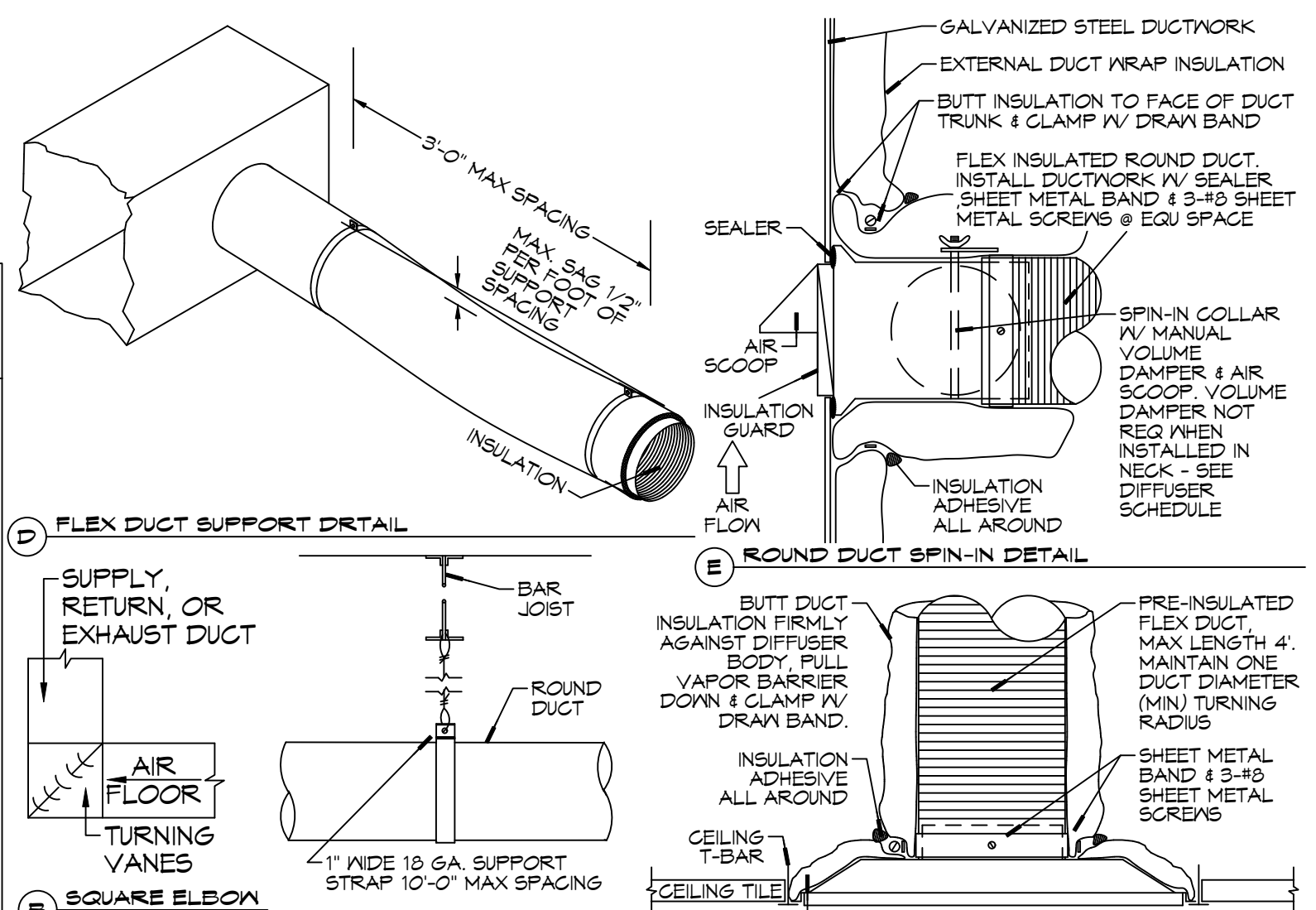
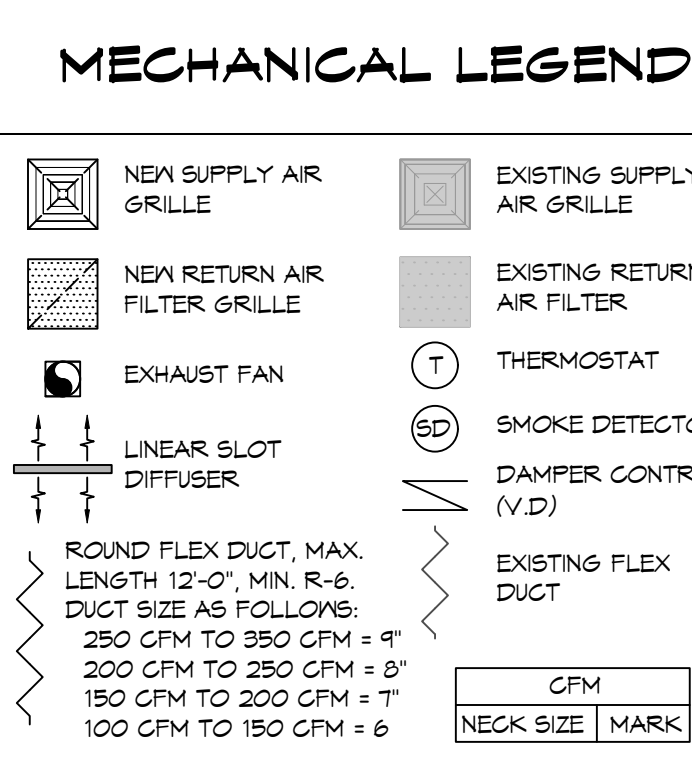
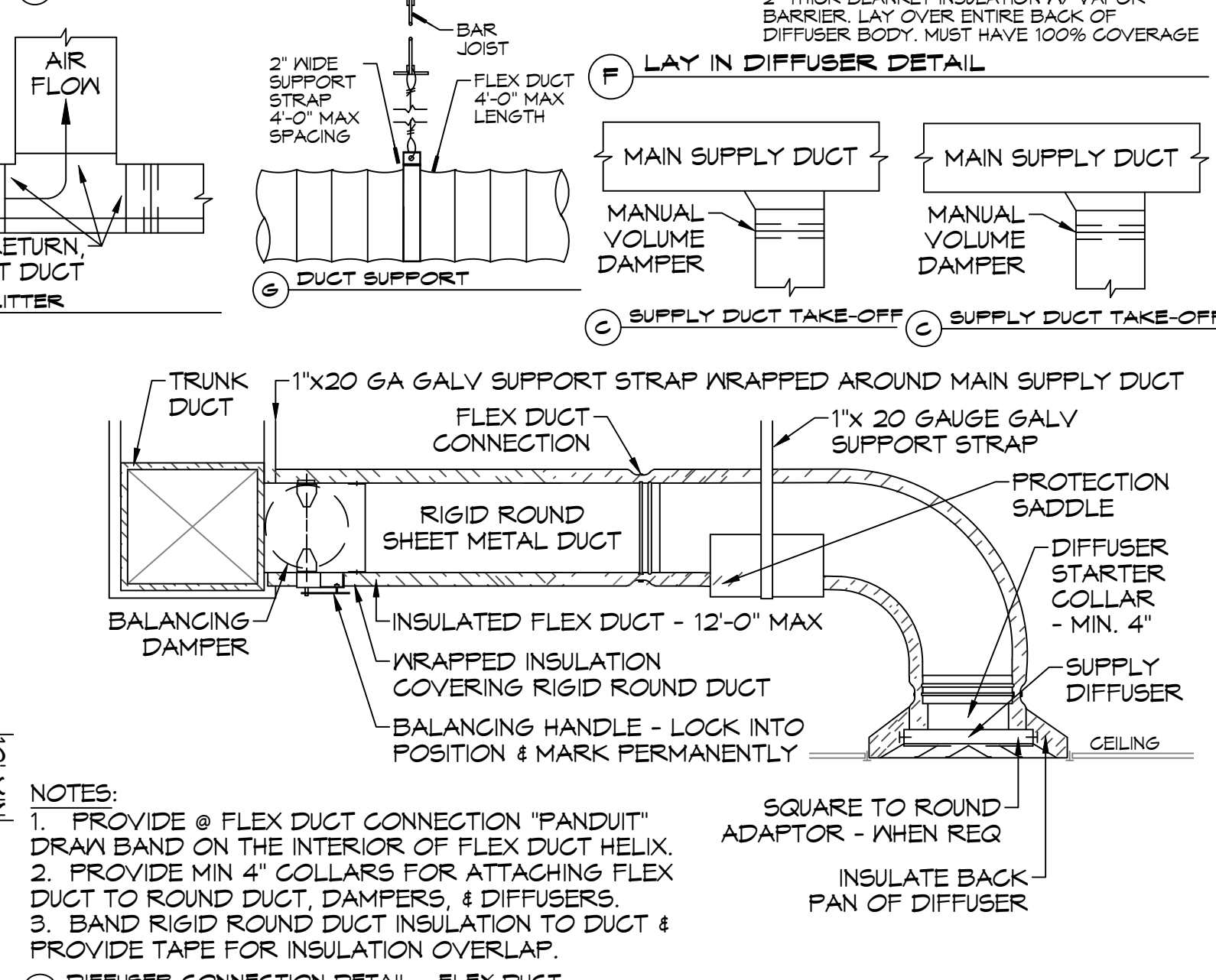
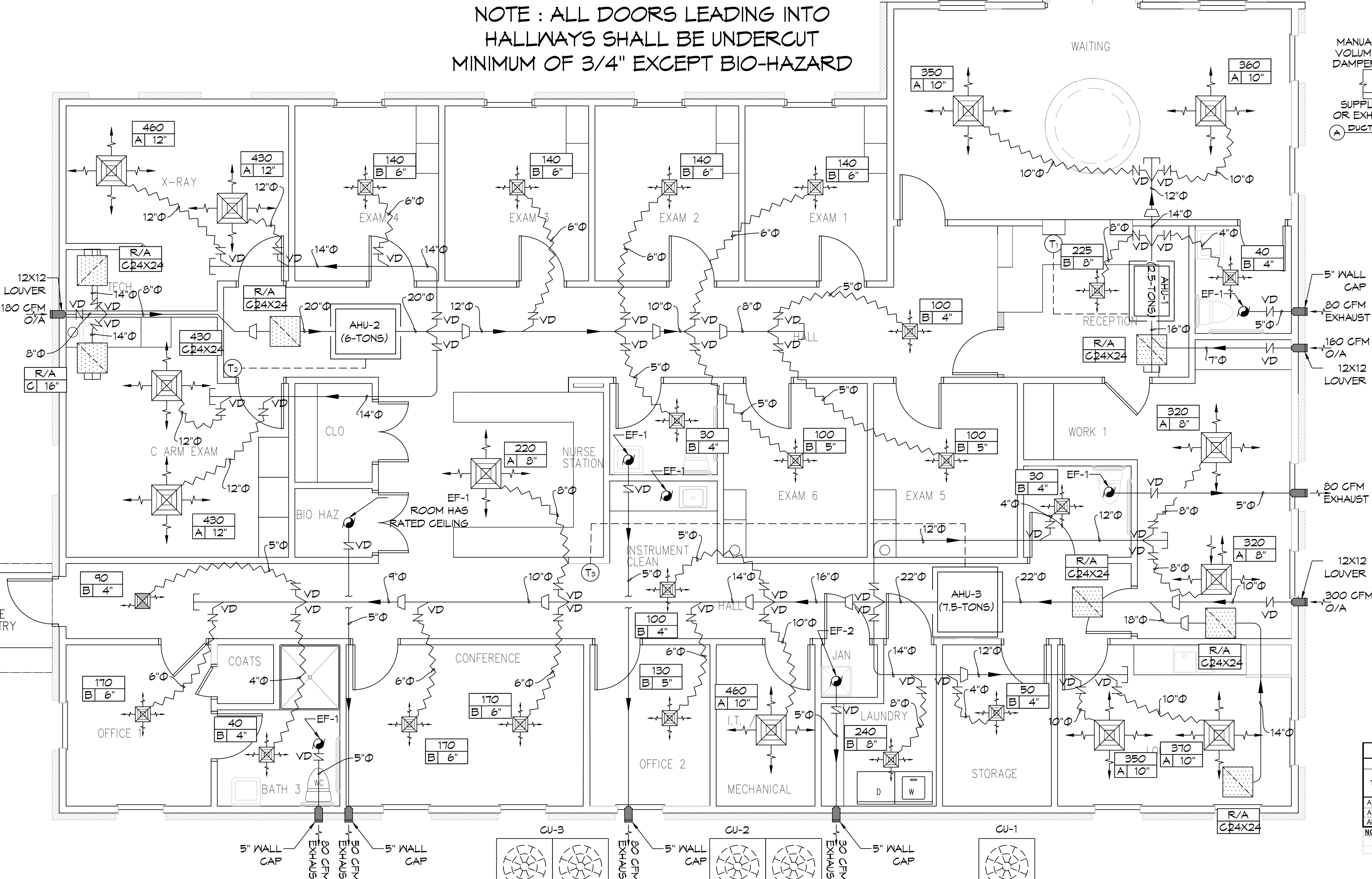


- ### GENERAL HYAC NOTES
- CONCEALED DUCTWORK TO BE GALVANIZED SHEET METAL WRAPPED WITH FIBROUS GLASS DUCT WRAP WITH FSK VAPOR BARRIER, MIN R-6. INSTALLED PER SMACNA STANDARDS. DUCT WORK IMMEDIATELY DOWNSTREAM FROM RTU SHALL BE LINED FOR SOUND ATTENUATION. FIBROUS DUCTBOARD IS ACCEPTABLE.
 - EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED PER SMACNA STANDARDS. FIBROUS DUCTBOARD IS ACCEPTABLE.
 - ROUND FLEXIBLE DUCT TO BE UL-181, CLASS 1, AIR DUCT MATERIALS.
 - DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
 - 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.
 - PROVIDE UL LISTED 125°F FIRE-RATED IN RETURN AIR OF EACH SYSTEM UNDER 2000 CFM TO SHUT DOWN THE FAN IN THE EVENT OF FIRE.
 - 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.
 - CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
 - ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOWS PER PLANS.
 - ALL THERMOSTATS TO BE AUTOMATIC CHANGEOVER WITH HEAT SWITCH.
 - EXHAUST FAN SHALL BE CONTROLLED BY A SWITCH ON THE WALL IN THE SAME LOCATION AS LIGHT SWITCH(S). PROVIDE BACK DRAFT DAMPER.
 - PROVIDE AND INSTALL WATER PROOF GRILLE VENT IN PROPER ROOF LOCATION FOR PLUMBING FIXTURE EXHAUST.
 - ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS AT THE REGISTER.
 - LOCATE OUTDOOR UNITS AS SHOWN ON ARCHITECTURAL DRAWINGS.
 - REFRIGERANT LINES SHALL BE SIZED BY UNIT MANUFACTURER AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
 - FRESH AIR SHALL BE SUPPLIED TO EACH AIR HANDLER THROUGH EXTERIOR WALL DUCT SUPPLIED WITH A CONTROL DAMPER.
 - 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-E814).
 - ALL MECHANICAL SYMBOLS ARE DRAWN DIASRAMMATICALLY. CONTRACTOR TO VERIFY WITH OWNER LOCATIONS OF VENTS, DAMPERS, REGISTERS, ETC.
 - FLEXIBLE DUCTWORK LENGTH NOT TO EXCEED 12'-0". SUPPORT FLEX DUCT TO PREVENT SAGGING.

- ### GENERAL HYAC NOTES
- REFER TO REFLECTED CEILING PLAN FOR FINAL GRILLE AND DIFFUSER LOCATIONS AND COORDINATE AS REQUIRED.
 - FINAL LOCATION OF TEMPERATURE CONTROLS TO BE COORDINATED WITH OWNER AT JOB SITE.
 - 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.
 - FRESH AIR INTAKES ARE REQUIRED TO HAVE MOTORIZED OR GRAVITY DAMPERS TO SHUT OFF WHEN SYSTEM IS NOT RUNNING.
 - PROVIDE BIRD SCREENS AT ALL EXTERIOR MECHANICAL PENETRATIONS.
 - COORDINATE WALL MOUNTED THERMOSTAT LOCATIONS WITH ALL OWNER FURNISHED ITEMS EITHER WALL MOUNTED OR FLOOR MOUNTED AGAINST PARTITIONS. REFER TO ARCHITECTURAL DRAWINGS.
 - PROVIDE MIN 10 GA GALVANIZED SHEET METAL TO BLANK-OFF GABLE VENTS WHERE INTAKE/EXHAUST DUCTS OCCUR.



NOTE: ALL DOORS LEADING INTO HALLWAYS SHALL BE UNDERCUT MINIMUM OF 3/4" EXCEPT BIO-HAZARD



TYPICAL DETAILS

EXHAUST FAN SCHEDULE

TAG	AIRFLOW (CFM)	SERVICE	POWER				MAKE / MODEL	REMARKS	
			TSP ("wc)	AMPS	WATTS	VAC PH HZ			
EF-1	80	Restroom	0.1	0.4	120	1	60	Broan A80	1
EF-2	30	Janitor Closet	0.2	0.9	120	1	60	Broan 696N	1

1. Install per Manufacturer's recommendations.

DIFFUSER SCHEDULE

TAG	SERVICE	NECK SIZE	DESCRIPTION	Remarks
A	Supply Air	Ref. Plan	24" x 24" Adjustable Square Cone Diffuser, Price ASCDA or equal w/ Insulated Back Panel	1, 2, 3
B	Supply Air	Ref. Plan	12" x 12" Adjustable Square Cone Diffuser, Price ASCDA or equal w/ Insulated Back Panel	1, 2, 3
C	Return Air	Ref. Plan	24" x 24" Louvered Face Filter Return Air Grille, Price 70 FH or equal w/ MERV 8 filter.	1, 2, 3
D	Return Air	Ref. Plan	12" x 12" Louvered Face Filter Return Air Grille, Price 70 FH or equal w/ MERV 8 filter.	1, 2, 3

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 meet or exceed R-6.

AIR HANDLER DX SPLIT SYSTEM SCHEDULE

TAG	MAKE	MODEL	NOMINAL TONS	TOTAL AIRFLOW (CFM)	O/A AIR (CFM)	ESP ("wc)	HEAT (KW)	POWER	CONDENSER			REMARKS						
									VAC	PH	MCA							
AHU-1	Trane	5TEMCB03A	2-1/2	975	180	0.4	3.6	208	1	27	CU-1	2-1/2	Trane	5TTR3030A	208	1	16	1, 2
AHU-2	Trane	TWE072K3A	6	2640	180	0.5	7.5	208	3	35	CU-2	6	Trane	TTA072K3A	208	3	31	1, 2
AHU-3	Trane	TWE090K3A	7-1/2	3230	300	0.5	7.5	208	3	35	CU-3	7-1/2	Trane	TTA090K3A	208	3	38	1, 2

Notes:
 1. Provide single point power connection, 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.

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

DATE	DESCRIPTION	REVISIONS
3/14/2022	1 Revised HVAC Placement	
4/9/2022	2 Added Exam Rooms 12 & 13	
7/17/2022	3 Revised Exam Rm's & X-Ray Layout	
10/04/2022	4 Balanced CFMs & moved casting room supply	

SEAL: [Professional Engineer Seal]

FINAL PRACTICE

KEVIN DARR, P.E.

ENRLL PLS/E
 MADEVILLE, LA
 JOB No: 2523 DATE: 3/17/2026
 DRAWN BY: C/KD CHECKED BY: C/KD

SHEET TITLE: MECHANICAL PLAN

DRAWING NUMBER: M101

SHEET No: 20 of 22