Request for Proposal

A R

Date: 8/9/2023 Project Name: UA 310 ARKV Renovation Project No.: 21085 Owner: University of Arkansas - Fayetteville

Contractor: Milestone Construction Attn: Fran Baires 2002 S. 48th St, Suite A Springdale, AR 72762 Contract Date: see file

Delivered by: E-mail

Please submit an itemized quotation for changes in the contract Sum and/or Time incidental to proposal modification to the Contract Documents described herein.

THIS IS NOT A CHANGE ORDER NOR A DIRECTION TO PROCEED WITH THE WORK DESCRIBED HERIN:

Description: (Written description of the Work)

Provide a price to rework the ducting from AHU-1, EDH changes, and electrical modifications as noted on the attached drawings. The new ducting is to be run horizontally out of the mechanical room and then in a trench running north and south as required until turning vertically. Provide steel angle supports as required at wall penetration from mechanical room. A test core may be required in the chapel to determine the thickness of the slab.

Provide credit as required for floor and wall penetrations from previously issued duct runs and removal of mechanical equipment.

Refer to attached Pettit & Pettit Engineers description sheet and drawings.

Attachments: (List attached documents that support the description)

Pettit & Pettit Cover Letter M1.01, M2.01, M4.01, M5.01, E1.03, E2.01

By: Scott Leonard, AIA

CC: (Owner, Contractor)

Central File: J:l2021\21085 UA 310 Arkansas Ave Renovation\1600 Proposal Request\RFP 02 - Alternate Duct Routing\23-0809 RFP 02 - Alternate Duct Routing.docx

SCM

<u>RFP</u>NO: 02



Established 1949

PROPOSAL REQUEST NUMBER: TWO (2)

TO: PROJECT MANUAL AND DRAWINGS

- FOR: 310 Arkansas Ave Renovation University of Arkansas Fayetteville, Arkansas Pettit & Pettit Project #21-039 SCM Architects Job #21085
- DATE: August 8, 2023

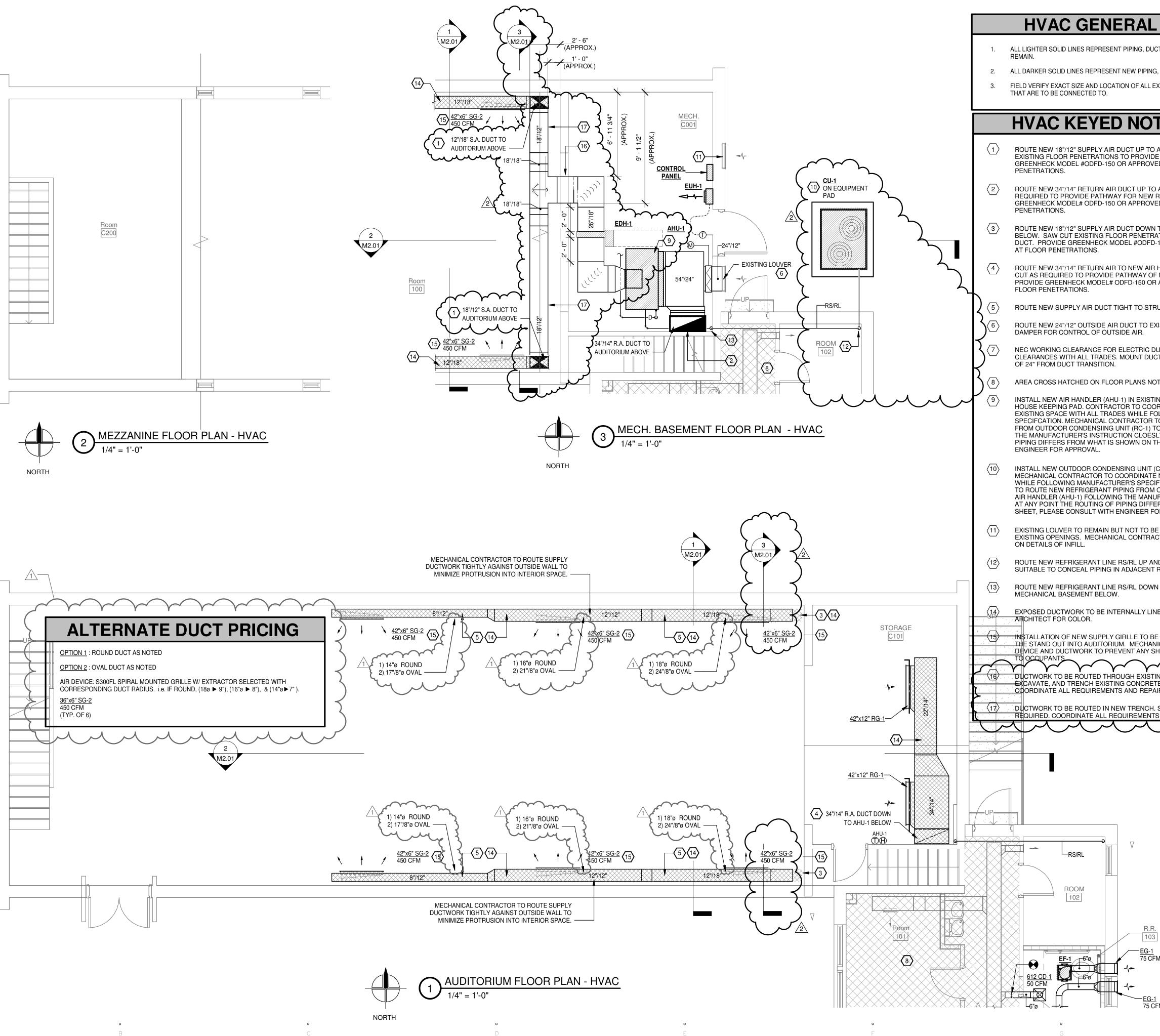
Please submit an itemized quotation in accordance with the specifications for the following proposed changes in the scope of work. This is not a Change Order nor a direction to proceed with the work described herein.

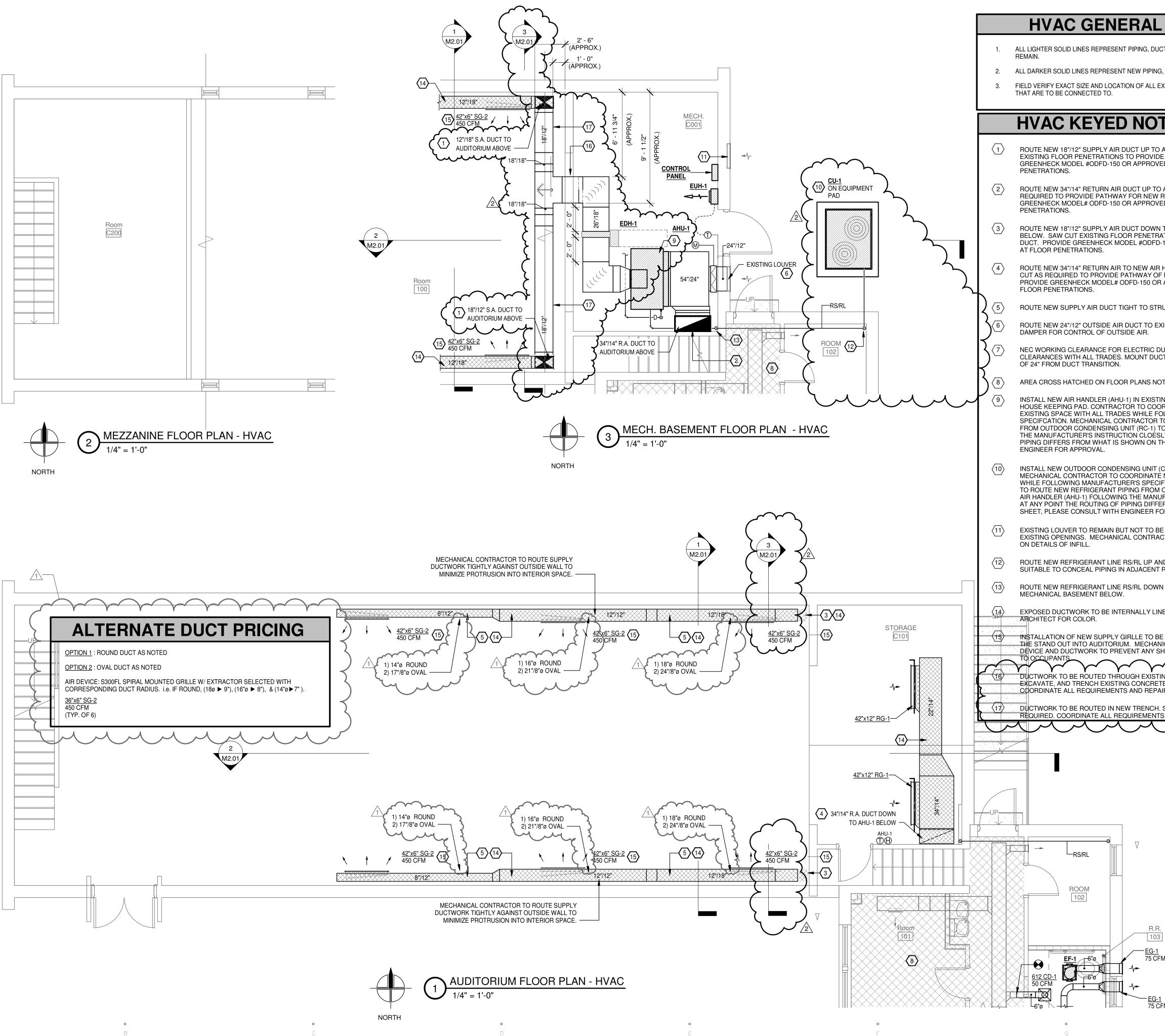
PROPOSAL REQUEST ITEMS - Drawings:

- A1. REFER TO SHEET M1.01 AND M2.01 FOR DUCTWORK ROUTING REVISIONS. ADDITIONALLY, EDH-1 HAS BE REVISED AND RELOCATED, EDH-2 HAS BEEN DELETED, AND CU-1 HAS BEEN RELOCATED.
- A2. REFER TO SHEET M4.01 REVISIONS TO THE DUCT HEATER SCHEDULE.
- A3. REFER TO SHEET M5.01 REVISIONS TO THE DUCT HEATER CONTROLS DIAGRAM AND SEQUENCE OF OPERATIONS.
- A4. REFER TO SHEET E1.03 FOR REVISIONS TO THE DUCT HEATER EDH-1 AND THE DELETION OF EDH-2. CU-1 WAS ALSO RELOCATED.
- A5. REFER TO SHEET E2.01 FOR REVISIONS TO PANEL "A". A NEW 125A/3P BREAKER SHALL BE PROVIDED FOR EDH-1. THE ORIGINAL BREAKERS FOR EDH-1 AND EDH-2 SHALL BE LABELED AS SPARE.

END OF PROPOSAL REQUEST

PROPOSAL REQUEST TWO (2)





HVAC GENERAL NOTES

ALL LIGHTER SOLID LINES REPRESENT PIPING, DUCTWORK, EQUIPMENT, ETC. TO

ALL DARKER SOLID LINES REPRESENT NEW PIPING, DUCTWORK, EQUIPMENT, ETC.

FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING ITEMS SHOWN ON THIS PLAN

HVAC KEYED NOTES - M1.01

ROUTE NEW 18"/12" SUPPLY AIR DUCT UP TO AUDITORIUM ABOVE. SAW CUT EXISTING FLOOR PENETRATIONS TO PROVIDE PATHWAY FOR NEW DUCT. PROVIDE GREENHECK MODEL #ODFD-150 OR APPROVED EQUAL FIRE DAMPER AT FLOOR

ROUTE NEW 34"/14" RETURN AIR DUCT UP TO AUDITORIUM ABOVE. SAW CUT AS REQUIRED TO PROVIDE PATHWAY FOR NEW RETURN AIR DUCTWORK. PROVIDE GREENHECK MODEL# ODFD-150 OR APPROVED EQUAL FIRE DAMPER AT FLOOR

ROUTE NEW 18"/12" SUPPLY AIR DUCT DOWN TO NEW AIR HANDLING UNIT (AHU-1) BELOW. SAW CUT EXISTING FLOOR PENETRATIONS TO PROVIDE PATHWAY FOR NEW DUCT. PROVIDE GREENHECK MODEL #ODFD-150 OR APPROVED EQUAL FIRE DAMPER

ROUTE NEW 34"/14" RETURN AIR TO NEW AIR HANDLING UNIT (AHU-1) BELOW. SAW CUT AS REQUIRED TO PROVIDE PATHWAY OF NEW RETURN AIR DUCTWORK. PROVIDE GREENHECK MODEL# ODFD-150 OR APPROVED EQUAL FIRE DAMPER AT

ROUTE NEW SUPPLY AIR DUCT TIGHT TO STRUCTURE. SEE DETAIL 1, SHEET M1.01.

ROUTE NEW 24"/12" OUTSIDE AIR DUCT TO EXISTING LOUVER. PROVIDE MOTORIZED

NEC WORKING CLEARANCE FOR ELECTRIC DUCT HEATERS. COORDINATE CLEARANCES WITH ALL TRADES. MOUNT DUCT HEATERS (EDH-1 & EDH-2) A MINIMUM

AREA CROSS HATCHED ON FLOOR PLANS NOT IN MECHANICAL SCOPE.

INSTALL NEW AIR HANDLER (AHU-1) IN EXISTING MECHANICAL BASEMENT ON NEW 4" HOUSE KEEPING PAD. CONTRACTOR TO COORDINATE NEW INSTALLATION IN EXISTING SPACE WITH ALL TRADES WHILE FOLLOWING MANUFACTURER'S SPECIFCATION. MECHANICAL CONTRACTOR TO ROUTE NEW REFRIGERANT PIPING FROM OUTDOOR CONDENSIING UNIT (RC-1) TO AIR HANDLER (AHU-1) FOLLOWING THE MANUFACTURER'S INSTRUCTION CLOESLY. IF AT ANY POINT THE ROUTING OF PIPING DIFFERS FROM WHAT IS SHOWN ON THIS SHEET, PLEASE CONSULT WITH

INSTALL NEW OUTDOOR CONDENSING UNIT (CU-1) ON NEW EQUIPMENT PAD. MECHANICAL CONTRACTOR TO COORDINATE NEW INSTALLATION WITH ALL TRADES WHILE FOLLOWING MANUFACTURER'S SPECIFICATIONS. MECHANICAL CONTRACTOR TO ROUTE NEW REFRIGERANT PIPING FROM OUTDOOR CONDENSING UNIT (CU-1) TO AIR HANDLER (AHU-1) FOLLOWING THE MANUFACTURER'S INSTRUCTION CLOESLY. II AT ANY POINT THE ROUTING OF PIPING DIFFERS FROM WHAT IS SHOWN ON THIS SHEET, PLEASE CONSULT WITH ENGINEER FOR APPROVAL

EXISTING LOUVER TO REMAIN BUT NOT TO BE RE-USED. CAP, SEAL, AND INSULATE EXISTING OPENINGS. MECHANICAL CONTRACTOR TO COORDINATE WITH ARCHITECT

ROUTE NEW REFRIGERANT LINE RS/RL UP AND PENETRATE WALL AT AN ELEVATION SUITABLE TO CONCEAL PIPING IN ADJACENT ROOM'S CEILING SPACE.

ROUTE NEW REFRIGERANT LINE RS/RL DOWN TO AIR HANDLER (AHU-1 IN

EXPOSED DUCTWORK TO BE INTERNALLY LINED WITH PAINT-GRIP FINISH. SEE

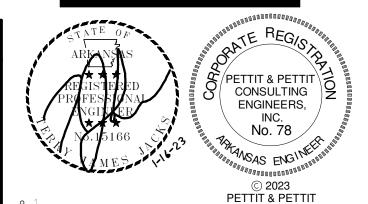
THE STAND OUT INTO AUDITORIUM. MECHANICAL CONTACTOR TO INSTALL AIR DEVICE AND DUCTWORK TO PREVENT ANY SHARP EDGES THAT WOULD BE EXPOSE

DUCTWORK TO BE ROUTED THROUGH EXISTING CONCRETE WALL. SAWCUT EXCAVATE, AND TRENCH EXISTING CONCRETE AS REQUIRED TO ROUTE DUCTWORK COORDINATE ALL REQUIREMENTS AND REPAIR WITH GC.

DUCTWORK TO BE ROUTED IN NEW TRENCH. SAWCUT, EXCAVATE, AND TRENCH AS REQUIRED. COORDINATE ALL REQUIREMENTS AND REPAIR WITH THE GC.



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CONSULTING ENGINEERS, IN

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310 Arkansas Avenue Fayetteville, AR 72701

REVISIONS:

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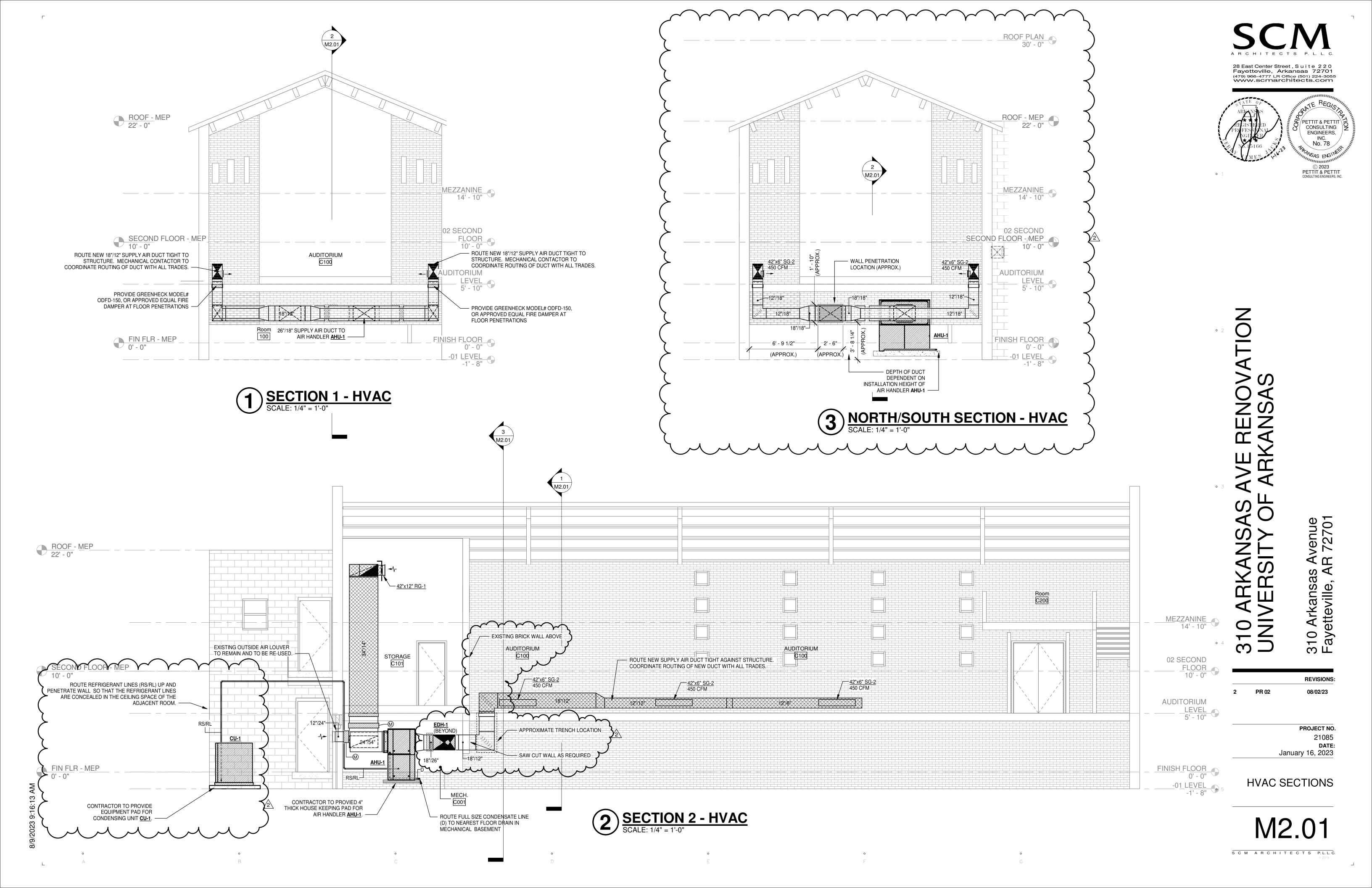
AUDITORIUM FLOOR PLANS - HVAC

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D	ESIG.	MFR/MDL	ŢŶ₽Ĕ	CFM	OSA		C TOTA	COOLING (L SENS						AT PUMP 17° AMB.	<u></u>					(DUCT MO EAT/LAT			AS RE-HEAT	· · · · ·	EVAPORA DRIVE		1 1		TA (UNIT)	WEIGHT	REMARKS
A	HU-1	ABOVE AIR TECHNOLOGIES / VKE-096D-3- HGHP0-00-00-1D-00-00-FR-B	HORZ. INDOOR AIR HANDLER	2,700	540 CFI	M 1.00"	102.8 MB	3H 71.2 MBH	78.2°F d.b. 65.8°F w.b.	53.9°F d.b. 52.9°F w.b.		. 75.0°F d.b. . 63.0°F w.b.	92.5 MBH EAT: 57.4 LAT: 88.9	51.4 MBH EAT: 51.4 LAT: 68.9	0°F OSA 70°F ISA	°F	EDH-1 & EDH-2	SCR	0°F OSA 70°F ISA		17 EA. 12"/18	53.9°F d.b. 7 52.9°F w.b.5		1.5	BELT	1 5.2	208 3ø	39.8	50	1,050	PROVIDED WITH STA 13 FILTERS, INTEGRA ELECTRIC DUCT HEA

	AIR COOLE	ED CC	NDE	NSER	SCH	IEDU	JLE											
DESIG.	MFR/MDL	TYPE	WEIGHT	SERVES		COOLIN S(MBH)	G AMBIENT	NO ⁻	COMPRES		or da Hp		NSER FAN	FLA	EL VOLTS/PH.	ECTRIC/ MCA	AL MOCP	REMARKS
CU-1	ABOVE AIR TECHNOLOGIES / XP4-096D-1-00-00-00-VF	OUTDOOR PROP FAN	885 LBS.	AHU-1	122.5		95°	2	(1) 110.0 (1) 98.0	(1) 16.1 (1) 14.5	3	AXIAL	4	2.0	208 v / 1ø	10.0	15	PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.

	AIR DEV	ICE SCH	HEDULE	=			
DESIG.	MFR./MDL.	TYPE	FACE SIZE	FINISH	FREE AREA	ACCESS.	REMARKS
CD-1	TITUS TMS	LOUVER FACE CEILING SUPPLY	AS NOTED	COORDINATE WITH ARCHITECT		OPPOSED BLADE DAMPER	PROVIDE W/ 3/4" SPACED BLADES, 22.5° DEFLECTION, FRONT BLADES PARALLEL TO LONG DIMENSION .
SG-1	TITUS 300RL	SIDEWALL SUPPLY GRILLE	AS NOTED	COORDINATE WITH ARCHITECT		OPPOSED BLADE DAMPER	PROVIDE W/ 3/4" SPACED BLADES, 22.5° DEFLECTION, FRONT BLADES PARALLEL TO LONG DIMENSION .
*SG-2	TITUS 300RL- HD	SIDEWALL SUPPLY GRILLE	AS NOTED	COORDINATE WITH ARCHITECT		OPPOSED BLADE DAMPER	PROVIDE W/ 3/4" SPACED BLADES, 22.5° DEFLECTION, FRONT BLADES PARALLEL TO LONG DIMENSION & EXTRACTOR .
RG-1	TITUS 350RL	SIDEWALL RETURN GRILLE	AS NOTED	COORDINATE WITH ARCHITECT		OPPOSED BLADE DAMPER	PROVIDE W/ 3/4" SPACED BLADES, 22.5° DEFLECTION, FRONT BLADES PARALLEL TO LONG DIMENSION .

* : SEE ALTERNATE DUCT PRICING NOTE ON SHEET M1.01 FOR CORD. OF CORRECT AIR DEVICES.

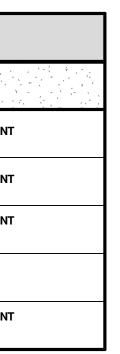
DUCT HEATER SCHEDULE

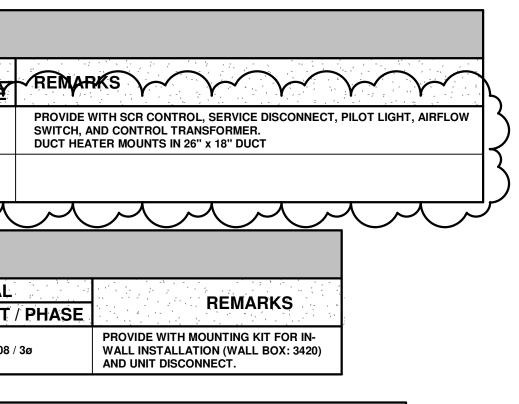
	NEGIC		SERVES	LOCAT				MIN	HEA	ŢING	ELEGIR	
			PERVYO		γ~τΥΡΕγ~		Ćŕm	FPM	YKW	B TU/HR	AMPS Y	VOLT PHASE
] ۲	EDH-1	GREENHECK / IDHE	AHU-1	MECH. ROOM	SLIP IN DUCT MOUNTED	2,700	1,196 CFM AT 60°F	368 FPM AT 60°F	34	116,012	96	208/3ø
ک	EDH-2	NOT USED										
Ţ				\mathcal{A}		$\overline{\mathcal{A}}$	$\overline{\mathbf{x}}$	く	$\overline{\mathbf{x}}$			

	UNIT HE	EATER	SCH	EDU	LE						
DESIG.	MFR/MDL	SERVES	LOCAT	TYPE	CFM	<u>, </u>	ATING	<u> </u>	OWER	ELEC	TRICAL
DESIG.		JERVED	LUCAI			WATTS	BTU / HOUR		VOLT / PHASE	AMPS	VOLT
EUH-1	MARKEL / J3422T	MECH. BASEMENT	MECH. BASEMENT	WALL HEATER		2,000	6,826			5.6	208 /

	EXHAUS	T FAN	SCHE	EDULE												
DESIG.	MFR/MDL	SERVES	LOCAT.	ТҮРЕ				FAN DAT	`A	2			ΜΟΤΟ	R DAT	ΓΑ (***)	
		JERVES			CFM	S.P.	RPM (DRIVE	TYPE	DIA.	SONES	RPM	BHP	HP.	VOLT/PH	REMARKS
EF-1	COOK / GC/GCVF GC-146	RR 103	CEILING MOUNT	INLINE	75	0.35"	900	DIRECT	CENTR.		1.5	1,100		35 W	120 / 1ø	PROVIDE W/ WALL SLEEVE , BACKDRAFT DAMPER, FAN SPEED CONTROL, BIRD SCREEN, AND DISCONNECT SWITCH.
EF-2	COOK / GC/GCVF GC-146	RR 103	CELING MOUNT	INLINE	75	0.35"	900	DIRECT	CENTR.		1.5	1,100		35 W	120 / 1ø	PROVIDE W/ WALL SLEEVE , BACKDRAFT DAMPER, FAN SPEED CONTROL, BIRD SCREEN, AND DISCONNECT SWITCH.

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DUCTW	ORK LEGEND
	CEILING DIFFUSER (CD)
	RETURN AIR GRILLE (RA)
\square	EXHAUST REGISTER (ER)
624 CD-1 100 CFM	SIZE - DESIGNATION CUBIC FEET PER MINUTE
	FLEXIBLE DUCT CONNECTOR
	TURNING VANES
	SPLITTER DAMPER (TEE)
	INTERNALLY INSULATED DUCT
	EXTRACTOR
↓ F ^{M.D.} ↓	MANUAL DAMPER
	FIRE DAMPER AND ACCESS DOOR (SMOKE DAMPER S.D. SIMILAR)
∽ −CD −−\$	CONDENSATE DRAIN PIPING
∽OD→	OVERFLOW CONDENSATE DRAIN PIPING
5 RS/RL 5	REFRIGERANT SUCTION AND LIQUID PIPES
Φ	DIAMETER
(\overline{D}_5)	THERMOSTAT (WITH UNIT NUMBER)
1 DETAIL 2 M-2 SECTION	TOP NUMBER REFERS TO THE DETAIL NUMBER. BOTTOM NUMBER REFERS TO THE SHEET WHERE DETAIL IS SHOWN

o E

o F

STAINLESS STEEL DRAIN PAN W/ OVERFLOW SWITCH, 2" MERV

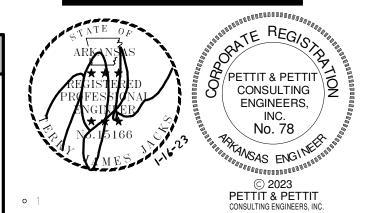
EGRATED CONTROLLER W/ CAPABILTIES FOR EXTERNAL T HEATER CONTROL & FACTORY MOUNTED DISCONNECT.

HVAC GENERAL NOTES

- DUE TO THE SMALL SCALE OF THIS DRAWING, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK AND SHALL COORDINATE AND ARRANGE HIS WORK ACCORDINGLY.
- 2. ROUND BRANCH DUCT RUNOUTS SHALL BE SAME SIZE AS DIFFUSER THROAT UNLESS OTHERWISE NOTED.
- . FLEXIBLE DUCT MAY BE USED FOR FINAL CONNECTIONS TO DIFFUSERS. A MAXIMUM LENGTH OF THREE FEET (3') SHALL BE USED. A HARD 90° ELBOW MUST BE USED WHERE DUCT TURNS DOWN ABOVE DIFFUSER.
- 4. ALL CEILING-MOUNTED SUPPLY DIFFUSERS SHALL HAVE FOUR-WAY (4-WAY) PATTERN UNLESS OTHERWISE INDICATED.
- 5. WHERE MANUAL DAMPERS ARE INSTALLED IN EXTERNALLY INSULATED DUCTWORK, PROVIDE STAND-OFF BRACKET TO PREVENT COMPRESSION OF INSULATION BY DAMPER OPERATOR HANDLE.
- 6. PROVIDE TURNING VANES IN ALL 90-DEGREE MITERED ELBOWS.
- PROVIDE SLEEVES THROUGH WALLS AND FLOORS. SEAL EXCESS OPENING WITH WATER-PROOF SEALANT. COORDINATE LOCATIONS AND SIZES OF SLEEVES WITH GENERAL CONTRACTOR. SLEEVES SHALL PROVIDE A MAXIMUM OF 1" CLEARANCE BETWEEN DUCT OR PIPE AND SLEEVE. SEAL PENETRATION IN FIRE/SMOKE RATED WALLS AND FLOOR WITH AN APPROVED FIRE/SMOKE BLOCK SEALANT.
- 8. EXTERNALLY INSULATE SUPPLY, RETURN, RELIEF, AND OUTSIDE AIR DUCTWORK UNLESS NOTED OTHERWISE.
- 9. EXHAUST DUCTWORK SHALL BE UN-INSULATED, UNLESS NOTED OTHERWISE
- 10. EXTERNALLY INSULATE LOW-VELOCITY ROUND RUNOUT DUCTWORK
- 11. DUAL WALL DUCTWORK SHALL BE 1" THICK WITH INSULATION BETWEEN WALLS.
- 12. INSULATE THE TOP OF ALL SUPPLY AIR DIFFUSERS WITH A MINIMUM OF 1/2" THICK FIBERGLASS DUCT WRAP.
- 13. RUN COOLING COIL CONDENSATE DRAINS FULL SIZE TO NEAREST FLOOR OR ROOF DRAIN.
- 14. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE AND SMOKE RATED PARTITIONS.
- 15. COORDINATE LOCATION OF DUCTS AND DIFFUSERS WITH STRUCTURAL FRAMING MEMBERS. OFFSET DUCTS AS REQUIRED TO CLEAR STRUCTURAL MEMBERS.
- 16. COORDINATE LOCATIONS AND ELEVATION OF DUCT RUNS WITH PLUMBING, SPRINKLER, AND ELECTRICAL CONTRACTORS.
- 17. COORDINATE MAKE-UP WATER AND GAS REQUIREMENTS WITH PLUMBING CONTRACTOR.
- 18. PROVIDE ACCESS DOORS FOR ALL FIRE DAMPERS. PROVIDE CEILING ACCESS DOORS FOR DAMPERS ABOVE GYPSUM BOARD CEILINGS.
- 19. PAINT DUCTWORK BLACK THAT MAY BE VISIBLE ABOVE PARTIAL CEILINGS. COORDINATE PAINTING OF DUCTWORK WITH ARCHITECT.
- 20. COORDINATE CEILING DIFFUSER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.



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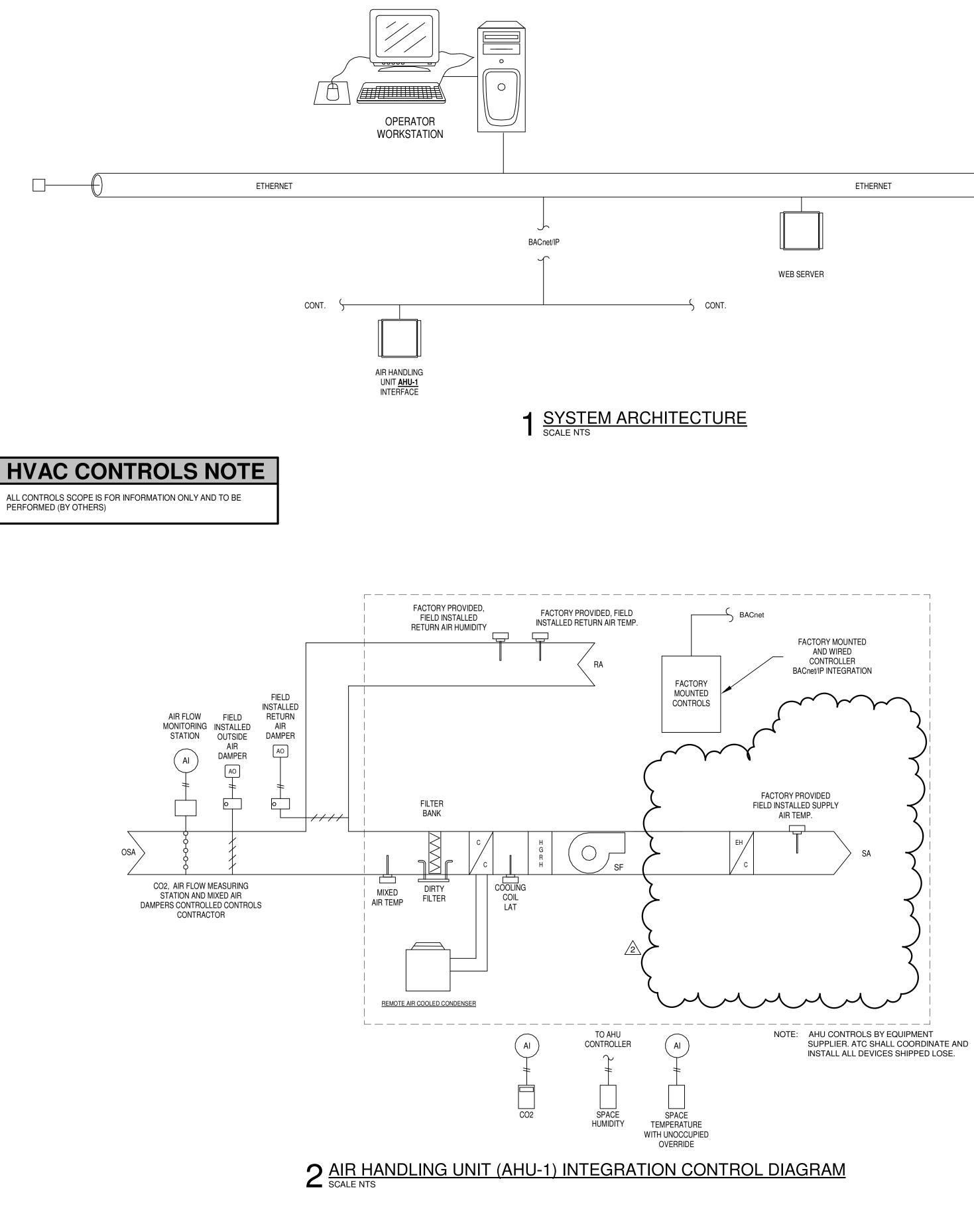
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REVISIONS: 08/02/23

PROJECT NO. 21085 DATE: January 16, 2023

HVAC SCHEDULES

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SEQUENCE OF OPERATIONS (AHU-1 & CU-1)

UNIT OPERATION UNIT OPERATION IS INITIATED WHEN ALL POINTS ARE IN THEIR RUN POSITIONS.

SYSTEM ENABLE: THE SYSTEM ENABLE IS CONTROLLED AT THE UNIT'S DISPLAY TERMINAL, WITHIN THE SYSTEM ENABLE MENU. REMOTE STOP/START: REMOTE STOP/START NC CONTACTS ARE PROVIDED ON ALL UNITS AND SHIP FROM THE FACTORY JUMPERED FOR CONTINUOUS OPERATION.

BMS CONTROL: THE UNIT IS PROVIDED WITH AN OPTIONAL POINT THAT MAY BE WRITTEN BY A BMS TO INDEX UNIT OPERATION. SCHEDULE CONTROL: THE UNIT IS PROVIDED WITH A LOCAL SCHEDULE THAT MAY BE SET TO OPERATE THE UNIT IN OCCUPIED OR UNOCCUPIED MODES BASED ON ITS TIME CLOCK.

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FAN CONTROL WHEN THE UNIT IS INDEXED FOR OPERATION AND IN ITS OCCUPIED MODE, THE SUPPLY FAN SHALL BE ENERGIZED AFTER A 30 SEC. (ADJ.) DELAY TO ALLOW FOR OPTIONAL CONTROL DAMPER ACTUATION. THE FAN SHALL RUN CONTINUOUSLY. AFTER AN ADDITIONAL 15 SEC. (ADJ.) DELAY TO ALLOW FOR AIR PROVING, THE UNIT SHALL OPERATE AS DESCRIBED HEREIN.

SYSTEM MODE THE UNIT PROVIDES AUTOMATIC CHANGE-OVER BETWEEN COOLING, HEATING, AND DEHUMIDIFICATION. THE COOLING AND HEATING SET POINTS ARE SEPARATED BY A DEAD BAND 5°F (ADJ.) TO MINIMIZE UNIT CYCLING AND PREVENT SIMULTANEOUS COOLING AND HEATING. THE DEHUMIDIFICATION SET POINTS ARE ALSO SEPARATED BY A DEAD BAND 10% (ADJ.) .

COOLING OPERATION

ON A RISE IN SPACE TEMPERATURE BY 1°F ABOVE THE COOLING SET POINT 72°F (ADJ.), THE UNIT SHALL ENERGIZE ITS FIRST COMPRESSOR STAGE. THE FIRST COMPRESSOR SHALL ENERGIZE AT 100% AND MODULATE TO MEET THE SPACE SET POINT. FOR DUAL CIRCUIT UNITS, ON A RISE IN SPACE TEMPERATURE BY AN ADDITIONAL 1°F, AND A MIN. DELAY OF 3 MIN., THE SECOND COMPRESSOR STAGE SHALL ENERGIZE.

ON A FALL IN SPACE TEMPERATURE, THE SECOND COMPRESSOR STAGE SHALL DE-ENERGIZE. ON A CONTINUED FALL IN SPACE TEMPERATURE, THE FIRST COMPRESSOR STAGE SHALL BE DE-ENERGIZED.

ALL COMPRESSORS ARE SUBJECT TO A MIN. RUN TIME OF 3 MINUTES AND A MIN. OFF TIME OF 3 MINUTES TO PREVENT SHORT CYCLING.

DEHUMIDIFICATION OPERATION IF THE UNIT IS NOT OPERATING IN ITS COOLING OR HEATING MODE AND ON A RISE IN SPACE HUMIDITY ABOVE SET POINTS 55% RH (ADJ.) BY 1% RH, THE UNIT SHALL ENTER ITS DEHUMIDIFICATION MODE. THE UNIT SHALL ENERGIZE ITS FIRST COMPRESSOR. THE FIRST COMPRESSOR SHALL ENERGIZE AT 100% AND MODULATE TO MEET THE SPACE SET POINT.

ON A FALL IN SPACE HUMIDITY, THE FIRST COMPRESSOR SHALL BE DE-ENERGIZED

REHEAT OPERATION

WHEN THE UNIT IS IN ITS DEHUMIDIFICATION MODE, REHEAT IS AVAILABLE TO PREVEN OVERCOOLING OF THE SPACE'. THE HOT GAS REHEAT COIL IS THE FIRST STAGE OF REHEAT. ADDITIONAL ELECTRIC DUCT HEATER EDH-1 SHALL BE ENERGIZED TO MAINTAIN THE HEATING SET POINT.

HEATING OPERATION ON A FALL IN SPACE TEMPERATURE BY 1°F BELOW THE HEATING SET POINT OF 70°F (ADJ.), THE ELECTRIC DUCT HEATERS EDH-1 SHALL MODULATE TO MEET THE SPACE SET POINT. ON A RISE IN SPACE TEMPERATURE, THE ELECTRIC DUCT HEATERS EDH-1 SHALL MODULATE TO MAINTAIN SPACE SET POINT. ON A CONTINUED RISE IN SPACE TEMPERATURE, THE ELECTRIC DUCT HEATERS SHALL BE DE-ENERGYZED.

HEAT PUMP OPERATION THE HEAT PUMP OPERATION STAGE SHALL SUPERSEDE THE OTHER HEATING STAGES IN THEIR OPERATIONAL ORDER WHERE CONDITIONS ALLOW.

ON A FALL IN SPACE TEMPERATURE BY 1°F BELOW THE ACTIVE SUPPLY AIR SET POINT, THE UNIT SHALL ENERGIZE ITS FIRST COMPRESSOR STAGE. THE FIRST COMPRESS SHALL ENERGIZE AT 100% AND MODULATE TO MEET THE SPACE SET POINT. ON A FALL IN SPACE TEMPERATURE BY AN ADDITIONAL 1°F, AND A MINIMUM DELAY OF 3 MINUTES, THE SECOND HEAT STAGE SHALL ENERGIZE. ON THE CONTINUED FALL IN SPACE TEMPERATURE THE ELECTRIC DUCT HEATERS SHALL BE ENABLED AS DESCRIBED IN THE HEATING OPERATION SEQUENCE ABOVE.

ON A RISE IN SPACE TEMPERATURE, THE SECOND COMPRESSOR STAGE SHALL DE-ENERGIZE. ON A CONTINUED RISE IN MIXED AIR TEMPERATURE, THE FIRST COMPRESSOR STAGE SHALL DE-ENERGIZE

UNOCCUPIED OPERATION

IF THE UNIT UTILIZES THE SYSTEM SCHEDULE, THEN DURING UNOCCUPIED HOURS THE FAN SHALL BE DE-ENERGIZED. IF THE SPACE TEMPERATURE FALL BELOW THE UNOCCUPIED HEAT SET POINT 60°F (ADJ.) BY 1°F OR RISES ABOVE THE UNOCCUPIED COOLING SET POINT 80°F (ADJ.) BY 1°F, THE FAN SHALL ENERGIZE AND THE UNIT SHALL OPERATE AS DESCRIBED HEREIN. ON SATISFACTION UNOCCUPIED SET POINT, THE UNIT SHALL DE-ENERGIZE THE FAN.

SYSTEM ALARMS

AIR PROVING: A DIFFERENTIAL PRESSURE SWITCH OR CURRENT SENSING SWITCH CLOSES TO CONFIRM AIRFLOW PRIOR TO THE ACTIVATION OF OTHER MECHANICAL COMPONENTS. IF THE SWITCH DOESN'T CLOSE AFTER AND ADJ. TIME DELAY OR OPENS DURING UNIT OPERATION, THE UNIT SHALL LOCK-OUT OPERATION AND ENUNCIATE AN ALARM.

DIRTY FILTER: AN ADJ. DIFFERENTIAL PRESSURE SWITCH SHALL OPEN WHEN THE PRESSURE DROPS ACROSS THE FILTER EXCEED THE DESIRED RESSURE DROP AND ENUNCIATES AN ALARM.

CONDENSATE ALARM: A CONDENSATE PAN SWITCH CONNECTED TO THE PAN INDICATED THE EVENT OF A HIGH WATER LEVEL STATUS. ON A HIGH CONDENSATE CONDITION, THE CIRCUIT WILL OPEN AND SHUT DOWN ALL MECHANICAL COOLING OR LOCK OUT UNIT OPERATION AND ENUNCIATE AN ALARM.

LIFE SAFETY: A DUCT MOUNTED SMOKE DETECTOR SHALL OPEN A RELAY AND BREAK CONTROL POWER TO THE MICROPROCESSOR. UNIT OPERATION SHALL CEASE. THE LIFE SAFETY ALARM SHALL BE ROUTED THROUGH THE CONTROLLER TO ENUNCIATE AN ALARM AND SIGNAL THE BMS.

OUTSIDE AIR CONTROL

SPACE CO2 LEVELS SHALL BE MONITORED. IF SPACE CO2 EXCEEDS 1,100 PPM THE OUTSIDE AIR DAMPER SHALL BE MODULATED LINEARLY TO THE MAX OSA BASED UPON DEVIATION FROM CO2 SETPOINT UNTIL SATISFACTORY SPACE CO2 LEVELS ARE REACHED.



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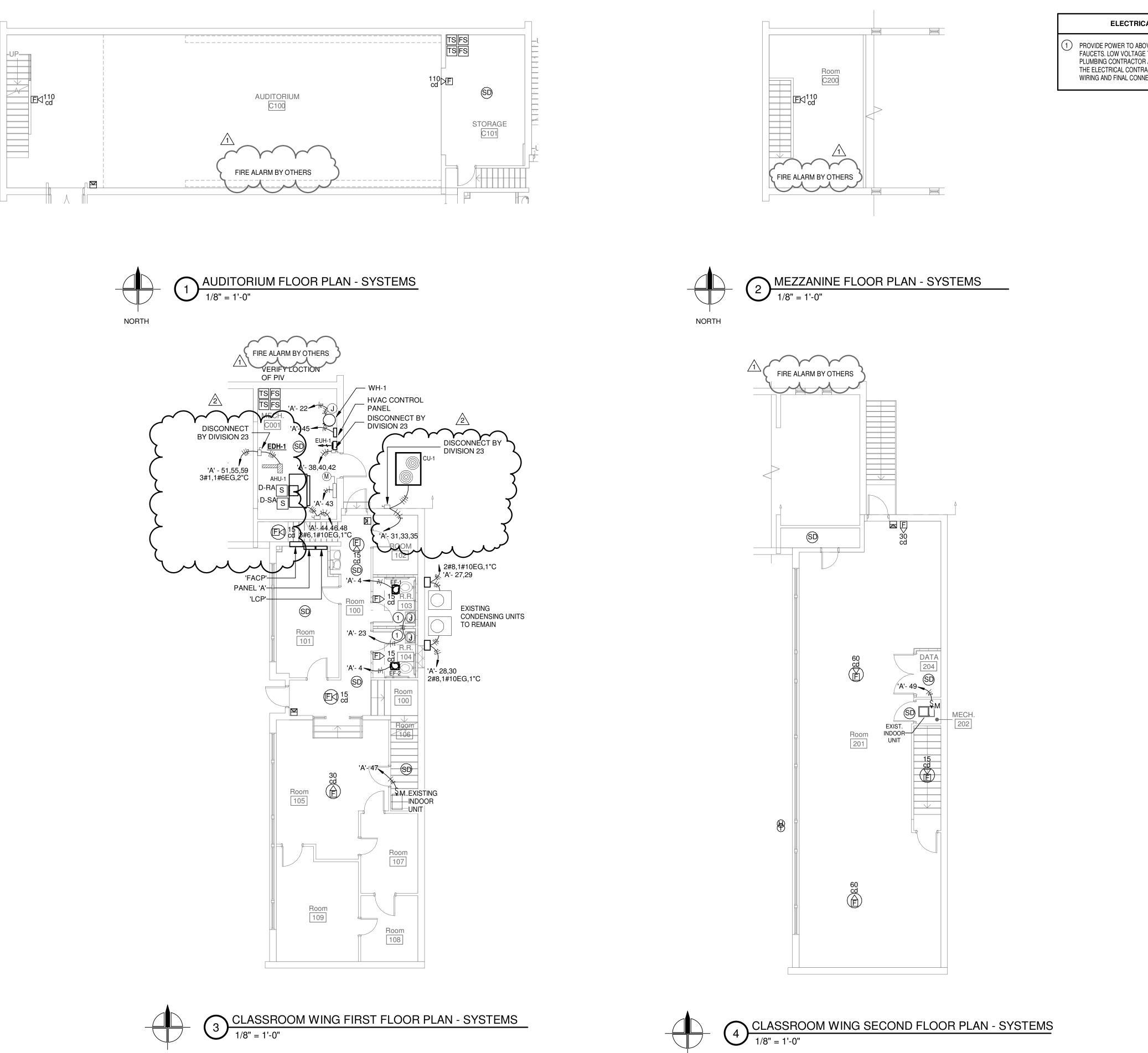
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REVISIONS: 08/02/23

PROJECT NO. 21085 DATE: January 16, 2023

HVAC CONTROLS

M5.01





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ELECTRICAL SYSTEMS KEYED NOTES

PROVIDE POWER TO ABOVE CEILING JUNCTION BOX FOR AUTOMATIC FAUCETS. LOW VOLTAGE TRANSFORMER SHALL BE PROVIDED BY PLUMBING CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR LOW VOLTAGE WIRING AND FINAL CONNECTION AT AUTOMATIC FIXTURES.



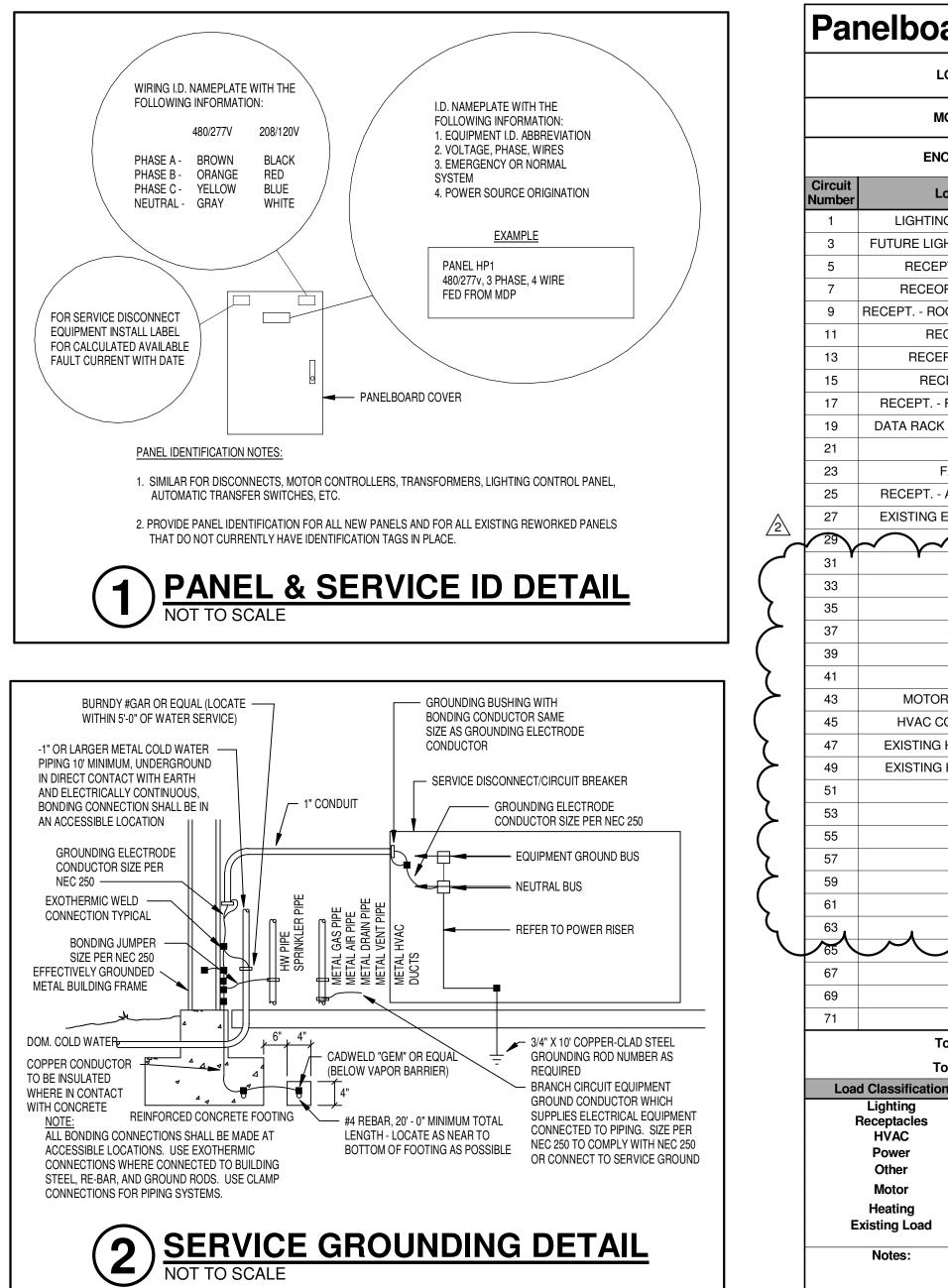
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ASI 01	09/13/22
PR 02	08/02/23
	PROJECT NO.
	21085
	DATE:
	January 16, 2023
FLO	OR PLANS -

SYSTEMS

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		LIGHT FIXTURE SO	CHEDUL	E
TYPE MARK	MANUFACTURER	MODEL	ELECTRICAL DATA	DESCRIPTION
A	COOPER	CPX 2X2 5000LM 80CRI 40K XXX MIN10 ZT MVOLT	120 V/1-39 VA	2X2 LED FLAT PANEL
A/E	COOPER	CPX 2X2 5000LM 80CRI 40K XXX MIN10 ZT MVOLT-E10WLCP	120 V/1-39 VA	2X2 LED FLAT PANEL - EM BATT
В	ACUITY	LDN6 AL02 SWW1 L06 XX LD MVOLT 90CRI	120 V/1-25 VA	6" DOWNLIGHT
B/E	ACUITY	LDN6 AL02 SWW1 L06 XX LD MVOLT 90CRI E10WCP	120 V/1-25 VA	6" DOWNLIGHT - EM BATT
C1	ACUITY	S1LS LXX 23" FT MSLX 90CRI 40K 1000LMF MINI EGLD MVOLT XXX ZT	120 V/1-19 VA	23' LED DIRECT WALL
C/E	ACUITY	S2LWD 12FT MSL4/MSL8 90CRI 40K 1000LMF MINI EGLD MVOLT XXX ZT	120 V/1-19 VA	SLOT 2 LED DIRECT WALL
D1	ACUITY	ZL1N L48 3000LM FST MVOLT 40K 90CRI XXX XX	120 V/1-25 VA	4' STRIP LIGHT
E	ACUITY	WL4 20L MVOLT LF840	120 V/1-0 VA	WALL BRACKET AND SURFACE MOUNT LED
E/E	ACUITY	WL4 20L MVOLT LF840 - NL - EM	120 V/1-0 VA	WALL BRACKET AND SURFACE MOUNT LED - EM BATT
F	BEGA	TBD	120 V/1-30 VA	EXTERIOR WALL PACK - EM BATT
Х	ACUITY	EDG-X-1-R	120 V/1-3 VA	LED CEILING MOUNTED EXIT LIGHT.
X1	ACUITY	ECBR-LED-M6	120 V/1-0 VA	WALL MOUNTED EXIT COMBO LIGHT

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ENCLOSURE	: Туре	1	MFR. AN	ID TYPE:	SQUARE D NQ		SUBFEE	D LUGS	:	RATING						BC - MOUNTED WP - PROVIDED
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YMBOL LEGEND

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