FILE NAME: J:\ - Government\2456 - Allen Road Fire Station 19\Drawings\Current Drawings\M101 - Mechanical Plan.dwg PLOT DATE & TIME: Wednesday, March 23, 2022 9:32:57 AM

SPLIT SYSTEM SCHEDULE

AIR HANDLER												CONDENSING UNIT								
TAG	MAKE/MODEL	NOMINAL TONS	TOTAL CFM	OA CFM	Motor HP	ESP (" WC)	HEAT KW	POWER VAC	POWER PH	POWER MCA	POWER MAX FUSE (AMPS)	TAG	MAKE/MODEL	NOMINAL TONS	POWER VAC	POWER PH	POWER MCA	POWER MAX FUSE (AMPS)	REMARKS
AHU-1	Trane TEM6A0C60	5	1890	460	3/4	0.4	7.6	240	1	44	45	CU-1	Trane 4TTZ6060	5	240	1	34	60	1, 2, 3

NOTES:
1. Provide condensate overflow switch & programmable 7/24 thermostat with lockable cover.
2. Install units in accordance with manufacturer's recommendations.
3. Provide new filters after commissioning and final acceptance.

DIFFUSER SCHEDULE

TAG	SERVICE	NECK SIZE	DESCRIPTION	REMARKS
A	Supply Air	Ref. Plan	24"x 24" Adjustable Square Cone Diffuser, Price ASCDA w/ Insulated Back Panel	1, 2, 3
B	Supply Air	Ref. Plan	12"x 12" Adjustable Square Cone Diffuser, Price ASCDA w/ Insulated Back Panel	1, 2, 3
C	Return Air	Ref. Plan	24" X 24" Perforated, Ducted Return, Titus PAR	1, 2, 3
D	Return Air	Ref. Plan	12" X 12" Perforated, Ducted Return, Titus PAR	1, 2, 3

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

MIN-SPLIT SCHEDULE

AIR HANDLER					OUTDOOR UNIT							
Tag	Make/Model	Cooling (MBH)	Heating (BTUH)	Remarks	Tag	Make/Model	Rated Capacity (MBH)	Power VAC	Power PH	MCA	Max Fuse (Amps)	Remarks
MS-1	Daikin FTX09	9	9,000	1, 2 ,3	HP-1	Daikin RX09	9	240	1	12.1	15	1

NOTES:
1. Install per Manufacturer's recommendations
2. Provide new filters after commissioning and final acceptance.
3. Furnish with condensate pump removal kit and pan "Safe-T" float switch

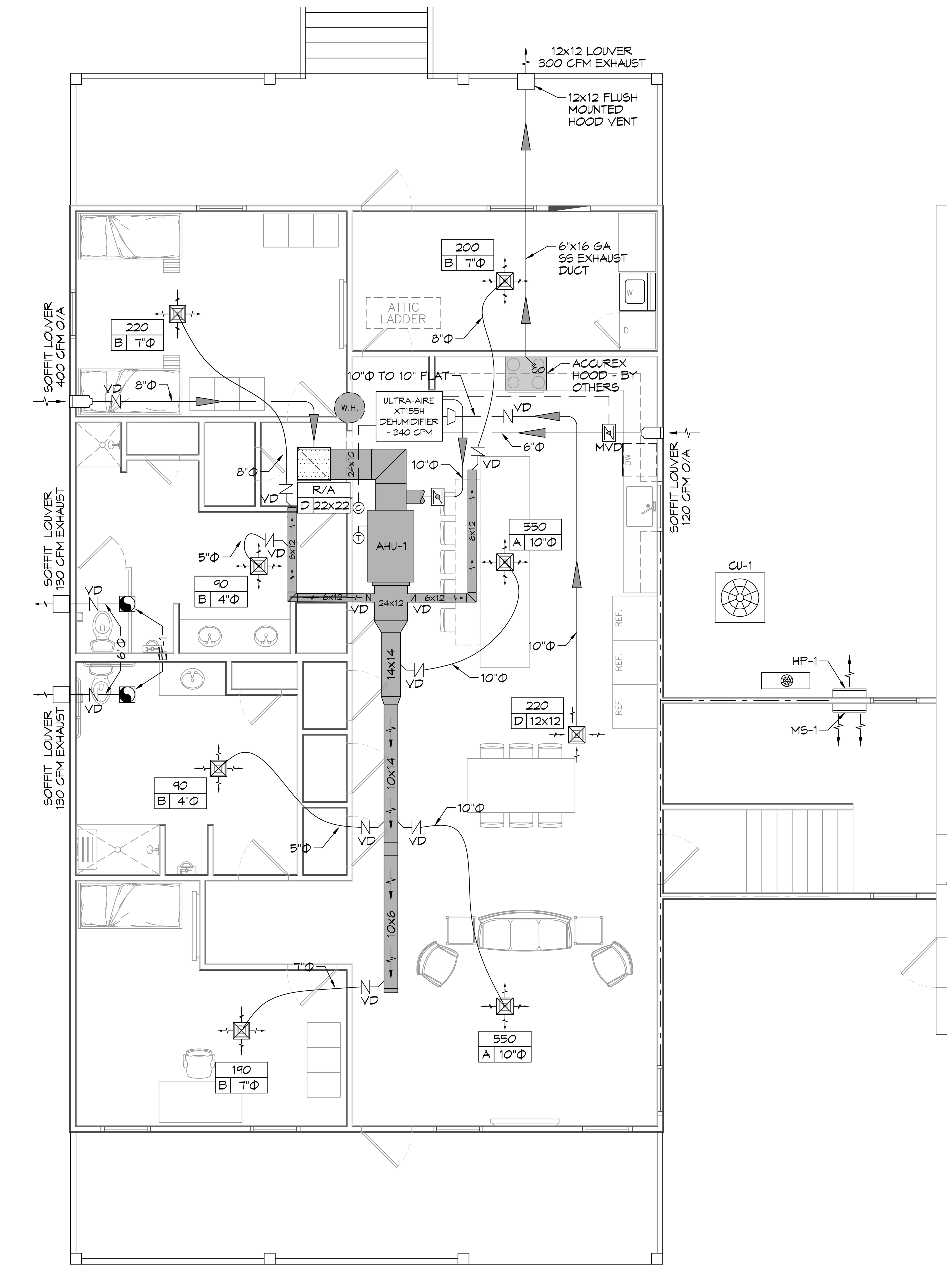
EXHAUST FAN SCHEDULE

TAG	FAN AIRFLOW (CFM)	FAN TSP (" wc)	FAN Watts	FAN TYPE	POWER VAC	POWER PH	POWER HZ	MAKE / MODEL	REMARKS
EF-1	130	0.2	98	Ceiling Exhaust	120	1	60	Cook GC-148	1, 2

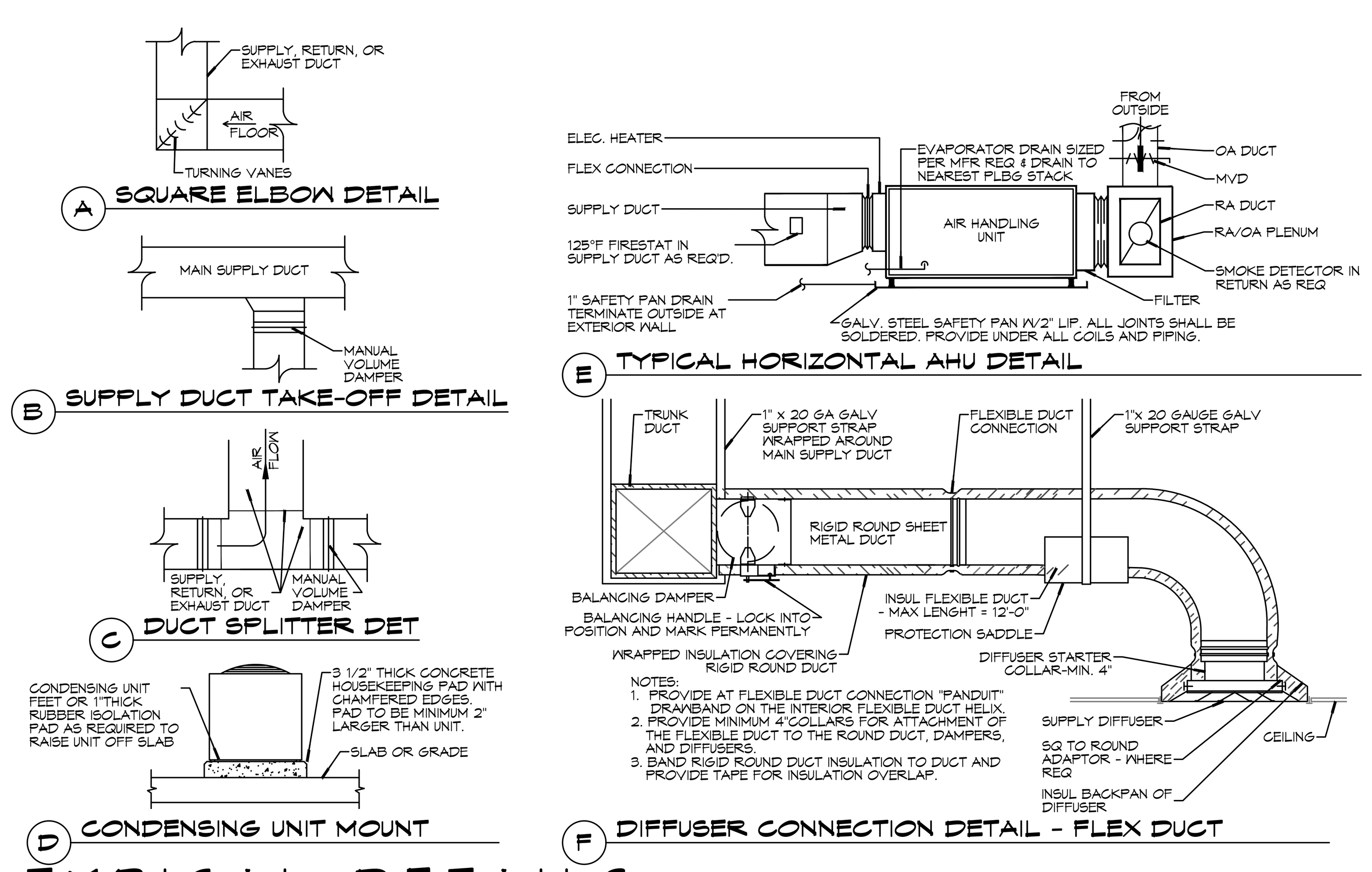
1. Install per manufacturer's recommendations
2. Furnish with inline aluminim grille

HVLS FAN SCHEDULE

MK	LOCATION	SIZE	RPM	HP	PHASE	FR	DESCRIPTION
HVLS 1	ENGINE ROOM	8'Φ	191	1	208	1	HVLS 8'Φ FAN WITH VFD AND WALL MOUNTED CONTROL PANEL BIG ASS FANS POWERFOIL 8-08



17 MECHANICAL PLAN
SCALE: 1/4"= 1'-0"



TYPICAL DETAILS
SCALE: N.T.S.

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.

HVAC LEGEND

- RETURN AIR FILTER
- SUPPLY AIR VENT
- MINI SPLIT
- EXHAUST FAN
- 1 HR RATED WALL
- CLEAN OUT (CO)
- CFM / MK / SIZE
- VD DAMPER CONTROL
- MVD MOTORIZED DAMPER
- BACK DRAFT DAMPER
- (T) THERMOSTAT
- (C) DEHUMIDIFIER CONTROLLER

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
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

SEAL:

ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1
FIRE STATION 19
ALLEN ROAD
SLIDELL, LOUISIANA 70461

JOB No:
DATE: 03-22-2022
DRAWN BY: JMS
CHECKED BY: CKD

The above drawings and specifications, designs and arrangements represented thereby are and shall remain the property of Dammon Engineering, and no part thereof shall be copied, disclosed to others, or used in connection with any work or project other than the specific project for which the have been prepared and developed without written consent of Dammon Engineering. Visual contact with these drawings or specifications shall constitute conclusive evidence of acceptance of these restrictions.

SHEET TITLE: MECHANICAL PLAN

DRAWING NUMBER: M101

SHEET No: 10 of x