

1	2	3	4	5	6	7	8	9	10
 PIPE ELBOW TURNED DN PIPE ELBOW TURNED UP PIPING TEE DOWN PIPING TEE UP PIPE RISER 45° ELBOW DOWN PIPING TO BE REMOVED CAPPED PIPING CAPPED BELOW FINISHED FLOOR CONCENTRIC REDUCER ECCENTRIC REDUCER DIRECTION OF FLOW PIPING PITCHES DOWN PIPE GUIDE EXPANSION JOINT PIPE ANCHOR UNION FLANGED CONNECTION BACKFLOW PREVENTER FLEXIBLE CONNECTION SHUT-OFF/ISOLATION VALVE GATE VALVE ~ OUTSIDE SCREW & YOKE (OS&Y)	 GLOBE VALVE LOCKABLE BALL VALVE PLUG VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE LOCK & SHIELD VALVE CHECK VALVE AIR ELIMINATOR BALANCING VALVE (CIRCUIT SETTER) AUTOMATIC AIR VENT MANUAL AIR VENT W/4" HIGH CHAMBER STRAINER STRAINER W/BLOWDOWN VALVE AND CAP EXPANSION VALVE (AUTOMATIC) RELIEF/SAFETY VALVE PRESSURE GAUGE/COCK SIGHT GLASS PRESSURE REDUCING VALVE	 FLOW SWITCH SELF-CONTAINED TEMP. CONTROL VALVE WITH REMOTE SENSOR STEAM TRAP (FLOAT & THERMOSTATIC INDICATED B.T. = BUCKET TRAP) PUMP ~ POINT OF TRIANGLE INDICATES DIRECTION OF FLOW GAS SHUT-OFF VALVE HOSE END DRAIN VALVE W/CAP TEMPERATURE/PRESSURE TAP (PET'S PLUG) THERMOMETER/COCK SOLENOID VALVE ORIFICE FLOWMETER DIFFERENTIAL PRESSURE TRANSMITTER HUMIDIFIER FINNED TUBE BASEBOARD HOSE BIB/WALL HYDRANT FLOOR CLEANOUT FUSIBLE LINK VALVE	 WALL CLEANOUT ADJUSTAT EXPANSION LOOP FLOOR DRAIN SHOCK ABSORBER (WATER HAMMER ARRESTER) FIRE DEPARTMENT CONNECTION FREE STANDING FIRE DEPARTMENT CONNECTION WATER GONG (2) PIPES AT 45° DOWN INTO VERTICAL PIPE	 DUCTWORK ~ FIRST DIMENSION IS SIDE SHOWN IN INCHES S = SUPPLY, R = RETURN, E = EXHAUST, FA = FRESH AIR F.O. = FLAT OVAL DUCTWORK TO BE REMOVED ACOUSTICAL LINING (DUCT DIMENSION FOR NET FREE AREA) DUCT TRANSITION SQUARE TO ROUND TRANSITION FLEX DUCT ~ DOUBLE LINE FLEX DUCT ~ SINGLE LINE CHANGE IN ELEVATION (UP OR DOWN) SUPPLY DUCT TURNED UP/DN RETURN DUCT TURNED UP/DN EXHAUST DUCT TURNED UP/DN ROUND DUCT TURNED UP/DN MITERED DUCT ELBOW W/TURNING VANES RADIUS DUCT ELBOW DUCT/PIPE CAP (SINGLE/DOUBLE LINE)	 SMOKE DAMPER DAMPER ~ FIRE FIRE AND SMOKE DAMPER VOLUME DAMPER BACKDRAFT DAMPER DAMPER ~ MOTORIZED FLEXIBLE CONNECTOR THERMOSTAT OR TEMP. SENSOR (AS SPECIFIED) HUMIDISTAT OR HUMIDITY SENSOR (AS SPECIFIED) SWITCH ACCESS PANEL DUCT SMOKE DETECTOR FAN ~ EXHAUST ROOF FAN ~ SUPPLY ROOF VENT CEILING DIFFUSER ~ 4-WAY BLOW CEILING DIFFUSER ~ 3-WAY BLOW	 CEILING DIFFUSER ~ 2-WAY BLOW CEILING DIFFUSER ~ CORNER BLOW CEILING RETURN GRILLE CEILING EXHAUST GRILLE POINT OF CONNECTION EXISTING TO NEW DIRECTION OF AIR FLOW (SUPPLY) DIRECTION OF AIR FLOW (RETURN) R, G & D TAG DIFFUSER, REGISTER OR GRILLE No. QUANTITY CFM AIR FLOW FIN TUBE TAG DIFFUSER, REGISTER OR GRILLE No. LENGTH GPM VAV TAG VAV No. MINIMUM CFM MAXIMUM CFM DETAIL No. DETAIL REFERENCE SYMBOL SHEET DETAIL LOCATED ON EQUIPMENT TAG TYPE DESIGNATOR NUMBER TRAP PRIMER TOTAL STATIC PRESSURE TIGHT TO STEEL TURNING VANE TEMPERED WATER TYPICAL UNIT HEATER UP IN CHASE UP IN WALL UNIT VENTILATOR VACUUM BREAKER VENT VENT BELOW FLOOR VALVE & CAP FOR FUTURE VOLUME DAMPER - MANUAL VALVE VENT STACK VENT THROUGH ROOF WASTE WITH WET BULB TEMPERATURE, F WATER HEATER WALL HYDRANT NOT TO SCALE 12" DIAMETER DUCT AT AND PERCENT			

D1	D6
PIPING SYMBOLS LEGEND	AIR DISTRIBUTION SYMBOLS LEGEND

A1	A4	A5	A6	A7	A8	A9	A10
NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
1	2	3	4	5	6	7	8
<p>ACID WASTE</p> <p>ARGON</p> <p>AIR RELIEF</p> <p>BOILER BLOWDOWN</p> <p>CONDENSATE</p> <p>CONDENSATE (BELOW FLOOR)</p> <p>COMPRESSED AIR</p> <p>CLEAN DRY AIR</p> <p>CHILLED WATER RETURN</p> <p>CHILLED WATER SUPPLY</p> <p>CONDENSER WATER SUPPLY</p> <p>CONDENSER WATER RETURN</p> <p>DOMESTIC COLD WATER</p> <p>DOMESTIC HOT WATER</p> <p>DOMESTIC WATER REGRIC.</p> <p>DRAIN</p> <p>FUEL OIL DISCHARGE</p> <p>FUEL OIL FILL</p> <p>FUEL OIL RETURN</p> <p>FUEL OIL SUPPLY</p> <p>FUEL OIL TANK VENT</p> <p>GLYCOL HEATING RETURN</p> <p>GLYCOL HEATING SUPPLY</p> <p>HUMIDIFICATION LINE</p> <p>HYDROGEN GAS</p> <p>HOUSE CLEANING VAC.</p> <p>HELIUM GAS</p> <p>HIGH-PRESSURE CONDENSATE</p> <p>HIGH-PRESSURE CONDENSATE SUPPLY</p> <p>HIGH-TEMP. HOT WATER RETURN</p> <p>HOT WATER RETURN</p> <p>HOT WATER SUPPLY</p> <p>INDUSTRIAL WASTE</p> <p>INDIRECT DRAIN</p> <p>LIQUID NITROGEN</p> <p>LIQUID OXYGEN</p> <p>LOW-PRESSURE CONDENSATE</p> <p>LIQUID PETROLEUM GAS</p>	<p>LOW-PRESSURE STEAM</p> <p>MEDICAL AIR</p> <p>MEDIUM-PRESSURE CONDENSATE</p> <p>MEDIUM-PRESSURE STEAM</p> <p>MAKEUP WATER</p> <p>NITROGEN</p> <p>NATURAL GAS</p> <p>NITROUS OXIDE</p> <p>NITROUS OXIDE</p> <p>NON-POTABLE WATER</p> <p>OXYGEN</p> <p>PLUMED CONDENSATE</p> <p>PROCESSED COLD WATER RETURN</p> <p>REFRIGERANT DISCHARGE</p> <p>REFRIGERANT LIQUID</p> <p>REFRIGERANT SUCTION</p> <p>SANITARY SOIL WASTE (ABOVE FLOOR)</p> <p>SANITARY SOIL WASTE (BELOW FLOOR)</p> <p>SANITARY SOIL VENT (ABOVE FLOOR)</p> <p>SANITARY SOIL VENT (BELOW FLOOR)</p> <p>SANITARY WASTE & VENT COMBINATION</p> <p>STORM DRAIN ABOVE FLOOR OR GRADE</p> <p>STORM DRAIN BELOW FLOOR OR GRADE</p> <p>SPRINKLER MAIN PIPING</p> <p>SOFT WATER</p> <p>TRAP PRIMER PIPING ABOVE GRADE</p> <p>TRAP PRIMER PIPING BELOW GRADE</p> <p>TEMPERED RETURN WATER</p> <p>TEMPERED SUPPLY WATER</p> <p>VACUUM (AIR)</p> <p>VACUUM CLEANING</p> <p>VACUUM PUMP DISCHARGE</p>	<p>AAV</p> <p>AC</p> <p>ACC</p> <p>ACU</p> <p>ADA</p> <p>AD</p> <p>AE</p> <p>AF, A.F.F.</p> <p>AHU</p> <p>AP</p> <p>APPROX</p> <p>APR</p> <p>ATC</p> <p>AV</p> <p>BC</p> <p>BDD</p> <p>BG</p> <p>BF</p> <p>BLDG</p> <p>BOD</p> <p>B.T.U.</p> <p>C, CONV.</p> <p>CO</p> <p>CONN</p> <p>CONN</p> <p>COORD</p> <p>CORR</p> <p>CR</p> <p>CTE</p> <p>CTR</p> <p>CU</p> <p>C.V.</p> <p>CW</p> <p>DB</p> <p>DC</p> <p>DDC</p> <p>DET</p> <p>DET</p> <p>DIA</p> <p>DIC</p> <p>DN</p> <p>DN</p> <p>DS</p>	<p>AAV</p> <p>AC</p> <p>ACC</p> <p>ACU</p> <p>ADA</p> <p>AD</p> <p>AE</p> <p>AF, A.F.F.</p> <p>AHU</p> <p>AP</p> <p>APPROX</p> <p>APR</p> <p>ATC</p> <p>AV</p> <p>BC</p> <p>BDD</p> <p>BG</p> <p>BF</p> <p>BLDG</p> <p>BOD</p> <p>B.T.U.</p> <p>C, CONV.</p> <p>CO</p> <p>CONN</p> <p>CONN</p> <p>COORD</p> <p>CORR</p> <p>CR</p> <p>CTE</p> <p>CTR</p> <p>CU</p> <p>C.V.</p> <p>CW</p> <p>DB</p> <p>DC</p> <p>DDC</p> <p>DET</p> <p>DET</p> <p>DIA</p> <p>DIC</p> <p>DN</p> <p>DN</p> <p>DS</p>	<p>DI</p> <p>DV</p> <p>EA</p> <p>EM</p> <p>EF</p> <p>EL, ELEV</p> <p>ELONG</p> <p>ENC</p> <p>ER</p> <p>ET</p> <p>EX, (E)</p> <p>F & T</p> <p>FBO</p> <p>FDP</p> <p>FC</p> <p>FD</p> <p>FD-#</p> <p>FD</p> <p>FD-#</p> <p>FD</p> <p>FL</p> <p>FL</p> <p>FTG</p> <p>FTR</p> <p>FS</p> <p>FM</p> <p>GC</p> <p>GM</p> <p>GV</p> <p>H</p> <p>HCB/BC</p> <p>HGT, HT</p> <p>HP</p> <p>HPT</p> <p>HRT</p> <p>HRT</p> <p>HTR</p> <p>H & V</p> <p>HYAC</p> <p>HW</p> <p>HW</p> <p>HWR</p> <p>HX</p> <p>IN, WG</p> <p>INCL</p> <p>INV, EL</p> <p>IPS</p> <p>KE-#</p> <p>LD</p> <p>LE-#</p> <p>LE-#</p> <p>LPG</p> <p>LPR</p> <p>LPS</p> <p>MAX</p>	<p>DRIP AND TRANSITION</p> <p>DRAIN VALVE</p> <p>DRAWING</p> <p>EXHAUST AIR</p> <p>EXHAUST FAN</p> <p>ELEVATION</p> <p>ELONGATE</p> <p>ENCLOSURE</p> <p>EXHAUST REGISTER</p> <p>EXPANSION TANK</p> <p>EXISTING</p> <p>FLOAT AND THERMOSTATIC</p> <p>FURNISHED BY OTHERS</p> <p>FACE AND BYPASS</p> <p>FLEXIBLE CONNECTION</p> <p>FLOOR CLEANOUT</p> <p>FLOOR DRAIN TAG</p> <p>FIRE DAMPER</p> <p>FINISH</p> <p>FIN</p> <p>FL</p> <p>FL</p> <p>FOOTING</p> <p>FINNED TUBE RADIATION</p> <p>FLOW SWITCH</p> <p>FORCE MAIN</p> <p>GENERAL CONTRACTOR</p> <p>GALLONS PER MINUTE</p> <p>GRAVITY VENTILATOR</p> <p>HUMIDIFIER</p> <p>HOSE BIB</p> <p>HANDICAP ACCESS</p> <p>HGT, HT</p> <p>HP</p> <p>HPT</p> <p>HRT</p> <p>HRT</p> <p>HTR</p> <p>H & V</p> <p>HEATING AND VENTILATION</p> <p>HEATING, VENTILATING, & AIR COND.</p> <p>HOT WATER</p> <p>HOT WATER RETURN</p> <p>HEAT EXCHANGER</p> <p>INCHES WATER GAUGE</p> <p>INCLUDING</p> <p>INVERT ELEVATION</p> <p>IRON PIPE SIZE</p> <p>KITCHEN EQUIPMENT NUMBER</p> <p>LINEAR DIFFUSER</p> <p>SCIENCE LAB EQUIPMENT NUMBER</p> <p>LIQUID PETROLEUM GAS</p> <p>LOW PRESSURE STEAM RETURN</p> <p>LOW PRESSURE STEAM SUPPLY</p> <p>MAXIMUM</p>	<p>1000 BTU/HR</p> <p>MANUFACTURER</p> <p>MINIMUM</p> <p>MOTOR OPERATOR DAMPER</p> <p>MEDIUM PRESSURE GAS</p> <p>MULTI-PURPOSE VALVE</p> <p>MOUNTED</p> <p>MOUNTING</p> <p>MAKE UP AIR</p> <p>NORMALLY CLOSED</p> <p>NORMALLY OPEN</p> <p>NOT IN CONTRACT</p> <p>NATIONAL PIPE THREAD</p> <p>NOT TO SCALE</p> <p>OUTSIDE AIR</p> <p>OPPOSED BLADE DAMPER</p> <p>OPEN ENDED DUCT</p> <p>PLUMBING FUTURE TAG</p> <p>PUMPED DISCHARGE</p> <p>PRE PURCHASED EQUIPMENT</p> <p>PRESSURE REDUCING STATION</p> <p>PRESSURE REDUCING VALVE</p> <p>RETURN AIR</p> <p>RETURN AIR</p> <p>RECOMMENDATION</p> <p>REGULAR</p> <p>RETURN FAN</p> <p>RETURN GRILLE</p> <p>REHEAT COIL</p> <p>ROOM</p> <p>REDUCED PRESSURE BRP</p> <p>RETURN REGISTER</p> <p>RELIEF VALVE</p> <p>SUPPLY AIR</p> <p>SHOCK ABSORBER OF PDI SIZE (") AS INDICATED</p> <p>SOLE</p> <p>SELF CONTAINED VALVE</p> <p>SMOKE DAMPER</p> <p>SUPPLY FAN</p> <p>SUPPLY GRILLE</p> <p>SINGLE SHEET</p> <p>SINK</p> <p>SPRINKLER</p> <p>SQUARE FEET</p> <p>SHUT OFF</p> <p>SUPPLY REGISTER</p> <p>STAINLESS STEEL</p> <p>TRANSFER GRILLE</p> <p>TOP OF DUCT</p>	<p>ALL GENERAL NOTES, SYMBOL LEGENDS, AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL 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.</p>

<p>DRAWING: PLUMBING & HVAC LEGEND & ABBREVIATIONS</p> <p>SHEET: P-000</p> <p>SCALE: AS NOTED</p> <p>CAD FILE: 03066P.DWG</p> <p>DATE: 02/18/2005</p>	<p>REVISIONS:</p>	<p>PROJECT: IRIS PARK APARTMENTS RENOVATION & ADDITIONS</p> <p>PORTLAND, MAINE 04101</p>	<p>OWNER: IRIS NETWORK</p> <p>PORTLAND, MAINE 40101</p>	<p>ENGINEERING: allied engineering, inc.</p> <p>Tel: 207-654-8000</p> <p>Fax: 207-654-8003</p> <p>Email: info@alliedeng.com</p>	<p>ARCHITECT: SEMPLE & DRANE ARCHITECTS</p> <p>496 CONGRESS STREET</p> <p>PORTLAND, MAINE 04101</p> <p>TEL: (207) 761-4231 FAX: 774-0152</p> <p>sda@sempledrane.com</p>
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