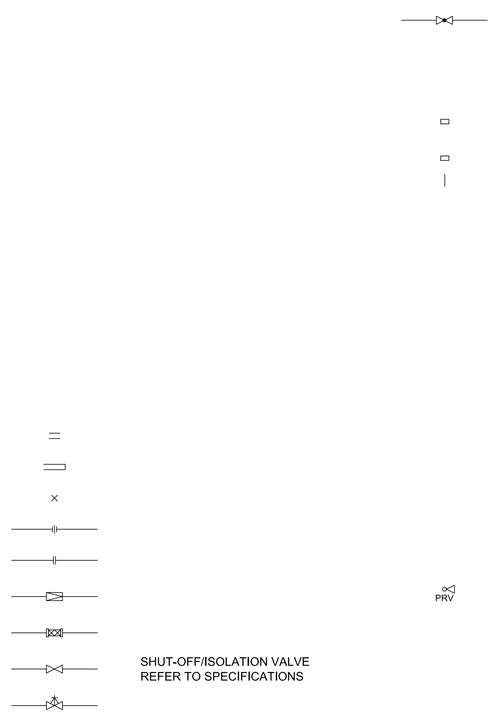

SHUT-OFF/ISOLATION VALVE
REFER TO SPECIFICATIONS

FUSIBLE LINK VALVE

FLOOR HYDRANT

HOSE BIBB

ROOF DRAIN

EXPANSION LOOP
(BRAIDED/MANUFACTURED)

FLOOR DRAIN

SHOCK ABSORBER
(WATER HAMMER ARRESTER)

FIRE DEPARTMENT CONNECTION

FREE STANDING FIRE
DEPARTMENT CONNECTION

WATER GONG

12x8S — DUCTWORK ~ FIRST DIMENSION IS SIDE SHOWN IN INCHES
S= SUPPLY, R= RETURN,
E= EXHAUST, OA= OUTSIDE AIR
F.O. = FLAT OVAL

ACCOUSTICAL LINING (DUCT DIMENSION FOR NET FREE AREA)

DUCTWORK TO BE REMOVED

SINGLE LINE DUCTWORK TO BE REMOVED

DUCT TRANSITION

SQUARE TO ROUND TRANSITION

FLEX DUCT ~ DOUBLE LINE

FLEX DUCT ~ SINGLE LINE

UP — CHANGE IN ELEVATION
(UP/DOWN, RISE OR DROP)

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)

VOLUME DAMPER

FD — FIRE DAMPER

SD — SMOKE DAMPER

FSD — FIRE AND SMOKE DAMPER

BDD — BACKDRAFT DAMPER

M — MOTORIZED DAMPER

FLEXIBLE CONNECTION

T — TEMPERATURE SENSOR OR
THERMOSTAT (AS SPECIFIED)

H — HUMIDISTAT OR HUMIDITY
SENSOR (AS SPECIFIED)

CO_2 — CARBON DIOXIDE SENSOR

CO — CARBON MONOXIDE SENSOR

AP — ACCESS PANEL

DSD — DUCT SMOKE DETECTOR

EF — ROOFTOP EXHAUST FAN

SF — ROOFTOP SUPPLY FAN

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

R, G & D TAG
DIFFUSER, REGISTER OR GRILLE No.
QUANTITY
CFM AIR FLOW

FINTUBE TAG
FINTUBE No.
LENGTH
GPM

VAV TAG
VAV No.
MINIMUM CFM
MAXIMUM CFM
GPM

EQUIPMENT TAG
TYPE DESIGNATOR
NUMBER

EQUIPMENT TAG (ON FLOOR/ROOF ABOVE)
TYPE DESIGNATOR
NUMBER

DETAIL No.
DETAIL REFERENCE SYMBOL
SHEET DETAIL LOCATED ON

SECTION No.
SECTION REFERENCE SYMBOL
SHEET SECTION LOCATED ON

VENT PIPE TAG

SANITARY PIPE TAG

DOMESTIC PIPE TAG

KEY NOTE

AW	ACID WASTE
ATV	AIR RELIEF
BBD	BOILER BLOWDOWN
C	CONDENSATE (HVAC DRAIN PAN)
C	CONDENSATE (HVAC DRAIN PAN - BELOW FLOOR)
CA	COMPRESSED AIR
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
—	DOMESTIC COLD WATER
—	DOMESTIC HOT WATER
—	DOMESTIC WATER RECIRC.
D	DRAIN
FM	PUMP FORCE MAIN
FOF	FUEL OIL FILL
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL TANK VENT
FW	FEEDWATER
GR	GLYCOL RETURN
GS	GLYCOL SUPPLY
H	HUMIDIFICATION LINE
H2	HYDROGEN GAS
HPWR	HEAT PUMP WATER RETURN
HPWS	HEAT PUMP WATER SUPPLY
HPC	HIGH-PRESSURE CONDENSATE
HPS	HIGH-PRESSURE STEAM
HTWR	HIGH-TEMP. HOT WATER RETURN
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
IND	INDUSTRIAL WASTE
IW	INDIRECT WASTE
LN	LIQUID NITROGEN
LOX	LIQUID OXYGEN
LPC	LOW-PRESSURE CONDENSATE
LP	LIQUID PETROLEUM GAS
LPR	LOW-PRESSURE CONDENSATE
LPS	LOW-PRESSURE STEAM
MA	MEDICAL AIR
MPR	MEDIUM-PRESSURE CONDENSATE
MPS	MEDIUM-PRESSURE STEAM
MU	MAKEUP WATER
N2	NITROGEN
NG	NATURAL GAS
NO	NITROUS OXIDE
NPW	NON-POTABLE WATER
OX	OXYGEN
PC	PUMPED CONDENSATE
PCWR	PROCESSED COLD WATER RETURN
PCWS	PROCESSED COLD WATER SUPPLY
RD	REFRIGERANT DISCHARGE
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RL	RAIN WATER ABOVE FLOOR
RL	RAIN WATER BELOW GRADE
	SANITARY SOIL WASTE (ABOVE FLOOR)
	SANITARY SOIL WASTE (BELOW FLOOR)
	SANITARY SOIL VENT (ABOVE FLOOR)
	SANITARY SOIL VENT (BELOW FLOOR)
SV	SANITARY WASTE & VENT COMBINATION
SP	SPRINKLER MAIN PIPING
SWR	SOLAR WATER RETURN
SWS	SOLAR WATER SUPPLY
TP	TRAP PRIMER PIPING ABOVE GRADE
TP	TRAP PRIMER PIPING BELOW GRADE
TWR	TEMPERED RETURN WATER
TWS	TEMPERED SUPPLY WATER
VAC	VACUUM (AIR)
VC	VACUUM CLEANING (HOUSE)
VPD	VACUUM PUMP DISCHARGE

AAV	AUTOMATIC AIR VENT
AC	ABOVE CEILING
ACC	AIR COOLED CONDENSER
ACU	AIR CONDITIONING UNIT
ADA	AMERICANS WITH DISABILITIES ACT
AD	ACCESS DOOR
AE	ACID EXHAUST
AW	ACID WASTE
AFF; A.F.F.	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
APPROX	APPROXIMATE; APPROXIMATELY
APMR	AS PER MFR'S RECOMMENDATIONS
ATC	AUTOMATIC TEMPERATURE CONTROL
AV	AIR VENT
BC	BALANCING COCK
BDD	BACKDRAFT DAMPER
BG	BLAST GATE
BF	BARRIER FREE
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
B.T.U.	BRITISH THERMAL UNIT
C; CONV.	CONVECTOR
CCW	COUNTER CLOCKWISE
CFF	CAPPED FOR FUTURE
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO	CLEANOUT
CM	CONSTRUCTION MANAGER
CNTR	COUNTER; COUNTERTOP
CONN	CONNECT; CONNECTION
CONT	CONTINUE; CONTINUATION
COORD	COORDINATE
CORR	CORRIDOR
CR	CHEMICAL RESISTING
CT	COOLING TOWER
CTE	CONNECT TO EXISTING
CTR	CENTER
CTRLN	CENTERLINE
CU	COPPER
CUH	CABINET UNIT HEATER
C.V.	CONTROL VALVE
CW	COLD WATER/CLOCKWISE
DB	DRY BULB TEMPERATURE, °F
DC	DOUBLE CONTAINED
DDC	DIRECT DIGITAL CONTROL
DET	DETAIL
DIA	DIAMETER
DIC	DOWN IN CHASE
DIW	DOWN IN WALL
DN	DOWN
DS	DOWNSPOUT
DT	DROP AND TRANSITION
DV	DRAIN VALVE
DWG	DRAWING
EA	EXHAUST AIR
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ELEV	ELEVATION
ELONG	ELONGATE
ENC	ENCLOSURE
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
(E)	EXISTING
F & T	FLOAT AND THERMOSTATIC
FBO	FURNISHED BY OTHERS
FBP	FACE AND BYPASS
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEANOUT
FD-#	FLOOR DRAIN TAG
FD	FIRE DAMPER
FIN	FINISH
FL	FLOOR
FTG	FOOTING
FTR	FINNED TUBE RADIATION
FS	FLOW SWITCH
FM	FORCE MAIN
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GV	GRAVITY VENTILATOR
H	HUMIDIFIER
HB	HOSE BIB
HC; HDC	HANDICAP ACCESS
HGT, HT.	HEIGHT
HP	HEAT PUMP
HRU	HEAT RECOVERY UNIT
HTR	HEATER
H & V	HEATING AND VENTILATION
HVAC	HEATING, VENTILATING, & AIR COND.
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
ID	INSIDE DIAMETER
IN WG	INCHES WATER GAUGE
INCL	INCLUDING
INV EL	INVERT ELEVATION
IPS	IRON PIPE SIZE
KE-#	KITCHEN EQUIPMENT NUMBER
LD	LINEAR DIFFUSER
LE-#	SCIENCE LAB EQUIPMENT NUMBER
LP	LIQUID PETROLEUM GAS
LPR	LOW PRESSURE STEAM RETURN
LPS	LOW PRESSURE STEAM SUPPLY
MAX	MAXIMUM
MBH	1000 BTU/HR.
MFR	MANUFACTURER
MIN	MINIMUM
MOD	MOTOR OPERATED DAMPER
MPG	MEDIUM PRESSURE GAS
MPV	MULTI-PURPOSE VALVE
MTD	MOUNTED
MTG	MOUNTING
MUA	MAKE UP AIR
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NIC	NOT IN CONTRACT
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
OED	OPEN ENDED DUCT
P-#	PLUMBING FIXTURE TAG
PD	PUMPED DISCHARGE
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
(R)	REMOVE
RA	RETURN AIR
RD	ROOF DRAIN
REC	RECOMMENDATION
REG	REGULAR
RF	RETURN FAN
RG	RETURN GRILLE
RHC	REHEAT COIL
RM	ROOM
RPZ	REDUCED PRESSURE BFP
RR	RETURN REGISTER
RV	RELIEF VALVE
RL	RAIN WATER
S	SUPPLY AIR
SA-* *	SHOCK ABSORBER OF PDI SIZE (* *) AS INDICATED
SCV	SELF CONTAINED VALVE
SD	SMOKE DAMPER
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SGL	SINGLE
SHT	SHEET
SPKL	SPRINKLER
SQ FT; S. F.	SQUARE FEET
SR	SUPPLY REGISTER
S/O	SHUT OFF
S.S.	STAINLESS STEEL
TD	TRENCH DRAIN
TG	TRANSFER GRILLE
TOD	TOP OF DUCT
TP	TRAP PRIMER
TSP	TOTAL STATIC PRESSURE
TTS	TIGHT TO STEEL
TV	TURNING VANE
TW	TEMPERED WATER
TYP	TYPICAL
UH	UNIT HEATER
UIC	UP IN CHASE
UIW	UP IN WALL
UV	UNIT VENTILATOR
V	VENT
VAC	VACUUM
VB	VACUUM BREAKER
VCFF	VALVE & CAP FOR FUTURE
VD	VOLUME DAMPER - MANUAL
VLV	VALVE
VS	VENT STACK
VTR	VENT THROUGH ROOF
W	WASTE
W/	WITH
WB	WET BULB TEMPERATURE, °F
WCO	WALL CLEANOUT
WH	WATER HEATER
WHYD	WALL HYDRANT
NTS	NOT TO SCALE
Ø	DIAMETER
@	AT
&	AND
%	PERCENT

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.

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REGISTERED
PROFESSIONAL ENGINEER

PROJECT
Portland Public Library Renovation
PORTLAND, ME

TITLE
PLUMBING AND HVAC NOTES, LEGENDS AND ABBREVIATIONS

STATUS:
Issued for Bidding

DATE: 02-13-2009
REVISION /DATE:
SCALE: As Noted
PROJECT NO. 2008-0030
DRAWN BY: REW

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DWG NO.
P-000

E3 | SYMBOLS LEGEND
NONE

A1 | -
-

A3 | PIPING LINETYPE LEGEND
NONE

A4 | ABBREVIATIONS
NONE

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