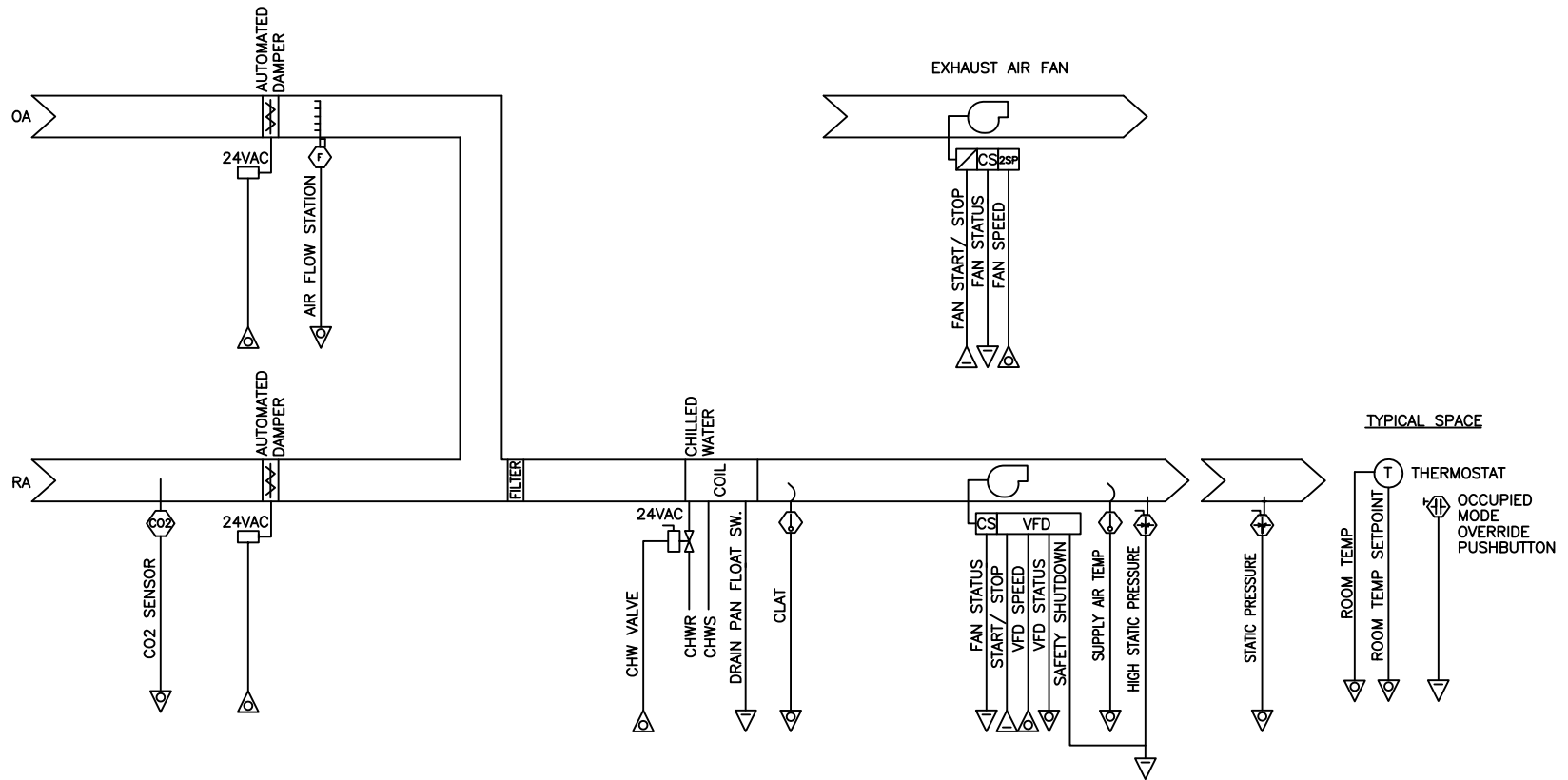


DIAGRAM #1



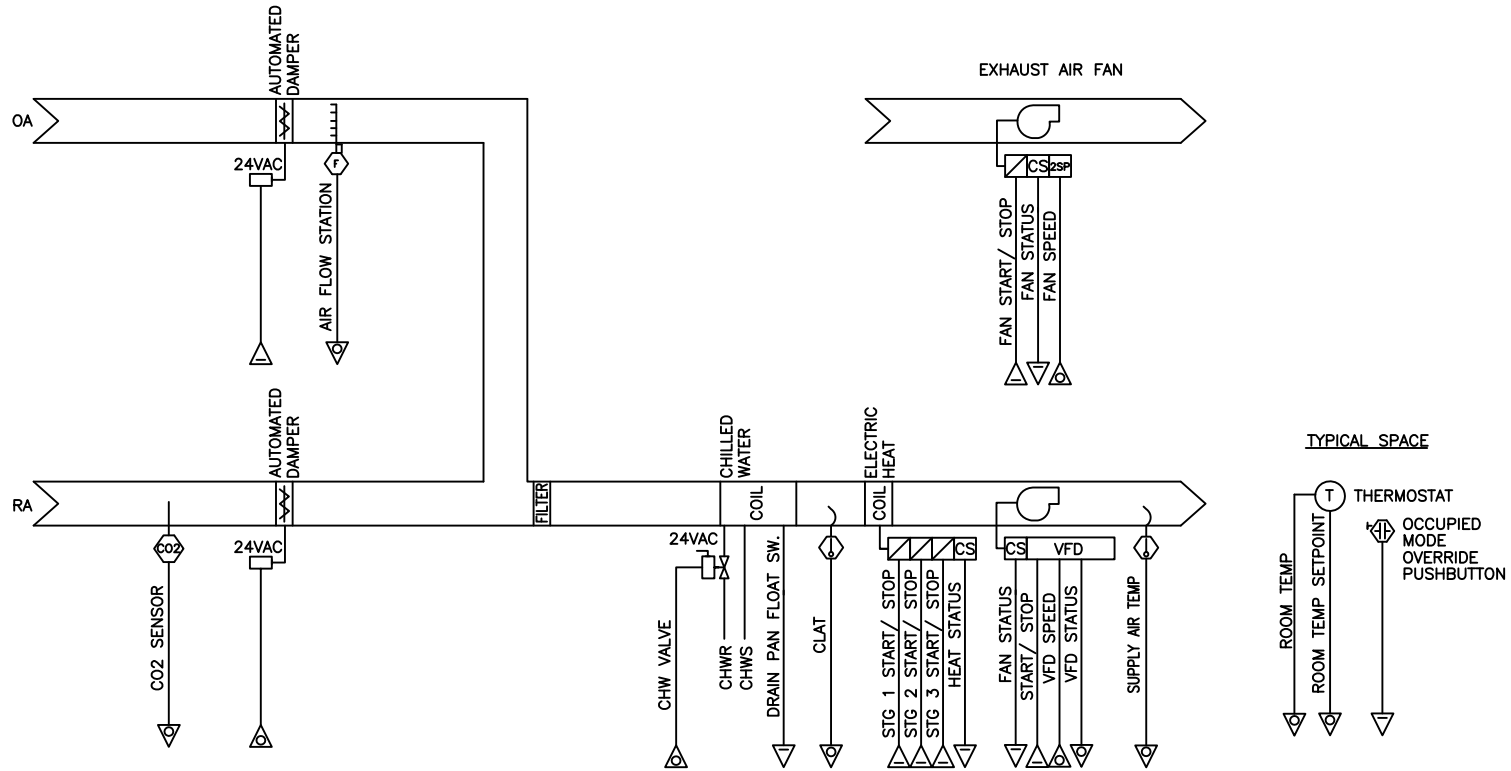
AHU, VAV W/ TERMINAL UNITS

NTS

NOTES:

1. TYPICAL FOR UNITS
 - a. AHU 5 - ADMIN
 - b. AHU 6 - MEDIA

DIAGRAM #2



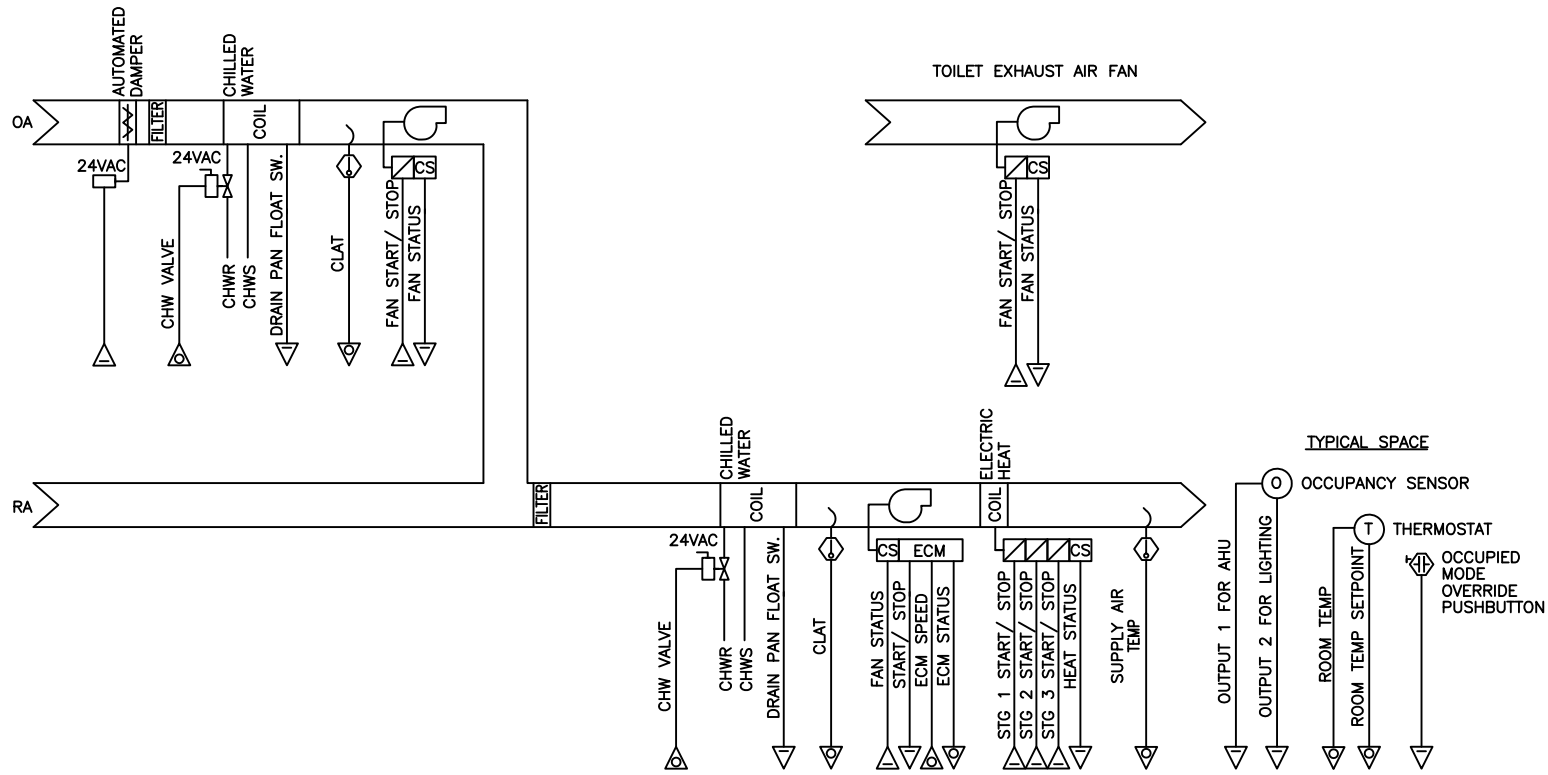
AHU, VAV No Terminal Units

NTS

NOTES:

1. TYPICAL FOR UNITS
 - a. BCU 1-1 THRU 2-9
 - b. AHU 1 - GYM
 - c. AHU 2 - LOCKER ROOMS
 - d. AHU 3 - KITCHEN
 - e. AHU 4 - DINING

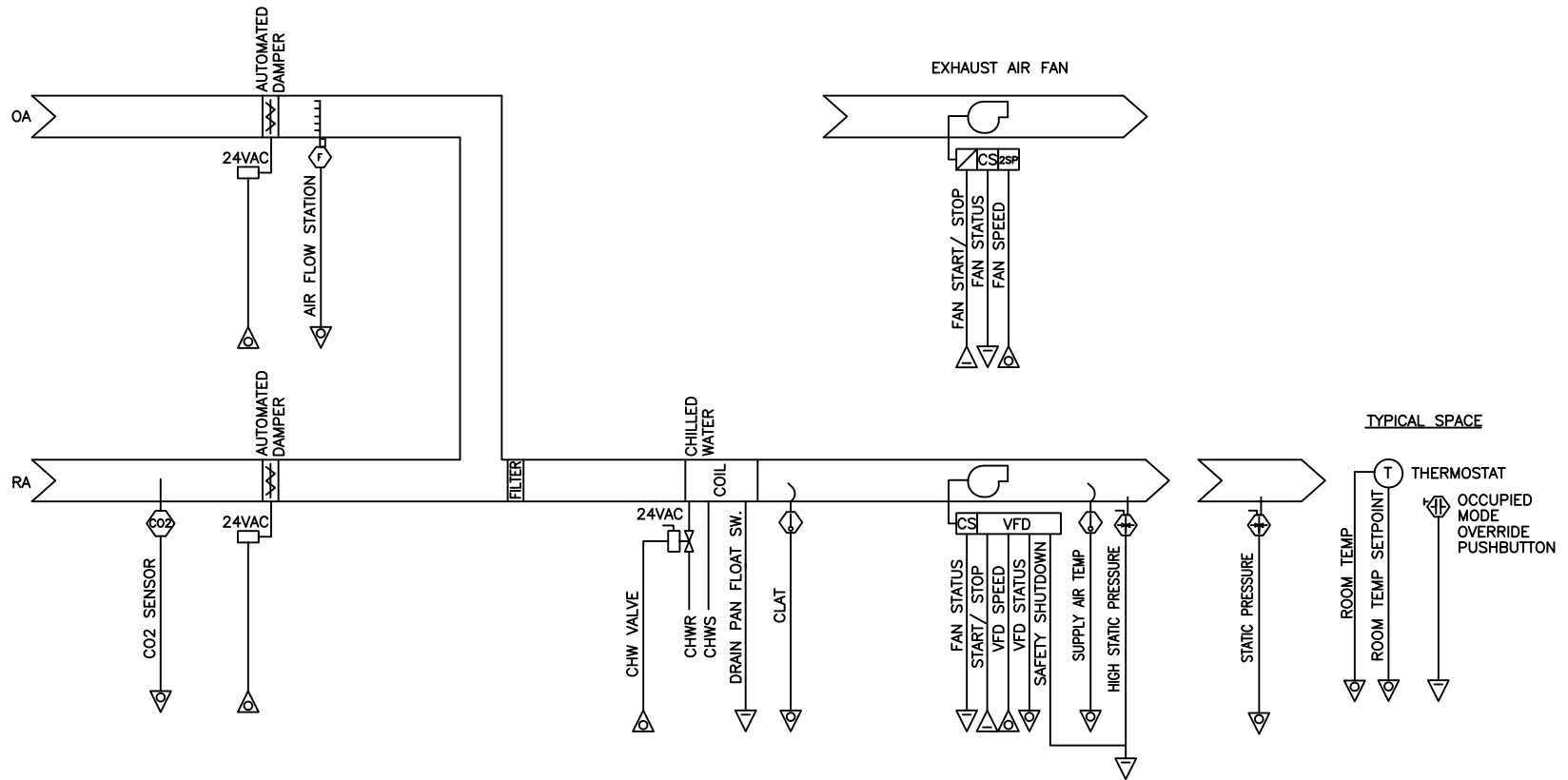
DIAGRAM #3



CLASSROOM AIR HANDLING UNIT (TYPICAL)

NTS

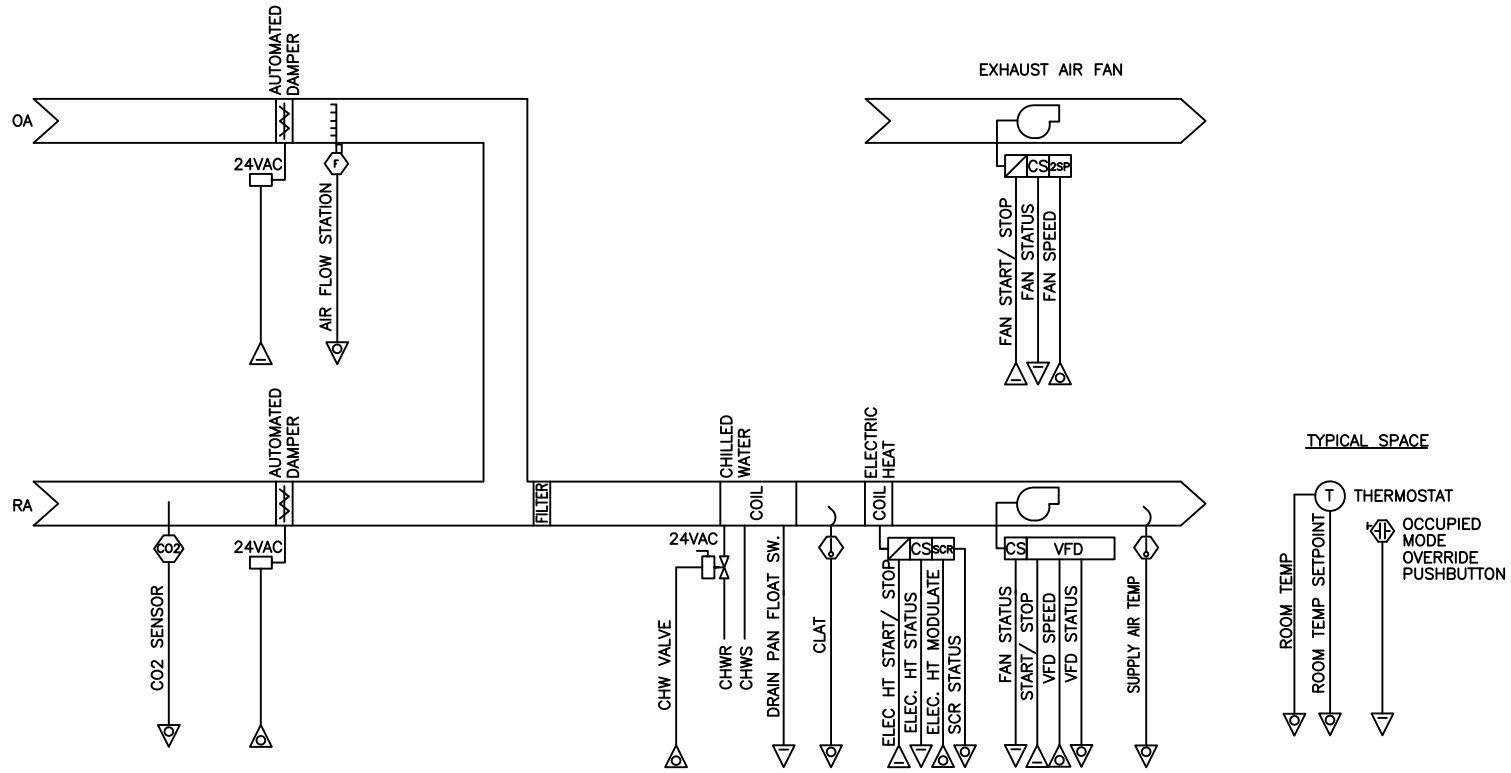
DIAGRAM #4



AHU, VAV W/ TERMINAL UNITS (SCR)

NTS

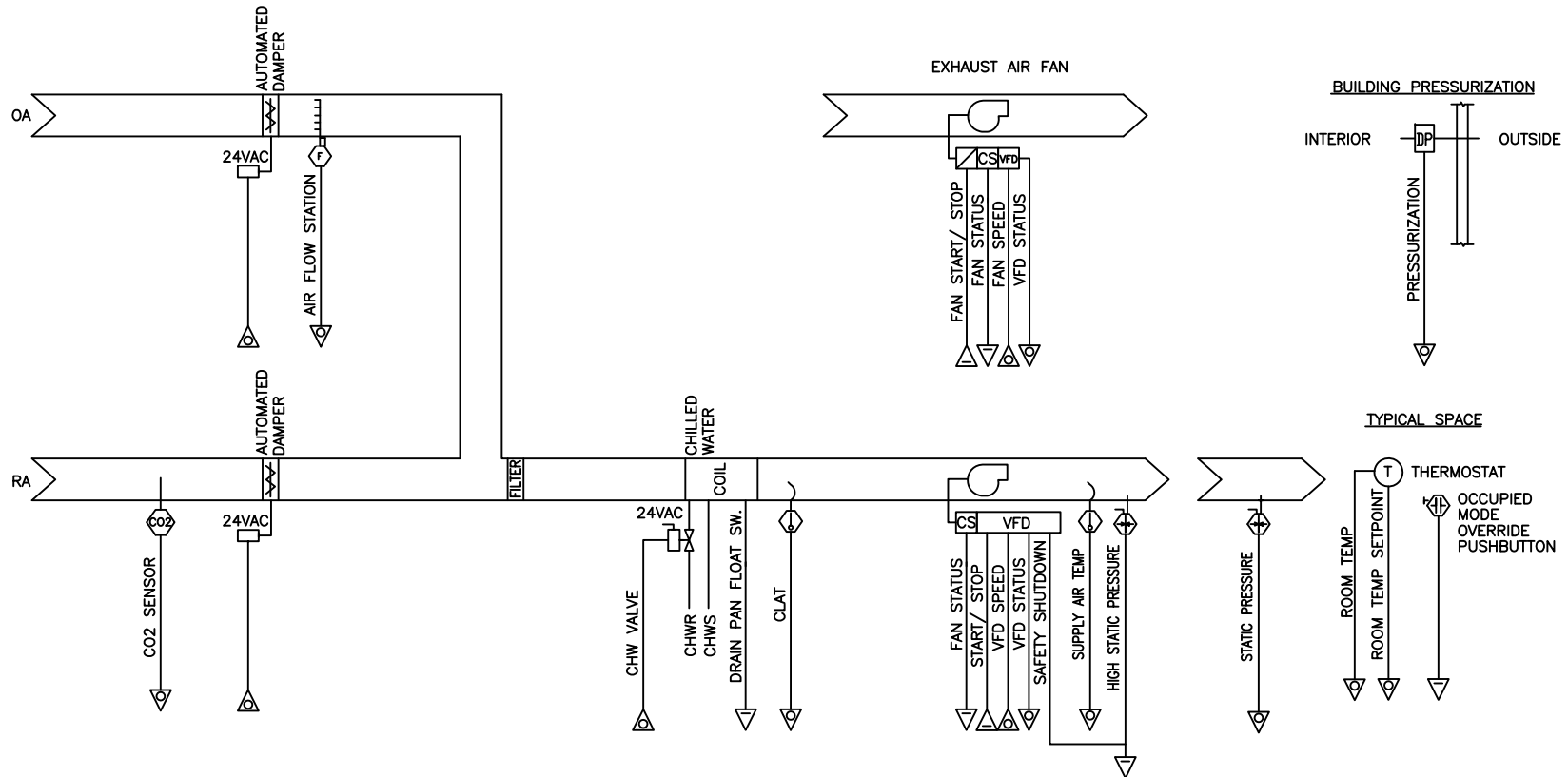
DIAGRAM #5



AHU, VAV No Terminal Units (SCR)

NTS

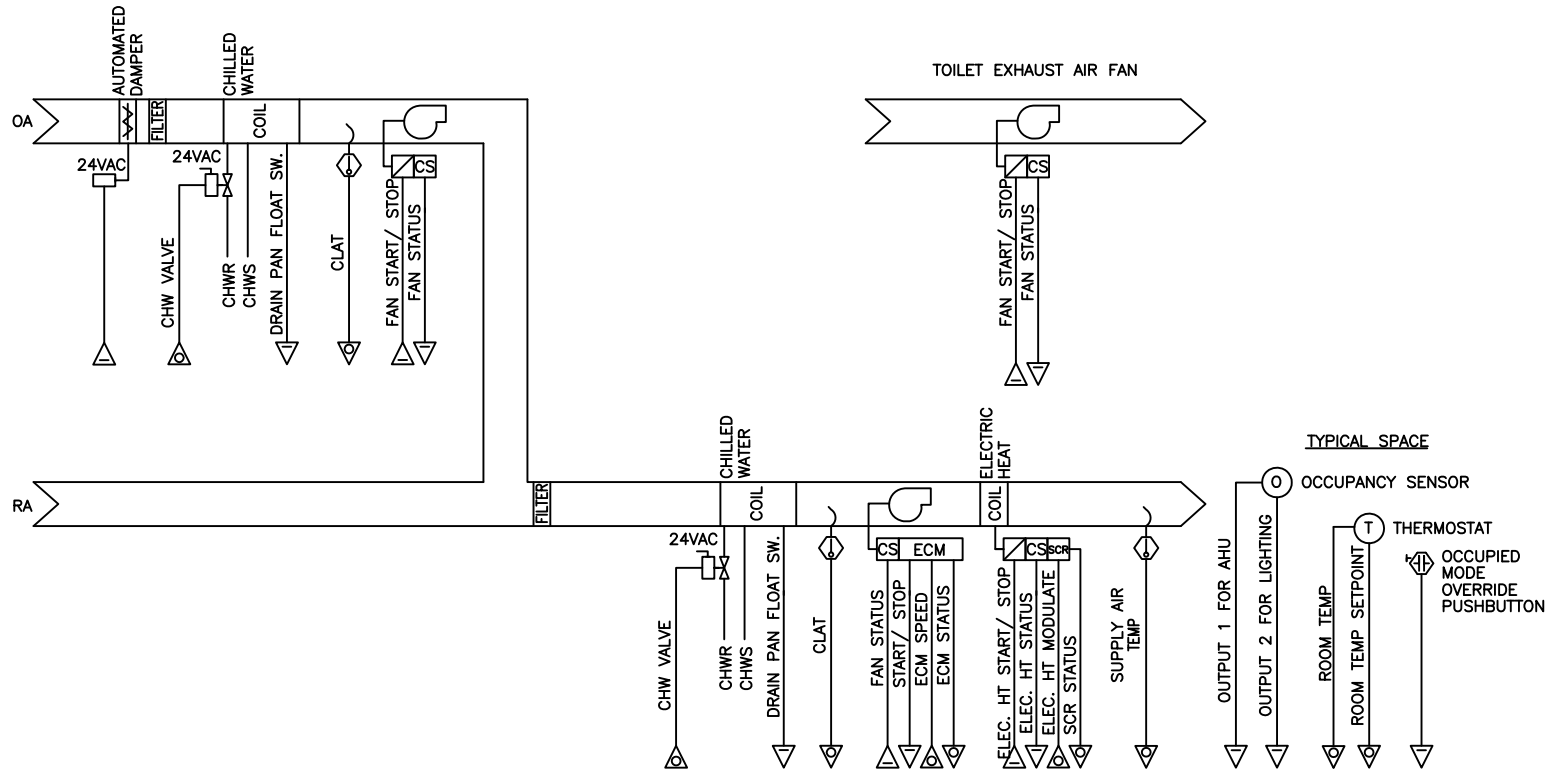
DIAGRAM #6



AHU, VAV W/ TERMINAL UNITS, BUILDING PRESSURIZATION

NTS

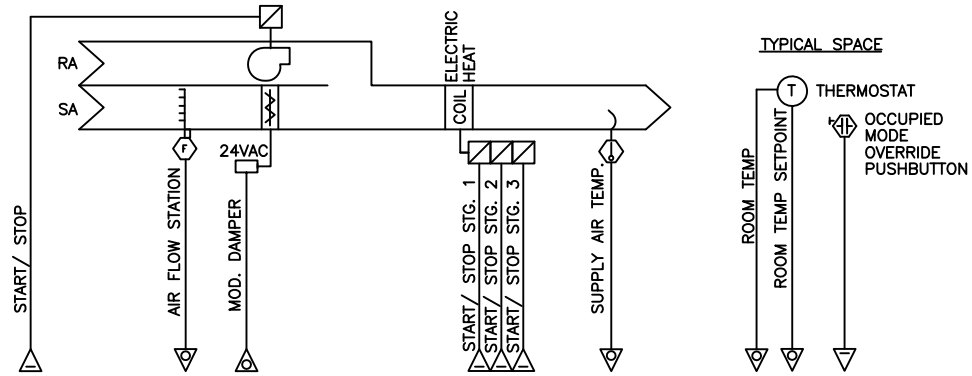
DIAGRAM #7



CLASSROOM AIR HANDLING UNIT (TYPICAL) (SCR)

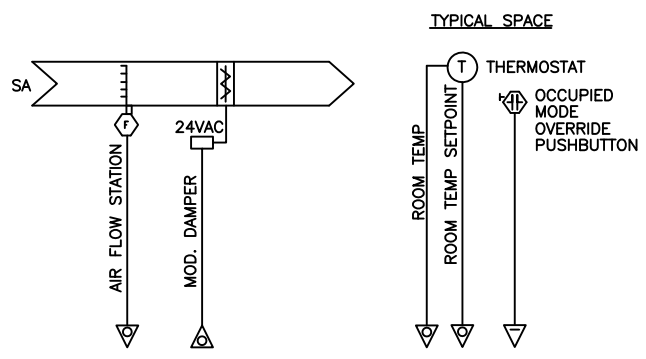
NTS

DIAGRAM #8



TERMINAL UNIT - PARALLEL FAN POWERED VAV

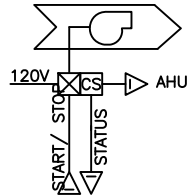
NTS



TERMINAL UNIT - VAV

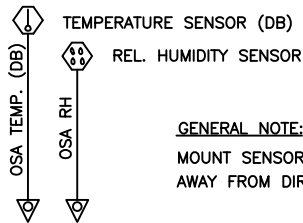
NTS

DIAGRAM #9



BATHROOM EXH. (TYPICAL)

NTS



GENERAL NOTE:

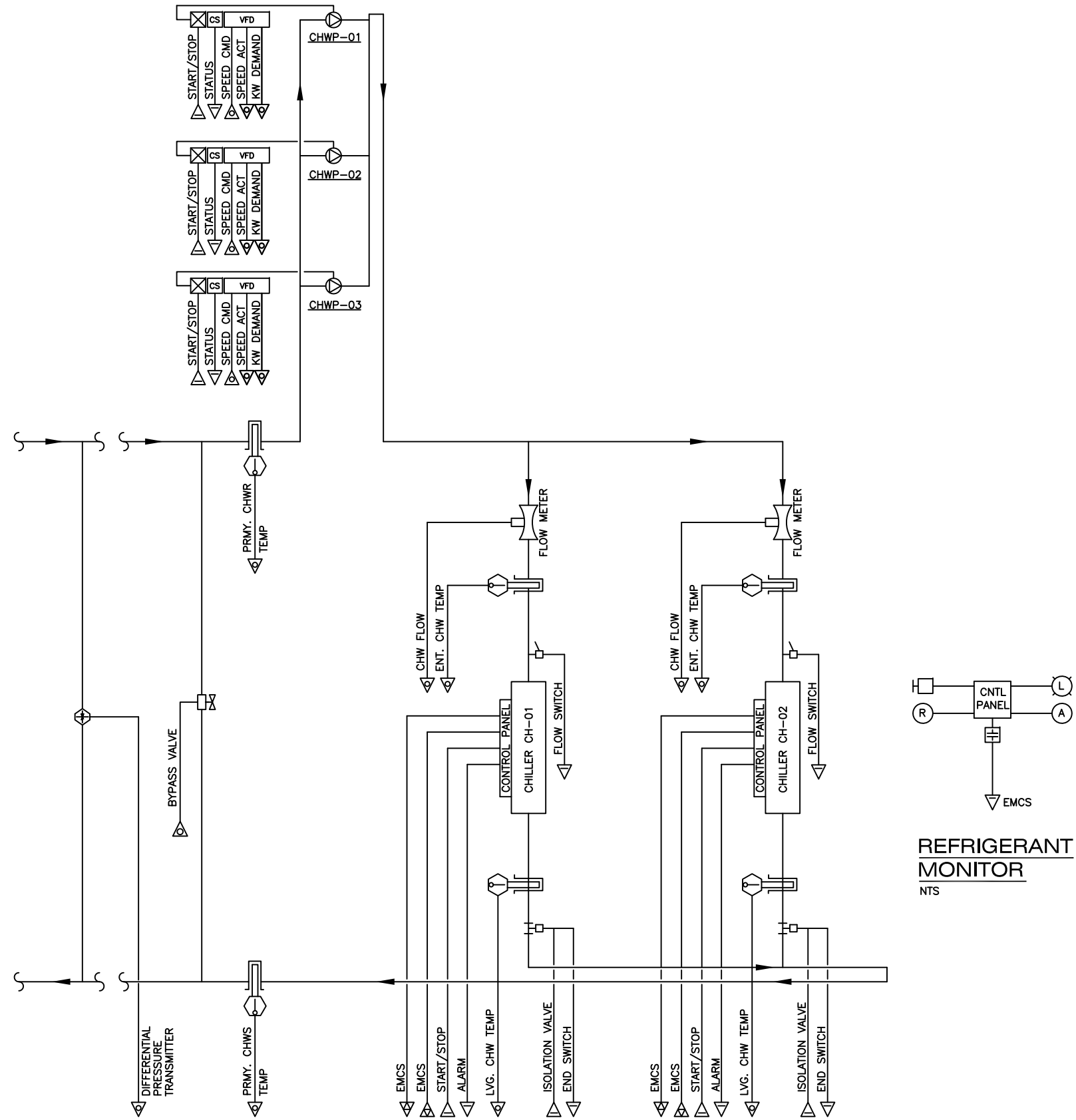
MOUNT SENSORS TO BUILDING EXTERIOR
AWAY FROM DIRECT EXPOSURE TO SUN

FACILITY OSA CONDITIONS

NTS

CONTROLS LEGEND

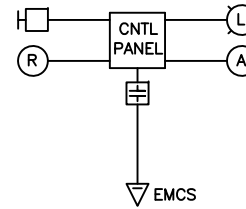
	ALARM		PUMP - ARROW INDICATES DIRECTION OF FLOW
	DIGITAL INPUT TO FAMS CONTROLLER		PRESSURE TRANSMITTER
	DIGITAL OUTPUT FROM FAMS CONTROLLER		BALANCING VALVE
	ANALOG INPUT TO FAMS CONTROLLER		FUSED DISCONNECT
	ANALOG OUTPUT FROM FAMS CONTROLLER		24VAC POWER
	COMMUNICATIONS INPUT TO FAMS CONTROLLER		EQUIPMENT DESIGNATION
	COMMUNICATIONS OUTPUT FROM FAMS CONTROLLER		DIFFERENTIAL PRESSURE SENSOR TRANSMITTER
	DRY CONTACT - NORMALLY OPEN		BUILDING PULSE DEMAND METER
	CURRENT SENSING STATUS SWITCH		FLOW SWITCH
	CURRENT SENSING TRANSMITTER		COMPRESSED AIR/PRESSURE TRANSMITTER
	START/STOP CONTACT		SAIL SWITCH
	INTERFACE MODULE		REFRIGERANT SENSOR
	SMOKE DETECTOR		OCCUPANCY SENSOR
	FLOW METER		THERMOSTAT
	DUCT OR CHW TEMPERATURE SENSOR		WATER METER
	CO2 SENSOR		MOTORIZED VALVE
	AIR FLOW SENSOR		DIFFERENTIAL PRESSURE TRANSMITTER DIGITAL
	STATIC PRESSURE TRANSMITTER		ALARM
	STATIC PRESSURE TRANSMITTER		EMERGENCY PUSHBUTTON
	24VAC ACTUATOR		AMBER LIGHT
	2-WAY VALVE W/ ACTUATOR		IMMERSION TEMPERATURE TRANSMITTER WITH THERMOWELL
	3-WAY VALVE W/ ACTUATOR		
	SPACE TEMPERATURE SENSOR		
	SPACE RH SENSOR		
	PUSH-BUTTON SWITCH		



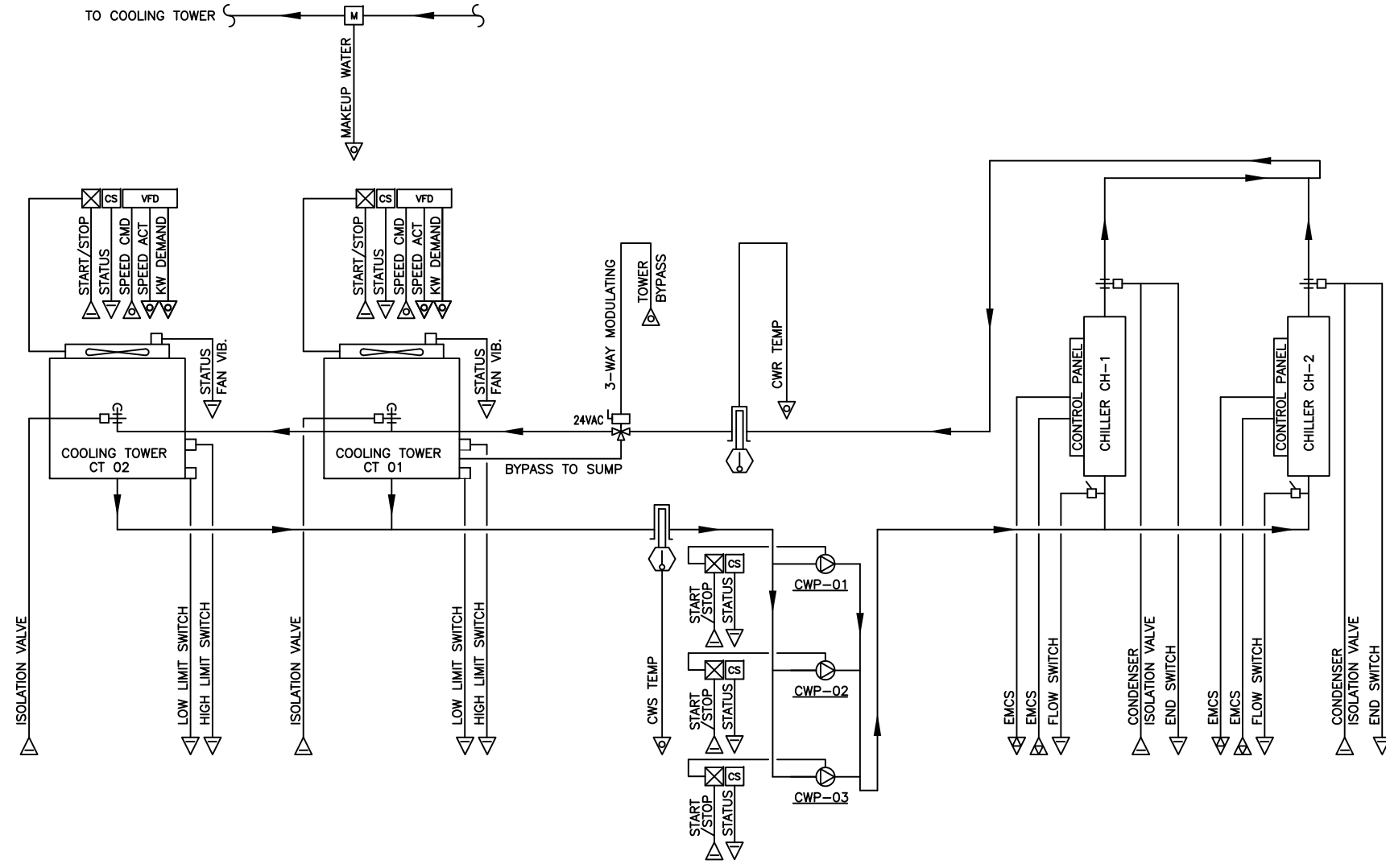
CHILLED WATER CONTROL DIAGRAM
NTS

GENERAL NOTES:

1. CONNECT CONDENSER AND EVAPORATOR FLOW SWITCH CONTACT TO BOTH THE CHILLER CONTROL PANEL AS WELL AS EMCS. TYPICAL FOR ALL CHILLERS.
2. POINTS LISTED AS EMCS/ INTERFACE REPRESENT BI-DIRECTIONAL COMMUNICATIONS INTERFACE BETWEEN CHILLER CONTROL PANEL AND EMCS. COMMUNICATIONS BUS SHALL BE UTILIZED FOR REMOTE SETPOINT ADJUST, CHW ENTERING AND LEAVING TEMPERATURES, INSTANTANEOUS POWER CONSUMPTION, ALL ALARMS AND ANY OTHER POINTS LISTED IN THE POINTS LIST OR SPECIFICATIONS. TYPICAL FOR ALL CHILLERS.



REFRIGERANT MONITOR
NTS



CONDENSER WATER CONTROL DIAGRAM

NTS

GENERAL NOTES:

1. CONNECT CONDENSER AND EVAPORATOR FLOW SWITCH CONTACT TO CHILLER CONTROL PANEL AS WELL AS EMCS. TYPICAL FOR ALL CHILLERS.
2. POINTS LISTED AS EMCS/ INTERFACE REPRESENT BI-DIRECTIONAL COMMUNICATIONS INTERFACE BETWEEN CHILLER CONTROL PANEL AND EMCS. COMMUNICATIONS BUS SHALL BE UTILIZED FOR REMOTE SETPOINT ADJUST, CHW ENTERING AND LEAVING TEMPERATURES, INSTANTANEOUS POWER CONSUMPTION, ALL ALARMS AND ANY OTHER POINTS LISTED IN THE POINTS LIST OR SPECIFICATIONS. TYPICAL FOR ALL CHILLERS.