

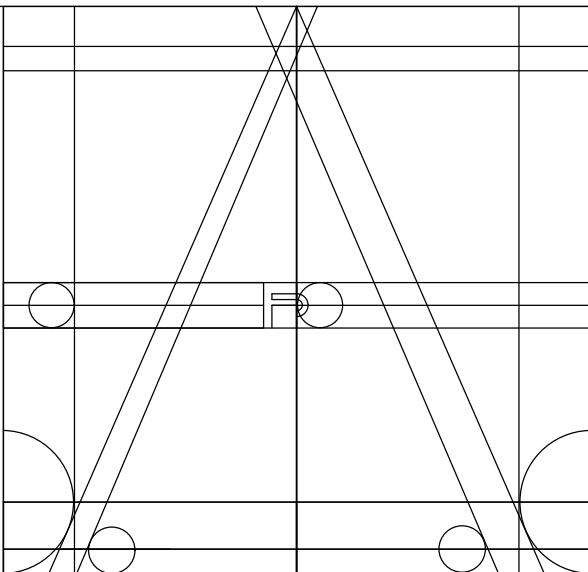
| GENERAL SPECIFICATIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.                     | ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED AND COMPLETED IN FIRST CLASS WORKMANLIKE MANNER. ANY MATERIALS INSTALLED, WHICH SHALL NOT PRESENT AN ORDERLY AND REASONABLY NEAT OR WORKMANLIKE APPEARANCE, SHALL BE REMOVED AND REPLACED WHEN SO DIRECTED BY THE ARCHITECT/ENGINEER AT THE CONTRACTOR'S EXPENCE.                                                                                                                                                       |
| 2.                     | NEW DUCTWORK SHOWN IS SCHEMATIC. PLAN ROUTING OF DUCTWORK AND COORDINATE LOCATION OF DUCTS AFTER INSPECTION OF EXISTING CONDITIONS AND BEFORE FABRICATION. SLIGHT VARIATION OF ROUTING AND/OR CONSTRUCTION SHOULD BE ANTICIPATED AND IS EXPRESSLY INCLUDED AS PART OF THE WORK WHENEVER REQUIRED, AT NO ADDITIONAL COST TO OWNER. IGNORANCE ON THE PART OF THE CONTRACTOR WILL IN NO WAY EXCUSE HIM OR SHE FROM THE OBLIGATIONS AND RESPONSIBILITIES OF THIS CONTRACT. |
| 3.                     | ANY CONFLICTS OR DISCREPANCIES ON THESE DRAWINGS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT/ENGINEER DURING THE BIDDING PERIOD FOR RESOLUTION. OTHERWISE, ALL SUCH CONFLICTS OR DISCREPANCIES SHALL BE RESOLVED AT THE CONTRACTOR'S EXPENSE.                                                                                                                                                                                                                    |
| 4.                     | ALL CONTROL WIRING SHALL BE PROVIDED BY THE CONTRACTOR.                                                                                                                                                                                                                                                                                                                                                                                                                |
| 5.                     | THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION WITH ALL OTHER TRADES FOR CLEARANCES AND USE OF AVAILABLE SPACE.                                                                                                                                                                                                                                                                                                                                              |
| 6.                     | THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS, FEES, INSPECTIONS AND TEST.                                                                                                                                                                                                                                                                                                                                                              |
| 7.                     | THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE INSTALLATION OF A COMPLETE MECHANICAL SYSTEM, READY FOR CONTINUOUS AND SATISFACTORY OPERATION BY THE OWNER.                                                                                                                                                                                                                                                                |
| 8.                     | THE ENTIRE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, INCLUDING ALL LOCAL RULES AND ORDINANCES.                                                                                                                                                                                                                                                                                                                                    |
| 9.                     | PROVIDE MANUAL VOLUME DAMPERS AT ALL DUCT TAKE-OFFS AND DIFFUSERS. DAMPERS SHALL BE MANUFACTURED ACCORDING TO SMACNA "HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE" FIRST EDITION AND SHALL HAVE LOCKING QUADRANT WITH WING NUT.                                                                                                                                                                                                                                |
| 10.                    | DUCTWORK MATERIAL<br>SUPPLY AIR DUCTWORK SHALL BE CONSTRUCTED OF FIVE POUNDS DENSITY 1-1/2" THICK GLASSFIBER DESIGNED, CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SMACNA'S LOW PRESURE DUCT MANUAL. ALL DUCT JOINTS SHALL BE SEALED AND TAPED.                                                                                                                                                                                                                       |
| 11.                    | ALL EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL, INSTALLED IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE" FIRST EDITION.                                                                                                                                                                                                                                                                                          |
| 12.                    | FLEXIBLE DUCTS SHALL BE UL LISTED CLASS 1 AIR DUCT. THERMAFLEX TYPE M-KE OR EQUAL. DUCTS SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE" FIRST EDITION.                                                                                                                                                                                                                                                             |
| 13.                    | DUCTWORK DIMENSIONS INDICATED, ARE INSIDE CLEAR AIR PASSAGE. ALL EQUIPMENT AND MATERIAL SHALL BE VARRENTIED FOR ONE YEAR AFTER DATE OF ACCEPTANCE BY THE OWNER.                                                                                                                                                                                                                                                                                                        |
| 14.                    | AIR DISTRIBUTION DEVICES SHALL BE OF ALL ALUMINUM CONSTRUCTION WITH TYPE #25 FINISH. ALL DIFFUSERS, REGISTERS AND GRILLS SHALL HAVE OPPOSED BLADE DAMPERS IN THROAT OR NECK. MANUFACTURER SHALL BE METALAIR OR PRE-APPROVED EQUAL.                                                                                                                                                                                                                                     |
| 15.                    | REFRIGERANT LINES SHALL BE TYPE "L" SOFT DRAWIN, COPPER TUBING DEHYDRATED FOR REFRIGERANT USE. SIZE SHALL BE SHOWN ON DRAWINGS DR AS PER MANUFACTURERS RECOMMENDATION.                                                                                                                                                                                                                                                                                                 |
| 16.                    | REFRIGERANT LINE INSULATION SHALL BE 1" FOAM PLASTIC INSULATION (R-4), FIRE RETARDENT TYPE. SEAL JOINTS WITH MANUFACTURERES APPROVED ADHESIVE. INSULATION SHALL HAVE A EXTERNAL PERMEANCE NOT EXCEEDING 0.05 PERM WHEN TESTED.                                                                                                                                                                                                                                         |
| 17.                    | THE INSIDE OF ALL VISIBLE DIFFUSERS SHALL BE PAINTED BLACK.                                                                                                                                                                                                                                                                                                                                                                                                            |
| 18.                    | A/C/ CONTRACTOR TO INCLUDE 1 YEAR MAINTENANCE OF THE SYSTEM.                                                                                                                                                                                                                                                                                                                                                                                                           |
| 19.                    | DRYER EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL. MINIMUM DUCT THICKNESS OF .0016 INCHES (26 GAGE), INSTALLED IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE" FIRST EDITION.                                                                                                                                                                                                                                      |
| 20.                    | PROVIDE BACKDRAFT DAMPERS AT ALL EXHAUST DUCTWORK.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 21.                    | CONDENSATE RISERS SHALL BE CONSTRUCTED OF SCHEDULE 40 PVC. CONDENSATE LINES INSIDE OF AC CLOSET SHALL BE CONSTRUCTED OF TYPE "L" COPPER                                                                                                                                                                                                                                                                                                                                |
| 22.                    | THE CONTRACTOR SHALL CAREFULLY REVIEW AND VERIFY THE MECHANICAL DRAWINGS AND SPECIFICATIONS IN ADDITION TO OTHER RELATED TRADES AND SECTIONS. SHOULD ANY DISCREPANCIES BE FOUND THE ARCHITECT/ENGINEER MUST BE NOTIFIED. THIS COORDINATION SHALL BE DONE PRIOR TO SUBMITTING THE BID.                                                                                                                                                                                  |

| DOUBLE LINE                                                                 | A/C SYMBOL LEGEND                                                    | SINGLE LINE |
|-----------------------------------------------------------------------------|----------------------------------------------------------------------|-------------|
|                                                                             | DUCT (1ST. DIMENSION, SIDE SHOWN;<br>2ND. DIMENSION, SIDE NOT SHOWN) |             |
|                                                                             | ACOUSTICAL LINING<br>(DUCT DIMENSIONS FOR NET FREE AREA)             |             |
|                                                                             | DIRECTION OF FLOW                                                    |             |
|                                                                             | DUCT SECTION<br>UP OR DOWN (SUPPLY)                                  |             |
|                                                                             | DUCT SECTION<br>UP OR DOWN (EXHAUST OR RETURN)                       |             |
|                                                                             | INCLINE RISE (R) OR DROP (D) ARROW<br>IN DIRECTION OF AIR FLOW.      |             |
|                                                                             | TRANSITIONS                                                          |             |
|                                                                             | STANDARD BRANCH FOR SUPPLY & RETURN<br>(NO SPLITTER)                 |             |
|                                                                             | SPLITTER DAMPER                                                      |             |
|                                                                             | VOLUME DAMPER<br>(MANUAL OPERATION)                                  |             |
|                                                                             | AUTOMATIC DAMPERS<br>(MOTOR OPERATED)                                |             |
|                                                                             | ACCESS DOOR (AD)<br>ACCESS PANEL (AP)                                |             |
|                                                                             | FIRE DAMPER<br>IN VERTICAL DUCT / IN HORIZONTAL DUCT                 |             |
|                                                                             | SMOKE DAMPER & RADIANT DAMPER                                        |             |
|                                                                             | DYNAMIC<br>MOTORIZED DAMPER                                          |             |
|                                                                             | BACK DRAFT DAMPER                                                    |             |
|                                                                             | CEILING DIFFUSER, SQUARE                                             |             |
|                                                                             | CEILING DIFFUSER, RECTANGULAR                                        |             |
|                                                                             | CEILING DIFFUSER, ROUND                                              |             |
|                                                                             | SMOKE DETECTOR, DUCT MOUNTED                                         |             |
|                                                                             | EXHAUST FAN, CEILING MOUNTED                                         |             |
|                                                                             | RETURN AIR GRILLE, CEILING MOUNTED                                   |             |
|                                                                             | THERMOSTAT                                                           |             |
|                                                                             | HUMIDISTAT                                                           |             |
|                                                                             | CO <sup>2</sup> CENSOR                                               |             |
|                                                                             | CENTRIFUGAL EXHAUST FAN<br>ROOF MOUNTED                              |             |
|                                                                             | EF-X                                                                 | EF-X        |
| NOTE : THESE ARE STANDARD SYMBOLS AND MAY NOT ALL APPEAR ON PROJECT DRAWNGS |                                                                      |             |

| HVAC DESIGN REQUIRES:                     | YES | NO                                  |
|-------------------------------------------|-----|-------------------------------------|
| DUCT SMOKE DETECTOR                       |     | <input checked="" type="checkbox"/> |
| FIRE DAMPER(S)                            |     | <input checked="" type="checkbox"/> |
| SMOKE DAMPER(S)                           |     | <input checked="" type="checkbox"/> |
| FIRE RATED ENCLOSURE                      |     | <input checked="" type="checkbox"/> |
| FIRE RATED ROOF/FLOOR<br>CEILING ASSEMBLY |     | <input checked="" type="checkbox"/> |
| FIRE STOPPING                             |     | <input checked="" type="checkbox"/> |
| SMOKE CONTROL                             |     | <input checked="" type="checkbox"/> |

| AIR DISTRIBUTION SCHEDULE                                                                                                          |        |                                              |             |             |     |                        |
|------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------------------------|-------------|-------------|-----|------------------------|
| SYM                                                                                                                                | USE    | TYPE                                         | ACCESSORIES | NECK SIZE   | CFM | MFR. & MODEL NO        |
| A                                                                                                                                  | SUPPLY | 2-1" SLOT<br>LINEAR DIFFUSER<br>4'-0" ACTIVE | OBD         | SEE DRAWING |     | METAL AIRE<br>6610     |
| B                                                                                                                                  | SUPPLY | 2-1" SLOT<br>LINEAR DIFFUSER<br>3'-0" ACTIVE | OBD         | SEE DRAWING |     | METAL AIRE<br>6610     |
| C                                                                                                                                  | SUPPLY | 1-1" SLOT<br>LINEAR DIFFUSER<br>2'-0" ACTIVE | OBD         | SEE DRAWING |     | METAL AIRE<br>6610     |
| D                                                                                                                                  | RETURN | 3-1" SLOT<br>LINEAR DIFFUSER<br>5'-0" ACTIVE | OBD         | SEE DRAWING |     | METAL AIR<br>6610-11-1 |
| E                                                                                                                                  | RETURN | 2-1" SLOT<br>LINEAR DIFFUSER<br>4'-0" ACTIVE | OBD         | SEE DRAWING |     | METAL AIR<br>6610-11-1 |
| F                                                                                                                                  | RETURN | 3-1" SLOT<br>LINEAR DIFFUSER<br>4'-0" ACTIVE | OBD         | SEE DRAWING |     | METAL AIR<br>6610-11-1 |
| NOTES:<br>1. CONTRACTOR TO PROVIDE ROUND TO SQUARE NECK TRANSITION.<br>2. CONTRACTOR SHALL COORDINATE ALL DIFFUSERS WITH CEILINGS. |        |                                              |             |             |     |                        |

| WATER SOURCE HEAT PUMP                                                                                                                     |               |  |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------|--|
| AC NUMBER                                                                                                                                  | AC-1          |  |
| MANUFACTURER                                                                                                                               | CLIMATEMASTER |  |
| MODEL NUMBER                                                                                                                               | SZ-042        |  |
| TOTAL CFM                                                                                                                                  | 1400          |  |
| OUTSIDE AIR CFM                                                                                                                            | -             |  |
| TOTAL/SENS. CAPACITY                                                                                                                       | 43.9/31.9     |  |
| FAN MOTOR HP/FLA                                                                                                                           | -/5.9         |  |
| VOLTS/PH/Hz:                                                                                                                               | 208/1/60      |  |
| FILTERS                                                                                                                                    | 1"            |  |
| COMPRESSOR QTY/RLA/LRA                                                                                                                     | 1/18.2/106    |  |
| MCA/MOCP                                                                                                                                   | 28.7/45.0     |  |
| EER                                                                                                                                        | 14.3          |  |
| UNIT WEIGHT (LBS)                                                                                                                          | 218           |  |
| GPM                                                                                                                                        | 10.5          |  |
| PRESS. DROPE                                                                                                                               | 6.0 PSI       |  |
| HEATING                                                                                                                                    | 52.1 MBH      |  |
| UNIT MTD. ELEC. HEAT CAP                                                                                                                   | -             |  |
| ELEC. CHAR.                                                                                                                                | V/Ø/-         |  |
| MODEL NUMBER                                                                                                                               | -             |  |
| NOTE:<br>1. PROVIDE PROGRAMMABLE THERMOSTAT/HUMIDISTAT<br>MANUFACTURER NEST, AND SHOULD BE 48" A.F.F.<br>2. PROVIDE DUAL STAGE COMPRESSOR. |               |  |



ANA STUDIO ARCHITECTURE, PC  
ANA RESKREIS, RA  
280 RIVERSIDE DRIVE (8th), NEW YORK, N.Y. 10025  
+1 212 644 3410 +1 212 644 30 24 83  
ANASTUDIO2015@GMAIL.COM  
WWW.FRENCHDBS.COM

WEXLER RESIDENCE  
300 SOUTHPOINTE DR.  
4204

MIAMI BEACH, FL.  
33139

NOTES

| No. | Date | Description |
|-----|------|-------------|
|     |      |             |
|     |      |             |
|     |      |             |
|     |      |             |
|     |      |             |
|     |      |             |

TITLE

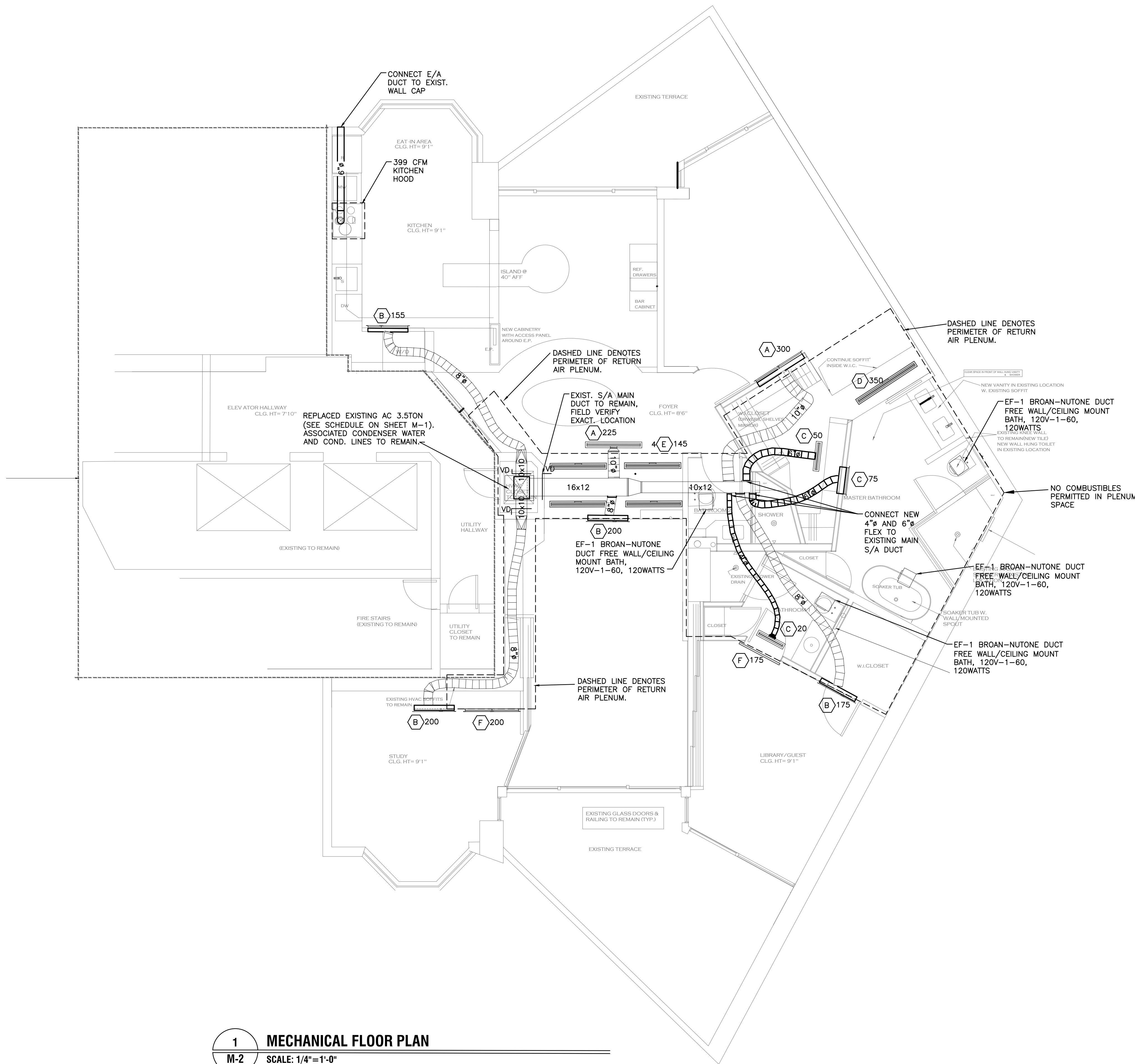
|                   |                  |
|-------------------|------------------|
| SEAL & SIGNATURE: | DATE: 12.12.2023 |
|                   | PROJECT No:      |
|                   | DRAWN BY:        |
|                   | CHECKED BY:      |
|                   | DWG No:          |

Fine Line Engineers Inc.  
Electrical, Mechanical, Plumbing  
Fire Protection, Construction Administration  
2080 W. 76TH STREET Hialeah, FL 33016  
Voice: 786.953-4901 - Fax: 786.953-4907  
E-mail: cef@fineengineers.com  
GEORGE FREJO, P.E.  
REGISTERED ENGINEER NO. 33278  
STATE OF FLORIDA - CAP: 29796

M-1

PAGE: 01

SPACE FOR SVC-BYCAN STICKER



1  
M-2  
MECHANICAL FLOOR PLAN  
SCALE: 1/4"=1'-0"

Fine Line Engineers Inc.  
Electrical, Mechanical, Plumbing  
Fire Protection, Construction Administration  
20885 W. 76TH STREET Hialeah, FL 33016  
Voice: 786.933-4901 • Fax: 786.933-4907  
E-mail: cefin@fineengineers.com  
GEORGE FREJO, P.E.  
REGISTERED ENGINEER NO. 35578  
STATE OF FLORIDA C.E.P. 29796

ANA STUDIO ARCHITECTURE, PC  
ANA R.ESKREIS,RA  
280 RIVERSIDE DRIVE, 9th FLOOR, NEW YORK, N.Y. 10025  
+1 212 661 5416 +33 (0) 43 86 24 53  
ANASTUDIO2013@GMAIL.COM  
WWW.FRENCHIDBS.COM

WEXLER RESIDENCE  
300 SOUTHPOINTE DR.  
4204

MIAMI BEACH, FL.  
33139

NOTES

| No. | Date | Description |
|-----|------|-------------|
|     |      |             |
|     |      |             |
|     |      |             |
|     |      |             |
|     |      |             |

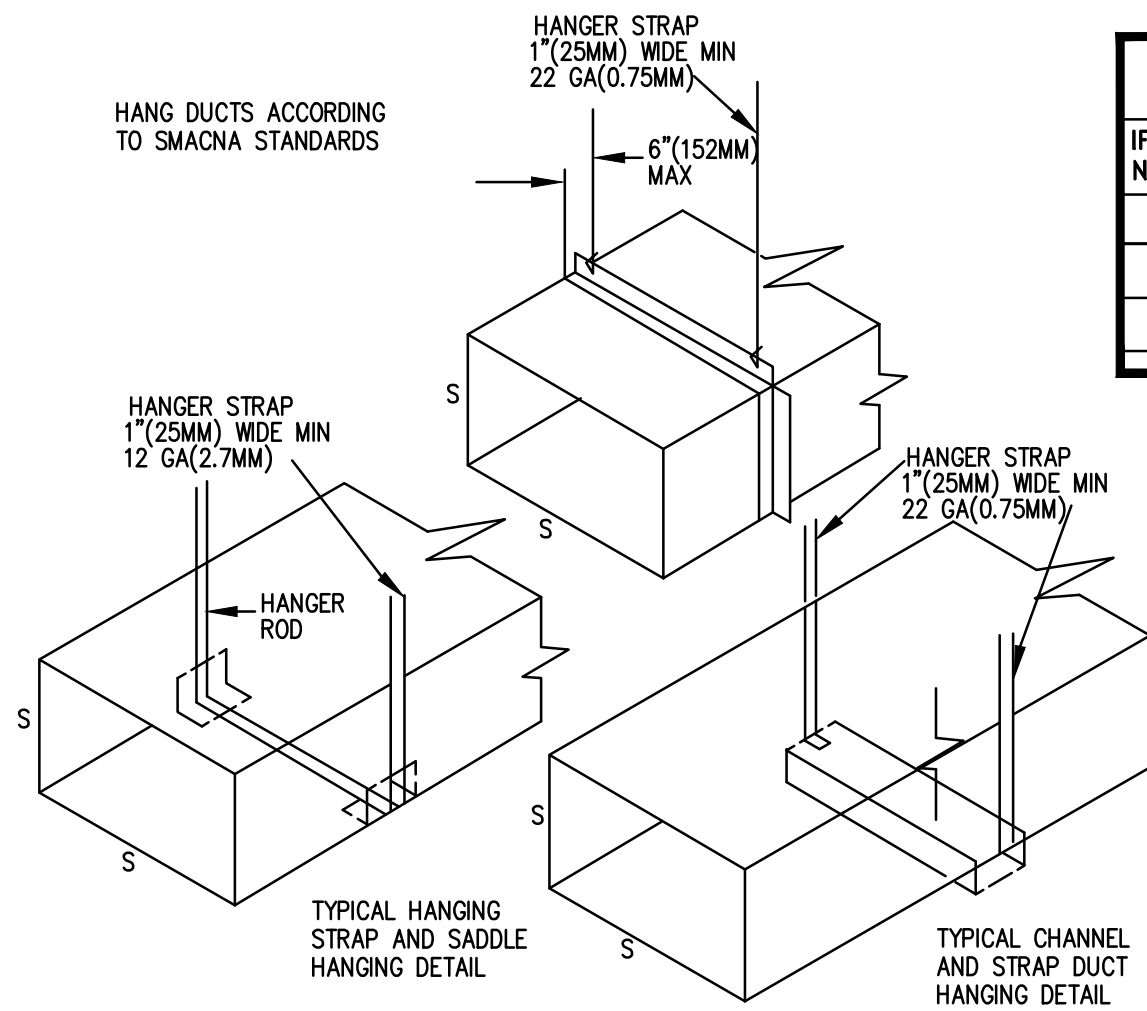
TITLE

|                  |                  |
|------------------|------------------|
| SEAL & SIGNATURE | DATE: 12/12/2023 |
|                  | PROJECT No.      |
|                  | DRAWN BY:        |
|                  | CHECKED BY:      |
| DWG No.          |                  |

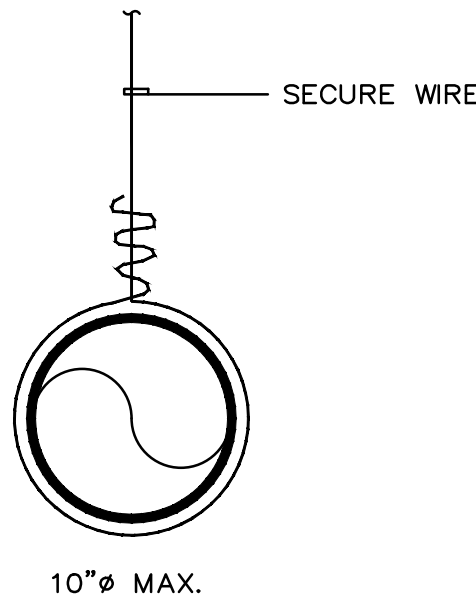
M-2

PAGE OF

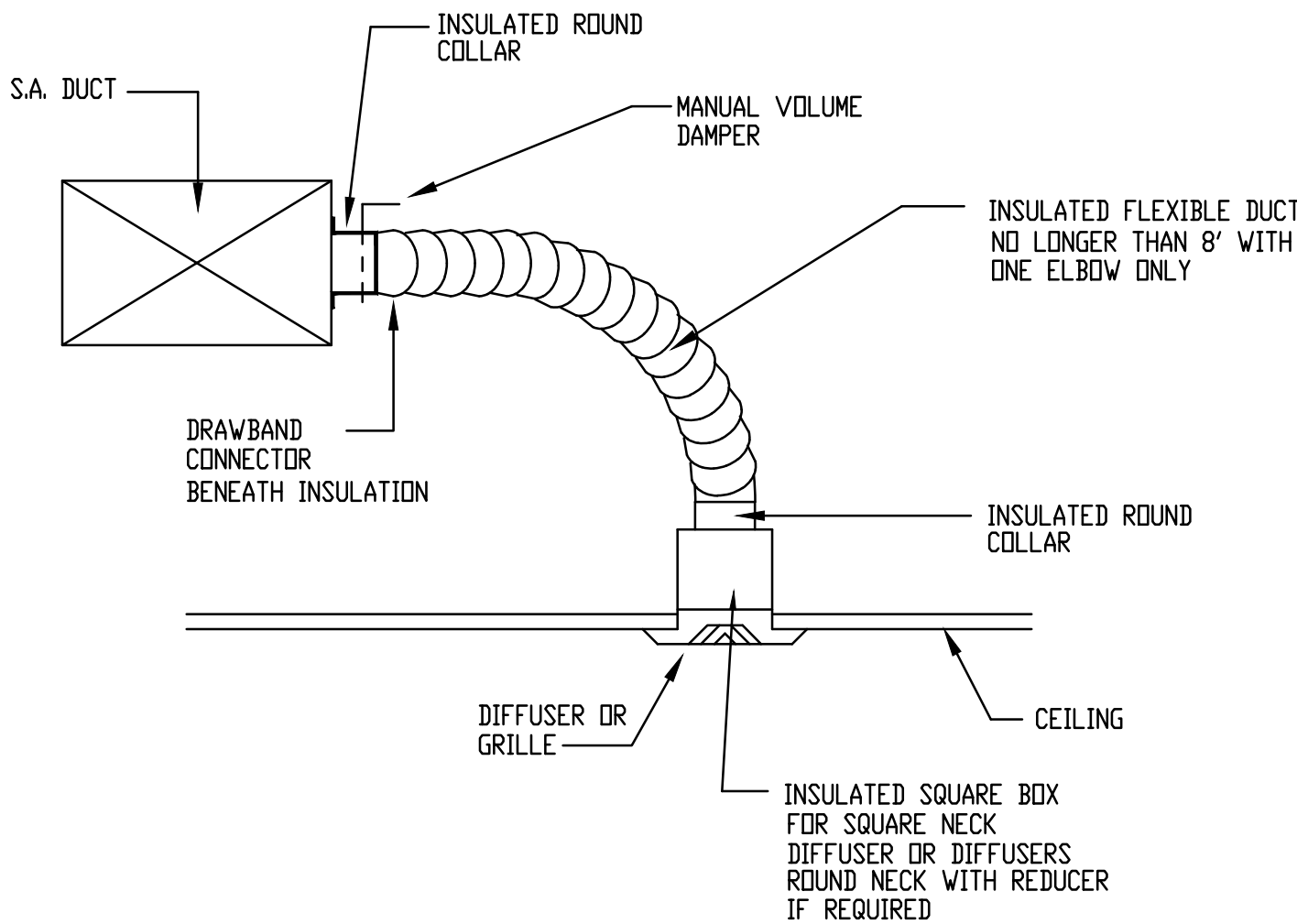
SPACE FOR NYC-BEAM STICKER



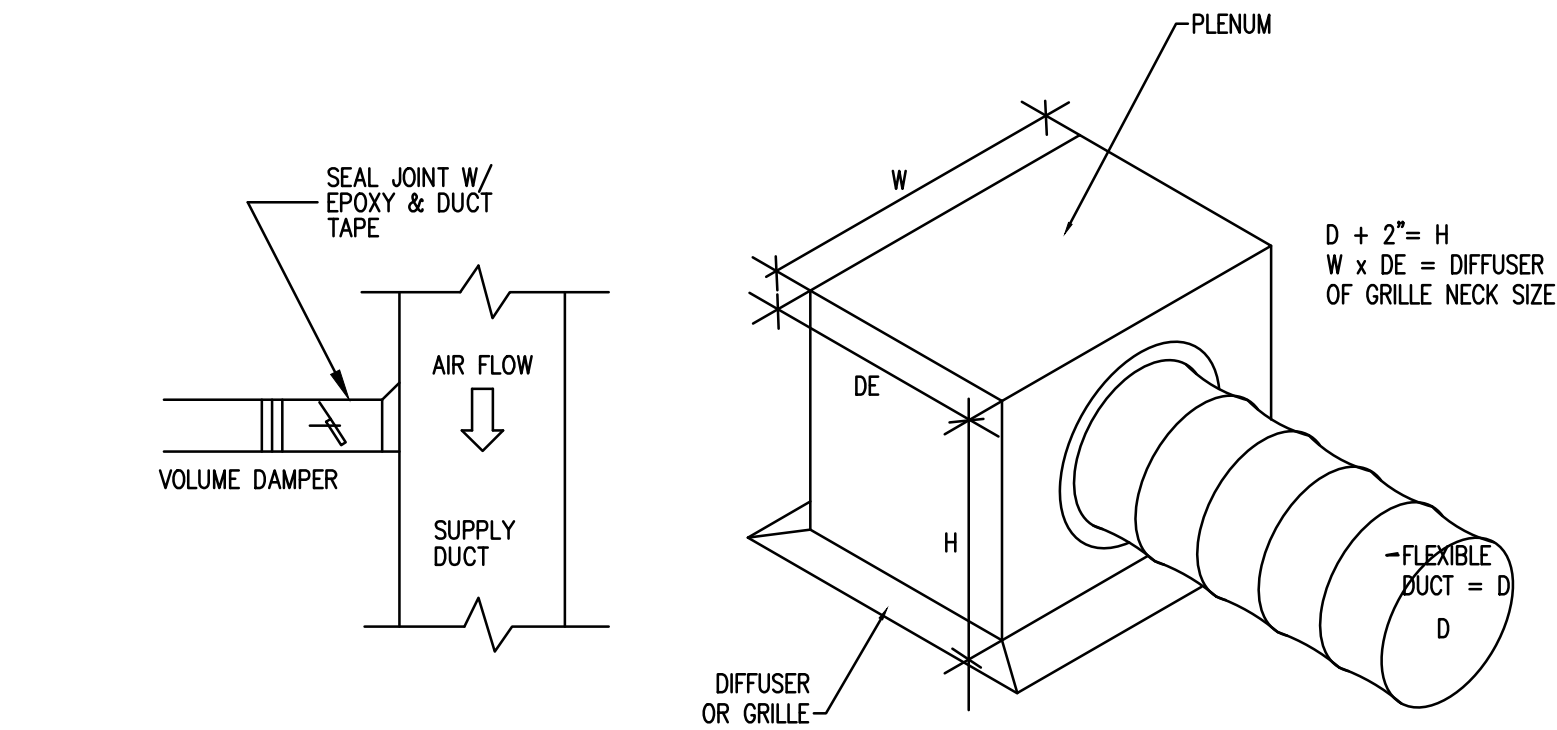
| CHANEL SELECTION                       |                      |                         |
|----------------------------------------|----------------------|-------------------------|
| IF TOTAL EXTENSION IS NOT GREATER THAN | MINIMUM CHANNEL GAGE | MINIMUM CHANNEL PROFILE |
| 6\"(152MM)                             | 24                   | 3" X 1.5" (75MM X 38mm) |
| 18\"(457MM)                            | 22                   | 3" X 2" (75MM X 50mm)   |
| 30\"(762MM)                            | 18                   | 3" X 2" (75MM X 50mm)   |



METHODS OF HANGING  
N.T.S.

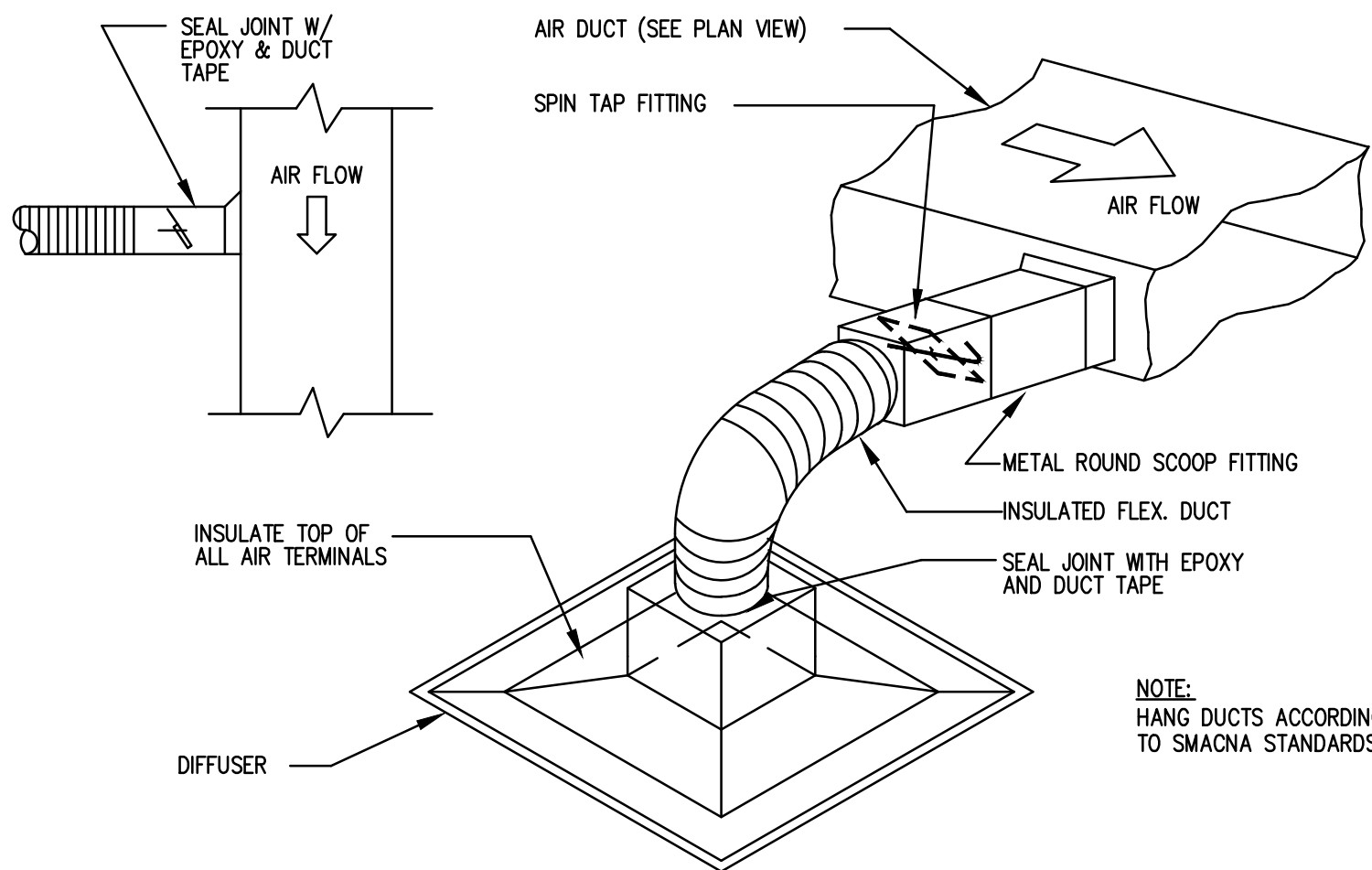


TYPICAL CONNECTION TO AIR DIFFUSER  
N.T.S.

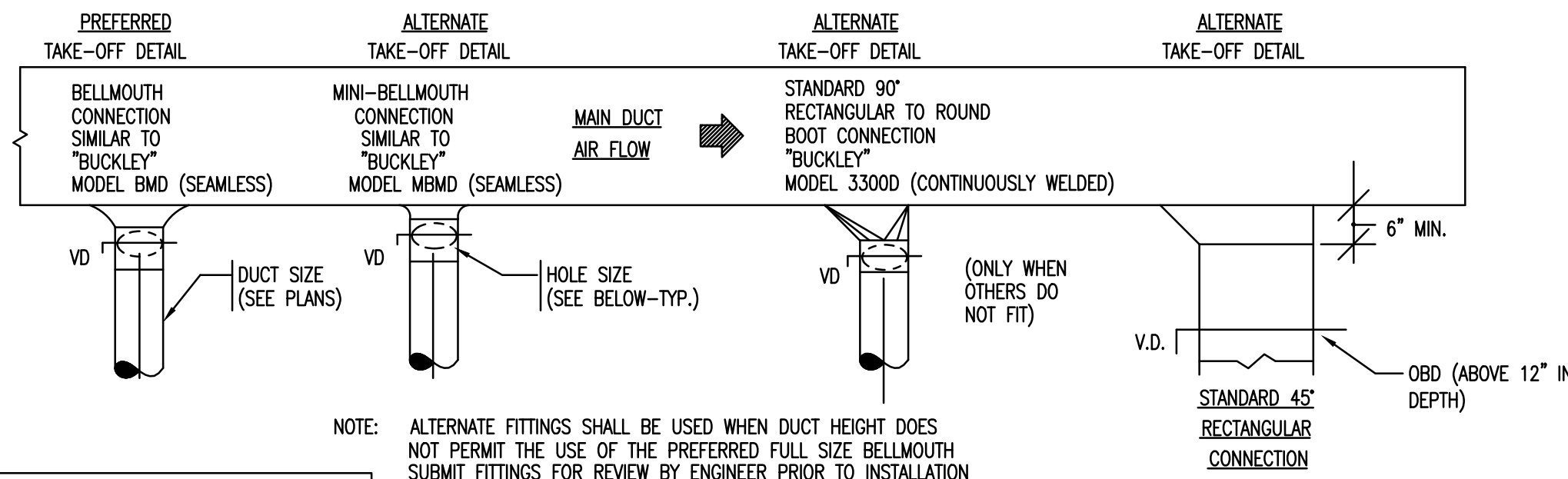


FLEXIBLE DUCT CONNECTION DETAIL  
N.T.S.

- NOTES:
- 1.- PROVIDE BACKDRAFT DAMPER W/ BIRDSCREEN
  - 2.- FLASH & SEAL WALL AND ROOF CAP

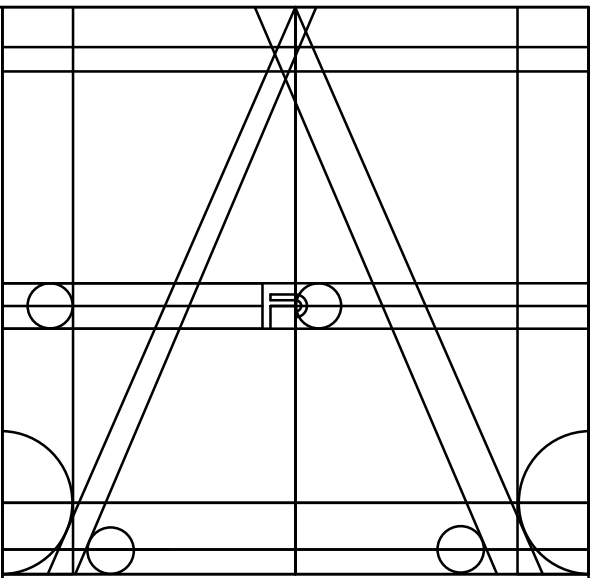


FLEXIBLE DUCT CONNECTION DETAIL  
N.T.S.



NOTE: PROVIDE VOLUME DAMPERS WITH REMOTE ADJUSTERS AT ALL LINEAR AND BAR GRILLE DIFFUSER.

DUCT TAKEOFFS DETAIL  
N.T.S.



ANA STUDIO ARCHITECTURE, PC  
ANA RESKREIS, RA  
280 RIVERSIDE DRIVE, 8th FL, NEW YORK, N.Y. 10025  
+1 212 646 5416 +1 212 646 5415  
ANASTUDIO013@GMAIL.COM  
www.FRENCHIDHS.com

WEXLER RESIDENCE  
300 SOUTHPONTE DR.  
4204

MIAMI BEACH, FL.  
33139

NOTES

| No. | Date | Description |
|-----|------|-------------|
|     |      |             |
|     |      |             |
|     |      |             |
|     |      |             |
|     |      |             |
|     |      |             |

TITLE

|                |                  |
|----------------|------------------|
| SEAL & MONITOR | DATE: 12.12.2023 |
| PROJECT NO.    |                  |
| DRAWN BY:      |                  |
| CHECKED BY:    |                  |
| DRG No.        |                  |

M-3

PAGE 01

Fine Line Engineers Inc.  
Electrical, Mechanical, Plumbing  
Fire Protection, Construction Administration  
2089 W. 76TH STREET Hialeah, FL 33016  
Voice: 786.953-4001 Fax: 786.953-4007  
E-mail: cadinfo@flengineers.com  
GEORGE FREJO, P.E.  
REGISTERED ENGINEER NO. 32578  
STATE OF FLORIDA C.A.# 29796  
ONLY PRINTED REVISIONS

SPACE FOR NYC-BSCAN STICKER