

Digital ASCs Serving Series Fan VAV Terminal Units With Reheat (TYPICAL)

FIELD MATERIAL			
DEVICE TAG	QTY	CODE NUMBER	DESCRIPTION
TE-1	127	TE-6411W-1010	TEMP SENSOR; 1000 OHM, NI

PANEL MATERIAL			
DEVICE TAG	QTY	CODE NUMBER	DESCRIPTION
AT-1	127	ATP-2040-612	ACT/TRANS 6 MIN 1.5", 1/2"
DC-1	127	AS-VAV101-0	VAV CNTR V/D ENC 6R0L2AD

RECEIVED

OCT 07 1994

PERINI BLDG. CO., INC.
100 #222-ARCONNE NATL 1AD

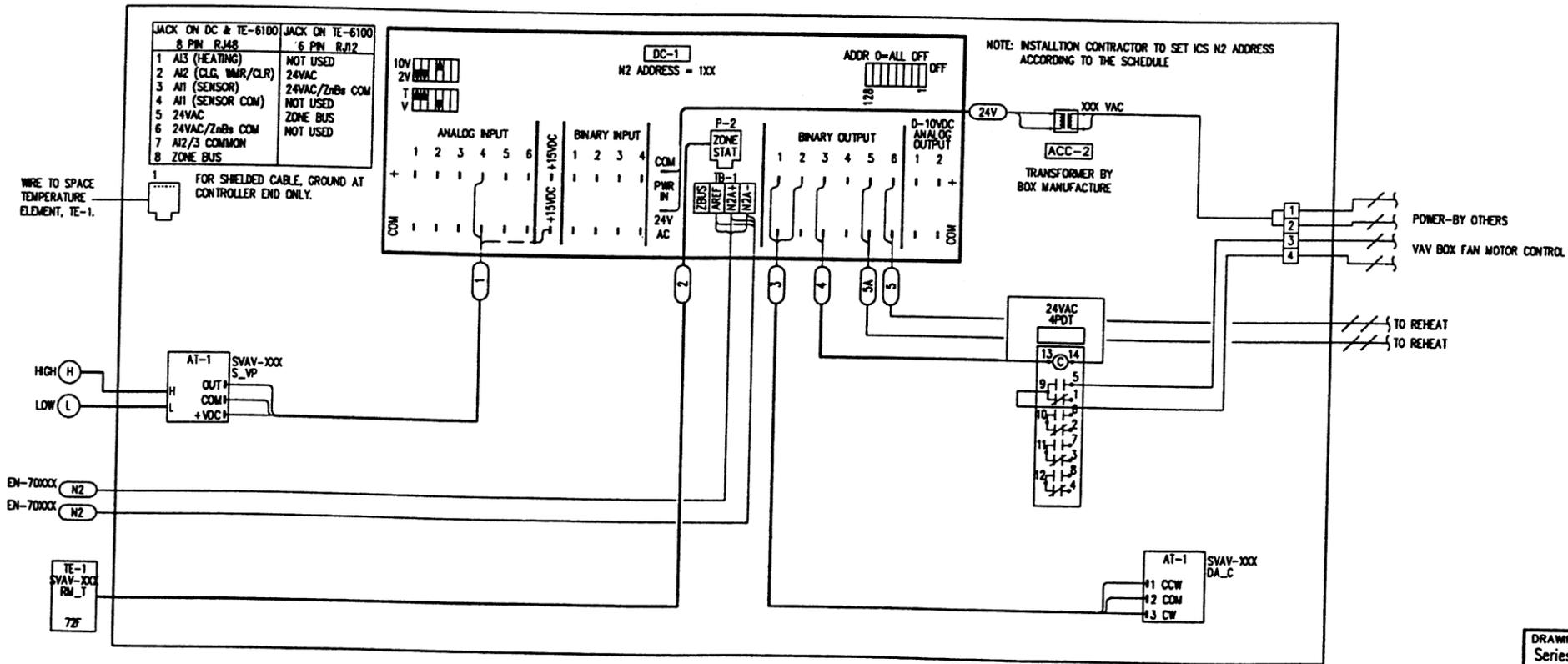
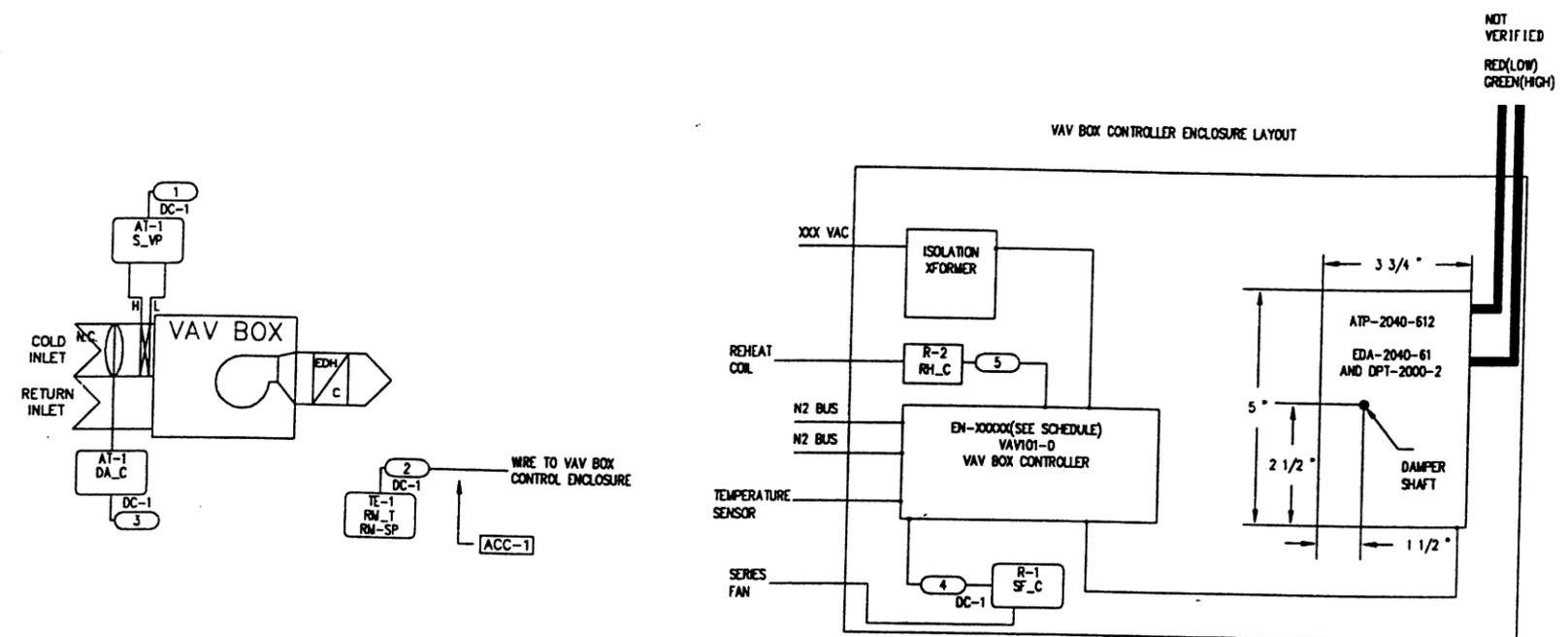
Sequence of Operations

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, VAV DAMPER 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, 76 F. AT TEMPERATURE ELEMENT, TE-1. THE BASE SETPOINT CAN BE ADJUSTED FROM ANY ICS OPERATOR WORKSTATION. THE SERIES BOX FAN WILL RUN CONSTANTLY IN THIS MODE.

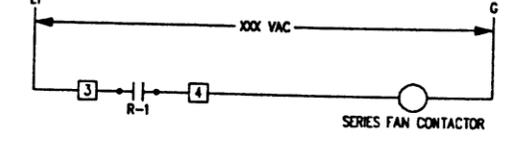
UNOCCUPIED MODE:

THE ZONE MAY BE PLACED IN A TEMPORARY OCCUPANCY MODE BY DEPRESSING THE SWITCH LOCATED ON THE SPACE TEMPERATURE ELEMENT, TE-1. THE DIGITAL CONTROLLER WILL MODULATE VAV TERMINAL UNIT DAMPER, DA-1 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 DEVICE, DA-1, VAV DAMPER WILL BE MODULATED 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. THE SERIES BOX FAN WILL BE CYCLED PER THE BOX UNOCCUPIED HEATING TEMPERATURE SETPOINT.

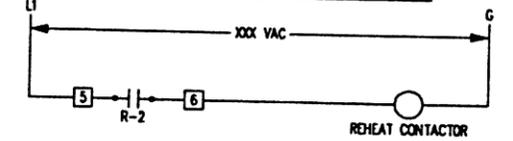


Motor Control

FAN CONTROL



ELECTRIC REHEAT COIL



DRAWING TITLE		FILE: CLD_RHFP	
Series Fan, VAV Terminal Unit With Electric Reheat		DCODE: 19940118.2035	
PROJECT		CONTRACT NUMBER	
The Argonne National Labs Advanced Photon Source Campus 9700 Cass Avenue South Argonne, IL 60439		3007 MALMO ROAD ARLINGTON HEIGHTS ILLINOIS 60005 708/364-1500 Main 708/806-4438 Eng	
DRAWING NUMBER		91390-0009	
91-9-G-01D			