

PIPING SYMBOLS

	UNION		FLOW SWITCH
	FLANGE		VALVE WITH TAMPER SWITCH
	GROOVED COUPLING		PRESSURE GAUGE AND COCK
	PIPE ANCHOR		HOSE END DRAIN VALVE WITH CAP
	PIPE GUIDE OR SLEEVE		ORIFICE FLOWMETER
	PIPE ELBOW TURNED DOWN		FLEXIBLE CONNECTOR
	PIPE ELBOW TURNED UP		EXPANSION JOINT
	PIPING TEE-DOWN		CONCENTRIC REDUCER/INCRASER
	PIPING TEE-UP		ECCENTRIC REDUCER/INCRASER
	PIPE RISER		HOSE BIBB
	FLOOR CLEANOUT		WALL HYDRANT
	CLEANOUT		DIRECTION OF FLOW
	WALL CLEANOUT		SIAMESE FIRE DEPARTMENT CONNECTION
	PIPE PITCHES DOWN		PUMP
	GATE VALVE		WATER HAMMER ARRESTOR/SHOCK ABSORBER
	BALL VALVE		HUMIDIFIER
	BUTTERFLY VALVE (MANUAL)		DIFFERENTIAL PRESSURE TRANSMITTER
	2-WAY CONTROL VALVE		SPRINKLER HEAD
	3-WAY CONTROL VALVE		GAS TURRET
	BALANCING VALVE (CIRCUIT SETTER)		MEDICAL OXYGEN OUTLET
	CHECK VALVE		MEDIAL VACUUM OUTLET
	PLUG VALVE		MEDICAL AIR OUTLET
	GLOBE VALVE		NITREOUS OXIDE OUTLET
	NEEDLE VALVE		
	BACKFLOW PREVENTER		
	SOLENOID VALVE		
	PRESSURE REGULATING VALVE		
	PRESSURE RELIEF VALVE		
	STRAINER		
	STRAINER W/ BLOWDOWN		
	PRESSURE SWITCH		

PIPING SYSTEMS

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

GENERAL SYMBOLS

	DETAIL I.D.
	DETAIL TAG
	KEYED NOTE
	LIMIT OF DEMOLITION
	CONNECTION OF NEW WORK TO EXISTING

FIRE PROTECTION SYMBOLS

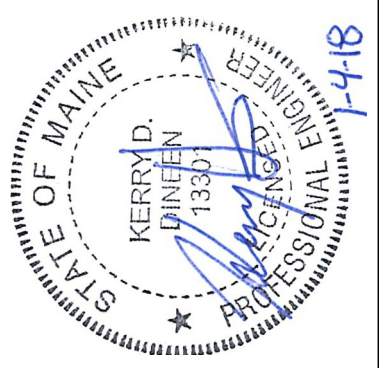
	FLOW SWITCH
	VALVE WITH TAMPER SWITCH

ABBREVIATIONS

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

GENERAL NOTE:

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PROJECT NO. 17033 FIELD BOOK DESIGN CHKD DRAWN

PLUMBING AND FIRE PROTECTION LEGEND AND ABBREVIATIONS

VERTICAL CIRCULATION IMPROVEMENTS

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DATE	SCALE
12/21/17	NOT TO SCALE

2.PL001