



PLUMBING ABBREVIATIONS

A/E	ARCHITECT / ENGINEER	L/S	LITER PER SECOND
AD	AREA DRAIN	LA	LABORATORY AIR
AF	ABOVE FINISH FLOOR	LA/V	LAVATORY
AG	ABOVE FINISH GRADE	LES/HR	POUNDS PER HOUR
AGP	AIR GAP	LCW	LABORATORY COLD WATER
AP	ACCESS PANEL	LHW	LABORATORY HOT WATER
AS	AUTOMATIC SPRINKLER	LNG	LIQUID NATURAL GAS
ASD	ADJUSTABLE SPEED DRIVES	LOX	LIQUID OXYGEN
ASRAE	AUTOMATIC SPRINKLER DRAIN	LW	LABORATORY VACUUM LOW WATER
	AMERICAN SOCIETY HEATING, REFRIGERATION, AIR CONDITIONING ENGINEERS SOCIETY MECHANICAL ENGINEERS	M	METER
ASME	AMERICAN SOCIETY MECHANICAL ENGINEERS	MA	MECHANICAL AIR
ASPE	AMERICAN SOCIETY PLUMBING ENGINEERS	MAY	MANUAL AIR VENT
ASR	AUTOMATIC SPRINKLER RISER	MBH	1000 BTUH
AV	ACID VENT	MED	MEDICAL
AW	ACID WASTE	MER	MECHANICAL EQUIPMENT ROOM
BFP	REDUCED PRESSURE BACKFLOW PREVENTER	MH	MANHOLE
BHP	BREAK HORSEPOWER	MOU	MEMORANDUM OF UNDERSTANDING
BSP	BLACK STEEL PIPE	MSB	MAN SERVICE BASIN
BT	BATHTUB	MV	MEDICAL VACUUM
BTU	BRITISH THERMAL UNIT	N2	NITROGEN
BTUH	BRITISH THERMAL UNIT PER HOUR	N2O	NITROUS OXIDE
C	CELSIUS	NC	NORMALLY CLOSED
CGA	COMPRESSED GAS ASSOCIATION	NG	NATURAL GAS
CI	CAST IRON	NI	NICKEL
CO	CLEANOUT	NO	NOMINALLY OPEN
CS	CLINICAL SINK	NOM	NOMINAL
CV	CONTROL VALVE	NPW	NON POTABLE WATER
NCV	CLINICAL SINK	NTS	NOT TO SCALE
DCW	DOMESTIC COLD WATER	O2	OXYGEN
DHW	DOMESTIC HOT WATER	OD	OUTSIDE DIAMETER
DHWR	DOMESTIC HOT WATER RETURN	OFD	OVERFLOW DRAIN
DHWS	DOMESTIC HOT WATER SUPPLY	OR	OPERATING ROOM
DI	DEIONIZED WATER	O/VL	OVERFLOW
DNE	DEPARTMENT OF ENERGY	PA	PASCAL
DO	DRAIN	PD	PRESSURE DROP OR DIFFERENCE
DS	DRAWN	PL	PLUMBING AND DRAINAGE INSTITUTE
DWG	DRAWING	PG	PRESSURE GAGE
DWR	DRINKING WATER HEATER	PP	PLUMBING PUMP
DWS	DRINKING WATER RETURN	PPM	PARTS PER MILLION
DWV	DRAIN WASTE VENT	PRS	PRESSURE REDUCING VALVE
EL	ELEVATION	PSI	POUNDS PER SQUARE INCH
EMCS	ENERGY MONITORING AND CENTRAL SYSTEM ENVIRONMENTAL PROTECTION AGENCY ENERGY POLICY ACT	PSA	POUNDS PER SQUARE INCH ATMOSPHERE
EPA	ENVIRONMENTAL PROTECTION AGENCY	PSIG	POUNDS PER SQUARE INCH GAGE
EPACT	ENERGY POLICY ACT	PTRV	PRESSURE TEMPERATURE RELIEF VALVE
ESC	ESCUTOCHON	PW	POTABLE WATER
ESH	EMERGENCY SHOWER	RD	ROOF DRAIN
ET	EXPANSION TANK	RDL	ROOF LEADER
EMC	ELECTRIC WATER COOLER	RL	ROOF LEADER
EWS	ELECTRIC WATER HEATER	R/L	ROOF LEADER
EX	EXHAUST STATION	RML	RAN WATER LEADER
EX	EXHAUST	SAW	SANITARY SEWER
F	FAHRENHEIT	SAWMA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
FCW	FLOOR CLEANOUT	SCM	STANDARD COLD WATER
FD	FLOOR DRAIN	SCM	STANDARD COLD WATER
FDG	FLOOR DRAIN GROUND CONNECTION	SDMH	STORM DRAIN MANHOLE
FM	FLOW METER	SP	SLUMP PUMP
FOP	FUEL OIL PUMP	SPR	SPRINKLER LINE
FOS	FUEL OIL RETURN	SQT	SQUARE FEET
FOV	FUEL OIL SUPPLY	ST	STAINLESS STEEL
FS	FLOOR SINK	ST	STORAGE TANK
FS	FLOW SWITCH	SW	STORM WATER
FU	FUTURE UNITS	TCV	TEMPERATURE CONTROL VALVE
GAL	GALLON	TD	TEMPERATURE DIFFERENCE
GGO	GRADE CLEANOUT	TDH	TRENCH DRAIN
GPD	GALLONS PER DAY	TEMP	TEMPERATURE
GPM	GALLONS PER HOUR	TMP	TOTAL DYNAMIC HEAD
GPR	GALLONS PER MINUTE	TWV	TEMPERATURE MIXING VALVE
GRS	GAS PRESSURE REGULATOR	TP	TRAP PRIMER
GT	GAS REGULATOR STATION	TS/AT	THERMOSTAT
GVR	GAS VENT THROUGH ROOF	TWR	TEMPERED WATER RETURN
GWH	GAS FRED WATER HEATER	TWS	TEMPERED WATER SUPPLY
H&CW	HOT AND COLD WATER	TPP	TYPICAL
HD	HOSE BIBB	UPC	UNIFORM PLUMBING CODE
HD	HUB DRAIN	V	VENT
HDX	HOT WATER HEATER	VAC	VACUUM
HS	HAND SINK	VAC	VACUUM BREAKER
HST	HOT WATER STORAGE TANK (DOMESTIC)	VCO	VACUUM CLEANER OUTLET
HWB	HOT WATER BOILER	VP	VACUUM PUMP
HWP	HOT WATER CIRCULATING PUMP	VIR	VENT THROUGH ROOF
HTD	HOT WATER PUMP	W	WASTE
ICW	INDUSTRIAL COLD WATER	WC	WATER CLOSET
INV	INVERT	WCO	WALL CLEANOUT
IPC	INTERNATIONAL PLUMBING CODE	WG	WATER GAGE
IRW	IRRIGATION WATER	WH	WALL HYDRANT
IW	INDIRECT WASTE	WH	WATER HEATER
IRW	INSTANTANEOUS WATER HEATER	WHA	WATER HAMMER ARRESTER
IRW	INSTANTANEOUS WATER RETURN	WL	WATER LINE
IWS	INDUSTRIAL WATER SUPPLY	WM	WATER METER
KW	KILOWATT	WPD	WATER PRESSURE DROP
KWHR	KILOWATT-HOUR	YCO	YARD CLEANOUT
		YCO	YARD HYDRANT

GENERAL NOTES

1. THE PLUMBING SYSTEM SHALL CONFORM TO INTERNATIONAL PLUMBING CODE 2006.
2. FOR HOT WATER HEATING AND SUPPLY, PROVIDE A MAXIMUM TEMP. OF 120 DEG. F AT THE FIXTURE (PER ADA SPECS), UNLESS SPECIFIC APPLIANCES OR EQUIPMENT SPECIFICALLY REQUIRE HIGHER TEMPERATURE.
3. UNLESS OTHERWISE SPECIFIED OR DIRECTED, PROVIDE IN ACCORDANCE WITH ASHRAE HANDBOOK SERIES 1 (APPROPRIATE CHAPTERS), ASHRAE STANDARD 90.1, AND THE ENERGY CONSERVATION REQUIREMENTS OF THE INTERNATIONAL MECHANICAL CODE (IMC) FLAME EQUIPMENT SO THAT IT IS EASILY ACCESSIBLE AND REMOVABLE FOR REPAIR OR REBACEMENT.
4. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES.
5. COORDINATE PLUMBING PIPING WITH AIR CONDITIONING DUCTS, ELECTRICAL CONDUIT AND ALL TRADES.
6. CONTRACTOR SHALL VERIFY DISTANCE TO CONNECTION TO EXISTING UTILITIES PRIOR TO BID.
7. USE PROGRESS OR SILVER SOLDER FOR PLUMBING SUPPLY PIPING, BALL VALVES FOR DOMESTIC WATER TO BE SILVER SOLDER.

PLUMBING PIPING SYMBOLS

DOMESTIC COLD WATER, COLD WATER	DOMESTIC HOT WATER, HOT WATER
DOMESTIC HOW WATER RETURN, HOT WATER RETURN	DOMESTIC HOW WATER RETURN, HOT WATER RETURN
MEDICAL AIR	MEDICAL AIR
MEDICAL VACUUM	MEDICAL VACUUM
LABORATORY AIR	LABORATORY AIR
LABORATORY VACUUM	LABORATORY VACUUM
ORAL EVACUATION	ORAL EVACUATION
INDUSTRIAL AIR	INDUSTRIAL AIR
DRAIN	DRAIN
SANITARY SEWER	SANITARY SEWER
SANITARY SEWER, BELOW GRADE	SANITARY SEWER, BELOW GRADE
SANITARY SEWER VENT	SANITARY SEWER VENT
STORM WATER	STORM WATER
STORM WATER, BELOW GRADE	STORM WATER, BELOW GRADE
SOFTEN COLD WATER	SOFTEN COLD WATER
FILTERED COLD WATER	FILTERED COLD WATER
DRINKING WATER SUPPLY	DRINKING WATER SUPPLY
TEMPERED WATER SUPPLY	TEMPERED WATER SUPPLY
NITROUS OXIDE	NITROUS OXIDE
OXYGEN	OXYGEN
NATURAL GAS	NATURAL GAS
FUEL OIL DISCHARGE	FUEL OIL DISCHARGE
FUEL OIL SUPPLY	FUEL OIL SUPPLY
FUEL OIL VENT	FUEL OIL VENT
FUEL OIL RETURN	FUEL OIL RETURN

GENERAL PLUMBING SYMBOLS

DIRECTION OF PIPE PITCH (DOWN)	DIRECTION OF PIPE PITCH (DOWN)
DIRECTION OF FLOW	DIRECTION OF FLOW
ANCHOR	ANCHOR
REDUCER OR INCREASER	REDUCER OR INCREASER
ECCENTRIC REDUCER	ECCENTRIC REDUCER
TOP CONNECTION, 45° OR 90°	TOP CONNECTION, 45° OR 90°
BOTTOM CONNECTION, 45° OR 90°	BOTTOM CONNECTION, 45° OR 90°
SIDE CONNECTION	SIDE CONNECTION
CAPPED OUTLET	CAPPED OUTLET
RISE OR DROP IN PIPE	RISE OR DROP IN PIPE
UNION	UNION
PIPE UP	PIPE UP
PIPE DOWN	PIPE DOWN
POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
LIMIT OF DEMOLITION	LIMIT OF DEMOLITION
INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES	INVERTED BUCKET TRAP SET INCLUDING PIPING ACCESSORIES
FLOAT & THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES	FLOAT & THERMOSTATIC TRAP SET INCLUDING PIPING ACCESSORIES
STRAINER	STRAINER
THERMOMETER	THERMOMETER
PRESSURE GAGE	PRESSURE GAGE
FLOW ELEMENT	FLOW ELEMENT
CLEAN OUT	CLEAN OUT
HOSE BIB	HOSE BIB
FLOOR DRAIN W/ TRAP PRIMER	FLOOR DRAIN W/ TRAP PRIMER

PLUMBING VALVE SYMBOLS

GATE VALVE	GATE VALVE
GLOBE VALVE	GLOBE VALVE
GATE VALVE WITH 3/4 " HOSE ADAPTER	GATE VALVE WITH 3/4 " HOSE ADAPTER
CHECK VALVE	CHECK VALVE
ANGLE GLOBE VALVE	ANGLE GLOBE VALVE
BUTTERFLY VALVE	BUTTERFLY VALVE
BALL VALVE	BALL VALVE
MODULATING CONTROL VALVE	MODULATING CONTROL VALVE
TWO POSITION CONTROL VALVE	TWO POSITION CONTROL VALVE
THREE-WAY MODULATING CONTROL VALVE	THREE-WAY MODULATING CONTROL VALVE
THREE-WAY TWO POSITION CONTROL VALVE	THREE-WAY TWO POSITION CONTROL VALVE
PRESSURE REGULATING VALVE	PRESSURE REGULATING VALVE
AUTOMATIC FLOW CONTROL VALVE	AUTOMATIC FLOW CONTROL VALVE
PRESSURE RELIEF VALVE	PRESSURE RELIEF VALVE
MANUAL AIR VENT	MANUAL AIR VENT
TEST PLUG (PRESSURE/TEMPERATURE)	TEST PLUG (PRESSURE/TEMPERATURE)
AUTOMATIC AIR VENT	AUTOMATIC AIR VENT

FINAL SUBMISSION

Project Title PLUMBING LEGEND, ABBREVIATIONS AND SYMBOLS		Project Title PANAMA CITY JOINT OUTPATIENT CLINIC VA GULF COAST HEALTH CARE		Project Number 520-326		Office of Construction and Facilities Management	
Approved Project Designer		Location PANAMA CITY, FLORIDA		Building Number -		Drawing Number PL001	
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