FILE NAME: J:\~ Office Warehouse\Drew Manual\Drawings\Current Drawings\M101 - Mechanical Plan.dwg PLOT DATE & TIME: Tuesday, October 19, 2021 8:40:01 AM

DIFFUSER SCHEDULE

TAG	SERVICE	NECK SIZE	DESCRIPTION
A	Supply Air	Ref. Plan	12"x 12" Adjustable Square Cone Diffuser, Price ASCDA w/ Insulated Back Panel
B	Supply Air	Ref. Plan	12" X 12" Perforated, Ducted Return, Titus PAR
C	Supply Air	Ref. Plan	Adjustable Double Deflection Lover w/ Damper, Price Series 520D
D	Exhaust	Ref. Plan	24" X 24" Perforated, Ducted Return, Titus PAR

Notes:
1. Seal around perimeter of diffusers/grilles to prevent moisture migration from attic space
2. Coordinate with owner / architect for color and finish
3. R value of insulated back panels to exceer R-6

Exhaust Fan Schedule

Tag	Service	Fan			Power			Make / Model	Remarks
		Max. Airflow (CFM)	TSP (" wc)	Watts	Volts	Phase	Hz		
EF-1	Restroom Exhaust	80	0.1	50	120	1	60	Air King FRAS70	1

1. Provide dedicated wall switch and back draft damper.

SPLIT SYSTEM SCHEDULE

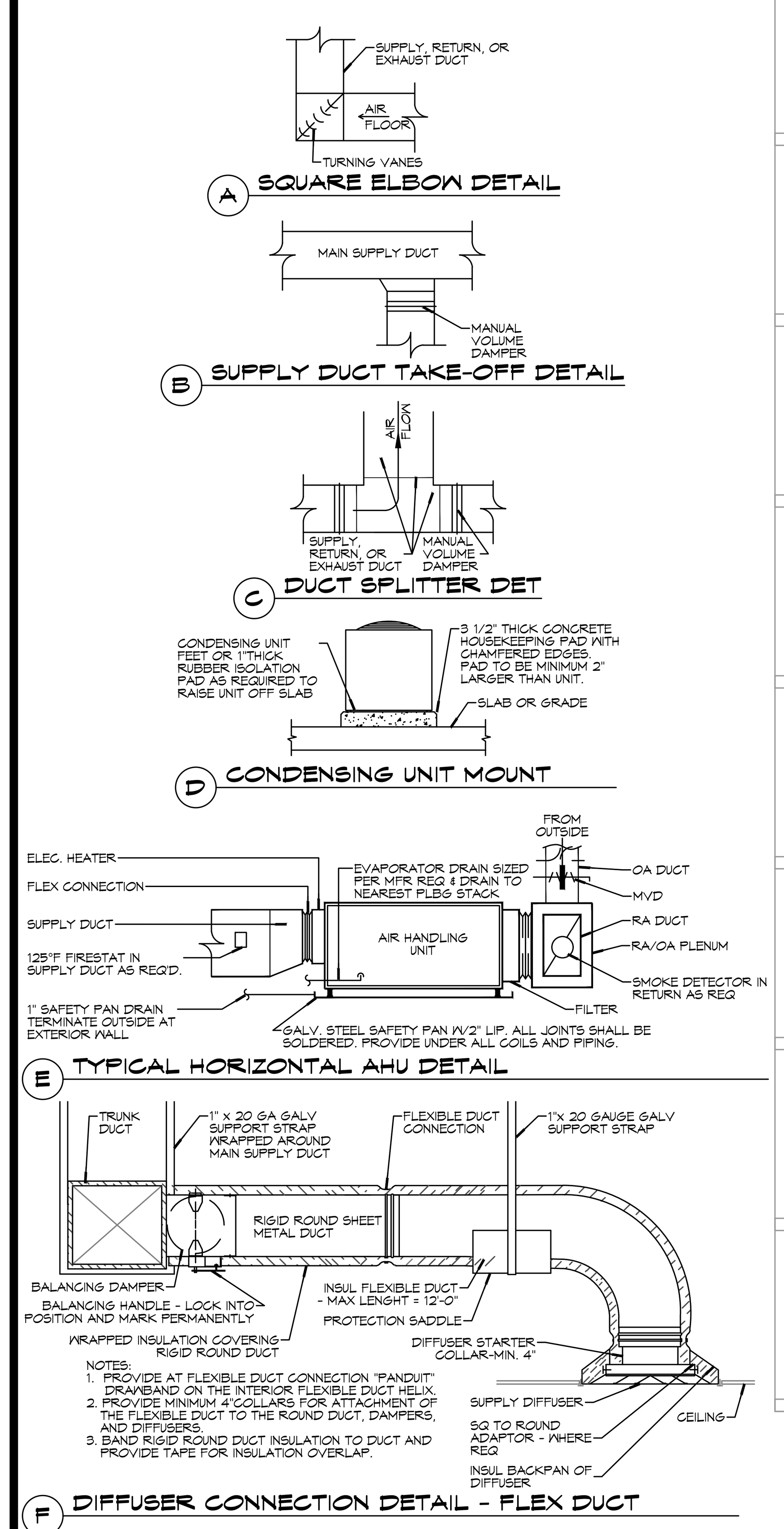
AIR HANDLER													CONDENSER						
TAG	TRANE MODEL NO.	NOMINAL TONS	TOTAL CFM	OA CFM	REQ'D COOLING		Motor HP	ESP (" WC)	HEAT (Kw)	POWER			TAG	NOMINAL TONS	TRANE MODEL NO.	POWER			REMARKS
					TMBH	SBH				VAC	PH	MCA				VAC	PH	MCA	
AHU-1	TEM6A0B24	2	760	200	25.6	16.8	1/3	0.6	2.9	208	1	21	CU-1	2	4TTR5024	208	1	9	1, 2, 3
AHU-2	TEM6A0C42	3.5	1400	200	42.9	28.0	1/2	0.4	5.7	208	1	40	CU-2	3.5	4TTR5042	208	1	23	1, 2, 3
AHU-3	TWA090A1	7.5	3600	1130	99.2	63.9	1-1/2	0.5	4.3				CU-3	7.5	4TTR5048	208	1	34	1, 2, 3

NOTES:
1. Provide inlet filter box, single point power connection, expansion valve, time delay relay, condensate overflow switch & programmable 7/24 thermostat.
2. Cooling capacities to be rated in accordance with AHRI standard 210/290 for ASHRAE standard design weather conditions in New Orleans, LA.
3. Install units in accordance with manufacturer's recommendations.

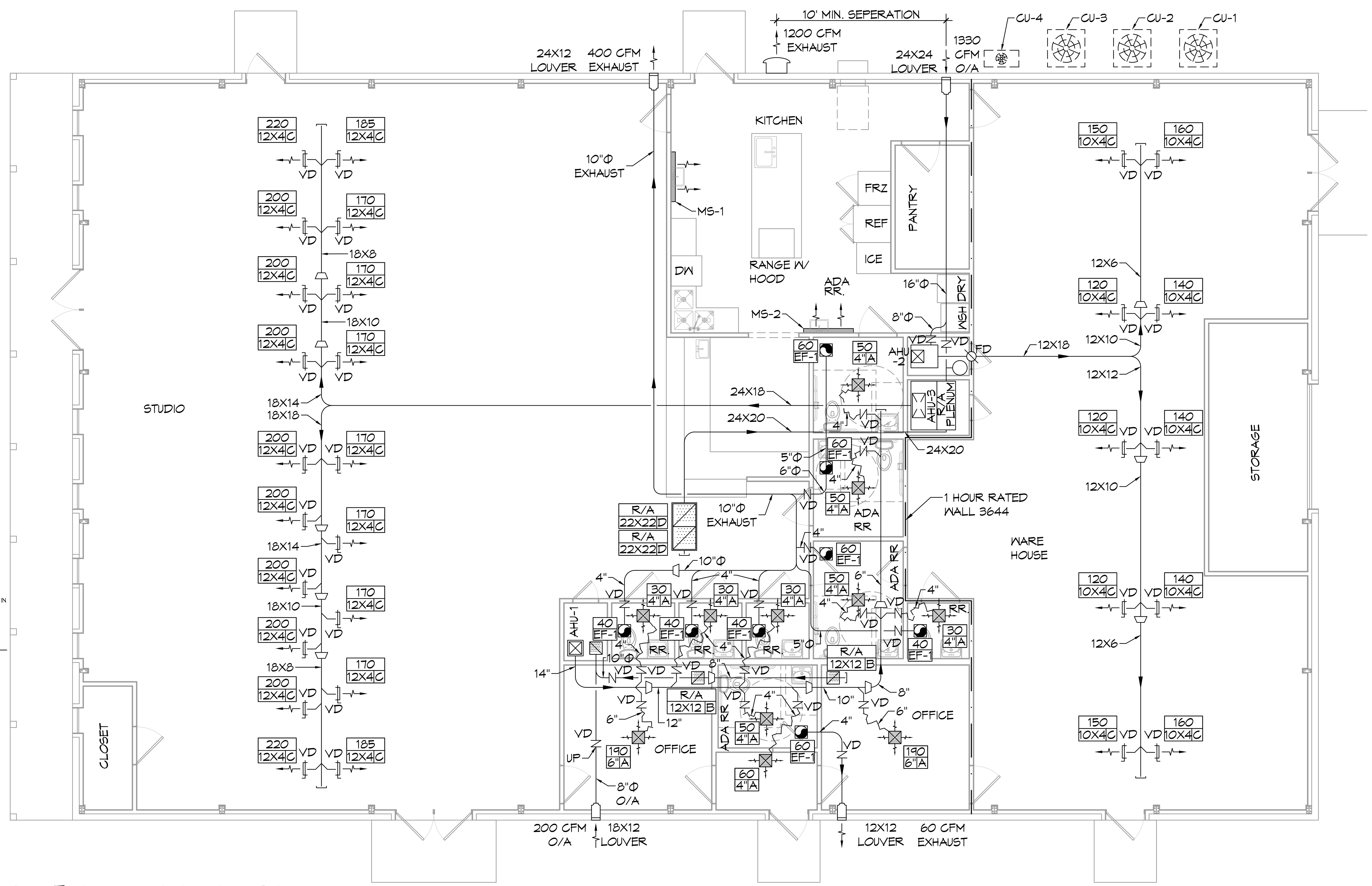
MIN-SPLIT SCHEDULE

AIR HANDLER										HEAT PUMP								
Tag	Tons / Each	Make	Model	Quantity	Airflow (CFM)	Cooling (MBH)	Heating (MBH)	Power		Tag	Make	Model	Cooling (MBH)	Heating (MBH)	Power		MCA	Remarks
								VAC	Ph						VAC	PH		
MS-1, MS-2	1.5	Daikin	FTXS15LVJU	2	568	15	18	208	1	CU-4	Daikin	4MXL36TVJU	34.4	36.6	208	1	32.5	1, 2, 3

NOTES:
1. Cooling capacities to be rated in accordance with AHRI standard 210/290 for ASHRAE standard design weather conditions in New Orleans, LA.
2. Furnish with wired wall thermostat / controller, condensate pump and spare filter media.
3. Install units in accordance with manufacturer's recommendations and drawings.



TYPICAL DETAILS
SCALE: N.T.S.



2 MECHANICAL PLAN
SCALE: 3/16"= 1'-0"

GENERAL 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 FLOWS 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(S). 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". SUPPORT FLEX DUCT TO PREVENT SAGGING
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 AHJ'S. 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.

MECHANICAL LEGEND

- 12"X12" 4-WAY SUPPLY AIR GRILLE
- 2-WAY SUPPLY AIR GRILLE
- SMOKE DETECTOR
- AIR SUPPLY VENT
- 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
- CASSETTE
- 12X12 RETURN AIR FILTER GRILLE
- EXHAUST FAN
- THERMOSTAT
- DAMPER CONTROL (V.D)
- FIRE DAMPER
- 1 HR FIRE RATED WALL
- CFM / NECK SIZE | MARK

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

REVISIONS
#	DESCRIPTION	DATE

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NEW BUILDING
DREW MANUAL
59216 AMBER STREET
SLIDELL, LA 70416

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MECHANICAL PLAN

DRAWING NUMBER:
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