

## PLUMBING SYMBOLS LEGEND

ANNOTATION	EQUIPMENT & SPECIALTIES	PIPING & VALVES
SYMBOL PER ABBREVIATION LIST	TEMPERATURE SENSOR	PIPE TRANSITION
EQUIPMENT SEQUENCE NUMBER	FLOOR DRAIN	ELBOW DOWN
KEY NOTE	INSERTION TEMPERATURE SENSOR (AQUASTAT)	PIPE TEE UP OR UP AND DOWN
POINT OF ELEVATION	THERMOMETER	ELBOW UP OR UP AND DOWN
TEMPERATURE MAINTENANCE ZONE TERMINATION POINT	WATER HAMMER ARRESTOR	PIPE TEE DOWN
TEMPERATURE MAINTENANCE ZONE START POINT AND POWER JUNCTION BOX	WATER OR GAS METER	STRAINER
	REDUCED PRESSURE ZONE BACKFLOW PREVENTOR	BALL VALVE
	AIR GAP FITTING	BUTTERFLY VALVE
<b>FIXTURES</b>	PUMP	GATE VALVE
WALL HUNG URINAL WITH FLUSH VALVE	AIR VENT, AUTOMATIC	CLEANOUT
COUNTERTOP LAVATORY	AIR VENT, MANUAL	WALL CLEANOUT
WALL HUNG LAVATORY	HOSE BIBB OR HYDRANT	FLOOR CLEANOUT
WALL HUNG WATER CLOSET WITH FLUSH VALVE	TRAP PRIMER ASSEMBLY	PRESSURE GAUGE AND COCK
MOP RECEPTOR	THERMOSTATIC MIXING VALVE	UNION
DUAL HEIGHT ELECTRIC WATER COOLER, WALL MOUNTED	VACUUM RELIEF VALVE	CHECK VALVE, SWING
	WATER HAMMER ARRESTOR	DIRECTION OF FLOW
		P-TRAP
		PRESSURE RELIEF VALVE
		PRESSURE REDUCING/REGULATING VALVE
		CAP

## PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	FCO	FLOOR CLEANOUT	MR	MOP RECEPTOR	TEMP	TEMPERATURE
ADA	AMERICANS WITH DISABILITIES ACT	FD	FLOOR DRAIN	MTL	METAL	T	TEMPERATURE
AHU	AIR HANDLER UNIT	FF	FINISH FLOOR	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	TMV	TEMPERATURE
BFP	BACKFLOW PREVENTER	FLR	FLOOR	NFWH	NON-FREEZE WALL HYDRANT	TP	TEMPERATURE
BP	PACKAGED BOOSTER PUMP	FS	FLOOR SINK	NO	NUMBER, NORMALLY OPEN	TPA	TEMPERATURE
CD	CONDENSATE DRAIN	FT	FOOT/FEET	NPT	NATIONAL PIPE THREAD	TPV	TEMPERATURE
CL	CENTERLINE	G	GAS	OD	OUTSIDE DIAMETER, OVER FLOW DRAIN	TW	TEMPERED WATER
CO	CLEANOUT	GPH	GALLONS PER HOUR	ODN	OVERFLOW DRAIN NOZZLE	TYP	TYPICAL
CONN	CONNECTION	GPM	GALLONS PER MINUTE	P	PUMP, PITCH	U	URINAL
COND	CONDENSATE	HB	HOSE BIBB	PDI	PLUMBING DRAINAGE INSTITUTE	UL	UNDERWRITER'S LABORATORIES
CW	COLD WATER	HP	HORSEPOWER	PEX	CROSS-LINKED POLYETHYLENE	V	VENT
Ø, DIA	DIAMETER	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	PRESS	PRESSURE	VTR	VENT TO ROOF
DN	DOWN	HW	HOT WATER	PRV	PRESSURE REDUCING VALVE	W	WASTE
DP	DROP	IOB	ICEMAKER OUTLET BOX	PSI	POUNDS PER SQUARE INCH	W&T	WASTE AND TRAP
DWG	DRAWING	INV	INVERT	PSIG	POUNDS PER SQUARE INCH GAGE	WC	WATER COLUMN, WATER CLOSET
DWH	DUAL WALL HYDRANT	IW	INDIRECT WASTE	PW	PUMPED WASTE	WCO	WALL CLEANOUT
EL	ELEVATION	JAN	JANITOR (SINK)	RD	ROOF DRAIN	WD	WOOD
ELEC	ELECTRICAL	KW	KILOWATT, KITCHEN WASTE	RPM	REVOLUTIONS PER MINUTE	WF	WASH FOUNTAIN
ELEV	ELEVATOR	L	LAVATORY	RPZ	REDUCED PRESSURE ZONE	WH	WALL HYDRANT, WATER HEATER
EWC	ELECTRIC WATER COOLER	LF	LINEAR FEET	S	SINK, SANITARY	WHA	WATER HAMMER ARRESTOR
EM	EMERGENCY FIXTURE	LP, LPG	LIQUEFIED PETROLEUM GAS	SAN	SANITARY	WOB	WASHER OUTLET BOX
EMV	EMERGENCY FIXTURE	MAX	MAXIMUM	SF	SQUARE FOOT	WPD	WATER PRESSURE DROP
EXP	EXPANSION TANK	MECH	MECHANICAL	SH	SHOWER		
°F	DEGREES FAHRENHEIT	MIN	MINIMUM	SP	SUMP PUMP, SPRINKLER		
				ST	STORM DRAIN		
				STL	STEEL		

### PLUMBING LINE TYPE LEGEND

—————	PROVIDE ITEMS
— S ———	SOIL PIPE
— W ———	WASTE PIPE
— SAN ———	SANITARY SEWER ABOVE FLOOR
— SAN ———	SANITARY SEWER BELOW FLOOR OR GRADE
— ST ———	STORM DRAIN ABOVE FLOOR
— ST ———	STORM DRAIN BELOW FLOOR OR GRADE
— OD ———	STORM DRAINAGE OVERFLOW DRAIN LINE
— CD ———	CONDENSATE DRAIN ABOVE FLOOR OR GRADE
— VENT ———	VENT
— TP ———	TRAP PRIMER LINE
— DOMESTIC COLD WATER ———	DOMESTIC COLD WATER
— DOMESTIC HOT WATER (110°F) ———	DOMESTIC HOT WATER (110°F)
— PW ———	PUMPED WASTE
— G ———	NATURAL GAS
— CONTROL WIRING ———	CONTROL WIRING
— TW ———	TEMPERED WATER
— IW ———	INDIRECT WASTE
— KW ———	KITCHEN WASTE
— R ———	RADON

### GENERAL PLUMBING SYSTEM NOTES

- INSTALL SANITARY DRAINAGE WITH A PITCH OF 1/4 INCH PER FOOT FOR BUILDING SANITARY PIPING 3 INCHES AND SMALLER AND A PITCH OF 1/8 INCH PER FOOT FOR BUILDING SANITARY PIPING 4 INCHES AND LARGER.
- FOR PIPE SIZES NOT SHOWN ON PLANS REFER TO APPROPRIATE PART PLANS AND RISER DIAGRAMS.
- PIPING IS SHOWN DIAGRAMMATICALLY, EXACT LOCATION SHALL BE DETERMINED IN THE FIELD. COORDINATE IN FIELD WITH FIRE PROTECTION AND ALARM, MECHANICAL PIPING AND DUCTWORK, AND ELECTRICAL TRADES.
- PIPING SHALL BE INSTALLED CONCEALED ABOVE CEILINGS, IN WALLS AND IN CHASES, UNLESS OTHERWISE NOTED. PIPING SHALL BE INSTALLED PARALLEL TO BUILDING LINES.
- PROVIDE DRAINS AT DOMESTIC WATER PIPING LOW POINTS AND PITCH PIPING TO LOW POINTS DRAINS.
- PIPING SHALL BE SUPPORTED FROM BUILDING STRUCTURE. PIPING SHALL BE SUPPORTED FROM TOP CHORD OF JOISTS. NO STRUCTURAL MEMBERS SHALL BE CUT.
- INSTALL WATER PIPE ON THE WARM SIDE OF BUILDING INSULATION IN EXTERIOR WALLS. REFER TO ARCHITECTURAL WALL SECTIONS.
- PROVIDE WATER HAMMER ARRESTORS (WHA) AS SHOWN ON PLANS TO AVOID WATER HAMMER. SIZES INDICATED ON PLANS CONFORM TO THE PLUMBING AND DRAINAGE INSTITUTE (PDI) STANDARDS.
- PROVIDE ACCESSIBLE CLEANOUTS AT THE BASE OF STACKS, AT HORIZONTAL CHANGES OF DIRECTION GREATER THAN 45° AND WHERE SHOWN ON DRAWINGS.
- PIPING DROPS TO FIXTURES SHALL BE ANCHORED SOLID TO WALL WITH STEEL SUPPORT BRACKET WITH ADJUSTABLE CLIP.
- PROVIDE STEEL PIPE SLEEVES AT SLAB PENETRATIONS BOTH ON GRADE AND ABOVE GRADE, AND AT MASONRY WALL AND PARTITION PENETRATIONS. OPENINGS SHALL BE SEALED SMOKE AND WATER TIGHT. REFER TO DETAILS ON SHEET P-501.
- HOSE END VALVES SHALL BE PROVIDED WITH HOSE END VACUUM BREAKERS.
- COORDINATE LOCATION OF PIPING WITH WORK OF OTHER TRADES. PERFORM CUTTING WORK ASSOCIATED WITH PLUMBING SYSTEMS. DO NOT CUT STRUCTURAL MEMBERS WITHOUT ENGINEERS APPROVAL.
- PLUMBING SHALL BE DONE IN ACCORDANCE WITH THE MAINE STATE INTERNAL PLUMBING CODE - CURRENT EDITION AND THE INTERNATIONAL ENERGY AND CONSERVATION CODE (IECC) - CURRENT EDITION.
- INSTALL NATURAL GAS PIPING IN ACCORDANCE WITH NFPA 54 AND THE INTERNATIONAL FUEL GAS CODE.

		<b>STATE OF MAINE</b> <b>PUBLIC SCHOOL PROJECT</b> TITLE: PORTLAND PUBLIC SCHOOLS NEW FRED P. HALL ELEMENTARY SCHOOL LOCATION: 23 ORONO ROAD, PORTLAND, ME TITLE THIS DWG: PLUMBING LEGENDS, ABBREVIATIONS, GENERAL NOTES AND SCHEDULES
DRAWN BY: RDA	CHECK BY: MSA	
NO. DATE	DESCRIPTION	BY NO.
	REVISIONS	DATE 03/17/17
		DRAWING NO. P-001 SHEET NO. 255 OF 312