

3. REFER TO SPECIFICATION 23 09 00 FOR CONTROLS RELATED INSTALLATION REQUIREMENTS.
4. REFER TO SPECIFICATION 23 09 05 FOR SEQUENCE OF OPERATIONS.
5. REFER TO ELECTRICAL PROJECT SPECIFICATIONS FOR ALL WIRING INSTALLATION REQUIREMENTS.
6. INSTALL FLEXIBLE CONNECTIONS IN RUNS OF RACEWAYS, CABLES, WIRES/WIRES, CABLE TRAYS, AND SUBSYSTEMS. FLEXIBLE CONNECTIONS ARE REQUIRED AT SEISMIC JOINTS, OR ARE SUBJECT TO STRUCTURAL, DESIGN, OR INTERFERRY BUILDING DEPT. FLEXIBLE CONNECTIONS SHALL BE INSTALLED WHERE ADJACENT SECTIONS OF RACEWAYS ARE SUPPORTED BY DIFFERENT STRUCTURES OR WHERE THERE THEY TERMINATE TO EQUIPMENT THAT IS ANCHORED TO THE BUILDING STRUCTURE OR FOUNDATION. ELEMENT CONTRACTOR SHALL COORDINATE WITH STRUCTURAL AND/OR ARCHITECT AS REQUIRED IN ORDER TO PROVIDE THE REQUIRED FLEXIBLE CONNECTIONS.
7. CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL OTHERS. OTHER CONTRACTORS AND OTHER TRADES AS NEEDED. THIS INCLUDES COORDINATING FINAL LOCATION OF ALL DEVICES WITH THE OWNER PERMIT TO INCORPORATE ANY TENANT REQUIREMENTS FOR SENSORS.
8. INSTALLATION OF ALL THERMOSTATS AND DIFFERENTIAL TEMPERATURE SENSORS SHALL BE COORDINATED WITH ALL OTHER WALL DEVICES FOR INSTALLATION HEIGHT AND LOCATION ON FLOOR.
9. CONTROL PANELS ARE TIED FROM TWO SEPARATE 120VAC POWER SOURCES.
10. PROVIDE FIELD COORDINATION WITH SYSTEM INTEGRATOR ON ALL PANELS.
11. CONTROLS AND ELECTRICAL CONTRACTORS TO COORDINATE ALL ETHERNET CORDSET AND FIBER CABLES, AND TELECOM.

1	DUAL 120VAC POWER CIRCUITS (BY OTHERS) FROM DIVERSE UPS PANELS TO CONTROL CONTRACTOR PROVIDED DAMPER, SMOKE DETECTOR, AND SIGNAL ACTUATOR SHALL BE PROVIDED TO EACH PANEL AND NOT SHARED WITH ANY OTHER DAMPER, SMOKE DETECTOR, OR SIGNAL ACTUATOR. PROVIDER SHALL PROVIDE AND INSTALL ALL HARDWARE REQUIRED TO WIRE THE DAMPER, SMOKE DETECTOR, AND SIGNAL ACTUATOR TO THE DAMPER, SMOKE DETECTOR, OR SIGNAL ACTUATOR. NO UNNECESSARY COMPONENT OR CAUSE FAILURE SHALL BE SEAMLESS AND NOT CAUSE ANY INTERRUPTION IN THE DAMPER, SMOKE DETECTOR, OR SIGNAL ACTUATOR.
2	DATA HALL MANAGER CONTROL PANEL HARDWARE INSTRUMENTATION TO CONTROL PANEL FOR DATA HALL MANAGER. PROVIDER SHALL PROVIDE AND INSTALL ALL MECHANICAL, ELECTRIC, AND CONTROL SEQUENCES. INCLUDE ANY INTEGRATION OF ASSOCIATED HARDWARE AND EQUIPMENT.
3	EPMS CONTROL PANEL INCLUDE ANY APPROPRIATE GATEWAYS(FOR FULL INTEGRATION OF ASSOCIATED CONTROL SEQUENCES AND COOLING HVAC EQUIPMENT).
4	ADMIN SPACE CONTROL PANEL INCLUDE ANY APPROPRIATE GATEWAYS(FOR FULL INTEGRATION OF ASSOCIATED CONTROL HEATING AND COOLING HVAC EQUIPMENT).
5	CHILLER PLANT MANAGER CONTROL PANEL HARDWARE INSTRUMENTATION TO CONTROL PANEL FOR CHILLER PLANT MANAGER. PROVIDER SHALL PROVIDE AND INSTALL ALL MECHANICAL, ELECTRIC, AND CONTROL SEQUENCES. CONTROL COMMANDS FROM THE CHILLER PLANT MANAGER TO THE CHILLER LEADUP CHILLER SHALL ONLY BE USED FOR CHILLER LEADUP CHILLER. NO OTHER NETWORK COMMUNICATION SHALL ONLY BE USED FOR CHILLER LEADUP CHILLER.
6	BMS/EPMS CORE SWITCHES, AGGREGATE SWITCHES, PATCH PANELS, AND SUPERVISORY SERVERS FURNISHED BY THE CONTROLS CONTRACTOR AND SHALL BE INSTALLED IN THE TELECOM RACK. THE TELECOM CONTRACTOR, ALL NETWORK COMPONENTS SHALL BE REVIEWED AND APPROVED BY THE BMS/EPMS CONTRACTOR.
7	BMS/EPMS AGGREGATE SWITCHES AND PATCH PANELS FURNISHED BY THE CONTROLS CONTRACTOR AND SHALL BE INSTALLED IN THE DCM CABINET IN THE TELECOM RACK. THE TELECOM CONTRACTOR, ALL NETWORK COMPONENTS SHALL BE REVIEWED AND APPROVED BY THE BMS/EPMS CONTRACTOR.
8	MECHANICAL EQUIPMENT CONNECTED TO ASSOCIATED BMS SGP. CONTROLS CONTRACTOR TO COORDINATE WITH OWNER IT TO FINALIZE EXACT NETWORK SWITCH CONNECTIONS AND PORT ALLOCATIONS.
9	ELECTRICAL EQUIPMENT CONNECTED TO ASSOCIATED EPMS SGP. CONTROLS CONTRACTOR TO COORDINATE WITH OWNER IT TO FINALIZE EXACT NETWORK SWITCH CONNECTIONS AND PORT ALLOCATIONS.
10	PARKING GARAGE CARBON MONOXIDE SENSOR AND HORN/STROBE. CONTROLS CONTRACTOR TO INTERFACE WITH THE GARAGE SGP AND HORN/STROBE. PROVIDER SHALL PROVIDE AND INSTALL ALL HARDWARE REQUIRED TO WIRE THE EXHAUST FAN BASE ON CARBON MONOXIDE SENSOR.
11	CONTROLS CONTRACTOR SHALL PROVIDE 120V DAMPER ACTUATOR(S) FOR LOUVER. DAMPER ACTUATOR(S) TO BE INSTALLED ON LOUVER BY MECHANICAL CONTRACTOR. PROVIDER SHALL PROVIDE ELECTRICAL CONTRACTOR. REFERENCE ARCHITECTURAL PLANS FOR LOUVER.
12	CONTROL CONTRACTOR SHALL PROVIDE LOUVER POSITION CONTROL IN BMS. REFERENCE SEQUENCE OF OPERATIONS.
13	CONTROLS CONTRACTOR SHALL INTERLOCK DAMPER POSITION CONTROL TO ASSOCIATED SMOKE DETECTOR. SIGNAL ACTUATOR SHALL BE FAST ACTION, POWER-CLOSED. PROVIDER SHALL PROVIDE AND INSTALL ALL HARDWARE REQUIRED TO WIRE THE DAMPER POSITION CONTROL. PROVIDER SHALL PROVIDE AND INSTALL ALL HARDWARE REQUIRED TO WIRE THE DAMPER POSITION CONTROL. PROVIDER SHALL PROVIDE AND INSTALL ALL HARDWARE REQUIRED TO WIRE THE DAMPER POSITION CONTROL. PROVIDER SHALL PROVIDE AND INSTALL ALL HARDWARE REQUIRED TO WIRE THE DAMPER POSITION CONTROL.
14	COMBINATION FIRE/SMOKE DAMPER FURNISHED WITH OPEN AND CLOSED END SWITCHES. MONITOR DAMPER POSITION AT BMS.
15	BMS SHALL MONITOR TEMPERATURE, HUMIDITY, AND RELATIVE HUMIDITY. CONTROL DETAIL: 8" X SHEET PAPER. PROVIDER SHALL PROVIDE AND INSTALL ALL HARDWARE REQUIRED TO WIRE THE TEMPERATURE, HUMIDITY, AND RELATIVE HUMIDITY. PROVIDER SHALL PROVIDE AND INSTALL ALL HARDWARE REQUIRED TO WIRE THE TEMPERATURE, HUMIDITY, AND RELATIVE HUMIDITY. PROVIDER SHALL PROVIDE AND INSTALL ALL HARDWARE REQUIRED TO WIRE THE TEMPERATURE, HUMIDITY, AND RELATIVE HUMIDITY. PROVIDER SHALL PROVIDE AND INSTALL ALL HARDWARE REQUIRED TO WIRE THE TEMPERATURE, HUMIDITY, AND RELATIVE HUMIDITY.
16	ELECTRICAL ROOM TEMPERATURE SENSOR SHALL BE CONTROL MOUNTED FROM CEILING 12' AFF.
17	LEAK DETECTION ROPE SHALL BE FURNISHED WITH EACH FLOOR AND UNITS AND INSTALLED TO MONITOR LEAKS AT EACH FLOOR.

NOT FOR CONSTRUCTION

CLARKSVILLE. AR 72830

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