AIR DISTRIBUTION SYMBOLS

- 12x16 — RECTANGULAR DUCT, (FIRST NUMBER IS SIDE SHOWN) DIMENSIONS IN INCHES
- 12"Ø — 12 INCH ROUND DUCT
- SHADE INDICATES NO AIR DISTRIBUTION IN THIS DIRECTION — CEILING DIFFUSER (3-WAY SHOWN)
- 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)
- EA — EXHAUST AIR
- RA — RETURN AIR
- SA — SUPPLY AIR
- VOLUME DAMPER
- F — FIRE DAMPER
- S — SMOKE DAMPER
- C — COMBINATION SMOKE/FIRE DAMPER
- RECTANGULAR ELBOW W/TURNING VANES
- DIRECTION OF AIR FLOW (IN)
- DIRECTION OF AIR FLOW (OUT)
- S-3 — IDENTIFICATION # (SEE SCHEDULE) S=SUPPLY, R=RETURN, E=EXHAUST T=TRANSFER — DIFFUSER, REGISTER OR GRILLE TAG
- 300 — CFM AIR FLOW
- TYP. 3 — QUANTITY
- VAV-A-S — EQUIPMENT ABBREVIATION; TERMINAL UNIT SIZE (SEE SCHEDULE) (S=SUPPLY, R=RETURN); EQUIPMENT TAG (VAV TERMINAL BOX)
- 500/125 — CFM (HIGH/LOW)

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
- SOLENOID VALVE
- PRESSURE REDUCING OR REGULATING VALVE
- PRESSURE RELIEF VALVE
- PIPE ELBOW-DOWN WITH 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
- FT-1 — FINNED TUBE TAG
- 10'-0" — LENGTH OF FINNED ELEMENT
- 0.5 — FLOW (GPM)
- VAV-A-S — EQUIPMENT ABBREVIATION TERMINAL UNIT SIZE (SEE SCHEDULE) (S=SUPPLY, R=RETURN); EQUIPMENT TAG (VAV TERMINAL BOX)
- 0.5 GPM — GPM FLOW

GENERAL SYMBOLS

- INDICATES DUCT, PIPING, EQUIPMENT TO BE REMOVED.
- LIMITS OF DEMOLITION
- CONNECT TO EXISTING
- EF-1 — EQUIPMENT ABBREVIATION (EF=EXHAUST FAN); EQUIPMENT NO.; EQUIPMENT TAG
- A1 / M-401 — DETAIL NO.; SHEET NO. WHERE DETAIL IS LOCATED
- H — HUMIDIFIER
- DP — DIFFERENTIAL PRESSURE TRANSMITTER
- C — CARBON MONOXIDE SENSOR
- CO2 — CARBON DIOXIDE SENSOR
- H — HUMIDISTAT OR HUMIDITY SENSOR
- SD — SMOKE DETECTOR
- SP — STATIC PRESSURE SENSOR
- T — THERMOSTAT (T'STAT) OR TEMP. SENSOR

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

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.

PIPING SYSTEMS

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

CITY OF PORTLAND, MAINE — RESURGAM

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 02/09/18

REV	DESCRIPTION	DATE
0	ISSUED FOR CONSTRUCTION	12-21-17

ISSUED FOR CONSTRUCTION
12-21-17
CURRENT ISSUE STATUS:

STATE OF MAINE — KERRY D. DINEEN 13301 — PROFESSIONAL ENGINEER — 12-21-17

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MECHANICAL LEGEND
AND ABBREVIATIONS

SHEET TITLE:

0 1/4" 1/2" 1" 2" 3"

SCALE: AS NOTED

PROJECT MANAGER:	RSC	PROJECT NO:	17123
A/E OF RECORD:	KDD		
JOB CAPTAIN:	SDL		
DRAWN BY:	CWF		
SMRT FILE:	M-001-17123	SHEET No.	M-001

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