 0-1 FC
CD	12400	1/2 0-1, 1/2 0-1 FC
CE	12600	1/2 0-1, 1/2 0-1 FC
CF	12800	1/2 0-1, 1/2 0-1 FC
CG	13000	1/2 0-1, 1/2 0-1 FC
CH	13200	1/2 0-1, 1/2 0-1 FC
CI	13400	1/2 0-1, 1/2 0-1 FC
CJ	13600	1/2 0-1, 1/2 0-1 FC
CK	13800	1/2 0-1, 1/2 0-1 FC
CL	14000	1/2 0-1, 1/2 0-1 FC
CM	14200	1/2 0-1, 1/2 0-1 FC
CN	14400	1/2 0-1, 1/2 0-1 FC
CO	14600	1/2 0-1, 1/2 0-1 FC
CP	14800	1/2 0-1, 1/2 0-1 FC
CQ	15000	1/2 0-1, 1/2 0-1 FC
CR	15200	1/2 0-1, 1/2 0-1 FC
CS	15400	1/2 0-1, 1/2 0-1 FC
CT	15600	1/2 0-1, 1/2 0-1 FC
CU	15800	1/2 0-1, 1/2 0-1 FC
CV	16000	1/2 0-1, 1/2 0-1 FC
CW	16200	1/2 0-1, 1/2 0-1 FC
CX	16400	1/2 0-1, 1/2 0-1 FC
CY	16600	1/2 0-1, 1/2 0-1 FC
CZ	16800	1/2 0-1, 1/2 0-1 FC
DA	17000	1/2 0-1, 1/2 0-1 FC
DB	17200	1/2 0-1, 1/2 0-1 FC
DC	17400	1/2 0-1, 1/2 0-1 FC
DD	17600	1/2 0-1, 1/2 0-1 FC
DE	17800	1/2 0-1, 1/2 0-1 FC
DF	18000	1/2 0-1, 1/2 0-1 FC
DF	18000	1/2 0-1, 1/2 0-1 FC