

ELECTRICAL SYMBOLS

LIGHTING SYMBOLS			SPECIAL SYSTEMS SYMBOLS			POWER SYMBOLS		
SYMBOL	DESCRIPTION	MH (UON)	SYMBOL	DESCRIPTION	MH (UON)	SYMBOL	DESCRIPTION	MH (UON)
	SINGLE POLE TOGGLE SWITCH	48" TOD		FIRE ALARM HORN TYPE SPEAKER	NOTE 5		COMBINATION SWITCH AND SIMPLEX RECEPTACLE	48" TOD
	SWITCH: SUB-LETTER INDICATES FIXTURES CONTROLLED (a)	48" TOD		FIRE ALARM FLASHING STROBE LIGHT - WALL MOUNTED	NOTE 5		COMBINATION SWITCH AND DUPLEX RECEPTACLE	48" TOD
	DOUBLE POLE TOGGLE SWITCH	48" TOD		FIRE ALARM HORN	NOTE 5		SIMPLEX RECEPTACLE	18" CTR
	THREE WAY TOGGLE SWITCH (SPOT)	48" TOD		COMBINATION FIRE ALARM HORN AND FLASHING STROBE LIGHT	NOTE 5		DUPLEX RECEPTACLE	18" CTR
	FOUR WAY TOGGLE SWITCH (DPDT)	48" TOD		S - CEILING SPEAKER, F - FIRE ALARM SPEAKER			DUPLEX RECEPTACLE: CEILING MOUNTED	18" CTR
	KEY OPERATED SWITCH	48" TOD		FIRE ALARM SPEAKER W/ STROBE			DUPLEX RECEPTACLE: SPLIT WIRED, BOTTOM HALF SWITCHED	18" CTR
	THREE WAY DIMMER SWITCH: SUB-LETTER INDICATES FIXTURES CONTROLLED (a)	48" TOD		HORN TYPE SPEAKER			DUPLEX RECEPTACLE: PEDESTAL TYPE	18" CTR
	MANUAL STARTER W/ OVERLOADS	48" TOD		MAGNETIC DOOR HOLDER			DUPLEX RECEPTACLE: MOUNTED ABOVE BACKSLASH OR COUNTER	18" CTR
	SWITCH W/ PILOT LIGHT	48" TOD		DIGITAL ALARM COMMUNICATOR TRANSMITTER			DUPLEX RECEPTACLE: GROUND FAULT INTERRUPTER TYPE	18" CTR
	DIMMER SWITCH	48" TOD		FIRE ALARM ANNUNCIATOR PANEL			DUPLEX RECEPTACLE: QFI MOUNTED ABOVE BACKSLASH OR COUNTER	18" CTR
	4 BUTTON DIMMER SWITCH	48" TOD		FIRE ALARM CONTROL PANEL			DUPLEX RECEPTACLE: MOUNTED HIGH	84" CTR
	LOW VOLTAGE CONTROL SWITCH	48" TOD		RESCUE ASSISTANCE MASTER CONTROL PANEL	48" TOD		DUPLEX RECEPTACLE: ISOLATED GROUND	18" CTR
	MANUAL TIME SWITCH	48" TOD		RESCUE ASSISTANCE REMOTE STATION	48" TOD		DUPLEX RECEPTACLE: MULTI-OUTLET ASSEMBLY: LOCATIONS	54" CTR
	MOMENTARY CONTACT SWITCH	48" TOD		FIRE ALARM PULL STATION	48" TOD		DOUBLE DUPLEX RECEPTACLE	18" CTR
	SWITCH WITH WEATHERPROOF ENCLOSURE	48" TOD		HEAT DETECTOR: E - ELEVATOR CONTROLS			DOUBLE DUPLEX RECEPTACLE ISOLATED GROUND	18" CTR
	OCCUPANCY SENSOR (CEILING & WALL MOUNTED)			SMOKE DETECTOR (PHOTOELECTRIC): AB - AUDIBLE BASE, E - ELEVATOR CONTROLS			DUPLEX RECEPTACLE: CART RECHARGE	36" CTR
	VACANCY SENSOR			SMOKE DETECTOR (IONIZATION)			DUPLEX RECEPTACLE: CART RECHARGE	36" CTR
	TIME CLOCK			FIRE ALARM DUCT DETECTOR WITH RELAY			DUPLEX RECEPTACLE: PAY PHONE	54" CTR
	RELAY			CARBON MONOXIDE DETECTOR			SPECIAL RECEPTACLE: NEMA 6-20R (20A, 2P, 3W, 208V)	18" CTR
	LIGHTING CONTACTOR			FIRE ALARM SYSTEM ADDRESSABLE RELAY - CONTROL			SPECIAL RECEPTACLE: NEMA 6-30R (30A, 2P, 3W, 208V)	18" CTR
	PHOTOCCELL OR PUSHPLATE SWITCH			FIRE ALARM SYSTEM ADDRESSABLE RELAY - MONITOR			SPECIAL RECEPTACLE: NEMA 14-20R (20A, 3P, 4W, 208/120V)	18" CTR
	EMERGENCY SHUNT RELAY, UL 924 LISTED (CEILING MOUNTED)			FIRE ALARM SYSTEM REMOTE ALARM LIGHT			SPECIAL RECEPTACLE: NEMA 15-30R (30A, 3P, 4W, 208V)	18" CTR
	LIGHTING FIXTURE: RECESSED, SURFACE, OR PENDANT MOUNTED - TYPE AS SPECIFIED			FLOW SWITCH CONNECTION			SPECIAL RECEPTACLE: FLOOR MOUNTED, NEMA 6-20R	18" CTR
	LIGHTING FIXTURE: 2 BALLAST			TAMPERSWITCH CONNECTION			SPECIAL RECEPTACLE: PEDESTAL TYPE, NEMA 6-20R	72" CTR
	LIGHTING FIXTURE: INDUSTRIAL			FIRE ALARM LINEAR BEAM SMOKE DETECTOR: TRANSMITTER (LBT) AND RECEIVER (LBR)			TELEVISION RECEPTACLE	72" CTR
	LIGHTING FIXTURE: WALL MOUNTED - TYPE AS SPECIFIED			FIRE FIGHTER'S TELEPHONE JACK	48" TOD		TELEVISION RECEPTACLE	18" BFC
	LIGHTING FIXTURE: RECESSED, SURFACE, OR PENDANT MOUNTED			MONITOR SYSTEM JUNCTION BOX	36" CTR		CLOCK HANGER OUTLET	84" CTR
	LIGHTING FIXTURE: WALL MOUNTED - TYPE AS SPECIFIED			AMPLIFIER			PROGRAM CLOCK OUTLET: SINGLE FACE, DOUBLE FACE	84" CTR
	WALL WASHER			KEYPAD	48" TOD		EMERGENCY POWER OFF SWITCH	48" TOD
	ADJUSTABLE WALL WASHER			CARD READER	48" TOD		JUNCTION BOX	48" TOD
	LIGHTING FIXTURE ON EMERGENCY OR NIGHT LIGHT CIRCUIT (NL)			DOOR ALARM CONTACT	48" TOD		JUNCTION BOX - WALL MOUNTED	18" TOD
	EMERGENCY BATTERY PACK: W/ NUMBER OF HEADS INDICATED			ROUGH-IN JUNCTION BOX FOR CCTV CAMERA			EQUIPMENT CONNECTION AS NOTED	
	EMERGENCY BATTERY PACK: W/ REMOTE HEADS			PUSH BUTTON PLATE			EQUIPMENT CONNECTION AS NOTED - WALL MOUNTED	48" TOD
	REMOTE EMERGENCY HEAD			TELEVISION ANTENNA OUTLET	18" CTR		HEATER CONNECTION - NUMBER INDICATES KILOWATTS (KW)	
	EMERGENCY BATTERY PACK: SEMI RECESSED, CEILING MOUNT			CABLE TV OUTLET			HEATER - CEILING MOUNTED	
	EXIT SIGN: CEILING OR PENDANT MOUNTED (SHADED PORTION INDICATES FACE)			TELEVISION SYSTEM SPLITTER - 2 WAY, 4 WAY			CLOSE CIRCUIT BREAKER	
	EXIT SIGN: WALL MOUNTED - END, BACK			A/V CREDENZA LOCATION			NON-FUSED DISCONNECT SWITCH: 30A (UON)	
	EXIT SIGN: W/ DIRECTIONAL ARROWS			A/V INPUT PLATE			FUSED DISCONNECT SWITCH: FUSE SIZE AS INDICATED (40A)	
	POLE MOUNTED LIGHTING FIXTURE: SINGLE HEAD, DOUBLE HEAD			A/V IN-WALL RACK			MAGNETIC MOTOR STARTER	
	POLE MOUNTED LIGHTING FIXTURE: SINGLE, POLE TOP			A/V MONITOR TV			COMBINATION MAGNETIC MOTOR STARTER: ABBREVIATION INDICATES TYPE - FVNR, FVR, RVAT, 2S1W, 2S2W, SST	
	LIGHTING POLE (SPORTS)			A/V SCREEN CONTROL			VARIABLE FREQUENCY CONTROLLER W/ FUSED DISCONNECT SWITCH	
				A/V SCHEDULE PANEL			VARIABLE FREQUENCY DRIVE W/ DISCONNECT SWITCH	
				A/V SIGNAGE TV			MOTOR: NUMERALS (IF SHOWN) INDICATE HP	
				A/V TOUCH PANEL			GENERATOR: NUMERALS (IF SHOWN) INDICATE KW	
				DATA/TELEPHONE OUTLET: CEILING MOUNTED			MANUAL MOTOR STARTER W/ THERMAL OVERLOADS	
				TELEPHONE OUTLET	18" CTR		MOTOR SWITCH	
				DATA OUTLET	18" CTR		MECHANICAL EQUIPMENT CONNECTION - WITH MOTOR	
				TELEPHONE OUTLET, WALL MOUNTED	54" CTR		MECHANICAL EQUIPMENT CONNECTION - NO MOTOR	
				TELEPHONE OUTLET, EMERGENCY	54" TOD		CONTROL PANEL: TYPE AS INDICATED	
				DATA/TELEPHONE OUTLET: UNSHADED AREA - DATA, SHADED AREA - VOICE NUMERALS INDICATE QUANTITY OF WIRED JACKS	18" CTR		MOMENTARY CONTACT START-STOP PUSHBUTTON STATION	48" TOD
				TELEPHONE OUTLET, FLOOR MOUNTED			MAINTAINED CONTACT START-STOP PUSHBUTTON STATION	48" TOD
				DATA OUTLET, FLOOR MOUNTED			MAINTAINED CONTACT EMERGENCY STOP PUSHBUTTON STATION	48" TOD
				DATA/TELEPHONE OUTLET: FLOOR MOUNTED: UNSHADED AREA - DATA, SHADED AREA - VOICE NUMERALS INDICATE QUANTITY OF WIRED JACKS			BRANCH PANELBOARD	90" TOD
				COMBINATION POWER & TELEPHONE OUTLET, FLOOR MOUNTED			DISTRIBUTION PANELBOARD	
				COMBINATION POWER & DATA OUTLET, FLOOR MOUNTED			TRANSFORMER, CONCRETE PAD MOUNTED	
				COMBINATION POWER & DATA/TELEPHONE OUTLET, FLOOR MOUNTED				
				WIRELESS ACCESS POINT				

ELECTRICAL ABBREVIATIONS

NOTE: THIS IS A STANDARD ABBREVIATION LIST. SOME ABBREVIATIONS MAY NOT APPEAR ON THE ACCOMPANYING DRAWINGS.

SYMBOL	DESCRIPTION	MH (UON)	SYMBOL	DESCRIPTION	MH (UON)
2S1W	2 SPEED SINGLE WINDING		LA	LIGHTNING ARRESTOR	
2S2W	2 SPEED DOUBLE WINDING		LC	LIGHTING CONTACTOR	
A	AMP		LP	LIGHTING PANEL	
AC	AIR CONDITIONING		LRA	LOCKED ROTOR AMPERES	
AC	ALTERNATING CURRENT		LTG	LIGHTING	
AFCI	ARC FAULT CIRCUIT INTERRUPTER		LTNG	LIGHTNING	
AF	ABOVE FINISHED FLOOR				
AFD	ABOVE FINISH GRADE				
AHU	AIR HANDLING UNIT		MTV	MASTER ANTENNA TELEVISION	
AIC	AMPS INTERRUPTING CAPACITY		MCB	MAIN CIRCUIT BREAKER	
ALT	ALTERNATE		MCC	MOTOR CONTROL CENTER	
ANN	ANNUNCIATOR		MEL	METAL HALIDE	
APPROX	APPROXIMATELY		MH	MANHOLE, MOUNTING HEIGHT	
ARCH	ARCHITECT		MLO	MAIN LUGS ONLY	
ATC	AUTOMATIC TEMPERATURE CONTROL		MSF	MOTOR STARTER PANEL	
ATS	AUTOMATIC TRANSFER SWITCH		MTD	MOUNTED	
AV	AUDIOVISUAL		MV	MERCURY VAPOR	
AWG	AMERICAN WIRE GAUGE		NC	NORMALLY CLOSED	
BAS	BUILDING AUTOMATION SYSTEM		NEC	NATIONAL ELECTRIC CODE	
BFC	BELOW FINISHED CEILING		NFSS	NON FUSED SAFETY SWITCH	
BFG	BELOW FINISHED GRADE		NO	NUMBER, NORMALLY OPEN	
BLOG	BUILDING		OC	ON CENTER	
BOD	BOTTOM OF DEVICE		OCFI	OWNER FURNISHED CONTRACTOR INSTALLED	
C	COND		OFDI	OWNER FURNISHED EQUIPMENT INSTALLED	
CATV	CABLE TELEVISION		OH	OVERHEAD	
CB	CIRCUIT BREAKER				
CCTV	CLOSED CIRCUIT TELEVISION				
CKT, CCT	CIRCUIT		P	POLE	
CL	CURRENT LIMITING		PS	PUSHBUTTON	
CLQ	CEILING		PF	POWER FACTOR	
CONN	CONNECT		PFC	POWER FACTOR CORRECTION	
CPT	CONTROL POWER TRANSFORMER		PT	POTENTIAL TRANSFORMER	
CT	CURRENT TRANSFORMER		PVC	POLYVINYL CHLORIDE	
CTR	CENTER		PH	PHASE	
CU, CO	COPPER		PL	PROGRAMMABLE LIGHTING CONTROL PANEL	
CX	CONNECT TO EXISTING		PN	POWER PANEL	
DC	DIRECT CURRENT		PP	PUMP	
DISC	DISCONNECT		PR	PAIR	
DN	DOWN		PT	PRINTER	
DPT	DISTRIBUTION PANEL		PT	POTENTIAL TRANSFORMER	
DPT	DOUBLE POLE DOUBLE THROW		PVC	POLYVINYL CHLORIDE	
DPST	DOUBLE POLE SINGLE THROW		PH	PHASE	
DR	DRAWING		QTY	QUANTITY	
E	EMERGENCY		RCS	REMOTE CONTROL SWITCH	
EA	EARTH		REC	RECEPTACLE	
EC	EMPTY CONDUIT		RECP	RECEPTACLE	
EH	ELECTRIC HEATER		REQD	REQUIRED	
ELEC	ELECTRIC		RFI	RADIO FREQUENCY INTERFERENCE	
ELEV	ELEVATION ELEVATOR		RGS	RIGID GALVANIZED STEEL	
ETR	EXISTING TO REMAIN		RLA	RUNNING LOAD AMPERES	
EW	ELECTRIC WATER COOLER		RM	ROOM	
EX	EXISTING		RVAT	REDUCED VOLTAGE AUTO TRANSFORMER	
EXP	EXPOSED		EX	EXISTING	
FA	FIRE ALARM		SC	SURGE CAPACITOR	
FAAP	FIRE ALARM ANNUNCIATOR PANEL		SEC	SECONDARY	
FACP	FIRE ALARM CONTROL PANEL		SN, SN	SOLID NEUTRAL	
FBO	FURNISHED BY OTHERS		SP	SURGE PROTECTION	
FC	FAN COIL		SPD	SURGE PROTECTION DEVICE	
FDR	FEEDER		SPT	SINGLE POLE DOUBLE THROW SAFETY SWITCH	
FLA	FULL LOAD AMPERES		SS	SOLID STATE	
FLR	FLOOR		ST	SINGLE THROW SWITCH	
FR	FRAME		SW	SWITCH	
FU	FUSED, FUSIBLE		SWBD	SWITCHBOARD	
FUSS	FUSED SAFETY SWITCH		TBR	TO BE REMOVED	
FVNR	FULL VOLTAGE NON REVERSING		TC	TIME CLOCK	
FVR	FULL VOLTAGE REVERSING		TEL, TELE	TELEPHONE	
GEN	GENERATOR, GENERAL		TH	TUNGSTEN HALOGEN	
GFCI	GROUND FAULT CIRCUIT INTERRUPTER		TOC	TOP OF CABINET	
GFI	GROUND FAULT INTERRUPTER		TOD	TOP OF DEVICE	
GFP	GROUND FAULT PROTECTED		TRNS	TRANSFORMER	
GFR	GROUND FAULT RELAY		XFMR	TRANSFORMER	
GRD	GROUND		TTB	TELEPHONE TERMINAL BOARD	
GRS	GALVANIZED RIGID STEEL		TW	TWISTED	
			TYP	TYPICAL	
HID	HIGH INTENSITY DISCHARGE		UCB	UNIT CIRCUIT BREAKER	
HQA	HAND OFF AUTOMATIC		UG	UNDERGROUND	
HP	HEAT PUMP, HORSEPOWER		UH	UNIT HEATER	
HPS	HIGH PRESSURE SODIUM		UON	UNLESS OTHERWISE NOTED	
HTR	HEATER		UV	UNIT VENTILATOR	
HW	HIGH VOLTAGE		V	VOLTS	
HZ	HERTZ		VFC	VARIABLE FREQUENCY CONTROLLER	
IG	ISOLATED GROUND		VFD	VARIABLE FREQUENCY DRIVE	
JB	JUNCTION BOX		W	WATTS, WIRE	
KCML	THOUSAND CIRCULAR MILS		WP	WEATHER-PROOF	
KV	KILOVOLTS		XP	EXPLOSION PROOF	
KVA	KILOVOLT AMPERES				
KVAR	KILOVOLT AMPERES REACTIVE				
KW	KILOWATTS				

NURSE CALL DEVICE SYMBOLS

SYMBOL	DESCRIPTION	MH (UON)
	NURSE CALL STATION - PATIENT AND EMERGENCY	48" TOD
	NURSE CALL ANNUNCIATOR PANEL	48" CTR
	NURSE CALL MASTER STATION	48" TOD
	NURSE CALL STAFF STATION	48" TOD
	NURSE CALL DUTY STATION	48" TOD
	NURSE CALL	