



ELECTRICAL SYMBOLS

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

HVAC SYMBOLS

EQUIPMENT SYMBOLS	DUCTWORK	HEATING PIPING
EXPOSED RADIATOR	DUCT (1ST FIGURE, WIDTH; 2ND FIGURE, DEPTH)	HIGH-PRESSURE STEAM
RECESSED RADIATOR	DIRECTION OF FLOW	MEDIUM-PRESSURE STEAM
FLUSH ENCLOSED RADIATOR	FLEXIBLE CONNECTION	LOW-PRESSURE STEAM
PROJECTING ENCLOSED RADIATOR	DUCTWORK WITH ACOUSTICAL LINING	HIGH-PRESSURE RETURN
UNIT HEATER (PROPELLER) - PLAN	FIRE DAMPER WITH ACCESS DOOR	MEDIUM-PRESSURE RETURN
UNIT HEATER (CENTRIFUGAL) - PLAN	MANUAL VOLUME DAMPER	LOW-PRESSURE RETURN
UNIT VENTILATOR - PLAN	AUTOMATIC VOLUME DAMPER	BOILER BLOW OFF
STEAM	EXHAUST, RETURN OR OUTSIDE AIR DUCT - SECTION	CONDENSATE OR VACUUM PUMP DISCHARGE
DUPLEX STRAINER	SUPPLY DUCT - SECTION	FEEDWATER PUMP DISCHARGE
PRESSURE-REDUCING VALVE	CEILING DIFFUSER SUPPLY OUTLET	MAKEUP WATER
AIR LINE VALVE	CEILING DIFFUSER SUPPLY OUTLET	AIR RELIEF LINE
STRAINER	LINEAR DIFFUSER	FUEL OIL SUCTION
THERMOMETER	FLOOR REGISTER	FUEL OIL RETURN
PRESSURE GAUGE AND COCK	TURNING VANES	FUEL OIL VENT
RELIEF VALVE	FAN AND MOTOR WITH BELT GUARD	COMPRESSED AIR
AUTOMATIC 3-WAY VALVE	LOUVER OPENING	HOT WATER HEATING SUPPLY
AUTOMATIC 2-WAY VALVE		HOT WATER HEATING RETURN
SOLENOID VALVE		
		AIR CONDITIONING PIPING
		REFRIGERANT LIQUID
		REFRIGERANT DISCHARGE
		REFRIGERANT SUCTION
		CONDENSER WATER SUPPLY
		CONDENSER WATER RETURN
		CHILLED WATER SUPPLY
		CHILLED WATER RETURN
		MAKEUP WATER
		HUMIDIFICATION LINE
		DRAIN

Common Engineering Drawing Symbols and Meanings



PLOT PLAN SYMBOLS			
	NORTH		FIRE HYDRANT
	POINT OF BEGINNING (POB)		MAILBOX
	UTILITY METER OR VALVE		MANHOLE
	POWER POLE AND GUY		TREE
	LIGHT STANDARD		BUSH
	TRAFFIC SIGNAL		HEDGE ROW
	STREET SIGN		FENCE
			WALK
			IMPROVED ROAD
			UNIMPROVED ROAD
			BUILDING LINE
			PROPERTY LINE
			PROPERTY LINE
			TOWNSHIP LINE
			ELECTRIC SERVICE
			NATURAL GAS LINE
			WATER LINE
			TELEPHONE LINE
			NATURAL GRADE
			FINISH GRADE
			EXISTING ELEVATION

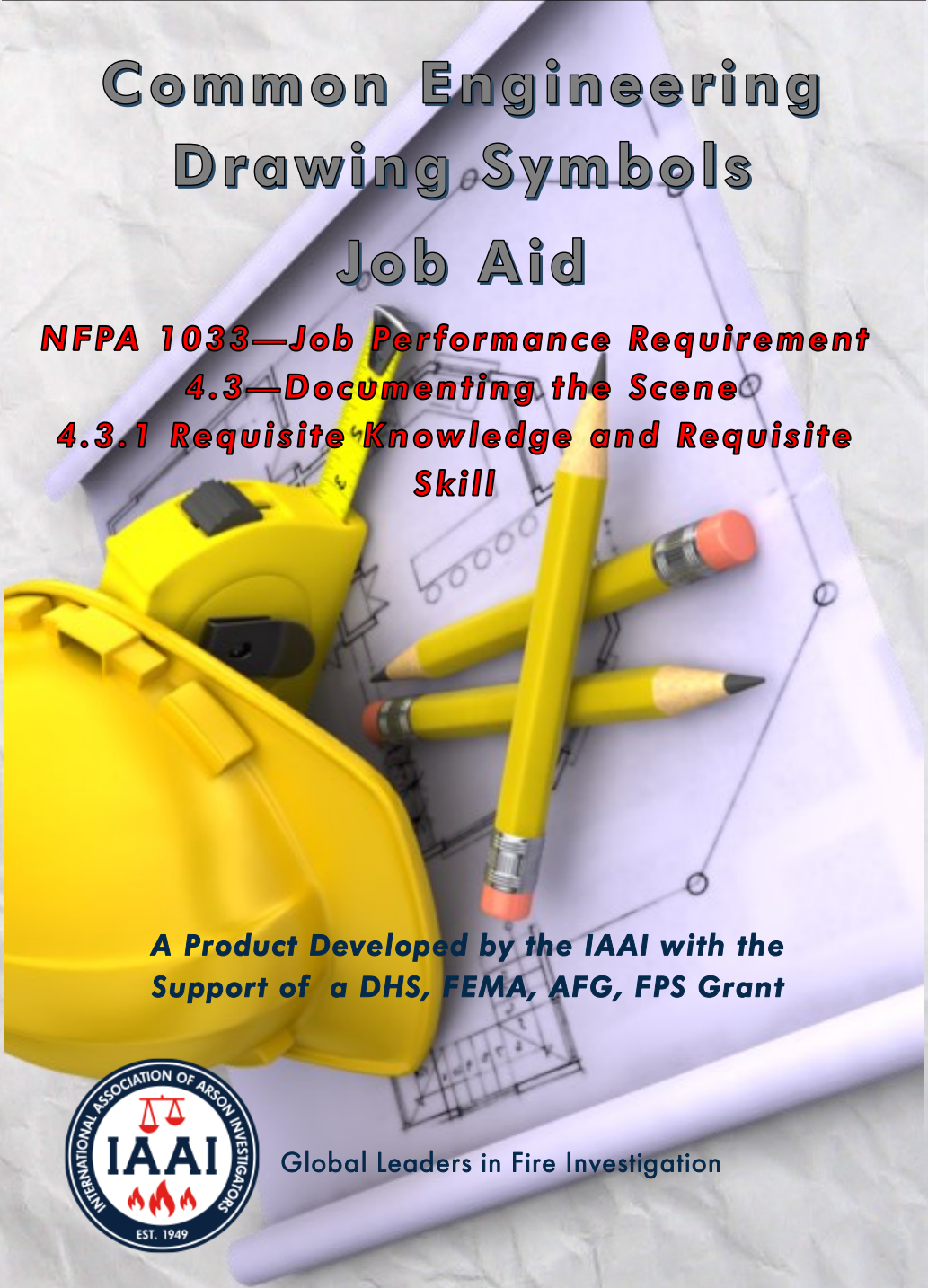
DRAWING SYMBOLS	
	Elevation No. Reference Drawing Page No.
	Section No. Reference Drawing Page No.
	Detail No. Reference Drawing Page No.
	Floor Finishing No.
	Wall Finishing No.
	Ceiling Finishing No.
	Room No.
	Floor Level
	Boundary (Property) Line
	Dimension from Center to Center
	Dimension from Edge to Edge
	Dimension from Center to Edge
	Main Section
	Sub Section
	Detail No. Reference Drawing Page No.
	Room Name or Room No. Ceiling Finishing No.
	Floor Level
	Floor Finishing No.

TYPICAL DOOR TYPES	
	SINGLE DOOR, OPENING INWARD
	SINGLE DOOR, OPENING OUT
	SINGLE DOOR, INTERIOR
	DOUBLE-ACTING SINGLE DOOR
	REFRIGERATOR DOOR
	DOUBLE DOOR, OPENING INWARD
	DOUBLE DOOR, OPENING OUT
	DOUBLE DOOR, INTERIOR
	IN AND OUT DOORS
	SLIDING DOORS
	DOUBLE HUNG
	SINGLE, OPENING IN
	DOUBLE, OPENING OUT
	RIGHT SASH OVER LEFT
	PIVOTED AND VENTED
	LEFT SASH OVER RIGHT

TYPICAL WINDOW TYPES	
	DOUBLE HUNG
	SINGLE, OPENING IN
	DOUBLE, OPENING OUT
	RIGHT SASH OVER LEFT
	PIVOTED AND VENTED
	LEFT SASH OVER RIGHT

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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