LINE DESIGNATIONS

BBD	BOILER BLOWDOWN	LPC	LOW PRESSURE CONDENSATE
BFW	BOILER FEEDWATER	LPS	LOW PRESSURE STEAM (0–15 PSIG)
CD	CONDENSATE DRAIN	NG	GAS
CF	CHEMICAL FEED	MPC	MEDIUM PRESSURE CONDENSATE
CHWR	CHILLED WATER RETURN	MPS	MEDIUM PRESSURE STEAM (16–50 PSIG)
CHWS	CHILLED WATER SUPPLY	MW	MAKE UP WATER
CWR	CONDENSER WATER RETURN	PC	PUMPED CONDENSATE
CWS	CONDENSER WATER SUPPLY	PCHWR	PRIMARY CHILLED WATER RETURN
D	DRAIN	PCHWS	PRIMARY CHILLED WATER SUPPLY
DCW	DOMESTIC COLD WATER	PCWS	PROCESS COOLING WATER SUPPLY
DTWR	DUAL TEMPERATURE WATER RETURN	PCWR	PROCESS COOLING WATER RETURN
DTWS	DUAL TEMPERATURE WATER SUPPLY	RD	REFRIGERANT DISCHARGE
FOG	FUEL OIL GAUGE	RL	REFRIGERANT LIQUID
FOR	FUEL OIL RETURN	RS	REFRIGERANT SUCTION
FOS	FUEL OIL SUPPLY/SUCTION	RV	REFRIGERANT VENT
FOV	FUEL OIL VENT	SCHWR	SECONDARY CHILLED WATER RETURN
HPC	HIGH PRESSURE CONDENSATE	SCHWS	SECONDARY CHILLED WATER SUPPLY
HPS	HIGH PRESSURE STEAM (51 PSIG & UP)	SW	SOFTENED WATER SUPPLY
HWR	HEATING HOT WATER RETURN	V	VENT
HWS	HEATING HOT WATER SUPPLY	[LINE] (G)	PIPING W/GLYCOL

SERVICE COORDINATION SYMBOLS

(NOT ALL SERVICE CONNECTIONS MAY BE SHOWN ON PLANS)

X	POINT OF PLUMBING SERVICE CONNECTION (SEE PLUMBING DRAWINGS)
D	DRAIN CONNECTION
LP	LIQUID PROPANE CONNECTION
NG	NATURAL GAS CONNECTION
OIL	OIL CONNECTION
SW	SOFTENED WATER CONNECTION
V	VENT CONNECTION
EQ 1	EQUIPMENT DESIGNATION (SEE ELECTRICAL DRAWINGS)
FSD	COMBINATION FIRE/SMOKE DAMPER (SEE ELECTRICAL DRAWINGS)
SD	SMOKE DAMPER (SEE ELECTRICAL DRAWINGS)
SD	SMOKE DETECTOR (SEE ELECTRICAL DRAWINGS)

GENERAL SYMBOLS

- POINT OF CONNECTION NEW–TO–EXISTING
- EXTENT OF DEMOLITION TO–EXISTING WORK TO REMAIN
- PREPURCHASED EQUIPMENT
- DRAWING DISCIPLINE
- DRAWING NUMBER WHERE SECTION IS DRAWN
- MATCHLINE
- EXISTING WORK TO BE REMOVED
- EXISTING WORK TO REMAIN
- BREAK LINE (DOUBLE LINE DUCTWORK)
- BREAK LINE (DOUBLE LINE PIPING)
- FLOW ARROW
- LEADER ARROWHEAD
- EQUIPXXX — EQUIPMENT DESIGNATIONS, NO ELEC SERVICE REQ (REFER TO SCHEDULES AND/OR SPECS)
- EQ 1 — EQUIPMENT DESIGNATIONS, ELEC SERVICE REQ (REFER TO SCHEDULES AND/OR SPECS)
- BREAK LINE (SINGLE LINE)
- ℄ CENTERLINE
- ø DIAMETER
- OVAL

ABBREVIATIONS

(D)	DEMOLISH
(E)	EXISTING
(F)	REFURBISH
(M)	PROVIDED BY MANUFACTURER
(N)	NEW
(R)	RELOCATE
AC	AIR CONDITIONING UNIT
ACC	AIR COOLED CONDENSER
ACCU	AIR COOLED CONDENSING UNIT
ACFM	ACTUAL CUBIC FEET PER MINUTE
AD	ACCESS DOOR
AF	AIRFOIL
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AL	ACOUSTICAL LINING
AMB	AMBIENT
AMS	AIR FLOW MEASURING STATION
AO	ANALOG OUTPUT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARCH	ARCHITECTURAL
AS	AIR SEPARATOR
ASC	APPLICATION SPECIFIC CONTROLLER
ATC	AUTOMATIC TEMPERATURE CONTROL
AVG	AVERAGE
AWT	AVERAGE WATER TEMPERATURE
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BDD	BACKDRAFT DAMPER
BDS	BLOWDOWN SEPARATOR
BFP	BACK FLOW PREVENTER OR BOILER FEED PUMP
BFU	BOILER FEED UNIT
BHP	BRAKE HORSEPOWER OR BOILER HORSEPOWER
BI	BACKWARD INCLINED OR BINARY INPUT
BLD	BUILDING
BO	BINARY OUTPUT
BOD	BOTTOM OF DUCT OR BASIS OF DESIGN
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BT	BLOWDOWN TANK
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
C	CONVECTOR
CAV	CONSTANT AIR VOLUME
CB	CONCRETE BASE
CC	COOLING COIL
CCO	CAPPED CURB OPENING
CD	CEILING DIFFUSER
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CL	COOLING
CLG	CEILING
CMPR	COMPRESSOR
CO	CLEAN OUT
COL	COLUMN
CONC	CONCENTRATION OR CONCRETE
COND	CONDENSATE (STEAM OR COOLING COIL)
CONN	CONNECTION
CONT	CONTINUATION
CP	CONDENSATE PUMP
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	COEFFICIENT OF CAPACITY
D	DROP
DA	DEAERATOR
DB	DRY BULB
DC	DRY COOLER
DDC	DIRECT DIGITAL CONTROL
DEFL	DEFLECTION
DET	DETAIL
DIA	DIAMETER
DISC	DISCONNECT
DISCH	DISCHARGE
DI	DIGITAL INPUT
DN	DOWN
DO	DIGITAL OUTPUT
DR	DRAIN
DS	DISCONNECT SWITCH
DWG	DRAWING
EA	EXHAUST AIR OR EACH
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECH	ELECTRIC CEILING HEATER
EDB	ENTERING DRY BULB TEMPERATURE
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE
EJ	EXPANSION JOINT
ELEC	ELECTRIC
ELEV	ELEVATION
EMER	EMERGENCY
ENT	ENTERING
ER	EXHAUST REGISTER
ERAD	ELECTRIC RADIATION
ERC	EXHAUST ENERGY RECOVERY COIL
ERU	ENERGY RECOVERY UNIT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EVC	EVAPORATIVE COOLER
EWB	ENTERING WET BULB TEMPERATURE
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXIST	EXISTING
EXT	EXTERNAL
F	FILTER
F&T	FLOAT AND THERMOSTATIC STEAM TRAP
FA	FACE AREA OR FROM ABOVE
FAS	FIRE ALARM SYSTEM
FB	FROM BELOW
FCU	FAN COIL UNIT
FD	FIRE DAMPER OR FLOOR DRAIN
FIN	FINAL
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FLTR	FILTER
FM	FLOW METERING DEVICE
FO	FUEL OIL
FOB	FLAT ON BOTTOM
FOF	FUEL OIL FILL
FOO	FUEL OIL OVERFLOW
FOP	FUEL OIL PUMP
FOS	FUEL OIL SUPPLY
FOT	FLAT ON TOP
FPB	FAN POWERED BOX
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FLASH TANK OR FOOT OR FEET
FTR	FINNED TUBE RADIATION
FUT	FUTURE
FXC	FLEXIBLE CONNECTION
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRILLE
GRV	GRAVITY ROOF VENT
GV	GRAVITY VENT
H	HUMIDIFIER
HAV	HEAT ACTUATED SHUTOFF VALVE
HC	HEATING COIL
HG	MERCURY
HO	HUB OUTLET
HOA	HAND OFF AUTO
HP	HORSEPOWER
HTG	HEATING
HV	HEATING & VENTILATING UNIT
HWG	HOT WATER GENERATOR
HX	HEAT EXCHANGER
ID	INSIDE DIAMETER
IN	INCHES
INT	INITIAL
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LD	LINEAR DIFFUSER
LDB	LEAVING DRY BULB TEMPERATURE
LF	LINEAR FOOT
LG	LINEAR GRILLE
LOC	LOCATION
LMH	LOW MEDIUM HIGH STARTING SWITCH
LP	PROPANE
LRA	LOCKED ROTOR AMPS
LVG	LEAVING
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBC	MODULAR BUILDING CONTROLLER
MBH	1000 BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM OR MINUTE
MOCP	MAXIMUM OVER–CURRENT PROTECTION
MOD	MOTOR OPERATED DAMPER
MODU	MODULATING
MS	MOTOR STARTER
MXB	MIXING BOX
N	NEW
NC	NORMALLY CLOSED
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN OR NUMBER
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAE	OUTSIDE AIR ENTHALPY
OAH	OUTSIDE AIR HUMIDITY
OAI	OUTSIDE AIR INTAKE
OAT	OUTSIDE AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OED	OPEN ENDED DUCT
OEM	ORIGINAL EQUIPMENT MANUFACTURER
OPER	OPERATING
OPNG	OPENING
P	PUMP
PBD	PARALLEL BLADE DAMPER
PC	PUMPED CONDENSATE
PD	PRESSURE DROP
PHC	PREHEAT COIL
PLN	PLENUM
POS	POSITION
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH– ABSOLUTE
PSIG	POUNDS PER SQUARE INCH– GAUGE
QUAN	QUANTITY
R	RISE
RA	RETURN OR RELIEF AIR
RAE	RETURN AIR ENTHALPY
RAH	RETURN AIR HUMIDITY
RAT	RETURN AIR TEMPERATURE
RCP	RADIANT CEILING PANEL
REQ	REQUIRED
RET	RETURN
REV	REVISION
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELIEF HOOD OR RELATIVE HUMIDITY
RHC	REHEAT COIL
RHW	ROTARY HEAT WHEEL
RLA	RUN LOAD AMPS
RM	ROOM
RP	RECIRCULATION PUMP
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RTU	ROOFTOP UNIT
RV	RELIEF VALVE
SA	SUPPLY AIR
SB	STRUCTURAL BASE
SCU	SELF CONTAINED UNIT
SD	SMOKE DAMPER OR DETECTOR
SEC	SECOND
SEER	EFFICIENCY RATING
SENS	SENSIBLE
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SI	SPRING HANGER
SO	SCREENED OPENING
SP	STATIC PRESSURE IN WG
SPD	STEAM PRESSURE DROP
SR	SUPPLY REGISTER
SRC	SUPPLY ENERGY RECOVERY COIL
SRV	SAFETY RELIEF VALVE
SSF	SIDE–STREAM FILTER
ST	SOUND ATTENUATOR
STBY	STANDBY
STM	STEAM
SUP	SUPPLY
SUT	SURGE TANK
TA	TRANSFER AIR
TAD	TRANSFER AIR DUCT
TEC	TERMINAL EQUIPMENT CONTROLLER
TG	TRANSFER GRILLE
TOD	TOP OF DUCT
TOP	TOP OF PIPE
TOT	TOTAL
TP	TRANSFER PUMP
TSP	TOTAL STATIC PRESSURE
TTS	TIGHT TO STRUCTURE
TYP	TYPICAL
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VIB	VIBRATION
VIV	VARIABLE INLET VALVES
VTR	VENT THROUGH ROOF
W/	WITH
W/O	WITHOUT
WB	WET BULB
WCU	WATER COOLED CONDENSING UNIT
WG	WATER GAUGE
WHP	WATER SOURCE HEAT PUMP
WMS	WIRE MESH SCREEN
WPD	WATER PRESSURE DROP

PIPE SYMBOLS

(SEE DETAILS FOR ADDITIONAL INFORMATION)

- BACK FLOW PREVENTOR ASSEMBLY
- DUPLEX STRAINER
- FIXED ORIFICE FLOW ELEMENT
- FLANGED SPOOL PIECE
- FLEXIBLE PIPING CONNECTOR
- FLOW CONTROL DEVICE
- FM — FLOW METER (GAL)
- PIPE ANCHOR
- PIPE GUIDE
- PIPE CAP, DUCT CAP, OR BLIND FLANGE
- PIPE RISER UP AND DOWN OR PIPE RISER UP
- PIPE ELBOW DOWN OR BRANCH OFF TOP OF PIPE
- PIPE BRANCH CONNECTION OFF BOTTOM OF PIPE
- PRESSURE GAUGE W/ SNUBBER AND NEEDLE VALVE
- PRESSURE GAUGE W/ SIPHON AND NEEDLE VALVE
- CAPPED PRESSURE GAUGE TAP W/ NEEDLE VALVE
- P/T — PRESSURE/TEMPERATURE TEST PLUG
- PUMP (DIAGRAMMATIC)
- PSD — PUMP SUCTION DIFFUSER
- REDUCER OR INCREASER, CONCENTRIC
- REDUCER OR INCREASER, ECCENTRIC STRAIGHT CROWN OR INVERT AS SHOWN
- AIR PURGER
- STEAM TRAP ASSEMBLY, SEE DETAIL
- THERMOMETER
- UNION OR PAIR OF FLANGES
- V — VACUUM BREAKER
- A — AUTOMATIC AIR VENT W/ SHUTOFF VALVE AND CAP * = HIGH CAPACITY
- M — 1/2" MANUAL AIR VENT
- 2 WAY CONTROL VALVE
- 3 WAY CONTROL VALVE
- 2 WAY CONTROL VALVE STATION
- 3 WAY CONTROL VALVE STATION
- BALANCING VALVE
- BOILER QUICK OPEN BLOWDOWN VALVE
- CHECK VALVE
- GLOBE VALVE
- D — DRAIN VALVE W/ CAPPED HOSE END
- LOCK SHIELD SHUTOFF VALVE
- NEEDLE VALVE
- PRESSURE REDUCING VALVE
- SAFETY RELIEF VALVE
- SAFETY RELIEF VALVE W/ DRIP PAN ELBOW;
- SHUTOFF VALVE
- H — HEAT ACTUATED SHUTOFF VALVE
- SOLENOID VALVE
- STOP CHECK VALVE
- Y–TYPE STRAINER
- Y–TYPE STRAINER W/ TAPPING SIZE
- SHUTOFF VALVE TO 1" W/ CAPPED HOSE END OR NIPPLE
- PIPE PITCHING DOWNWARD 1/8 INCH PER FT IN DIRECTION OF ARROW

INSULATION ABBREVIATIONS

(SEE SPECIFICATIONS FOR PRODUCT DESCRIPTIONS)

A	FIBERGLASS PIPE INSULATION	W	FLEXIBLE FIBERGLASS WRAP
B	RIGID FIBERGLASS BOARD	H	SEMI–RIGID FIBERGLASS BOARD
L	FLEXIBLE FIBERGLASS DUCT LINER	F	FLEXIBLE FOAM ELASTOMERIC SHEET

NOTE: ALL CONTROL DEVICES AND CONTROL POINTS SHOWN ON CONTROL DIAGRAMS ARE THE RESPONSIBILITY OF THE CONTROL CONTRACTOR UNLESS OTHERWISE NOTED.

CONTROL SYMBOLS

(COORDINATE FINAL ROOM DEVICE LOCATIONS WITH ARCHITECT)

- AMS — AIR MEASURING STATION
- CO — CARBON MONOXIDE SENSOR & TRANSMITTER
- CO2 — CARBON DIOXIDE SENSOR & TRANSMITTER
- CS — CURRENT SENSOR
- CT — CURRENT SENSOR & TRANSMITTER
- DPT — DIFFERENTIAL PRESSURE SENSOR & TRANSMITTER
- DPS — DIFFERENTIAL PRESSURE SWITCH
- EP — ELECTRIC TO PNEUMATIC SWITCH
- ES — END SWITCH
- FS — FLOW SWITCH
- FMT — FLOW METER & TRANSMITTER
- FRT — FLOW RATE METER & TRANSMITTER
- FZ — FREEZE STAT
- HOA — HAND OFF AUTO
- HT — HUMIDITY SENSOR & TRANSMITTER
- HS — HUMIDITY SWITCH
- H — HUMIDISTAT
- LV — LINE VOLTAGE STAT
- LDP — LOCAL DISPLAY PANEL
- LED — INDICATING TRANSMITTER
- M — MAIN AIR
- MS — MOTOR STARTER
- PS — PRESSURE SWITCH
- PT — PRESSURE SENSOR & TRANSMITTER
- PDS — PRESSURE DIFFERENTIAL SWITCH
- PDT — PRESSURE DIFFERENTIAL SENSOR & TRANSMITTER
- RTD — ROOM TEMPERATURE SENSOR & TRANSMITTER
- RE — RELAY
- S — SWITCH
- SD — SMOKE DETECTOR
- SPS — STATIC PRESSURE SWITCH
- SPT — STATIC PRESSURE TRANSMITTER
- T — THEMOSTAT OR TEMP SENSOR & SELECTOR DEVICE
- TH — THERMISTOR
- TL — THERMOSTAT – LINE VOLTAGE
- TT — SINGLE POINT TEMP SENSOR & TRANSMITTER
- TT — AVERAGING TEMP SENSOR & TRANSMITTER
- 2 WAY CONTROL VALVE – EQUAL %
- 2 WAY CONTROL VALVE – LINEAR
- 3 WAY CONTROL VALVE
- ARROW INDICATES NORMALLY CLOSED
- ARROW INDICATES NORMALLY OPEN
- M — PILOT POSITIONER
- S — SOLENOID VALVE
- MAGNEHELIC GAUGE
- P — PHOTOHELIC GAUGE
- H P L — PHOTOHELIC GAUGE / MANUAL RESET (H–L INDICATES A HIGH–LOW DUAL SWITCH)
- COM — OPEN PROTOCOL INTERFACE, – BACNET
- M — MOTOR ACTUATOR
- PNEUMATIC ACTUATOR
- EP — AIR FROM ELECTRIC TO PNEUMATIC SWITCH #1
- PARALLEL BLADE DAMPER
- OPPOSED BLADE DAMPER
- SD — SMOKE DAMPER
- A — HARD WIRED INTERLOCK, BY ATC CONTRACTOR
- A — HARD WIRED INTERLOCK, BY DIVISION 16
- NAME — CONTROL PANEL (MBC, ASC, VFD,...)
- AO — BAS CONTROL POINT
- AO — LOCAL/OEM CONTROL POINT

AO	ANALOG OUTPUT	BO	BINARY OUTPUT
DO	DIGITAL OUTPUT	X	FACTORY INPUT
AI	ANALOG INPUT	BI	BINARY OUTPUT
DI	DIGITAL INPUT	FO	FLOATING OUTPUT

DRAWING LOG

SHOP DRAWINGS: CONTRACTORS SHALL PROVIDE SHOP DRAWINGS FOR ALL SPECIFIED EQUIPMENT. CONTRACTOR SHALL PROVIDE COORDINATED SHOP DRAWINGS FOR PIPING AND SHEETMETAL, SHOWING COORDINATION WITH OTHER DISCIPLINES. NO EQUIPMENT, PIPING OR DUCTWORK SHALL BE INSTALLED WITHOUT AN APPROVED SHOP DRAWING. WORK OR EQUIPMENT INSTALLED WITHOUT ENGINEER'S APPROVAL WILL BE SUBJECT TO REMOVAL AND REWORK PER THE ENGINEERS SOLE DISCRETION REGARDLESS OF DESIGN DOCUMENTS. ALL COST WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTORS SHALL ALLOW TEN (10) BUSINESS DAYS FOR ENGINEERS REVIEW. ALL WORK SHALL BE INSTALLED PER THE APPROVED SHOP DRAWING. FIELD MODIFICATIONS TO THE APPROVED SHOP DRAWING SHALL BE SUBMITTED FOR ENGINEER APPROVAL PRIOR TO INSTALLATION.

		2014–12–01 REVIEW ISSUE	2015–01–26 STATE APPROVALS	2015–03–20 BLDG. DEPT. REVIEW								
M–0	MECHANICAL COVER SHEET	●	●	●								
M–1	MECHANICAL DEMOLITION AND NEW WORK – DUCTWORK	●	●	●								
M–2	MECHANICAL DEMOLITION – DUCTWORK	●	●	●								
M–3	MECHANICAL NEW WORK – DUCTWORK	●	●	●								
M–4	MECHANICAL DEMOLITION – PIPING	●	●	●								
M–5	MECHANICAL NEW WORK – PIPING	●	●	●								
M–6	MECHANICAL NEW WORK – THIRD FLOOR AND SCHEDULES	●	●	●								
M–7	MECHANICAL DETAILS	●	●	●								
M–8	MECHANICAL SPECIFICATIONS	●	●	●								
M–9	MECHANICAL SPECIFICATIONS AND CONTROLS	●	●	●								
–	–											
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–	–											
–	–											

DUCT SYMBOLS

- SA — SUPPLY AIR DUCT
- RA — RETURN AIR DUCT
- R — DUCT RISE
- W x H or Dø — DUCTWORK SIZE (INSIDE CLEAR DIMENSION IN INCHES)
- U — UNDERCUT DOOR (COORDINATE W/ARCHITECT)
- L — DOOR LOUVER (COORDINATE W/ARCHITECT)
- H — HUMIDIFIER
- FSD — COMBINATION FIRE/SMOKE DAMPER W/ACCESS DOOR AND SMOKE DETECTOR
- SD — SMOKE DAMPER W/ACCESS DOOR AND SMOKE DETECTOR
- MOD — MOTOR OPERATED DAMPER W/ACCESS DOOR
- BDD — GRAVITY BACKDRAFT DAMPER W/ACCESS DOOR
- AMS–XXX — AIR MEASURING STATION W/ACCESS DOOR
- TA — TRANSFER AIR DUCT
- EA — EXHAUST AIR DUCT
- D — DUCT DROP
- FD — FIRE DAMPER W/ACCESS DOOR
- VD — MANUAL VOLUME DAMPER W/ACCESS DOOR
- RHC–XXX — DUCT–MOUNTED REHEAT COIL W/ACCESS DOOR
- SPS — STATIC PRESSURE STATION W/ACCESS DOOR
- TRANSITION
- 10" 6" — TEE: PROPORTIONAL SPLIT OR EQUAL SPLIT. ABOVE 8": SQUARE ELBOWS w/TURNING VANES 8" AND BELOW: RADIUS ELBOWS
- D R — ELBOW (UNVANED MITERED NOT PERMITTED): ABOVE 8": SQUARE ELBOWS w/TURNING VANES 8" AND BELOW: RADIUS ELBOWS (R=1.5 x D)
- 10" — WYE: PROPORTIONAL SPLIT OR EQUAL SPLIT. ABOVE 8": SQUARE ELBOWS w/TURNING VANES 8" AND BELOW: RADIUS ELBOWS
- ø" — ROUND BRANCH TAKE–OFF w/SPIN FITTING
- BRANCH TAKE–OFF w/HEEL
- ø" — ROUND BRANCH TAKE–OFF w/BELLMOUTH
- ø" — BRANCH TAKE–OFF w/"BUCKLEY" FITTING
- TEE–ON–TAPER (DUST COLLECTION ONLY)
- TERMINAL BOX TAKEOFF – SEE DETAIL
- DUCT ELBOW UP
- DUCT ELBOW DN
- FXC FXC — FLEXIBLE DUCT CONNECTION
- REHEAT COIL (OPTIONAL)
- CONSTANT AIR VOLUME BOX (CAV) OR VARIABLE AIR VOLUME BOX (VAV) OR VARIABLE VOLUME TEMPERATURE BOX (VVT)
- SERVICE CLEARANCE
- SUPPLY AIR TO AIR DEVICES — PLENUM AIR — PRIMARY AIR FROM AHU
- REHEAT COIL (OPTIONAL)
- FAN–POWERED VARIABLE AIR VOLUME BOX (FPB)
- SERVICE CLEARANCE

AIR DEVICE LEGEND

(SEE ARCHITECTURAL CEILING PLAN FOR EXACT DEVICE LOCATIONS)

- SUPPLY AIR CEILING DEVICE
- 3 WAY BLOW
- 2 WAY BLOW
- 1 WAY BLOW
- RETURN AIR CEILING DEVICE
- EXHAUST AIR CEILING DEVICE
- LINEAR SLOT SUPPLY DIFFUSER (2 WAY BLOW)
- LINEAR SLOT SUPPLY DIFFUSER (1 WAY BLOW)
- LINEAR SLOT RETURN DIFFUSER
- SUPPLY REGISTER/GRILLE WALL MOUNTED
- RETURN REGISTER/GRILLE WALL MOUNTED
- LINEAR SLOT FLOOR SUPPLY DIFFUSER
- LINEAR SLOT FLOOR RETURN DIFFUSER
- FLEXIBLE CONNECTION TO DIFFUSER
- HARD CONNECTION TO DIFFUSER
- RETURN DIFFUSER SOUND BOOT

ALL AIR DEVICE CRITERIA SHALL BE LISTED ON THE PLANS (REFER TO SPECIFICATIONS FOR PRODUCT DETAILS)

C	CIRCULAR DIFFUSER
D	DRUM DIFFUSER
F	LINEAR SLOT FLOOR DIFFUSER
G	GRILLE
H	HEPA DIFFUSER
I	FIRE DAMPER DIFFUSER
J	JET DIFFUSER
L	LOUVERED FACE DIFFUSER
M	LAMINAR FLOW DIFFUSER
N	CONCENTRIC DIFFUSER
P	PERFORATED DIFFUSER
R	REGISTER
S	LINEAR SLOT CEILING DIFFUSER
V	VARIABLE AIR VOLUME DIFFUSER
W	LINEAR SLOT WALL DIFFUSER

AIR DEVICE TYPE (CEILING DIFFUSER) — NECK SIZE (IN) — P6/100 — CFM

AIR DEVICE TYPE (LINEAR SLOT DIFFUSER) — NUMBER OF SLOTS — SLOT SIZE (1=1/2",2=3/4",3 =1") — NECK SIZE (IN) — S21.8/100 — CFM

AIR DEVICE TYPE (FLOOR LINEAR SLOTS) — WIDTH (IN) — DEPTH (IN) — SLOT ANGLE (1=0ø, 2=15ø, 3=45ø) — F6.12.1/100 — CFM

AIR DEVICE TYPE (JET DIFFUSER) — JET DIAMETER (IN) — NUMBER OF JETS — J8.2/100 — CFM

AIR DEVICE TYPE (GRILLES & REGISTERS) — WIDTH (IN) — DEPTH (IN) — R6.12/100 — CFM

AIR DEVICE TYPE (WALL LINEAR SLOTS) — WIDTH (IN) — DEPTH (IN) — SLOT ANGLE (1=0ø, 2=15ø, 3=45ø) — W6.12.1/100 — CFM

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED

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PROJECT:
MAINE MEDICAL CENTER
BRIGHTON CAMPUS
WOUND CARE AND
HYPERBARIC MEDICINE
335 BRIGHTON AVENUE
PORTLAND, ME 04103

KEY PLAN: GROUND FLOOR

ISSUE DATES:
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