

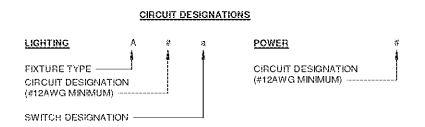
ELECTRICAL SYMBOLS

LIGHTING SYMBOLS			SPECIAL SYSTEMS SYMBOLS		
SYMBOL	DESCRIPTION	MH (UON)	SYMBOL	DESCRIPTION	MH (UON)
	SINGLE POLE TOGGLE SWITCH	48" TOD		FIRE ALARM HORN TYPE SPEAKER	NOTE 5
	SWITCH: SUB-LETTER INDICATES FIXTURES CONTROLLED (a)	48" TOD		FIRE ALARM FLASHING STROBE LIGHT - WALL MOUNTED	NOTE 5
	DOUBLE POLE TOGGLE SWITCH	48" TOD		COMBINATION FIRE ALARM HORN AND FLASHING STROBE LIGHT	NOTE 5
	THREE WAY TOGGLE SWITCH (SPDT)	48" TOD		C - CEILING SPEAKER, F - FIRE ALARM SPEAKER	NOTE 5
	FOUR WAY TOGGLE SWITCH (DPDT)	48" TOD		FIRE ALARM SPEAKER W/ STROBE	
	KEY OPERATED SWITCH	48" TOD		HORN TYPE SPEAKER	
	THREE WAY DIMMER SWITCH: SUB-LETTER INDICATES FIXTURES CONTROLLED (a)	48" TOD		MAGNETIC DOOR HOLDER	
	MANUAL STARTER W/ OVERLOADS	48" TOD		DIGITAL ALARM COMMUNICATOR TRANSMITTER	
	SWITCH W/ PILOT LIGHT	48" TOD		FIRE ALARM ANNUNCIATOR PANEL	
	DIMMER SWITCH	48" TOD		FIRE ALARM CONTROL PANEL	
	4 BUTTON DIMMER SWITCH	48" TOD		RESCUE ASSISTANCE MASTER CONTROL PANEL	48" TOD
	LOW VOLTAGE CONTROL SWITCH	48" TOD		RESCUE ASSISTANCE REMOTE STATION	48" TOD
	MANUAL TIME SWITCH	48" TOD		FIRE ALARM TRANSPONDER	48" TOD
	MOMENTARY CONTACT SWITCH	48" TOD		DOOR SOLENOID, ELECTRIC STRIKE - LOCKING DEVICE CONNECTION POINT	
	SWITCH WITH WEATHERPROOF ENCLOSURE	48" TOD		FIRE ALARM PULL STATION	48" TOD
	OCCUPANCY SENSOR (CEILING & WALL MOUNTED)			HEAT DETECTOR: E - ELEVATOR CONTROLS	
	VACANCY SENSOR			SMOKE DETECTOR (PHOTOELECTRIC): AD - AUDIBLE BASE, E - ELEVATOR CONTROLS	
	TIME CLOCK			SMOKE DETECTOR (IONIZATION)	
	RELAY			FIRE ALARM DUCT DETECTOR WITH RELAY	
	LIGHTING CONTACTOR			CARBON MONOXIDE DETECTOR	
	PHOTOCELL OR PUSHPLATE SWITCH			FIRE ALARM SYSTEM ADDRESSABLE RELAY - CONTROL	
	EMERGENCY SHUNT RELAY, UL 924 LISTED (CEILING MOUNTED)			FIRE ALARM SYSTEM ADDRESSABLE RELAY - MONITOR	
	LIGHTING FIXTURE: RECESSED, SURFACE, OR PENDANT MOUNTED - TYPE AS SPECIFIED			FIRE ALARM SYSTEM REMOTE ALARM LIGHT	
	LIGHTING FIXTURE: 2 BALLAST			FLOW SWITCH CONNECTION	
	LIGHTING FIXTURE: INDUSTRIAL			TAMPER SWITCH CONNECTION	
	LIGHTING FIXTURE: WALL MOUNTED - TYPE AS SPECIFIED			FIRE ALARM LINEAR BEAM SMOKE DETECTOR: TRANSMITTER (LBT) AND RECEIVER (LBR)	
	LIGHTING FIXTURE: RECESSED, SURFACE, OR PENDANT MOUNTED			FIRE FIGHTER'S TELEPHONE JACK	48" TOD
	LIGHTING FIXTURE: WALL MOUNTED - TYPE AS SPECIFIED			MONITOR SYSTEM JUNCTION BOX	36" CTR
	WALL WASHER			AMPLIFIER	
	ADJUSTABLE WALL WASHER			KEYPAD	48" TOD
	LIGHTING FIXTURE ON EMERGENCY OR NIGHT LIGHT CIRCUIT (NL)			CARD READER	48" TOD
	EMERGENCY BATTERY PACK: W - NUMBER OF HEADS INDICATED			DOOR ALARM CONTACT	
	EMERGENCY BATTERY PACK: W - REMOTE HEADS			ROUGH-IN JUNCTION BOX FOR CCTV CAMERA	
	REMOTE EMERGENCY HEAD			PUSH BUTTON PLATE	
	EMERGENCY BATTERY PACK: SEMI-RECESSED, CEILING MOUNT			TELEVISION ANTENNA OUTLET	18" CTR
	EXIT SIGN: CEILING OR PENDANT MOUNTED (SHADED PORTION INDICATES FACE)			CABLE TV OUTLET	
	EXIT SIGN: WALL MOUNTED - END, BACK			TELEVISION SYSTEM SPLITTER - 2 WAY, 4 WAY	
	EXIT SIGN: W - DIRECTIONAL ARROWS			A/V CREDENZA LOCATION	
	POLE MOUNTED LIGHTING FIXTURE: SINGLE HEAD, DOUBLE HEAD			A/V INPUT PLATE	
	POLE MOUNTED LIGHTING FIXTURE: SINGLE, POLE TOP			A/V IN WALL RACK	
	LIGHTING POLE (SPORTS)			COMBINATION MAGNETIC MOTOR STARTER: ABBREVIATION INDICATES TYPE - FVNR, FVR, RVAT, 2S1W, 2S2W, 2S3T	
				VARIABLE FREQUENCY CONTROLLER W/ FUSED DISCONNECT SWITCH	
				VARIABLE FREQUENCY DRIVE W/ DISCONNECT SWITCH	
				MOTOR: NUMERALS (IF SHOWN) INDICATE HP	
				GENERATOR: NUMERALS (IF SHOWN) INDICATE KW	
				MANUAL MOTOR STARTER W/ THERMAL OVERLOADS	
				MOTOR SWITCH	
				MECHANICAL EQUIPMENT CONNECTION - WITH MOTOR	
				MECHANICAL EQUIPMENT CONNECTION - NO MOTOR	
				CONTROL PANEL: TYPE AS INDICATED	
				MOMENTARY CONTACT START-STOP PUSHBUTTON STATION	48" TOD
				MAINTAINED CONTACT START-STOP PUSHBUTTON STATION	48" TOD
				MAINTAINED CONTACT EMERGENCY STOP PUSHBUTTON STATION	48" TOD
				BRANCH PANELBOARD	90" TOD
				DISTRIBUTION PANELBOARD	
				TRANSFORMER: CONCRETE PAD MOUNTED	

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		LFA	LOCKED MOTOR AMPERES	
AC	ALTERNATING CURRENT		LTG	LIGHTING	
AFCI	ARC FAULT CIRCUIT INTERRUPTER		LTNG	LIGHTNING	
AF	ABOVE FINISHED FLOOR				
AFS	ABOVE FINISH GRADE				
AHU	AIR HANDLING UNIT				
AIC	AMPS INTERRUPTING CAPACITY				
ALT	ALTERNATE				
AMN	ANNUNCIATOR				
APPROX	APPROXIMATELY				
ARCH	ARCHITECT				
ATC	AUTOMATIC TEMPERATURE CONTROL				
ATS	AUTOMATIC TRANSFER SWITCH				
AV	AUDIOVISUAL				
AWG	AMERICAN WIRE GAUGE				
BAS	BUILDING AUTOMATION SYSTEM				
BFC	BELOW FINISHED CEILING				
BFG	BELOW FINISHED GRADE				
BOLD	BUILDING				
BOD	BOTTOM OF DEVICE				
C	COND				
CND	CONDUIT				
CATV	CABLE TELEVISION				
CB	CIRCUIT BREAKER				
CCTV	CLOSED CIRCUIT TELEVISION				
CCT	CIRCUIT				
CL	CURRENT LIMITING				
CLD	CEILING				
CONN	CONNECT				
CPT	CONTROL POWER TRANSFORMER				
CT	CURRENT TRANSFORMER				
CTR	CONTRACTOR				
CU, CO	COPPER				
CX	CONNECT TO EXISTING				
DC	DIRECT CURRENT				
DISC	DISCONNECT				
DN	DOWN				
DP	DISTRIBUTION PANEL				
DPST	DOUBLE POLE DOUBLE THROW				
DPST	DOUBLE POLE SINGLE THROW				
DT	DRIP TRAY				
EA	EMERGENCY				
EA	EMPTY CONDUIT				
EC	EXHAUST FAN				
EH	ELECTRIC HEATER				
ELEC	ELECTRIC				
ELEV	ELEVATION ELEVATOR				
ETR	EXISTING TO REMAIN				
EW	ELECTRIC WATER COOLER				
EX	EXISTING				
EXP	EXPOSED				
FA	FIRE ALARM				
FAAP	FIRE ALARM ANNUNCIATOR PANEL				
FACP	FIRE ALARM CONTROL PANEL				
FBO	FURNISHED BY OTHERS				
FC	FAN COOL				
FDR	FEEDER				
FLA	FULL LOAD AMPERES				
FLR	FLOOR				
FR	FRAME				
FU	FUSED, FUSIBLE				
FUSS	FUSED SAFETY SWITCH				
FVNR	FULL VOLTAGE NON-REVERSING				
FVR	FULL VOLTAGE REVERSING				
GEN	GENERATOR, GENERAL				
GFCI	GROUND FAULT CIRCUIT INTERRUPTER				
GP	GROUND FAULT INTERRUPTER				
GFP	GROUND FAULT PROTECTED				
GFR	GROUND FAULT RELAY				
GRD	GROUND				
GRS	GALVANIZED RIGID STEEL				
HQ	HIGH INTENSITY DISCHARGE				
HGA	HAND OFF AUTOMATIC				
HP	HEAT PUMP, HORSEPOWER				
HPS	HIGH PRESSURE SODIUM				
HTR	HEATER				
HW	HIGH VOLTAGE				
HZ	HERTZ				
IG	ISOLATED GROUND				
JB	JUNCTION BOX				
KCAL	THOUSAND CIRCULAR MILS				
KV	KILOVOLTS				
KVA	KILOVOLT AMPERES				
KVAR	KILOVOLT AMPERES REACTIVE				
KW	KILOWATTS				



ELECTRICAL SYMBOLS NOTES

- THIS IS A STANDARD SYMBOL LIST. SOME SYMBOLS MAY NOT APPEAR ON THE ACCOMPANYING DRAWINGS.
- REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.
- PLAN AND SECTION SYMBOLS MAY ALSO BE USED ON RISER DIAGRAMS.
- ON SINGLE LINE DIAGRAMS FOR 3 PHASE SYSTEMS, DEVICE QUANTITY - 3, UNLESS OTHERWISE NOTED.
- DEVICE SHALL BE MOUNTED A MINIMUM OF 90" AFF TO BOTTOM OF DEVICE OR BELOW THE FINISHED CEILING OF NOT LESS THAN 6" TO TOP OF DEVICE, WHICHEVER IS LOWER.
- UNLESS OTHERWISE NOTED, ALL INTERIOR CONDUITS AND BOXES SHALL BE CONCEALED.

ELECTRICAL DRAWING PRESENTATION

SYMBOL	DESCRIPTION
	REVISION NUMBER
	DRAWING NOTE NUMBER
	SECTION/ELEVATION IDENTIFICATION
	PART PLAN AND DETAIL IDENTIFICATION
	EXISTING LINE TYPE
	NEW ELECTRICAL WORK LINE TYPE
	FUTURE ELECTRICAL WORK LINE TYPE
	DEMOLITION LINE TYPE ON DEMOLITION DRAWINGS

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DRAWING TITLE  
**ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS**

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