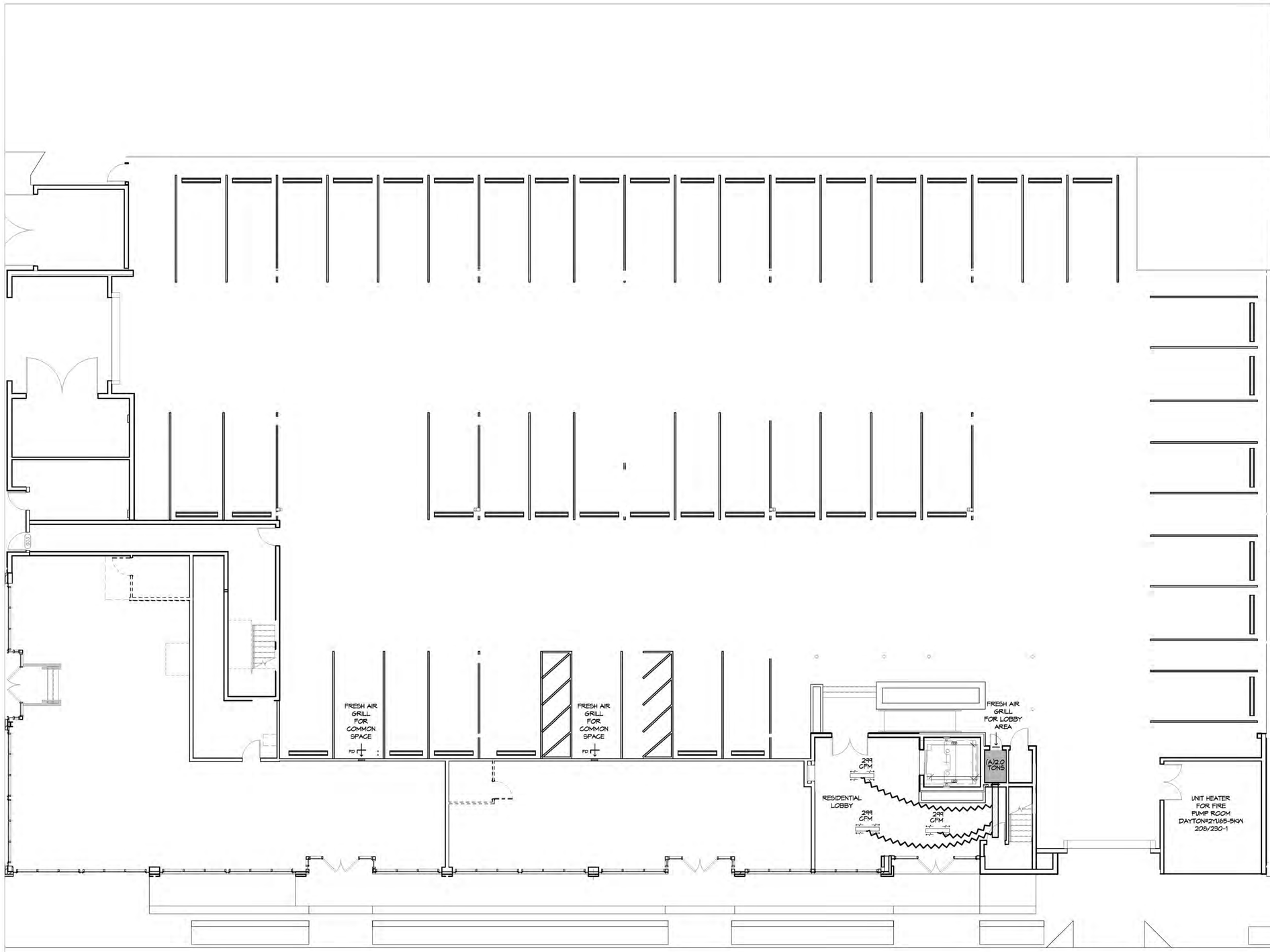

1 MECHANICAL GROUND FLOOR
SCALE:

A/C UNIT SCHEDULE

LOCATION	MARK	QUANTITY	TOTAL BTU	CFM	O.A.	HEAT	COMMENTS
LOBBY AREA	A	1	24,000 2 TON	849	84	5 KW	LENNOX 2.0 TON CONDENSER MODEL # XP14-024 2.5 AIR HANDLER MODEL # CBX25UH-024

GENERAL HVAC NOTES

1. CONCEALED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED PER SMACNA STANDARDS.
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".
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.
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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.

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STATE OF LOUISIANA
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in joint venture with:

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Chief Engineer: Brian Mistich, PE
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Permit Documents
MECHANICAL GROUND FLOOR
11/09/2015

M100

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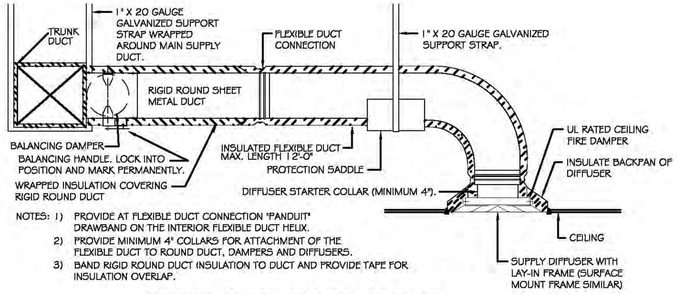

NOTES: 1) PROVIDE AT FLEXIBLE DUCT CONNECTION "PANDUIT" DRAWBAND ON THE INTERIOR FLEXIBLE DUCT HELIX.
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3) BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.

DIFFUSER CONNECTION DETAIL-FLEX DUCT

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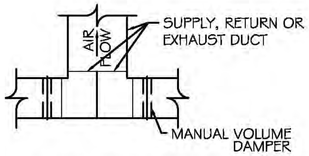

DUCT SPLITTER DETAIL

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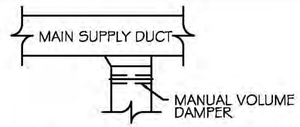

SUPPLY DUCT TAKE-OFF DETAIL

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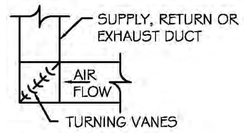

SQUARE ELBOW DETAIL

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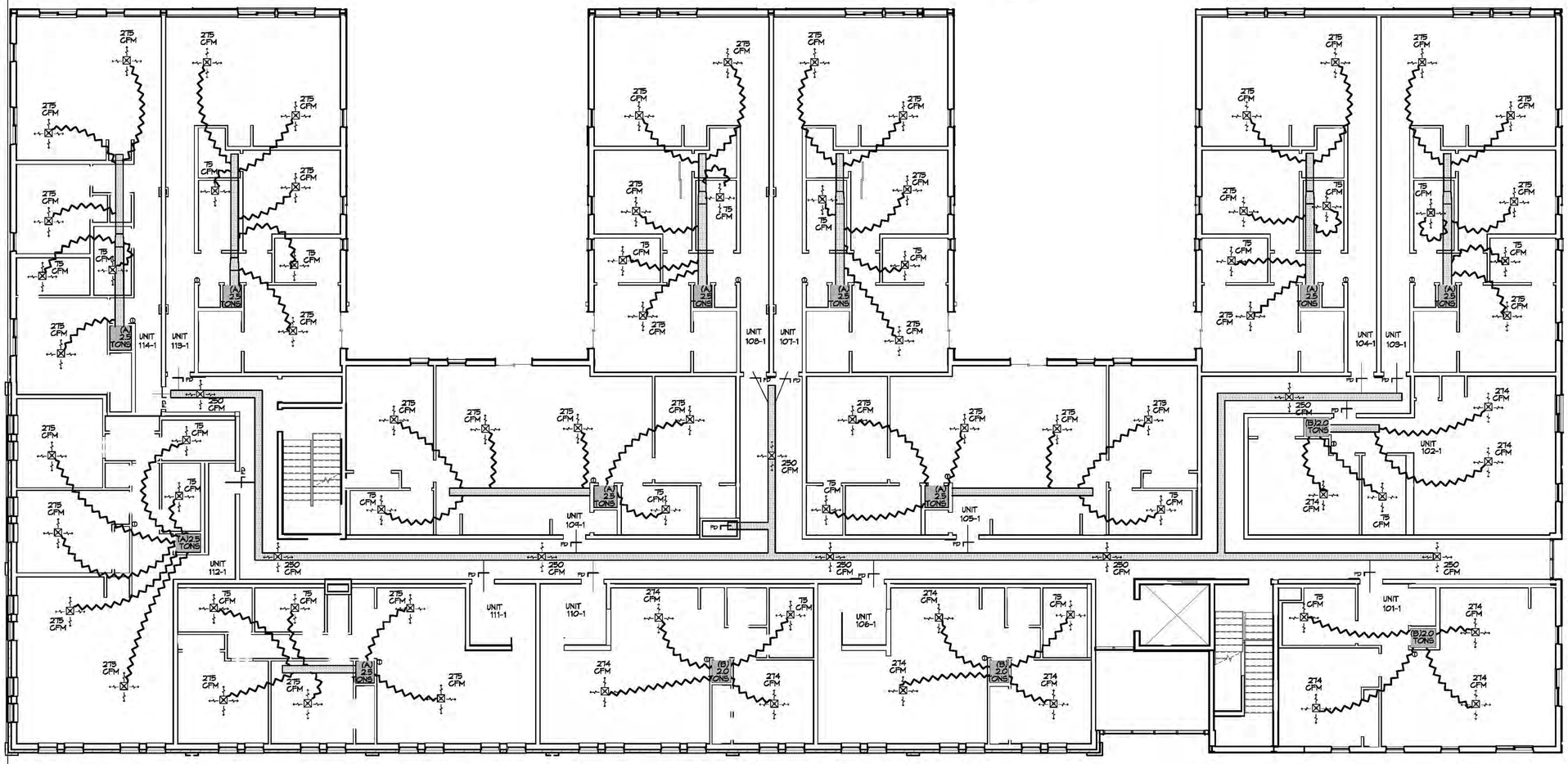

1 MECHANICAL HVAC FIRST FLOOR

SCALE:

A/C UNIT SCHEDULE

UNIT #	MARK	QUANITY	TOTAL BTU	CFM	O.A.	HEAT ELEC.	COMMENTS
104,103,105,107,108 104,111,112,113,114	A	10	30,000 2.5 TON	1,250	125	7.5 KW	LENNOX 2.5 TON CONDENSER MODEL # XP14-030 2.5 AIR HANDLER MODEL # CBX25UH-030
101,102,108,110	B	4	24,000 2 TON	847	84	5 KW	LENNOX 2.0 TON CONDENSER MODEL # XP14-024 2.5 AIR HANDLER MODEL # CBX25UH-024

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LEGEND

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- FD SUPPLY AIR GRILLE WITH FIRE DAMPER
- FD 6" FRESH AIR SUPPLY WITH FIRE DAMPER
- SUPPLY AIR DUCT
- ROUND FLEX DUCT, MAX. LENGTH 12'-0", MIN R-6. PROVIDE MANUAL DAMPER AT DIFFUSER CONNECTIONS; DUCT SIZE AS FOLLOWS: 250CFM TO 330CFM = 8" 200CFM TO 250CFM = 8" 150CFM TO 200CFM = 7" 100CFM TO 150CFM = 6"

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MECHANICAL HVAC FIRST FL

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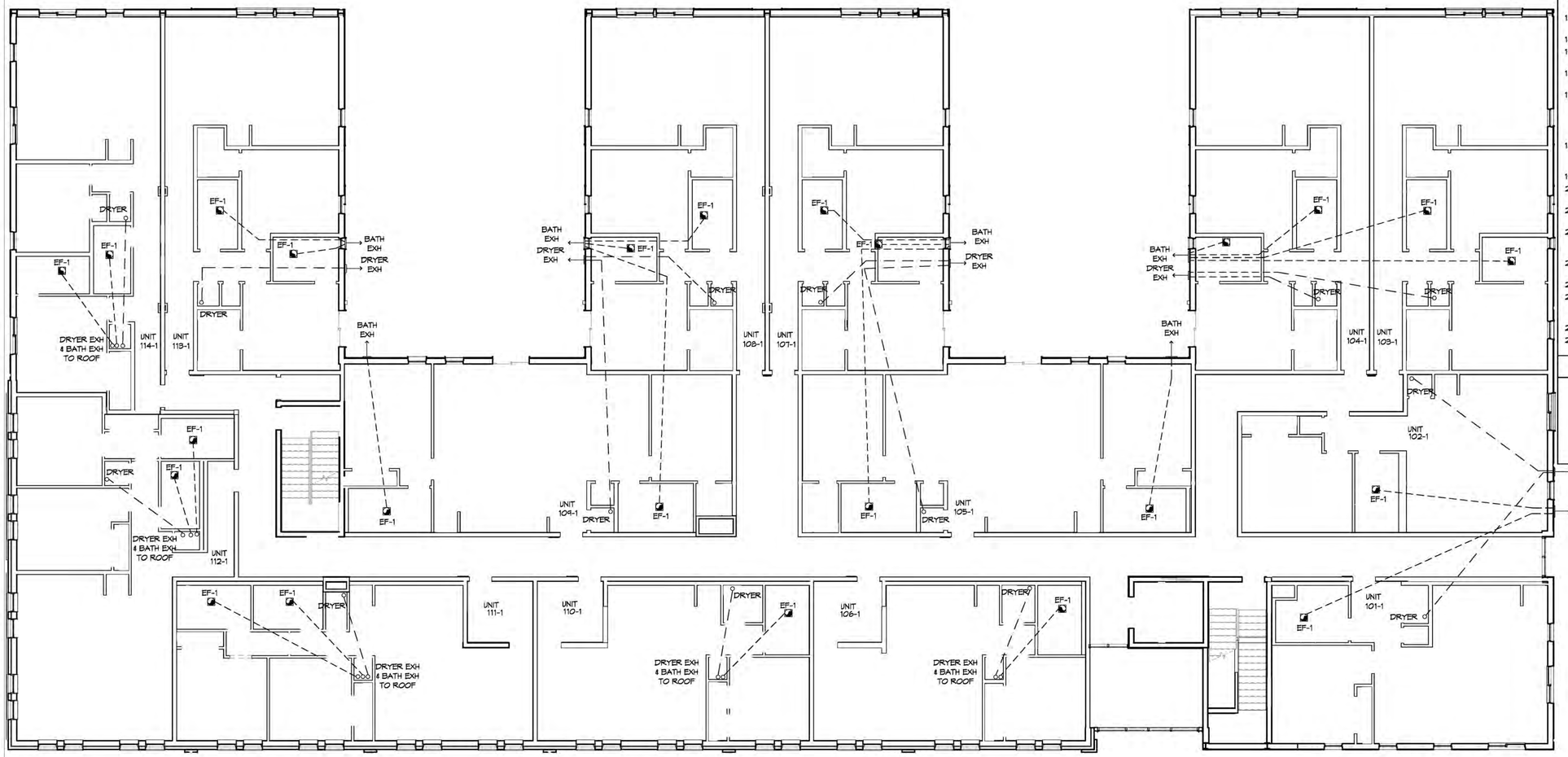

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LEGEND

- EXHAUST FAN
- DRYER EXHAUST, HARD PIPED DUCT
- BATH EXHAUST, HARD PIPED DUCT

BATH EXHAUST FAN			
FAN No.	CFM	VOLTAGE	TYPE
EF-1	75	120	VENT

STATE OF LOUISIANA
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12/18/2015

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MECHANICAL EXHAUST FIRST FL

10/12/2015

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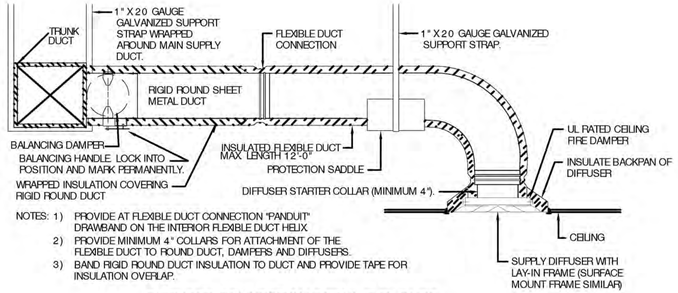

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DIFFUSER CONNECTION DETAIL-FLEX DUCT
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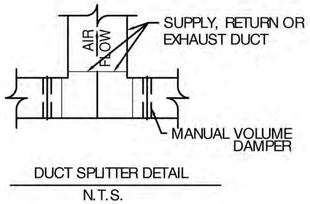

DUCT SPLITTER DETAIL
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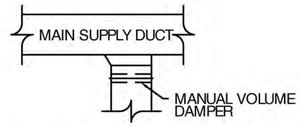

SUPPLY DUCT TAKE-OFF DETAIL
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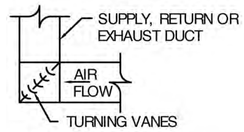

SQUARE ELBOW DETAIL
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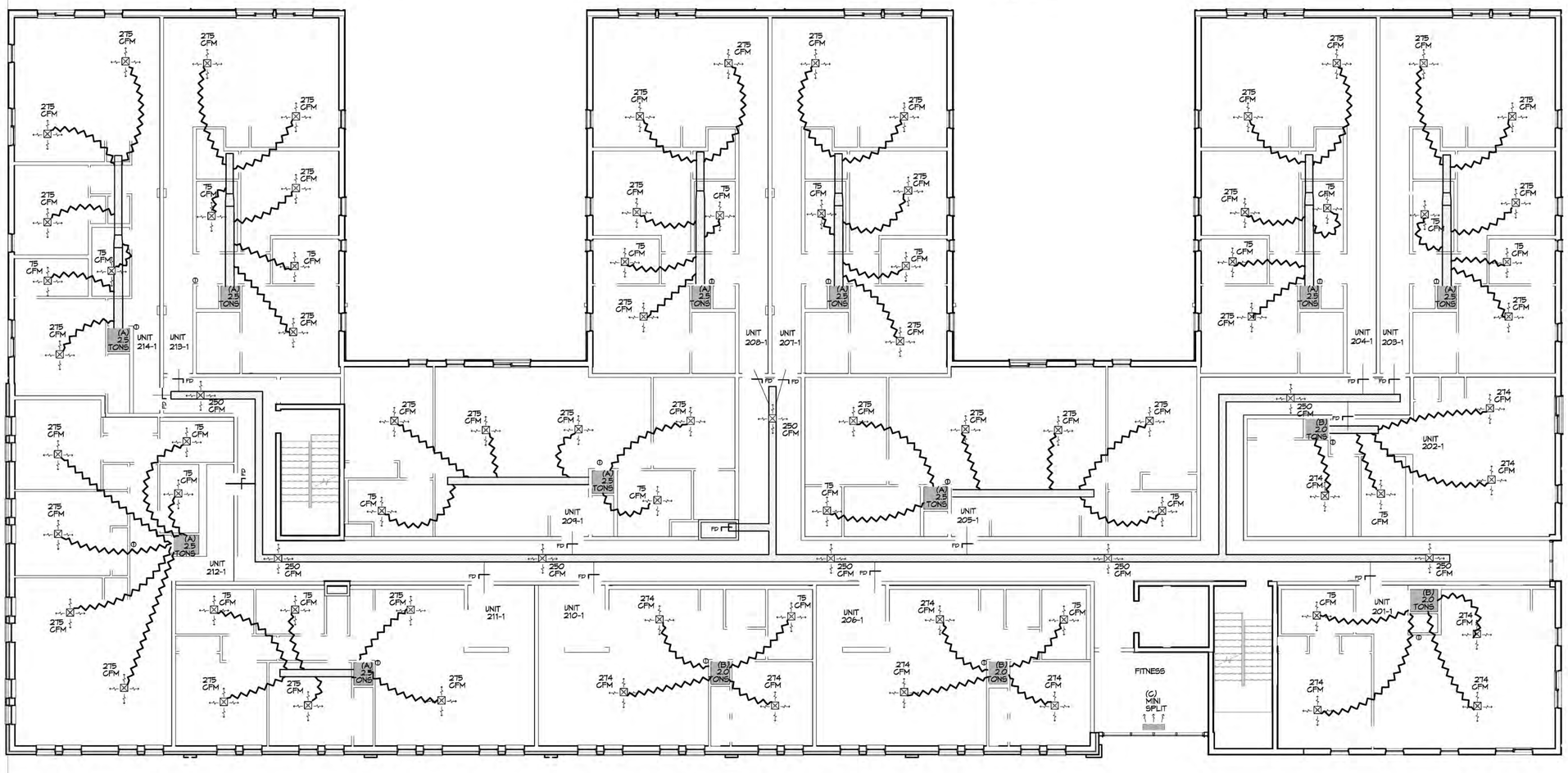
LEGEND

- ① THERMOSTAT
- FD SUPPLY AIR GRILLE WITH FIRE DAMPER
- FD 6" FRESH AIR SUPPLY WITH FIRE DAMPER
- SUPPLY AIR DUCT
- ROUND FLEX DUCT. MAX. LENGTH 12'-0", MIN R-6. PROVIDE MANUAL DAMPER AT DIFFUSER CONNECTIONS; DUCT SIZE AS FOLLOWS:
  250CFM TO 350CFM = 8"
  200CFM TO 250CFM = 8"
  150CFM TO 200CFM = 7"
  100CFM TO 150CFM = 6"



1 MECHANICAL HVAC SECOND FLOOR
SCALE:

A/C UNIT SCHEDULE

UNIT #	MARK	QUANITY	TOTAL BTU	CFM	O.A.	HEAT	COMMENTS
204,203,205,207,208, 209,211,212,213,214	A	10	30,000 2.5 TON	1,250	125	7.5 KW	LENNOX 2.5 TON CONDENSER MODEL # XP14-030 2.5 AIR HANDLER MODEL # CBX25UH-030
201,202,206,210	B	4	24,000 2 TON	841	89	5 KW	LENNOX 2.0 TON CONDENSER MODEL # XP14-024 2.5 AIR HANDLER MODEL # CBX25UH-024

DUCTLESS MINI SPLIT UNIT

MARK	QUANITY	TOTAL BTU	CFM	HEAT	COMMENTS
C	1	22,000 1.8 TON	540	23,200 BTU/H	FITNESS ROOM SHALL BE MITSUBISHI INDOOR UNITS MODEL #MSZ-GA24NA, OUTDOOR UNITS MODEL #MUZ-GA24NA

STATE OF LOUISIANA
BRIAN A. MISTICH
LICENSE No. 30187
PROFESSIONAL ENGINEER
MECHANICAL ENGINEERING
12/18/2015

in joint venture with:

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Architects & Engineers

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MECHANICAL HVAC SECOND FLOOR
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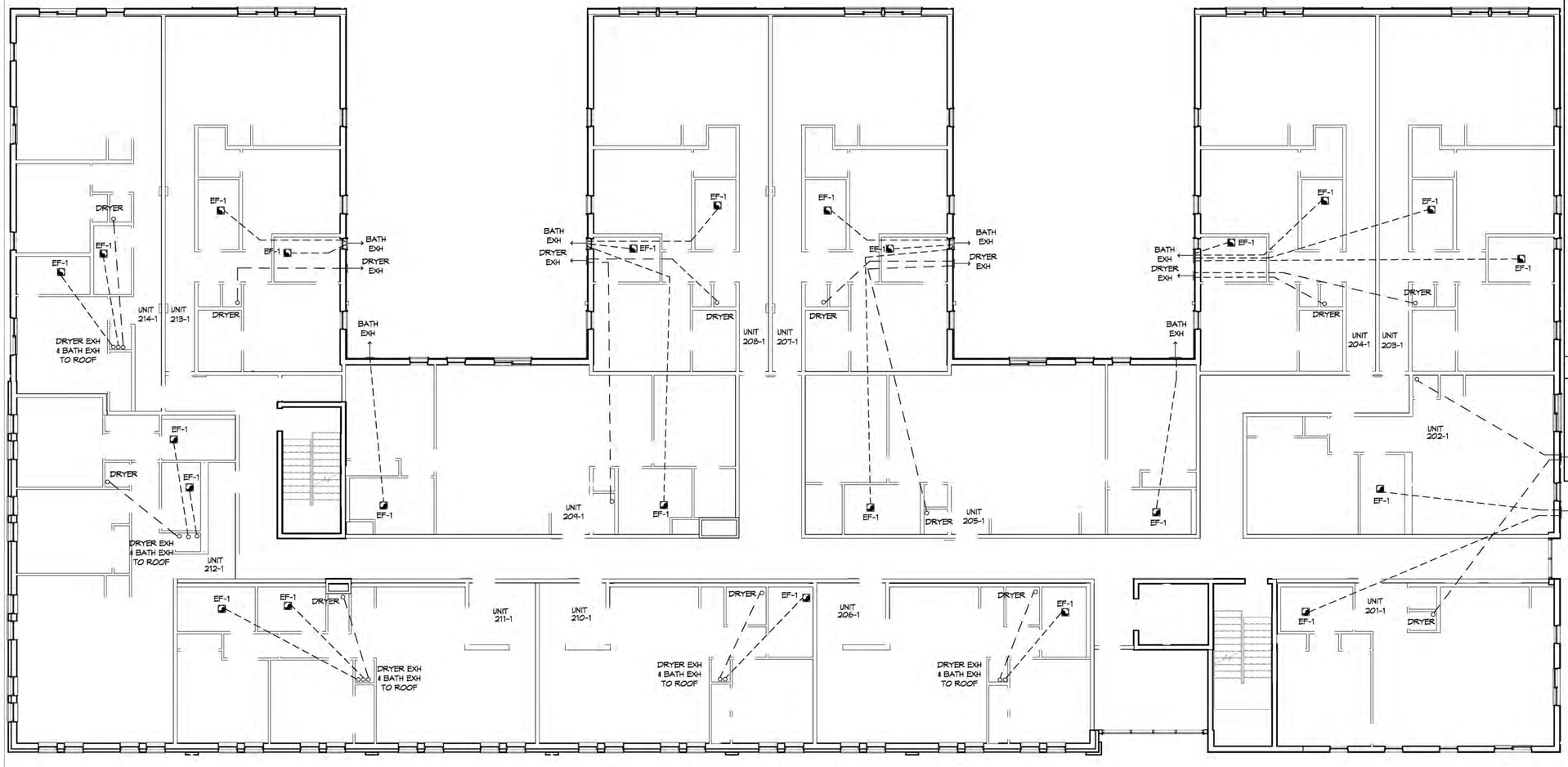

1 MECHANICAL EXHAUST SECOND FLOOR
SCALE:

GENERAL HVAC NOTES

1. CONCEALED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED PER SMACNA STANDARDS.
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".
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.

LEGEND

- EXHAUST FAN
- DRYER EXHAUST, HARD PIPED DUCT
- BATH EXHAUST, HARD PIPED DUCT

BATH EXHAUST FAN			
FAN No.	CFM	VOLTAGE	TYPE
EF-1	75	120	VENT

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MECHANICAL EXHAUST SECOND FLOOR
10/12/2015

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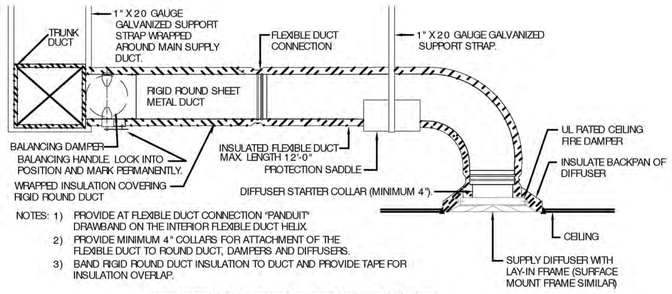
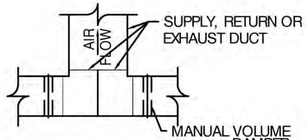


NOTES: 1) PROVIDE AT FLEXIBLE DUCT CONNECTION "PANDUIT" DRAWBAND ON THE INTERIOR FLEXIBLE DUCT HELIX.
2) PROVIDE MINIMUM 4" COLLARS FOR ATTACHMENT OF THE FLEXIBLE DUCT TO ROUND DUCT, DAMPERS AND DIFFUSERS.
3) BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.

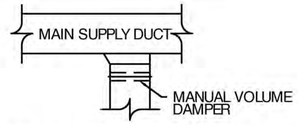
DIFFUSER CONNECTION DETAIL-FLEX DUCT

N.T.S.



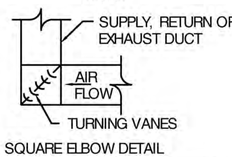
DUCT SPLITTER DETAIL

N.T.S.



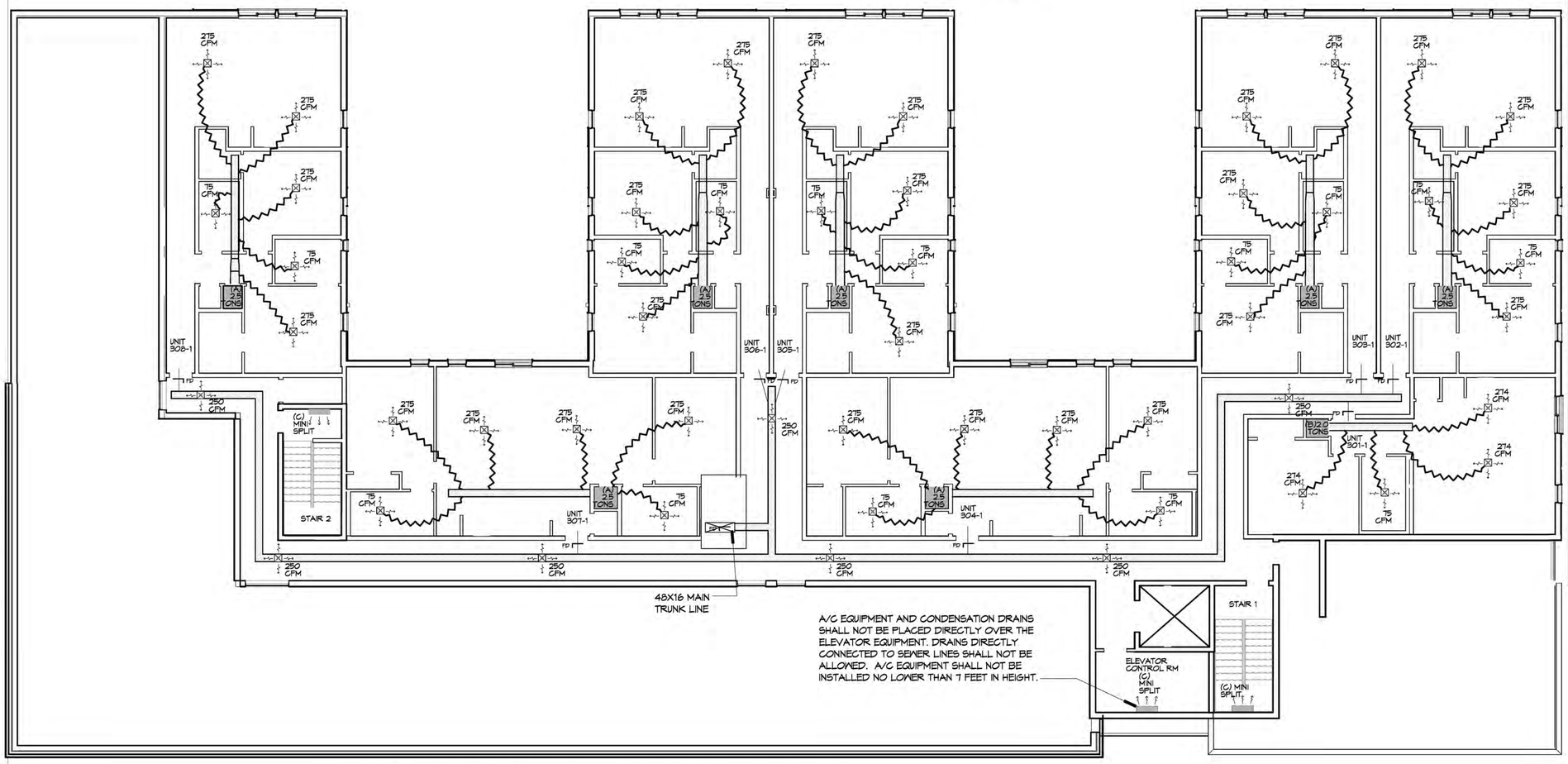
SUPPLY DUCT TAKE-OFF DETAIL

N.T.S.



SQUARE ELBOW DETAIL

N.T.S.



1 MECHANICAL HVAC THIRD FLOOR

SCALE:

A/C UNIT SCHEDULE

UNIT #	MARK	QUANITY	TOTAL BTU	CFM	O.A.	HEAT ELEC.	COMMENTS
302,303,304,305 306,307,308	A	7	30,000 2.5 TON	1,250	125	7.5 KW	LENNOX 2.5 TON CONDENSER MODEL # XP14-030 2.5 AIR HANDLER MODEL # CBX25UH-030
301	B	1	24,000 2 TON	847	84	5 KW	LENNOX 2.0 TON CONDENSER MODEL # XP14-024 2.5 AIR HANDLER MODEL # CBX25UH-024

DUCTLESS MINI SPLIT UNIT

MARK	QUANITY	TOTAL BTU	CFM	HEAT	COMMENTS
C	3	22,000 1.8 TON	590	23,200 BTU/H	FITNESS ROOM SHALL BE MITSUBISHI INDOOR UNITS MODEL #MSZ-GA24NA, OUTDOOR UNITS MODEL #MUZ-GA24NA

GENERAL HVAC NOTES

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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.
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26. SEE ROOF PLAN FOR ALL ROOF PENETRATIONS.
27. PROVIDE MIN 19 GA GALVANIZED SHEET METAL TO BLANK-OFF GABLE VENTS WHERE INTAKE/EXHAUST DUCTS OCCUR.

LEGEND

- (T) THERMOSTAT
- FD SUPPLY AIR GRILLE WITH FIRE DAMPER
- FD 6" FRESH AIR SUPPLY WITH FIRE DAMPER
- SUPPLY AIR DUCT
- ROUND FLEX DUCT, MAX. LENGTH 12'-0", MIN R-6. PROVIDE MANUAL DAMPER AT DIFFUSER CONNECTIONS; DUCT SIZE AS FOLLOWS: 250CFM TO 350CFM = 9" 200CFM TO 250CFM = 8" 150CFM TO 200CFM = 7" 100CFM TO 150CFM = 6"

STATE OF LOUISIANA
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MECHANICAL HVAC THIRD FLOOR
11/09/2015

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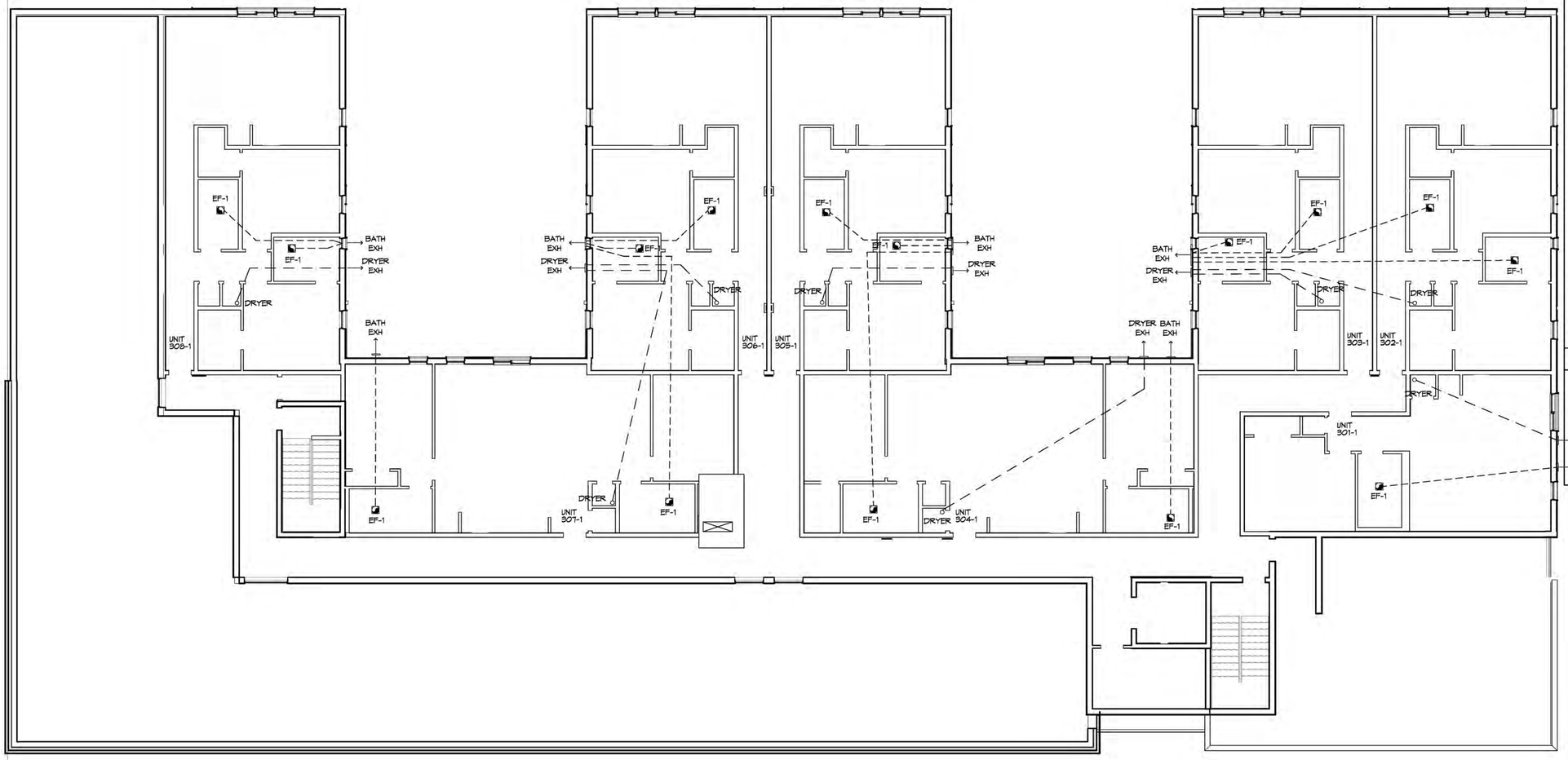

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6. PROVIDE UL LISTED 125 'F' FIRESTAT IN RETURN AIR OF EACH SYSTEM UNDER 2000 CFM TO SHUT DOWN THE FAN IN THE EVENT OF FIRE.
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13. ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS AT THE REGISTER.
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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.

LEGEND

- EXHAUST FAN
- DRYER EXHAUST, HARD PIPED DUCT
- BATH EXHAUST, HARD PIPED DUCT
- DRYER EXH
- BATH EXH

BATH EXHAUST FAN			
FAN No.	CFM	VOLTAGE	TYPE
EF-1	75	120	VENT

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SCALE:

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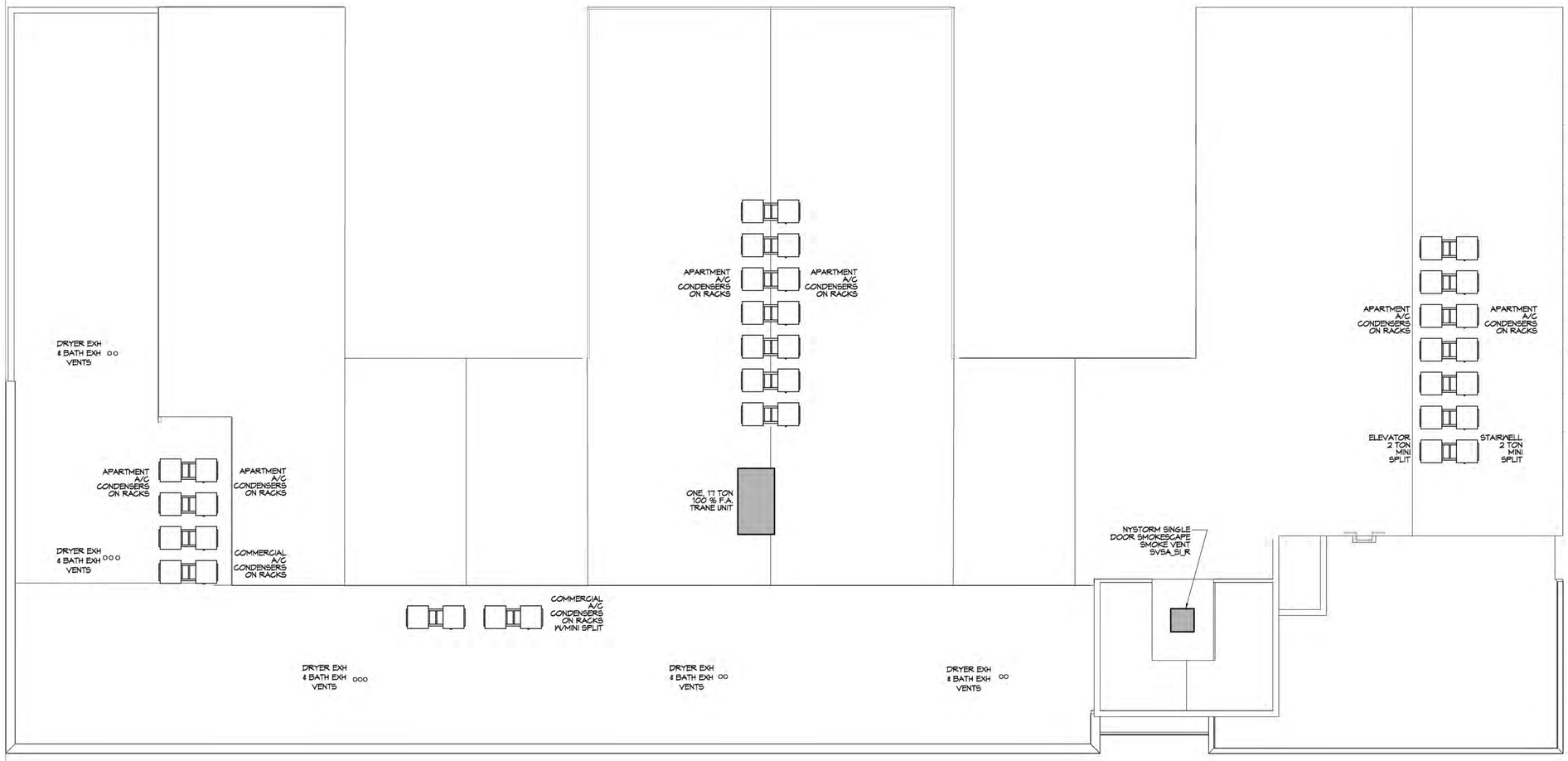

1 MECHANICAL ROOF PLAN
SCALE:

GENERAL HVAC NOTES

1. CONCEALED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED PER SMACNA STANDARDS.
2. EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED PER SMACNA STANDARDS.
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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.

TRANE, 17 TON 100% FRESH AIR UNIT
ONE, HORIZON (B/G) PACKAGED CURB MOUNTED MULTI-FUNCTION HEATING, COOLING AND VENTILATION UNIT. MODEL #OAGD210A3-D10000-000B000(

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