

REFER TO SPECIFICATION 23 09 00 FOR CONTROLS
RELATED INSTALLATION REQUIREMENTS.

REFER TO SPECIFICATION 23 09 03 FOR SEQUENCE OF
OPERATION.

REFER TO ELECTRICAL PROJECT SPECIFICATIONS FOR
ALL WIRING INSTALLATION REQUIREMENTS.

INSTALL FLEXIBLE CONNECTIONS IN RUNS OF
STRINGS, CABLES, WIRES, CABLE TRAYS, AND
BUSWAYS TO ALLOW FOR THERMAL EXPANSION, CONTRACTION,
SEISMIC JOINTS, OR ARE SUBJECT TO STRUCTURAL
MOVEMENT. FLEXIBLE CONNECTIONS SHALL BE INSTALLED WHERE
THEY ARE REQUIRED TO ACCOMMODATE MOVEMENT OF
DIFFERENT STRUCTURAL ELEMENTS AND WHERE
THEY TERMINATE TO EQUIPMENT THAT IS ANCHORED
TO A SUPPORT. TO SUPPLY TO AN ANCHORED STRUCTURAL
ELEMENT, CONTRACTOR SHALL COORDINATE WITH
STRUCTURAL ENGINEER AND ARCHITECT TO DETERMINE
ORDER TO PROVIDE THE REQUIRED FLEXIBLE
CONNECTIONS.

CONTRACTOR SHALL COORDINATE INSTALLATION
ACTIVITIES WITH ALL OTHER CONTRACTORS
AND TRADES AS NEEDED. THIS INCLUDES COORDINATING
ALL TRADES AT ALL LOCATIONS. CONTRACTOR SHALL
OBTAIN WRITTEN REPAIR OR CORRECTION FOR ANY TENANT
REPAIRS TO BE INCURRED.

INSTALLATION OF ALL THERMOSTATS AND DIFFERENTIAL
PRESSURE SENSORS SHALL BE COORDINATED WITH ALL
OTHER WALL DEVICES FOR INSTALLATION HEIGHT
AND FIELD OF FLOOR.

CONTROL PANELS ARE FED FROM TWO SEPARATE
120VAC POWER SOURCES.

PERFORM FIELD COORDINATION WITH SYSTEM
INTEGRATOR ON ALL DETAILS.

CONTROLS AND ELECTRICAL CONTRACTORS TO
COORDINATE WITH ELEVATOR CONTRACTOR FOR
CABLEING WITH TELECOM SPECIFICATIONS.

1	120VAC POWER CIRCUITS (BY OTHERS) FROM THE LOW VOLTAGE ELECTRICAL CONTROL PANEL SHALL PROVIDE CONTROL PANEL CIRCUITS SHALL BE DEDICATED TO EACH PANEL AND NOT SHARED WITH ANY OTHER PANEL OR PANELS. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL HARDWARE REQUIRED FOR THE ELECTRICAL CONTROL PANEL OPERATION ON ANY COMPONENT OR SOURCE FAILURE SHALL BE SEEN TO NOT CAUSE A LOSS OF CONTROL IN THE CONTROLLER OR INSTRUMENTATION OPERATION.
2	DATA HALL MANAGER CONTROL PANEL HARDWARE INSTRUMENTATION TO CONTROL PANEL FOR DATA HALL LOW VOLTAGE ELECTRICAL CONTROL PANEL. MECHANICAL EQUIPMENT CONTROL SEQUENCES INCLUDE INTEGRATION OF ASSOCIATED MECHANICAL EQUIPMENT.
3	EMPS CONTROL PANEL INCLUDE ANY APPROPRIATE GATEWAYS) FOR FULL INTEGRATION OF ASSOCIATED COMBINATION HEATING AND COOLING HVAC EQUIPMENT.
4	ADMIN SPACE CONTROL PANEL INCLUDE ANY APPROPRIATE GATEWAYS) FOR FULL INTEGRATION OF ASSOCIATED COMBINATION HEATING AND COOLING HVAC EQUIPMENT.
5	CHILLER PLANT MANAGER CONTROL PANEL HARDWARE INSTRUMENTATION TO CONTROL PANEL FOR CHILLER PLANT HEATING AND COOLING HVAC EQUIPMENT. PLANT-LEVEL SEQUENCES. CONTROL COMMANDS FOR CHILLER PLANT HEATING AND COOLING HVAC EQUIPMENT. CONTROL PANEL SHALL BE HARDWIRED. NETWORK COMMUNICATIONS SHALL ONLY BE USED FOR OPERATIONAL WARNING AND NOT FOR CONTROLLING.
6	BMS/EMPS CORE SWITCHES. AGGREGATE SWITCHES, PATCH PANELS, AND SUPERVISORY SERVERS FURNISH THE CHILLER PLANT HEATING AND COOLING HVAC EQUIPMENT IN A RACK IN THE MMR ROOM BY THE TELECOM CONTRACTOR. ALL NETWORK COMPONENTS SHALL BE REVIEWED AND APPROVED BY OWNER.
7	BMS/EMPS AGGREGATE SWITCHES AND PATCH PANELS FURNISHED BY THE CONTRACTORS CONTRACTOR AND THE CHILLER PLANT HEATING AND COOLING HVAC EQUIPMENT RACK BY THE TELECOM CONTRACTOR. ALL NETWORK COMPONENTS SHALL BE REVIEWED AND APPROVED BY OWNER.
8	MECHANICAL EQUIPMENT CONNECTED TO ASSOCIATED BMS SFC. CONTROLS CONTRACTOR TO COORDINATE WITH THE CONTRACTOR TO FINALIZE ALL NETWORK SWITCH CONNECTIONS AND PORT ALLOCATIONS.
9	ELECTRICAL EQUIPMENT CONNECTED TO ASSOCIATED EMPS SFC. CONTROLS CONTRACTOR TO COORDINATE WITH THE CONTRACTOR TO FINALIZE ALL NETWORK SWITCH CONNECTIONS AND PORT ALLOCATIONS.
10	PURGING GARGLE CARBON MONOXIDE SENSOR AND HORNINGS ROVER. CARBON MONOXIDE CONTRACTOR TO INTERFACE WITH THE BMS SFC AND AN EXHAUST FAN BASED ON CARBON MONOXIDE SENSOR.
11	CONTRACTOR SHALL FURNISH 120V DAMPER ACTUATORS) FOR LOUVER. DAMPER ACTUATORS) TO OPERATE THE LOUVER DAMPER ACTUATORS) BY ELECTRIC CONTRACTOR. 120V POWER PROVIDED BY THE CONTRACTOR. REFERENCE ARCHITECTURAL PLANS FOR LOUVER DAMPER ACTUATORS).
12	CONTROL CONTRACTOR SHALL PROVIDE LOUVER POSITION CONTROL AT THE BMS. REFERENCE SEQUENCE OF OPERATIONS.
13	CONTRACTOR SHALL INTERLOCK DAMPER POSITION CONTROL AT THE BMS. REFERENCE SEQUENCE OF OPERATIONS. THE CONTRACTOR SHALL BE FAST ACTION, POWER-CLOSED, AND OPEN. GARGLE CARBON MONOXIDE SENSOR AND HORNINGS ROVER. CARBON MONOXIDE CONTRACTOR TO INTERFACE WITH THE BMS SFC AND AN EXHAUST FAN BASED ON CARBON MONOXIDE SENSOR. PURGING GARGLE CARBON MONOXIDE SENSOR AND HORNINGS ROVER. CARBON MONOXIDE CONTRACTOR TO INTERFACE WITH THE BMS SFC AND AN EXHAUST FAN BASED ON CARBON MONOXIDE SENSOR.
14	COMBINATION FIRE/SMOKE DAMPER FURNISHED WITH OPEN AND CLOSED END SWITCHES. MONITOR DAMPER POSITION AT THE BMS.
15	BMS SHALL MONITOR HOT ASILE CONTAMINANT SYSTEM DIFFERENTIAL PRESSURE, TEMPERATURE, AND RELATIVE HUMIDITY. REFERENCE SDC 1.8 ON SHEET 205 OF PROJECT MANUAL. MONITOR HOT ASILE CONTAMINANT SYSTEM DIFFERENTIAL PRESSURE, TEMPERATURE, AND RELATIVE HUMIDITY. REFERENCE SDC 1.8 ON SHEET 205 OF PROJECT MANUAL. MONITOR HOT ASILE CONTAMINANT SYSTEM DIFFERENTIAL PRESSURE, TEMPERATURE, AND RELATIVE HUMIDITY. REFERENCE SDC 1.8 ON SHEET 205 OF PROJECT MANUAL.
16	ELECTRICAL ROOM TEMPERATURE SENSOR SHALL BE CONTROL MOUNTED FROM CEILING 7'2" AFF.
17	LEAK DETECTION ROPE SHALL BE FURNISHED WITH SENSORS AND SENSORS INSTALLED TO MONITOR LEAKS AT EACH UNIT.

[illegible][illegible]

NOT FOR CONSTRUCTION

SF - ARK01
DESIGN DEVELOPMENT

CLARKSVILLE, AR 72830

L	K	J	
G	E	C	A
H	F	D	B
P	N	M	

JOB US0049903.5614
SHEET

IC02-01M

