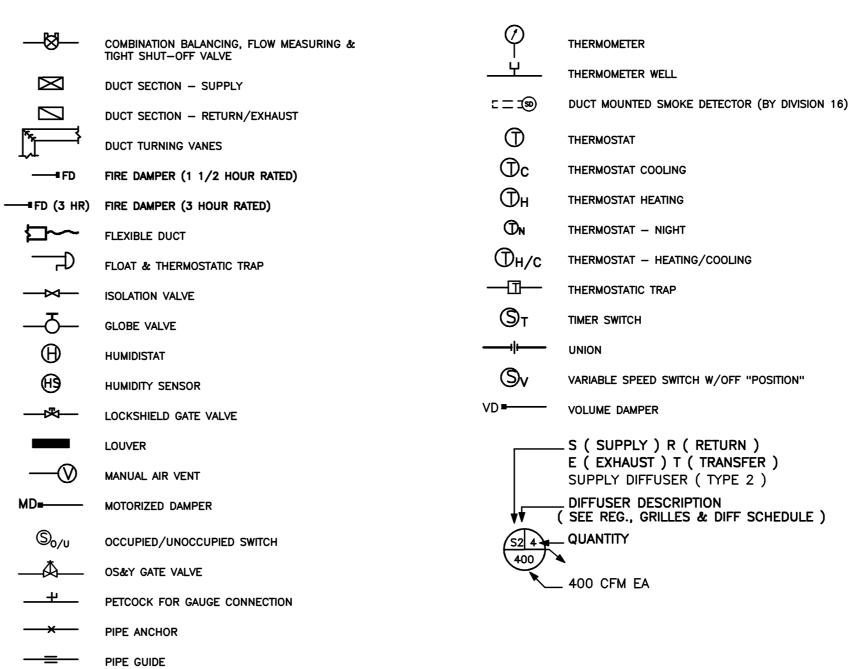
LEGEND

AC	AIR CONDITIONING UNIT	FD	FIRE DAMPER	R/D	RADIATION WITH DAMPER
ACC	AIR COOLED CONDENSER	FL	FINNED LENGTH OF RADIATION	RCHWP	RESET CHILLED WATER PUMP
ACCU	AIR COOLED CONDENSING UNIT	FM	FLOW METER	RCHWR	RESET CHILLED WATER RETURN
ACV	AUTOMATIC CONTROL VALVE	FOR	FUEL OIL RETURN	RCHWS	RESET CHILLED WATER SUPPLY
AD	ACCESS DOOR	FOS	FUEL OIL SUPPLY	REF	RETURN/EXHAUST FAN
ΑE	AIR EXTRACTOR	FPT	FREEZE PROTECTION THERMOSTAT	RET	RETURN
AFF	ABOVE FINISHED FLOOR	FR	FLOOR REGISTER	RF	RETURN AIR FAN
AFG	ABOVE FINISHED GRADE	FS	FLOW SWITCH	RH	REHEAT COIL
AFM	AIR FLOW MEASURING STATION	F&T	FLOAT & THERMOSTATIC TRAP	RHWP	RESET HOT WATER PUMP
AHU	AIR HANDLING UNIT	GCR	GRID CORE REGISTER	RHWR	RESET HOT WATER RETURN
ALD	ACOUSTICALLY LINED DUCT	GPM	GALLONS PER MINUTE	RHWS	RESET HOT WATER SUPPLY
ATC	AUTOMATIC TEMPERATURE CONTROL	HC	HEATING COIL	RPM	REVOLUTIONS PER MINUTE
BBU	BOILER BURNER UNIT	HE	HEAT EXCHANGER	RR	RETURN REGISTER
BD	BAROMETRIC DAMPER	HEDV	HOSE END DRAIN VALVE	S	SWITCH
BDD	BACKDRAFT DAMPER	HEF	HIGH EFFICIENCY FILTER BANK	SA	SOUND ATTENUATOR
CBD	COUNTERBALANCED BACKDRAFT DAMPER	HPCR	HIGH PRESSURE CONDENSATE RETURN (OVER 30 PSIG)	SCV	SELF - CONTAINED CONTROL VALVE
CC	COOLING COIL	HPS	HIGH PRESSURE STEAM (OVER 30 PSIG)	SD	SMOKE DAMPER
CD	CEILING DIFFUSER	HRC	HEAT RECOVERY COIL	SDR	SINGLE DEFLECTION REGISTER
CDR	CONDENSATE DRAIN (AHU, FC, ETC.)	HRP	HEAT RECOVERY PUMP	SF	SUPPLY FAN
CDRP	CONDENSATE DRAIN PUMP (AHU, FC, ETC.)	HRR	HEAT RECOVERY RETURN	SG	SUPPLY GRILLE
CG	CEILING GRILLE	HRS	HEAT RECOVERY SUPPLY	SP	STATIC PRESSURE
CFM	CUBIC FEET PER MINUTE	ним	HUMIDIFIER	SS	STAINLESS STEEL
СН	CHILLER UNIT	HWP	HEATING WATER PUMP	SUP	SUPPLY
CHWP	CHILLED WATER PUMP	HWR	HEATING WATER RETURN	SV	SOLENOID VALVE
CHWR	CHILLED WATER RETURN	HWS	HEATING WATER SUPPLY	TC	TIME CLOCK
CHWS	CHILLED WATER SUPPLY	HV	HEATING & VENTILATING UNIT	TID	THERMALLY INSULATED DUCT
CO	CLEANOUT	LD	LINEAR DIFFUSER	TD	TRANSFER DUCT
С	CONVECTOR	LG	LINEAR GRILLE	TF	TRANSFER FAN
CPD	CONDENSATE PUMP DISCHARGE	LPCR	LOW PRESSURE CONDENSATE RETURN (0-15 PSIG)	TG	TRANSFER GRILLE
CR	CONDENSATE RETURN	LPS	LOW PRESSURE STEAM (0-15 PSIG)	TR	TEMPERATURE RISE
CT	COOLING TOWER	LSGV	LOCK SHIELD GATE VALVE	π	THERMOSTATIC TRAP
CUH	CABINET UNIT HEATER	MAN/LS	MANUAL CONTROL FROM LIGHT SWITCH	UH	UNIT HEATER
CW	COLD WATER	MAN/SS	MANUAL CONTROL WITH VARIABLE SPEED SWITCH	VAV	VARIABLE AIR VOLUME BOX
CWP	CONDENSER WATER PUMP	MBH	1000 BRITISH THERMAL UNITS PER HOUR	VB	VACUUM BREAKER
CWR	CONDENSER WATER RETURN	MCC	MOTOR CONTROL CENTER	VD	VOLUME DAMPER
CWS	CONDENSER WATER SUPPLY	MD	MOTORIZED DAMPER	VF	VENTILATION FAN
D	CONDENSATE DRAIN	MPCR	MEDIUM PRESSURE CONDENSATE RETURN (16 - 30 PSIG)	WC	WATER COLUMN
D&D	DROP AND DRIP	MPS	MEDIUM PRESSURE STEAM (16 - 30 PSIG)	WG	WALL GRILLE
DDR	DOUBLE DEFLECTION REGISTER	MS	MAGNETIC STARTER	WR	WALL REGISTER
DEF	DEFLECTION	OA	OUTSIDE AIR	<u> </u>	ACOUSTICALLY LINED DUCT
DHW	DOMESTIC HOT WATER	OED	OPEN ENDED DUCT	₩	ACV 2 - WAY
EF	EXHAUST FAN	OS&Y	OUTSIDE SCREW & YOKE GATE VALVE	─₩ ─	ACV 3 - WAY
EG	EXHAUST GRILLE	PD	PRESSURE DROP	—⊗—	BALANCE VALVE
ER	EXHAUST REGISTER	PH	PREHEAT COIL	BDD •——	BACKDRAFT DAMPER
EXH	EXHAUST	PRD	PRESSURE RELIEF DAMPER	——	CAP - PIPE
FC	FLEXIBLE CONNECTOR	PRV	PRESSURE REDUCING VALVE	→	CHECK VALVE



PITCH DOWN

PLUG VALVE

PRD - PRESSURE RELIEF DAMPER

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PRESSURE GAUGE

PRESSURE REDUCING VALVE

PRESSURE RELIEF VALVE

A 10'-0" FL/D RADIATION I.D. (TYPE A, 10'-0" FINNED LENGTH, 10,000 BTU/HR) WITH DAMPER

A 10'-0" FL RADIATION I.D. (TYPE A, 10'-0" FINNED LENGTH, 10,000 BTU/HR) WITHOUT DAMPER

REDUCER - CONCENTRIC

REDUCER - ECCENTRIC

RETURN AIR DUCT

RETURN PIPING (HEATING WATER, CHILLED WATER HEAT RECOVERY, CONDENSATE RETURN)

SECTION I.D. (SECTION A SHOWN ON DWG. MH101)

SUPPLY PIPING (HEATING WATER, CHILLED WATER

RETURN AIR

SD ■ SMOKE DAMPER

STRAINER

SUPPLY AIR

SUPPLY AIR DUCT

HEAT RECOVERY, STEAM)

SWITCH WITH PILOT LIGHT

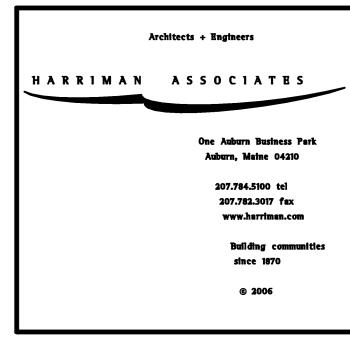
TEMPERATURE SENSOR

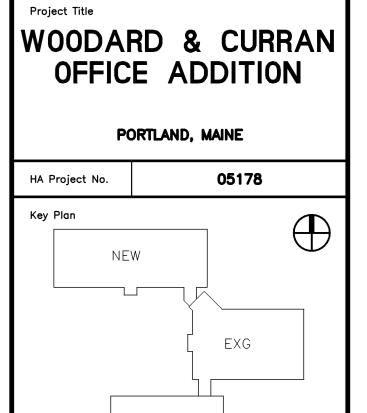
TAKE - OFF FROM BOTTOM OF PIPE

TAKE - OFF FROM TOP OF PIPE

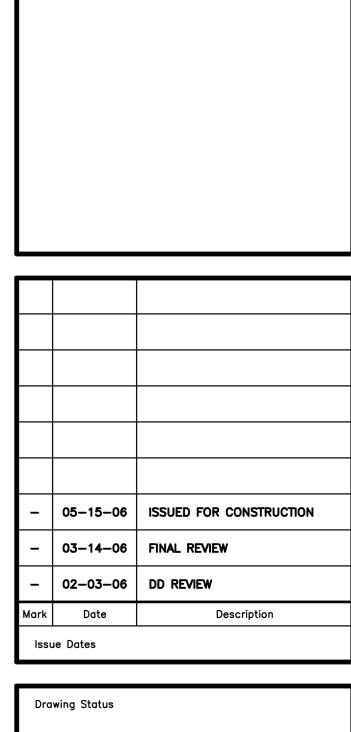


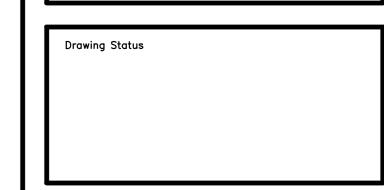
- MECHANICAL CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE WORK OF ALL OTHER TRADES.
- 2. ALL DUCTWORK AND MECHANICAL EQUIPMENT SHOWN DIAGRAMMATICALLY. DETERMINE EXACT LOCATIONS IN FIELD.
- 3. THE MECHANICAL CONTRACTOR SHALL NOT FABRICATE ANY DUCTWORK UNTIL HE HAS COORDINATED WITH ALL OTHER TRADES TO INSURE THAT THE DUCTWORK CAN BE INSTALLED WITH THE SIZES INDICATED ON THE DRAWINGS AND IN THE LOCATIONS SHOWN ON THE DRAWINGS.
- REFER TO REFLECTED CEILING PLAN ON ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF CEILING DIFFUSERS AND REGISTERS.
- 5. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF LOUVERS AND ROOF OPENINGS. COORDINATE ALL DIMENSIONS WITH GENERAL CONTRACTOR.
- ALL LOUVER DIMENSIONS SHALL BE CLOSELY COORDINATED WITH THE WORK OF ALL OTHER TRADES.
- 7. PROVIDE VOLUME DAMPERS SO THAT EVERY REGISTER, GRILLE, AND DIFFUSER SUPPLY, RETURN, AND EXHAUST) CAN BE INDIVIDUALLY BALANCED. VOLUME DAMPERS SHALL BE LOCATED AS FAR AWAY FROM REGISTERS, GRILLES, AND DIFFUSERS AS POSSIBLE TO MINIMIZE NOISE. VOLUME DAMPERS SHALL BE LOCATED ABOVE SUSPENDED CEILINGS WHEREVER POSSIBLE AND SHALL BE UNOBSTRUCTED AND EASILY ACCESSIBLE FOR THE BALANCING CONTRACTOR. CONTRACTOR SHALL VERIFY INSTALLATION OF EXISTING VOLUME DAMPERS AT ALL BRANCHES IN EXISTING SUPPLY DUCT. CONTRACTOR SHALL INSTALL NEW VOLUME DAMPERS WHERE REQUIRED. IN LOCATIONS WHERE VOLUME DAMPERS CANNOT BE LOCATED ABOVE SUSPENDED CEILINGS AND MUST BE LOCATED ABOVE GYPBOARD CEILINGS, PROVIDE ACCESS PANELS AS SPECIFIED AND NOTIFY THE ARCHITECT VERBALLY AND IN WRITING OF ALL SUCH LOCATIONS. ACCESS PANELS SHALL NOT BE INSTALLED WITHOUT PERMISSION FROM THE ARCHITECT.
- PROVIDE SINGLE THICKNESS TURNING VANES AT ALL 90 DEGREE ELBOWS IN ALL SUPPLY DUCTWORK.
- 9. FLEXIBLE DUCT WORK IS NOT ALLOWED IN NEGATIVE PRESSURE SYSTEMS. DO NOT USE FLEXIBLE DUCTWORK IN RETURN AND EXHAUST SYSTEMS. WHERE FLEXIBLE DUCT IS USED, LENGTHS SHALL NOT EXCEED 5'-0".
- 10. ALL DUCTWORK VISIBLE THROUGH CEILING OPENINGS, DUCT OPENINGS, REGISTERS, GRILLES, AND DIFFUSERS SHALL BE PAINTED BLACK.
- 11. ALL FRESH AIR AND EXHAUST AIR
 PLENUMS SHALL HAVE FLOOR PITCHED
 TO DRAIN THROUGH LOUVER.
- 12. FOR ALL NEW HVAC UNITS, SUPPLY AND RETURN DUCT MAINS OUT OF UNITS SHALL DROP DOWN AS CLOSE TO CEILING AS POSSIBLE (COORDINATE WITH LIGHTING, SPRINKLER, & OTHER TRADES) BEFORE FIRST RADIUS ELBOW FITTING IS INSTALLED. THE INTENT IS TO PROVIDE THE LONGEST RUN OF DUCT POSSIBLE OUT OF THE HVAC UNITS SO THAT STATIC PRESSURE LOSS IS MINIMIZED.
- 13. ALL PIPING SHOWN IN OUTSIDE WALLS SHALL BE RUN ON WARM SIDE OF BUILDING INSULATION. BUILDING INSULATION SHALL BE CONTINUOUS, WITHOUT JOINTS, BEHIND PIPING.
- 14. ALL PIPING SHALL BE CONCEALED EXCEPT IN MECHANICAL ROOMS AND AS NOTED. WHERE PIPES DROP IN BLOCK WALLS, PROVIDE INSULATION 1/2" THICK MINIMUM.
- 15. ALL DUCTWORK AND PIPING
 PENETRATIONS THROUGH MECHANICAL
 ROOM WALLS AND FLOORS SHALL BE
 SEALED WITH FIRE CAULKING.
- 16. MOUNT ALL THERMOSTATS / TEMPERATURE SENSORS AT 48" AFF TO CENTERLINE THERMOSTAT / TEMPERATURE SENSOR





EXG





Drawing Title						
LEGEND & GENERAL NOTES						
PA / PE: CG	Drawn By: REM					
Drawing Number						

PLOT DATE: May 15 2006 09:49:54 for /h/corp/05178/h_pln001.db/m40.dr by remar

FCU

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