

### AIR DISTRIBUTION SYMBOLS

|  |   |
|--|---|
|  | RECTANGULAR DUCT (FIRST NUMBER IS SIDE SHOWN)<br>DIMENSIONS IN INCHES |
|  | 12" R<br>12 INCH ROUND DUCT   |
|  | M<br>MOTORIZED DAMPER   |
|  | F<br>FLEXIBLE DUCT  |
|  | FC<br>DUCT FLEXIBLE CONNECTOR (FC)                                    |
|  | DR<br>DUCT DROPS AND RISES IN DIRECTION OF AIR FLOW                   |
|  | RD<br>RETURN DUCT TURNED UP OR DOWN (DASHED)                          |
|  | SD<br>SUPPLY DUCT TURNED UP OR DOWN (DASHED)                          |
|  | ED<br>EXHAUST DUCT TURNED UP OR DOWN (DASHED)                         |
|  | DF<br>DUCT FITTING (DUCT DIM. FOR)                                    |
|  | RD<br>ROUND DUCT ELBOW DOWN   |
|  | RU<br>ROUND DUCT ELBOW UP   |
|  | S<br>SQUARE TO ROUND TRANSITION                                       |
|  | C<br>CAP (DUCT AND/OR PIPE)   |
|  | IR<br>INDICATES DUCT PIPING EQUIPMENT TO BE REMOVED.                  |
|  | EA<br>EXHAUST AIR   |
|  | RA<br>RETURN AIR  |
|  | SA<br>SUPPLY AIR  |
|  | V<br>VOLUME DAMPER  |
|  | F<br>FIRE DAMPER  |
|  | S<br>SMOKE DAMPER   |
|  | TAG NO.   |
|  | CS<br>COMBINATION SMOKE/FIRE DAMPER                                   |
|  | TAG NO.   |
|  | RE<br>RECTANGULAR ELBOW W/TURNING VANES                               |
|  | IF<br>DIRECTION OF AIR FLOW (IN)                                      |
|  | OF<br>DIRECTION OF AIR FLOW (OUT)                                     |
|  | H<br>HUMIDISTAT OR HUMIDITY SENSOR                                    |
|  | T<br>THERMOSTAT (T STAT) OR TEMP. SENSOR                              |
|  | SD<br>SMOKE DETECTOR  |
|  | DR<br>DIFFUSER, REGISTER OR GRILLE TAG                                |
|  | FT<br>FINNED TUBE TAG   |
|  | LE<br>LENGTH OF FINNED ELEMENT  |
|  | DN<br>DETAIL NO. WHERE DETAIL IS LOCATED                              |
|  | SN<br>SHEET NO. WHERE DETAIL IS LOCATED                               |
|  | EQ<br>EQUIPMENT TAG   |

### PIPING SYMBOLS

|  |   |
|--|---|
|  | ORIFICE FLOWMETER                       |
|  | FLEXIBLE PIPE CONNECTOR                 |
|  | EXPANSION JOINT                         |
|  | STEAM TRAP (FLOAT AND THERMOSTATIC)     |
|  | INDICATED THERMOSTATIC BUCKET           |
|  | CONCENTRIC REDUCER/INCREASER            |
|  | ECCENTRIC REDUCER/INCREASER             |
|  | DIRECTION OF FLOW                       |
|  | PUMP                                    |
|  | FINNED TUBE BASEBOARD                   |
|  | HUMIDIFIER                              |
|  | DIFFERENTIAL PRESSURE TRANSMITTER       |
|  | UNION                                   |
|  | FLANGE                                  |
|  | PIPE ANCHOR                             |
|  | PIPE GUIDE OR SLEEVES                   |
|  | PIPE ELBOW TURNED DOWN                  |
|  | PIPE ELBOW TURNED UP                    |
|  | PIPING TEE-DOWN                         |
|  | PIPE RISER                              |
|  | PIPE PITCHES DOWN                       |
|  | PIPE PITCHES UP                         |
|  | SPECIFICATIONS FOR TYPE                 |
|  | GATE VALVE                              |
|  | BALL VALVE                              |
|  | BUTTERFLY VALVE (MANUAL)                |
|  | 2-WAY CONTROL VALVE                     |
|  | 3-WAY CONTROL VALVE                     |
|  | BALANCING VALVE (CIRCUIT SETTER)        |
|  | CHECK VALVE                             |
|  | PLUG VALVE                              |
|  | GLOBE VALVE                             |
|  | NEEDLE VALVE                            |
|  | BACK FLOW PREVENTER                     |
|  | SOLENOID VALVE                          |
|  | PRESSURE REDUCING OR REGULATING VALVE   |
|  | PRESSURE RELIEF VALVE                   |
|  | STRAINER                                |
|  | STRAINER W/BLOWDOWN                     |
|  | MANUAL AIR VENT                         |
|  | AUTOMATIC AIR VENT                      |
|  | PRESSURE SWITCH                         |
|  | FLOW SWITCH                             |
|  | PRESSURE GAUGE AND COCK                 |
|  | THERMOMETER AND WELL                    |
|  | TEMPERATURE & PRESSURE TAP (PEE'S PLUG) |
|  | HOSE END DRAIN VALVE WITH CAP           |

### PIPING SYSTEMS

|  |     |                                 |
|--|-----|---------------------------------|
|  | HG  | HOT GAS                         |
|  | CD  | CONDENSATE DRAIN                |
|  | CWS | CHILLED WATER SUPPLY            |
|  | CWR | CHILLED WATER RETURN            |
|  | HWS | HOT WATER SUPPLY                |
|  | HWR | HOT WATER RETURN                |
|  | LPS | LOW PRESSURE STEAM              |
|  | FCS | FREE COOLING SUPPLY             |
|  | FCR | FREE COOLING RETURN             |
|  | FOS | FUEL OIL SUPPLY                 |
|  | FOR | FUEL OIL RETURN                 |
|  | FOV | FUEL OIL VENT                   |
|  | CCR | GRAVITY STEAM CONDENSATE RETURN |
|  | GLY | GLYCOL                          |
|  | HCR | HOT/ CHILLED WATER RETURN       |
|  | HCS | HOT/ CHILLED WATER SUPPLY       |
|  | RL  | REFRIGERANT LIQUID              |
|  | RS  | REFRIGERANT SUCTION             |
|  | TWS | TEMPERED CHILLED WATER SUPPLY   |
|  | TWR | TEMPERED CHILLED WATER RETURN   |
|  | ZB  | ZONE VALVE BOX                  |

### ABBREVIATIONS

|       |                               |       |   |        |                                 |
|-------|-------------------------------|-------|---|--------|---------------------------------|
| AAV   | AUTOMATIC AIR VENT            | ENC   | ENCLOSURE                                 | PSE    | PROCESS SOLVENT EXHAUST         |
| ACC   | AIR COOLED CONDENSER          | ER    | EXHAUST REGISTER                          | PP     | POLY-PROPYLENE                  |
| ACU   | AIR CONDITIONING UNIT         | (E)   | EXISTING                                  | PPE    | PRE PURCHASED EQUIPMENT         |
| AD    | ACCESS DOOR                   | EXST. | EXISTING                                  | PRS    | PRESSURE REDUCING STATION       |
| AE    | ACID EXHAUST                  | FBO   | FURNISHED BY OWNER                        | PRV    | PRESSURE REDUCING VALVE         |
| AF    | ABOVE FINISHED FLOOR          | FBP   | FACE AND BYPASS                           | PVD    | PNEUMATIC VOLUME DAMPER         |
| AFMS  | AIR FLOW MEASURING STATION    | FC    | FLEXIBLE CONNECTION                       | (R)    | REMOVE                          |
| AHU   | AIR HANDLING UNIT             | FD    | FIRE DAMPER                               | RA     | RETURN AIR                      |
| ATC   | AUTOMATIC TEMPERATURE CONTROL | FG    | FIBERGLASS                                | (REL.) | RELOCATED                       |
| AV    | AIR VENT                      | F & T | FLOAT AND THERMOSTATIC                    | RF     | RETURN FAN                      |
| BB    | BASEBOARD                     | FO    | FLAT OVAL                                 | RG     | RETURN GRILLE                   |
| BDD   | BACKDRAFT DAMPER              | FTR   | FINNED TUBE RADIATION                     | RHC    | REHEAT COIL                     |
| BC    | BLAST GATE                    | FS    | FLOW SWITCH                               | RM     | ROOM                            |
| BLDG  | BUILDING                      | GC    | GENERAL CONTRACTOR                        | RR     | RETURN REGISTER                 |
| BDD   | BOTTOM OF DUCT                | GPM   | GALLONS PER MINUTE                        | RY     | RELIEF VALVE                    |
| BOP   | BOTTOM OF PIPE                | H     | HUMIDIFIER                                | SA     | SUPPLY AIR                      |
| BTU   | BRITISH THERMAL UNIT          | HB    | HOSE BIB                                  | SCV    | SELF CONTAINED VALVE            |
| GBD   | COUNTER BALANCED DAMPER       | HRU   | HEAT RECOVERY UNIT                        | SD     | SMOKE DETECTOR                  |
| CD    | CEILING DIFFUSER              | HTR   | HEATER                                    | SF     | SUPPLY FAN                      |
| CFM   | CUBIC FEET PER MINUTE         | H & V | HEATING AND VENTILATION                   | SG     | SUPPLY GRILLE                   |
| CG    | CEILING                       | HVAC  | HEATING, VENTILATING AND AIR CONDITIONING | SR     | SUPPLY REGISTER                 |
| CONT  | CONTINUATION                  | HW    | HOT WATER                                 | SS     | STAINLESS STEEL                 |
| COORD | COORDINATE                    | HX    | HEAT EXCHANGER                            | TE     | TEMPERATURIZED ELEMENT (SENSOR) |
| CP    | CONDENSATE PUMP & RECEIVER    | IN WG | INCHES WATER GAUGE                        | TC     | TRANSFER GRILLE                 |
| CT    | COOLING TOWER                 | LD    | LINED DUCT                                | TOD    | TOP OF DUCT                     |
| CTE   | CONNECT TO EXISTING           | MAU   | MAKE UP AIR UNIT                          | TOP    | TOP OF PIPE                     |
| CV    | COPPER                        | MAX   | MAXIMUM                                   | TTS    | TIGHT TO STEEL                  |
| CUH   | CABINET UNIT HEATER           | MBH   | 1000 BTU/HR.                              | TV     | TURNING VANES(S)                |
| CV    | CONTROL VALVE                 | ME    | MECHANICAL ENGINEER                       | TYP    | TYPICAL                         |
| CW    | COLD WATER                    | MFR   | MANUFACTURER                              | UH     | UNIT HEATER                     |
| DC    | DOUBLE CONTAINED              | MIN   | MINIMUM                                   | UC     | UP IN CHASE                     |
| DDC   | DIRECT DIGITAL CONTROL        | MD    | MOTOR OPERATED DAMPER                     | UW     | UP IN WALL                      |
| DD    | DIAMETER                      | MPV   | MULTI-PURPOSE VALVE                       | UV     | UNIT VENTILATOR                 |
| DIC   | DOWN IN CHASE                 | MTD   | MOUNTED                                   | VAV    | VARIABLE AIR VOLUME BOX         |
| DIW   | DOWN IN WALL                  | MUA   | MAKE UP AIR                               | VB     | VACUUM BREAKER                  |
| DN    | DOWN                          | NFW   | NON-POTABLE WATER                         | VTR    | VENT THRU ROOF                  |
| DT    | DROP AND TRANSITION           | NTS   | NOT TO SCALE                              | VO     | MANUAL VOLUME DAMPER            |
| DWG   | DRAWING                       | OA    | OUTSIDE AIR                               | VCFF   | VALVED AND CAPPED FOR FUTURE    |
| DWH   | DOMESTIC WATER HEATER         | OBD   | OPPOSED BLADE DAMPER                      | VFD    | VARIABLE FREQUENCY DRIVE        |
| EA    | EXHAUST AIR                   | OED   | OPEN ENDED DUCT                           | VOC    | VOLATILE ORGANIC COMPOUNDS      |
| EF    | EXHAUST FAN                   | PAC   | PROCESS ACID EXHAUST                      | W/     | WITH                            |

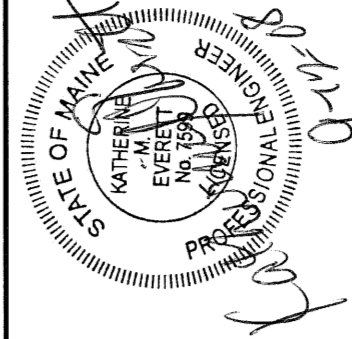
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LEGEND AND ABBREVIATIONS

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