

	PIPE ELBOW TURNED DN		GLOBE VALVE		STEAM TRAP (FLOAT & THERMOSTATIC INDICATED T.T.= THERMOSTATIC TRAP, B.T.= BUCKET TRAP)		EXPANSION LOOP		CHANGE IN ELEVATION (UP, DOWN, RISE OR DROP)		MOTORIZED DAMPER		REGISTER, GRILLE & DIFFUSER TAG DIFFUSER, REGISTER OR GRILLE No. QUANTITY CFM AIR FLOW
	PIPE ELBOW TURNED UP		LOCKABLE BALL VALVE		PUMP - POINT OF TRIANGLE INDICATES DIRECTION OF FLOW		FLOOR DRAIN		SUPPLY DUCT TURNED UP/DN		FLEXIBLE CONNECTION		FINTUBE TAG FINTUBE No. LENGTH GPM
	PIPING TEE DOWN		PLUG VALVE		GAS SHUT-OFF VALVE		SHOCK ABSORBER (WATER HAMMER ARRESTER)		RETURN DUCT TURNED UP/DN		TEMPERATURE SENSOR OR THERMOSTAT (AS SPECIFIED)		HUMIDISTAT OR HUMIDITY SENSOR (AS SPECIFIED)
	PIPING TEE UP		2-WAY CONTROL VALVE		HOSE END DRAIN VALVE W/CAP		FIRE DEPARTMENT CONNECTION		EXHAUST DUCT TURNED UP/DN		CARBON DIOXIDE SENSOR		CARBON MONOXIDE SENSOR
	PIPE RISER		3-WAY CONTROL VALVE		TEMPERATURE/PRESSURE TAP (PETE'S PLUG)		FREE STANDING FIRE DEPARTMENT CONNECTION		ROUND DUCT TURNED UP/DN		ACCESS PANEL		EQUIPMENT TAG TYPE DESIGNATOR NUMBER
	45° ELBOW DOWN		LOCK & SHIELD VALVE		THERMOMETER WITH COCK		WATER GONG		MITERED DUCT ELBOW W/TURNING VANES		ROOFTOP EXHAUST FAN		EQUIPMENT TAG (ON FLOOR/ROOF ABOVE) TYPE DESIGNATOR NUMBER
	PIPING TO BE REMOVED		CHECK VALVE		SOLENOID VALVE		ACOUSTICAL LINING (DUCT DIMENSION FOR NET FREE AREA)		DUCT/PIPE CAP (SINGLE/DOUBLE LINE)		ROOFTOP SUPPLY FAN		DETAIL REFERENCE SYMBOL DETAIL No. SHEET DETAIL LOCATED ON
	CAPPED PIPING		BALANCING VALVE CIRCUIT SETTER		ORIFICE FLOWMETER		DUCTWORK TO BE REMOVED		FIRE DAMPER		CEILING DIFFUSER - 4-WAY BLOW		SECTION REFERENCE SYMBOL SECTION No. SHEET SECTION LOCATED ON
	CAPPED BELOW FINISHED FLOOR		AIR VENT - REFER TO SPECIFICATIONS		DIFFERENTIAL PRESSURE TRANSMITTER		SINGLE LINE DUCTWORK TO BE REMOVED		SMOKE DAMPER		CEILING DIFFUSER - 3-WAY BLOW		
	CONCENTRIC REDUCER		STRAINER WITH BLOWDOWN VALVE AND CAP		HUMIDIFIER (DUCT/AHU MOUNTED)		DUCT TRANSITION		FIRE AND SMOKE DAMPER		CEILING DIFFUSER - 2-WAY BLOW		
	ECCENTRIC REDUCER		EXPANSION VALVE (AUTOMATIC)		FINNED TUBE BASEBOARD		SQUARE TO ROUND DUCT TRANSITION		BACKDRAFT DAMPER		CEILING DIFFUSER - CORNER BLOW		
	DIRECTION OF FLOW		RELIEF/SAFETY VALVE		HOSE BIB/WALL HYDRANT		FLEX DUCT - DOUBLE LINE				CEILING RETURN GRILLE		
	PIPE PITCHES DOWN		PRESSURE GAUGE WITH COCK		FLOOR CLEANOUT		FLEX DUCT - SINGLE LINE				CEILING EXHAUST GRILLE		
	PIPE GUIDE		SIGHT GLASS		FUSIBLE LINK VALVE						POINT OF CONNECTION - EXISTING TO NEW		
	EXPANSION JOINT		PRESSURE REDUCING VALVE		WALL CLEANOUT						DIRECTION OF AIR FLOW		
	PIPE ANCHOR		FLOW SWITCH		AQUASTAT								
	UNION		SELF-CONTAINED TEMP. CONTROL VALVE WITH REMOTE SENSOR										
	FLANGED CONNECTION												
	BACKFLOW PREVENTER												
	FLEXIBLE CONNECTION												
	SHUT-OFF/ISOLATION VALVE REFER TO SPECIFICATIONS												
	GATE VALVE - OUTSIDE SCREW & YOKE (OS&Y)												

E1 -SYMBOLS LEGEND
 12" = 1'-0"

	ACID WASTE		LOW PRESSURE CONDENSATE		AUTOMATIC AIR VENT		CABINET UNIT HEATER		HOSE BIBB		PLUMBING FIXTURE TAG		UNIT VENTILATOR
	AIR RELIEF		LOW PRESSURE STEAM		ABOVE CEILING		CONTROL VALVE		HANDICAP ACCESS		PUMPED DISCHARGE		VENT
	BOILER BLOWDOWN		MEDICAL AIR		AIR COOLED CONDENSER		COLD WATER; CLOCKWISE		HEIGHT		PRESSURE REDUCING STATION		VACUUM
	CONDENSATE (HVAC DRAIN PAN)		MEDIUM PRESSURE CONDENSATE		AIR CONDITIONING UNIT		DRY BULB TEMPERATURE		HEAT PUMP		PRESSURE REDUCING VALVE		VACUUM BREAKER
	CONDENSATE (HVAC DRAIN PAN)		MEDIUM PRESSURE STEAM		AMERICANS WITH DISABILITIES ACT		DOUBLE CONTAINED		HEAT RECOVERY UNIT		RETURN AIR		VALVE & CAP FOR FUTURE
	COMPRESSED AIR		MAKE-UP WATER		ACCESS DOOR		DIRECT DIGITAL CONTROL		HEATER		ROOF DRAIN		VOLUME DAMPER - MANUAL
	CHILLED WATER RETURN		NITROGEN		ACID EXHAUST		DETAIL		HEATING AND VENTILATION		RECOMMENDATION		VALVE
	CHILLED WATER SUPPLY		NATURAL GAS		ACID WASTE		DIAMETER		HEATING, VENTILATING AND AIR COND.		REGULAR		VENT STACK
	CONDENSER WATER RETURN		NITROUS OXIDE		ABOVE FINISHED FLOOR		DOWN IN CHASE		HOT WATER		RETURN FAN		VENT TO ROOF
	CONDENSER WATER SUPPLY		NON-POTABLE WATER		AIR HANDLING UNIT		DOWN IN WALL		HOT WATER RETURN		RETURN GRILLE		WASTE
	DOMESTIC COLD WATER		NITROUS OXIDE		ACCESS PANEL		DOWN		HOT WATER SUPPLY		REHEAT COIL		WITH
	DRAIN		NON-POTABLE WATER		APPROXIMATE; APPROXIMATELY		DOWNSPOUT		HEAT EXCHANGER		ROOM		WET BULB TEMPERATURE, °F
	PUMP FORCE MAIN		OXYGEN		AS PER MFR'S RECOMMENDATIONS		DROP AND TRANSITION		INSIDE DIAMETER		REDUCED PRESSURE BFP		WALL CLEANOUT
	FUEL OIL FILL		PUMPED CONDENSATE		AUTOMATIC TEMPERATURE CONTROL		DRAIN VALVE		INCHES WATER GAUGE		RETURN REGISTER		WATER HEATER
	FUEL OIL RETURN		PROCESS COLD WATER RETURN		AIR VENT		DRAWING		INCLUDING		RELIEF VALVE		WALL HYDRANT
	FUEL OIL SUPPLY		PROCESS COLD WATER SUPPLY		BALANCING COCK		EXHAUST AIR		INVERT ELEVATION		RAIN WATER		DIAMETER
	FUEL OIL TANK VENT		REFRIGERANT DISCHARGE		BARRIER FREE		EXHAUST GRILLE		IRON PIPE SIZE		SUPPLY AIR		AT
	FEEDWATER		REFRIGERANT LIQUID		BACKFLOW PREVENTER		ELEVATION		KITCHEN EQUIPMENT NUMBER		SHOCK ABSORBER OF PDI SIZE (") AS INDICATED		AND
	GLYCOL RETURN		REFRIGERANT SUCTION		BRAKE HORSEPOWER		ELONGATE		LINEAR DIFFUSER		SELF-CONTAINED VALVE		PERCENT
	GLYCOL SUPPLY		RAIN WATER - ABOVE FLOOR		BUILDING		ENCLOSURE		SCIENCE LAB EQUIPMENT NUMBER		SMOKE DAMPER		
	HUMIDIFICATION LINE		RAIN WATER - BELOW GRADE		BOTTOM OF DUCT		EXHAUST REGISTER		LIQUID PETROLEUM GAS		SUPPLY FAN		
	HYDROGEN GAS		SANITARY SOIL WASTE - ABOVE FLOOR		BUILDING		EXTERNAL STATIC PRESSURE		LOW PRESSURE STEAM RETURN		SUPPLY GRILLE		
	HEAT PUMP WATER RETURN		SANITARY SOIL WASTE - BELOW GRADE		BOTTOM OF DUCT		EXPANSION TANK		MAXIMUM		SINGLE		
	HEAT PUMP WATER SUPPLY		SANITARY SOIL VENT - BELOW GRADE		BRITISH THERMAL UNIT		EXISTING		MOTOR OPERATED DAMPER		SHEET		
	HIGH PRESSURE CONDENSATE		SANITARY WASTE & VENT COMBINATION		CONVECTOR		EXISTING		MANUFACTURER		SPRINKLER		
	HIGH PRESSURE STEAM		SANITARY WASTE & VENT COMBINATION		COUNTER CLOCKWISE		FLOAT AND THERMOSTATIC		MINIMUM		SQUARE FEET		
	HIGH-TEMP HOT WATER RETURN		SPRINKLER MAIN PIPING		CAPPED FOR FUTURE		FURNISHED BY OTHERS		MEDIUM PRESSURE GAS		SUPPLY REGISTER		
	HOT WATER RETURN		SOLAR WATER RETURN		CUBIC FEET PER MINUTE		FACE AND BYPASS		MULTI-PURPOSE VALVE		SHUT-OFF		
	HOT WATER SUPPLY		SOLAR WATER SUPPLY		CEILING		FLEXIBLE CONNECTION		MOUNTED		STAINLESS STEEL		
	INDUSTRIAL WASTE		SOLAR WATER SUPPLY		CLEANOUT		FLOOR CLEANOUT		MULTI-PURPOSE VALVE		TRENCH DRAIN		
	INDIRECT WASTE		SOLAR WATER SUPPLY		CONSTRUCTION MANAGER		FLOOR DRAIN TAG		MOUNTING		TRANSFER GRILLE		
	LIQUID NITROGEN		SOLAR WATER SUPPLY		COUNTER; COUNTER TOP		FIRE DAMPER		MAKE UP AIR		TOP OF DUCT		
	LIQUID OXYGEN		SOLAR WATER SUPPLY		CONNECT; CONNECTION		FINISH		NORMALLY CLOSED		TRAP PRIMER		
	LOW PRESSURE CONDENSATE		SOLAR WATER SUPPLY		CONTINUE; CONTINUATION		FLOOR		NORMALLY OPEN		TOTAL STATIC PRESSURE		
	LIQUID PETROLEUM GAS		SOLAR WATER SUPPLY		COORDINATE		FOOTING		NOT IN CONTRACT		TIGHT TO STEEL		
			SOLAR WATER SUPPLY		CORRIDOR		FINNED TUBE RADIATION		NATIONAL PIPE THREAD		TURNING VANE		
			SOLAR WATER SUPPLY		CHEMICAL RESISTING		FLOW SWITCH		NOT TO SCALE		TEMPERED WATER		
			SOLAR WATER SUPPLY		CONNECT TO EXISTING		FORCE MAIN		OUTSIDE AIR		TYPICAL		
			SOLAR WATER SUPPLY		CENTER		GENERAL CONTRACTOR		OPPOSED BLADE DAMPER		UNIT HEATER		
			SOLAR WATER SUPPLY		CENTERLINE		GALLONS PER MINUTE		OUTSIDE DIAMETER		UP IN CHASE		
			SOLAR WATER SUPPLY		COPPER; CONDENSING UNIT		GRAVITY VENTILATOR		OPEN ENDED DUCT		UP IN WALL		
			SOLAR WATER SUPPLY										

A1 -PIPING LINETYPE LEGEND
 12" = 1'-0"

A5 - ABBREVIATIONS
 12" = 1'-0"

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.