

GENERAL HVAC NOTES

1. CONCEALED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED PER SMACKA STANDARDS.
2. FIBROUS DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED PER SMACKA 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 DETECTOR SHALL BE INSTALLED IN EACH MAIN DUCT AND ALL IN THE RETURN DUCT DOWNSTREAM OF THE AIR HANDLING UNIT AND ALL FILTERS TO AUTOMATICALLY STOP THE FAN.
6. PROVIDE UL LISTED 125 °F FRESH AIR IN RETURN AIR OF EACH SYSTEM UNDER 2000 CFM TO SHUT DOWN THE FAN IN THE EVENT OF FIRE.
7. PENETRATIONS OF FIRE-RATED 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 FLOWERS P-TAP 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 CHANGED/OVER WITH HEAT SWITCH.
11. EXHAUST FAN SHALL BE CONTROLLED BY A SWITCH ON THE WALL IN THE SAME LOCATION AS LIGHT SWITCHES). PROVIDE BACK DRAFT DAMPER.
12. 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 INT 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 CALKED. (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).
18. ALL MECHANICAL SYMBOLS ARE DRAWN PARAMOUNTLY. 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 LOCATION AND DIFFUSER LOCATION AND COMPONENT 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 A.U.S. PLACE NEAR R/A AND S/A OPENINGS OF A/JU AND PROVIDE WITH ACCESS PANEL, MARKING BY ELECTRICAL CONTRACTOR.
23. FRESH AIR INTAKES ARE REQUIRED TO HAVE WINDSCREEN OR GRAVITY DAMPERS TO SHUT OFF WHEN SYSTEM IS NOT RUNNING.
24. PROVIDE BRD SCREENS AT ALL EXTERIOR MECHANICAL PENETRATIONS.
25. CONDENSATE WALL MOUNTED THERMOSTAT LOCATIONS WITH ALL OWNER FINISHED ITEMS EITHER WALL MOUNTED OR FLOOR MOUNTED AGAINST PARTITIONS. REFER TO ARCHITECTURAL DRAWINGS.
26. SEE ROOF PLAN FOR ALL ROOF PENETRATIONS.
27. PROVIDE VIN 18 GA GALVANIZED SHEET METAL TO BLANK-OFF GABLE VENTS WHERE IN TAKE EXHAUST DUCT'S OCCUR.

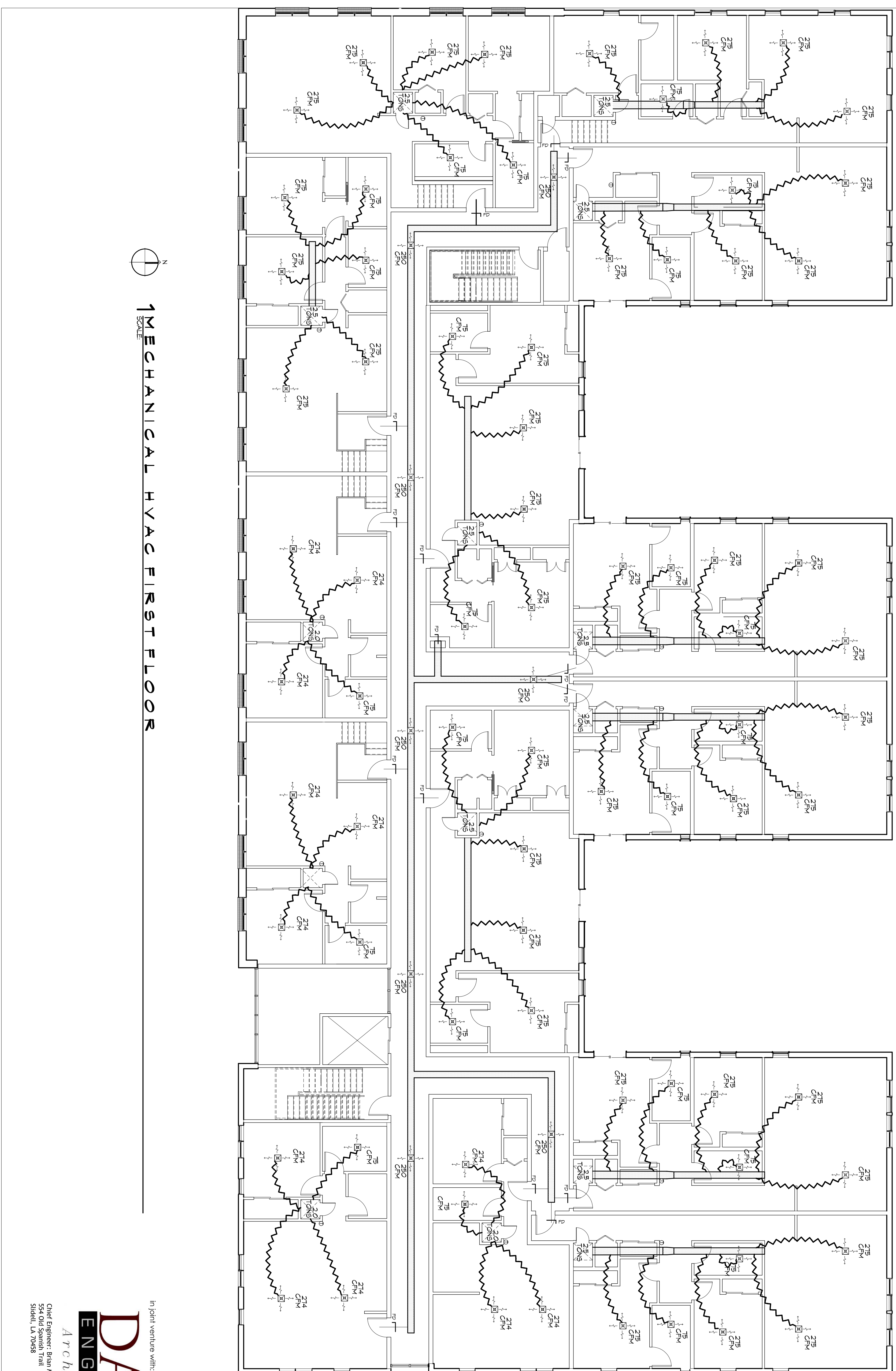
LEGEND

- ① THERMOSTAT
- SUPPLY AIR GRILLE
- FD WITH FIRE DAMPER
- FD WITH FRESH AIR SUPPLY
- SUPPLY AIR DUCT

SOUND FLEX DUCT, MAX. LENGTH 12'-0", MIN. R-6. PROVIDE MANUAL DAMPER AT DIFFUSER CONNECTIONS:
 20 TON CONDENSER MODEL # CBX25H-Q20
 ROOM TO ROOM = 8"
 ROOM TO ROOF = 8"
 ROOM TO EXHAUST = 8"
 ROOM TO 150CFM = 6"

A/C UNIT SCHEDULE

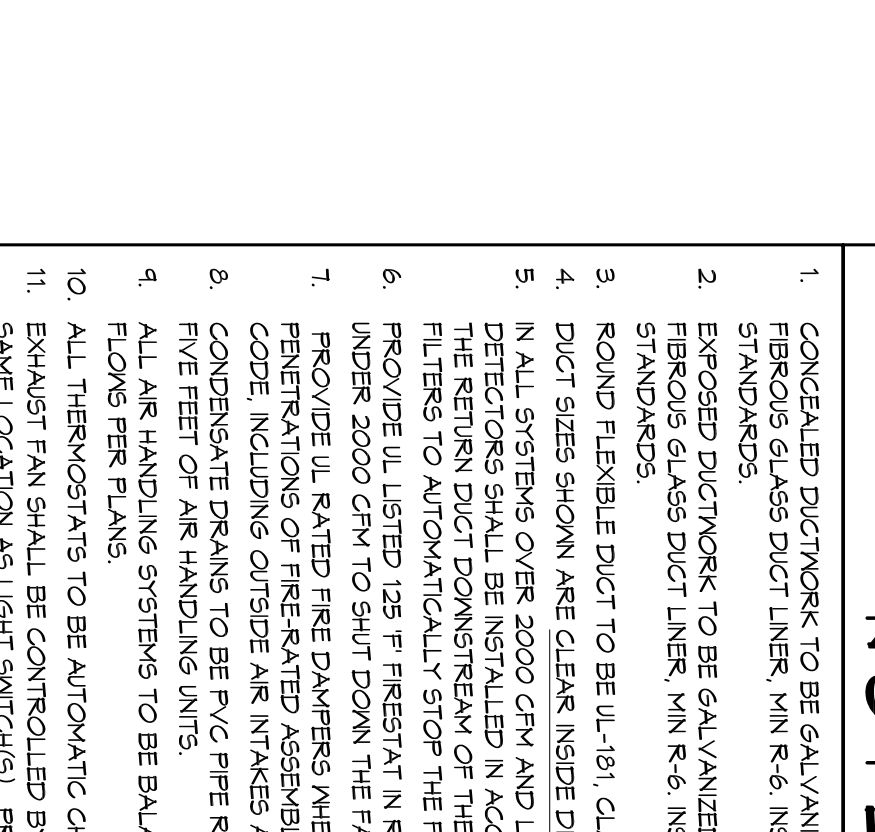
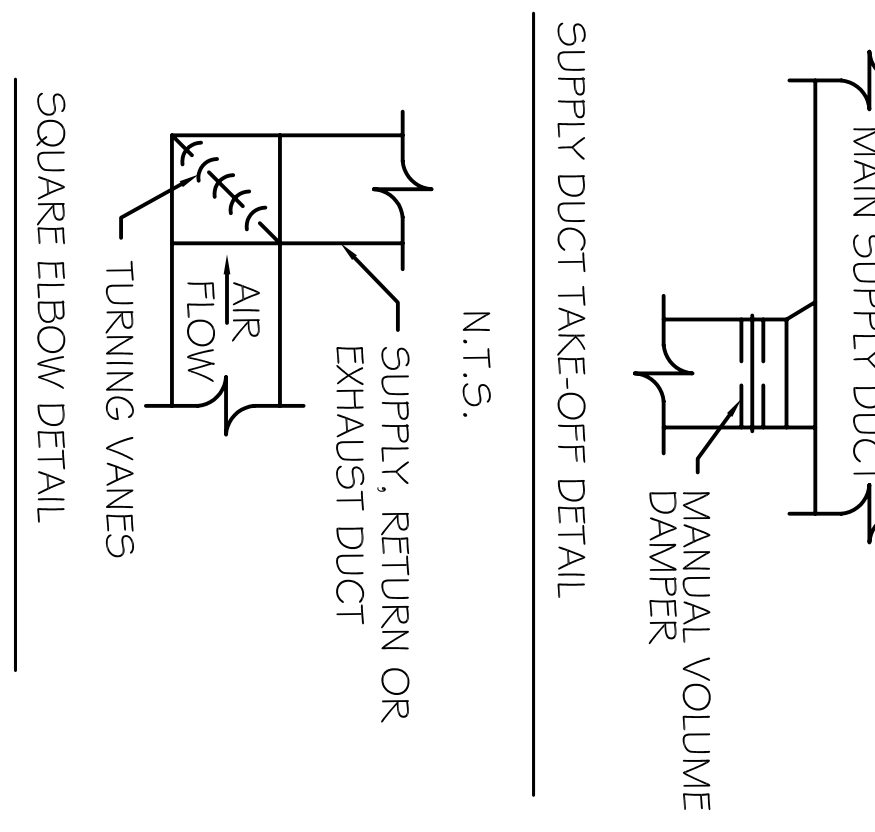
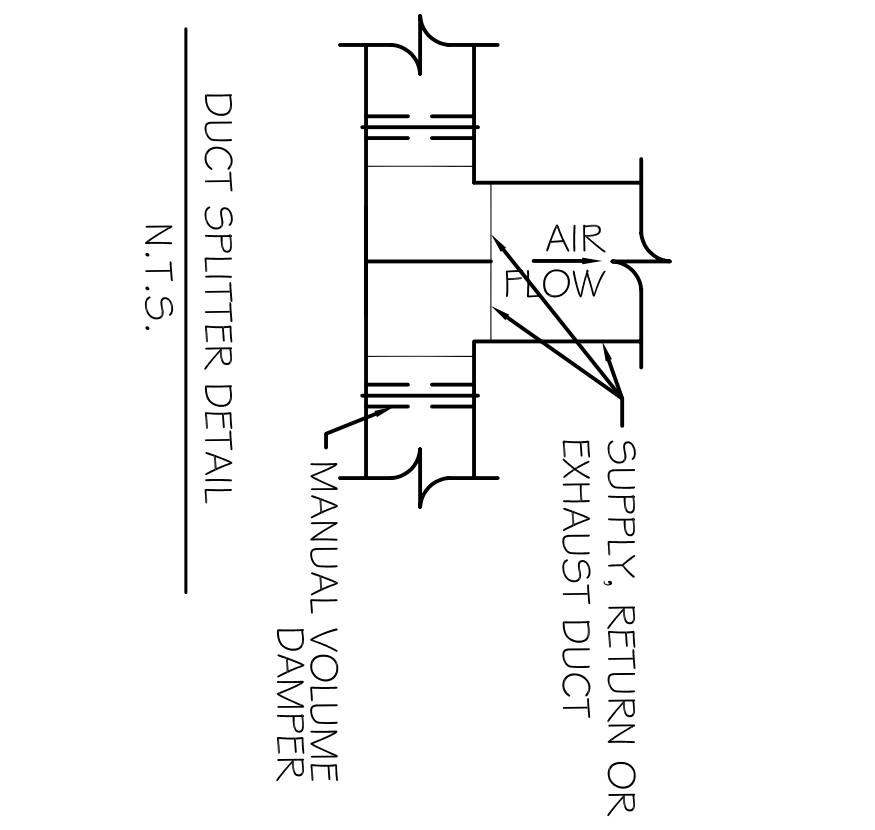
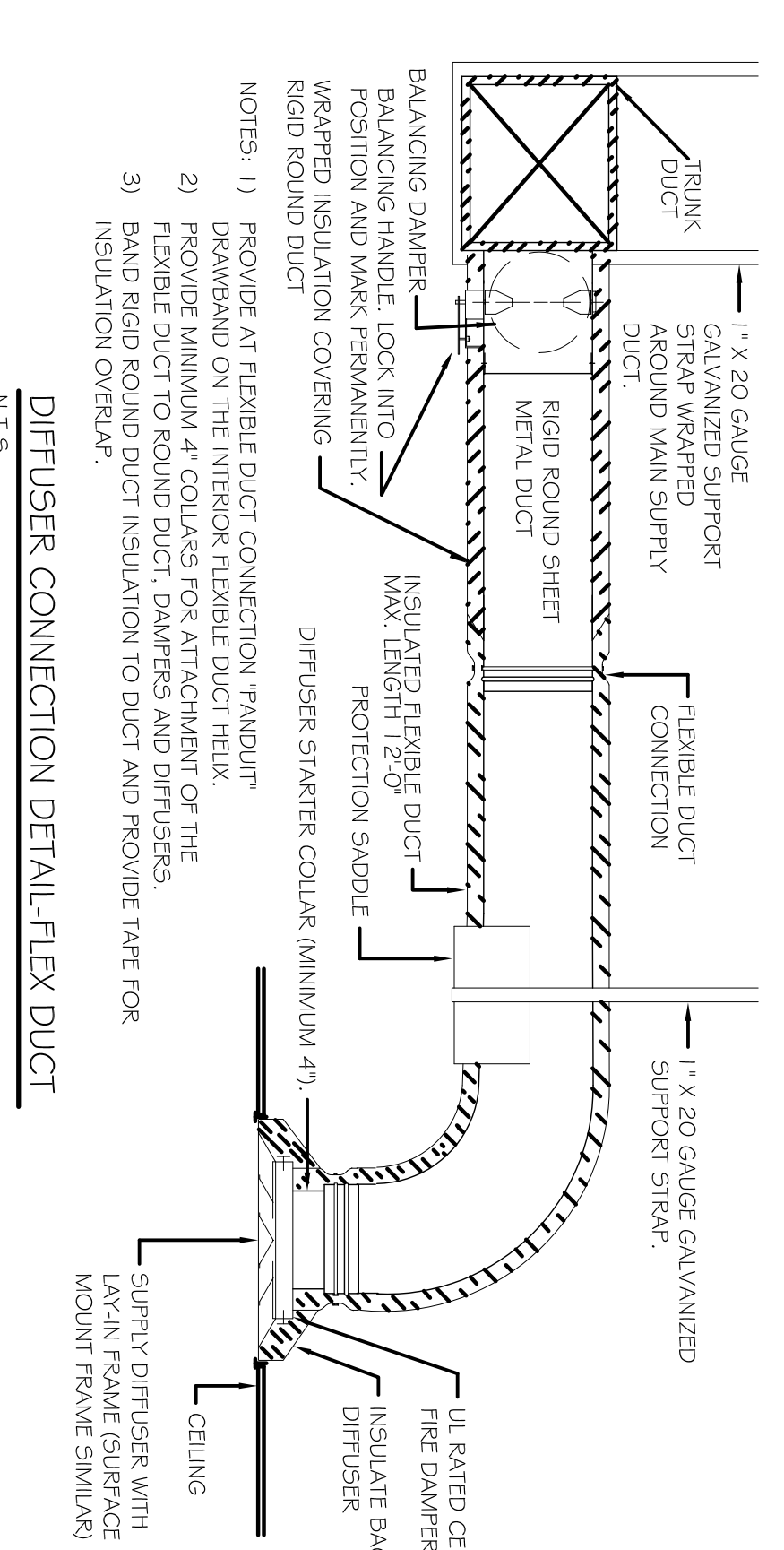
NO.	TOTAL CFM	C.O.A. HEAT LOAD	ELECTRICAL LOAD	COMMENTS
1	30,000	250	15 KW	LENNOX
2	24,000	241	84	5 KW
3	24,000	241	84	5 KW
4	24,000	241	84	5 KW
5	24,000	241	84	5 KW
6	24,000	241	84	5 KW
7	24,000	241	84	5 KW
8	24,000	241	84	5 KW
9	24,000	241	84	5 KW
10	24,000	241	84	5 KW
11	24,000	241	84	5 KW
12	24,000	241	84	5 KW
13	24,000	241	84	5 KW
14	24,000	241	84	5 KW
15	24,000	241	84	5 KW
16	24,000	241	84	5 KW
17	24,000	241	84	5 KW
18	24,000	241	84	5 KW
19	24,000	241	84	5 KW
20	24,000	241	84	5 KW
21	24,000	241	84	5 KW
22	24,000	241	84	5 KW
23	24,000	241	84	5 KW
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25	24,000	241	84	5 KW
26	24,000	241	84	5 KW
27	24,000	241	84	5 KW
28	24,000	241	84	5 KW
29	24,000	241	84	5 KW
30	24,000	241	84	5 KW
31	24,000	241	84	5 KW
32	24,000	241	84	5 KW
33	24,000	241	84	5 KW
34	24,000	241	84	5 KW
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36	24,000	241	84	5 KW
37	24,000	241	84	5 KW
38	24,000	241	84	5 KW
39	24,000	241	84	5 KW
40	24,000	241	84	5 KW
41	24,000	241	84	5 KW
42	24,000	241	84	5 KW
43	24,000	241	84	5 KW
44	24,000	241	84	5 KW
45	24,000	241	84	5 KW
46	24,000	241	84	5 KW
47	24,000	241	84	5 KW
48	24,000	241	84	5 KW
49	24,000	241	84	5 KW
50	24,000	241	84	5 KW



MECHANICAL HVAC FIRST FLOOR



SCALE



Joint Venture with:

DAMMON ENGINEERING, INC.

Architects & Engineers

Chief Engineer: Brian Mitchel, PE
 554 Old Spanish Trail
 Shreveport, LA 70458

www.dammonengineering.com
 info@dammonengineering.com
 PH: 985.649.5832
 F: 985.641.5950

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1581 MAGAZINE STREET
 New Orleans, Louisiana 70130

architecture + planning + interiors
 111 Poydras Street
 New Orleans, LA 70112
 504.593.9074 tel
 www.studio2to.com

Drawn By:
 Author:
 Sheet:
 Comments:

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