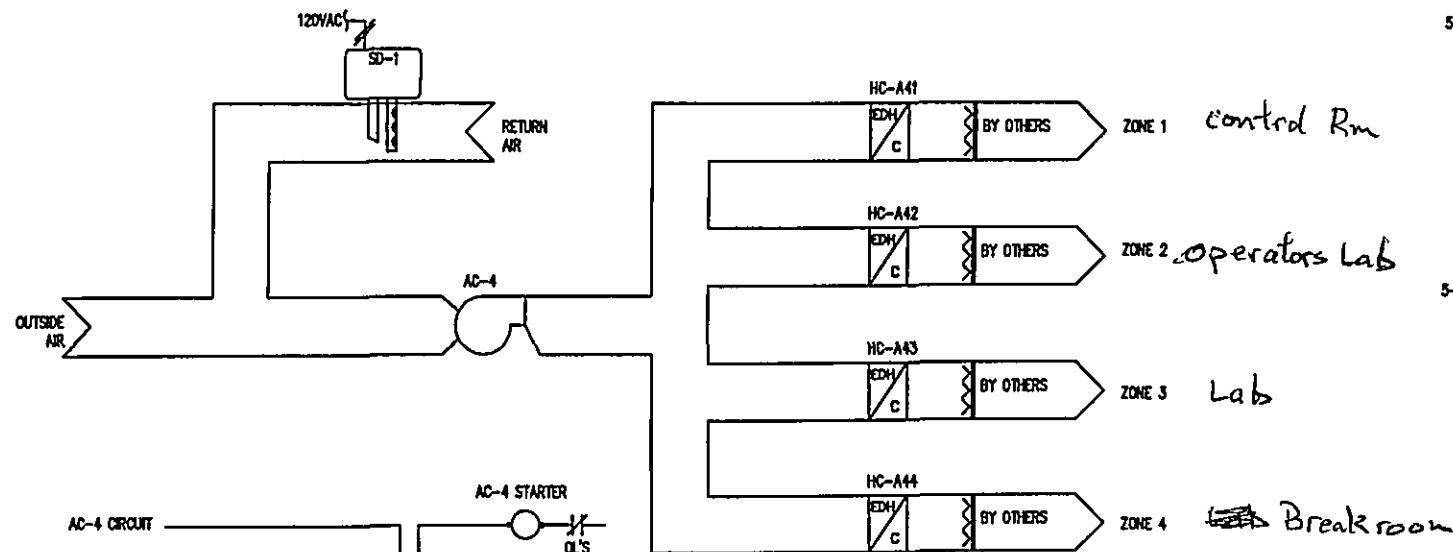
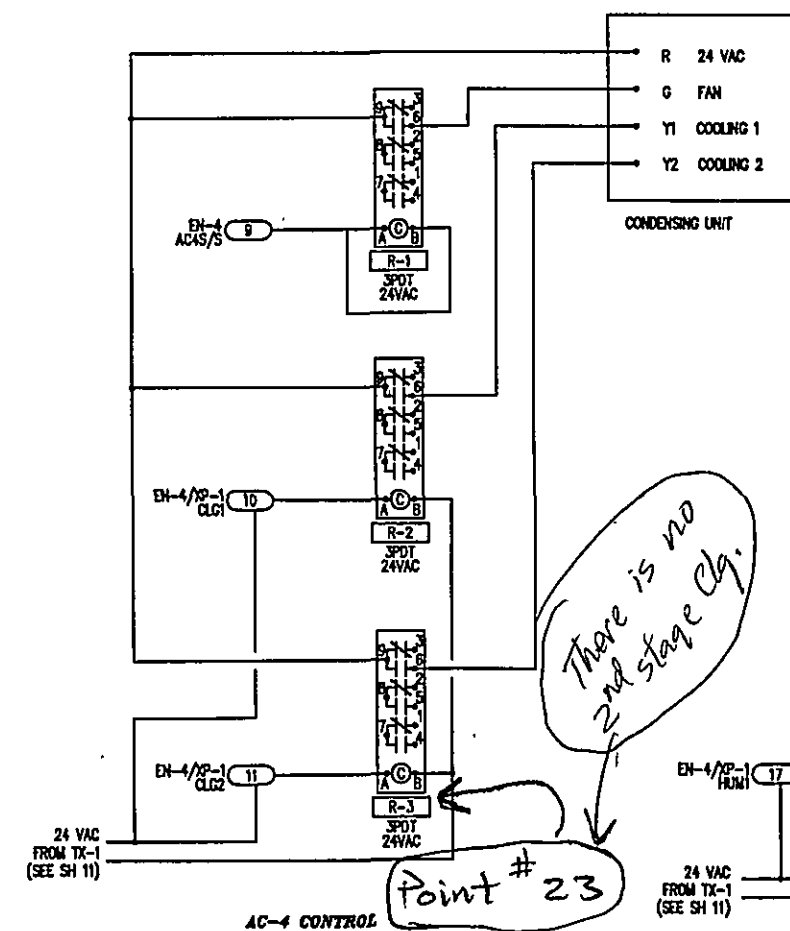
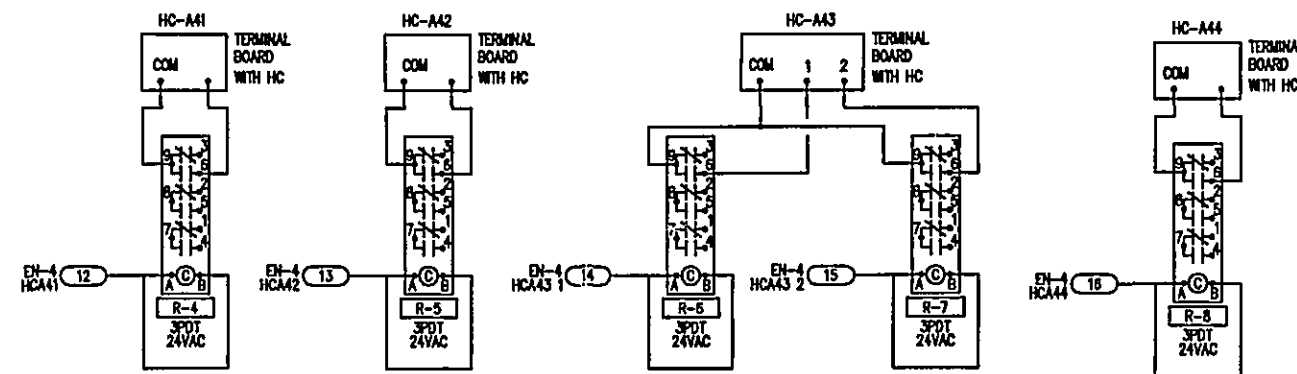




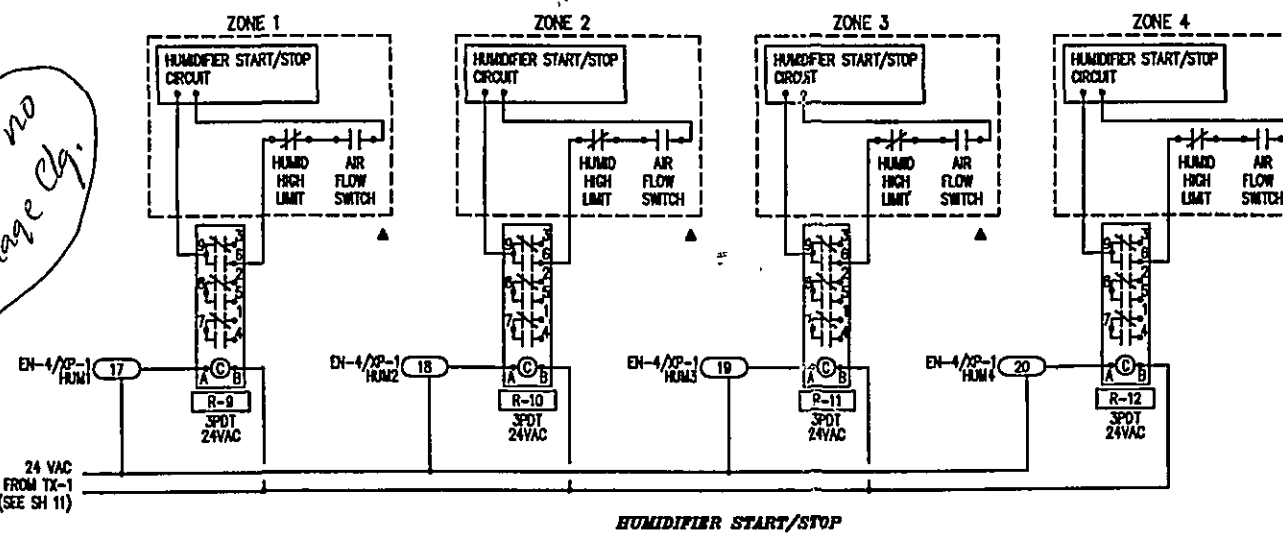
AC-4 WIRING DIAGRAM



AC-4 CONTROL



DUCT HEATING COIL CONTROL



HUMIDIFIER START/STOP

FIELD MATERIAL			
DEVICE TAG	QTY	CODE NUMBER	DESCRIPTION
HE-1-HE-4	4	HE-6310-2	TRANS RH/TEMP/WALL 0/100%
R-1-R-12	12	TE-1810-9600	WALL MFG BOX KIT
	12	PD-109-21	RELAY, PLUG IN 3PDT
	12	PZ-1010-11	UTILITY ENCLOSURE
	12	PD-101-35	RELAY SOCKET, 11PIN BLADE
SD-1	1	DH40DACDC1	DUCT DETECTOR, 10M,
	1	ST-3	SAMPLING TUBE FOR

SEQUENCE OF OPERATION

AC-4 CONTROL:

DX-9100 CONTROLLER WILL START/STOP THE AC UNIT ACCORDING TO PRE PROGRAMMED SCHEDULE. ZONE THERMOSTAT HE-X WILL CONTROL ITS ZONE DUCT HEATING COIL HC-A4X AND THE ZONE REQUIRING THE MOST COOLING OR DE-HUMIDIFICATION, AS SENSED THRU ZONE THERMOSTAT, WILL CONTROL AC COOLING. THE ZONE HUMIDISTAT HE-X WILL ENERGIZE THE AC UNIT FOR DE-HUMIDIFICATION IF HUMIDITY EXCEEDS SETPOINT AND WILL ENERGIZE THE ZONE HUMIDIFIER IF HUMIDITY FALLS BELOW SETPOINT.

SAFETIES:

DUCT SMOKE DETECTOR WILL DEENERGIZE ITS ASSOCIATED AC UNIT AND SIGNAL THE BUILDING FIRE ALARM SYSTEM IF PRODUCTS OF COMBUSTION ARE SENSED IN THE RETURN AIR.

AC-4
Control Room
Labs + Breakroom

DRAWING TITLE AC-4 CONTROL TREATMENT BUILDING		NO. REVISION-LOCATION		DATE BY	
PROJECT ROANOKE COUNTY WATER TREATMENT FACILITY		DRAWN DATE 05/08/95 BY		APPROVED DATE	
JOHNSON CONTROLS Systems & Services Division		JOHNSON CONTROLS INC 2630 BROADWAY S.W. ROANOKE, VA 24014 703-344-8291		CONTRACT NUMBER 95066-0013 DRAWING NUMBER 10 OF 14	