

# SYMBOLS & ABBREVIATIONS



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## CIRCUITS

- CONDUIT CONCEALED IN WALL OR CEILING WITH PHASE, NEUTRAL AND GROUND CONDUCTOR UNLESS OTHERWISE NOTED
- SWITCH LEG
- CONDUIT UNDERGROUND / UNDER SLAB
- HOME RUN TO PANEL. CIRCUIT NUMBERS, PHASE, NEUTRAL AND GROUND CONDUCTORS INDICATED. ALL CONDUCTORS TO BE #12 EXCEPT WHERE NOTED. CONDUIT TO BE 1/2" OR AS NOTED ON PLANS AND SPECIFICATIONS.
- SPLIT CIRCUIT

## EQUIPMENT

- MOTOR, HP AS INDICATED
- CONTROLLER TO BE FURNISHED UNDER DIVISION 15
- VARIABLE FREQUENCY DRIVE CONTROLLER FURNISHED UNDER DIVISION 15
- DISCONNECT SWITCH
- COMBINATION MOTOR STARTER/DISCONNECT SWITCH
- INTERCOM J BOX, WALL MOUNTED AT HEIGHT INDICATED ON DRAWINGS
- INTERCOM J BOX, CEILING MOUNTED
- JUNCTION BOX, CEILING MOUNTED
- JUNCTION BOX, WALL MOUNTED
- PULL BOX
- PULL CORD
- SPEAKER, CEILING MOUNTED
- EQUIPMENT CONNECTION
- PHOTOCELL ON ROOF
- PANELBOARD (SURFACE MOUNTED)
- PANELBOARD (RECESSED MOUNTED)
- SWITCHBOARD OR DISTRIBUTION BOARD
- PLYWOOD TELEPHONE BACKBOARD
- DUCT TYPE SMOKE DETECTOR WITH SAMPLING TUBES FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.

## RECEPTACLES

- GROUND CONNECTION.
- 20 AMP SIMPLEX RECEPTACLE, +16" OR AS NOTED.
- 20 AMP DUPLEX RECEPTACLE, +16" OR AS NOTED.
- 20 AMP GROUND FAULT DUPLEX RECEPTACLE, +16" OR AS NOTED.
- 20 AMP DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP OR AS NOTED ON ARCHITECTURAL DRAWINGS.
- TAMPER RESISTANT DUPLEX RECEPTACLE, +16" OR AS NOTED.
- 20 AMP QUAD PLEX RECEPTACLE, +16" OR AS NOTED.
- GROUND FAULT DUPLEX RECEPTACLE, +16" OR AS NOTED.
- RECEPTACLE ON EMERGENCY CIRCUIT (COLOR RED)
- 20 AMP FLOOR MOUNTED DUPLEX RECEPTACLE
- 20 AMP CEILING MOUNTED DUPLEX RECEPTACLE
- 120V, 1PH EQUIPMENT CONNECTION RECEPTACLE, +16" OR AS NOTED
- 208V, 1PH EQUIPMENT CONNECTION RECEPTACLE, +16" OR AS NOTED
- 208V, 3PH EQUIPMENT CONNECTION RECEPTACLE, +16" OR AS NOTED
- 480V, 1PH EQUIPMENT CONNECTION RECEPTACLE, +16" OR AS NOTED
- 480V, 3PH EQUIPMENT CONNECTION RECEPTACLE, +16" OR AS NOTED
- THERMOSTAT PROVIDED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE JUNCTION BOX AND CONDUIT.
- T.V. OUTLET
- DATA OUTLET. PROVIDE 4"x4" J-BOX WITH SINGLE GANG RING AND 3/4" CONDUIT AND PULLSTRING STUBBED ABOVE CEILING, +16" OR AS NOTED.
- PHONE OUTLET. PROVIDE 4"x4" J-BOX WITH SINGLE GANG RING AND 3/4" CONDUIT AND PULLSTRING STUBBED ABOVE CEILING, +16" OR AS NOTED.
- TELE/DATA JACK

## LIGHTING

- HID SITE LIGHTING FIXTURE MOUNTED ON A POLE
- INCANDESCENT, FLUORESCENT OR HID FIXTURE, RECESSED FIXTURE
- DOWNLIGHT
- INCANDESCENT, FLUORESCENT OR HID FIXTURE, WALL MOUNTED
- FLUSH MOUNT FIXTURE
- PENDANT FIXTURE
- WALL SCONCE FIXTURE
- WALL PACK
- FLUORESCENT 2x4 FIXTURE, CEILING OR SURFACE MOUNTED,
- FLUORESCENT 2x4 FIXTURE, WITH EMERGENCY BATTERY PACK
- FLUORESCENT 2x2 FIXTURE, CEILING OR SURFACE MOUNTED,
- FLUORESCENT 2x2 FIXTURE, WITH EMERGENCY BATTERY PACK
- FLUORESCENT 1x4 FIXTURE
- FLUORESCENT 1x4 FIXTURE, WITH EMERGENCY BATTERY PACK
- FLUORESCENT STRIP FIXTURE
- FLUORESCENT STRIP FIXTURE, WITH EMERGENCY BATTERY PACK
- EXIT LIGHT, DIRECTION ARROWS AS INDICATED
- EXIT LIGHT, DIRECTION ARROWS AS INDICATED
- EMERGENCY LIGHT
- MOTION SENSOR, WALL MOUNTED
- MOTION SENSOR, CEILING MOUNTED
- SINGLE POLE TOGGLE SWITCH, +3'-10" OR AS NOTED.
- SINGLE POLE SWITCH, SUBSCRIPT INDICATES ASSOCIATED CIRCUITRY
- DOUBLE-POLE TOGGLE SWITCH, +3'-10" OR AS NOTED.
- THREE-WAY SWITCHED, +3'-10" OR AS NOTED.
- DIMMER SWITCH
- PILOT LIGHT
- SINGLE POLE OCCUPANCY SWITCH
- MANUAL MOTOR STARTER (T=THERMAL OVERLOAD SIZED FOR MOTOR)

## SPECIAL SYSTEMS

- DUCT MOUNTED SMOKE DETECTOR
- CEILING MOUNTED SMOKE DETECTOR
- DOOR LOCK RELEASE BUTTON
- BEACON LIGHT
- DOOR LOCKS
- AUDIO/VISUAL FIRE ALARM
- AUDIO/VISUAL FIRE ALARM, CEILING
- VISUAL FIRE ALARM
- AUDIO FIRE ALARM
- FIRE PULL STATION
- FIRE PULL STATION HORN
- HORN
- NURSE CALL STATION
- FIRE ALARM CONTROL PANEL
- FIRE ALARM ANNUNCIATOR

## DEMOLITION

- CONDUIT, EQUIPMENT, DEVICE TO BE DEMOLISHED.
- (LIGHT SHADE) EXISTING TO REMAIN.

## ABBREVIATIONS

ABV	ABOVE	GAL	GALLON	RA	RETURN AIR
AC	ABOVE COUNTER	GALV	GALVANIZED	RE-4P6	REFER TO DETAIL 4 DRAWING P-6
A/C	AIR CONDITIONED	GEC	GROUNDING EQUIPMENT CONDUCTOR	REQ'D	REQUIRED
AD	ACCESS DOOR	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	RET	RETURN
A.F.	ARC FAULT	GND	GROUND	RF	RELIEF FAN
AFF	ABOVE FINISHED FLOOR	GPM	GALLONS PER MINUTE	RG	RETURN GRILLE
AFG	ABOVE FINISHED GRADE	HP	HORSEPOWER	RH	RELATIVE HUMIDITY
AHU	AIR HANDLING UNIT	HZ	HERTZ	RHD	RELIEF HOOD
AC	AMPERE INTERRUPTING CAPACITY	IC	INTERCOM	RPM	REVOLUTIONS PER MINUTE
AMCA	AIR MOVING AND CONDITIONING ASSOCIATION, INC.	IE	INVERT ELEVATION	SA	SUPPLY AIR
AMP	AMPERE(S)	IG	ISOLATED GROUND	SC	SPLIT CIRCUIT
&	AND	IN	INCHES	SD	SMOKE DAMPER
AP	ACCESS PANEL	INC	INCANDESCENT	SEC	SECOND
APPROX	APPROXIMATE	IN WG	INCHES OF WATER	SF	SUPPLY FAN
ARCH	ARCHITECTURAL	INSUL	INSULATION	SMACNA	SHEET METAL AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
⊙	AT	JB	JUNCTION BOX	SP	STATIC PRESSURE SPECIFICATION
AV	AUTOMATIC AIR VENT ASSEMBLY	KVA	KILOVOLT AMPERE	SPEC	SPECIFICATION
AUX	AUXILIARY	KW	KILOWATT	STD	STANDARD
		LAT	LEAVING AIR TEMPERATURE	STL	STEEL
BLDG	BUILDING	LB	POUND	SU	STUB UP FROM FLOOR
C	CONDUIT	LPA	LINE PRESSURE ALARM	SW	SWITCH
CA	COMPRESSED AIR	LVR	LOUVER	SWBD	SWITCHBOARD
CA TV	CABLE TELEVISION	MA	MEDICAL AIR	T	TELEPHONE
CB	CIRCUIT BREAKER	MAX	MAXIMUM	TEMP	TEMPERATURE
CI	CAST IRON	MD	MANUAL DAMPER	TXV	THERMOSTATIC EXPANSION VALVE
CLG	CEILING	MECH	MECHANICAL	TV	TELEVISION
CKT	CIRCUIT	MH	MOUNTING HEIGHT	TYP	TYPICAL
CO	CLEANOUT	MIN	MINIMUM	UF	UNDER FLOOR
COND	CONDENSATE	MLO	MAIN LUGS ONLY	UGSE	UNDERGROUND SECONDARY ELECTRIC
CONN	CONNECTION	MTG	MOUNTING	UL	UNDERWRITERS LABORATORIES
CONT	CONTINUATION	MV	MEDICAL VACUUM	UPE	UNDERGROUND PRIMARY ELECTRIC
CU	CONDENSING UNIT	NA	NOT APPLICABLE	UON	UNLESS OTHERWISE NOTED
CU	COPPER	NC	NORMALLY CLOSED	V	VACUUM
CL	CENTER LINE	NC	NOT IN CONTRACT	V	VOLT(S)
		NO	NORMALLY OPEN	VB	VALVE BOX
D	DRAIN	NTS	NOT TO SCALE	VEL	VELOCITY
DB	DRY BULB	N <sub>2</sub>	NITROGEN	VENT	VENTILATE
DIA	DIAMETER	O <sub>2</sub>	OXYGEN	VFD	VARIABLE FREQUENCY DRIVE
DIST	DISTRIBUTION	OA	OUTSIDE AIR	VOL	VOLUME
DN	DOWN	OA H	OUTSIDE AIR INTAKE HOOD	VTR	VENT THRU ROOF
DWGS	DRAWINGS	OBD	OPPOSED BLADE DAMPER	W	WIRE
(e)	EXISTING	OC	ON CENTER	W/	WITH
EA	EACH	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED OVERHEAD	W/O	WITHOUT
EAT	ENTERING AIR TEMPERATURE	OH	OVERHEAD	W.A.G.E.	WASTE ANESTHESIA GAS EVACUATION
EF	EXHAUST FAN	OS&Y	OUTSIDE SCREW & YOKE GATE VALVE	WB	WET BULB
ELEV	ELEVATION	P	PUMP	WP	WEATHERPROOF
ELEC	ELECTRIC	P-2	PLBG. FIXTURE DESIGNATION	Y.C.O.	YARD CLEANOUT
EG	EXHAUST GRILLE	PCT	PERCENT (%)	ZVB	ZONE VALVE BOX
EGC	EQUIPMENT GROUNDING CONDUCTOR	PLBG	PLUMBING	1P	ONE POLE
ENT	ENTERING EQUIPMENT	PNL	PANELBOARD	2P	TWO POLE
EQUIP	EQUIPMENT	PRESS	PRESSURE	3P	THREE POLE
ER	EXHAUST REGISTER	PRV	PRESSURE REDUCING VALVE	ϕ	PHASE
ESP	EXTERNAL STATIC PRESSURE	PSIG	POUNDS PER SQUARE INCH GAS	+44	HEIGHT ABOVE FLOOR TO CENTER LINE OF OUTLET BOX
EW	ENTERING WATER TEMP.	PWR	POWER		
EXH	EXHAUST				
EXIST	EXISTING				
F	DEGREES FAHRENHEIT				
FD	FIRE DAMPER				
FLEX	FLEXIBLE				
FLG	FLANGE				
FLR	FLOOR				
FPM	FEET PER MINUTE				
FT	FEET, FOOT				

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## ELECTRICAL SYMBOLS AND ABBREVIATIONS

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