

PIPING SYMBOLS

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| UNION | ORIFICE FLOWMETER |
| FLANGE | FLEXIBLE PIPE CONNECTOR |
| PIPE ANCHOR | EXPANSION JOINT |
| PIPE GUIDE OR SLEEVES | CONCENTRIC REDUCER/INCREASER |
| PIPE ELBOW TURNED DOWN | ECCENTRIC REDUCER/INCREASER |
| PIPE ELBOW TURNED UP | HB HOSE BIBB |
| PIPING TEE-DOWN | WH WALL HYDRANT |
| PIPE TEE-UP | DIRECTION OF FLOW |
| PIPE RISER | PIRE DEPARTMENT CONNECTION |
| FLOOR CLEAN OUT | PUMP |
| WALL CLEAN OUT | WATER HAMMER SUPPRESSOR |
| PIPE FITCHES DOWN | HUMIDIFIER |
| FLOOR CLEAN OUT | DIFFERENTIAL PRESSURE TRANSMITTER |
| WALL CLEAN OUT | SPRINKLER HEAD |
| SEE SPECIFICATIONS FOR TYPE | GAS TURRET |
| GATE VALVE | MEDICAL OXYGEN OUTLET |
| BALL VALVE | MEDICAL VACUUM INLET |
| BUTTERFLY VALVE (MANUAL) | MEDICAL AIR OUTLET |
| 2-WAY CONTROL VALVE | NITROUS OXIDE OUTLET |
| 3-WAY CONTROL VALVE | NITROGEN OUTLET |
| BALANCING VALVE (CIRCUIT SETTER) | |
| CHECK VALVE | |
| PLUG VALVE | |
| GLOBE VALVE | |
| NEEDLE VALVE | |
| BACK FLOW PREVENTER | |
| SOLENOID VALVE | |
| VALVE WITH REDUCING OR REGULATING VALVE | |
| PRESSURE RELIEF VALVE | |
| STRAINER | |
| STRAINER W/BLOWDOWN | |
| PRESSURE SWITCH | |
| FLOW SWITCH | |
| PRESSURE GAUGE AND COCK | |
| THERMOMETER AND WELL | |
| TEMPERATURE & PRESSURE TAP (PETE'S PLUG) | |
| HOSE END DRAIN VALVE WITH CAP | |

ABBREVIATIONS

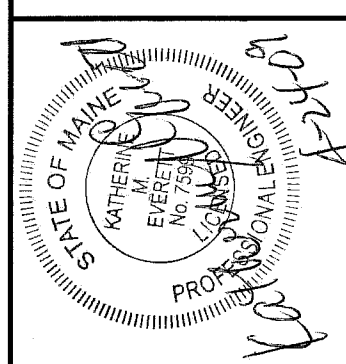
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|-----------------------------------|--|-------------------------------------|
| AW AUTOMATIC AIR VENT | ENC ENCLOSURE | PPE PURCHASED EQUIPMENT |
| AD ACCESS DOOR | (E) EXISTING | PRS PRESSURE REDUCING STATION |
| AFV ABOVE FINISHED FLOOR | EXIST. EXISTING | PRV PRESSURE REDUCING VALVE |
| AHU AIR HANDLING UNIT | FBO FURNISHED BY OWNER | (R) REMOVE |
| ATC AUTOMATIC TEMPERATURE CONTROL | FC FLEXIBLE CONNECTION | (REL.) RELOCATED |
| AV AIR VENT | FCC FLOOR CLEANOUT | RD ROOF DRAIN |
| BA BREATHING COMPRESSED AIR | FD-# FLOOR DRAIN TAG | RHC REHEAT COIL |
| BFP BACKFLOW PREVENTER | FG FIBERGLASS | RM ROOM |
| BLDG BUILDING | FRHB FREEZE RESISTANT HOSE BIBB | RPZ REDUCED PRESSURE ZONE BFP |
| BOD BOTTOM OF DUCT | FS FLOW SWITCH | RV RELIEF VALVE |
| BOP BOTTOM OF PIPE | GC GENERAL CONTRACTOR | SCV SELF CONTAINED VALVE |
| BTU BRITISH THERMAL UNIT | GPM GALLONS PER MINUTE | SS STAINLESS STEEL |
| CFF CAPPED FOR FUTURE | H HUMIDIFIER | TE TEMPERATURED ELEMENT (SENSOR) |
| CFH CUBIC FEET PER HOUR | HB HOSE BIB | TOP TOP OF PIPE |
| CLS CEILING | HRU HEAT RECOVERY UNIT | TTS TIGHT TO STEEL |
| CO CLEANOUT | HTR HEATER | TYP TYPICAL |
| CONT CONTINUATION | H & V HEATING AND VENTILATION | UIC UP IN CHASE |
| COORD COORDINATE | HVAC HEATING, VENTILATING AND AIR CONDITIONING | UV UP IN WALL |
| CT COOLING TOWER | HW HOT WATER | UV UNIT VENTILATOR |
| CTE CONNECT TO EXISTING | IX HEAT EXCHANGER | VB VACUUM BREAKER |
| CU COPPER | IN WG INCHES WATER GAUGE | VTR VENT THRU ROOF |
| CV CONTROL VALVE | MAU MAKE UP AIR UNIT | VCOFF VALVED AND CAPPED FOR FUTURE |
| CW COLD WATER | MAX MAXIMUM | VFD VARIABLE FREQUENCY DRIVE |
| CW-P CITY WATER-PROCESS | MBH 1000 BTU/HR. | VOC VOLATILE ORGANIC COMPOUNDS |
| DC DOUBLE CONTAINED | ME MECHANICAL ENGINEER | WAGD WASTE ANAESTHETIC GAS DISPOSAL |
| DDC DIRECT DIGITAL CONTROL | MFR MANUFACTURER | W/ WITH |
| DA DIAMETER | MIN MINIMUM | WCO WALL CLEANOUT |
| DC DOWN IN CHASE | MPV MULTI-PURPOSE VALVE | WH WALL HYDRANT |
| DIW DOWN IN WALL | MTD MOUNTED | |
| 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 POLY-PROPYLENE | |

PIPING SYSTEMS

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|-----------------------------|-------------------------------------|--|
| AV ACID VENT | W MEDICAL VACUUM | TEMP DOMESTIC HOT WATER (TEMP °F) |
| AD ACID DRAIN | N2P NON-PROCESS NITROGEN | TEMP DOMESTIC HOT WATER (TEMP °F) |
| AD ACID DRAIN (BELOW SLAB) | N2 NITROGEN | RECIRC. DOMESTIC HOT WATER (TEMP °F) |
| BA BREATHING AIR | NG NATURAL GAS | CW DOMESTIC COLD WATER |
| CD CONDENSATE DRAIN | HNG HIGH PRESSURE NATURAL GAS | HW DOMESTIC HOT WATER |
| CDA COMPRESSED DRY AIR | N2 NITROUS OXIDE | RECIRCULATED DOMESTIC HOT WATER |
| DB DISTRIBUTION VALVE BOX | NEG. SOLV. NEGATIVE SOLVENT DRAIN | S, W or KW SANITARY, W WASTE & KW KITCHEN WASTE |
| DIS DEIONIZED WATER SUPPLY | NPW NON POTABLE COLD WATER | S, W or KW SANITARY, W WASTE & KW KITCHEN WASTE (EXIST.) |
| DIR DEIONIZED WATER RETURN | O2 OXYGEN | S, W or KW SANITARY, W WASTE & KW KITCHEN WASTE (BELOW SLAB) |
| EKGD EKG DRAIN | OFFA OIL FREE COMPRESSED AIR | SD STORM DRAIN |
| ESW EYEWASH | POS. SOLV. POSITIVE SOLVENT DRAIN | SD STORM DRAIN (EXIST.) |
| GLY GLYCOL | PW POTABLE WATER | SD STORM DRAIN (BELOW SLAB) |
| GV GAS VENT | R RELIEF LINE | SD STORM DRAIN (BELOW SLAB-EXIST.) |
| H HYDROGEN | SLD MIXED SOLVENT DRAIN | V SANITARY VENT |
| H2O2 HYDROGEN PEROXIDE | SV SOLVENT | V SANITARY VENT (EXIST.) |
| HCV HOUSE CLEAN VACUUM | ISO PROP. ALCOHOL DRAIN | V SANITARY VENT (BELOW SLAB) |
| IAO ISOPROPYL ALCOHOL DRAIN | LP LIQUID PROPANE GAS | V SANITARY VENT (BELOW SLAB-EXIST.) |
| LHP LIQUID PROPANE GAS | WAGD WASTE ANAESTHETIC GAS DISPOSAL | |
| LP LIQUID PROPANE GAS | WA MEDICAL AIR | |
| MA MEDICAL AIR | | |

GENERAL NOTE
 1. ALL GENERAL NOTES, SYMBOL LISTS, AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL PLUMBING DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THESE DRAWINGS ARE TO BE INCORPORATED INTO THE DESIGN.

ISSUED FOR CONSTRUCTION
 4-24-09



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LEGEND AND ABBREVIATIONS

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