PIPING SYMBOLS

- UNION
- FLANGE
- PIPE ANCHOR
- PIPE GUIDE OR SLEEVES
- PIPE ELBOW TURNED DOWN
- PIPE ELBOW TURNED UP
- PIPING TEE-DOWN
- PIPING TEE-UP
- PIPE RISER
- FCO FLOOR CLEAN OUT
- CO CLEAN OUT
- WCO WALL CLEAN OUT
- PIPE PITCHES DOWN
- GENERIC VALVE, SEE SPECIFICATIONS FOR TYPE
- GATE VALVE
- BALL VALVE
- BUTTERFLY VALVE (MANUAL)
- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- BALANCING VALVE (CIRCUIT SETTER)
- CHECK VALVE
- PLUG VALVE
- GLOBE VALVE
- NEEDLE VALVE
- BACK FLOW PREVENTER
- SOLENOID VALVE
- PRESSURE REDUCING OR REGULATING VALVE
- PRESSURE RELIEF VALVE
- STRAINER
- STRAINER W/BLOWDOWN
- PS PRESSURE SWITCH
- FS FLOW SWITCH
- PG PRESSURE GAUGE AND COCK
- THERMOMETER AND WELL
- TEMPERATURE & PRESSURE TAP (PETE'S PLUG)
- HOSE END DRAIN VALVE WITH CAP
- ORIFICE FLOWMETER
- FLEXIBLE PIPE CONNECTOR
- EXPANSION JOINT
- CONCENTRIC REDUCER/INCREASER
- ECCENTRIC REDUCER/INCREASER
- HB HOSE BIBB
- WH WALL HYDRANT
- DIRECTION OF FLOW
- FIRE DEPARTMENT CONNECTION
- PUMP
- WATER HAMMER SUPPRESSER
- H HUMIDIFIER
- DP DIFFERENTIAL PRESSURE TRANSMITTER
- SPRINKLER HEAD
- GAS TURRET
- MEDICAL OXYGEN OUTLET
- MEDICAL VACUUM INLET
- MEDICAL AIR OUTLET
- NITROUS OXIDE OUTLET
- PIPE ELBOW TURNED DOWN – VALVE IN VERTICAL
- PIPE ELBOW TURNED UP – VALVE IN VERTICAL
- LIMITS OF DEMOLITION
- CONNECT TO EXISTING

ABBREVIATIONS

AAV	AUTOMATIC AIR VENT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ATC	AUTOMATIC TEMPERATURE CONTROL
AV	AIR VENT
BA	BREATHING COMPRESSED AIR
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
CFF	CAPPED FOR FUTURE
CFH	CUBIC FEET PER HOUR
CLG	CEILING
CO	CLEANOUT
CONT	CONTINUATION
COORD	COORDINATE
CT	COOLING TOWER
CTE	CONNECT TO EXISTING
CU	COPPER
CV	CONTROL VALVE
CW	COLD WATER
CW-P	CITY WATER-PROCESS
DC	DOUBLE CONTAINED
DCO	DANDY CLEANOUT
DDC	DIRECT DIGITAL CONTROL
DIA	DIAMETER
DIC	DOWN IN CHASE
DIW	DOWN IN WALL
DN	DOWN
DS	DOWNSPOUT
DT	DROP AND TRANSITION
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWV	DRAINAGE, WASTE & VENT
ENC	ENCLOSURE
(E)	EXISTING
EXIST.	EXISTING
FBO	FURNISHED BY OWNER
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEANOUT
FD-#	FLOOR DRAIN TAG
FG	FIBERGLASS
FRHB	FREEZE RESISTANT HOSE BIBB
FS	FLOW SWITCH
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
H	HUMIDIFIER
HB	HOSE BIB
HRU	HEAT RECOVERY UNIT
HTR	HEATER
H & V	HEATING AND VENTILATION
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HW	HOT WATER
HX	HEAT EXCHANGER
IN WG	INCHES WATER GAUGE
MAU	MAKE UP AIR UNIT
MAX	MAXIMUM
MBH	1000 BTU/HR.
ME	MECHANICAL ENGINEER
MFR	MANUFACTURER
MIN	MINIMUM
MPV	MULTI-PURPOSE VALVE
MTD	MOUNTED
MUA	MAKE UP AIR
NPW	NON-POTABLE WATER
NTS	NOT TO SCALE
P-#	PLUMBING FIXTURE TAG
PP	POLY-PROPYLENE
PPE	PRE PURCHASED EQUIPMENT
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
(R)	REMOVE
(REL.)	RELOCATED
RD	ROOF DRAIN
RHC	REHEAT COIL
RM	ROOM
RPZ	REDUCED PRESSURE ZONE BFP
RV	RELIEF VALVE
SCV	SELF CONTAINED VALVE
SS	STAINLESS STEEL
TE	TEMPERATURIZED ELEMENT (SENSOR)
TOP	TOP OF PIPE
TTS	TIGHT TO STEEL
TYP	TYPICAL
UIC	UP IN CHASE
UIW	UP IN WALL
UV	UNIT VENTILATOR
VB	VACUUM BREAKER
VTR	VENT THRU ROOF
VCFF	VALVED AND CAPPED FOR FUTURE
VFD	VARIABLE FREQUENCY DRIVE
VOC	VOLATILE ORGANIC COMPOUNDS
W/	WITH
W&T	WASTE AND TRAP
WCO	WALL CLEANOUT
WH	WALL HYDRANT

PIPING SYSTEMS

AV	ACID VENT
AD	ACID DRAIN
AD	ACID DRAIN (BELOW SLAB)
BA	BREATHING AIR
CD	CONDENSATE DRAIN
CDA	COMPRESSED DRY AIR
DB	DISTRIBUTION VALVE BOX
DIS	DEIONIZED WATER SUPPLY
DIR	DEIONIZED WATER RETURN
EKCD	EKC DRAIN
ESEW	EYEWASH
GLY	GLYCOL
GV	GAS VENT
H	HYDROGEN
H2O2	HYDROGEN PEROXIDE
HCV	HOUSE CLEAN VACUUM
IAD	ISOPROPYL ALCOHOL DRAIN
LP	LIQUID PROPANE GAS
HLP	HIGH PRESSURE LIQUID PROPANE GAS
MA	MEDICAL AIR
MV	MEDICAL VACUUM
N2NP	NON-PROCESS NITROGEN
N2	NITROGEN
NG	NATURAL GAS
HNG	HIGH PRESSURE NATURAL GAS
NO2	NITROUS OXIDE
NEG. SOLV.	NEGATIVE SOLVENT DRAIN
NPW	NON POTABLE COLD WATER
O2	OXYGEN
OFA	OIL FREE COMPRESSED AIR
PD	PUMPED DISCHARGE
POS. SOLV.	POSITIVE SOLVENT DRAIN
PW	POTABLE WATER
R	RELIEF LINE
SLD	MIXED SOLVENT DRAIN
SV	SOLVENT
SP	SPRINKLER
VAC	VACUUM
ZB	ZONE VALVE BOX
TEMP	DOMESTIC HOT WATER (TEMP °F)
TEMP	RECIRC. DOMESTIC HOT WATER (TEMP °F)
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
RHW	RECIRCULATED DOMESTIC HOT WATER
S, W or KW	S SANITARY, W WASTE & KW KITCHEN WASTE
S, W or KW	S SANITARY, W WASTE & KW KITCHEN WASTE (EXIST.)
S, W or KW	S SANITARY, W WASTE & KW KITCHEN WASTE (BELOW SLAB)
S, W or KW	S SANITARY, W WASTE & KW KITCHEN WASTE (BELOW SLAB-EXIST.)
SD	SD STORM DRAIN
SD	SD STORM DRAIN (EXIST.)
SD	SD STORM DRAIN (BELOW SLAB)
SD	SD STORM DRAIN (BELOW SLAB-EXIST.)
	V SANITARY VENT
	V SANITARY VENT (EXIST.)
	V SANITARY VENT (BELOW SLAB)
	V SANITARY VENT (BELOW SLAB-EXIST.)

GENERAL NOTE

1. ALL GENERAL NOTES, SYMBOL LISTS, AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL PLUMBING DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION INTO THE DESIGN.

REV.	DESCRIPTION	DATE
1	CONFORMED SET	4-21-15
0	ISSUED FOR CONSTRUCTION	3-3-15

CONFORMED SET
4-21-15

CURRENT ISSUE STATUS:

STATE OF MAINE
CALEB J. MILLIKEN
No. 12274
LICENSED
PROFESSIONAL ENGINEER
4/21/15

SMRT
ARCHITECTURE
ENGINEERING
PLANNING
INTERIOR DESIGN
COMMISSIONING
144 Fore Street/P.O. Box 618
Portland, Maine 04104
tel. (207) 772-3846
fax. (207) 772-1070
www.smrtinc.com

L.L. BEAN
CHESHIRE BUILDING RENOVATIONS
PORTLAND, MAINE

PLUMBING LEGEND AND ABBREVIATIONS

SHEET TITLE:

SCALE:	1/8"=1'-0"	DATE:	3-3-15
PROJECT MANAGER:	JLH	GRAPHIC SCALE:	0" 1"
JOB CAP/DRAWN:	CAH/KPB		
A/E OF RECORD:	CJM	SHEET No.	PL001
SMRT CAD FILE:	PL001-14199		
PROJECT No.	14199-00		

© COPYRIGHT 2013 SMRT INC.