

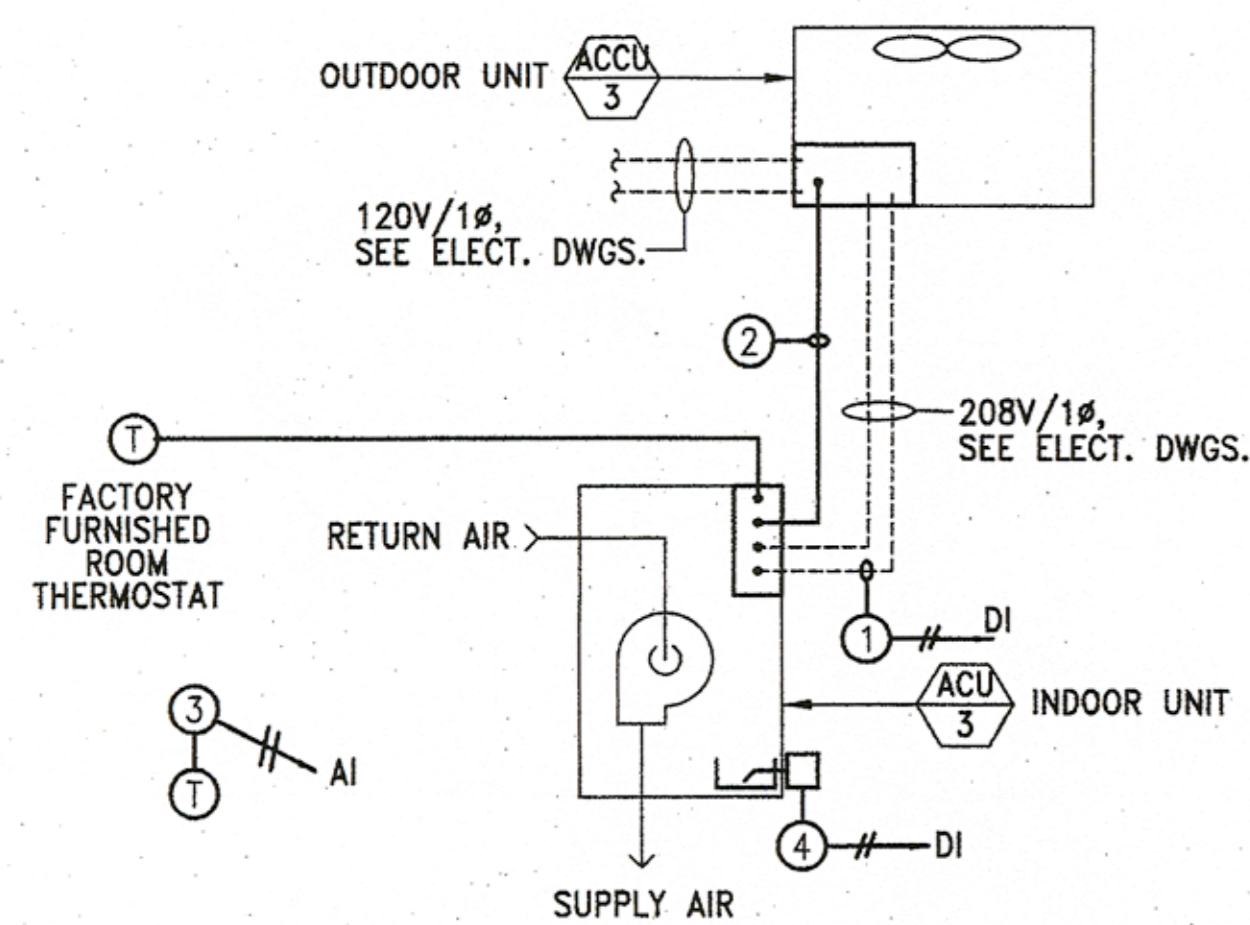
GENERAL

ROOM THERMOSTAT SHALL BE ABLE TO MAINTAIN SPACE TEMPERATURE SETPOINTS AT 72°F WITH TEMPERATURE RANGE ADJUSTABLE UP TO 10°F DEADBAND.

NORMAL MODE CONTROL

ROOM THERMOSTAT T-1 SHALL MODULATE THE TEMPERATURE CONTROL VALVE, V-1, TO MAINTAIN ROOM TEMPERATURE SETPOINT. SEE SCHEDULE FOR 2-WAY OR 3-WAY BE USED. MONITOR REHEAT COIL DISCHARGE TEMPERATURE.

C1 NOT TO SCALE
REHEAT COIL CONTROL



GENERAL NOTES:

1. CONTROL DIAGRAM FOR ACU-1/ACCU-1 AND ACU-2/ACCU-2 SHALL BE SIMILAR, EXCEPT NO ROOM TEMPERATURE AND CONDENSATE OVERFLOW MONITOR BY DDC SYSTEM.

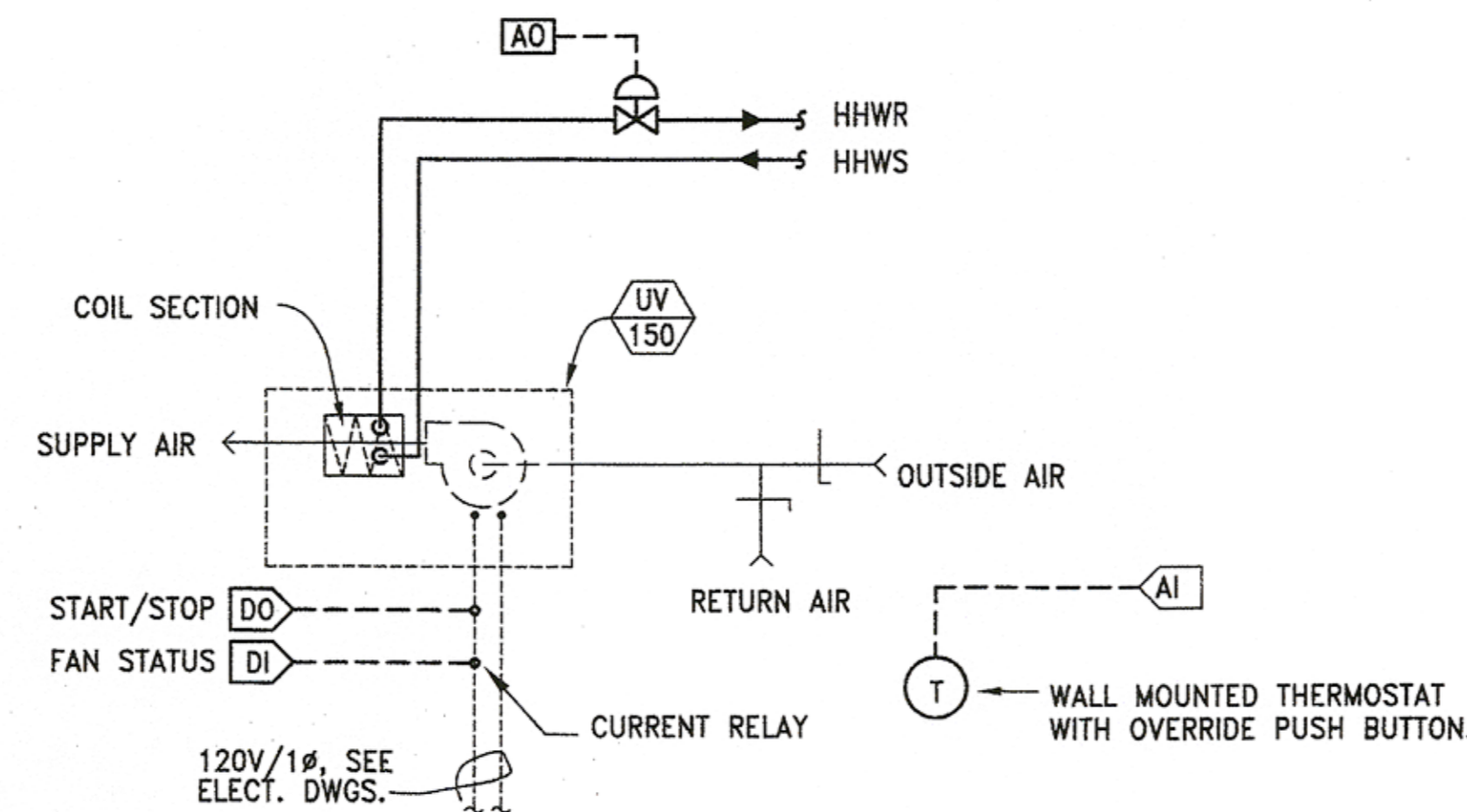
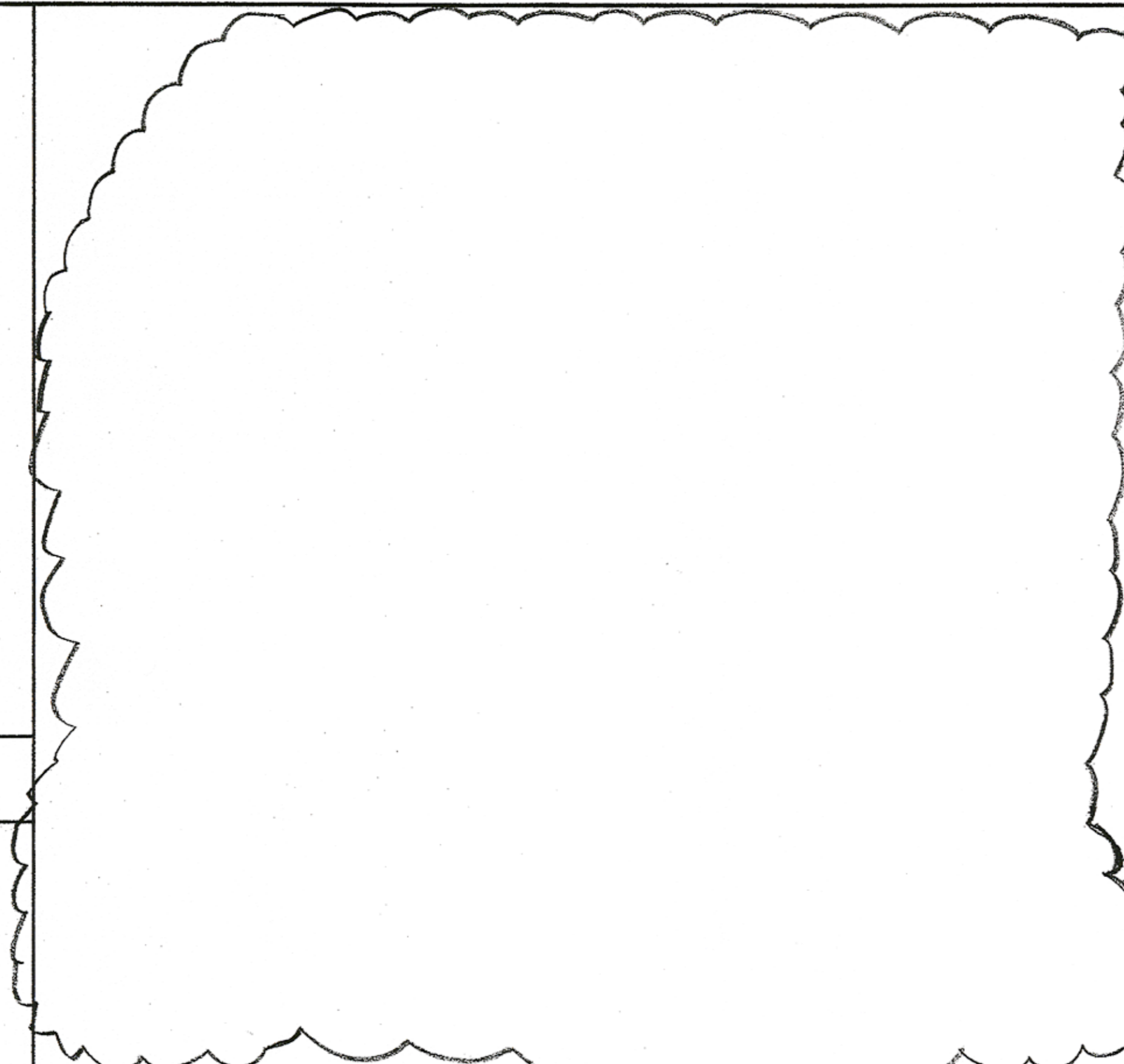
SHEET NOTES:

- ① AC UNIT STATUS (VIA CURRENT SENSING) SIGNAL TO DDC PANEL.
- ② CONTROL WIRING FOR SPLIT SYSTEM. PROVIDE NUMBER OF WIRES PER MANUFACTURER'S REQUIREMENT.
- ③ ROOM TEMPERATURE SENSOR SIGNAL TO DDC PANEL.
- ④ CONDENSATE OVERFLOW SIGNAL TO DDC PANEL.

SEQUENCE OF OPERATION:

- 1. THE DDC SYSTEM SHALL MONITOR THE SPLIT SYSTEM AC UNIT STATUS.
- 2. THE SPLIT SYSTEM AC UNIT IS ROOM THERMOSTAT CONTROLLED. THE SPLIT SYSTEM SHALL ENERGIZE WHEN THE ROOM TEMPERATURE IS ABOVE 75°F (FIELD ADJUSTABLE) AND SHALL DE-ENERGIZE WHEN THE ROOM TEMPERATURE IS BELOW 70°F (FIELD ADJUSTABLE).
- 3. A HIGH ROOM TEMPERATURE ALARM SHALL BE ANNUNCIATED AT THE DDC PANEL WHEN ROOM TEMPERATURE IS ABOVE 80°F.
- 4. THE DDC SYSTEM SHALL MONITOR THE STATION OF THE CONDENSATE OVERFLOW SWITCH. AN ALARM SHALL BE ANNUNCIATED WHEN THE SWITCH IS MADE, SET FOR 3/8", AND SHUTDOWN AC UNIT.

A1 NOT TO SCALE
DUCTLESS SPLIT SYSTEM CONTROLS



GENERAL NOTES:

A. DIAGRAM SHALL BE SIMILAR FOR ALL FAN COIL UNITS.

SHEET NOTES:

1. CONTROL WIRING FOR FAN COIL UNITS BY DIV. 15. PROVIDE NUMBER OF WIRES PER MANUFACTURER'S REQUIREMENT.

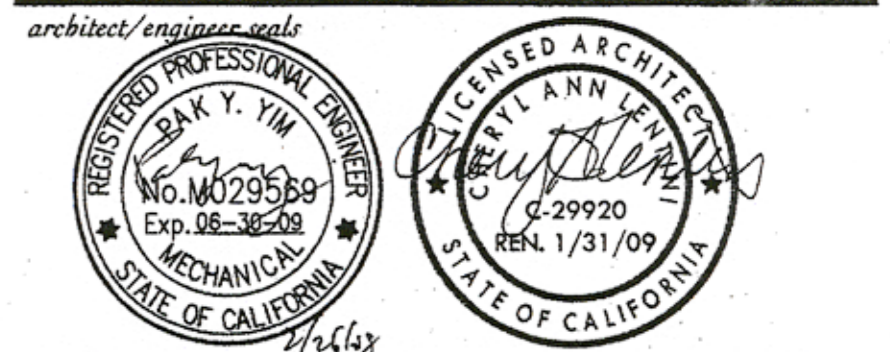
SEQUENCE OF OPERATION:

- 1. UNIT SHALL START/STOP AUTOMATICALLY VIA THE BUILDING MAIN BMS CONTROLLER BASED ON A 365 DAY PROGRAMMING SCHEDULE.
- 2. HEATING MODE:
 - A. THE CONTROLLER SHALL MODULATE THE HEATING COIL CONTROL VALVE TO MAINTAIN THE ROOM TEMPERATURE AS SET (72°F, ADJUSTABLE) WHEN THE ROOM THERMOSTAT CALLS FOR HEATING.
- 3. INITIATE AN ALARM IF (1) FAN FAILS TO START, (2) SETPOINT CANNOT BE MAINTAINED.

A2 NOT TO SCALE
FAN COIL UNIT CONTROLS

**BEVERLY
PRIOR**
architects

222 SUTTER STREET, 9TH FLOOR
SAN FRANCISCO, CALIFORNIA 94108
phone 415.777.9422 fax 415.777.2755 24/7 bparch.com



**GAYNER
ENGINEERS**
1133 POST STREET
SAN FRANCISCO, CA 94109
TELEPHONE (415) 474-9500
FAX (415) 474-1363

project title
**SMCCCD
COLLEGE OF SAN MATEO
FINE ARTS COMPLEX
BUILDINGS 2 & 4
RENOVATIONS
INCREMENT 1**
344 CSM DRIVE
SAN MATEO, CA 94402

agency/approvals

date	description
07.17.2007	SD - SUBMITTAL
09.14.2007	DD - SUBMITTAL
11.16.2007	CD - SUBMITTAL DSA
02.27.2008	CD - BACKCHECK DSA
03.05.2008	DSA APPROVAL

sheet title
**CONTROL
DIAGRAMS**

project no. 2707.01

sheet no. **M-501**

AS BUILT