

ALL DUCTWORK, AIR DEVICES, & MECHANICAL EQUIPMENT IN HATCHED REGION ARE EXISTING TO REMAIN. EXISTING EQUIPMENT TO REMAIN TO BE SERVICED, REPLACE FILTERS, AND BE IN GOOD WORKING CONDITIONS

1 MAIN FLOOR MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES

- DRAWINGS SHOW GENERAL ARRANGEMENT OF PIPING, DUCTWORK, EQUIPMENT, ETC. FOLLOW AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND WORK OF OTHER TRADES WILL PERMIT. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES THAT MAY BE REQUIRED. INVESTIGATE STRUCTURAL AND FINISH CONDITIONS AFFECTING THIS WORK AND ARRANGE WORK ACCORDINGLY. PROVIDE SUCH FITTINGS, VALVES, AND ACCESSORIES REQUIRED TO MEET CONDITIONS.
- ALL DUCT DIMENSIONS SHOWN ARE CLEAR DIMENSIONS INSIDE DUCT LINER.
- DO NOT USE LINER INSIDE RETURN AIR DUCT RISERS IN 2"x6" WALLS OF PERIMETER ROOMS.
- WRAP ALL OUTSIDE AIR DUCTS WITH EXTERNAL INSULATION.
- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF GRILLES AND DIFFUSERS.
- ALL PVC EQUIPMENT VENTS, PLUMBING VENTS, AND PENTHOUSE EXHAUST VENTS SHALL BE PAINTED TO MATCH ROOF COLOR.
- MOUNT ALL DUCT SMOKE DETECTORS IN RETURN AIR STREAM ONLY. DO NOT MOUNT DOWNSTREAM OF MINIMUM OUTSIDE AIR CONNECTION.
- DO NOT ROUTE PIPES ABOVE ELECTRICAL PANELS. MAINTAIN CLEAR ACCESS SPACE IN FRONT OF ALL ELECTRICAL PANELS 4'-0" DEEP AND 6'-6" HIGH.
- SEE SHEET M102 FOR CONTINUATION OF ALL DUCT RISERS.
- COORDINATE WITH NATURAL GAS PIPING MAIN. SEE SHEET P102.

KEYED NOTES

- REFER TO SHEET M102 FOR CONTINUATION.
- COMPRESSOR UNIT. PROVIDE MINIMUM 2'-0" CLEAR ALL AROUND. PROVIDE 30" MINIMUM CLEARANCE AIR SERVICE SIDE. REFER TO SHEET M501 FOR REFRIGERANT PIPING SCHEME AND DETAILS. TYPICAL FOR ALL UNITS.
- ALL CEILING DIFFUSERS ARE 4-WAY BLOW UNLESS SHOWN OTHERWISE. TYPICAL.
- DUCT DROP IN CHASE
- INSTALL RIGID DUCT THROUGH FLOOR TO DIFFUSER. SEAL AT FLOOR PENETRATION.
- AIR TERMINAL / GRILLE EXISTING TO REMAIN. REBALANCE DEVICE TO NOTED CFM.

LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BRANCH DUCT TAKE-OFF SEE DETAIL A/M502		BDD - (BACK DRAFT DAMPER)	S/A	SUPPLY AIR
	SINGLE THICKNESS TURNING VANES		MANUAL VOLUME DAMPER	R/A	RETURN AIR/RELIEF AIR TO ERV's
	DUCT TRANSITION		FLEX. CONNECTION 6'-0" MAX LENGTH - SEE DETAIL F/M502	O/A	OUTSIDE AIR
	MOTORIZED DAMPER		DUCT SMOKE DETECTOR. INSTALL 12x12 ACCESS DOOR AT ALL LOCATIONS	T/A	TRANSFER AIR
(E)	EXISTING		CONNECT INTO EXISTING	F/A	FRESH AIR (ERV LABEL)
			SD-1	E/A	EXHAUST AIR
			DUCT SMOKE DETECTOR. INSTALL 12x12 ACCESS DOOR AT ALL LOCATIONS	AF	ABOVE FLOOR
			↑	SL UP	SLOPE UP OR DN
			L/A	L/A	LEAVING AIR (ERV)

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NEW - MEETINGHOUSE & PARKING
ADDITION PRAIRIE GROVE AR
ADDITION SPRINGDALE AR STAIRS
801 WEST BUCHANAN STREET
PRAIRIE GROVE, AR 72753

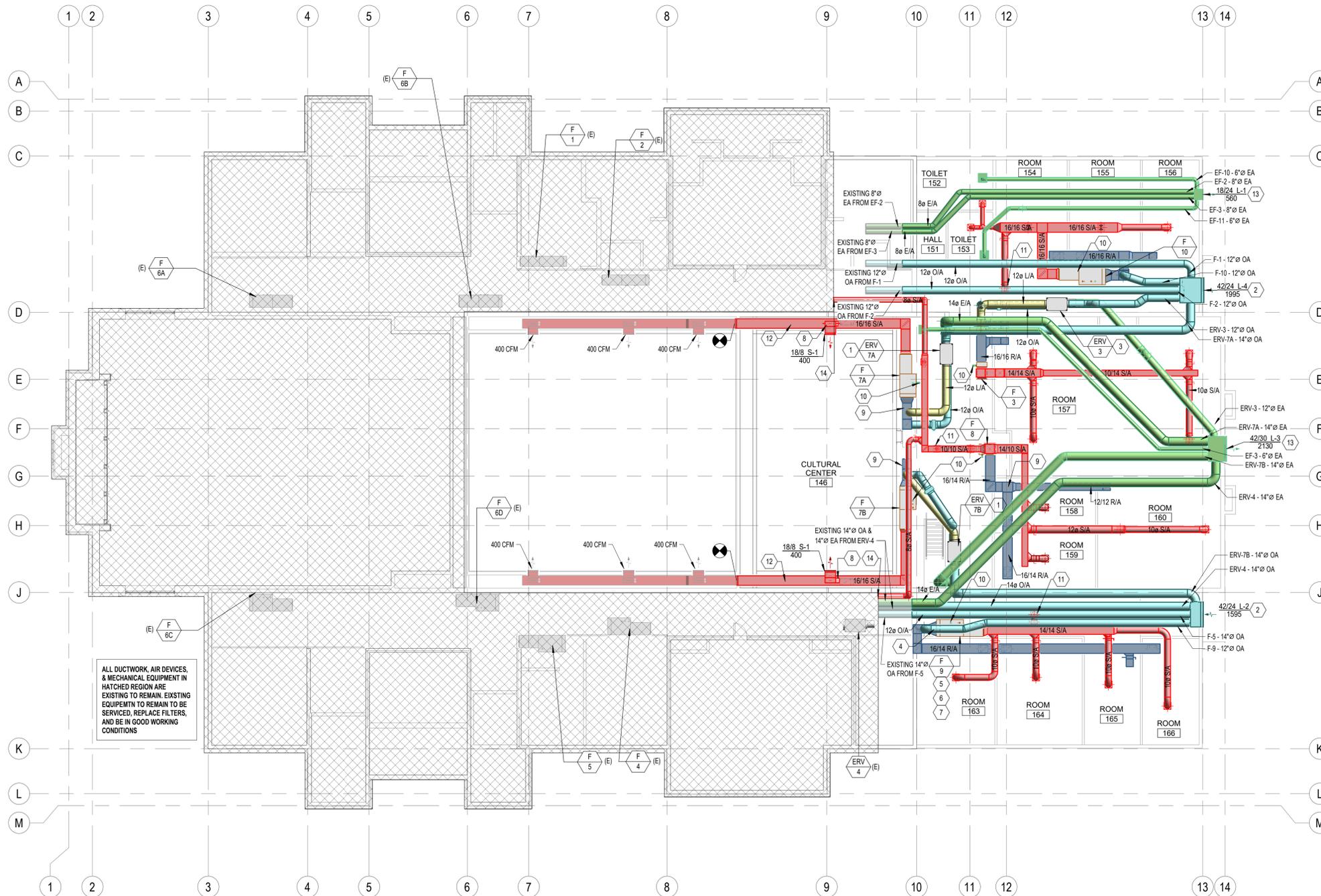
Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (D-M-Y)	Description

Project Number:
24-078.00
Plan Series:
G250-SC-11
Property Number:
5004685240201

Sheet Title:
MAIN FLOOR MECHANICAL PLAN

Sheet:
M101



ALL DUCTWORK, AIR DEVICES, & MECHANICAL EQUIPMENT IN HATCHED REGION ARE EXISTING TO REMAIN. EXISTING EQUIPMENT TO REMAIN TO BE SERVICED, REPLACE FILTERS, AND BE IN GOOD WORKING CONDITIONS

1 MECHANICAL PLATFORM PLAN
SCALE: 1/8" = 1'-0"

KEYED NOTES

- RELOCATED ERV CONNECTED TO NEW FURNACE. G.C. TO ADJUST ERV TO ACCOMMODATE NEW OA RATE.
- 24" DEEP OUTSIDE AIR INTAKE PLENUM. INSTALL ICE AND WATER SHIELD AT INTERIOR OF PLENUM. SLOPE BOTTOM TOWARDS EXTERIOR WALL. WRAP WITH SPECIFIED INSULATION.
- REFER TO DETAIL HM502 FOR ERV UNIT DAMPER REQUIREMENTS AND SUSPENDED MOUNTING. TYPICAL FOR ALL ERVS.
- REFER TO DETAIL F/M503 FOR OUTSIDE AIR CONTROLS. TYPICAL
- REFER TO DETAILS A, B, AND D SHEET M503. TYPICAL.
- REFER TO DETAILS G/M502 FOR EXTERNAL FILTER SELECTION. TYPICAL OF ALL HORIZONTAL FAN SYSTEMS.
- MIXED AIR PLENUM AT INLET TO FAN UNIT. FULL SIZE. DUCT SIZE TO MATCH RA CONNECTION SIZE. TYPICAL OF ALL SYSTEMS.
- DUCT RISE UP INTO TRUSS SPACE.
- RA DUCT BELOW.
- CONCENTRIC VENT AND COMBUSTION AIR PIPING UP THROUGH ROOF. REFER TO DETAIL C AND D/M503. DO NOT BLOCK ACCESS WITH PIPING. TYPICAL FOR ALL FAN SYSTEMS. LOCATE VENTS ALIGNED ALONG BUILDING AXIS AND AWAY FROM ROOF PEAKS AND VALLEYS.
- INSTALL RIGID DUCT THROUGH FLOOR TO DIFFUSER SEAL AT FLOOR PENETRATION.
- RUN DUCTWORK IN TRUSS SPACE AND BETWEEN TRUSS WEBS. TYPICAL OF UPPER SUPPLY DUCTWORK FOR CHAPEL AND CULTURAL CENTER.
- EXHUAUST AIR PLENUM.
- CONNECT INTO EXISTING HALLWAY DUCTWORK. REBLANCE HALLWAY AIR DEVICE TO 50CFM.

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NEW - MEETINGHOUSE & PARKING
 ADDITION PRAIRIE GROVE AR STAIR
 ADDITION SPRINGDALE AR STAIR

801 WEST BUCHANAN STREET
 PRAIRIE GROVE, AR 72753

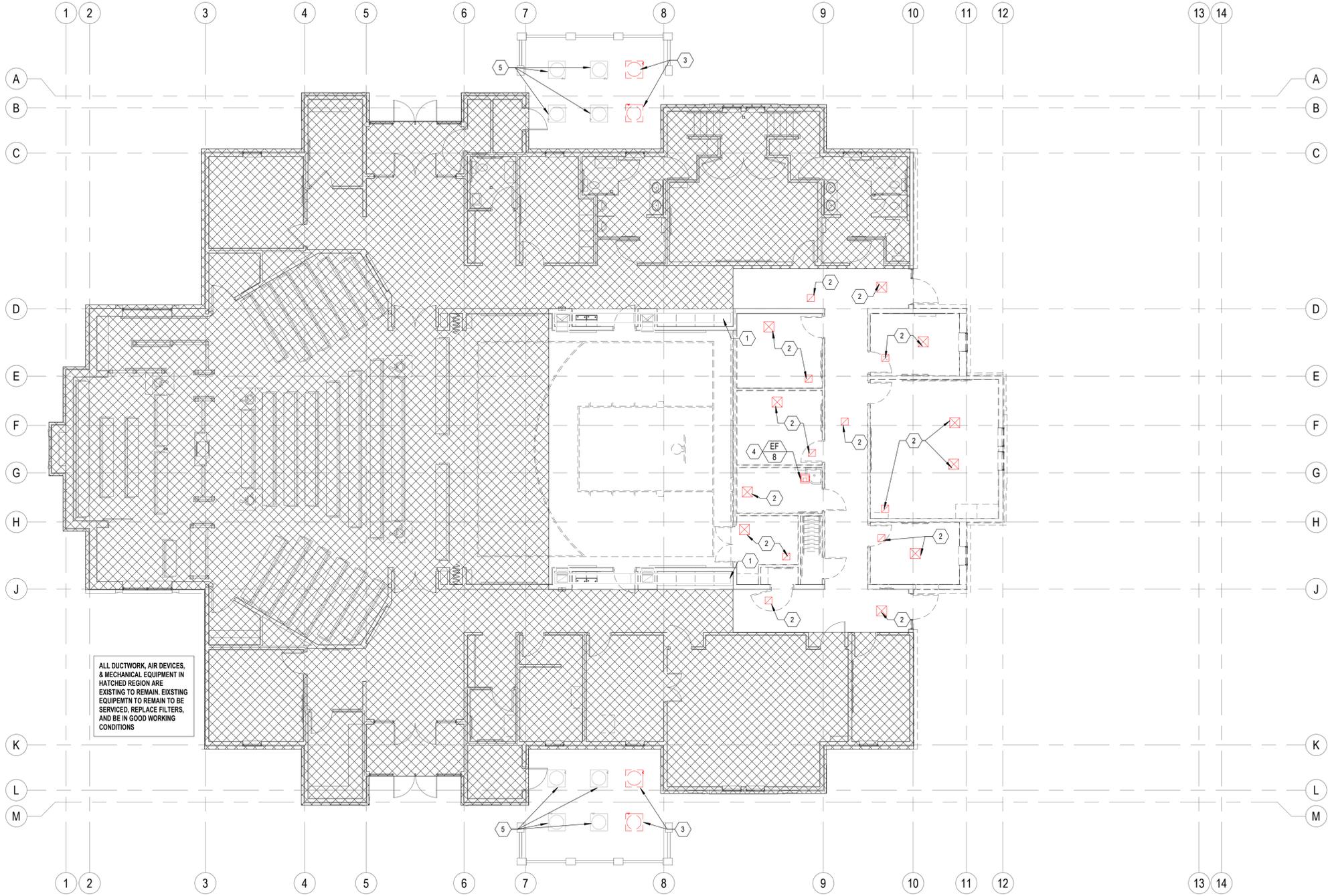
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Project Number:
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Sheet Title:
EQUIPMENT PLATFORM MECHANICAL PLAN

Sheet:
M102



1 MAIN FLOOR DEMO MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

- # KEYED NOTES**
- DUCTWORK EXISTING TO REMAIN. CUT DUCT AT LOCATION SHOWN ON PLANS. PROTECT REMAINING DUCT DURING CONSTRUCTION.
 - DEMO AIR DEVICE AND CONNECTED DUCTWORK.
 - DEMO MECHANICAL EQUIPMENT AND REFRIGERENT LINES.
 - DEMO EXHAUST FAN.
 - MECHANICAL EQUIPMENT EXISTING TO REMAIN. PROTECT DURING REMODEL.

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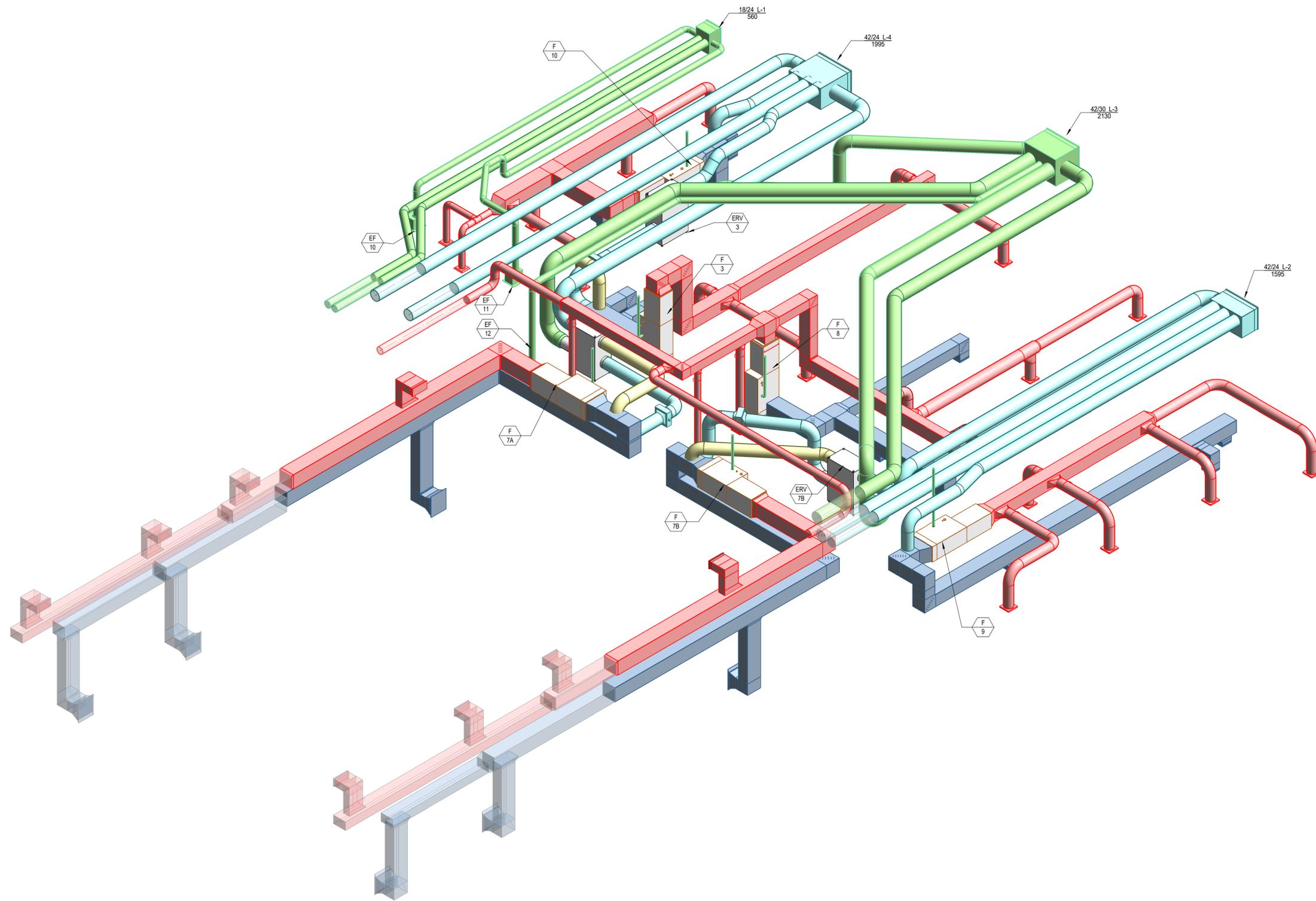
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Sheet Title:
MAIN FLOOR DEMO MECHANICAL PLAN

Sheet:
M201



1 MECHANICAL AXONOMETRIC VIEW
SCALE:

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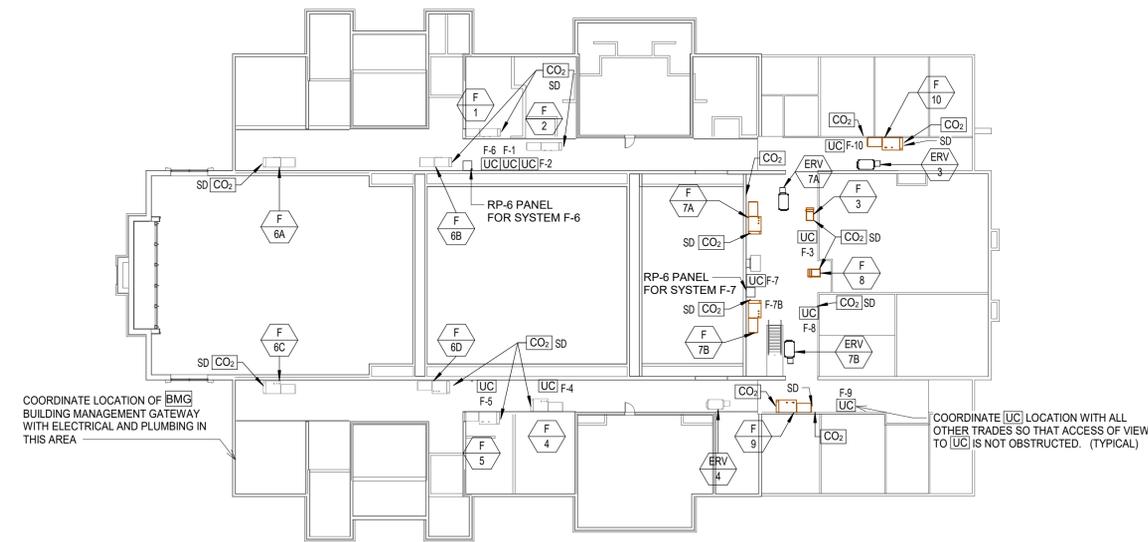
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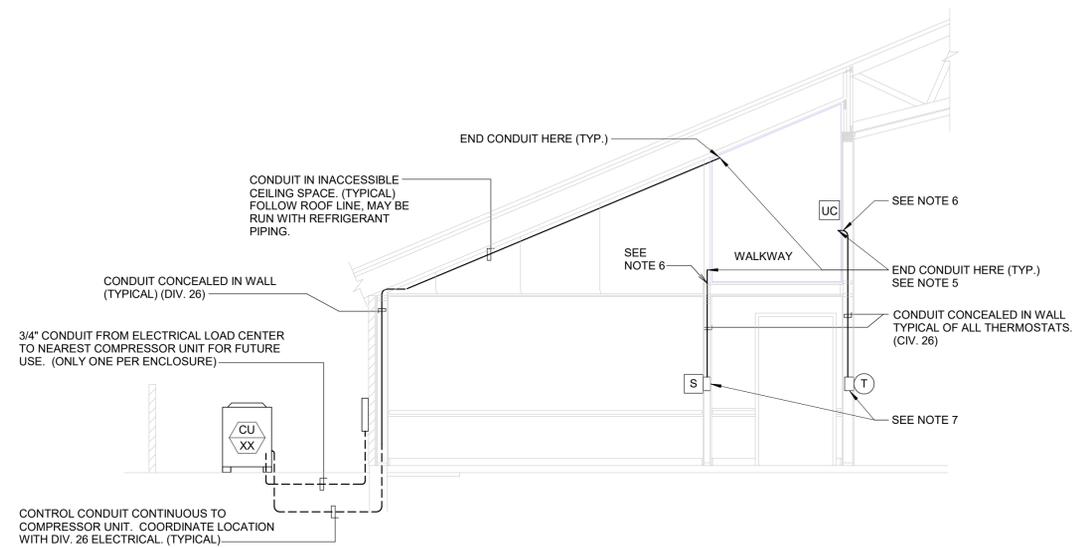
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Sheet Title:
MECHANICAL AXONOMETRIC PLAN

Sheet:
M301



2 EQUIPMENT PLATFORM AUTOMATIC TEMPERATURE CONTROL PLAN
SCALE: 1/16" = 1'-0"



A MINIMUM REQUIRED CONDUIT-TYPICAL DETAIL
SCALE: NONE

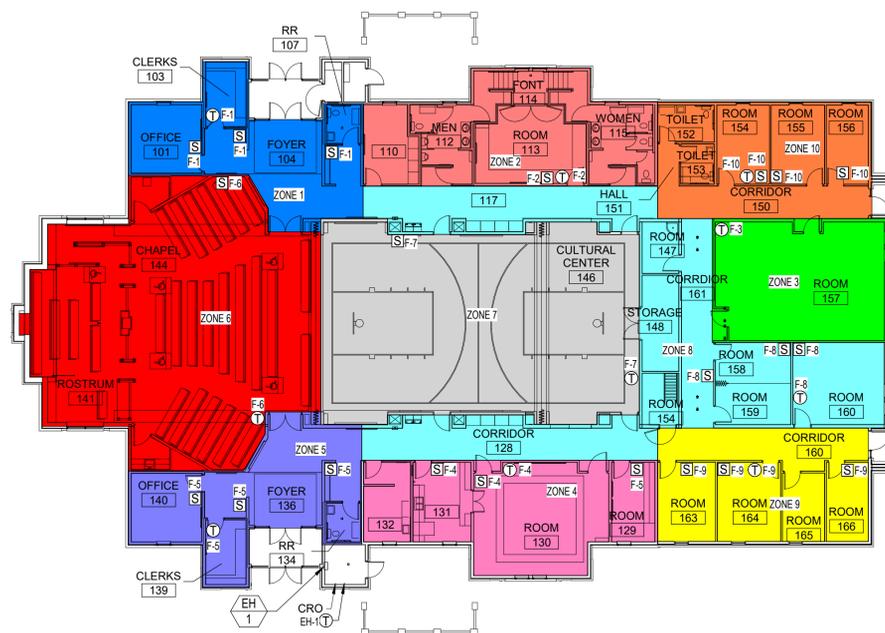
NOTE:
ALL TEMPERATURE CONTROL CONDUIT SHALL BE FURNISHED AND INSTALLED BY DIVISION 26.

SYMBOLS

- UC UNITARY CONTROLLER (DIV 23), MOUNT MODULE IN ACCESSIBLE LOCATION ON HORIZONTAL WALL NEAR ASSOCIATED FURNACE.
- RP-6 RELAY PANEL (DIV 23) MOUNT 5'-0" TO BOTTOM OF CABINET
- T THERMOSTAT (LCBS) OUTLET (DIV 26)
- S INDOOR AIR SENSOR OUTLET (DIV 26)
- BMG BUILDING MANAGEMENT GATEWAY (DIV 23)
- OAS GLOBAL OUTDOOR AIR SENSOR (DIV 23) TO BE INSTALLED ON THE NORTH SIDE OF THE BUILDING (OUT OF DIRECT SUNLIGHT) AND CONNECTED TO ANY ZONE.
- CO2 CO2 SENSOR (DIV 23) INSTALL UPSTREAM OF RELIEF OR OUTSIDE AIR CONNECTOR.
- CRO COMBINATION RELAY AND THERMAL OVERLOAD DISCONNECT (W/20 AMP RIB RELAY 2401B)
- ZP-1 (3) ZONE PANEL (DIV 23)
- ZP-2 (4) ZONE PANEL (DIV 23)
- Z* ZONE DAMPER (*=ZONE NUMBER)
- SD DUCT SMOKE DETECTOR

NOTES:

1. BOXES FOR THERMOSTAT (T) AND (S) OUTLETS SHALL BE 2"x4" WITH LONG DIMENSION VERTICAL. USE METAL BRACKET OF COVER PLATE ASSEMBLY TO MOUNT THERMOSTAT HORIZONTAL.
2. CONDUIT TO BE 1/2" UNLESS NOTED OTHERWISE.
3. TEMPERATURE CONTROL WIRING THAT IS NOT IN CONDUIT SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING CONSTRUCTION LINES. SEE SPECIFICATIONS FOR ACCEPTABLE FASTENING METHODS AND MAXIMUM ALLOWABLE SPACING BETWEEN FASTENERS.
4. TEMPERATURE CONTROL WIRING THAT IS NOT IN CONDUIT SHALL BE LABELED. PROVIDE A LABEL AT ALL POINTS WHERE TEMPERATURE CONTROL WIRING ENTERS CONDUIT AND AT CONNECTIONS TO DEVICES.
5. SEAL OPEN END OF CONDUIT AIR-TIGHT AROUND THERMOSTAT/SENSOR WIRE WITH SEALANT COMPOUND. SEE SPECS FOR APPROVED PRODUCT.
6. SEAL ANNULAR SPACE BETWEEN CONDUIT AND OPENING IN FLOOR OR WALL WITH SEALANT COMPOUND. SEE SPECS FOR APPROVED PRODUCT.
7. SEAL OPEN END OF CONDUIT AT J-BOX AIR-TIGHT AROUND THERMOSTAT/SENSOR WIRE. SEAL ALL AIR GAPS AROUND J-BOX TO ISOLATE J-BOX FROM WALL CAVITY. SEAL BACK OF THERMOSTAT AROUND WIRES. PACK J-BOX TIGHT WITH GLASS FIBER BAT INSULATION. USE SEALING COMPOUND SPECIFICALLY MADE FOR REFRIGERATION AND AIR-CONDITIONING APPLICATIONS. SEE SPECIFICATIONS FOR APPROVED PRODUCTS.
8. ELECTRIC HEATER ZONE. CONNECT UC TO 20 AMP RELAY AND THEN TO THERMAL OVERLOAD. REFER TO WIRING DIAGRAM, SHEET ME701.
9. FOR AVERAGING SENSORS USE 3/4" CONDUIT.

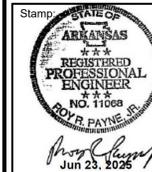


COORDINATE ALL THERMOSTAT AND SENSOR LOCATIONS WITH ALL WALL ELEMENTS (VISUAL DISPLAY BOARDS, LIGHTING CONTROLS, COAT RACKS, ETC.)

1 MAIN FLOOR AUTOMATIC TEMPERATURE CONTROL PLAN
SCALE: 1/16" = 1'-0"

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Stamp: STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER NO. 11068 JUN 23, 2025
NEW - MEETINGHOUSE & PARKING ADDITION PRAIRIE GROVE AR MINISTRIES ADDITION SPRINGDALE AR STAIRS
801 WEST BUCHANAN STREET PRAIRIE GROVE, AR 72753

Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Date (D-M-Y)	Description

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Sheet Title:
AUTOMATIC TEMPERATURE CONTROL PLANS

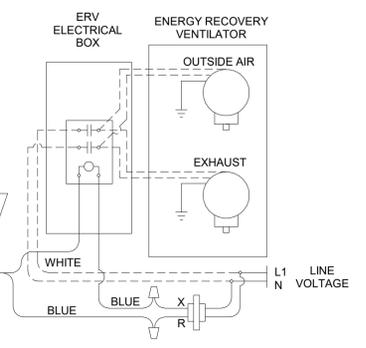
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ME101

Date (D-M-Y)	Description

Project Number: 24-078.00
 Plan Series: G250-SC-11
 Property Number: 5004685240201

Sheet Title:
AUTOMATIC TEMPERATURE CONTROL WIRING AND SCHEDULES

- NOTES:**
1. THERMOSTAT CABLE- 4, 8 OR 12 CONDUCTOR- 18 AWG SOLID COPPER WIRE INSULATED WITH HIGH DENSITY POLYETHYLENE. CONDUCTORS PARALLEL. ENCLOSED IN BROWN PVC JACKET. (NO 22 AWG CABLE ALLOWED).
 2. IF COMPRESSOR UNITS HAVE THEIR OWN POWER SUPPLY IT MAY BE NECESSARY TO ADD ADDITIONAL RELAYS IN COMPRESSOR UNIT TO PROPERLY INTERFACE CONTROLS.
 3. USE WIRE NUT CONNECTORS FOR SPlicing CONDUCTORS IN SPECIFIED LOCATIONS, AND TYTON TYPE CRIMP CONNECTORS FOR TERMINAL CONNECTIONS. NO TERMINAL CONNECTORS REQUIRED AT THERMOSTAT OR SENSOR.
 4. DO NOT RUN ANY OTHER WIRING IN THIS CONDUIT EXCEPT THERMOSTAT CABLE.
 5. VERIFY THAT FAN UNIT FAN SPEED CONTROL WIRING IS SET TO MATCH SCHEDULE SHEET AND THAT FAN OPERATES AT COOLING SPEED ONLY.
 6. DO NOT SPLICE WIRE IN RUNS FROM SENSOR TO THERMOSTAT, THERMOSTAT TO FURNACE, AND THERMOSTAT TO DISCHARGE AIR SENSOR.
 7. PROVIDE CHASE NIPPLE WITH PLASTIC BUSHING WHEN ATTACHING J-BOX TO EQUIPMENT.
 8. PROVIDE CABLE-CLAMP SO THAT CABLES CANNOT BE PULLED OUT OF J-BOX.



ENERGY RECOVERY VENTILATOR WIRING
 SYSTEMS: F-3, F-4, & F-7

CONTROL EQUIPMENT

MARK	DESCRIPTION	CAT. NO. (1)	MARK	DESCRIPTION	CAT. NO. (1)
BMG	BUILDING MANAGEMENT GATEWAY	LGW1000 (GATEWAY) WPM-8000 (WALL PLUG)	RP-6	RELAY PANEL 24X18X6W/COVER	(2) (4)
UC	UNITARY CONTROLLER	YCLR64385R1000	DM-1	DAMPER MOTOR TWO POSITION	MS8105A1030
T	THERMOSTAT WALL MODULE	LCBS WALL MODULE	DM-2	DAMPER MOTOR 2 POS W/END SWITCH	MS8105A1130
	THERMOSTAT COVER PLATE ASSEMBLY	50002883-001	X-1	TRANSFORMER 120, 208, 240V/24V 75VA	AT175F1023
S	REMOTE SENSOR	TR40	X-2	TRANSFORMER 120V/24V 50VA	AT150F1022
G-1	THERMOSTAT GUARD	(2)	SD-1	DUCT SMOKE DETECTOR	(2)
DS	DUCT AIR SENSOR	C7041B2005	SR	SMOKE RELAY 30 AMP 120V COIL	DP2030B5003 (3)
CO ₂	CO ₂ SENSOR	C7232B1006	RIB	TWO POLE RELAY	RIBU1C (2)
ZP-1	ZONING PANEL (3 ZONES)	HZ322	RIB 20A	TWO POLE RELAY 20 AMP	RIB2401B (6)
ZP-2	ZONING PANEL (4 ZONES)	HZ432	OAS	GLOBAL OUTDOOR AIR SENSOR	C7041F2006 (7)
Z	ZONE DAMPER (*=ZONE NUMBER)	ZD or ARD (5)	CRO	COMBINATION RELAY & THERMAL OVERLOAD DISCONNECT	(2) (4)
			E-BUS	ECHELON NETWORK CABLE	W221P-2001B

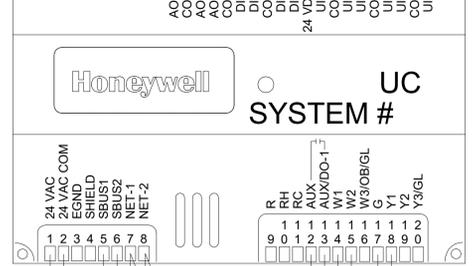
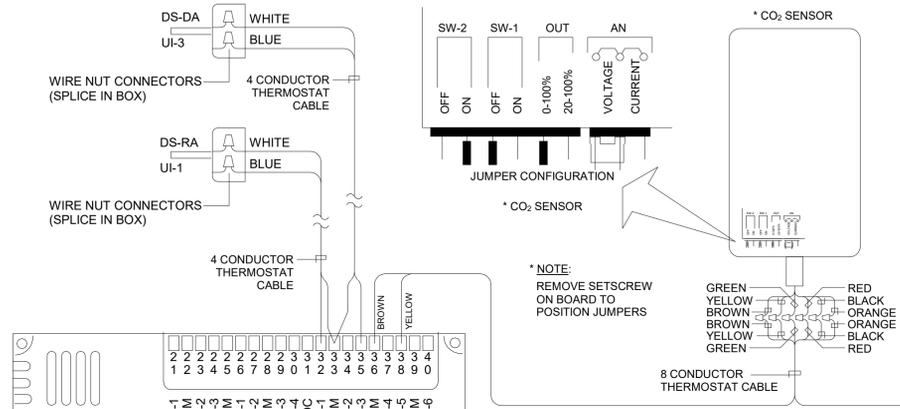
- (1) ALL CATALOG NUMBERS SHOWN ARE HONEYWELL UNLESS NOTED OTHERWISE.
- (2) SEE SPECIFICATIONS
- (3) PROVIDE ENCLOSURE
- (4) TO BE PURCHASED FROM AN APPROVED PER-BUILT PANEL BUILDER SEE SPECIFICATION.
- (5) SEE PLAN FOR REQUIRED SIZE AND ZONE NUMBER.
- (6) USE WITH CRO DISCONNECT FOR ELECTRIC WALL HEATER. CONTROL FROM UC.
- (7) ONLY ONE REQUIRED FOR BUILDING. MAY BE CONNECTED TO ANY CONTROLLER AT NORTH SIDE.

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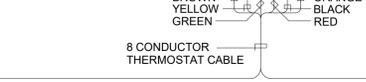
--- DIVISION 26 OR FACTORY PRE-WIRED

— DIVISION 23 WIRING

- NOTES:**
1. ECHELON BUS (E-BUS) MUST BE INSTALLED AT LEAST 12" AWAY FROM ALL ELECTRICAL DEVICES: I.E. MOTORS, LIGHT, ETC.
 2. DO NOT USE THERMOSTAT CABLE AS NETWORK CABLE. USE SPECIFIED CABLE.



* NOTE: REMOVE SETSCREW ON BOARD TO POSITION JUMPERS



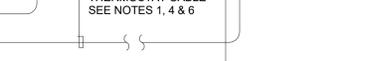
* CO₂ SENSOR



LOW VOLTAGE TERMINAL STRIP



CONDENSING UNIT



FAN UNIT



CONVERTER



SYSTEM: EH-1

WIRING DIAGRAM
 SYSTEMS: F-1, F-2, F-3, F-4, F-5, F-8, F-9 & F-10

DATA OUTLET BY OTHERS



ETHERNET CABLE BY OTHERS.



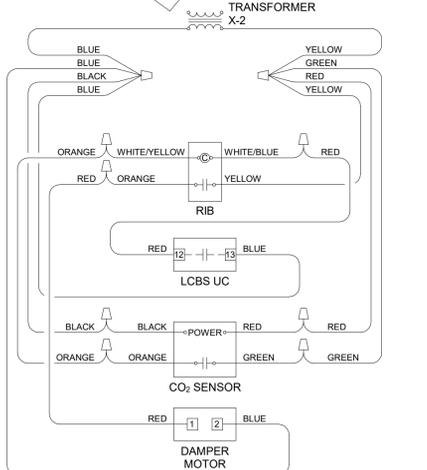
BMG



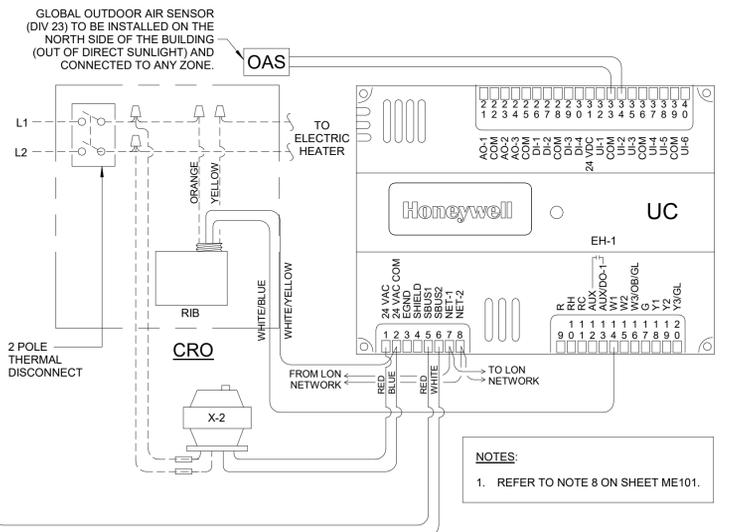
NOTES:

1. ETHERNET CABLE MAY REQUIRE LENGTH OF UP TO 100 FEET.

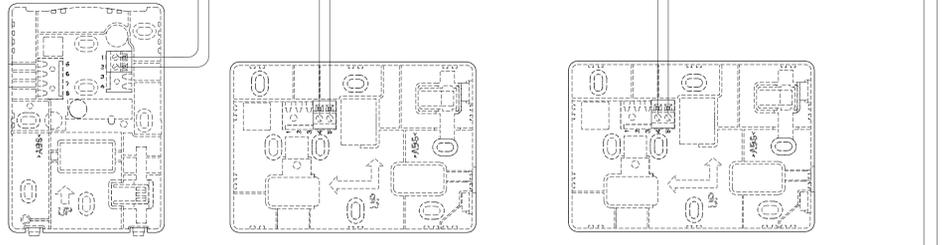
BMG WIRING DIAGRAM



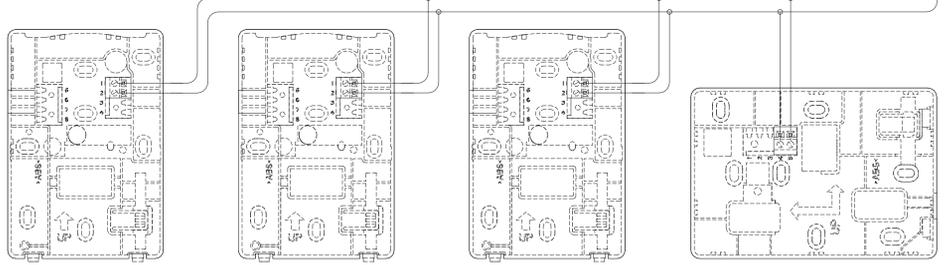
WIRING SCHEMATIC, X-2



ELECTRIC HEATER WIRING DIAGRAM



SYSTEMS: F-2 **SYSTEMS: F-3**



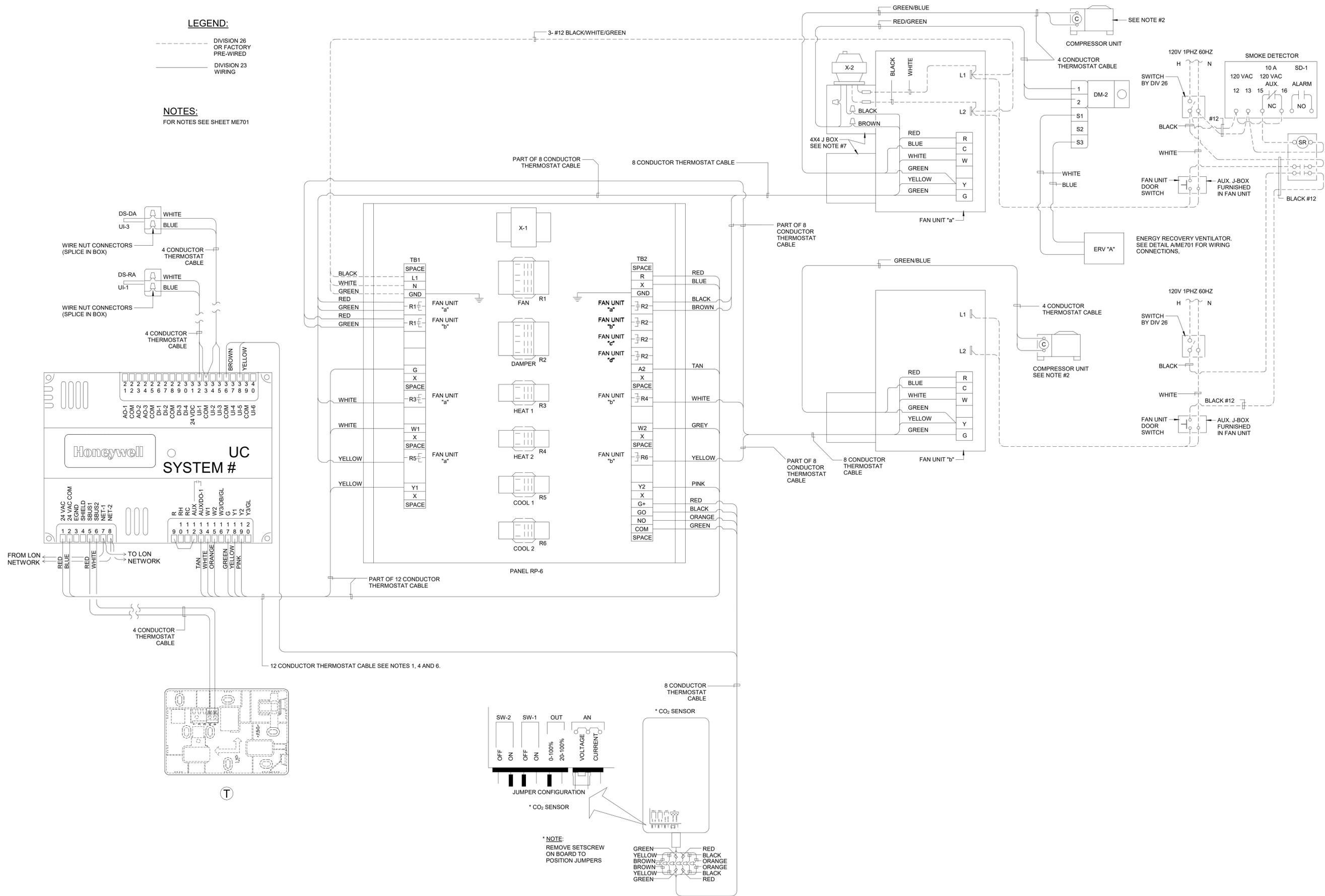
SYSTEM: F-1, F-4, F-5, F-8, F-9, F-10

LEGEND:

- - - - - DIVISION 26 OR FACTORY PRE-WIRED
- _____ DIVISION 23 WIRING

NOTES:

FOR NOTES SEE SHEET ME701

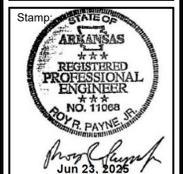


WIRING DIAGRAM

SYSTEM: F-6

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NEW - MEETINGHOUSE & PARKING
 ADDITION PRAIRIE GROVE AR STAIRS
 ADDITION SPRINGDALE AR STAIRS
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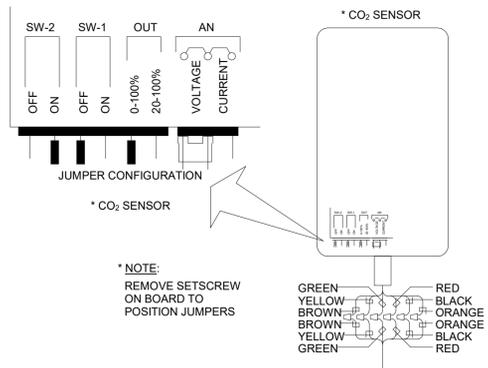
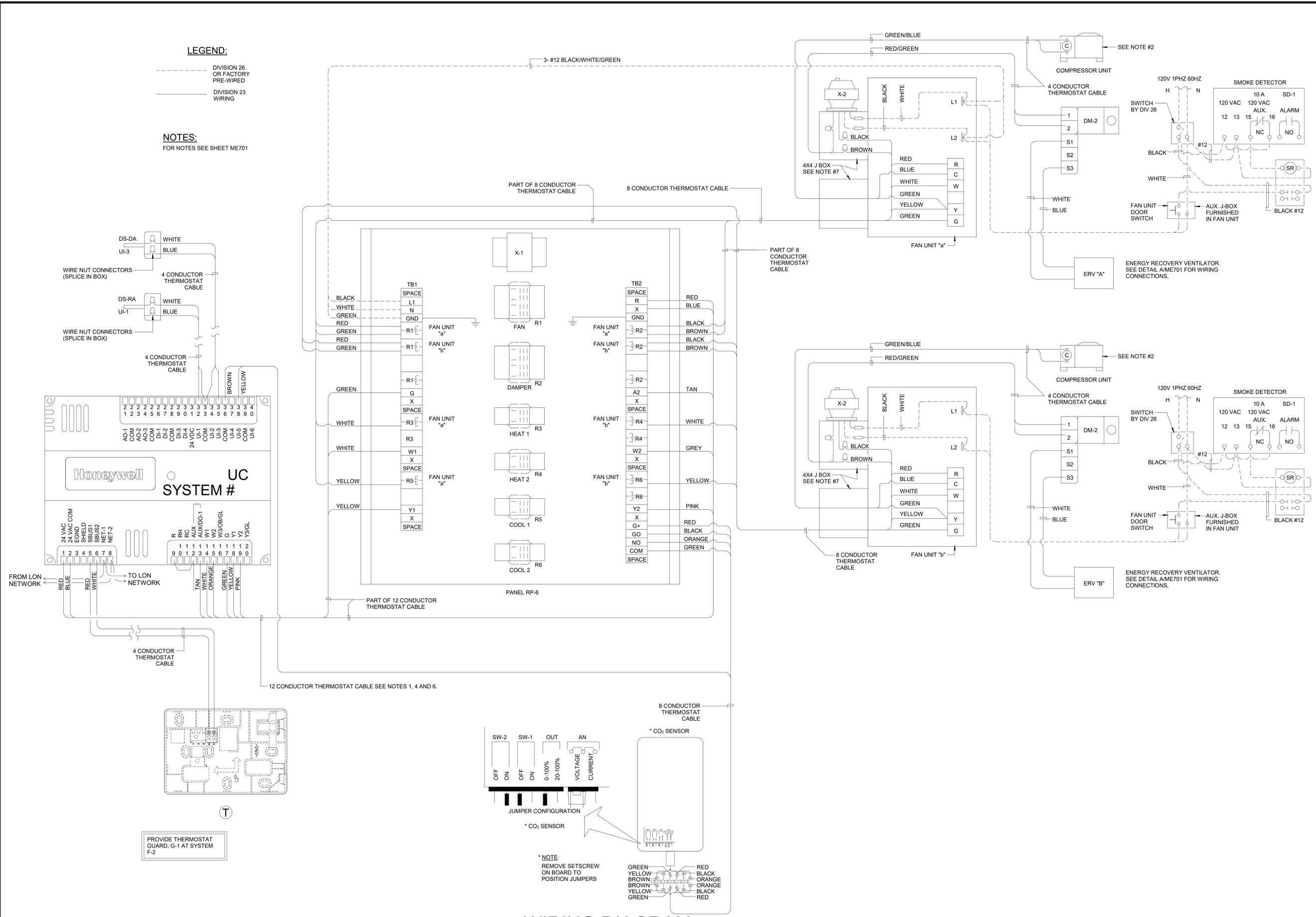
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LEGEND:

- - - - - DIVISION 26 OR FACTORY PRE-WIRED
- — — — — DIVISION 23 WIRING

NOTES:

FOR NOTES SEE SHEET ME701



WIRING DIAGRAM
SYSTEM: F-7

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NEW - MEETINGHOUSE & PARKING ADDITION PRAIRIE GROVE AR STAIRS ADDITION SPRINGDALE AR STAIRS

801 WEST BUCHANAN STREET PRAIRIE GROVE, AR 72753

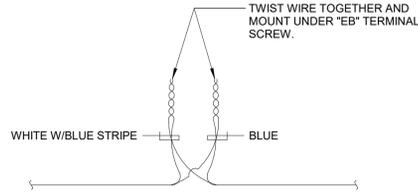
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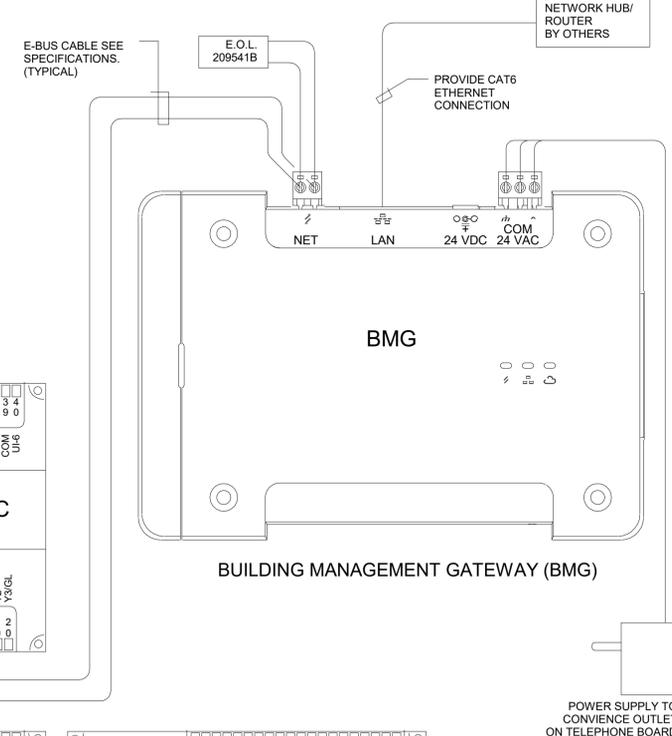
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Sheet:
ME703

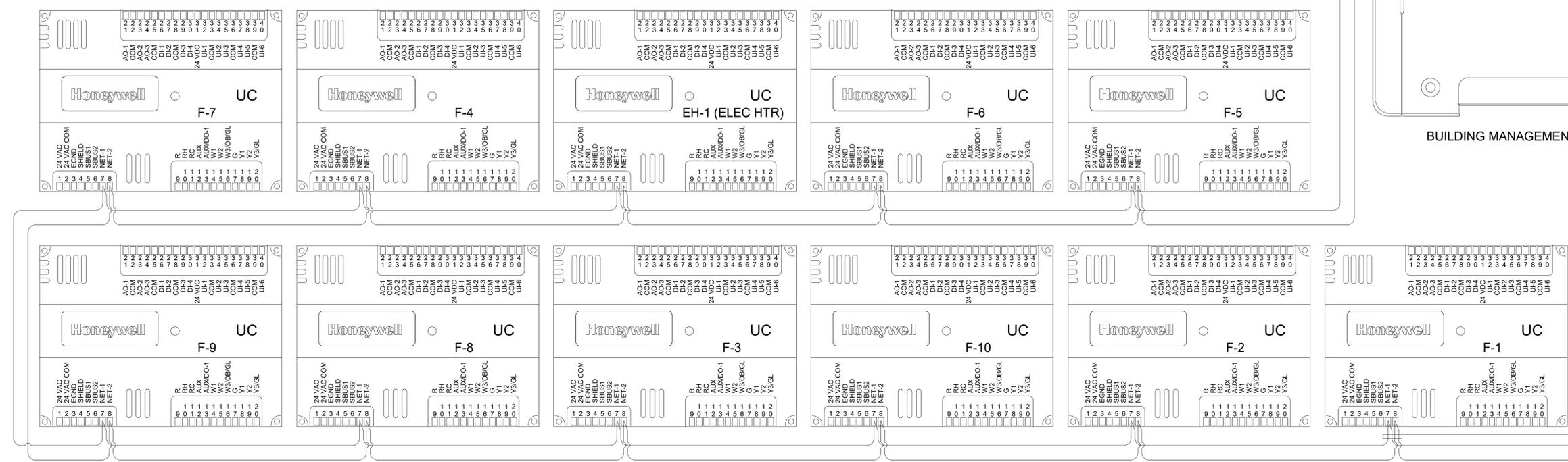


A E-BUS CONNECTION DETAIL
NO SCALE



BUILDING MANAGEMENT GATEWAY (BMG)

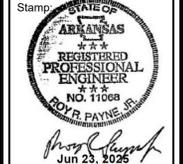
SEE DETAIL (A) THIS SHEET (TYPICAL)



E-BUS WIRING DIAGRAM

Architect / Engineer:

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NEW - MEETINGHOUSE & PARKING
 ADDITION PRAIRIE GROVE AR ST
 ADDITION SPRINGDALE AR ST
 801 WEST BUCHANAN STREET
 PRAIRIE GROVE, AR 72753

Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (D-M-Y)	Description

Project Number:
24-078.00
 Plan Series:
G250-SC-11
 Property Number:
5004685240201

Sheet Title:
AUTOMATIC TEMPERATURE CONTROL WIRING

Sheet:
ME706