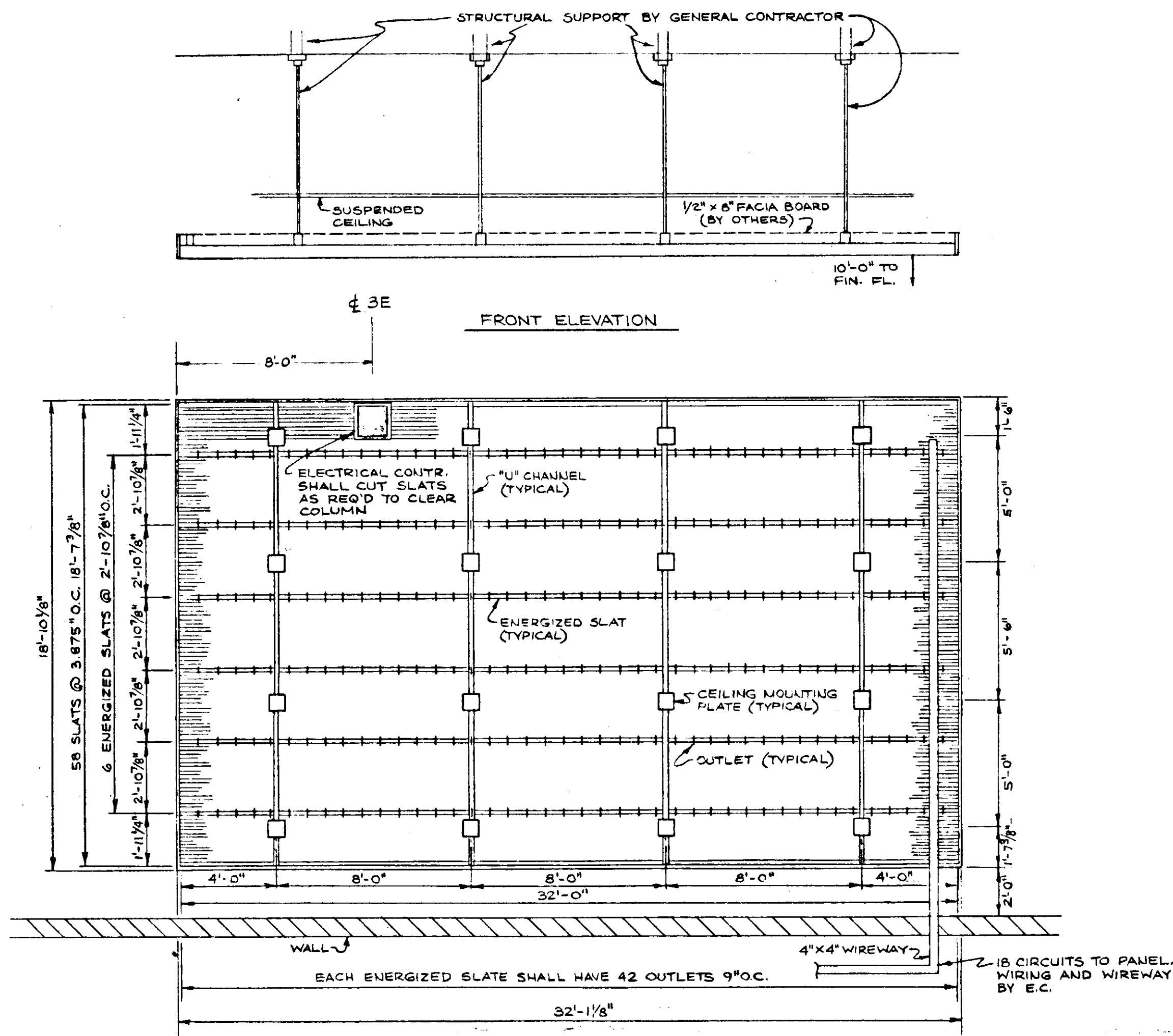
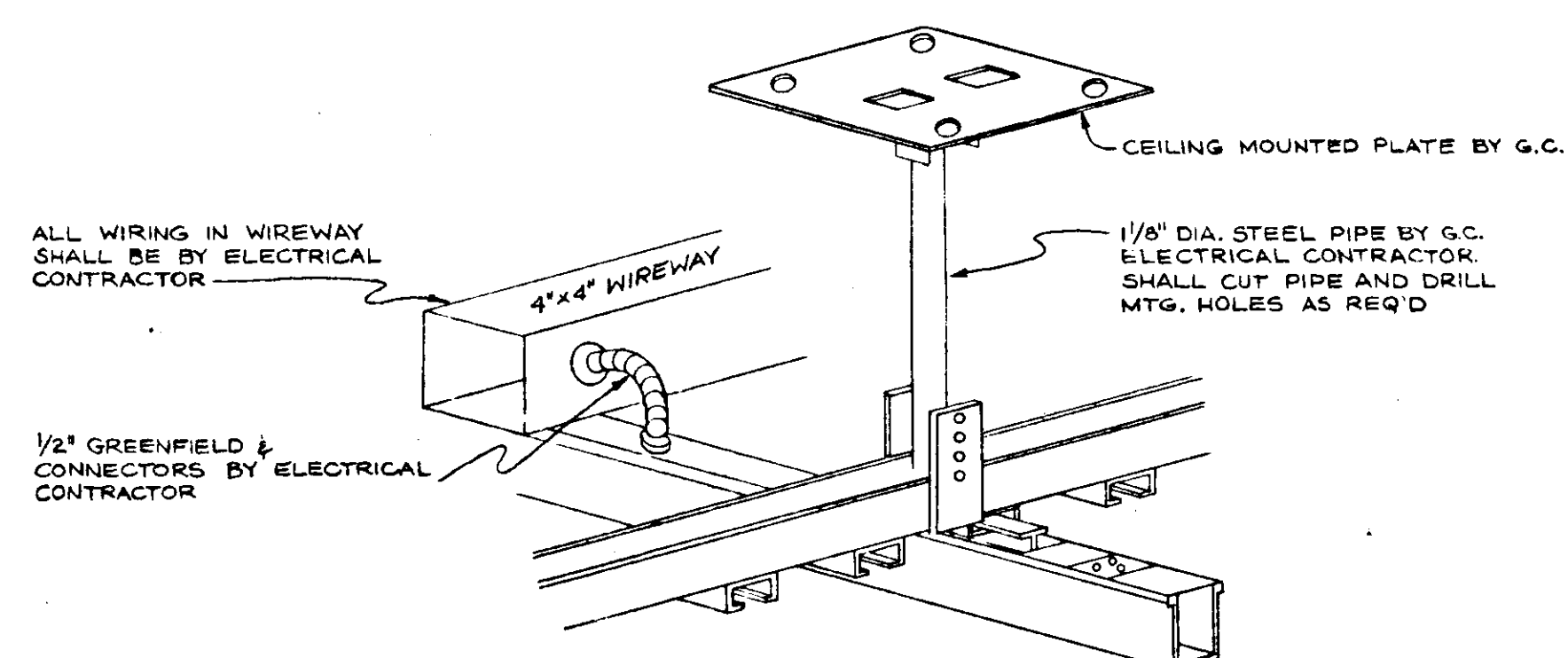




TOP PLAN VIEW
SCALE: 1/4\"/>



TYPICAL INSTALLATION DETAIL
NO SCALE

21' x 32' LIGHTING FIXTURE DISPLAY CANOPY DETAIL

MIROFLECTOR CAT. NO. CG 3210, 320 OUTLETS ON 24 CIRCUITS, 1/3 CIRCUIT PER ENERGIZED SLAT

DRY - TYPE TRANSFORMER SCHEDULE													
Nº	KVA	PRIMARY				SECONDARY				TAPS	MOUNTING		
		VOLTS	Ø	FEEDER Nº	SIZE CDT	VOLTS	Ø	FEEDER Nº	SIZE CDT				
T-1	37.5	480/3	3	3	6 1"	120/208	3	4	1 2"	2-2 1/2 FCBN	WALL, STORAGE "225		
T-2	37.5	480/3	3	3	6 1"	120/208	3	4	1 2"	DO.	WALL, ABOVE PNL "L"		
T-3	30	480/3	3	3	8 1"	120/208	3	4	2 2"	DO.	WALL, JANITORS 236		
T-4	75	480/3	3	3	2 1/4"	120/208	3	4	250 3"	DO.	WALL, STORAGE 257		
T-5	15	480/3	3	3	10 3/4"	120/208	3	4	8 1"	DO.	WALL, ABOVE PNL "CR"		
T-6	30	480/3	3	3	8 1"	120/208	3	4	2 2"	DO.	WALL, ABOVE PNL "TV"		
T-7	150	480/3	3	3	4 1/2"	120/208	SEE POWER RIZER			DO.	WALL, ABOVE PNL "LPIV"		
T-9	30	480/3	3	3	8 1"	120/208	3	4	2 2"	DO.	WALL, ABOVE PNL "ES"		
T-10	200	480/3	3	3	2 1/2"	120/208	3	8	350 2-3/2"	DO.	WALL, ABOVE PNL "DR-2"		
T-15	150	480/3	3	3	3 1/2"	120/208	SEE POWER RIZER			DO.	WALL, ABOVE PNL "LPIV"		
T-15	50	480/3	3	3	6 1"	120/208	SEE POWER RIZER			DO.	WALL, ABOVE PNL "LPIV"		
T-17	25	480/3	3	3	10 3/4"	120/208	3	4	4 1 1/2"	DO.	WALL, ABOVE PNL "PPG"		
T-18	6	480/3	3	3	12 3/4"	120/208	3	4	10 3/4"	DO.	WALL, ABOVE PNL "ELI"		
T-19	6	480/3	3	3	12 3/4"	120/208	3	4	10 3/4"	DO.	WALL, ABOVE PNL "ELI"		
T-20	25	480/3	3	3	10 3/4"	120/208	3	4	4 3/4"	DO.	WALL, ABOVE PNL "ELI"		
T-21	15	480/3	3	3	12 3/4"	120/208	3	4	8 1"	DO.	WALL, ABOVE PNL "P"		
T-22	60	480/3	3	3	4 1/4"	120/208	SEE POWER RIZER			DO.	WALL, ABOVE PNL "O"		
T-24	112.5	480/3	3	3	1/2 2"	120/208	SEE POWER RIZER			DO.	WALL, ABOVE PNL "PPK"		
T-26	45	480/3	3	3	8 1"	120/208	3	4	1 2"	DO.	WALL, ABOVE PNL "PMB"		

MOTOR CONTROL CENTER "MCCI" SCHEDULE													
CIRCUIT Nº	VOLTS	Ø	CB		STARTER	CONTROL DEVICE	WIRING	CDT	LOAD DESCRIPTION				
			POLE	TRIP									
1	480	3	-	-	-	-	500 3/2"	3/2"	INCORPORATING LINE SECTION				
2	480	3	3	70	MCP	30	3	6 1"	AIR HANDLING UNIT UO.1				
3	480	3	3	70	MCP	30	3	6 1"	AIR HANDLING UNIT UO.2				
4	480	3	3	70	MCP	20	2	3 3/4"	AIR HANDLING UNIT UO.3				
5	480	3	3	100	MCP	40	3	4 1/4"	AIR HANDLING UNIT UO.4				
6	480	3	3	60	MCP	20	2	3 6"	MULTI-ZONE UNIT				
7	480	3	3	70	MCP	25	2	3 6"	CHILLED WATER PUMP				
8	480	3	3	70	MCP	25	2	3 6"	COUDEUSEIR PUMP				
9	480	3	3	70	MCP	25	2	3 6"	COUDEUSEIR STAUD-BY PUMP				
10	480	3	3	70	MCP	15	2	3 3/4"	HOT WATER PUMP				
11	480	3	3	70	MCP	15	2	3 3/4"	HOT WATER STAUD-BY PUMP				
12	480	3	3	70	MCP	15	2	3 3/4"	COOLING TOWER FAN UO.1				
13	480	3	3	70	MCP	15	2	3 3/4"	COOLING TOWER FAN UO.2				
14	480	3	3	20	MCP	5	1	3 12 3/4"	BOILER				
15	480	3	3	20	MCP	1	1	3 12 3/4"	A.T.C. COMPRESSOR UO.1				
16	480	3	3	20	MCP	1	1	3 12 3/4"	A.T.C. COMPRESSOR UO.2				
17	480	3	3	20	MCP	5	1	3 12 3/4"	VENT UNIT #1				
18	480	3	3	20	MCP	5	1	3 12 3/4"	VENT UNIT #2				
19									SPACE				

HIGH VOLTAGE SWITCHGEAR SCHEDULE													
ITEM Nº	DESCRIPTION												
1	INCORPORATING LOAD INTERRUPTER SWITCH, 15.8 KV, THREE POLE, 600A.												
2	METERING, CUBICLE, PROVISIONS FOR THREE 15 KV POTENTIAL TRANSFORMERS AND THREE 15 KV CURRENT TRANSFORMERS.												
3-4	OUTGOING FUSE LOAD INTERRUPTER SWITCH, THREE 15 KV, 400A (MAX), 40° DISCONNECTING TYPE, POWER FUSES.												
5	METER CABINET TO BE FURNISHED AND INSTALLED BY POWER CO. ON METAL FRAME FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.												
6-7	1500 KVA, 15.24/480V-277 VOLTS, 3Ø 60 HZ., METAL ENCLOSED, OIL FILLED, PAD MOUNTED TRANSFORMER.												
8	SPACE HOLDERS AND FUSE HANDLING STICK BOX.												

EMERGENCY PANELBOARDS SCHEDULE													
PANEL DESCRIPTION	MAINS		CIRCUIT Nº	BRANCH CB		WIRING	CDT	LOAD DESCRIPTION					
	LUGS	CB		POLE	TRIP								
"EH-1" 480/277V, 3Ø, 4W	60A	20A	1-3	1	20	3/4"	3/4"	SALES AREA LTG.					
			4-5	1	20	3/4"	3/4"	STAIRS LTG.					
			6	1	20	3/4"	3/4"	T-18 SPARES					
"EL-1" 120/208V, 3Ø, 4W	60A	20A	1-5	1	20	3/4"	3/4"	SALES AREA LTG.					
			6-8	1	20	3/4"	3/4"	PROTECTION DEV. SPARES					
"EH-2" 480/277V, 3Ø, 4W	60A	20A	1-2	1	20	3/4"	3/4"	SALES AREA LTG.					
			3-4	1	20	3/4"	3/4"	STOCK AREA LTG.					
			5-6	1	20	3/4"	3/4"	STAIRS & A.C. T-18					
			7-8	1	20	3/4"	3/4"	SPARES					
"EL-2" 120/208V, 3Ø, 4W	60A	20A	1-3, 9, 11	1	20	3/4"	3/4"	GNL. LTG.					
			4, 5, 8, 10	1	20	3/4"	3/4"	PROTECTION DEV. SPARES					
			12-14	1	20	3/4"	3/4"	SPARES					
"EH-3" 480/277V, 3Ø, 4W	100A	40A	1-3	1	20	3/4"	3/4"	GNL. LTG.					
			4	1	20	3/4"	3/4"	T-20 SPARES					
"EL-3" 120/208V, 3Ø, 4W	100A	70A	11-10	1	20	3/4"	3/4"	GNL. LTG.					
			12-13	1	20	3/4"	3/4"	ELEVATORS					
			14-15	1	20	3/4"	3/4"	PROTECTION DEV. SPARES					
			16-21	1	20	3/4"	3/4"	CIRC. PUMPS					
"EH-4" 480/277V, 3Ø, 4W	100A	MLO	1-2	3	30	3/4"	3/4"	PNL'S EH-1, EH-2					
			3-5	3	30	3/4"	3/4"	PNL'S EH-3					
			6-8	3	30	3/4"	3/4"	SPARES					

GENERAL NOTES:
1. ALL CB'S IN 20/208V PANELS SHALL BE TYPE "QO" UNLESS NOTED OTHERWISE.
2. ALL CB'S IN 480/277V PANELS SHALL BE TYPE "FY" UNLESS NOTED OTHERWISE.
3. BRANCH CIRCUITS 1 TO 30 IN PNL "LPIV" SHALL INCLUDE ALL CIRCUITS EXCEPT THOSE NOTED.
4. PNL'S "O'S" & "PL" SHALL HAVE A BUILT IN CONTACTOR (OR MAIN CB RATING) TO CONTROL MAIN BUS CONTACTOR. COIL SHALL BE CONTROLLED BY TIME CLOCK AS SHOWN ON POWER RIZER.
CIRCUITS 16 & 15 IN PNL "S", AND CIRCUIT 17 IN PNL "O" SHALL NOT BE CONTROLLED BY THE CONTACTOR.

PANELBOARD SCHEDULE													
PANEL DESCRIPTION	MAINS		CIRCUIT NO	BRANCH CB		WIRING	CDT.	LOAD DESCRIPTION					
	LUGS	CB		POLE	TRIP			TYPE	NO	SIZE			
"LPA" 277/480V, 3Ø, 4W	100A	90A	1-11 12-15 16-22	1 1 3	20 20 40	FA FA FA	2 2 3	12 12 3	3/4" 3/4" 1"	SALES AREA GUL LTG. STOCK AREA GUL LTG. ESCALATOR LTG. TRANSFORMER "T-2" SPARES			
"LPB" 120/208V, 3Ø, 4W	100A	MLO	1-31 32-40	1 1	20 20	-	2	12	3/4"	SALES AREA GUL LTG. SPARES			
"LPB1" 120/208V, 3Ø, 4W	100A	MLO	1-18 19-22 23-24	1 1 1	20 20 20	-	2	12	3/4" 3/4" 3/4"	SALES AREA GUL LTG. ESCALATOR LTG. OPTICAL SPMT SPARES			
"LPB2" 120/208V, 3Ø, 4W	100A	MLO	1-29 30-40	1 1	20 20	-	2	12	3/4"	ADDITIONAL LTG. SPARES			
"LPC" 277/480V, 3Ø, 4W	100A	40A	1-5 6 7-9 10-13	1 1 3 1	20 20 20 20	-	2	12	3/4" 3/4" 3/4" 3/4"	STOCK AREA GUL LTG. STAIRS LTG. WALL MTS. LTG. SPARES			
"LPD" 120/208V, 3Ø, 4W	100A	100A	1-36 37-42	1 1	20 20	-	2	12	3/4"	SALES AREA GUL LTG. SPARES			
"LPD1" 120/208V, 3Ø, 4W	225A	125A	1-33 34-42	1 1	20 20	-	2	12	3/4"	SALES AREA GUL LTG. SPARES			
"LPD2" 120/208V, 3Ø, 4W	100A	100A	1-30 31-40	1 1	20 20	-	2	12	3/4"	ADDITIONAL LTG. SPARES			
"LPE" 277/480V, 3Ø, 4W	100A	60A	1-15 16-20 21-22	1 1 1	20 20 20	-	2	12	3/4" 3/4"	SALES AREA GUL LTG. OUTDOOR AREA LTG. SPARES			
"LPE" 120/208V, 3Ø, 4W	100A	40A	1-6 7-12	1 1	20 20	-	2	12	3/4"	SALES AREA GUL LTG. SPARES			
"LPE1" 120/208V, 3Ø, 4W	100A	70A	1-22 23-27	1 1	20 20	-	2	12	3/4"	ADDITIONAL LTG. SPARES			
"LPC" 277/480V, 3Ø, 4W	100A	40A	1-2 3-10 11-15	1 1 1	20 20 20	-	2	12	3/4" 3/4" 3/4"	WALKING AREA LTG. STOCK AREA GUL LTG. STAIRS			
"LPH" 277/480V, 3Ø, 4W	100A	50A	1-2 3-18 19-17	1 1 1	20 40 20	-	2	12	3/4" 3/4"	CORRIDOR LTG. OFFICE AREA LTG. SPARES			
"LPI" 277/480V, 3Ø, 4W	100A	100A	1-11 12-14 15-23	1 1 3	20 20 20	FA	2	12	3/4" 3/4" 1"	OFFICE AREA LTG. ESCALATOR LTG. TRANSFORMER "T-2" SPARES			
"LPJ" 120/208V, 3Ø, 4W	225A	MLO	1-25 26-31 32-42	1 1 1	20 20 20	-	2	12	3/4"	SALES AREA GUL LTG. ESCALATOR LTG. SPARES			
"LPJ1" 120/208V, 3Ø, 4W	100A	MLO	1-31 32-42	1 1	20 20	-	2	12	3/4"	SALES AREA GUL LTG. SPARES			
"LPJ2" 120/208V, 3Ø, 4W	100A	MLO	1-23 24-28 29-40	1 1 1	20 20 40	-	2	12	3/4" 3/4"	SALES AREA GUL LTG. RECREATION RM. LTG. SPARES			
"LPJ3" 120/208V, 3Ø, 4W	100A	MLO	1-30 31-42	1 1	20 20	-	2	12	3/4"	ADDITIONAL LTG. SPARES			
"LC" 120/208V, 3Ø, 4W	100A	MLO	1-18 19-20 31-36	1 1 1	20 20 20	-	2	12	3/4" 3/4"	LIGHTING CANOPY SPARES OUTLETS ON 2 & 4			
"LDA" 120/208V, 3Ø, 4W	100A	MLO	1-30 31-42	1 1	20 20	-	2	12	3/4"	SALES AREA U.D. SPARES			
"LPA1" 120/208V, 3Ø, 4W	100A	MLO	1-29 30 31-42	1 1 1	20 20 20	-	2	12	3/4" 3/4"	SALES AREA U.D. SPARES			
"PPC" 120/208V, 3Ø, 4W	100A	40A	1-13 14-15 16-20	1 1 1	20 20 20	-	2	12	3/4" 3/4"	SALES AREA U.D. LTG. PRODUCE DOOR SPARES			
"PPE" 120/208V, 3Ø, 4W	100A	70A	1-18 19-24 25-32	1 1 1	20 20 20	-	2	12	3/4" 3/4"	SALES AREA U.D. GARDEN CTR FUN'S SPARES			
"PPG" 120/208V, 3Ø, 4W	100A	70A	1-15 16-23 24-30	1 1 1	20 20 20	-	2	12	3/4"	SALES AREA U.D. GUL. RECEIPT S SPARES			
"PPH" 120/208V, 3Ø, 4W	100A	100A	1-32 33-42	1 1	20 20	-	2	12	3/4"	GUL. RECEIPT S SPARES			
"PPJ" 120/208V, 3Ø, 4W	100A	100A	1-26 27-36 37-42	1 1 1	20 20 20	-	2	12	3/4" 3/4"	GUL. RECEIPT S EXHAUST FANS SPARES			
"PPJ1" 120/208V, 3Ø, 4W	100A	MLO	1-26 27-36 37-42	1 1 1	20 20 20	-	2	12	3/4" 3/4"	GUL. RECEIPT S SPARES			
"TV" 120/208V, 3Ø, 4W	100A	90A	1-42	1	20	-	2	12	3/4"	TV SALES AREA RECEIPTS			
"CIG" 120/208V, 3Ø, 4W	100A	40A	1-4 5-6 7-9 10 11-11	1 1 1 2 1	20 20 20 20 20	-	2	12	3/4" 3/4" 3/4" 3/4"	COMPUTER RM. RECEIPT S DO.			
"L" 120/208V, 3Ø, 4W	100A	100A	1-27 28-36	1	20	-	2	12	3/4"	LAUNDRY DEPT. RECEIPTS SPARES			
"FK" 120/208V, 3Ø, 4W	225A	200A	1-42	1	-	-	-	-	-	SPACES			
"ES" 120/208V, 3Ø, 4W	100A	90A	1-7 8 9-21 22-41	1 1 1 1	20 20 20 100	-	2	12	3/4" 3/4" 3/4"	URCH. ZUL. RECEIPT S WELDER MACH. EQUIPMENT SPARES			
"PPA2" 120/208V, 3Ø, 4W	225A	MLO	1-2 3-6 7-10	1 1 1	20 20 20	-	3	12	3/4" 3/4" 3/4"	WASHERS & DRYERS RANGE APPLIANCES SPARES			
"PPB" 120/208V, 3Ø, 4W	225A	125A	1-3 4-10 11-15	1 1 1	40 20 20	FA	3	12	3/4" 3/4"	ELEVATOR RECEPTS B50D HTG. SPARES			
"PPF" 120/208V, 3Ø, 4W	225A	175A	1-5 6-6 9-13	1 1 1	100 20 20	FA	3	12	3/4" 3/4"	ELEVATOR RECEPTS B50D HTG. SPARES			
"LPC" 120/208V, 3Ø, 4W (DOUBLE PNL)	225A	150A	1-130 12,22,24,27 16,17 14 16,18 23,29,31 32-42	1 1 1 1 1 1	20 20 20 20 20 20	-	2	12	3/4" 3/4" 3/4" 3/4" 3/4"	SEE EQUIPMENT CONNECTIONS ON DRAWING E-22 SPARES			
"PPC" 120/208V, 3Ø, 4W (DOUBLE PNL)	225A	150A	29,12,14,43 11 10 12-25 26,29 31-42	1 1 1 1 1	20 20 20 20 20	-	2	12	3/4" 3/4" 3/4" 3/4"	SEE EQUIPMENT CONNECTIONS ON DRAWING E-22 SPARES			
"PPA4" 120/208V, 3Ø, 4W	225A	200A	1-140 11-12 13 15 17-18 19 20 21-25	1 1 1 1 1 1 1	20 20 20 20 20 20 20	FA	3	12	3/4" 3/4" 3/4"	GUL. FLOOR LTG. COMPRESSORS RECEPTS 50A 1/4" AND LTG. SPACES			
"PPA5" 120/208V, 3Ø, 4W	225A	125A	1-2 3-16 17-27,28,34 35-41	1 1 1 1	20 20 20 20	FA	3	12	3/4" 3/4" 3/4"	RECEPTS RECEPTS RECEPTS RECEPTS			
"C" 120/208V, 3Ø, 4W	100A	60A	1-12 13-17 18-22	1 1 1	20 20 20	-	2	12	3/4"	CANOPY & WINDOW LG. OUTSIDE LIT. SPARES			
"S" 120/208V, 3Ø, 4W	100A	40A	1-12 13-24 25-30	1 1 1	20 20 20	-	2	12	3/4"	SIGNS 1,12,14,15			
"PL" 120/208V, 3Ø, 4W	225A	MLO	1 2-4 5-8	1 1 1	20 20 20	FA	3	12	3/4"	SEE DETAIL ON DRAWING E-17			
"PL" 120/208V, 3Ø, 4W	225A	MLO	1 2-4 5-8	1 1 1	20 20 20	FA	3	12	3/4"	PARKING LOT LTG. DO. DO. SPARES			