

A
three inches = one foot
B
one and one half inches = one foot
C
one inch = one foot
D
three quarters inch = one foot
E
one half inch = one foot
F
three eighths inch = one foot
G
one quarter inch = one foot
H
one eighth inch = one foot

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VA FORM 08-6231

ABBREVIATIONS		
NOTE: ALL ABBREVIATIONS MAY NOT BE USED		
AD AIR COND APD BDP BHP BTU BTUH CFH CFM CLG COMP COND CV CW DIA DISCH DP DB (E) EER EFF EG ELEC ELEV ENT EVAP EWT EXT (F) FC FD FLA FPI FPM FPS FSD FT GAL GPH GPM HD HG HR HT HTG HP HW HZ ID IN KW LAT LBS LG LH LRA LVG LWT MAX MBH	ACCESS DOOR AIR CONDITION(-ING,-ED) AIR PRESSURE DROP BALANCING DAMPER BRAKE HORSE POWER BRITISH THERMAL UNIT BTU/HOUR CUBIC FEET PER HOUR CUBIC FEET PER MINUTE COMPONENT CONDENS(-ER, -ING, -ATION) CONTROL VALVE COLD WATER DIAMETER DISCHARGE DEPTH OR DEEP DRY BULB TEMPERATURE EXISTING ENERGY EFFICIENCY RATIO EFFICIENCY ETHYLENE GLYCOL ELECTRIC ELEVATION ENTERING EVAPORAT(-E, -ING, -ED, -OR) ENTERING WATER TEMPERATURE EXTERNAL FUTURE FAHRENHEIT FLEXIBLE CONNECT(-OR, -ION) FIRE DAMPER FULL LOAD AMPS FINS PER INCH FEET PER MINUTE FEET PER SECOND FIRE SMOKE DAMPER FEET GALLON(S) GALLONS PER HOUR GALLONS PER MINUTE HEAD MERCURY HOUR HEIGHT HEATING HORSE POWER HOT WATER HERTZ(FREQUENCY) INSIDE DIAMETER KILOWATT LEAVING AIR TEMPERATURE POUNDS LENGTH LATENT HEAT LOCKED ROTOR AMPS LEAVING LEAVING WATER TEMPERATURE MAXIMUM THOUSAND BTU PER HOUR	MCA MFR MIN N/A NC NC NIC NO NPSH NTS OAT OD OZ PD PG PH PPM PRESS PSF PSI PSIA PSIG R RA RECIRC REFR REQD RLA RPM RW SA SC SCFM SCW SF SH SL SP SPECS(S) SQ STD STM TEMP TD THERM TOT TSTAT V VAC VAV VEL VENT VERT VFC/VFD VOL WC WG WPD WTR WT WB YR MINIMUM CIRCUIT AMPS MANUFACTURER MINIMUM NOT APPLICABLE NORMALLY CLOSED NOISE CRITERIA NOT IN CONTRACT NORMALLY OPEN NET POSITIVE SUCTION HEAD NOT TO SCALE OUTSIDE AIR OUTSIDE DIAMETER OUNCE PRESSURE DROP OR DIFFERENCE PROPYLENE GLYCOL PHASE PARTS PER MILLION PRESSURE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PSI ABSOLUTE PSI GAUGE THERMAL RESISTANCE RETURN AIR RECIRCULATE REFRIGERATION REQUIRED RATED --- AMPS REVOLUTIONS PER MINUTE RAINWATER SUPPLY AIR SHADING COEFFICIENT STANDARD CUBIC FEET PER MINUTE SOFT COLD WATER SAFETY FACTOR SENSIBLE HEAT SEA LEVEL STATIC PRESSURE SPECIFICATION(S) SQUARE STANDARD STEAM TEMPERATURE TEMP. DROP OR DIFF. THERMAL TOTAL THERMOSTAT VOLT VACUUM VARIABLE AIR VOLUME VELOCITY VENT. VENTILATION VERTICAL VARIABLE FREQUENCY MOTOR CONTROLLER VOLUME WATER COLUMN WATER GAUGE WATER PRESSURE DROP WATER WEIGHT WET BULB TEMP YEAR

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
BUILDING MANAGEMENT CONTROL SYSTEM DEVICES	
	SENSOR.
	CONTROLLER.
	ELECTRIC ACTUATOR.
	ACTUATOR WITH PILOT.
	PNEUMATIC ACTUATOR.
	ANALOG INPUT.
	ANALOG OUTPUT.
	BINARY INPUT.
	BINARY OUTPUT.

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
SENSOR AND CONTROLLER TYPES	
	HIGH LIMIT.
	LOW LIMIT.
	MANUAL RESET.
	TEMPERATURE.
	HUMIDITY.
	ENTHALPY.
	DIFFERENTIAL PRESSURE.
	ABSOLUTE PRESSURE.
	FLOW.
	VELOCITY.
	VOLTAGE.
	CURRENT.
	ELECTRIC POWER.
	LEVEL.
	LIGHT.
	ROTATION.
	SMOKE.
	TIMER.
	VIBRATION.
	CARBON MONOXIDE.
	CARBON DIOXIDE.
	REFRIGERANT GAS.
	VOLTAGE SOURCE.
	RESISTANCE SOURCE.
	DRY CONTACT SOURCE.
	POTENTIOMETER.
	SET POINT ADJUST.
SENSOR AND CONTROLLER PROBE TYPES	
	DUCT INSERTION PROBE.
	REMOTE BULB PROBE.
	OUTSIDE AIR PROBE.
	FIRE STATIC PROBE.
	DUCT STATIC PRESSURE PROBE.
	DIFFERENTIAL PRESSURE PROBE.
	AIR AVERAGE STATION PROBE.

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	HOT WIRE SENSOR PROBE.
	PITOT TUBE PROBE.
	PRESSURE TAP PROBE.
	PIPE WELL INSERTION PROBE.
	PIPE SURFACE MOUNTED PROBE.
	VENTURI FLOW METER PROBE.
	TURBINE PROBE.
	DUCT HUMIDITY PROBE.
EQUIPMENT	
	CENTRIFUGAL FAN.
	PLUG FAN.
	DAMPER, PARALLEL.
	DAMPER, OPPOSED.
	FILTER.
	HEATING COIL.
	COOLING COIL.
	2-WAY CONTROL VALVE.
	3-WAY CONTROL VALVE.
	WATER PUMP.
	MAGNETIC STARTER.
	VARIABLE FREQUENCY CONTROLLER.

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	DX COOLER.
	NATURAL GAS HEATER.
	EXAMPLE: TEMPERATURE SENSOR WITH DUCT PROBE.
WIRING TYPES	
	TWISTED PAIR.
	SHIELDED TWISTED PAIR.
	TWISTED TRIPLET.
	INDIVIDUAL CONDUCTORS.
	PNEUMATIC PIPING.

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
REFERENCE AND LINE SYMBOLS	
	DETAIL INDICATOR: # INDICATES DETAIL NUMBER, SHEET INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
	ELEVATION OR SECTION INDICATOR, EXTERIOR: # INDICATES ELEVATION OR SECTION NUMBER, SHEET INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
	ELEVATION OR SECTION INDICATOR, INTERIOR: # INDICATES ELEVATION OR SECTION NUMBER, SHEET INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
	ROOM OR SPACE NUMBER.
	KEYNOTE INDICATOR.
	REVISION INDICATOR.
	EQUIPMENT INDICATOR.
	PLUMBING FIXTURE INDICATOR.
	DIFFUSER/GRILLE INDICATOR.
	BREAK, STRAIGHT.
	BREAK, ROUND.
	MATCH LINE INDICATOR
	HIDDEN FEATURES LINE: HIDDEN, THIN LINE.
	CONTRACT LIMIT LINE: DASHDOT, WIDE LINE.
	NEW CONNECTION POINT TO EXISTING

GENERAL BCMS NOTES	
1. DO NOT ROUTE DUCTS AND PIPES ABOVE ELECTRICAL PANELS. ALL ELECTRICAL PANELS MUST HAVE CLEAR ACCESS SPACE IN FRONT OF PANEL 4'-0" DEEP AND 6'-6" HIGH. DO NOT ROUTE DUCTS AND PIPES IN ELECTRICAL ROOMS, EXCEPT DUCTS AND PIPES SERVING THE ROOM.	
2. IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN ASBESTOS IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.	

CONSULTANTS:		ARCHITECT/ENGINEERS:		Drawing Title SYMBOL LEGEND, SHEET INDEX & ABBREVIATIONS	Project Title METASYS CONTROLS AND ENERGY UPGRADE PHASE III ADDENDUM A	Project Number 660-12-110	Office of Construction and Facilities Management	
				Approved: Project Director	Location -	Building Number B.1		
Revisions: REVISION 1					Date 2/2012	Checked RXP	Drawn TNB	Drawing Number MI001-B01
JUNE 22						Dwg. 4 of 14	Department of Veterans Affairs	