

E1 SYMBOLS LEGEND

Symbol	Description	Symbol	Description	
---	AW --- ACID WASTE	---	LPR --- LOW-PRESSURE CONDENSATE	
---	ATV --- AIR RELIEF	---	LPS --- LOW-PRESSURE STEAM	
---	BBD --- BOILER BLOWDOWN	---	MA --- MEDICAL AIR	
---	C --- CONDENSATE (HVAC DRAIN PAN)	---	MPR --- MEDIUM-PRESSURE CONDENSATE	
---	C --- CONDENSATE (HVAC DRAIN PAN - BELOW FLOOR)	---	MPS --- MEDIUM-PRESSURE STEAM	
---	CA --- COMPRESSED AIR	---	MU --- MAKEUP WATER	
---	CHWR --- CHILLED WATER RETURN	---	N2 --- NITROGEN	
---	CHWS --- CHILLED WATER SUPPLY	---	NO --- NITROUS OXIDE	
---	CWS --- CONDENSER WATER SUPPLY	---	NPW --- NON-POTABLE WATER	
---	CWR --- CONDENSER WATER RETURN	---	OX --- OXYGEN	
---	---	---	PC --- PUMPED CONDENSATE	
---	---	---	PCWR --- PROCESSED COLD WATER RETURN	
---	---	---	PCWS --- PROCESSED COLD WATER SUPPLY	
---	D --- DRAIN	---	RD --- REFRIGERANT DISCHARGE	
---	FM --- PUMP FORCE MAIN	---	RL --- REFRIGERANT LIQUID	
---	FOF --- FUEL OIL FILL	---	RS --- REFRIGERANT SUCTION	
---	FOR --- FUEL OIL RETURN	---	RW --- RAIN WATER ABOVE FLOOR	
---	FOS --- FUEL OIL SUPPLY	---	RW --- RAIN WATER BELOW GRADE	
---	FOV --- FUEL OIL TANK VENT	---	---	---
---	FW --- FEEDWATER	---	---	---
---	GR --- GLYCOL RETURN	---	---	---
---	GS --- GLYCOL SUPPLY	---	---	---
---	H --- HUMIDIFICATION LINE	---	---	---
---	H2 --- HYDROGEN GAS	---	---	---
---	HPWR --- HEAT PUMP WATER RETURN	---	---	---
---	HPWS --- HEAT PUMP WATER SUPPLY	---	---	---
---	HPC --- HIGH-PRESSURE CONDENSATE	---	---	---
---	HPS --- HIGH-PRESSURE STEAM	---	---	---
---	HTWR --- HIGH-TEMP. HOT WATER RETURN	---	---	---
---	HWR --- HOT WATER RETURN	---	---	---
---	HWS --- HOT WATER SUPPLY	---	---	---
---	IND --- INDUSTRIAL WASTE	---	---	---
---	IW --- INDIRECT WASTE	---	---	---
---	LN --- LIQUID NITROGEN	---	---	---
---	LOX --- LIQUID OXYGEN	---	---	---
---	LPC --- LOW-PRESSURE CONDENSATE	---	---	---
---	LP --- LIQUID PETROLEUM GAS	---	---	---

A1 PIPING LINETYPE LEGEND

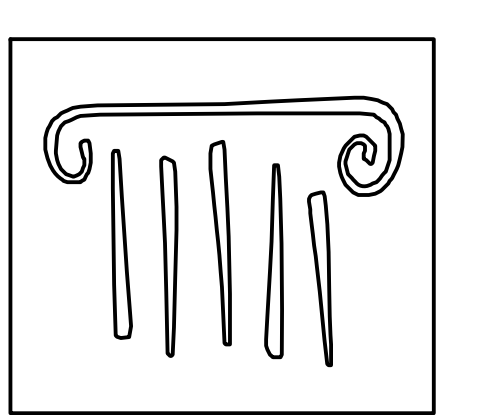
---	NONE
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Symbol	Description	Symbol	Description	Symbol	Description	Symbol	Description
AAV	AUTOMATIC AIR VENT	DN	DOWN	LP	LIQUID PETROLEUM GAS	TOD	TOP OF DUCT
AC	ABOVE CEILING	DS	DOWNSPOUT	LPR	LOW PRESSURE STEAM RETURN	TP	TRAP PRIMER
ACC	AIR COOLED CONDENSER	DT	DROP AND TRANSITION	LPS	LOW PRESSURE STEAM SUPPLY	TSP	TOTAL STATIC PRESSURE
ACU	AIR CONDITIONING UNIT	DV	DRAIN VALVE	MAX	MAXIMUM	TTS	TIGHT TO STEEL
ADA	AMERICANS WITH DISABILITIES ACT	DWG	DRAWING	MBH	1000 BTU/HR.	TV	TURNING VANE
AD	ACCESS DOOR	EA	EXHAUST AIR	MFR	MANUFACTURER	TW	TEMPERED WATER
AE	ACID EXHAUST	EF	EXHAUST FAN	MIN	MINIMUM	TYP	TYPICAL
AW	ACID WASTE	EG	EXHAUST GRILLE	MOD	MOTOR OPERATED DAMPER	UH	UNIT HEATER
AFF; A.F.F.	ABOVE FINISHED FLOOR	ELEV	ELEVATION	MPG	MEDIUM PRESSURE GAS	UIC	UP IN CHASE
AHU	AIR HANDLING UNIT	ELONG	ELONGATE	MPV	MULTI-PURPOSE VALVE	UIW	UP IN WALL
AP	ACCESS PANEL	ENC	ENCLOSURE	MTD	MOUNTED	UV	UNIT VENTILATOR
APPROX	APPROXIMATE; APPROXIMATELY	ER	EXHAUST REGISTER	MTG	MOUNTING	V	VENT
APMR	AS PER MFR'S RECOMMENDATIONS	ESP	EXTERNAL STATIC PRESSURE	MUA	MAKE UP AIR	VAC	VACUUM
ATC	AUTOMATIC TEMPERATURE CONTROL	ET	EXPANSION TANK	N.C.	NORMALLY CLOSED	VB	VACUUM BREAKER
AV	AIR VENT	(E)	EXISTING	N.O.	NORMALLY OPEN	VCF	VALVE & CAP FOR FUTURE
BC	BALANCING COCK	F & T	FLOAT AND THERMOSTATIC	NPT	NATIONAL PIPE THREAD	VD	VOLUME DAMPER - MANUAL
BDD	BACKDRAFT DAMPER	FBO	FURNISHED BY OTHERS	NTS	NOT TO SCALE	VLV	VALVE
BG	BLAST GATE	FBP	FACE AND BYPASS	OA	OUTSIDE AIR	VS	VENT STACK
BF	BARRIER FREE	FC	FLEXIBLE CONNECTION	OB	OPPOSED BLADE DAMPER	VTR	VENT THROUGH ROOF
BFP	BACKFLOW PREVENTER	FCO	FLOOR CLEANOUT	OD	OUTSIDE DIAMETER	W	WASTE
BHP	BRAKE HORSEPOWER	FD#	FLOOR DRAIN TAG	OED	OPEN ENDED DUCT	W/	WITH
BLDG	BUILDING	FD	FIRE DAMPER	P-#	PLUMBING FIXTURE TAG	WB	WET BULB TEMPERATURE, °F
BOD	BOTTOM OF DUCT	FIN	FINISH	PD	PUMPED DISCHARGE	WCO	WALL CLEANOUT
B.T.U.	BRITISH THERMAL UNIT	FL	FLOOR	PRS	PRESSURE REDUCING STATION	WH	WATER HEATER
C; CONV.	CONVECTOR	FTG	FOOTING	PRV	PRESSURE REDUCING VALVE	WHYD	WALL HYDRANT
CCW	COUNTER CLOCKWISE	FTR	FINNED TUBE RADIATION	RA	RETURN AIR	NTS	NOT TO SCALE
CFE	CAPPED FOR FUTURE	FS	FLOW SWITCH	RD	ROOF DRAIN	Ø	DIAMETER
CFM	CUBIC FEET PER MINUTE	FM	FORCE MAIN	REC	RECOMMENDATION	@	AT
CLG	CEILING	GC	GENERAL CONTRACTOR	REG	REGULAR	&	AND
CO	CLEANOUT	GPM	GALLONS PER MINUTE	RF	RETURN FAN	%	PERCENT
CM	CONSTRUCTION MANAGER	GV	GRAVITY VENTILATOR	RG	RETURN GRILLE		
CNTR	COUNTER; COUNTERTOP	H	HUMIDIFIER	RHC	REHEAT COIL		
CONN	CONNECT; CONNECTION	HB	HOSE BIB	RM	ROOM		
CONT	CONTINUE; CONTINUATION	HC; HDC	HANDICAP ACCESS	RPZ	REDUCED PRESSURE BFP		
COORD	COORDINATE	HGT, HT.	HEIGHT	RR	RETURN REGISTER		
CORR	CORRIDOR	HP	HEAT PUMP	RV	RELIEF VALVE		
CR	CHEMICAL RESISTING	HRU	HEAT RECOVERY UNIT	RW	RAIN WATER		
CT	COOLING TOWER	HTR	HEATER	S	SUPPLY AIR		
CTE	CONNECT TO EXISTING	H & V	HEATING AND VENTILATION	SA-"	SHOCK ABSORBER OF PDI SIZE ("") AS INDICATED		
CTR	CENTER	HVAC	HEATING, VENTILATING, & AIR COND.	SCV	SELF CONTAINED VALVE		
CTRLN	CENTERLINE	HW	HOT WATER	SD	SMOKE DAMPER		
CU	COPPER	HWR	HOT WATER RETURN	SF	SUPPLY FAN		
CUH	CABINET UNIT HEATER	HWS	HOT WATER SUPPLY	SG	SUPPLY GRILLE		
C.V.	CONTROL VALVE	HX	HEAT EXCHANGER	SGL	SINGLE		
CW	COLD WATER/CLOCKWISE	ID	INSIDE DIAMETER	SHT	SHEET		
DB	DRY BULB TEMPERATURE, °F	IN WG	INCHES WATER GAUGE	SPLR	SPRINKLER		
DC	DOUBLE CONTAINED	INCL	INCLUDING	SQ FT; S. F.	SQUARE FEET		
DDC	DIRECT DIGITAL CONTROL	INV EL	INVERT ELEVATION	SR	SUPPLY REGISTER		
DET	DETAIL	IPS	IRON PIPE SIZE	S/O	SHUT OFF		
DIA	DIAMETER	KE-#	KITCHEN EQUIPMENT NUMBER	S.S.	STAINLESS STEEL		
DIC	DOWN IN CHASE	LD	LINEAR DIFFUSER	TD	TRENCH DRAIN		
DIW	DOWN IN WALL	LE-#	SCIENCE LAB EQUIPMENT NUMBER	TG	TRANSFER GRILLE		

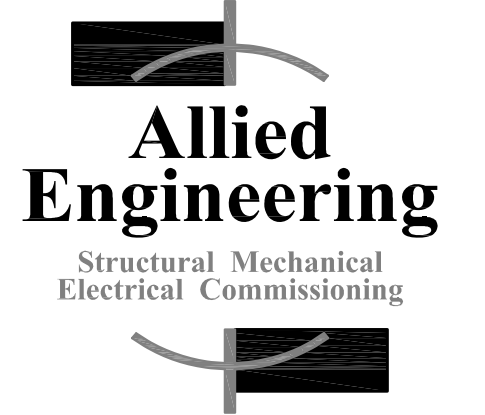
A5 ABBREVIATIONS

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

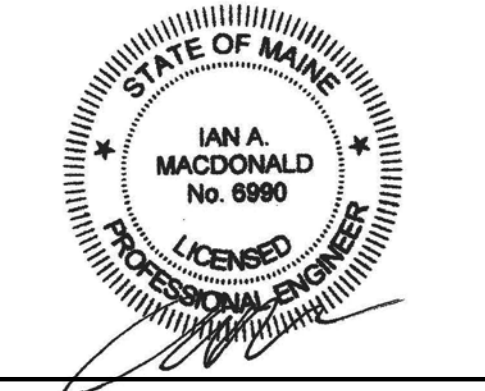


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REVISIONS		
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UNIVERSITY OF
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PORTLAND, MAINE

**ALUMNI HALL
RENOVATION**

**PLUMBING AND HVAC
NOTES, LEGENDS AND
ABBREVIATIONS**

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