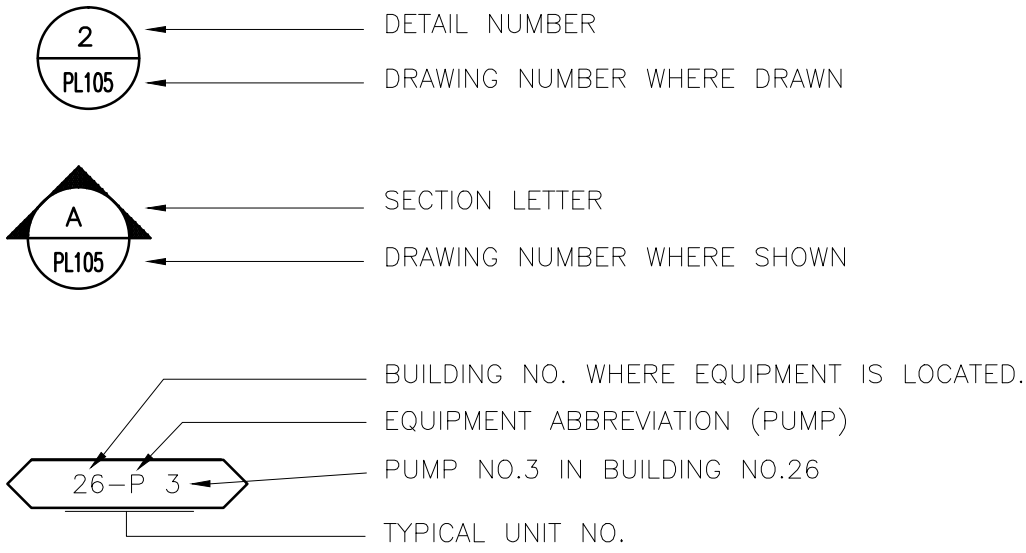


A
three inches = one foot
B
one and one half inches = one foot
C
one inch = one foot
D
three quarters inch = one foot
E
one half inch = one foot
F
one quarter inch = one foot
G
one eighth inch = one foot

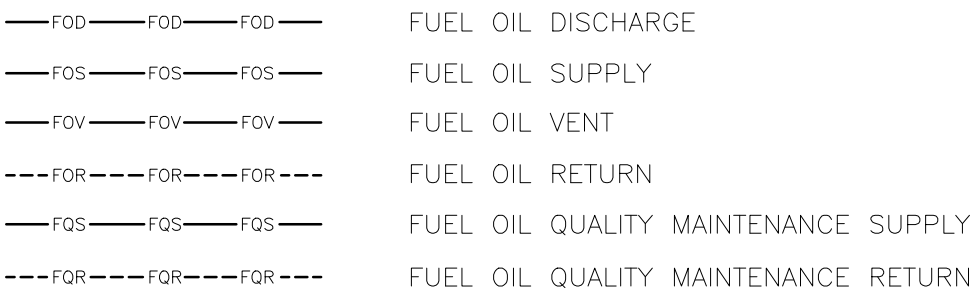
PLUMBING ABBREVIATIONS

A/E	ARCHITECT / ENGINEER	N2	NITROGEN
AD	AREA DRAIN	N2O	NITROUS OXIDE
AFT	ABOVE FINISH FLOOR	NC	NORMALLY CLOSED
AFG	ABOVE FINISH GRADE	NG	NATURAL GAS
AG	AIR GAP	NIC	NOT IN CONTRACT
AP	ACCESS PANEL	NO	NORMALLY OPEN
AS	AUTOMATIC SPRINKLER	NOM	NOMINAL
ASD	ADJUSTABLE SPEED DRIVES	NPW	NON POTABLE WATER
ASD	AUTOMATIC SPRINKLER DRAIN	NTC	NOT TO SCALE
ASHRAE	AMERICAN SOCIETY HEATING, REFRIGERATION, AIR CONDITIONING ENGINEERS	O2	OXYGEN
ASME	AMERICAN SOCIETY MECHANICAL ENGINEERS	OC	ON CENTER
ASPE	AMERICAN SOCIETY PLUMBING ENGINEERS	OD	OUTSIDE DIAMETER
ASR	AUTOMATIC SPRINKLER RISER	OFD	OVERFLOW DRAIN
AV	ACID VENT	OR	OPERATING ROOM
AW	ACID WASTE	OVFL	OVERFLOW
BFP	REDUCED PRESSURE BACKFLOW PREVENTER	PA	PASCAL
BHP	BREAK HORSEPOWER	PD	PRESSURE DROP OR DIFFERENCE
BSP	BLACK STEEL PIPE	PDI	PLUMBING AND DRAINAGE INSTITUTE
BT	BATHTUB	PG	PRESSURE GAGE
BTU	BRITISH THERMAL UNIT	PP	PLUMBING PUMP
BTUH	BRITISH THERMAL UNIT PER HOUR	PPM	PARTS PER MILLION
C	CELSIUS	PRS	PRESSURE REDUCING STATION
CGA	COMPRESSED GAS ASSOCIATION	PRV	PRESSURE REDUCING VALVE
CI	CAST IRON	PSI	POUNDS PER SQUARE INCH
CO	CLEANOUT	PSIA	POUNDS PER SQUARE INCH ATMOSPHERE
CS	CLINICAL SINK	PSIG	POUNDS PER SQUARE INCH GAUGE
CV	CONTROL VALVE	PTRV	PRESSURE TEMPERATURE RELIEF VALVE
DCW	DOMESTIC COLD WATER	PW	POTABLE WATER
DHW	DOMESTIC HOT WATER	RD	ROOF DRAIN
DHWIR	DOMESTIC HOT WATER RETURN	RDL	ROOF DRAIN LEADER
DHWR	DOMESTIC WATER RETURN	RL	ROOF LEADER
DHWS	DOMESTIC HOT WATER	RO	REVERSE OSMOSIS WATER
SUPPLY		RWL	RAIN WATER LEADER
DI	DEIONIZED WATER	SAN	SANITARY SEWER
DN	DOWN	SMACTA	SHEET METAL AND AIR CONDITIONING CONTRACTORS
DOE	DEPARTMENT OF ENERGY	NATIONAL ASSOCIATION	
DS	DOWNSPOUT	SCFM	STANDARD CUBIC FOOT/MINUTE
DW	DISHWASHER	SCW	SOFTENED COLD WATER
DWH	DOMESTIC WATER HEATER	SDMH	STORM DRAIN MANHOLE
DWR	DRINKING WATER RETURN	SP	SUMP PUMP
DWS	DRINKING WATER SUPPLY	SPR	SPRINKLER LINE
DWV	DRAIN WASTE VENT	SQFT	SQUARE FEET
EL	ELEVATION	SS	STAINLESS STEEL
EMCS	ENERGY MONOSERRAT AND CENTRAL SYSTEM	ST	STORAGE TANK
EPACT	EPA ENVIRONMENTAL PROTECTION AGENCY	STW	STORM WATER
ESC	ESCUTCHEON	TCV	TEMPERATURE CONTROL
ESH	EMERGENCY SHOWER	VALVE	
ET	EXPANSION TANK	TD	TEMPERATURE DIFFERENCE
EW	ELECTRIC WATER COOLER	TD	TRENCH DRAIN
EW	ELECTRIC WATER COOLER	TDH	TOTAL DYNAMIC HEAD
EW	ELECTRIC WATER HEATER	TEMP	TEMPERATURE
EWS	EYE WASH STATION	TMV	THERMOSTATIC MIXING VALVE
EX	EXISTING	TP	TRAP PRIMER
F	FAHRENHEIT	TSTAT	THERMOSTAT
FC	FLOOR CLEANOUT	TWR	TEMPERED WATER RETURN
FCW	FILTERED COLD WATER	TWS	TEMPERED WATER SUPPLY
FD	FLOOR DRAIN	TYP	TYPICAL
FDC	FIRE DEPARTMENT (HOSE) CONNECTION	UPC	UNIFORM PLUMBING CODE
FM	FLOW METER	V	VENT
FOP	FUEL OIL PUMP	VAC	VACUUM
FOR	FUEL OIL RETURN	VB	VACUUM BREAKER
FOS	FUEL OIL SUPPLY	VCO	VACUUM CLEANER OUTLET
FOV	FUEL OIL VENT	VP	VACUUM PUMP
FS	FLOOR SINK	VS	VENT STACK
FS	FLOW SWITCH	VTR	VENT THROUGH ROOF
FU	FIXTURE UNITS	W	WASTE
GAL	GALLON	WC	WATER CLOSET
GCO	GRADE CLEANOUTS	WCO	WALL CLEANOUT
GD	GALLONS PER DAY	WG	WATER GAGE
GPH	GALLONS PER HOUR	WH	WALL HYDRANT
GPM	GALLONS PER MINUTE	WH	WATER HEATER
GPR	GAS PRESSURE REGULATOR	WHA	WATER HAMMER ARRESTER
GRS	GAS REGULATOR STATION	WL	WATER LINE
GT	GREASE TRAP	WM	WATER METER
GTR	GAS VENT THROUGH ROOF	WPD	WATER PRESSURE DROP
GWH	GAS FIRED WATER HEATER	WS	WASTE STACK
H&CW	HOT AND COLD WATER	YCO	YARD CLEANOUT
HB	HOSE BIBB	YH	YARD HYDRANT
HD	HUB DRAIN		
HEX	HEAT EXCHANGER		
HP	HORSEPOWER		
HS	HAND SINK		
HST	HOT WATER STORAGE TANK (DOMESTIC)		
HWB	HOT WATER BOILER		
HWP	HOT WATER CIRCULATING PUMP		
HYD	HYDRANT		
ICW	INDUSTRIAL COLD WATER		
INV	INVERT		
IPC	INTERNATIONAL PLUMBING CODE		
IRW	IRRIGATION WATER		
IW	INDIRECT WASTE		
WH	INSTANTANEOUS WATER		
IWR	INDUSTRIAL WATER RETURN		
IWS	INDUSTRIAL WATER SUPPLY		
KW	KILOWATT		
KWHR	KILOWATT-HOUR		
L/S	LITER PER SECOND		
LA	LABORATORY AIR		
LAV	LAVATORY		
LBS/HR	POUNDS PER HOUR		
LW	LABORATORY COLD WATER		
LHW	LABORATORY HOT WATER		
LNG	LIQUID NATURAL GAS		
LOX	LIQUID OXYGEN		
LV	LABORATORY VACUUM		
LW	LOW WATER		
M	METER		
MA	MEDICAL AIR		
MAV	MANUAL AIR VENT		
MBH	1000 BTUH		
MED	MEDICAL		
MER	MECHANICAL EQUIPMENT		
ROOM			
MH	MANHOLE		
MOU	MEMORANDUM OF UNDERSTADING		
MSB	MOP SERVICE BASIN		
MV	MEDICAL VACUUM		

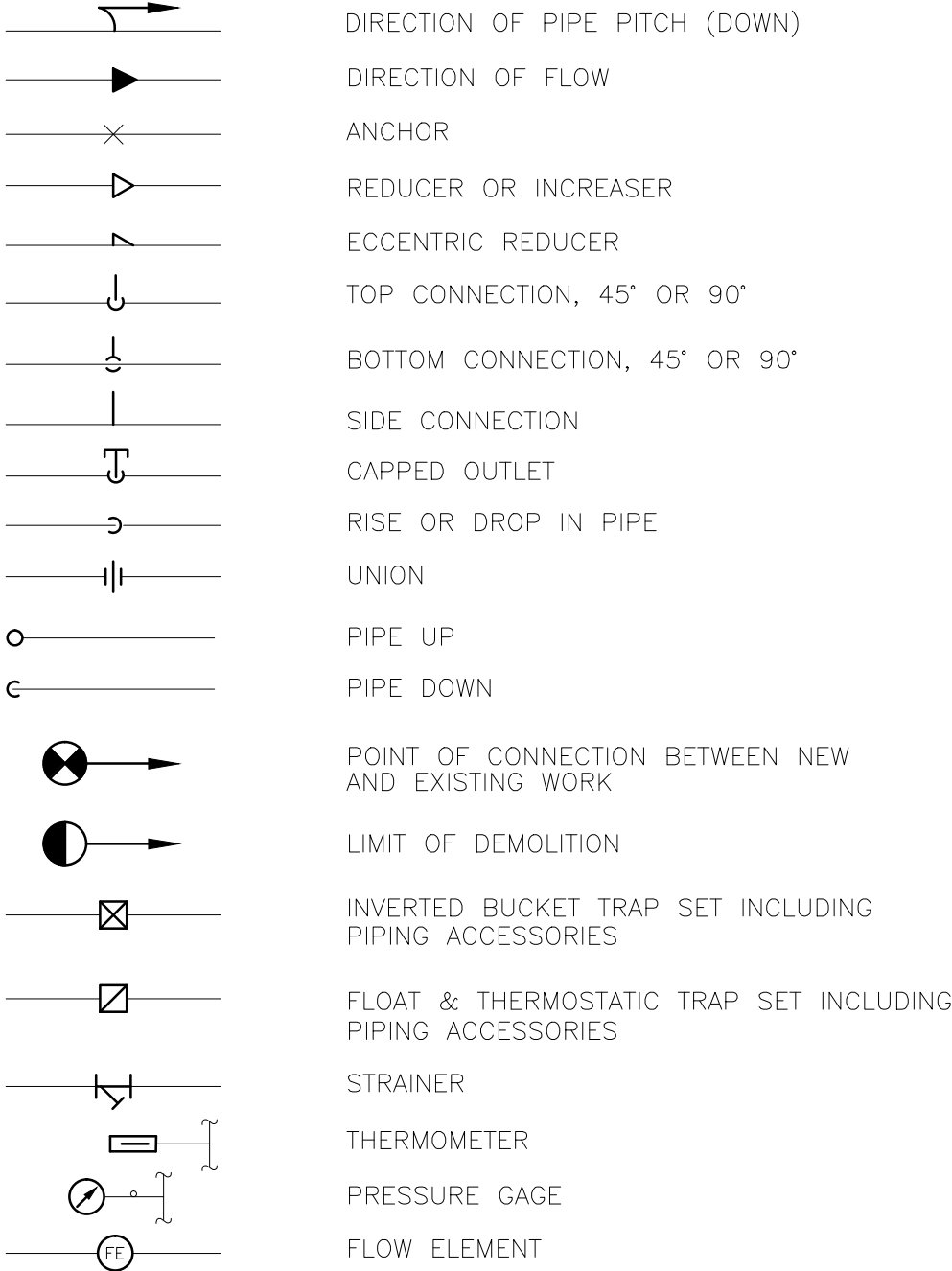
DRAWING SYMBOLS



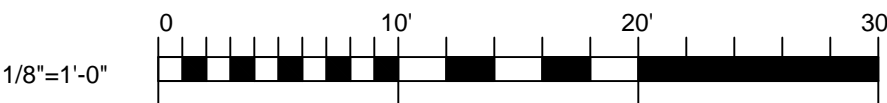
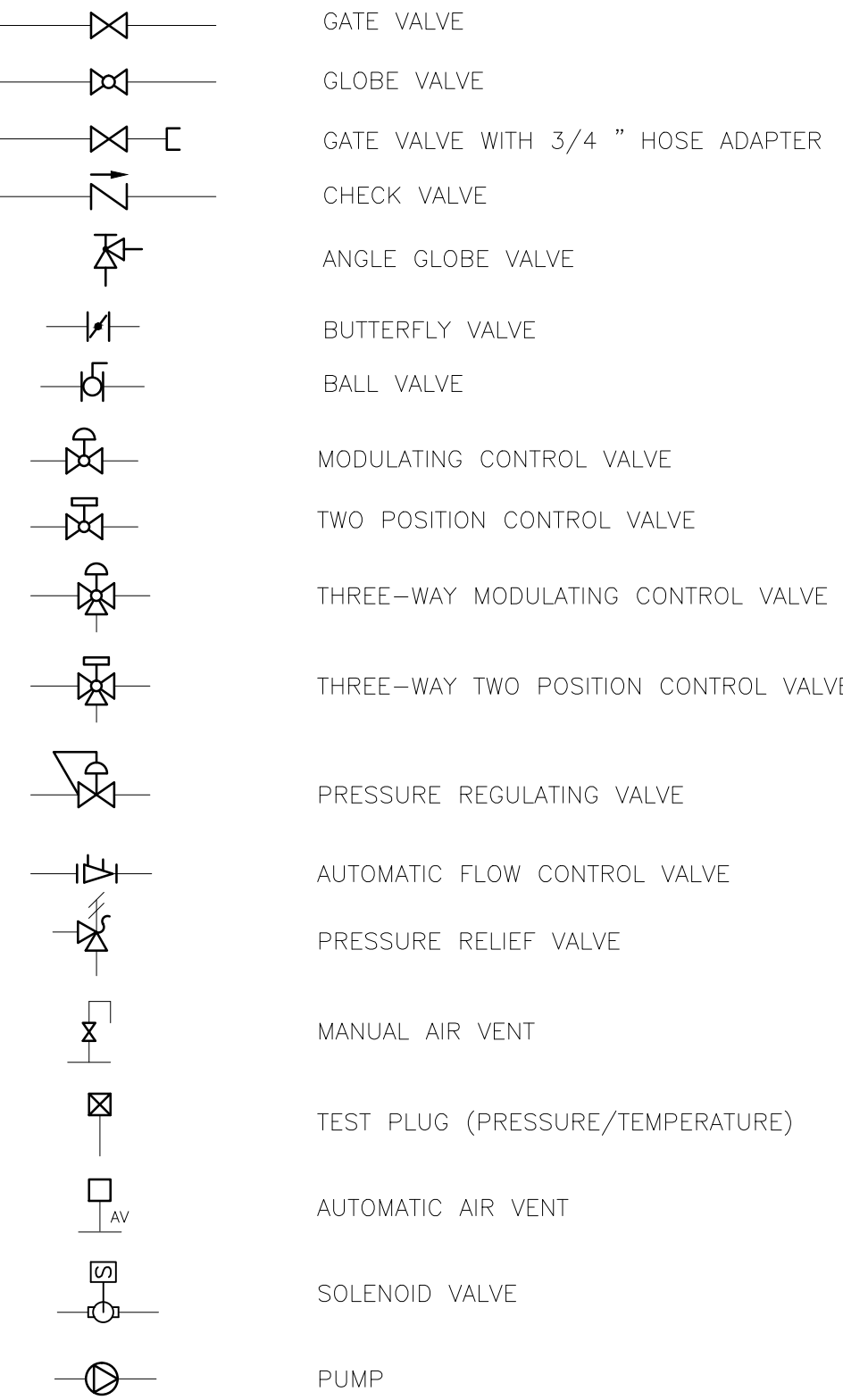
PLUMBING PIPING SYMBOLS



GENERAL PLUMBING SYMBOLS



PLUMBING VALVE SYMBOLS



100% CONSTRUCTION DOCUMENTS

				ENGINEERS/ARCHITECT:		Professional Stamp/Seal	Drawing Title PLUMBING SYMBOLS AND ABBREVIATIONS		Project Title COATESVILLE - VA MEDICAL CENTER A/E INSTALL EMERGENCY GENERATOR	Date 9/23/11	VA
				 Apogee Consulting Group, PA Raleigh, NC Indianapolis, IN Atlanta, GA Columbia, MD www.acgp-pa.com Apogee Project # 2010 228		 WALDON STUDIO ARCHITECTS & PLANNERS, PC 6025 Woodside Court, Suite 310 Columbia, Maryland 21046 Tel: 410.290.9680 Fax: 410.290.5777 www.waldonstudio.com	Drawn DJR/NAC		Building Number ---	DRAWING No. P-001	
							Checked JMB/JDC		Location COATESVILLE, PENNSYLVANIA	Dwg. 1 Of 4	
Revisions											