

# ABBREVIATIONS

⊙	AT	INCAND	INCANDESCENT
ABV	ABOVE	KW	KILOWATT
A or AMP	AMPERE	L	LENGTH
AF	ABOVE FINISHED FLOOR	LB	POUND
AFG	ABOVE FINISHED GRADE	LF	LINEAR FEET
ALT	ALTERNATE	LTG	LIGHTING
AL or ALUM	ALUMINUM	MATL	MATERIAL
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MAX	MAXIMUM
APPROX	APPROXIMATE	MC	MECHANICAL CONTRACTOR
ARCH	ARCHITECT, ARCHITECTURAL	MECH	MECHANICAL
AUTO	AUTOMATIC	MFG	MANUFACTURER
AUX	AUXILIARY	MIN	MINIMUM
AWG	AMERICAN WIRE GAUGE	MISC	MISCELLANEOUS
BLDG	BUILDING	MTD	MOUNTED
C	CONDUIT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CB	CIRCUIT BREAKER	NIC	NOT IN CONTACT
CKT	CIRCUIT	NO or #	NUMBER
CLD	CEILING	NOT TO SCALE	
CLR	CLEAR	P	POLE
COMB	COMBINATION	PB	PUSH BUTTON
COMM	COMMUNICATIONS	PH or #	PHASE
CONC	CONCRETE	PLYWD	PLYWOOD
CONT	CONTACTOR	PVC	POLYVINYL CHLORIDE
CTR	CENTER	QTY	QUANTITY
CU	COPPER	RAD	RADIUS
DIA	DIAMETER	REC	RECEPTACLE
DISC	DISCONNECT	REDD	REQUIRED
DN	DOWN	RM	ROOM
DWG	DRAWING	SCHD	SCHEDULE
EA	EACH	SPECS	SPECIFICATIONS
EC	ELECTRICAL CONTRACTOR	SO	SQUARE
ELEC	ELECTRIC, ELECTRICAL	STD	STANDARD
EQ	EQUAL	STRUCT	STRUCTURE, STRUCTURAL
EQUIP	EQUIPMENT	SUSP	SUSPENDED
EXIST	EXISTING	SW	SWITCH
FA	FIRE ALARM	SYS	SYSTEM
FIN	FINISHED	TELE	TELEPHONE
FLR	FLOOR	TEMP	TEMPERATURE
FLUOR	FLUORESCENT	TYP	TYPICAL
FT	FEET	UG/E	UNDERGROUND ELECTRICAL
FU	FUSE	UG/T	UNDERGROUND TELEPHONE
GA	GAUGE	UNO	UNLESS NOTED OTHERWISE
GALV	GALVANIZED	VAR	VARIES, VARIABLE
GC	GENERAL CONTRACTOR	VERT	VERTICAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTOR	W	WITH
GND or GRD	GROUND	W/D	WITHOUT
HORIZ	HORIZONTAL	WF	WEATHERPROOF
HT	HEIGHT	XFMR	TRANSFORMER
HTR	HEATER		
HVAC	HEATING VENTILATION AND AIR-CONDITIONING		

# SYMBOL LEGEND

	RECESSED DOWN LIGHT. SEE FIXTURE SCHEDULE.		DATA JACK, WALL MOUNTED AT 18" AFF UNO, W/ BACK BOX AND 3/4" CONDUIT W/ PULL WIRE STUBBED ABOVE CEILING.
	RECESSED 2"x4" FLUORESCENT LIGHT. SEE FIXTURE SCHEDULE.		TELEPHONE BACKBOARD
	SUSPENDED 1"x4" FLUORESCENT LIGHT. SEE FIXTURE SCHEDULE.		RECEPTACLE, SIMPLEX. SEE BELOW FOR TYPE.
	WALL MOUNTED LIGHT. SEE FIXTURE SCHEDULE.		RECEPTACLE, DUPLEX. SEE BELOW FOR TYPE.
	POLE MOUNTED LIGHT. SEE FIXTURE SCHEDULE.		RECEPTACLE, DOUBLE DUPLEX. SEE BELOW FOR TYPE.
	TRACK LIGHT WITH FIXTURE HEADS. SEE FIXTURE SCHEDULE.		RECEPTACLE, DUPLEX, FLOOR MOUNTED, FLUSH.
	WALL MOUNTED LIGHT. SEE FIXTURE SCHEDULE.	<b>RECEPTACLE TYPES:</b>	
	EXIT SIGN, SINGLE FACE. SEE FIXTURE SCHEDULE.	G	= GROUND FAULT CIRCUIT INTERRUPTER
	EXIT SIGN, DOUBLE FACE. SEE FIXTURE SCHEDULE.	T	= TAMPER PROOF
	FIXTURE ON "NL" OR EMERGENCY CIRCUIT.	C	= CEILING MOUNTED
	NOTE: LOWER CASE LETTER(S) INDICATE SWITCHING CIRCUIT.	W	= WEATHERPROOF
	CONDUIT UP	I	= ISOLATED GROUND
	CONDUIT DOWN		NUMBER INDICATES MOUNTING HEIGHT, OTHER THAN 18" AFF.
	CONDUIT, CONCEALED		RECEPTACLE, SPECIAL. SEE SCHEDULE FOR TYPE.
	CONDUIT, EXPOSED		PULL STATION
	CONDUIT OR CABLE, FLEXIBLE		AUDIO DEVICE
	CONDUIT, STUBBED AND CAPPED		VISUAL DEVICE
	CONDUIT, UNDERGROUND IN DUCT BANK		AUDIO/VISUAL DEVICE
	HASH MARKS INDICATE QUANTITY OF WIRE. NUMBER INDICATES SIZE OF WIRE OTHER THAN #12. UNMARKED CONDUITS TO CONTAIN 2 #12 PLUS GROUND WIRE UNO. A-1 INDICATES PANEL AND CIRCUIT DESIGNATION.		DUCT SMOKE DETECTOR
	S SWITCH, FLUSH MOUNTED AT 48" UNLESS NOTED OTHERWISE.		SMOKE DETECTOR
	S <sub>3</sub> SWITCH, THREE-WAY		HEAT DETECTOR
	S <sub>D</sub> SWITCH, DIMMER		MAGNETIC DOOR HOLDER
	S <sub>G</sub> SWITCHES, GANGED. NUMBER INDICATES NUMBER OF SWITCHES. LOWER CASE LETTERS INDICATE SWITCHING CIRCUITS.		POST INDICATOR VALVE
	S <sub>M</sub> MANUAL MOTOR STARTER		FIRE FIGHTER PHONE JACK
	PUSHBUTTON STATION AT 54" AFF.		FLOW SWITCH
	JUNCTION BOX, STANDARD WORK BOX		TAMPER SWITCH
	PULL OR JUNCTION BOX. NUMBERS INDICATE HEIGHT, WIDTH AND DEPTH		GRAPHIC ANNUNCIATOR
	MOTOR, 120 VOLT, SINGLE PHASE		FIRE ALARM CONTROL PANEL
	MOTOR, 480 VOLT, THREE PHASE		SWITCH
	TRANSFORMER, NUMBER INDICATES SIZE		FUSED SWITCH
	GROUND ROD, "W" INDICATES GROUND WELL		CIRCUIT BREAKER
	GROUND PIGTAIL FOR LIGHTNING PROTECTION		THERMAL OVERLOAD
	GROUND BAR		CONTACT
	PANEL, SURFACE, 120/208 VOLT, 3φ, 4W		STARTER
	PANEL, SURFACE, 277/480 VOLT, 3φ, 4W		TRANSFORMER
	DISCONNECT SWITCH. NUMBER INDICATES SIZE. "F" INDICATES FUSED.		MOTOR
	STARTER, NUMBER INDICATES SIZE		GROUND
	COMBINATION STARTER, NUMBER INDICATES SIZE		
	PHOTOCELL		
	TIMER CONTROL, INTERMATIC #1101, STSP, 125V, 40A.		
	EXIT DOOR ALARM		
	CO GAS SYSTEM SENSOR/TRANSMITTER		
	CO GAS SYSTEM ANNUNCIATOR		

LP1													
ROOM Distribution Center						VOLTS 480Y/277V 3P 4W			AIC 25,000				
MOUNTING SURFACE						BUS AMPS 200			MAIN BKR MLO				
FED FROM SB						NEUTRAL 100%			LUGS STANDARD				
NOTE													
CKT #	CKT BKR	CIRCUIT DESCRIPTION			KVA LOAD			CKT #	CKT BKR	CIRCUIT DESCRIPTION			
1	20/1	DIST. CENTER LIGHTING			2.19			2	20/1	EMERGENCY LIGHTING			
3	20/1	DIST. CENTER LIGHTING			3.29			4	20/1	DOCK DOOR LIGHTING			
5	20/1	DIST. CENTER LIGHTING			4.38			6	20/1	DOCK DOOR FAN			
7	20/1	DIST. CENTER LIGHTING			4.38			8	20/1	DOCK DOOR FAN			
9	20/1	OFFICE LIGHTING			3.87			10	20/1	FUTURE FANS			
11	20/1	LIGHTING				0.63		12	20/1	WH-1			
13	20/3	EXHAUST FANS			2.8			14	20/3	MOTOR OPERATED GATE			
15						2.8		16					
17							18						
19	20/3	EXHAUST FANS			2.8			20	20/1	SPACE			
21						2.8		22	20/1	SPACE			
23							24	20/1	SPACE				
25	20/3	EXHAUST FANS			2.8			26	20/1	SPACE			
27						2.8		28	20/1	SPACE			
29							30	20/1	SPACE				
31	20/1	SPACE			0			32	20/1	SPACE			
33	20/1	SPACE			0			34	20/1	SPACE			
35	20/1	SPACE			0			36	20/1	SPACE			
37	20/1	SPACE			0			38	70/3	XFMR T1			
39	20/1	SPACE			0			40					
41	20/1	SPACE			0			42					
					TOTAL CONNECTED KVA BY PHASE			33.6 32 34.2					
					TOTAL CONNECTED AMPS BY PHASE			121 116 123					
					CONN. KVA			CALC. KVA			CONN. KVA		
					LIGHTING 21.2			26.5 (125%)			CONTINUOUS 0.65		
					LARGEST MOTOR 6			7.5 (125%)			HEATING 6.45		
					OTHER MOTORS 44.5			44.5 (100%)			NONCONTINUOUS 0		
					RECEPTACLES 21			15.5 (50%>10)			KITCHEN EQUIP 0		
											NONCON/DIVERSE 0		
											TOTAL KVA 99.8		
											TOTAL AMPS 101		
											BALANCED THREE PHASE AMPS 122		

PP1													
ROOM Distribution Center						VOLTS 208Y/120V 3P 4W			AIC 22,000				
MOUNTING SURFACE						BUS AMPS 200			MAIN BKR 175				
FED FROM T1						NEUTRAL 100%			LUGS STANDARD				
NOTE													
CKT #	CKT BKR	CIRCUIT DESCRIPTION			KVA LOAD			CKT #	CKT BKR	CIRCUIT DESCRIPTION			
1	20/1	RECEPTACLE			0.8			2	20/1	EXIT DOOR ALARM			
3	20/1	RECEPTACLE			0.8			4	20/1	EXIT DOOR ALARM			
5	20/1	RECEPTACLE			0.8	0.8		6	20/1	EF-7			
7	20/1	RECEPTACLE			0.8			8	20/1	RECEPTACLE			
9	20/1	RECEPTACLE			0.8			9	20/1	RECEPTACLE			
11	20/1	RECEPTACLE			0.8	0.8		12	20/1	RECEPTACLE, LIGHTING			
13	20/1	RECEPTACLE			0.8			14	20/1	RECEPTACLE			
15	20/1	RECEPTACLE			0.8	0.18		18	20/1	RESTROOM LIGHTING			
17	20/1	RECEPTACLE			0.8	0.18		18	20/1	FC-1			
18	20/1	RECEPTACLE			0.8			20	20/1	FC-2			
21	20/1	RECEPTACLE			0.8			22	20/1	FC-3			
23	20/1	RECEPTACLE			0.8	0.8		24	20/1	SPACE			
25	20/1	RECEPTACLE			0.8			26	20/1	SPACE			
27	20/1	RECEPTACLE			0.8			28	20/1	SPACE			
28	20/1	RECEPTACLE			0.8	0.8		30	20/1	SPACE			
31	30/2	CU-1			1.87	1.87		32	20/1	SPACE			
33							34	20/1	SPACE				
35	40/2	CU-2			3	3		36	20/1	SPACE			
37							38	100/3	PANEL PP2				
39	40/2	CU-3			3	2.5		40					
41						2.5		42					
					TOTAL CONNECTED KVA BY PHASE			13.2 11.6 14.4					
					TOTAL CONNECTED AMPS BY PHASE			110 87.1 120					
					CONN. KVA			CALC. KVA			CONN. KVA		
					LIGHTING 0.22			0.275 (125%)			CONTINUOUS 0.65		
					LARGEST MOTOR 6			7.5 (125%)			HEATING 2.45		
					OTHER MOTORS 9.04			9.04 (100%)			NONCONTINUOUS 0		
					RECEPTACLES 21			15.5 (50%>10)			KITCHEN EQUIP 0		
											NONCON/DIVERSE 0		
											TOTAL KVA 39.3		
											TOTAL AMPS 35.8		
											BALANCED THREE PHASE AMPS 98.8		

SLP													
ROOM Distribution Center						VOLTS 480Y/277V 3P 4W			AIC 25,000				
MOUNTING SURFACE						BUS AMPS 100			MAIN BKR MLO				
FED FROM SB						NEUTRAL 100%			LUGS STANDARD				
NOTE CONTACTOR CONTROLLED													
CKT #	CKT BKR	CIRCUIT DESCRIPTION			KVA LOAD			CKT #	CKT BKR	CIRCUIT DESCRIPTION			
1	20/2	SITE LIGHTING			2.75	2.75		2	20/2	SITE LIGHTING			
3							4						
5	20/1	EXTERIOR LIGHTING			0	0.84		6	20/2	SPARE			
7	20/1	SPARE			0			8					
9	20/1	SPARE			0			10	20/2	SPACE			
11	20/1	SPARE			0			12					
13	20/1	SPACE			0			14	20/1	SPACE			
15	20/1	SPACE			0			16	20/1	SPACE			
17	20/1	SPACE			0			18	20/1	SPACE			
19	20/1	SPACE			0			20	20/1	SPACE			
21	20/1	SPACE			0			22	20/1	SPACE			
23	20/1	SPACE			0	0		24	20/1	SPACE			
					TOTAL CONNECTED KVA BY PHASE			6.05 6.05 0.84					
					TOTAL CONNECTED AMPS BY PHASE			25.2 25.2 3.03					
					CONN. KVA			CALC. KVA			CONN. KVA		
					LIGHTING 12.9			16.2 (125%)			CONTINUOUS 0		
					LARGEST MOTOR 0			0 (125%)			HEATING 0		
					OTHER MOTORS 0			0 (100%)			NONCONTINUOUS 0		
					RECEPTACLES 0			0 (50%>10)			KITCHEN EQUIP 0		
											NONCON/DIVERSE 0		
											TOTAL KVA 12.9		
											TOTAL AMPS 16.2		
											BALANCED THREE PHASE AMPS 19.5		

PP2												
ROOM Distribution Center						VOLTS 208Y/120V 3P 4W			AIC 22,000			
MOUNTING SURFACE						BUS AMPS 100			MAIN BKR MLO			
FED FROM PP1						NEUTRAL 100%			LUGS STANDARD			
NOTE												
CKT #	CKT BKR	CIRCUIT DESCRIPTION			KVA LOAD			CKT #	CKT BKR	CIRCUIT DESCRIPTION		
1	20/1	RECEPTACLE			0.2			2	20/1	RECEPTACLE		
3	20/1	RECEPTACLE			0.4	0.4		4	20/1	RECEPTACLE		
5	20/1	RECEPTACLE			0.4	0.4		6	20/1	RECEPTACLE		