AIR DISTRIBUTION SYMBOLS

- 12x16 — RECTANGULAR DUCT. (FIRST NUMBER IS SIDE SHOWN) DIMENSIONS IN INCHES
- 12"ø — 12 INCH ROUND DUCT
- MD — MOTORIZED DAMPER
- FLEXIBLE DUCT
- DUCT FLEXIBLE CONNECTOR (FC)
- D R — DUCT DROPS AND RISES IN DIRECTION OF AIR FLOW
- RETURN DUCT TURNED UP OR DOWN (DASHED)
- SUPPLY DUCT TURNED UP OR DOWN (DASHED)
- EXHAUST DUCT TURNED UP OR DOWN (DASHED)
- ACOUSTICAL LINING (DUCT DIM. FOR NET FREE AREA)
- ROUND DUCT ELBOW DOWN
- ROUND DUCT ELBOW UP
- SQUARE TO ROUND TRANSITION
- CAP (DUCT AND/OR PIPE)
- INDICATES DUCT, PIPING, EQUIPMENT TO BE REMOVED.
- EA — EXHAUST AIR
- RA — RETURN AIR
- SA — SUPPLY AIR
- VOLUME DAMPER
- FIRE DAMPER
- SD — SMOKE DAMPER; TAG NO.
- CFD — COMBINATION SMOKE/FIRE DAMPER; TAG NO.
- RECTANGULAR ELBOW W/TURNING VANES
- DIRECTION OF AIR FLOW (IN)
- DIRECTION OF AIR FLOW (OUT)
- H — HUMIDISTAT OR HUMIDITY SENSOR
- T — THERMOSTAT (T'STAT) OR TEMP. SENSOR
- SD — SMOKE DETECTOR
- S-3 / 300 / TYP. 3 — DIFFUSER, REGISTER OR GRILLE TAG; CFM AIR FLOW; QUANTITY
- FTR-2 / 20 — FINNED TUBE TAG; LENGTH OF FINNED ELEMENT
- A1 / M1401 — DETAIL NO.; SHEET NO. WHERE DETAIL IS LOCATED
- CUH / 2 — EQUIPMENT TAG; EQUIPMENT NO.
- LIMITS OF DEMOLITION
- CONNECT TO EXISTING

PIPING SYMBOLS

- UNION
- FLANGE
- PIPE ANCHOR
- PIPE GUIDE OR SLEEVES
- PIPE ELBOW TURNED DOWN
- PIPE ELBOW TURNED UP
- PIPING TEE-DOWN
- PIPING TEE-UP
- PIPE RISER
- PIPE PITCHES DOWN
- GENERIC VALVE, SEE 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
- S — SOLENOID VALVE
- P — PRESSURE REDUCING OR REGULATING VALVE
- PRESSURE RELIEF VALVE
- STRAINER
- STRAINER W/BLOWDOWN
- MANUAL AIR VENT
- AUTOMATIC AIR VENT
- PS — PRESSURE SWITCH
- FS — FLOW SWITCH
- PG — PRESSURE GAUGE AND COCK
- THERMOMETER AND WELL
- TEMPERATURE & PRESSURE TAP (PETE'S PLUG)
- HOSE END DRAIN VALVE WITH CAP
- ORIFICE FLOWMETER
- FLEXIBLE PIPE CONNECTOR
- EXPANSION JOINT
- F&T — STEAM TRAP (FLOAT AND THERMOSTATIC INDICATED T.T. THERMOSTAT, B.T. BUCKET TRAP, T.D. THERMODYNAMIC TRAP)
- CONCENTRIC REDUCER/INCREASER
- ECCENTRIC REDUCER/INCREASER
- DIRECTION OF FLOW
- PUMP
- FINNED TUBE BASEBOARD
- H — HUMIDIFIER
- DP — DIFFERENTIAL PRESSURE TRANSMITTER

ABBREVIATIONS

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

PIPING SYSTEMS

CD	CONDENSATE DRAIN
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
DB	DISTRIBUTION VALVE BOX
FCS	FREE COOLING SUPPLY
FCR	FREE COOLING RETURN
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FOV	FUEL OIL VENT
GCR	GRAVITY STEAM CONDENSATE RETURN
GLY	GLYCOL
HCR	HOT/ CHILLED WATER RETURN
HCS	HOT/ CHILLED WATER SUPPLY
HG	HOT GAS
HPS	HIGH PRESSURE STEAM
HPR	HIGH PRESSURE CONDENSATE RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
LPS	LOW PRESSURE STEAM
LPR	LOW PRESSURE RETURN
MPS	MEDIUM PRESSURE STEAM
MPR	MEDIUM PRESSURE RETURN
NPW	NON POTABLE COLD WATER
PCWR	PROCESS COOLING WATER RETURN
PC	PUMPED STEAM CONDENSATE
PD	PUMPED DISCHARGE
PW	POTABLE WATER
R	RELIEF LINE
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
TWS	TEMPERED CHILLED WATER SUPPLY
TWR	TEMPERED CHILLED WATER RETURN
ZB	ZONE VALVE BOX

GENERAL NOTE

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

REV.	DESCRIPTION	DATE
1	CONFORMED SET	4-21-15
0	ISSUED FOR CONSTRUCTION	3-3-15

CONFORMED SET
4-21-15

CURRENT ISSUE STATUS:

STATE OF MAINE
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HVAC LEGEND AND ABBREVIATIONS

SHEET TITLE:

SCALE:	NOT TO SCALE	DATE:	3-3-15
PROJECT MANAGER:	JLH	GRAPHIC SCALE:	0" 1"
JOB CAP/DRAWN:	CAH/KPB		
A/E OF RECORD:	CJM	SHEET No.	
SMRT CAD FILE:	M-001-14199	M-001	
PROJECT No.	14199-00		

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