

1. REFER TO SPECIFICATION 23 09 00 FOR CONTROLS RELATED INSTALLATION REQUIREMENTS
2. REFER TO SPECIFICATION 23 09 93 FOR SEQUENCE OF OPERATIONS.
3. REFER TO ELECTRICAL PROJECT SPECIFICATIONS FOR ALL WIRING INSTALLATION REQUIREMENTS.
4. INSTALL FLEXIBLE CONNECTIONS IN RUNS OF RACEWAYS, CABLES, WIREWAYS, CABLE TRAYS, AND CABLES WHERE THE TRAYS, CABLES, OR CABLES, SEISMIC JOINTS, ARE OR ARE SUBJECT TO STRUCTURAL DEFLECTIONS OR INTERFERE WITH BUILDING DRIFT.
5. FLEXIBLE CONNECTION SHALL BE INSTALLED WHERE ADJACENT SECTIONS OF RACEWAYS ARE SUPPORTED BY DIFFERENT STRUCTURAL MEMBERS OR WHERE THEY TERMINATE TO EQUIPMENT THAT IS ANCHORED OR SUPPORTED TO A DIFFERENT STRUCTURAL ELEMENT. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL AND/OR MECHANICAL ENGINEERS IN ORDER TO PROVIDE THE REQUIRED FLEXIBLE CONNECTIONS.
6. CONTRACTOR SHALL COORDINATE INSTALLATION OF EQUIPMENT WITH OTHER CONTRACTORS AND OTHER TRADES AS NEEDED. THIS INCLUDES COORDINATING WITH LABOR LOCALITIES AND WITH THE CONTRACTOR WITH OWNER REP TO INCORPORATE ANY TENANT REQUIREMENTS FOR NON-SERIES.
7. INSTALLATION OF ALL THERMOSTATS AND DIFFERENTIAL TEMPERATURE SENSORS SHALL BE COORDINATED WITH ALL OTHER TRADES BEFORE FOR INSTALLATION HEIGHT ABOVE FINISHED FLOOR.
8. CONTROL PANELS ARE FED FROM TWO SEPARATE 120VAC POWER SOURCES.
9. PROVIDE FIELD COORDINATION WITH SYSTEM INTEGRATOR ON ALL PANELS.
10. CONTROLS AND ELECTRICAL CONTRACTORS TO COORDINATE ALL ETHERNET COPPER AND FIBER CABLE WITH TELECOM CONTRACTOR.

- 1 DUAL 120VAC POWER CIRCUITS (BY OTHERS) FROM DIVERSE UPS PANELS TO CONTROL CONTRACTOR PROVIDED CONTROLS. CONTRACTOR SHALL BE DEDICATED TO EACH PANEL AND NOT SHARE WITH ANY OTHER PANELS OR EQUIPMENT. CONTRACTOR SHALL PROVIDE AND INSTALL ALL HARDWARE REQUIRED FOR REDUNDANT CONTROLLER AND INSTRUMENTATION PLANNED COMPONENTS. CONTRACTOR SHALL BE SEAMLESS AND NOT CAUSE ANY INTERRUPTION IN OPERATION OR INSTRUMENTATION.
- 2 DATA HALL MANAGER CONTROL PANEL, HARDWARE INSTRUMENTATION TO CONTROL PANEL FOR DATA HALL MONITORING AND AUTOMATIC CONTROL OF MECHANICAL EQUIPMENT. CONTRACTOR'S SERVICES INCLUDE ANY INTEGRATION OF ASSOCIATED EQUIPMENT.
- 3 EPMS CONTROL PANEL, INCLUDE ANY APPROPRIATE GATEWAYS) FOR FULL INTEGRATION OF ASSOCIATED CONTROL HEATING AND COOLING HVAC EQUIPMENT.
- 4 ADMIN SPACE CONTROL PANEL, INCLUDE ANY APPROPRIATE GATEWAY TO FULL INTEGRATION OF ASSOCIATED COMFORT HEATING AND COOLING HVAC EQUIPMENT.
- 5 CHILLER PLANT MANAGER CONTROL PANEL, HARDWARE INSTRUMENTATION TO CONTROL PANEL FOR CHILLER PLANT MONITORING AND AUTOMATIC CONTROL OF PLANNED SEQUENCING. CONTRACTOR SHALL ADVISE THE CHILLER PLANT MANAGER TO THE CHILLER LINEUP CONTROL PANELS SHALL BE USED FOR CHILLER PLANT COMMUNICATION SHALL ONLY BE USED FOR MONITORING, ALARMING, AND TROUBLESHOOTING.
- 6 BMS/EPMS CORE SWITCHES, AGGREGATE SWITCHES SWITCHES, AND PANELS, SHALL BE PROVIDED AND SUPPLIED BY THE CONTRACTORS AND PROVIDED TO THE CONTRACTOR. ALL NETWORK COMPONENTS SHALL BE REVIEWED AND APPROVED BY OWNER ITSELF.
- 7 BMS/EPMS AGGREGATE SWITCHES AND PATCH PANELS SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE INSTALLED IN THE DCIM CABINET IN THE CONTROL RISER RACK. THE TELECOM CONTRACTOR SHALL REVIEW ALL COMPONENTS SHALL BE REVIEWED AND APPROVED BY OWNER ITSELF.
- 8 MECHANICAL EQUIPMENT CONNECTED TO ASSOCIATED BMS/EPMS CONTROLS CONTRACTOR TO COORDINATE WITH OWNER IT TO FINALIZE EXACT NETWORK SWITCH CONNECTIONS AND PORTS.
- 9 ELECTRICAL EQUIPMENT CONNECTED TO ASSOCIATED EPMS/SCS CONTROLS CONTRACTOR TO COORDINATE WITH OWNER IT TO FINALIZE EXACT NETWORK SWITCH CONNECTIONS AND PORTS.

[illegible][illegible]

NOT FOR CONSTRUCTION

CLARKSVILLE, AR 72830

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

JOB US0049903.5614
SHEET

1 ROOF EQUIPMENT - CONTROLS PLAN - SEGMENT F
1/8" = 1'-0"