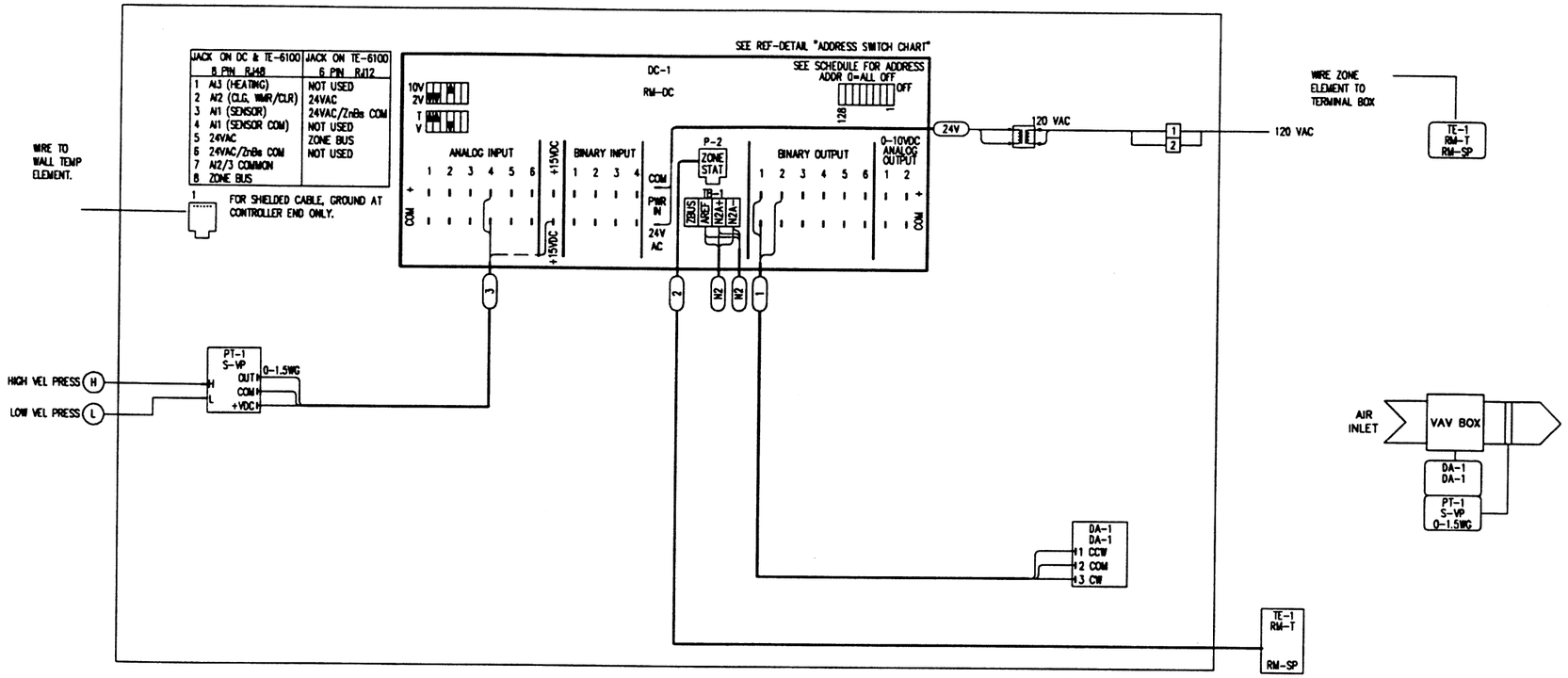
Digital ASCs Serving the VAV Terminal Units for AHU-401 and AHU-403



PANEL MATERIAL

	DEVICE TAG	QTY	CODE NUMBER	DESCRIPTION
(P)	ACC	48	PD-113-3	TERMINAL BLOCK; MEDIUM
(P)	DC-1	26	AS-VAV101-0	DIGITAL ASC VAV CONTROLLER
(P)	DA-1	26	AIP-2040-12	ACTUATOR/TRANSMITTER PACKAGE
(P)	TE-1	26	TE-6100-12	WALL MOUNTED NI TEMP ELEMENT W/SP ADJ.
		26	TE-6081-961	MDM SWITCH
(P)	TX-1	26	Y65AS-1	120/26 VAC TRANSFORMER

Enclosure/Room Schedule

Area Served	Associated VAV Box Tag	ICS Tag for VAV Box Controller/Enclosure	JCI HVACPRO Conf. File Name
Upper SR West	VAV-401, 402	EN-20158	C_12_PA1.VAC
EAA West L1	VAV-424	EN-20173	C_12_PA2.VAC
EAA West L1	VAV-425	EN-20174	C_12_PA3.VAC
EAA	VAV-411-414	EN-20152-20155	C_14_PA1.VAC
EAA	VAV-404	EN-20156	C_14_PA2.VAC
EAA East L1	VAV-426	EN-20175	C_14_PA3.VAC
EAA	VAV-406,8,10,20	EN-20157-20160	C_16_PA1.VAC
EAA West	VAV-403,5,7,9	EN-20161-20164	C_16_PA2.VAC
EAA East	VAV-415-19,22-23	EN-20165-20171	C_16_PA3.VAC
B-204	VAV-421	EN-20172	C_08_PA1.VAC

Sequence of Operations

OCCUPIED MODE:

THE DIGITAL CONTROLLER WILL MODULATE VAV TERMINAL UNIT DAMPER, DA-1 TO MAINTAIN A FLOW SETPOINT ACCORDING TO THE ASC CONFIGURATION FILE INDICATED ON THE ENCLOSURE/ROOM SCHEDULE. THE FLOW SETPOINT WILL BE CALCULATED TO MAINTAIN OCCUPIED HEATING/COOLING MINIMUM AND MAXIMUM FLOW RATES AS THE SPACE TEMPERATURE TRAVELS THROUGH THE HEATING AND COOLING PROPORTIONAL BANDS. CONTROLLED DEVICE, DA-1 WILL BE MODULATED TO MAINTAIN AN ACTUAL HEATING/COOLING SETPOINT. THE ACTUAL TEMPERATURE SETPOINT CAN BE ADJUSTED PLUS OR MINUS 5 F. FROM THE BASE SETPOINT, 72 F. AT TEMPERATURE ELEMENT, TE-1. THE BASE SETPOINT CAN BE ADJUSTED FROM ANY ICS OPERATOR WORKSTATION.

UNOCCUPIED MODE:

VAV TERMINAL UNIT DAMPER, DA-1 WILL MODULATE TO MAINTAIN A FLOW SETPOINT ACCORDING TO THE CONFIGURATION FILE. THE FLOW SETPOINT WILL BE CALCULATED TO MAINTAIN UNOCCUPIED HEATING/COOLING MINIMUM AND MAXIMUM FLOW RATES AS THE SPACE TEMPERATURE TRAVELS THROUGH THE HEATING AND COOLING PROPORTIONAL BANDS. BOTH CONTROLLED DEVICES, DA-1 AND Y-X WILL BE MODULATED IN SEQUENCE TO MAINTAIN AN UNOCCUPIED SPACE TEMPERATURE SETPOINT AS DEFINED IN THE ASC CONFIGURATION FILE. THE UNOCCUPIED TEMPERATURE SETPOINT IS ADJUSTABLE FROM ANY ICS OPERATOR WORKSTATION.

cigonlyl

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DRAWING TITLE
Primary Air, Cooling Only
Variable Air Volume Terminal
Units

REFERENCE DRAWING			NO.	REVISION-LOCATION	ECN	DATE	BY
				RECORD		06/08/94	SF

SALES ENGR	PROJECT MGR	APPL. ENGR	DRAWN		APPROVED	
JP	SF	DCS	BY SF	DATE 11/23/91	BY	DATE

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