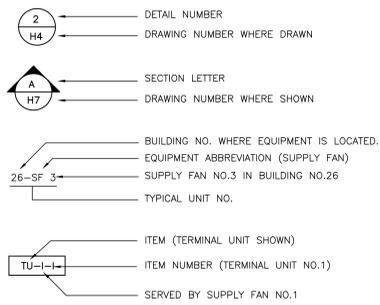


GENERAL NOTES

- ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE THE SUSPENDED CEILING.
- THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED.
- ACCESS PANELS IN SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS.
- TOTAL STATIC PRESSURE NOTED IN THE SCHEDULES INCLUDES DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC.
- FOR TYPICAL STEAM, WATER AND REFRIGERANT PIPING CONNECTIONS TO EQUIPMENT SEE STANDARD EQUIPMENT DETAILS.
- DIFFUSER, REGISTER AND GRILLE SIZES SHOWN ON FLOOR PLANS ARE NECK SIZES.
- WATER PIPE CONNECTIONS TO AIR HEATING AND COOLING COILS SHALL BE MADE TO PROVIDE COUNTER FLOW BETWEEN WATER AND AIR.

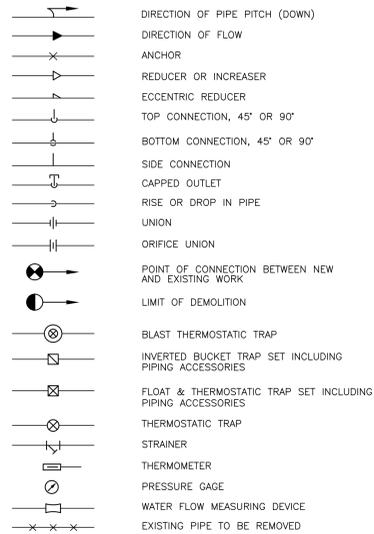
DRAWING SYMBOLS



ABBREVIATIONS

AC	AIR CONDITIONING UNIT	MB	MIXING BOX
ACC	AIR COOLED CONDENSER	MER	MECHANICAL ROOM
ACCU	AIR COOLED CONDENSING UNIT	MPR	MEDIUM PRESSURE STEAM CONDENSATE RETURN
ACROU	AIR COOLED RECIPROCATING CHILLER UNIT	MPS	MEDIUM PRESSURE STEAM
ACU	ABSORPTION CHILLER UNIT	MAX	MAXIMUM
AD	ACCESS DOOR	MIN	MINIMUM
AF	AFTER FILTER	NOM.	NOMINAL
AFCE	AIR FLOW CONTROL VALVE	O/A	OUTDOOR AIR
AFM	AIR FLOW MEASURING DEVICE	P	PUMP
AFW	AIR FOL WHEEL	PC	PUMPED CONDENSATE
AHU	AIR HANDLING UNIT	PD	PRESSURE DROP
AP	ACCESS PANEL	PEF	PROPELLER TYPE EXHAUST FAN
		PF	PRE-FILTER
		PFW	PUMPED FEED WATER
		PROW	PROPYLENE GLYCOL-WATER SOLUTION
		PH	PREHEAT
		POD	POWER OPERATED, OPPOSED BLADE DAMPER
		POD	POWER OPERATED, PARALLL BLADE DAMPER
		PRV	PRESSURE REDUCING VALVE
		R/A	RETURN AIR
		RCU	RECIPROCATING CHILLER UNIT
		RF	RETURN FAN
		RH	REHEAT COIL
		Rh	RELATIVE HUMIDITY
		RV	POWER TYPE ROOF VENTILATOR
		S/A	SUPPLY AIR
		SA	SOUND ATTENUATING UNIT
		SCD	SMOKE CONTROL DAMPER
		SCR	SILICON CONTROLLED RECTIFIER
		SD	SMOKE DAMPER
		Sp, Gr.	SPECIFIC GRAVITY
		SH	STEAM HUMIDIFIER
		SP	STATIC PRESSURE
		SPS	STATIC PRESSURE SENSOR
		TG	TOP GRILLE (WALL TYPE)
		TR	TOP REGISTER (WALL TYPE)
		TWU	THRU WALL UNIT
		UC	UNIT COOLER
		UH	UNIT HEATER
		URV	UPBLAST POWER TYPE ROOF VENTILATOR
		UV	UNIT VENTILATOR
		V	VALVE
		VAF	VANE AXIAL FAN
		VCC	VOLUMETRIC CONTROL CENTER
		VD	VOLUME DAMPER (MANUAL OPPOSED BLADE)
		VE	VOLUME EXTRACTOR
		VFD	VARIABLE FREQUENCY DRIVE
		V1	VIBRATION ISOLATOR
		VW	VARIABLE INLET VANES
		VP	VACUUM PUMP
		VR	VACUUM STEAM CONDENSATE RETURN
		VSMC	VARIABLE SPEED MOTOR CONTROLLER
		Wb	WET BULB TEMPERATURE
		WEF	WALL TYPE EXHAUST FAN
		WF	WATER FILTER
		WFMD	WATER FLOW MEASURING DEVICE
BIW	BACKWARD INCLINED WHEEL		
BG	BOTTOM GRILLE (WALL TYPE)		
BR	BOTTOM REGISTER (WALL TYPE)		
C	CONVERTOR		
CC	COOLING COIL		
CCF	CENTRIFUGAL CEILING FAN		
CCU	CENTRIFUGAL OR HELICAL ROTARY SCREW CHILLER UNIT		
CD	CEILING DIFFUSER		
CF	CENTRIFUGAL FAN		
CG	CEILING GRILLE		
CO	CLEAN OUT		
COMP	COMPRESSOR		
CONV.	CONVECTOR		
CP	CONDENSATE PUMP		
CR	CEILING REGISTER		
CU	CONDENSING UNIT		
CUH	CABINET UNIT HEATER		
CW	COLD WATER		
D	AUTOMATIC DAMPER		
Db	DRY BULB TEMPERATURE		
dB	DECIBELS		
DD	DISCHARGE DAMPERS		
Dp	DEWPOINT TEMPERATURE		
DX	DIRECT EXPANSION		
E/A	EXHAUST AIR		
EC	EVAPORATIVE CONDENSER		
ECC	ENGINEERING CONTROL CENTER		
EDH	ELECTRIC COIL DUCT HEATER		
EER	ENERGY EFFICIENCY RATIO		
EF	EXHAUST FAN		
EGW	ETHYLENE GLYCOL-WATER SOLUTION (% GLYCOL BY VOLUME)		
EMD	END OF MAIN DRIP (STEAM)		
ERC	ENERGY RECOVERY COIL		
ERP	ELECTRIC RADIANT CEILING PANEL		
ET	EXPANSION TANK		
EUH	ELECTRIC UNIT HEATER		
EWC	EVAPORATIVE WATER COOLER		
EX	EXISTING		
FC	FLEXIBLE CONNECTION		
FCU	FAN COIL UNIT		
FCW	FORWARD CURVED FAN		
FLOOR	FLOOR		
F.DPR.	FIRE DAMPER		
FS	FACTORY FABRICATED FAN SECTION		
FTR	FIN TUBE RADIATION		
GH	GRAVITY HOOD		
HC	HEATING COIL		
HD	HOOD		
HE	AIR TO AIR HEAT EXCHANGER		
HF	HEPA FILTER		
HP	HORSEPOWER		
HPR	HIGH PRESSURE STEAM CONDENSATE RETURN		
HPS	HIGH PRESSURE STEAM		
HRP	HYDRONIC RADIANT CEILING PANEL		
HV	HEATING AND VENTILATING UNIT		
ICF	IN-LINE CENTRIFUGAL FAN		
IEF	INDUSTRIAL EXHAUST FAN		
IFB	INTEGRAL FACE AND BYPASS		
IU	INDUCTION UNIT		
IV	INLET VANES		
LCD	LINEAR CEILING DIFFUSER		
LPR	LOW PRESSURE STEAM CONDENSATE RETURN		
LPS	LOW PRESSURE STEAM		
LTCP	LOCAL TEMPERATURE CONTROL PANEL		
LBS/HR	POUNDS PER HOUR		

GENERAL SYMBOLS



100% CONSTRUCTION DOCUMENTS

ENGINEERS/ARCHITECT: Consulting Group, PA www.apogee.com (919) 858-7420 Apogee Project # 2010 228	Raleigh, NC Indianapolis, IN Atlanta, GA Columbia, MD Apogee Project # 2010 228	WALDON STUDIO ARCHITECTS & PLANNERS, P.C. 6325 Woodside Court, Suite 310 Columbia, Maryland 21046 Tel: 410 290 8850 Fax: 410 290 3777 www.waldonstudio.com	Professional Stamp/Seal 	Drawing Title MECHANICAL SYMBOLS	Project Title COATESVILLE - VA MEDICAL CENTER A/E INSTALL EMERGENCY GENERATOR	Date 9/23/11	Project No. 542-11-104	Building Number ---	Location COATESVILLE, PENNSYLVANIA	DRAWING No. M-001	Dwg. 1 Of 5

VA