AC SCHEDULE

Evaporator													Condenser						Remarks
TAG	Make / Model	Nom. Tons	Total CFM	COOLING		ESP (" WC)	POWER				HEAT	TAG	Make / Model	Nom. Tons	POWER				
				TOTAL MBH	SENSIBLE MBH		VAC	HZ	PH	MCA	kW				VAC	HZ	PH	MCA	
AHU-1	Carrier 40RUA12	10	3000	161	79	0.4	230	60	3	36.6	10.0	CU-1	Carrier 38AUDC12	10	230	60	3	39	1, 2, 3
AHU-2	Carrier 40RUA12	10	3000	161	79	0.4	230	60	3	36.6	10.0	CU-2	Carrier 38AUDC12	10	230	60	3	39	1, 2, 3
AHU-3	Carrier 40RUA12	10	3000	161	79	0.4	230	60	3	36.6	10.0	CU-3	Carrier 38AUDC12	10	230	60	3	39	1, 2, 3
AHU-4	Carrier FB4CNP060	5	1750	101	52	0.4	230	60	1	33.5	5.0	CU-4	Carrier 24ABB360	5	230	60	1	29	1, 2, 3

NOTES:

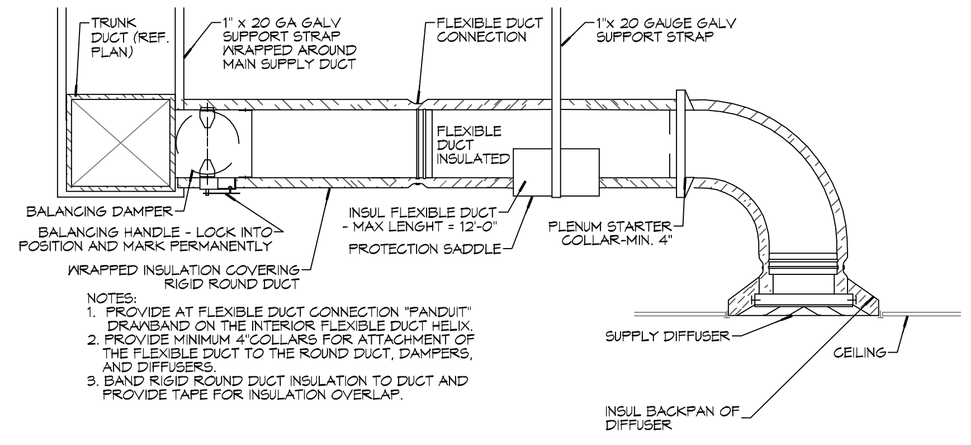
1. Provide condensate overflow switch and programmable 7/24 thermostat with lockable cover.
2. Install units in accordance with Manufacturer's recommendations.

RTU SCHEDULE

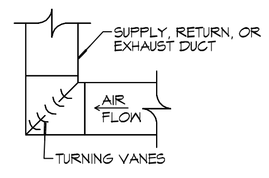
TAG	Make / Model	NOMINAL TONS	TOTAL CFM	COOLING		ESP (" WC)	POWER				HEAT	
				TOTAL MBH	SENSIBLE MBH		VAC	HZ	PH	MCA	kW	
RTU-1	Carrier 50TC10D14	12.5	3600	152.4	75.2	0.4	230	60	3	63	10.4	1, 2, 3, 4
RTU-2	Carrier 50TC10D14	12.5	3600	152.4	75.2	0.4	230	60	3	63	10.4	1, 2, 3, 4

NOTES:

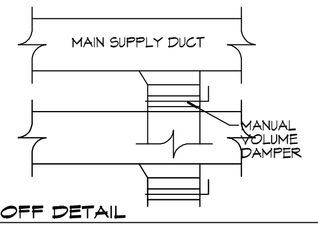
1. Furnish with motorized OA damper, electrical thru base provisions, MERV 8 filters and R/A smoke detector.
2. Provide condensate overflow switch and programmable 7/24 thermostat with lockable cover.
3. Install units in accordance with Manufacturer's recommendations.



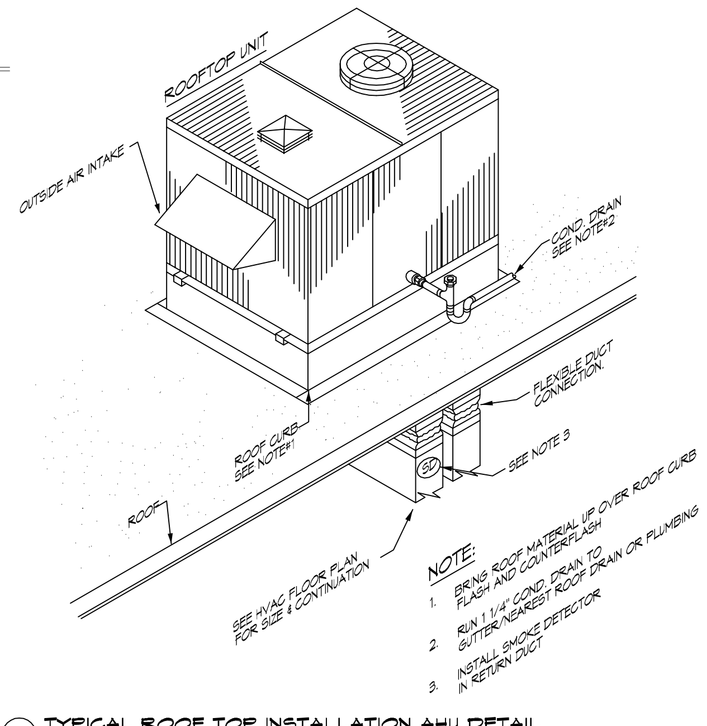
C DIFFUSER CONNECTION DETAIL - FLEX DUCT



B SQUARE ELBOW DETAIL



A SUPPLY DUCT TAKE-OFF DETAIL



D TYPICAL ROOF TOP INSTALLATION AHU DETAIL

3 DETAILS

SCALE: NTS

MECHANICAL HVAC NOTES

1. CONCEALED DUCTWORK TO BE GALVANIZED SHEET METAL WRAPED WITH FIBROUS GLASS DUCT WRAP WITH FSK VAPOR BARRIER, MIN R-6. INSTALLED PER SMACNA STANDARDS. DUCT WORK IMMEDIATELY DOWNSTREAM FROM RTU SHALL BE LINED FOR SOUND ATTENUATION.
2. EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED PER SMACNA STANDARDS.
3. ROUND FLEXIBLE DUCT TO BE UL-181, CLASS 1, AIR DUCT MATERIALS.
4. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
5. 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.
6. 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.
7. 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.
8. CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
9. ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOW PER PLANS.
10. ALL THERMOSTATS TO BE AUTOMATIC CHANGEOVER WITH HEAT SWITCH.
11. EXHAUST FAN SHALL BE CONTROLLED BY A SWITCH ON THE WALL IN THE SAME LOCATION AS LIGHT SWITCH(ES). PROVIDE BACK DRAFT DAMPER.
12. PROVIDE AND INSTALL WATER PROOF GRILLE VENT IN PROPER ROOF LOCATION FOR PLUMBING FIXTURE EXHAUST.
13. ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS AT THE REGISTER.
14. LOCATE OUTDOOR UNITS AS SHOWN ON ARCHITECTURAL DRAWINGS.
15. REFRIGERANT LINES SHALL BE SIZED BY UNIT MANUFACTURER AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
16. FRESH AIR SHALL BE SUPPLIED TO EACH AIR HANDLER THROUGH EXTERIOR WALL DUCT SUPPLIED WITH A CONTROL DAMPER.
17. 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).
18. ALL MECHANICAL SYMBOLS ARE DRAWN DIAGRAMMATICALLY. CONTRACTOR TO VERIFY WITH OWNER LOCATIONS OF VENTS, DAMPERS, REGISTERS, ETC.
19. FLEXIBLE DUCTWORK LENGTH NOT TO EXCEED 12'-0".
20. REFER TO REFLECTED CEILING PLAN FOR FINAL GRILLE AND DIFFUSER LOCATIONS AND COORDINATE AS REQUIRED.
21. FINAL LOCATION OF TEMPERATURE CONTROLS TO BE COORDINATED WITH OWNER AT JOB SITE.
22. PROVIDE AND INSTALL SMOKE DETECTORS AS APPROVED BY LOCAL AHJS. PLACE NEAR R/A AND S/A OPENINGS OF AHU AND PROVIDE, WITH ACCESS PANEL, WIRING BY ELECTRICAL CONTRACTOR.
23. FRESH AIR INTAKES ARE REQUIRED TO HAVE MOTORIZED OR GRAVITY DAMPERS TO SHUT OFF WHEN SYSTEM IS NOT RUNNING.
24. PROVIDE BIRD SCREENS AT ALL EXTERIOR MECHANICAL PENETRATIONS.
25. COORDINATE WALL MOUNTED THERMOSTAT LOCATIONS WITH ALL OWNER FURNISHED ITEMS EITHER WALL MOUNTED OR FLOOR MOUNTED AGAINST PARTITIONS. REFER TO ARCHITECTURAL DRAWINGS.
26. SEE ROOF PLAN FOR ALL ROOF PENETRATIONS.
27. PROVIDE MIN 18 GA GALVANIZED SHEET METAL TO BLANK-OFF GABLE VENTS WHERE INTAKE/EXHAUST DUCTS OCCUR.

LEGEND

- SUPPLY AIR GRILLE 4-WAY
- T — THERMOSTAT
- DAMPER CONTROL
- FD — FIRE DAMPER
- SUPPLY AIR DUCT
- 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"

DAMMON ENGINEERING, INC.
LOUISIANA & MISSISSIPPI
www.dammonengineering.com
info@dammonengineering.com
PH: 985.649.5832
Chief Engineer: Brian Mistich, PE
554 Old Spanish Trail
Slidell, LA 70458

#	DESCRIPTION	DATE

REVISIONS

SEAL:

BOULEVARD AMERICAN BISTRO
LA HWY 21
COVINGTON, LA 70433

JOB No:
DRAWN BY: CJD
CHECKED BY: BAM
DATE: 06-16-2021

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SHEET TITLE:
MECHANICAL SCHEDULES AND DETAILS

DRAWING NUMBER:
M102

SHEET No: 2 of 2