



ELECTRICAL SYMBOLS

	CONVENIENCE OUTLET - SET 12" AFF U.N.O.		EXHAUST FAN
	CONVENIENCE OUTLET -42" AFF		VENT TO EXT.
	CONV. OUTLET -MOUNTED HORIZ. IN BACKSPLASH		EXHAUST FAN / LIGHT COMBO
	CONV. OUTLET -220 VOLT		FAN / LITE COMBO
	CONVENIENCE OUTLET - 1/2 SWITCHED 12" A.F.F.		VENT TO EXT.
	CONV. OUTLET- WATER PROOF- GRND FAULT INTERUPT		ELECTRIC PANEL
	GARAGE DOOR OPENER		COMPRESSOR
	SWITCH, 3-WAY, 4-WAY- SET 38" AFF U.N.O.		CLNG FAN
	STACKED SWITCH		CENTRAL VACCUUM OUTLET
	LIGHT FIXTURE		SECURITY PANEL
	LIGHT FIXTURE		INTERCOM
	RECESSED LIGHT FIXTURE		NON FUSED DISCONNECT SWITCH
	FLOURESCENT LIGHT		CONTROL CONSOLE
	DOORBELL CHIMES		SECURITY SENSORS
	DOORBELL @ 32" A.F.F.		ALARM HORN
	ELEC. METER		MOTION DETECTOR
	GAS METER		JUNCTION BOX @ DISH WASHER
	TELEPHONE OUTLET + 12" A.F.F.		THERMOSTAT
	T.V. OUTLET + 12" A.F.F.		DOORBELL TRANSFORMER
	SMOKE DETECTOR		WEATHER PROOF

HVAC SYMBOLS		
EQUIPMENT SYMBOLS	DUCTWORK	HEATING PIPING
EXPOSED RADIATOR	DUCT (1ST FIGURE, WIDTH; 2ND FIGURE, DEPTH) 12 X 26	HIGH-PRESSURE STEAM HPS
RECESSED RADIATOR	DIRECTION OF FLOW	MEDIUM-PRESSURE STEAM MPS
FLUSH ENCLOSED RADIATOR	FLEXIBLE CONNECTION	LOW-PRESSURE STEAM LPS
PROJECTING ENCLOSED RADIATOR	DUCTWORK WITH ACOUSTICAL LINING	HIGH-PRESSURE RETURN HPR
UNIT HEATER (PROPELLER) - PLAN	FIRE DAMPER WITH ACCESS DOOR	MEDIUM-PRESSURE RETURN MPR
UNIT HEATER (CENTRIFUGAL) - PLAN	MANUAL VOLUME DAMPER	LOW-PRESSURE RETURN LPR
UNIT VENTILATOR - PLAN	AUTOMATIC VOLUME DAMPER	BOILER BLOW OFF BO
STEAM	EXHAUST, RETURN OR OUTSIDE AIR DUCT - SECTION	CONDENSATE OR VACUUM PUMP DISCHARGE VPD
DUPLEX STRAINER	SUPPLY DUCT - SECTION	FEEDWATER PUMP DISCHARGE FPD
PRESSURE-REDUCING VALVE	CEILING DIFFUSER SUPPLY OUTLET	MAKEUP WATER MU
AIR LINE VALVE	CEILING DIFFUSER SUPPLY OUTLET	AIR RELIEF LINE V
STRAINER	LINEAR DIFFUSER	FUEL OIL SUCTION FOS
THERMOMETER	FLOOR REGISTER	FUEL OIL RETURN FOR
PRESSURE GAUGE AND COCK	TURNING VANES	FUEL OIL VENT FOV
RELIEF VALVE	FAN AND MOTOR WITH BELT GUARD	COMPRESSED AIR A
AUTOMATIC 3-WAY VALVE	LOUVER OPENING	HOT WATER HEATING SUPPLY HW
AUTOMATIC 2-WAY VALVE		HOT WATER HEATING RETURN HWR
SOLENOID VALVE		
		AIR CONDITIONING PIPING
		REFRIGERANT LIQUID RL
		REFRIGERANT DISCHARGE RD
		REFRIGERANT SUCTION RS
		CONDENSER WATER SUPPLY CWS
		CONDENSER WATER RETURN CWR
		CHILLED WATER SUPPLY CHWS
		CHILLED WATER RETURN CHWR
		MAKEUP WATER MU
		HUMIDIFICATION LINE H
		DRAIN D

Common Engineering Drawing Symbols and Meanings



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Common Engineering Drawing Symbols Job Aid

NFPA 1033—Job Performance Requirement 4.3—Documenting the Scene
4.3.1 Requisite Knowledge and Requisite Skill

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Global Leaders in Fire Investigation

PLOT PLAN SYMBOLS									
	NORTH		FIRE HYDRANT		WALK		E OR	ELECTRIC SERVICE	
	POINT OF BEGINNING (POB)		MAILBOX		IMPROVED ROAD		G OR	NATURAL GAS LINE	
	UTILITY METER OR VALVE		MANHOLE		UNIMPROVED ROAD		W OR	WATER LINE	
	POWER POLE AND GUY		TREE		BUILDING LINE		T OR	TELEPHONE LINE	
	LIGHT STANDARD		BUSH		PROPERTY LINE		N OR	NATURAL GRADE	
	TRAFFIC SIGNAL		HEDGE ROW		PROPERTY LINE		F OR	FINISH GRADE	
	STREET SIGN		FENCE		TOWNSHIP LINE		+ XX.00'	EXISTING ELEVATION	

DRAWING SYMBOLS									
	Elevation No. Reference Drawing Page No.		Dimension from Center to Center		SINGLE DOOR, OPENING INWARD		DOUBLE DOOR, OPENING INWARD		SINGLE DOOR, OPENING OUT
	Section No. Reference Drawing Page No.		Dimension from Edge to Edge		SINGLE DOOR, INTERIOR		DOUBLE DOOR, INTERIOR		DOUBLE-ACTING SINGLE DOOR
	Detail No. Reference Drawing Page No.		Dimension from Center to Edge		REFRIGERATOR DOOR		IN AND OUT DOORS		SLIDING DOORS
	Floor Finishing No.		Main Section		TYPICAL DOOR TYPES		DOUBLE HUNG		SINGLE, OPENING IN
	Wall Finishing No.		Sub Section		DOUBLE, OPENING OUT		RIGHT SASH OVER LEFT		LEFT SASH OVER RIGHT
	Ceiling Finishing No.		Detail No. Reference Drawing Page No.		PIVOTED AND VENTED		TYPICAL WINDOW TYPES		
	Room No.		Room Name or Room No. Ceiling Finishing No.						
	Floor Level		Floor Level						
	Boundary (Property) Line		Floor Finishing No.						