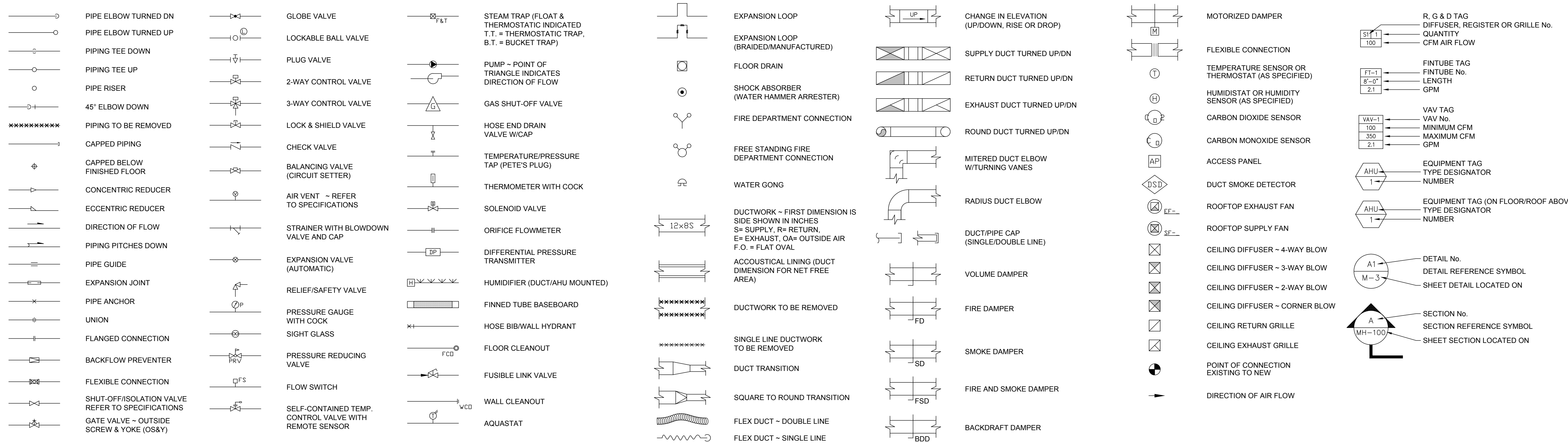


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**NOTE**  
ALL GENERAL NOTES, SYMBOL LEGENDS, AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL PLUMBING AND HVAC DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION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

**E1 SYMBOLS LEGEND**

NONE

AW	ACID WASTE	LPR	LOW-PRESSURE CONDENSATE	AAV	AUTOMATIC AIR VENT	DN	DOWN	LD	LINEAR DIFFUSER	TD	TRENCH DRAIN
ATV	AIR RELIEF	LPS	LOW-PRESSURE STEAM	AC	ABOVE CEILING	DS	DOWNSPOUT	LE-#	SCIENCE LAB EQUIPMENT NUMBER	TG	TRANSFER GRILLE
BBD	BOILER BLOWDOWN	MA	MEDICAL AIR	ACC	AIR COOLED CONDENSER	DT	DROP AND TRANSITION	LP	LIQUID PETROLEUM GAS	TOD	TOP OF DUCT
C	CONDENSATE (HVAC DRAIN PAN)	MPR	MEDIUM-PRESSURE CONDENSATE	ACU	AIR CONDITIONING UNIT	DV	DRAIN VALVE	LPR	LOW PRESSURE STEAM RETURN	TP	TRAP PRIMER
C	CONDENSATE (HVAC DRAIN PAN - BELOW FLOOR)	MPS	MEDIUM-PRESSURE STEAM	ADA	AMERICANS WITH DISABILITIES ACT	DWG	DRAWING	LPS	LOW PRESSURE STEAM SUPPLY	TSP	TOTAL STATIC PRESSURE
CA	COMPRESSED AIR	MU	MAKEUP WATER	AD	ACCESS DOOR	EA	EXHAUST AIR	MAX	MAXIMUM	TTS	TIGHT TO STEEL
CHWR	CHILLED WATER RETURN	N2	NITROGEN	AE	ACID EXHAUST	EF	EXHAUST FAN	MBH	1000 BTU/HR.	TV	TURNING VANE
CHWS	CHILLED WATER SUPPLY	NG	NATURAL GAS	AW	ACID WASTE	EG	EXHAUST GRILLE	MFR	MANUFACTURER	TW	TEMPERED WATER
CWS	CONDENSER WATER SUPPLY	NO	NITROUS OXIDE	AFF; A.F.F.	ABOVE FINISHED FLOOR	ELEV	ELEVATION	MIN	MINIMUM	TYP	TYPICAL
CWR	CONDENSER WATER RETURN	NPW	NON-POTABLE WATER	AHU	AIR HANDLING UNIT	ELONG	ELONGATE	MOD	MOTOR OPERATED DAMPER	UH	UNIT HEATER
D	DRAIN	O2	OXYGEN	AP	ACCESS PANEL	ENC	ENCLOSURE	MPG	MEDIUM PRESSURE GAS	UIC	UP IN CHASE
FM	PUMP FORCE MAIN	PC	PUMPED CONDENSATE	APPROX	APPROXIMATE; APPROXIMATELY	ER	EXHAUST REGISTER	MPV	MULTI-PURPOSE VALVE	UIW	UP IN WALL
FOF	FUEL OIL FILL	PCW	PROCESSED COLD WATER SUPPLY	APMR	AS PER MFR'S RECOMMENDATIONS	ESP	EXTERNAL STATIC PRESSURE	MTD	MOUNTED	UV	UNIT VENTILATOR
FOR	FUEL OIL RETURN	PHW	PROCESSED HOT WATER	ATC	AUTOMATIC TEMPERATURE CONTROL	ET	EXPANSION TANK	MTG	MOUNTING	V	VENT
FOS	FUEL OIL SUPPLY	PHWR	PROCESSED HOT WATER RETURN	AV	AIR VENT	(E)	EXISTING	MUA	MAKE UP AIR	VAC	VACUUM
FOV	FUEL OIL TANK VENT	RD	REFRIGERANT DISCHARGE	BC	BALANCING COCK	F & T	FLOAT AND THERMOSTATIC	N.C.	NORMALLY CLOSED	VB	VACUUM BREAKER
FW	FEEDWATER	BDD	BACKDRAFT DAMPER	BHP	BRAKE HORSEPOWER	FBO	FURNISHED BY OTHERS	N.O.	NORMALLY OPEN	VCF	VALVE & CAP FOR FUTURE
GR	GLYCOL RETURN	BG	BLAST GATE	BLDG	BUILDING	FBP	FACE AND BYPASS	NIC	NOT IN CONTRACT	VD	VOLUME DAMPER - MANUAL
GS	GLYCOL SUPPLY	BF	BARRIER FREE	BOD	BOTTOM OF DUCT	FC	FLEXIBLE CONNECTION	NPT	NATIONAL PIPE THREAD	VLV	VALVE
H	HYDROGEN GAS	BFP	BACKFLOW PREVENTER	B.T.U.	BRITISH THERMAL UNIT	FCO	FLOOR CLEANOUT	NTS	NOT TO SCALE	VS	VENT STACK
HE	HELIUM	BH	BRAKE HORSEPOWER	C, CONV.	CONVECTOR	FD-#	FLOOR DRAIN TAG	OA	OUTSIDE AIR	VTR	VENT THROUGH ROOF
HPWR	HEAT PUMP WATER RETURN	BLDG	BUILDING	CCW	COUNTER CLOCKWISE	FD	FIRE DAMPER	OB	OPPOSED BLADE DAMPER	W	WASTE
HPWS	HEAT PUMP WATER SUPPLY	RL	REFRIGERANT LIQUID	CFF	CAPPED FOR FUTURE	FIN	FINISH	OD	OUTSIDE DIAMETER	W	WASTE
HPC	HIGH-PRESSURE CONDENSATE	ROS	REVERSE OSMOSIS SUPPLY	CFM	CUBIC FEET PER MINUTE	FL	FLOOR	OED	OPEN ENDED DUCT	W	WITH
HPS	HIGH-PRESSURE STEAM	ROR	REVERSE OSMOSIS RETURN	CLG	CEILING	FTG	FOOTING	P-#	PLUMBING FIXTURE TAG	WB	WET BULB TEMPERATURE, °F
HTWR	HIGH-TEMP. HOT WATER RETURN	RS	REFRIGERANT SUCTION	CLG	CEILING	FTR	FINNED TUBE RADIATION	PD	PUMPED DISCHARGE	WCO	WALL CLEANOUT
HWR	HOT WATER RETURN	RW	RAIN WATER ABOVE FLOOR	CM	CONSTRUCTION MANAGER	FS	FLOW SWITCH	PRS	PRESSURE REDUCING STATION	WH	WATER HEATER
HWS	HOT WATER SUPPLY	RW	RAIN WATER BELOW GRADE	CNTR	COUNTER; COUNTERTOP	FM	FORCE MAIN	PRV	PRESSURE REDUCING VALVE	WHYD	WALL HYDRANT
IND	INDUSTRIAL WASTE	SP	SPRINKLER MAIN PIPING	CONN	CONNECT; CONNECTION	GC	GENERAL CONTRACTOR	RA	RETURN AIR	NTS	NOT TO SCALE
IW	INDIRECT WASTE	SWR	SOLAR WATER RETURN	CONT	CONTINUE; CONTINUATION	GE	GENERAL EXHAUST	RD	ROOF DRAIN	Ø	DIAMETER
LN	LIQUID NITROGEN	SWS	SOLAR WATER SUPPLY	COORD	COORDINATE	GPM	GALLONS PER MINUTE	REC	RECOMMENDATION	@	AT
LOX	LIQUID OXYGEN	TP	TRAP PRIMER PIPING ABOVE GRADE	CR	CORRIDOR	GV	GRAVITY VENTILATOR	REG	REGULAR	&	AND
LPC	LOW-PRESSURE CONDENSATE	TRP	TRAP PRIMER PIPING BELOW GRADE	CT	CHEMICAL RESISTING	H	HUMIDIFIER	RG	RETURN GRILLE	%	PERCENT
LP	LIQUID PETROLEUM GAS	TW	TEMPERED WATER	CTE	CONNECT TO EXISTING	HC; HDC	HANDICAP ACCESS	RHC	REHEAT COIL		
		UHP-HE	ULTRA - H1 PURITY HELIUM	CTR	CENTER	HE	HOOD EXHAUST	RM	ROOM		
		VAC	VACUUM (AIR)	CTRLN	CENTERLINE	HGT, HT.	HEIGHT	RPZ	REDUCED PRESSURE BFP		
		VC	VACUUM CLEANING (HOUSE)	CU	COPPER	HP	HEAT PUMP	RR	RETURN REGISTER		
		VPD	VACUUM PUMP DISCHARGE	CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT	RV	RELIEF VALVE		
				C.V.	CONTROL VALVE	HTR	HEATER	RW	RAIN WATER		
				CW	COLD WATER/CLOCKWISE	H & V	HEATING AND VENTILATION	S	SUPPLY AIR		
				DB	DRY BULB TEMPERATURE, °F	HVAC	HEATING, VENTILATING, & AIR COND.	SA-"	SHOCK ABSORBER OF PDI SIZE ("") AS INDICATED		
				DC	DOUBLE CONTAINED	HW	HOT WATER	SCV	SELF CONTAINED VALVE		
				DDC	DIRECT DIGITAL CONTROL	HWR	HOT WATER RETURN	SD	SMOKE DAMPER		
				DET	DETAIL	HWS	HOT WATER SUPPLY	SF	SUPPLY FAN		
				DIA	DIAMETER	HX	HEAT EXCHANGER	SG	SUPPLY GRILLE		
				DIC	DOWN IN CHASE	ID	INSIDE DIAMETER	SGL	SINGLE		
				DIW	DOWN IN WALL	IN WG	INCHES WATER GAUGE	SHT	SHEET		
						INCL	INCLUDING	SPLR	SPRINKLER		
						INV EL	INVERT ELEVATION	SQ FT; S. F.	SQUARE FEET		
						IPS	IRON PIPE SIZE	SR	SUPPLY REGISTER		
						KE-#	KITCHEN EQUIPMENT NUMBER	S/O	SHUT OFF		
								S.S.	STAINLESS STEEL		

**A1 PIPING LINETYPE LEGEND**

NONE

**A4 ABBREVIATIONS**

NONE

MECHANICAL LEGEND AND ABBREVIATIONS

BGS #2720  
SRL 239-18

10/28/2016

MHO