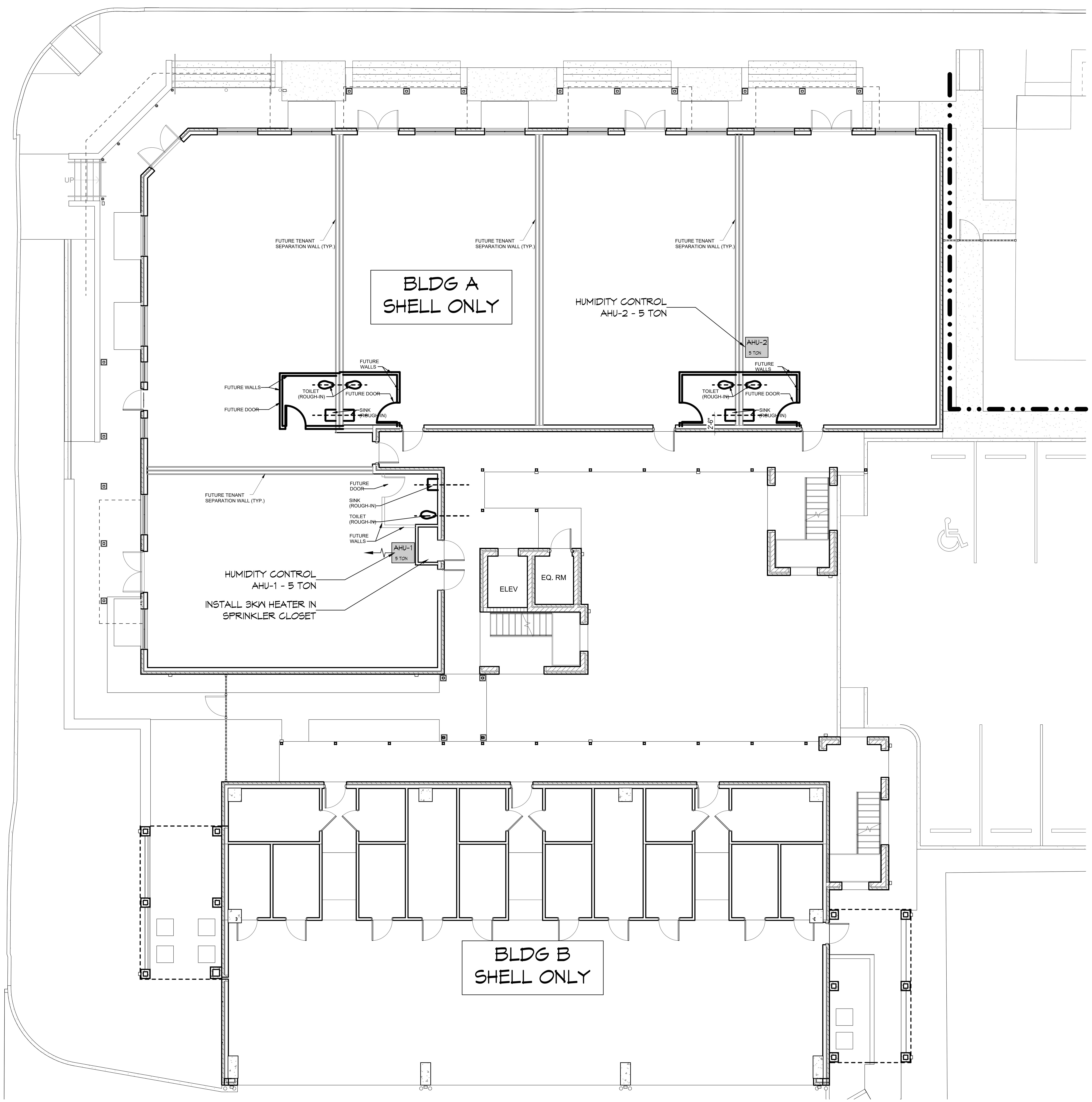


1 FIRST FLOOR MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

HVAC LEGEND

Symbol	Description	Symbol	Description
	4-WAY SUPPLY AIR GRILLE		EXHAUST FAN
	2-WAY SUPPLY AIR GRILLE		EXHAUST VENT
	RETURN AIR GRILLE	T	THERMOSTAT
	AIR SUPPLY VENT	S	SMOKE DETECTOR
	RETURN AIR	VD	DAMPER CONTROL
	SUPPLY AIR		MINI-SPLIT CASSETTE
	EXHAUST AIR		EXTERIOR WALL MOUNTED FAN
	ROUND FLEX DUCT, MAX. LENGTH 12'-0", MIN. R-6. DUCT SIZE AS FOLLOWS: 250 CFM TO 350 CFM = 9"; 200 CFM TO 250 CFM = 8"; 150 CFM TO 200 CFM = 7"; 100 CFM TO 150 CFM = 6		WALL CAP
	CFM / SIZE / MARK		LOUVER
			SLOT DIFFUSER

HVAC CONSTRUCTION NOTES

1. 1ST FLOOR OF BUILDING 'A' SHALL RECEIVE 2 EACH 5-TON HVAC SYSTEMS TO DE-HUMIDIFY THIS FLOOR DURING CONSTRUCTION. ALL OTHER FLOORS OF BUILDING 'A' NOT TO RECEIVE HVAC UNITS UNDER THIS CONSTRUCTION.
2. NO HVAC SYSTEMS TO BE INSTALLED IN BUILDING 'B'.

HVAC NOTES

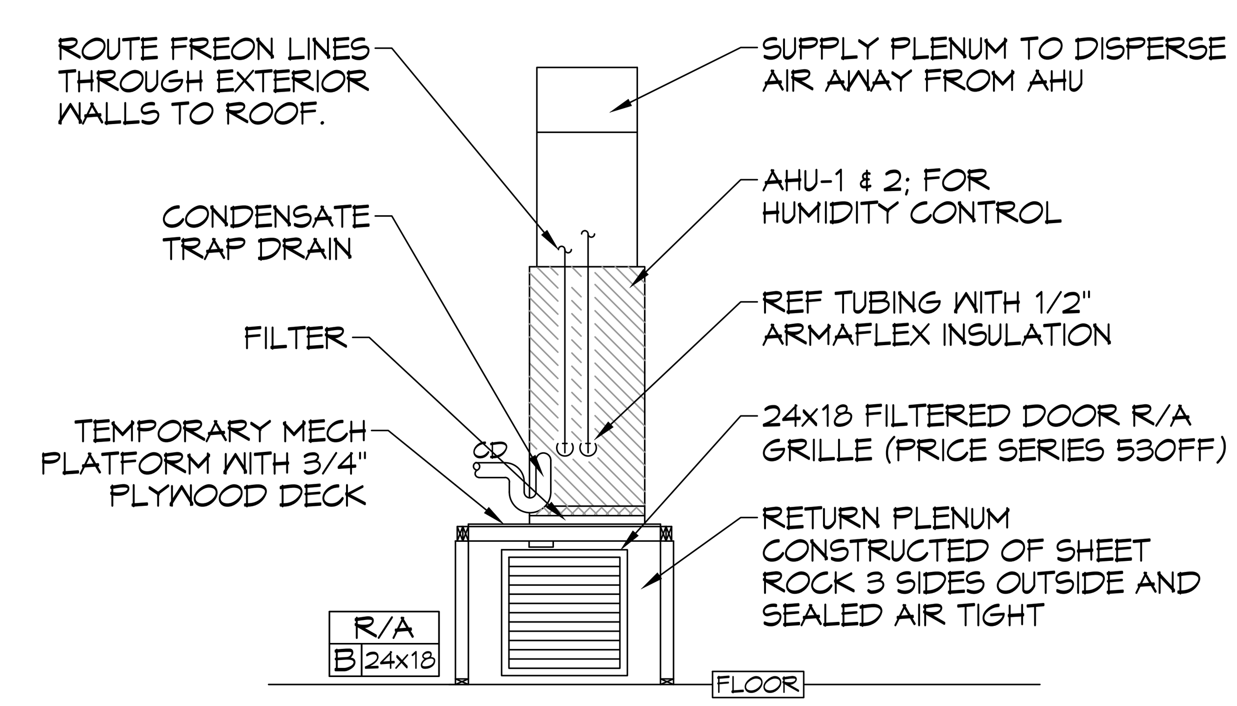
1. ALL WORK AND MATERIAL SHALL CONFORM STRICTLY TO THE LATEST LOCAL CITY, PARISH, STATE AND NATIONAL GOVERNING CODES. MUST MEET IMC & IECC 2021 REQUIREMENTS.
2. CONCEALED DUCTWORK TO BE INSULATED DUCT BOARD IN UNCONDITIONED SPACE SHALL BE TYPE 800 MIN R-8 AND IN CONDITIONED SPACE SHALL BE TYPE 475 MIN R-6. INSTALLED PER SMACNA STANDARDS. DUCT WORK IMMEDIATELY DOWNSTREAM FROM AHU SHALL BE LINED FOR SOUND ATTENUATION.
3. EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-8 FOR UNCONDITIONED SPACE AND MIN R-6 FOR CONDITIONED SPACE. INSTALLED PER SMACNA STANDARDS.
4. ROUND FLEXIBLE DUCT TO BE UL-181, CLASS 1, AIR DUCT MATERIALS.
5. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
6. IN ALL SYSTEMS OVER 2000 CFM AND LESS THAN 15,000 CFM, SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72E IN THE RETURN DUCT DOWNSTREAM OF THE AIR HANDLING UNIT AND ALL FILTERS TO AUTOMATICALLY STOP THE FAN.
7. PROVIDE UL LISTED 125 'F' FIRESTAT IN RETURN AIR OF EACH SYSTEM UNDER 2000 CFM TO SHUT DOWN THE FAN IN THE EVENT OF FIRE.
8. PROVIDE UL RATED FIRE DAMPERS WHERE REQUIRED AT ALL DUCT PENETRATIONS OF FIRE-RATED ASSEMBLIES AND WHERE REQUIRED BY CODE, INCLUDING OUTSIDE AIR INTAKES AND EXHAUST FANS.
9. CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
10. ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOWS PER PLANS.
11. ALL THERMOSTATS TO BE AUTOMATIC CHANGEOVER WITH HEAT SWITCH.
12. EXHAUST FAN SHALL BE CONTROLLED BY A SWITCH ON THE WALL IN THE SAME LOCATION AS LIGHT SWITCH(S). PROVIDE BACK DRAFT DAMPER.
13. PROVIDE AND INSTALL WATER PROOF GRILLE VENT IN PROPER ROOF LOCATION FOR PLUMBING FIXTURE EXHAUST.
14. ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS AT THE REGISTER.
15. LOCATE OUTDOOR UNITS AS SHOWN ON ARCHITECTURAL DRAWINGS.
16. REFRIGERANT LINES SHALL BE SIZED BY UNIT MANUFACTURER AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
17. FRESH AIR SHALL BE SUPPLIED TO EACH AIR HANDLER THROUGH EXTERIOR WALL DUCT SUPPLIED WITH A CONTROL DAMPER.
18. ALL ELECTRICAL, MECHANICAL, AND PLUMBING PENETRATING FIRE WALLS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E8-14).
19. ALL MECHANICAL SYMBOLS ARE DRAWN DIAGRAMMATICALLY, CONTRACTOR TO VERIFY WITH OWNER LOCATIONS OF VENTS, DAMPERS, REGISTERS, ETC.
20. FLEXIBLE DUCTWORK SHALL BE SUPPORTED TO PREVENT SAGGING
21. REFER TO REFLECTED CEILING PLAN FOR FINAL GRILLE AND DIFFUSER LOCATIONS AND COORDINATE AS REQUIRED.
22. FINAL LOCATION OF TEMPERATURE CONTROLS TO BE COORDINATED WITH OWNER AT JOB SITE.
23. PROVIDE AND INSTALL SMOKE DETECTORS AS APPROVED BY LOCAL AHJ'S. PLACE NEAR R/A AND S/A OPENINGS OF AHU AND PROVIDE AN ACCESS PANEL, WIRING BY ELECTRICAL CONTRACTOR.
24. FRESH AIR INTAKES ARE REQUIRED TO HAVE MOTORIZED OR GRAVITY DAMPERS TO SHUT OFF WHEN SYSTEM IS NOT RUNNING.
25. PROVIDE BIRD SCREENS AT ALL EXTERIOR MECHANICAL PENETRATIONS.

AHU UNIT SCHEDULE

MK	TOTAL Btu	CFM	OA	HEAT (KW)	ELECTRICAL			MFR
					VOLT	MCA	MAX O.C.P.	
AHU 1 & 2	60,000 Btu 5 TON	2,000	0	N/A	240V, 1Φ	10	15	TRANE OR EQUAL

CONDENSER UNIT SCHEDULE

MK	TOTAL Btu	ELECTRICAL			MFR
		VOLT	MCA	MAX O.C.P.	
CU 1 & 2	60,000 Btu 5 TON	240V, 1Φ	33	50	TRANE OR EQUAL



A TEMPORARY AHU FOR HUMIDITY CONTROL

TYPICAL DETAILS
SCALE: N.T.S.

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#	DESCRIPTION	DATE
REVISIONS		

SEAL:

SHELL BUILDING
SQUARE 5
OFFICE AND RETAIL MIXED USE AND RESIDENTIAL CONDOMINIUMS
BOSTON STREET AND VERMONT STREET, COVINGTON, LA 70433

JOB No:	2492	DATE:	3/1/2024
DRAWN BY:	CKD	CHECKED BY:	BAM

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SHEET TITLE:
FIRST FLOOR MECHANICAL PLAN

DRAWING NUMBER:
M101

SHEET No: 17 of #