


three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

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Drawing Title SCHEDULES
Approved: Project Director

Project Title METASY'S CONTROLS AND ENERGY UPGRADE PHASE III ADDENDUM A
Location -
Date 2/2012
Checked RXP
Drawn TNB

Project Number 660-12-110
Building Number B.1
Drawing Number MI601-B01
Dwg. 13 of 14

Office of
Construction
and Facilities
Management

 Department of
Veterans Affairs

ECM SCHEDULE		
ECM NUMBER	BID ITEM NUMBER	REQUIRED ACTIONS
4	5	1. REPAIR ECONOMIZER. DAMPERS CURRENTLY NOT FULLY RESPONDING TO SIGNAL. 2. INSTALL NEW CHILLED WATER VALVE AS INDICATED IN CONTROLS SCHEDULE. 3. REPAIR INLET GUIDE VANES. CURRENTLY STUCK AT 100% OPEN. 4. SET DISCHARGE AIR TEMPERATURE BASED ON OUTSIDE AIR TEMP AND ROOM TEMP. FEEDBACK. 5. CHANGE MIXED AIR TEMPERATURE SETPOINT TO EQUAL DISCHARGE AIR SETPOINT. 6. CHANGE ECONOMIZER ENABLE TO EQUAL DISCHARGE AIR SETPOINT.
NOTES: PROVIDE THE ECMS LISTED ABOVE WITH THE CONTROLS UPGRADE LISTED ON THE CONTROLS SCHEDULES. ECMS ARE GROUPED INTO BID ITEMS AS NOTED IN THE CONTROLS SCHEDULES. ITEMS LISTED ON THIS SCHEDULE ARE THOSE THAT HAVE BEEN DETERMINED TO CONSERVE ENERGY. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CONTROL DEVICES AS LISTED IN THE INDIVIDUAL CONTROL SCHEDULES AS WELL AS PERFORMING THE ACTIONS LISTED IN THIS SCHEDULE.		

PLAN MARK	LOCATION	EXISTING VA CONTROL DESIGNATION	SUPPLY FAN(S) VFD SPEED	SUPPLY FAN(S) VFD ALARM	RETURN FAN(S) ON/OFF	RETURN FAN(S) VFD SPEED	RETURN FAN(S) VFD ALARM	HOT WATER CONTROL VALVE	CHILLED WATER CONTROL VALVE	SUPPLY STATIC PRESSURE SENSOR	RETURN AIR TEMP SENSOR	MIXED AIR TEMP SENSOR	EXHAUST DAMPER ACTUATOR (2)	MIXING DAMPER ACTUATOR (2)	OUTSIDE AIR DAMPER ACTUATOR (2)	FINAL FILTER PRESSURE SENSOR	SUPPLY SMOKE DAMPER ACTUATOR (2)	RETURN SMOKE DAMPER ACTUATOR (2)	VFD COMMAND	BUILDING TEMP SENSOR	VFD MODE	RETURN STATIC PRESSURE SENSOR	MIN DAMPER POSITION SENSOR	HEAT RECOVERY CONTROL VALVE	DETAILS	ECM NUMBER	BID ITEM NUMBER
C-4	GROUND LEVEL ROOM GA09	1-MAS	N/A (1)	N/A	Y	N/A	N/A	N/A	PN 2" 2 WAY	Y	Y	Y	N/A	N/A	N/A	Y	N/A	N/A	N/A	S	N/A	S	Y	N/A	C3 OR C4 B3,D4	4	5A
C-16	5TH FLOOR ROOM 5C01	B1AHUS11 SUPPLY	Y	Y	N/A	N/A	N/A	PN 1" 3 WAY	PN 3" 2 WAY	Y	Y	Y	N/A	PN	PN	Y	PN	PN	Y	Y	Y	N/A	S	N/A	C3 OR C4 B3	N/A	18A
		B1AHUR11 RETURN	N/A	N/A	Y	Y	Y	N/A	N/A	N/A	S	N/A	PN	N/A	N/A	N/A	N/A	N/A	Y	N/A	Y	Y	S	N/A	C3 OR C4 B3,D4		
C-17	3RD FLOOR ROOM 3B32	B1AHUS12	S	S	N/A	N/A	N/A	PN 1.5" 3 WAY	PN 2.5" 3 WAY	S	N/A	N/A	N/A	N/A	PN	Y	N/A	N/A	S	Y	S	N/A	S	N/A	C3 OR C4 B3	N/A	19A
C-18	GROUND LEVEL ROOM GD19	1-SF-1	Y	Y	Y	Y	Y	PN 2" 3 WAY	PN 4" 2 WAY	Y	Y	Y	N/A	N/A	N/A	Y	N/A	N/A	S	S	S	S	S	N/A	C3 OR C4 B3	N/A	20A
C-19	1ST FLOOR	B1PAR-IN	S	S	Y	S	S	PN 1" 2 WAY	PN (3)	Y	S	S	N/A	PN	N/A	S	N/A	N/A	S	S	S	Y	Y	N/A	C3 OR C4 B3,D4,C6,F3	N/A	21A
C-20	OUTSIDE, SHEET M101	1-INP-IV	S	S	Y	S	S	Y	Y	Y	N/A	Y	N/A	PN	N/A	Y	N/A	N/A	S	S	S	S	S	N/A	C3 OR C4 B3,D4,C6,F3	N/A	22A
C-21	1ST FLOOR	1-DHCP	N/A	Y	N/A	N/A	N/A	N/A	PN 1" 3 WAY	S	N/A	Y	N/A	PN	N/A	Y	N/A	N/A	N/A	Y	N/A	N/A	Y	N/A	C3 OR C4 B3	N/A	23A
C-22	1ST FLOOR ROOM 1G17D	1-2N1	N/A	Y	Y	S	Y	PN 1" 2 WAY	PN 2" 2 WAY	N/A	S	Y	N/A	PN	N/A	Y	N/A	N/A	Y	N/A	N/A	N/A	Y	N/A	C3 OR C4 B3,D4,C6,F3	N/A	24A
Y N/A PN S		INDICATES THAT POINT IS CURRENTLY MONITORED BY CONTROL SYSTEM INDICATES THAT POINT IS NOT APPLICABLE TO THIS EQUIPMENT INDICATES EXISTING PNEUMATIC CONTROLS THAT NEED TO BE UPGRADED TO DDC INDICATES A CONTROL DEVICE THAT NEED TO BE ADDED																									
NOTES: (1) CONTRACTOR RESPONSIBLE FOR VERIFYING PROPER OPERATION OF INLET GUIDE VANES. (2) CONTRACTOR RESPONSIBLE FOR VERIFYING PROPER OPERATION OF DAMPER FUNCTION. (3) PROVIDE TWO 2.5" 3 WAY VALVES AND ONE 1.5" 2 WAY VALVE. (4) PROVIDE A 3/4" 2 WAY STEAM CONTROL VALVE AND A 1" 2 WAY STEAM CONTROL VALVE. (5) PROVIDE A 1-1/2" 2 WAY HEATING CONTROL VALVE AND A 1-1/4" 2 WAY PREHEAT CONTROL VALVE. (6) PROVIDE A 3/4" 2 WAY STEAM CONTROL VALVE ON THE HOT WATER CONVERTER BY THIS AHU.																											

EXISTING STAND ALONE UNIT CONTROL SCHEDULE							
PLAN MARK	LOCATION	EXISTING CONTROL DESIGNATION	HW CONTROL VALVE	CW CONTROL VALVE	DAMPER ACTUATOR	DETAIL	BID ITEM NUMBER
C-24	1ST FLOOR RM. 1E92	AHU-1	PN 1/2" 2 WAY	PN 3/4" 2 WAY	N/A	C3 OR C4 B3	25A
C-25	1ST FLOOR RM. 1E92	AHU-2	PN 1/2" 2 WAY	PN 1/2" 2 WAY	PN	C3 OR C4 B3	26A
C-26	1ST FLOOR RM. 1E90	AHU-4	PN 1/2" 3 WAY	PN 3/4" 3 WAY	N/A	C3 OR C4 B3	27A
Y INDICATES THAT POINT IS CURRENTLY MONITORED BY CONTROL SYSTEM N/A INDICATES THAT POINT IS NOT APPLICABLE TO THIS EQUIPMENT PN INDICATES EXISTING PNEUMATIC CONTROLS THAT NEED BE UPGRADED TO DDC S INDICATES A CONTROL DEVICE THAT NEED TO BE ADDED							