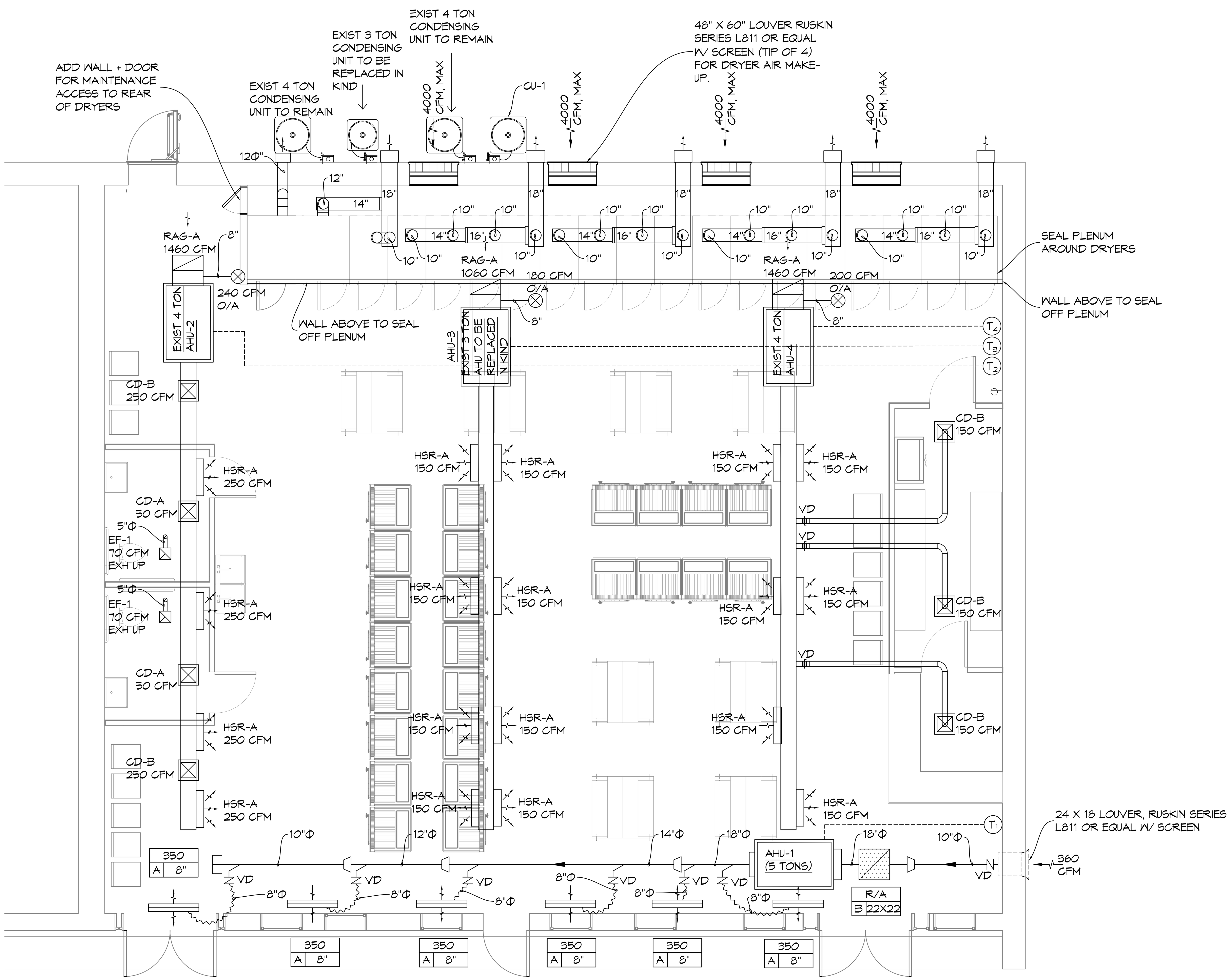
FILE NAME: J:\-- Commercial\Terry Town Laundromat Josh Burkhart\Current Drawings\M101 -- Mechanical Plan.dwg PLOT DATE & TIME: Wednesday, May 20, 2026 2:33:16 PM



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

DX SPLIT SYSTEM SCHEDULE

AIR HANDLER																CONDENSER							
TAG	Make	Model	NOMINAL TONS	TOTAL CFM	O/A (CFM)	COOLING TMBH	Motor	ESP (" WC)	AUX. HEAT (Kw)	POWER VAC	PH	MCA	MOP			TAG	Make	Model	POWER VAC	PH	MCA	MOP	REMARKS
AHU-1	Trane	5TEMCD07	5	2100	360	60	ECM	0.3	5.8	208	1	43	45			CU-1	Trane	4TTA6060	208	1	21	35	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 Provide inlet filter box, single point power connection, condensate overflow switch & programmable 7/24 thermostat.
3 Install units in accordance with manufacturer's recommendations.

Exhaust Fan Schedule

Tag	Fan Airflow (CFM)	Fan TSP (" wc)	Fan Amps	Power Volts	Power Phase	Power Hz	Make / Model	Remarks
EF-1	70	0.2	0.4	120	1	60	Broan A80	1

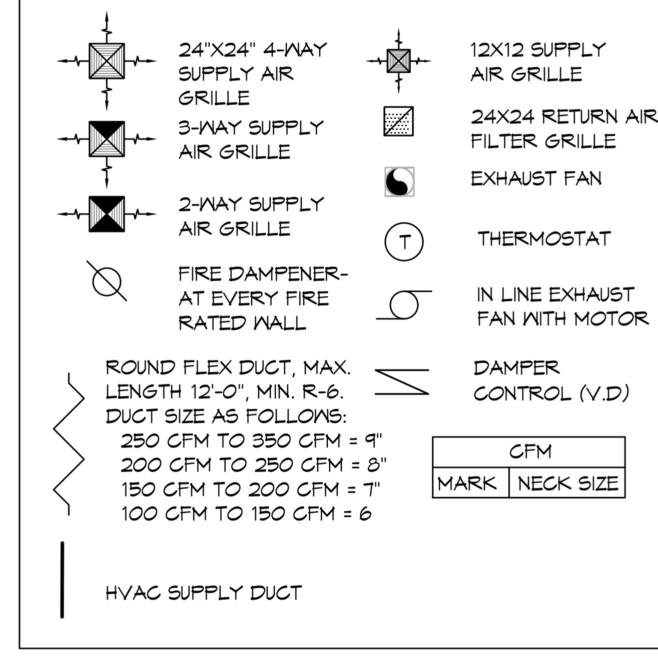
1. Interlock with light switch
2. Install per Manufacturer's recommendations.

DIFFUSER SCHEDULE

TAG	SERVICE	NECK SIZE	DESCRIPTION
A	Supply Air	Ref. Plan	Linear three slot diffuser, 36" Lng x 1-1/2" wide; Price SDS w/ SDB plenum
B	Return Air	Ref. Plan	Filter Return, Price 90-FH w/ Merv 8 Filter Media

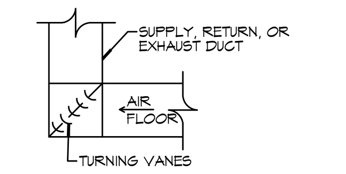
Notes:
1. Seal around perimeter of diffusers/grilles to prevent moisture migration from attic space
2. Coordinate with owner / architect for color and finish
3. R value of insulated back panels to exceer R-6

MECHANICAL LEGEND

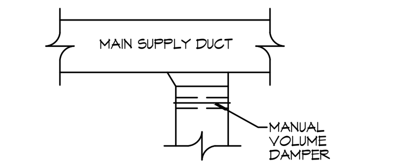


GENERAL HVAC NOTES

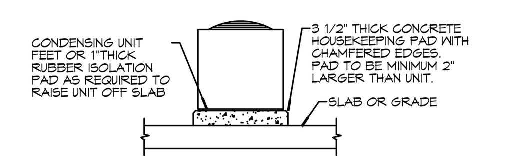
1. CONCEALED DUCTWORK TO BE GALVANIZED SHEET METAL WRAPED WITH FIBROUS GLASS DUCT WRAP WITH FSK VAPOR BARRIER, MIN R-6. INSTALLED PER SMACNA STANDARDS. DUCT WORK IMMEDIATELY DOWNSTREAM FROM RTU SHALL BE LINED FOR SOUND ATTENUATION.
2. EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS 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. PROVIDE MIN 18 GA GALVANIZED SHEET METAL TO BLANK-OFF GABLE VENTS WHERE INTAKE/EXHAUST DUCTS OCCUR.



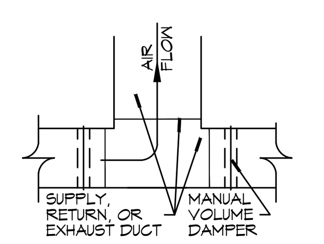
A SQUARE ELBOW DETAIL



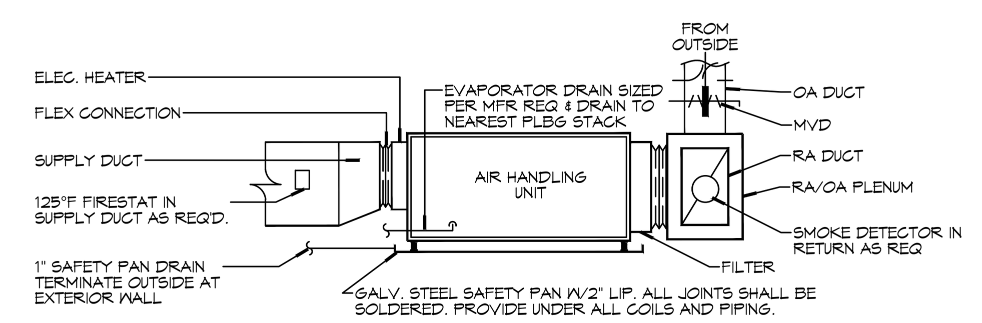
B SUPPLY DUCT TAKE-OFF DETAIL



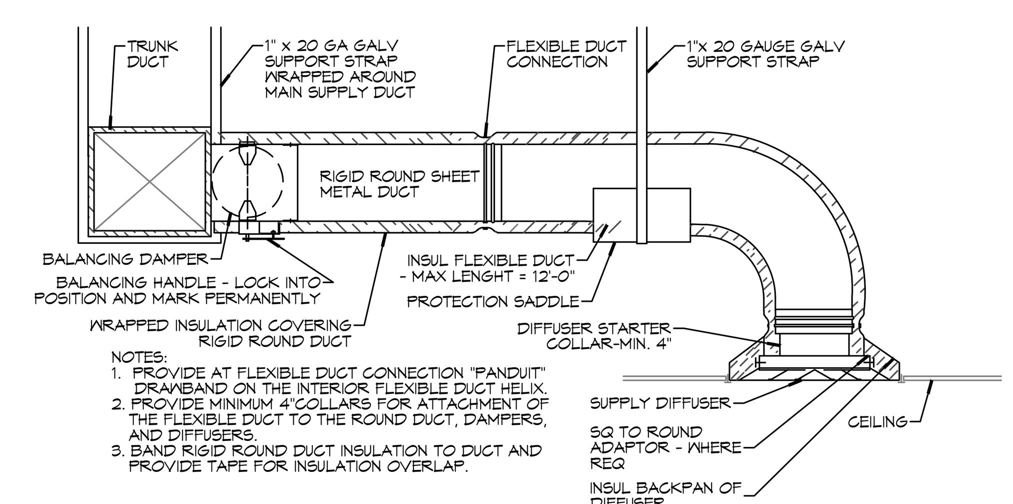
C CONDENSING UNIT MOUNT



D DUCT SPLITTER DET



E TYPICAL HORIZONTAL AHU DETAIL



F DIFFUSER CONNECTION DETAIL - FLEX DUCT

DETAILS
SCALE: N.T.S.

2021 IMC SECTION 403 MECHANICAL VENTILATION 403.3 OUTDOOR AIR AND LOCAL EXHAUST AIRFLOW RATES

OCCUPANCY: COMMERCIAL LAUNDRY
OCCUPANT DENSITY: 20 OCCUPANTS/1000 FT2 @ 2768 FT2 = 55 OCCUPANTS
OCCUPANT OUTDOOR AIRFLOW RATE: (55 OCCUPANTS) * (7.5 CFM/OCCUPANT) = 413 CFM
AREA OUTDOOR AIRFLOW RATE: 0.12/FT2 * 2768 FT2 = 333 CFM

TOTAL OUTDOOR AIR REQUIRED PER IMC = OCCUPANT + AREA AIRFLOW REQUIREMENT = 746 CFM

TOTAL AIRFLOW REQUIRED TO POSITIVELY PRESSURIZE AREA & MIN. INFILTRATION = 980 CFM
REFERENCE INDUSTRIAL VENTILATION STANDARDS (ACGIH)

DAMMON ENGINEERING, INC.
LOUISIANA & MISSISSIPPI
Chief Engineer: Brian Mistich, PE
554 Old Spanish Trail
Slidell, LA 70458
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REVISIONS

#	DESCRIPTION	DATE

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JOB No:	2026	DATE:	05-20-2026
DRAWN BY:	LJP	CHECKED BY:	BAM

SHEET TITLE:
MECHANICAL PLAN

DRAWING NUMBER:
M101

SHEET No: 1 of #1