FEEDER SCHEDULE

	FDR Nº	FROM	TO	COND SIZE	WIRE	CONN HP	F.L.A.	CONN KVA (LIGHTING)	LARGEST HP FLA	FDR AMPS (FLA + 25% LARGEST HP)	REMARKS
MCC-RV	RV-1	MCC-RV	MOTOR EXH. #2	1@ ¾"	3#12	10	14	11.6	14.0	17.5	
	RV-2	MCC-RV	MOTOR TX-1	1@ 3/4"	3#12	3	4.8	4.0	4.8	6.0	
	RV-3		SPARE								
	RV-4					—			—		
	RV-5					—			—		
	RV-6					—			—		
MCC-TC	TC-1	MCC-TC	MOTOR VE	1@ ¾"	3#12	5	7.6	6.3	7.6	9.5	
	TC-2	MCC-TC	MOTOR TX-3	1@ ¾"	3#12	1	1.8	1.5	1.8	2.25	
MCC-TV	TV-1	MCC-TV	MOTOR ACC-TV	1@ 1¼"	3#6	40	52.0	43.2	52	65.0	
	TV-2	MCC-TV	MOTOR ACR-TV	1@ ¾"	3#10	15	21.0	17.5	21	26.3	
	TV-3	MCC-TV	MCC-RV	1@ 1¼"	3#4	13	18.8	15.0	14	17.5	
	TV-4	MCC-TV	C.T. MOTOR	1@ 1¼"	3#6	40	52.0	43.2	52	65.0	
	TV-5	MCC-TV	C.T. MOTOR	1@ 1¼"	3#6	40	52.0	43.2	52	65.0	
	TV-6	MCC-TV	MCC-TC	1@ 1½"	3#4	10.5	23.2	21.0	11.0	28.0	
	TV-7	MCC-TV	MOTOR VE-1	1@ ¾"	3#12	5.0	7.6	6.3	7.6	9.5	
	TV-8	MCC-TV	FILTRATION SUCT. PMP.	1@ 3/4"	3#12	1½	2.1	1.7	2.1	2.6	
	TV-9	MCC-TV	FILTRATION PUMP MTR.	1@ 3/4"	3#12	1½	2.1	1.7	2.1	2.6	
MCC-GV	GV-1	MCC-GV	MOTOR ACC-GV	1@ 1¼"	3#6	60	80.0	69.2	80.0	100.0	
	GV-2	MCC-GV	MOTOR ACR-GV	1@ ¾"	3#10	10	14.0	11.6	14.0	17.5	
MCC-SW	SW-1	MCC-SW	MOTOR ACC-SW	1@ 1¼"	3#6	60	80.0	69.2	80.0	100.0	
	SW-2	MCC-SW	MOTOR ACR-SW	1@ ¾"	3#10	10	14.0	11.6	14.0	17.5	
MCC-4W	4W-1	MCC-4W	MOTOR ACC-4W	1@ 1¼"	3#6	60	80.0	69.2	80.0	100.0	
MCC-2E	4W-2	MCC-4W	MOTOR ACR-4W	1@ ¾"	3#10	10	14.0	11.6	14.0	17.5	
MCC-2W	2W-1	MCC-2W	MOTOR ACC-2W	1@ 1¼"	3#6	60	80.0	69.2	80.0	100.0	
	2W-2	MCC-2W	MOTOR ACR-2W	1@ ¾"	3#10	10	14.0	11.6	14.0	17.5	
MCC-GW	GW-1	MCC-GW	MOTOR ACC-GW	1@ 1¼"	3#6	60	80.0	69.2	80.0	100.0	
	GW-2	MCC-GW	MOTOR ACR-GW	1@ ¾"	3#10	10	14.0	11.6	14.0	17.5	
MCC-BW	BW-1	MCC-BW	MOTOR ACC-BW	1@ 1"	3#6	20	27.0	22.4	27.0	33.8	
	BW-2	MCC-BW	MOTOR ACR-BW	1@ ¾"	3#12	5	7.0	6.3	7.0	9.5	
	BW-3	MCC-BW	MOTOR-SP.1	1@ ¾"	3#12	7.5	11.0	9.2	11.0	13.0	
	BW-4	MCC-BW	MOTOR-V.1	1@ ¾"	3#12	3	4.0	4.0	4.8	6.0	
	BW-5	MCC-BW	SHUTTLE ELEV.	1@ 1½"	3#2	50	65	54.0	65.0	81.25	
	BW-6	MCC-BW	MOTOR V.2	1@ ¾"	3#12	3	4.8	4.0	4.8	6.0	
	BW-7	MCC-BW	MOTOR SP.2	1@ ¾"	3#12	7.5	11.0	9.2	11.0	13.8	
MCC-BA	BA-1	MCC-BA	CHW PUMP	1@ 1½"	3#2	60	77.0	64.0	77.0	96.2	STANDBY PUMP
	BA-2	MCC-BA	CHW PUMP	1@ 1½"	3#2	60	77.0	64.0	77.0	96.2	
	BA-3	MCC-BA	COND. PUMP	1@ 2"	3#½	75	96.0	79.7	96.0	120.0	
	BA-4	MCC-BA	MOTOR MERK-5	1@ 3/4"	3#12	3	4.8	4.0	4.8	6.0	
	BA-5	MCC-BA	HOUSE PUMPS	1@ 1"	3#0	2@10	28.0	23.3	14.0	81.5	
	BA-6	MCC-BA	AIR COMPR.	1@ 1"	3#8	25	34.0	28.2	34.0	42.5	
	BA-7	MCC-BA	OIL MOTOR	1@ ¾"	3#12	2	3.4	2.8	3.4	3.5	
	BA-8	MCC-BA	COND. PUMP	1@ 1"	3#8	25	34.0	28.2	34.0	42.5	
	BA-9	MCC-BA	COND. PUMP	1@ 1"	3#8	20	27.4	22.6	27.0	33.75	
DP-SW	SW-1	DP-SW	LP. BSW	1@ 2½"	4 #250 MCM	—	124.0	103.0	—	155.0	
	SW-2	DP-SW	LP. BNW	1@ 2½"	4 #250 MCM	—	124.0	103.0	—	155.0	
	SW-3	DP-SW	LP. BNE	1@ 2½"	4 #250 MCM	—	124.0	103.0	—	155.0	
	SW-4	DP-SW	LP. BSE	1@ 2½"	4 #250 MCM	—	124.0	103.0	—	155.0	
	SW-5	DP-SW	LP. CL - SEC. I	1@ ½"	4 #	—	19.3	16.0	—	25.0	
	SW-6	DP-SW	UDP. SW	1@ ¾	4 # 4/0	—	190.0	112.5	—	170.0	
	SW-7	DP. SW	LP-CL - SEC II	1@ 3/4"	4 # 1	—	19.3	16.0		25.0	
UDP-SW	SW-1	UDP-SW	DIM. RACK BE	1@ 2"	4 # 4/0	—	190.0	48	—	167.0	
	SW-2	UDP-SW	DIM. RACK BW	1@ 2"	4 # 4/0	—	190.0	48	—	167.0	
PP-EL-WA	WA-1	PP-EL-WA	PASS ELEV. #4	1@ 1¼"	3#6	35	65.0	54.0	65.0	91.0	= (1.4 X FLA)
	WA-2	PP-EL-WA	PASS ELEV. #6	1@ 1¼"	3#8	35	65.0	54.0	65.0	91.0	= (1.4 X FLA)
	WA-3	PP-EL-WA	PASS ELEV. #2	1@ 1¼"	3#3	35	65.0	54.0	65.0	91.0	= (1.4 X FLA)
	WA-4	PP-EL-WA	CONTROL VIA ATS #9	1@ ¾"	3#10	—	25.3	21	—	25.3	
PP-EL-WB	WB-1	PP-EL-WB	PASS ELEV. #1	1@ 1¼"	3#3	35	65.0	54.0	54.0	91.0	= (1.4 X FLA)
	WB-2	PP-EL-WB	PASS ELEV. #3	1@ 1¼"	3#3	35	65.0	54.0	54.0	91.0	= (1.4 X FLA)
	WB-3	PP-EL-WB	SERV. ELEV. #1	1@ 2"	3#4/0	45	135.0	112.5	112.0	157.0	= (1.4 X FLA)
	WB-4	PP-EL-WB	CONTROL VIA ATS #9	1@ ¾"	3#10	—	—	21	—	25.3	STANDBY CIRC.
MAIN UNIT SUBSTATION 'A' - 2500 KVA PAC - 3925 KVA	USA-1	MAIN UNIT SUB 'A'	FIRE PUMP	1@ 2"	3#3/0	75	96.0	79.7	96.0	120.0	
	USA-2	MAIN UNIT SUB 'A'	BUS DUCT N.W.	4@ 4"	1@ 750 MCM	—	809	721.0	—	1087.0	VIA 1200A BUS DUCT
	USA-3	MAIN UNIT SUB 'A'	BUS DUCT S.W.	4@ 4"	1@ 750 MCM	—	809	721.0	—	1087.0	VIA 1200A BUS DUCT
		MAIN UNIT SUB 'A'	MAIN CIRC. BKR.	—	—						
	USA-4	MAIN UNIT SUB 'A'	MCC - BW, SW, 2W	1@ 3"	3-500 MCM	140.0	184.0	152.8	65.0	201.0	HP=(82+81+80+51+80+71+85) x 1.15 = 1350
	USA-5	MAIN UNIT SUB 'A'	MCC - TV	1@ 3"	3-500 MCM	167.0	218.0	231.0	52.0	65.0	HP=(101+80+105+78+83+ 110+115+35+40+182 HP
	USA-6	MAIN UNIT SUB 'A'	PP. EL - WA	1@ 3½"	4-350 MCM	200 HP 251 KVA	220.6	182.9	65.0	253.6	HP=75 @ 85 = 21 KVA
	USA-7	MAIN UNIT SUB 'A'	PP. EL - EB	1@ 3½"	4-350 MCM	200 HP 251 KVA	220.6	182.9	65.0	253.6	HP=75 @ 85 + 21 KVA
	USA-8	MAIN UNIT SUB 'A'	MCC - BA	1@ 4"	4-500 MCM	250	277.2	230.2	90.0	301.2	HP=275+250+250+250+250 +125 = 1200 HP
	USA-9	MAIN UNIT SUB 'A'	DP. SW	2@ 4"	4-500 MCM	—	672.0	558.5	—	840.0	USE TWIN WIRE
	USA-10	MAIN UNIT SUB 'A'	MCC-BW, SW, 2W TO TV (EMERG. SECTION)	1@ 2"	3-500 MCM	112.0	161.2	133.8	21.0	166.5	NORMAL EMERG. VIA #2
	USA-11	MAIN UNIT SUB 'A'	MCC-BW TO GW	1@ 4½"	3-500 MCM	120.0	160.0	132.8	40.0	170.0	HP=4@ 30 = 120 HP.
	USA-12	MAIN UNIT SUB 'A'	KITCHEN (HVAC)	2@ 3"	3-350 MCM	—	392.0	325.5	90.0	416.0	
	USA-13	MAIN UNIT SUB 'A'	DP. TD	1@ 3"	4-350 MCM	250 HP 199 KW	1.66	136	1.5	234	
	USA-14	MAIN UNIT SUB 'A'	SPARE CB	—							
	USA-15	MAIN UNIT SUB 'A'									
	USA-16						TOTAL CONN. KVA = 7807				
	USA-17										
	USA-18										
	USA-19										
	USA-20										
	USA-21										

FEEDER SCHEDULE

	FDR Nº	FROM	TO	COND SIZE	WIRE	CONN HP	F.L.A.	CONN KVA (LIGHTING)	LARGEST HP FLA	FDR AMPS (FLA + 25% LARGEST HP)	REMARKS
MCC-RES	RES-2	MCC-RES	MOTOR TX-2	1@ ¾"	3#12	5	7.6	6.3	7.6	9.5	
	RES-3	MCC-RES	MOTOR MERK-9	1@ ¾"	3#12	10	14.0	11.6	14.0	17.5	
MCC-REN	REN-1	MCC-REN	UNIT HTR - UH #6	1@ ¾"	3#12	—	9.2	7.7	—	11.5	
	REN-2	MCC-REN	UNIT HTR - UH #7	1@ ¾"	3#12	—	9.2	7.7	—	11.5	
	REN-3	MCC-REN	UNIT HTR - UH #9	1@ ¾"	3#12	—	4.2	3.5	—	5.3	
	REN-4	MCC-REN	MCC-RES	1@ 1"	3#8	15.0	21.6	17.9	14	25.1	
	REN-5	MCC-REN	DOOR OPENER	1@ ¾"	3#12	0.5	1.0	0.83	1.0	1.25	
MCC-TE	TE-1	MCC-TE	MOTOR ACC-TE	1@ 1¼"	3#6	40	52.0	43.2	52.0	65.0	
	TE-2	MCC-TE	MOTOR ACR-TE	1@ ¾"	3#10	15	21.0	17.5	21.0	26.2	
	TE-3	MCC-TE	PP-EE4	1@ 1"	3#8	7½ HP 11 KW 10 HP 7.5 KW	15.2	12.6	1.4	16.6	
	TE-4	MCC-TE	MCC-REN	1@ 1½"	3#4	44.8	57.2	21.0	50.0	HP=½+15+16.9 KW	
	TE-5	MCC-TE	MOTOR VE-2	1@ ¾"	3#12	5.0	7.6	6.3	7.6	9.5	
MCC-GE	GE-1	MCC-GE	MOTOR ACC-GE	1@ 1¼"	3#6	60	80.0	69.2	80.0	100.0	
	GE-2	MCC-GE	MOTOR ACR-GE	1@ ¾"	3#10	10	14.0	11.6	14.0	17.5	
MCC-SE	SE-1	MCC-SE	MOTOR ACC-SE	1@ 1¼"	3#6	60	80.0	69.2	80.0	100.0	
	SE-2	MCC-SE	MOTOR ACR-SE	1@ ¾"	3#10	10	14.0	11.6	14.0	17.5	
MCC-2E	2E-1	MCC-2E	MOTOR ACC-2E	1@ 1¼"	3#6	40	52.0	43.2	52.0	65.0	
	2E-2	MCC-2E	MOTOR ACR-2E	1@ ¾"	3#10	10	14.0	11.6	14.0	17.5	
MCC-GE	GE-1	MCC-GE	MOTOR ACC-GE	1@ 1¼"	3#6	40	52.0	43.2	52.0	65.0	
	GE-2	MCC-GE	MOTOR ACR-GE	1@ ¾"	3#10	10	14.0	11.6	14.0	17.5	
MCC-BE	BE-1	MCC-BE	MOTOR ACC-BE	1@ 1"	3#0	20	27.0	22.4	27.0	33.8	
	BE-2	MCC-BE	MOTOR ACR-BE	1@ ¾"	3#12	5	7.0	6.3	7.0	9.5	
	BE-3	MCC-BE	MOTOR SP.1E	1@ ¾"	3#12	7.5	11.0	9.2	11.0	13.8	
	BE-4	MCC-BE	MOTOR V.1E	1@ ¾"	3#12	3	4.0	4.0	4.8	6.0	
	BE-5	MCC-BE	MOTOR P.1	1@ ¾"	3#12	¾	1.4	1.2	1.4	1.8	
	BE-6	MCC-BE	MOTOR P.2	1@ ¾"	3#12	¾	1.4	1.2	1.4	1.8	
	BE-7	MCC-BE	SHUTTLE ELEV.	1@ 1½"	3#2	50	65	54.0	65	81.25	
MCC-BB	BB-1	MCC-BB	CHW PUMP	1@ 1½"	3#2	60	77.0	64.0	77.0	96.2	
	BB-2	MCC-BB	COND. H2O PUMP	1@ 2"	3#½	75	96.0	79.7	96.0	120.0	STANDBY PUMP
	BB-3	MCC-BB	COND. H2O PUMP	1@ 2"	3#½	75	96.0	79.7	96.0	120.0	
	BB-4	MCC-BB	JOCKEY PUMP	1@ ¾"	3#12	3	4.8	4.0	4.8	6.0	
	BB-5	MCC-BB	AIR COMPR.	1@ 1"	3#8	25	34.0	28.2	34.0	42.5	
	BB-6	MCC-BB	TENANT COND. PUMP	1@ 1"	3#8	25	34.0	28.2	34.0	42.5	
	BB-7	MCC-BB	OIL HTR.	1@ ¾"	3#12	2	3.4	2.8	3.4	3.5	
	BB-8	MCC-BB	PP-CV CONVEYOR MTR	1@ 1½"	3#6	27	30.4	41.9	1.4	52.8	HP=36@ 3/4"
PP-EL-EA	EA-1	PP-EL-EA	PASS ELEV. #10	1@ 1¼"	3#3	35	65	54	65	91.0	1.4 x FLA
	EA-2	PP-EL-EA	PASS ELEV. #12	1@ 1¼"	3#3	35	65	54	65	91.0	1.4 x FLA
	EA-3	PP-EL-EA	PASS ELEV. #8	1@ 1¼"	3#3	35	65	54	65	91.0	1.4 x FLA
	EA-4	PP-EL-EA	CONTROL VIA ATS #10	1@ ¾"	3#10	—	25.3	21	—	25.3	
PP-EB	EB-1	PP-EL-EB	PASS ELEV. #11	1@ 1¼"	3#3	35	65	54	65	91.0	1.4 x FLA
	EB-2	PP-EL-EB	PASS ELEV. #7	1@ 1¼"	3#3	35	65	54	65	91.0	1.4 x FLA
	EB-3	PP-EL-EB	PASS ELEV. #9	1@ 1¼"	3#3	35	65	54	65	91.0	1.4 x FLA
	EB-4		CONTROL VIA ATS #10	1@ ¾"	3#10	—	25.3	21	—	25.3	
			CTOR PUMPS	1½ 3/4"	3#12	10	15.2	12.7	7.6	17.1	
			AFETY SYSTEM	1@ 3/4"	3#10	—	100	15	—	225	VIA 15 KVA TRANSF.
			EMT-ELP-CE	1@ 1¼"	4#0	—	40.0	33.3	—	54.0	
			EMT-ELP-SW	1@ 1¼"	4#0	—	40.0	33.3	—	54.0	
MAIN UNIT SUBSTATION 'B' - 2500 KVA PAC - 3925 KVA	USB-1	MAIN UNIT SUB 'B'	BUS DUCT RISER NE	4@ 4"	1@ 750 MCM	—	809.0	721.0	—	1087	VIA 1200 A BUS DUCT
	USB-2	MAIN UNIT SUB 'B'	BUS DUCT RISER SE	4@ 4"	1@ 750 MCM	—	809.0	721.0	—	1087	VIA 1200A BUS DUCT
			MAIN CIRC. BKR.								
	USB-4	MAIN UNIT SUB 'B'	MCC - TE	1@ 2½"	3-300 MCM	150 @ 2.5 HP 50 @ 10 KW	112.6	95.4	52.0	125.5	NORMAL (HP=1@1+50+3@5 +1@40) + 10@40
	USB-5	MAIN UNIT SUB 'B'	PP-EL-WB	2@ 3½"	2-350 MCM	150 HP 211.2 KVA	255.5	216.0	195.0	390.0	HP=3@65+45+2 = 21 KVA
	USB-6	MAIN UNIT SUB 'B'	PP-EL-EA	1@ 3½"	4-350 MCM	200 HP 281.2 KVA	220.6	186.0	65.0	297.0	HP=3@65+45+21 KVA
	USB-7	MAIN UNIT SUB 'B'	PP-EL-EB	1@ 2½"	4-300 MCM	1.2 MW 855 KW	117.6	97.6	7.6	120.0	HP=2@5+3+65 KW
	USB-8	MAIN UNIT SUB 'B'	MCC - EB	1@ 4"	6-500 MCM	217	287.0	239.0	90.0	311.0	HP=275+3@5+2@25 +175 = 90 = 217
	USB-9	MAIN UNIT SUB 'B'	MCC-BE, GE, 4E TOTAL	1@ 2½"	4-400 MCM	97	197.6	114.4	21@	143.0	NORMAL (HP=2@75+65+ EMERG. LTS +2@ 10+15=17
	USB-10	MAIN UNIT SUB 'B'	MCC-BE, GE, 2E	1@ 3"	3-500 MCM	150	198.0	165.0	65	210.0	NORMAL (HP=2@75+50 +2@10)
	USB-11	MAIN UNIT SUB 'B'	MCC-BE TO GE	1@ 2½"	2-350 MCM	120	160.0	133.0	40	170.0	NORMAL (HP=4@30=120)
	USB-12	MAIN UNIT SUB 'B'	KITCHEN (HVAC)	2@ 3½"	2-300 MCM	—	602.0	501	—	602.2	
	USB-13	MAIN UNIT SUB 'B'	PP-2	2@ 3½	2-350 MCM	350	448	368	75	552	
	USB-14	MAIN UNIT SUB 'B'	SPARE C.B.								
	USB-15										
	USB-16						TOTAL CONN KVA = 3620				
	USB-17										
	USB-18										
	USB-19										
	USB-20										
	USB-21										
UNIT SUB STATION (SWITCHGEAR) 15 KV	UNIT SUB 'C'	UNIT SUB 'C'	CHILLER NO 1	1@ 3"	3#4-5 KV	350 HP @ 480 V 400 HP @ 415 V	67.4	48.5	67.4	84.3	
	UNIT SUB 'C'	UNIT SUB 'C'	CHILLER NO 2	1@ 3"	3#4-5 KV	350 HP @ 480 V 400 HP @ 415 V	67.4	48.5	67.4	84.3	
PRIMARY SWITCHGEAR 15 KV	P-1	PRIMARY SW. GR.	MAIN CIRC. BKR.	1@ 5"	3-500 MCM	—	4860	10,080	—	4860	500 MCM RATED FOR 465A 100% LF & 500A @ 75% LF
	P-2	PRI-METERING									
	P-3	PRI-METERING									
	P-4	PRI-FUSED SW.	UNIT SUB 'A'	1@ 3"	3#4/0 15 KV	—	161.0	3807.6	—	161.0	#4/0 RATED FOR 223A 100% LF
	P-5	PRI-FUSED SW.	UNIT SUB 'B'	1@ 3"	3#4/0 15 KV	—	161.0	3628.4	—	161.0	#4/0 RATED FOR 223A 100% LF
	P-6	PRI-FUSED SW.	UNIT SUB 'C'	1@ 3"	3#2 5 KV	—	47.0	970	23.0	52.9	#2 RATED FOR 130A 100% LF
	P-7	PRI-FUSED SW.	EXIST. BLDG #2		3#4/0 15 KV	—	119.0	2460	—	119.0	#4/0 RATED FOR 223A 100% LF
	P-8	PRI-FUSED SW.	UNIT SUB 'D'	1@ 3"	3#2-5 KV	—	64.0	1320	—	64	#2 RATED FOR 130A 100% LF
	P-9	PRI-FUSED SW.	SPARE								

NOTE: * 1. ALUMINUM CABLE TYPE "XHHW" - 600V - 75°C RATING (PER ALTERNATE #16000-1)
2. ALL OTHER CABLES ARE COPPER TYPE "THW" OR "THHN" OTHERWISE NOTED.

ELECTRICAL PLAN CHECK NOTES

1. ALL HIGH & MEDIUM VOLTAGE (4.16 KV TO 15 KV) CABLES SHALL BE SHIELDED TYPE - 3 SINGLE CONDUCTOR COPPER, GROUNDED, EXTRUDED SEMI-CONDUCTING COMPOUND SHIELD STRAND, E.P. INSULATION WITH DRAIN LINES IN EXTRUDED SEMI-CONDUCTING POLYETHYLENE JACKET & PVC UNJSHIELD ANACONDA OR AS APPROVED.
2. COMPLETE DIMMER BANK ASSEMBLY SHALL BEAR THE UL LABEL.
3. DIMMER RACKS & THE INDIVIDUAL BRANCH PROTECTION FOR EACH DIMMER SHALL BE AS SHOWN ON DWG. E-27.
4. ALL UNIT SUBSTATIONS - A & B SHALL HAVE GROUND FAULT PROTECTION OF THE ZERO PHASE SEQUENCE TYPE FOR EVERY MAIN & SUB MAIN CIRCUIT BREAKER & EACH FEEDER CIRCUIT BREAKER EACH TO HAVE INDIVIDUAL ADJUSTABLE CURRENT TRIP SETTING & TIME DELAY SETTING.
5. GROUNDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE. SEE DWG. E-29 & GROUND RISER DIAGRAM ON DWG. E-24.
6. ALL TRANSFORMERS IN ELECTRICAL CLOSET SHALL BE CEILING MOUNTED ON TRAPEZE TYPE HANGERS UNLESS OTHERWISE NOTED. TRANSFORMER SHALL BE HIGH ENOUGH TO PERMIT CLEAR PASSAGE BELOW.
7. MOTOR STARTER GROUPS SHOWN ON EACH FLOOR SHALL CONSIST OF COMBINATION FUSE & SWITCH MOTOR STARTERS MOUNTED UNDER & OVER A 60" x 60" SUITABLE LENGTH WIREWAY. ONE SECTION SHALL BE WIRED WITH NORMAL FEEDER SUPPLY, A PAIR SECTION SHALL BE WIRED FOR NORMAL EMERGENCY FEEDER ARRANGEMENT. A BARRIER OR INDIVIDUAL WIREWAY ARRANGEMENT SHALL SEPARATE THE NORMAL EMERGENCY SIDE FROM THE NORMAL FEEDER SECTION. ALL MOTOR CONNECTED TO THE NORMAL EMERGENCY SIDE SHALL OPERATE AS PART OF THE LIFE SAFETY SYSTEM TO PROVIDE SMOKE EXHAUST UNDER FIRE RELATED EMERGENCY SITUATIONS. SEQUENCE SHALL BE PROGRAMED BY THE LIFE SAFETY CENTRAL CONTROLLER.
8. LIGHTING CONTROL IN THE LARGE TENANT OFFICE AREAS IN EACH FLOOR IS ARRANGED AS FOLLOWS: EACH FLOOR IS DIVIDED INTO 4 QUADRANTS - NE, SE, NW, SW. ALL LIGHTING IN EACH QUADRANT IS ACCOMPLISHED WITH 2' X 4' FLUORESCENT LIGHTING FIXTURE WITH 3 - 96 WATT FLUORESCENT LAMPS PER FIXTURE. BALLAST ARE ARRANGED TO PERMIT LIGHTING EITHER ONE (1) LAMP IN EACH FIXTURE, TWO (2) LAMPS IN EACH FIXTURE OR (3) LAMPS IN EACH FIXTURE CONTROL IS ACHIEVED BY MEANS OF 4 SETS OF RELAYS IN EACH QUADRANT ELECTRICAL CLOSET. THESE RELAYS ARE OPENED OR CLOSED BY SWITCHING FROM THE SECURITY CONSOLE THAT CONTROLS THE LIFE SAFETY SYSTEM. AT A PREDETERMINED TIME IN THE EVENING ONE 1/C WILL SWITCH OFF ONE TUBE IN EACH FIXTURE TO PERMIT CLEANING PERSONNEL TO OPERATE. AT A FURTHER TIME IN THE EVENING TWO TUBES WILL BE SWITCHED OFF & ONE TUBE WILL BE SWITCHED ON AGAIN. AT A FINAL PREDETERMINED TIME ALL LAMPS WILL BE SWITCHED OFF EXCEPT FOR NITE LIGHTING WHICH WILL REMAIN ON AT ALL TIMES.

   A FURTHER DEGREE OF ENERGY CONTROL IS ACCOMPLISHED AS FOLLOWS: THE FIRST 4 ROWS OF LIGHTING FIXTURE ALONG THE SOUTH FACADE OF THE BUILDING ARE CONTROLLED BY INDIVIDUAL DIMMERS ONE PER CIRCUIT & CONTROLLED AUTOMATICALLY BY A LIGHT SENSITIVE PHOTO CELL MOUNTED IN THE CEILING. THIS PERMITS LIGHT CONTRIBUTION FROM THE SUN ON BRIGHT DAYS TO MAKE UP THE REQUIRED ILLUMINATION LEVELS IN THESE AREAS DIRECTLY ADJACENT TO THE SOUTH WINDOW LINE.

   LIGHTING FIXTURE SCHEDULE IS SHOWN ON DWG. E-27
9. ALL LP PANELS CONNECTED TO BUS DUCT RISERS HAVE THEIR LOADS COMPUTED AS FOLLOWS:
   EACH BUS RISER TAKES 1/4 OF BLDG. AREA = 62000 ☐'/FL = 15,500 ☐'/FL / RISER.

   TOTAL BLDG. SQ. FT. = 310,000 ☐'
   LESS CORE = 10 @ 3000 = 48000 ☐'
   LESS CAFETERIA BLDG. = 27,000 ☐'
   NET = 440,700 ☐'

   440,700 X 7.8 VA/☐' (DESIGN) = 3617 KVA
   CORE AREAS X 2.0 VA/☐' = 96 KVA
   TOTAL = 3809 KVA

   8 PANELS PER RISER X 4 RISER: 3809/32 = 109 KVA PER PANEL

   LP PANELS ARE SIZED AS FOLLOWS:
   EACH LP SERVES A 45 KVA TRANSFORMER THAT NORMALLY SUPPLIES 2 LP PANELS - 45/2 = 25 KVA PER LP PANEL

   (ACTUAL EXPECTED LOAD SHOULD NOT EXCEED 2 WATT/☐' OR APPROX. 15 KVA PER PANEL = 62000 ☐'/FL X 2W/☐' = 124000/FL = 15.5 KVA 8 PANELS/FL)

   10 ALL FLUORESCENT LIGHTING FIXTURE WILL CONTAIN ENERGY EFFICIENT BALLAST.
11. FOR MOTOR STARTER GROUP LOCATIONS AND SCHEDULE - SEE DRAWING E-26.

Norwalk
Building 43

Norwalk, California

Skidmore, Owings & Merrill
Architects/Engineers
One Maritime Plaza
San Francisco, California

Jaros, Baum & Bolles
Consulting Engineers
345 Park Avenue
New York, New York

Approved for the Owner by

Approved for the Architect by

Drawn by | Job Number

Checked by | Date

Revisions

No.	Revisions Indicated thus △1	Date
1	ADDENDUM NO. 37 ISSUED FOR BUILDING PERMIT	4-30-82
2	ADDENDUM #78	10-1-82
3	ADDENDUM #100	1-19-83
4	ADDENDUM #112	4-19-83
5	ADDENDUM #113	4-22-83

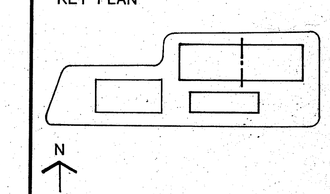
AS BUILT - 1-5-84

1	KW AS BUILT UPDATE		TU	LD
NO.	DATE	REVISIONS	DRN	CHK PROJ ENG

BECHTEL LOS ANGELES JOB NO. 648-0080

EE 8740

KEY PLAN



FEEDER SCHEDULE

E-31

2-15-84