

one foot = one foot
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one sixteenth inch = one foot

PLUMBING ABBREVIATIONS

A/E	ARCHITECT / ENGINEER	EL	ELEVATION
AD	AREA DRAIN	EMCS	ENERGY MONOSERRAT AND CENTRAL SYSTEM
AFT	ABOVE FINISH GRADE	EPA	ENVIRONMENTAL PROTECTION
AG	AIR GAP	EPACT	ENERGY POLICY ACT
AP	ACCESS PANEL	ESC	ESCUTCHION
AS	AUTOMATIC SPRINKLER	ESH	EMERGENCY SHOWER
ASD	ADJUSTABLE SPEED DRIVES	ET	EXPANSION TANK
ASD	AUTOMATIC SPRINKLER DRAIN	EWC	ELECTRIC WATER COOLER
ASHRAE	REFRIGERATION, AIR CONDITIONING ENGINEERS	EWC	ELECTRIC WATER COOLER
ASME	AMERICAN SOCIETY MECHANICAL ENGINEERS	EW	ELECTRIC WATER HEATER
ASPE	AMERICAN SOCIETY PLUMBING ENGINEERS	EWS	EYE WASH STATION
ASR	AUTOMATIC SPRINKLER RISER	EX	EXISTING
AV	ACID VENT		
AW	ACID WASTE		
BFP	REDUCED PRESSURE BACKFLOW PREVENTER	F	FAHRENHEIT
BHP	BREAK HORSEPOWER	FCO	FLOOR CLEANOUT
BSP	BLACK STEEL PIPE	FD	FLOOR DRAIN
BT	BATHTUB	FDC	FIRE DEPARTMENT (HOSE) CONNECTION
BTU	BRITISH THERMAL UNIT	FM	FLOW METER
BTUH	BRITISH THERMAL UNIT PER HOUR	FOP	FUEL OIL PUMP
		FOR	FUEL OIL RETURN
C	CELSIUS	FOS	FUEL OIL SUPPLY
CGA	COMPRESSED GAS ASSOCIATION	FOV	FUEL OIL VENT
CI	CAST IRON	FS	FLOOR SINK
CO	CLEANOUT	FS	FLOW SWITCH
CS	CLINICAL SINK	FU	FIXTURE UNITS
CV	CONTROL VALVE		
DOW	DOMESTIC COLD WATER		
DHW	DOMESTIC HOT WATER		
DHWR	DOMESTIC HOT WATER RETURN		
DHWR	DOMESTIC WATER RETURN		
DHWS	DOMESTIC HOT WATER SUPPLY		
DI	DEIONIZED WATER		
DN	DOWN		
DOE	DEPARTMENT OF ENERGY		
DS	DOWNSPOUT		
DW	DISHWASHER		
DWG	DRAWING		
DWH	DOMESTIC WATER HEATER		
DWR	DRINKING WATER RETURN		
DWS	DRINKING WATER SUPPLY		
DWV	DRAIN WASTE VENT		

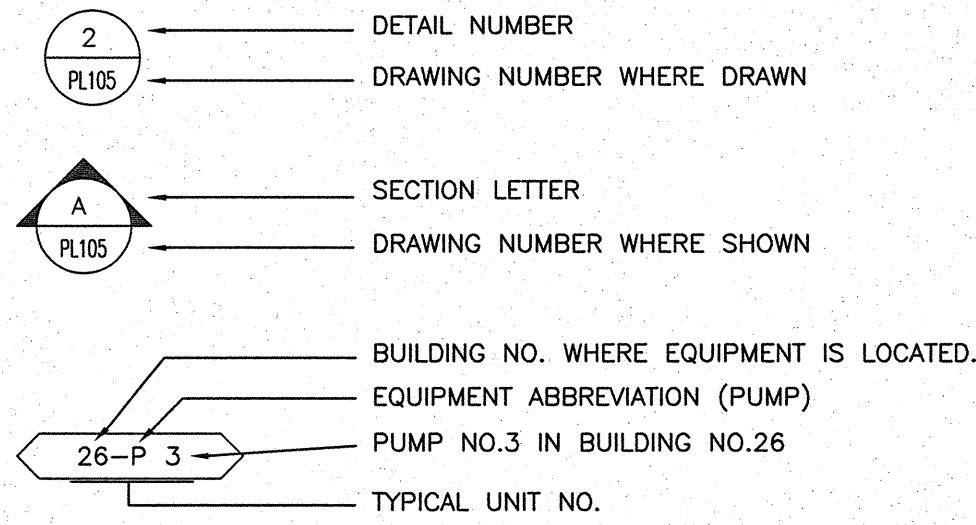
PLUMBING ABBREVIATIONS

GAL	GALLON	M	METER
GCO	GRADE CLEANOUTS	MA	MEDICAL AIR
GPD	GALLONS PER DAY	MAY	MANUAL AIR VENT
GPH	GALLONS PER HOUR	MBH	1000 BTUH
GPM	GALLONS PER MINUTE	MEQ	MEDICAL EQUIPMENT
GPR	GAS PRESSURE REGULATOR	MM	MANHOLE
GRT	GAS REGULATOR STATION	MOU	MEMORANDUM OF UNDERSTANDING
GT	GREASE TRAP	MSB	MOP SERVICE BASIN
GVTR	GAS VENT THROUGH ROOF	MV	MEDICAL VACUUM
GWH	GAS FIRED WATER HEATER		
H&CW	HOT AND COLD WATER	N2	NITROGEN
HB	HOSE BIBB	N2O	NITROUS OXIDE
HD	HUB DRAIN	NC	NORMALLY CLOSED
HEX	HEAT EXCHANGER	NG	NATURAL GAS
HP	HORSEPOWER	NIC	NOT IN CONTRACT
HS	HAND SINK	NO	NORMALLY OPEN
HST	HOT WATER STORAGE TANK (DOMESTIC)	NOM	NOMINAL
HWB	HOT WATER BOILER	NPW	NON POTABLE WATER
HWCP	HOT WATER CIRCULATING PUMP	NTC	NOT TO SCALE
HWP	HOT WATER PUMP		
HYD	HYDRANT		
ICW	INDUSTRIAL COLD WATER	O2	OXYGEN
INV	INVERT	OC	ON CENTER
IPC	INTERNATIONAL PLUMBING CODE	OD	OUTSIDE DIAMETER
IRW	IRRIGATION WATER	OFD	OVERFLOW DRAIN
IW	INDIRECT WASTE	OR	OPERATING ROOM
IWH	INSTANTANEOUS WATER HEATER	OVFL	OVERFLOW
IWR	INDUSTRIAL WATER RETURN		
IWS	INDUSTRIAL WATER SUPPLY		
KW	KILOWATT		
KWH	KILOWATT-HOUR		
L/S	LITER PER SECOND		
LA	LABORATORY AIR		
LAV	LAVATORY		
LBS/HR	POUNDS PER HOUR		
LCW	LABORATORY COLD WATER		
LHW	LABORATORY HOT WATER		
LNG	LIQUID NATURAL GAS		
LOX	LIQUID OXYGEN		
LV	LABORATORY VACUUM		
LW	LOW WATER		

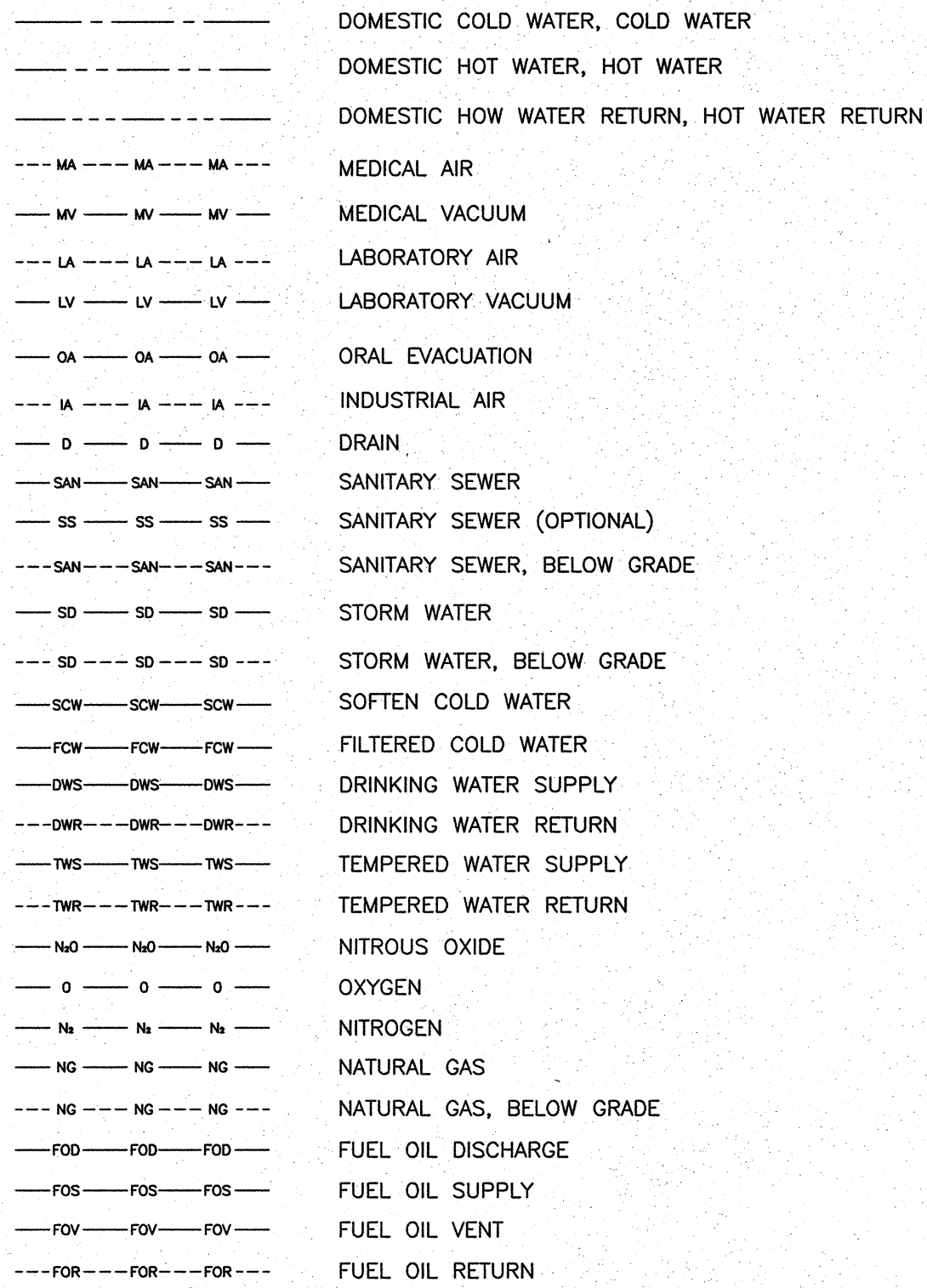
PLUMBING ABBREVIATIONS

PA	PASCAL	V	VENT
PD	PRESSURE DROP OR DIFFERENCE	VAC	VACUUM
PDI	PLUMBING AND DRAINAGE INSTITUTE	VB	VACUUM BREAKER
PG	PRESSURE GAGE	VCO	VACUUM CLEANER OUTLET
PP	PLUMBING PUMP	VP	VACUUM PUMP
PPM	PARTS PER MILLION	VST	VENT STACK
PRS	PRESSURE REDUCING VALVE	VTR	VENT THROUGH ROOF
PRV	PRESSURE REDUCING VALVE		
PSI	POUNDS PER SQUARE INCH	W	WASTE
PSIA	POUNDS PER SQUARE INCH ATMOSPHERE	WC	WATER CLOSET
PSIG	POUNDS PER SQUARE INCH GAUGE	WCO	WALL CLEANOUT
PTRV	PRESSURE TEMPERATURE RELIEF VALVE	WG	WATER GAGE
PW	POTABLE WATER	WH	WALL HYDRANT
		WH	WATER HEATER
RD	ROOF DRAIN	WHA	WATER HAMMER ARRESTER
ROL	ROOF LEADER	WL	WATER LINE
RO	REVERSE OSMOSIS WATER	WM	WATER METER
RWL	RAIN WATER LEADER	WPD	WATER PRESSURE DROP
		WS	WASTE STACK
		YCO	YARD CLEANOUT
		YH	YARD HYDRANT

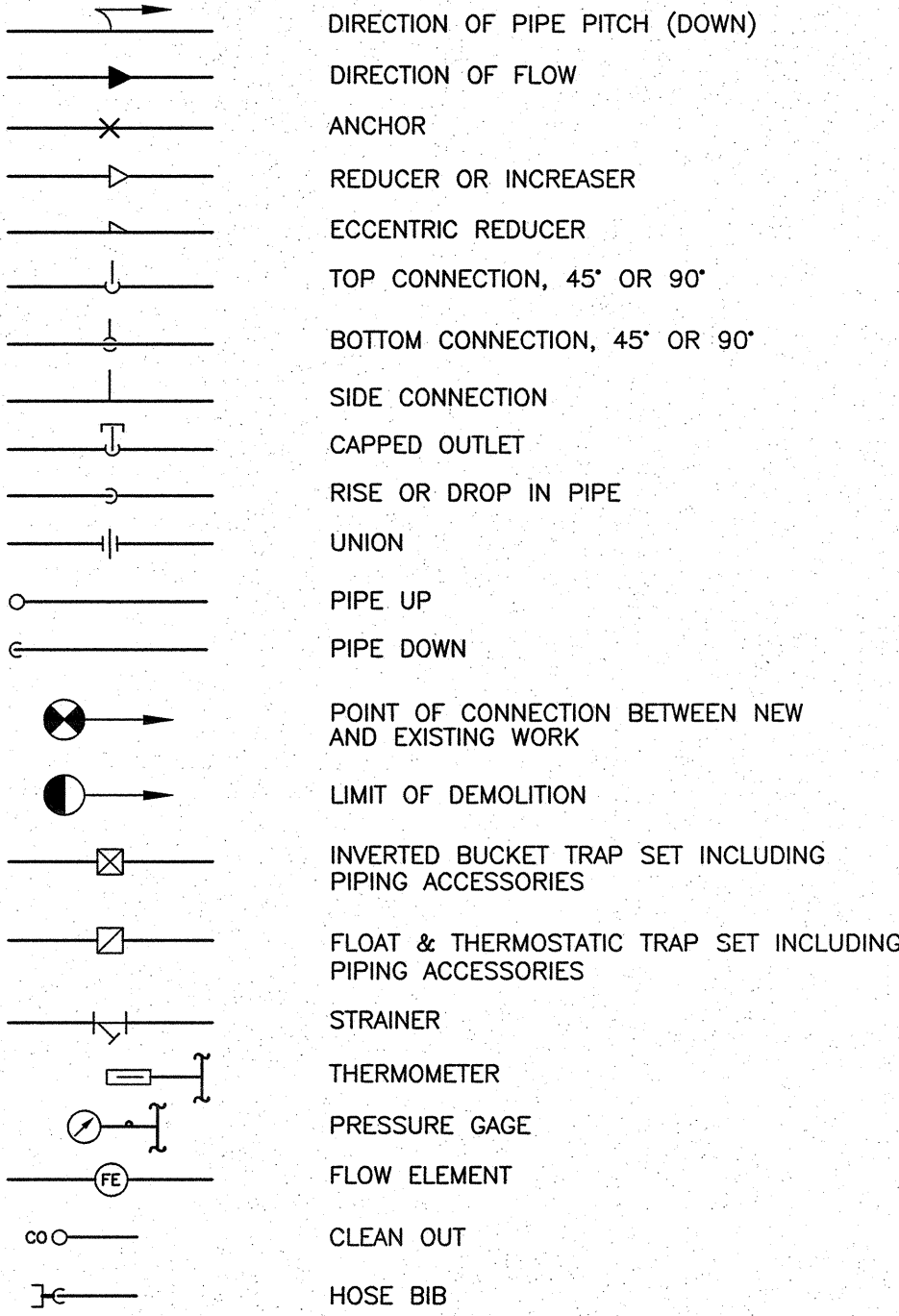
DRAWING SYMBOLS



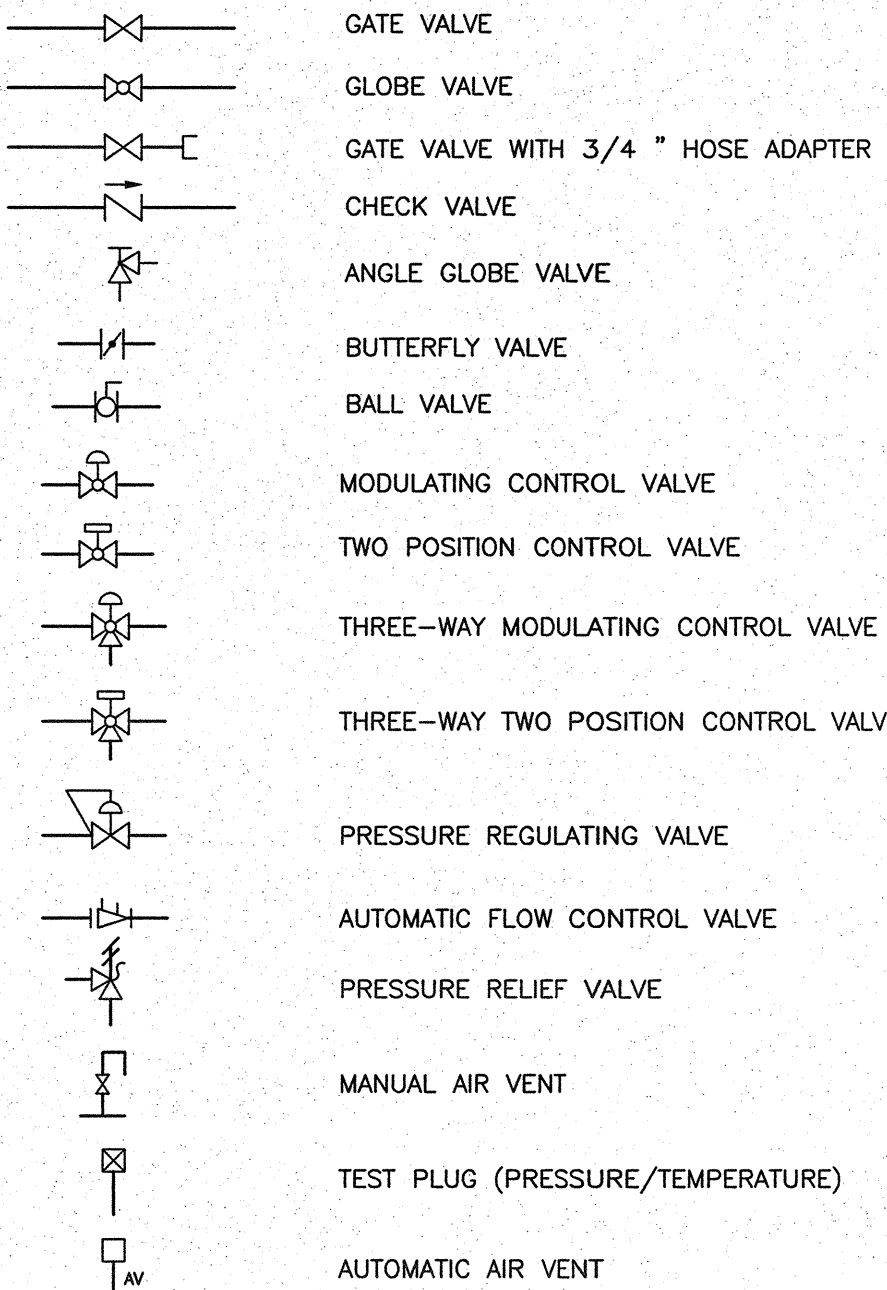
PLUMBING PIPING SYMBOLS



GENERAL PLUMBING SYMBOLS



PLUMBING VALVE SYMBOLS



1 PLUMBING SYMBOLS, NOTES AND ABBREVIATIONS

SCALE: NTS

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Drawing Title
PLUMBING SYMBOLS, NOTES AND ABBREVIATIONS

Approved: Project Director

Project Title
**BUILDING 24
SEISMIC CORRECTION
AND ADDITION**

Location
VAMC FRESNO, CA

Date
January 31 2012

Checked
K.K.

Drawn
DN

Project Number
570-215

Building Number
24

Drawing Number

PP001
Dwg 103 of 180

Office of
Construction
and Facilities
Management

