
RIVERHOUSE AT
Odette's

274 SOUTH RIVER ROAD
NEW HOPE, PA 18838

OWNER/ OPERATOR:
GATEWAY TO NEW HOPE, LLC
274 South River Road
New Hope, PA 18838

ARCHITECT:
STOKES ARCHITECTURE
2103 Sansom Street
Philadelphia, PA 19103
tel: (215) 523-9190

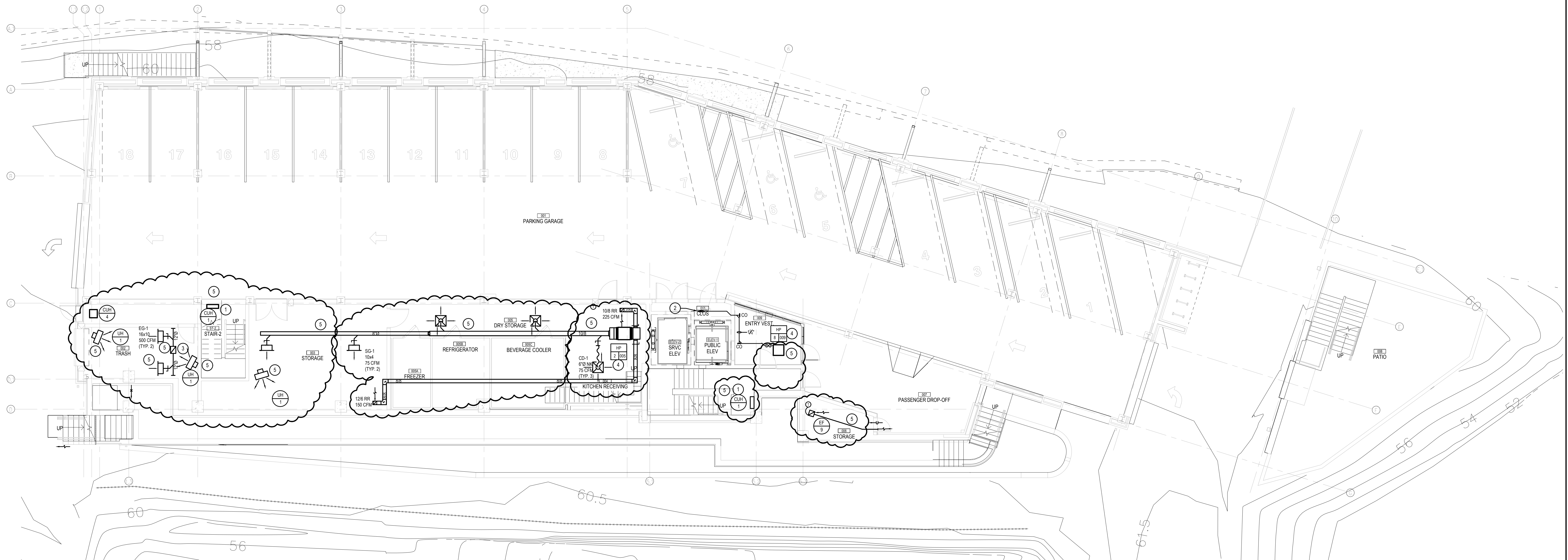
INTERIOR DESIGNER:
BALONGUE DESIGN INC
707 Marlborough Road
Villanova, PA 19085
tel: (610) 525-7593
fax: (610) 525-7594

CIVIL ENGINEER:
VAN CLEEF ENGINEERING
ASSOCIATES, LLC
501 North Main Street
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tel: (215) 345-1876
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STRUCTURAL ENGINEER:
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Philadelphia, PA 19106
tel: (215) 925-3788

MEP ENGINEER:
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LIGHTING DESIGNER:
BRIAN ORTER LIGHTING DESIGN LLC
227 W. 29th St 8th Floor
New York, NY 10001
tel: (646) 502-7568



PARTIAL GRADE LEVEL PLAN — MECHANICAL
SCALE : 1/8" = 1'-0"

NOTES :

- 1- REFER TO DRAWING MPE-1 FOR HVAC, PLUMBING/FIRE PROTECTION & ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS & DRAWING LIST.
- 2- COORDINATE FINAL AIR DEVICE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN, LIGHTING PLAN, FIRE PROTECTION AND SPRINKLERS.

DRAWING NOTES :

- 1 MOUNT CUH UNDERNEATH SLAB ABOVE.
- 2 EXTEND INSULATED CONDENSATE DRAIN PIPING TO HUB DRAIN. CO-ORDINATE WPC FOR DRAIN LOCATION.
- 3 18" EXHAUST TO ABOVE.
- 4 RUN REFRIGERANT GAS AND LIQUID PIPING TO AND FROM HPS ON GRADE LEVEL TO MAIN BC CONTROLLER FOR CD-2 ON THIRD FLOOR. FINAL REFRIGERANT PIPING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- 5 LOCATE ABOVE REGULATORY FLOOD ELEVATION.

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MARK	REVISIONS	DATE
3	ISSUE FOR CONSTRUCTION	02.28.2019
2	COMMISSIONING COMMENTS	01.23.2019
1	PERMIT SET	07.25.2018
1	90% PRICING SET	06.18.2018

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02-28-2019

GRADE LEVEL PLAN -
MECHANICAL

DRAWING

M-1

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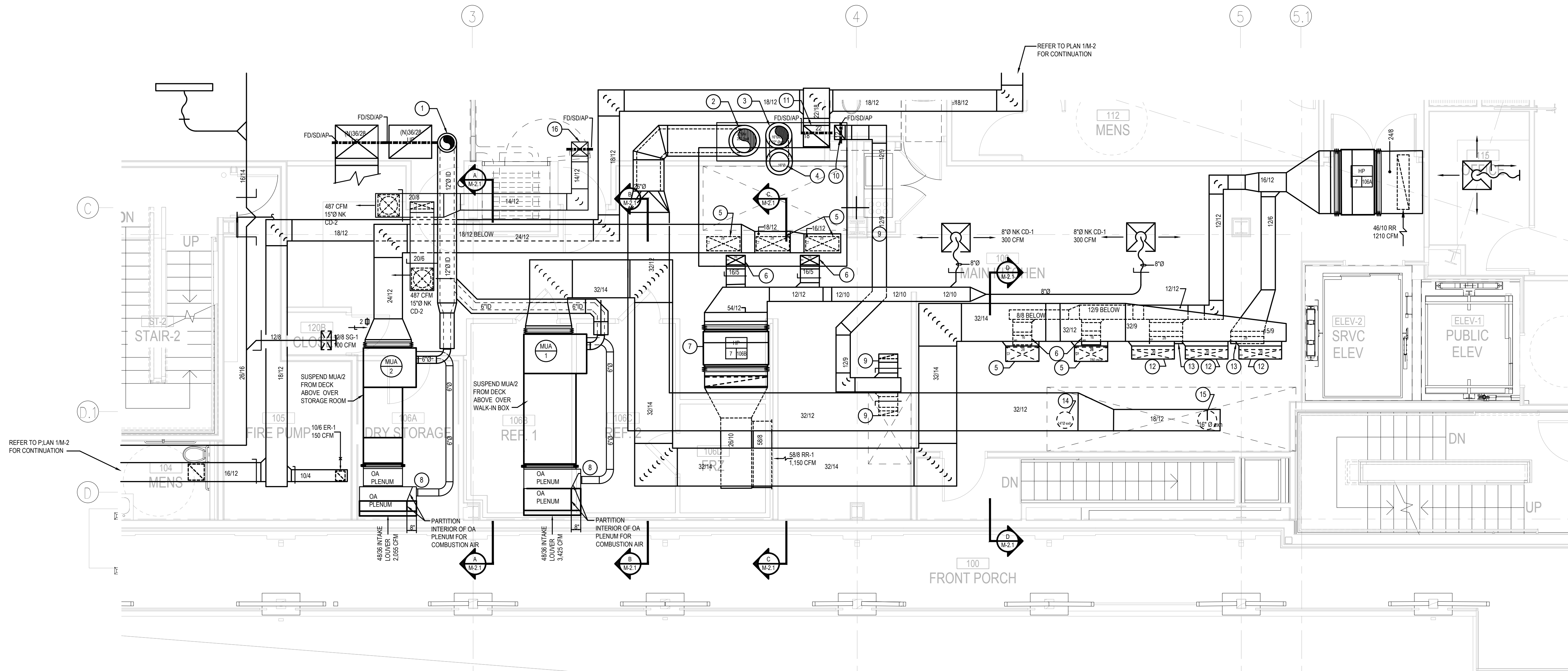
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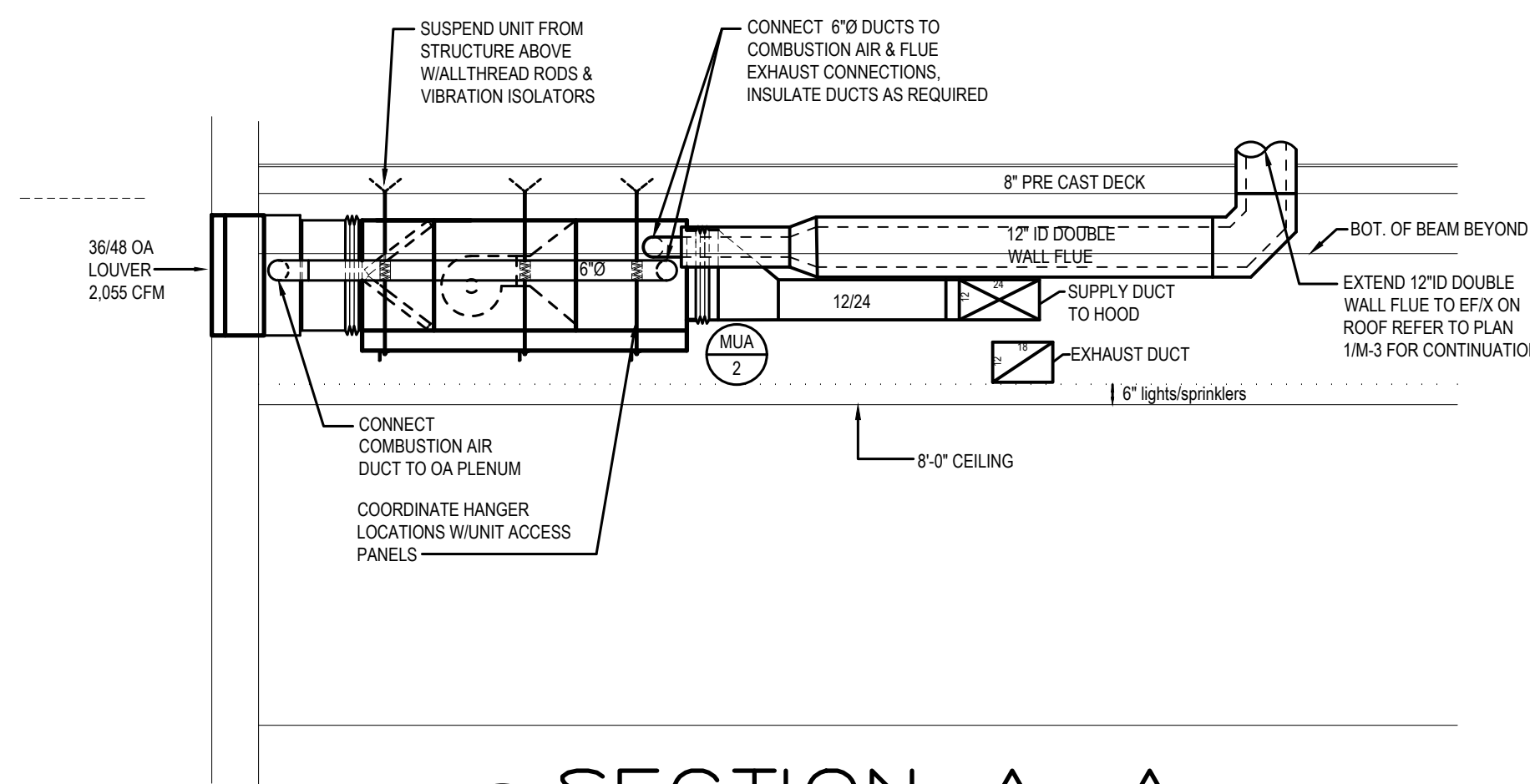
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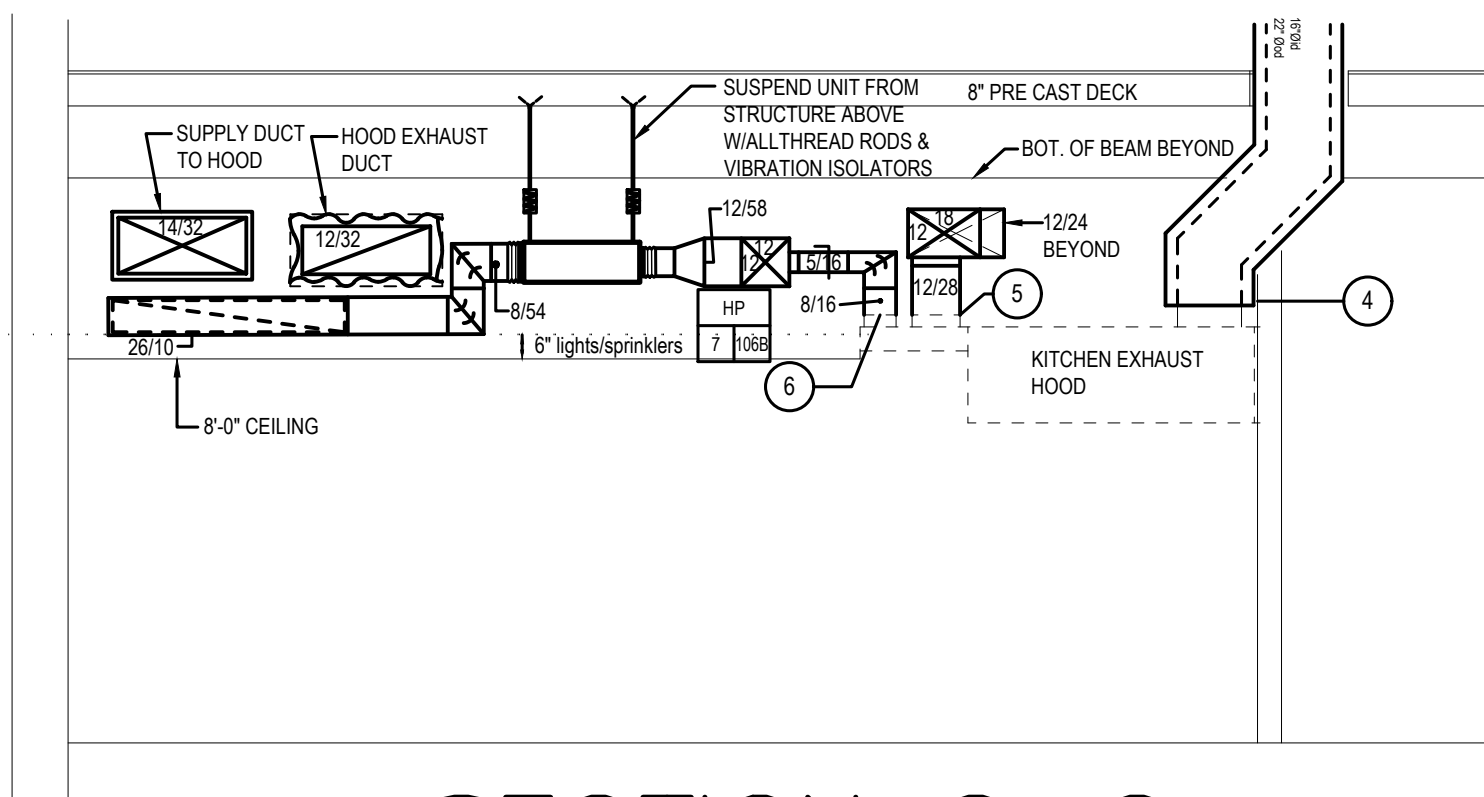
1/4" KITCHEN PLAN PLAN - MECHANICAL

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



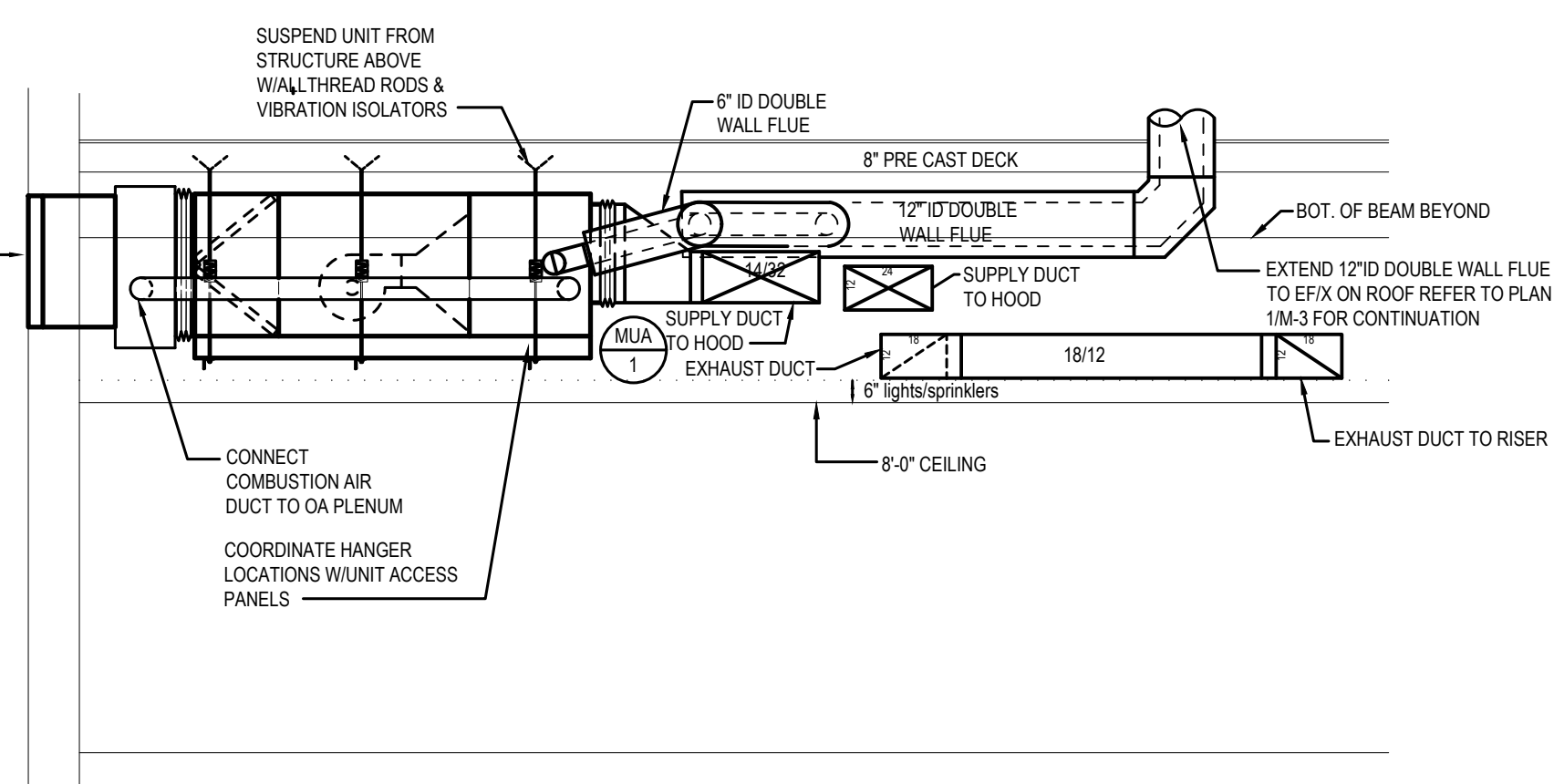
SECTION A-A

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



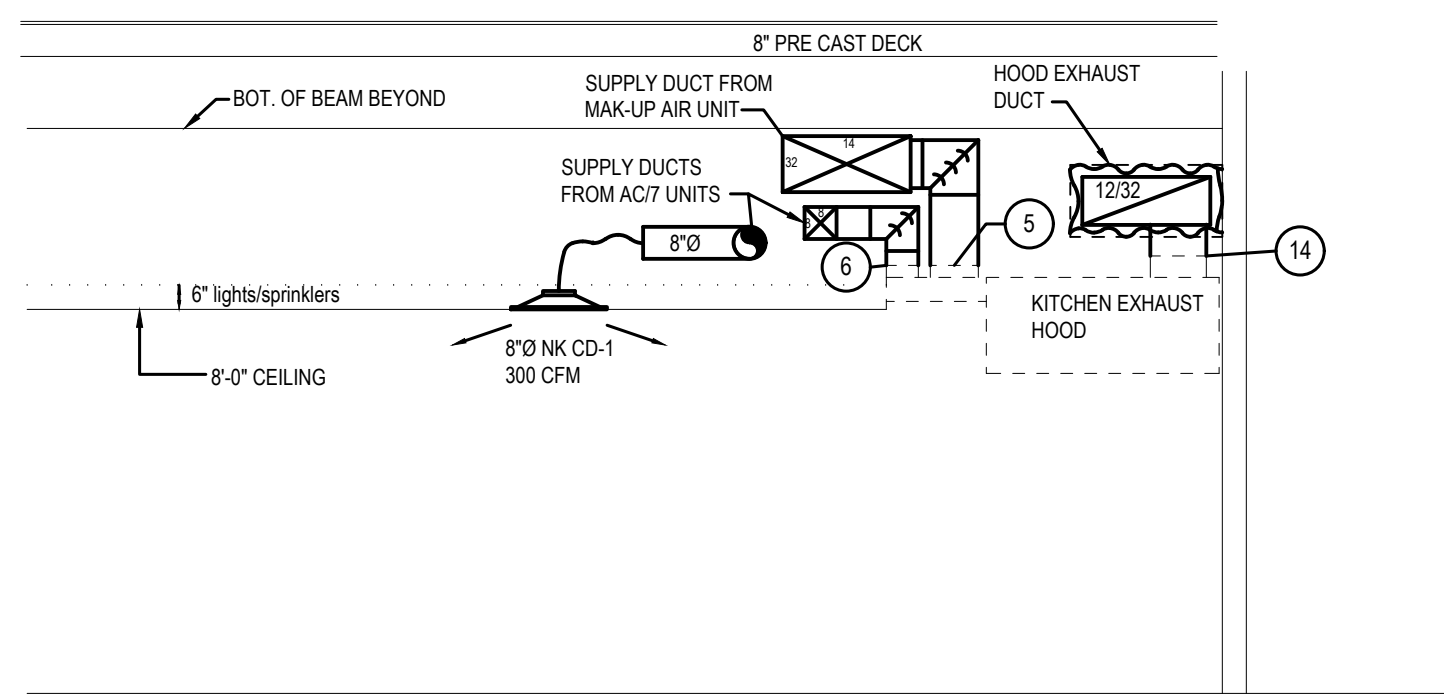
SECTION C-C

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



SECTION B-B

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



SECTION D-D

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

DRAWING NOTES :

- 12\"/>
- 20\"/>
- 16\"/>
- 16\"/>
- 28\"/>
- 8\"/>
- 7\"/>
- CONNECT MUA UNIT COMBUSTION AIR DUCT TO OA PLENUM. INSTALL INTERIOR PARTITIONS WITHIN OA PLENUM AS INDICATED.
- CONNECT ALUMINUM EXHAUST DUCT TO DISHWASHER EXHAUST CONNECTIONS (1/4\"/>
- 128\"/>
- 22\"/>
- 36\"/>
- 28\"/>
- 14\"/>
- 16\"/>
- 14\"/>

NOTES :

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2. COORDINATE FINAL AIR DEVICE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN, LIGHTING PLAN, FIRE PROTECTION AND SPRINKLER.

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1/4" SCALE KITCHEN PLAN
-MECHANICAL

DRAWING

M-2.1

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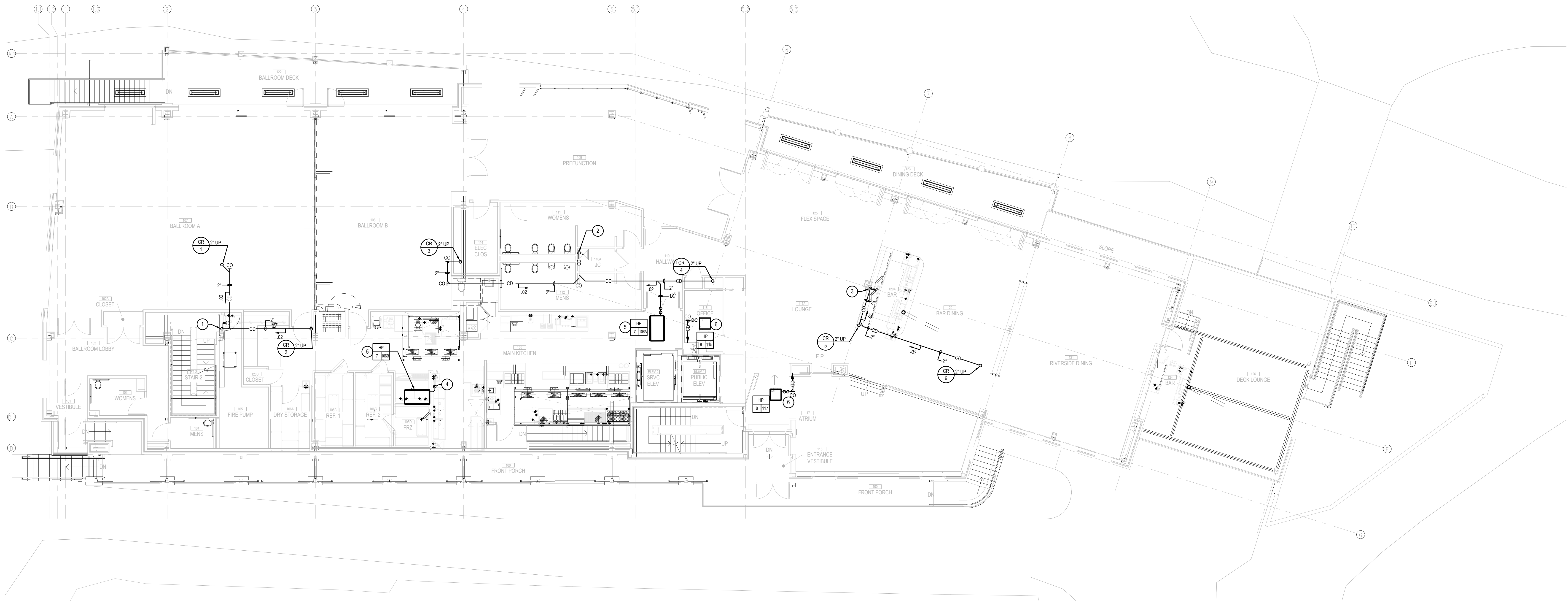
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FIRST FLOOR
PLAN-MECHANICAL
PIPING

DRAWING

M-2.2



1 FIRST FLOOR PLAN — MECHANICAL PIPING
SCALE : 1/8" = 1'-0"

NOTES :

- 1- REFER TO DRAWING MPE-1 FOR HVAC, PLUMBING/FIRE PROTECTION & ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS & DRAWING LIST.

DRAWING NOTES :

- 1 2" CR PIPE DN IN CHASE, EXTEND TO FLOOR SINK IN VICINITY. TERMINATE W/ AIR GAP.
2 2" CR PIPE DN IN CORNER, EXTEND TO MOP RECEPTOR. TERMINATE W/ AIR GAP.
3 2" CR PIPE DN IN COLUMN ENCLOSURE, EXTEND TO FLOOR SINK IN VICINITY. TERMINATE W/ AIR GAP.
4 1-1/4" CD PIPE DN. EXTEND TO FLOOR SINK IN VICINITY. TERMINATE W/ AIR GAP.
5 RUN REFRIGERANT GAS AND LIQUID PIPING TO AND FROM HPP'S ON FIRST FLOOR TO MAIN BC CONTROLLER FOR CU-1 ON SECOND FLOOR. FINAL REFRIGERANT PIPING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
6 EXTEND 1-1/4" INSULATED CONDENSATE DRAIN PIPING TO HUB DRAIN. COORDINATE W/ PC FOR HUB DRAIN LOCATION.

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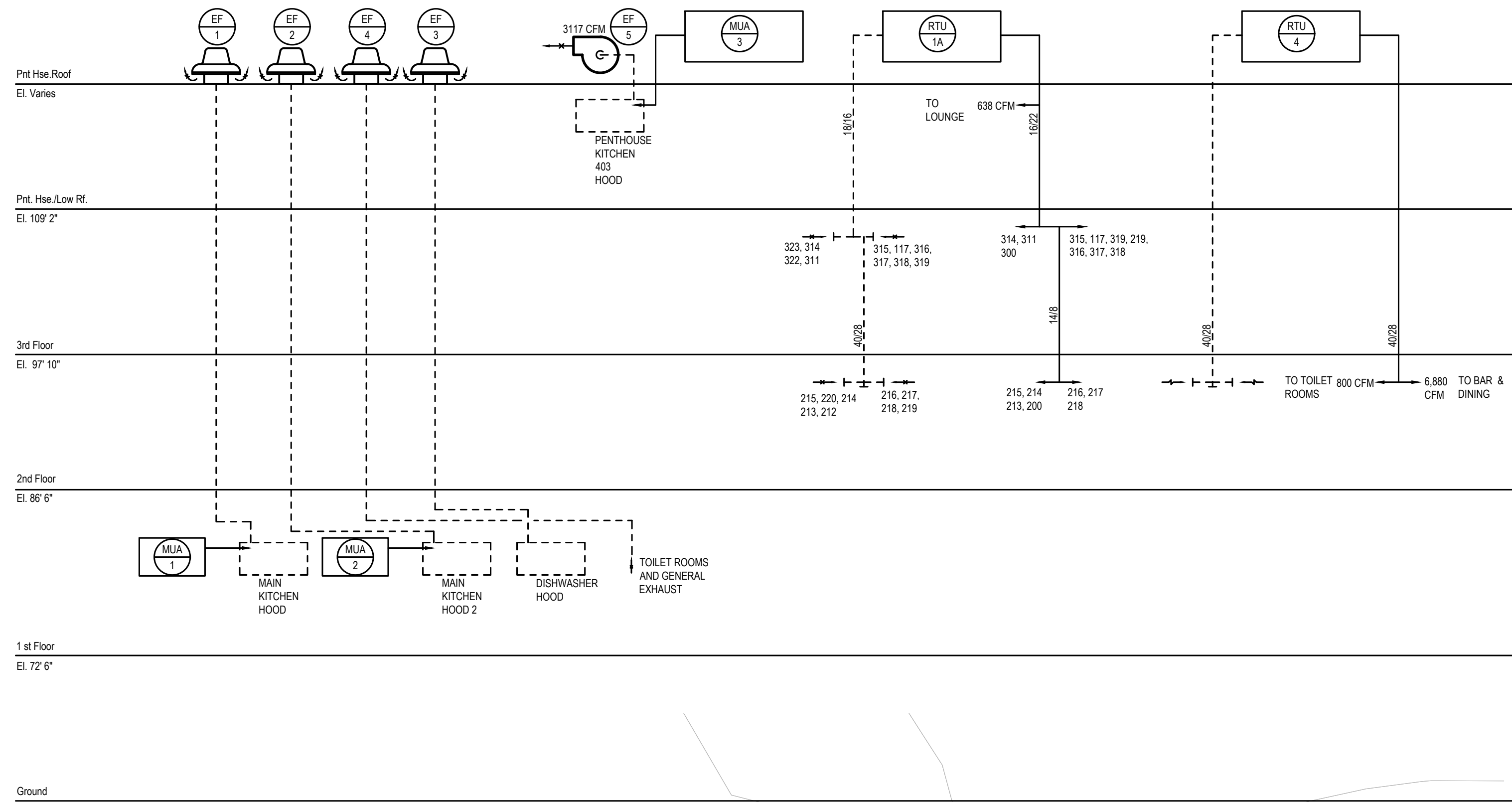
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FIRST FLOOR PLAN -
MECHANICAL

DRAWING

M-2



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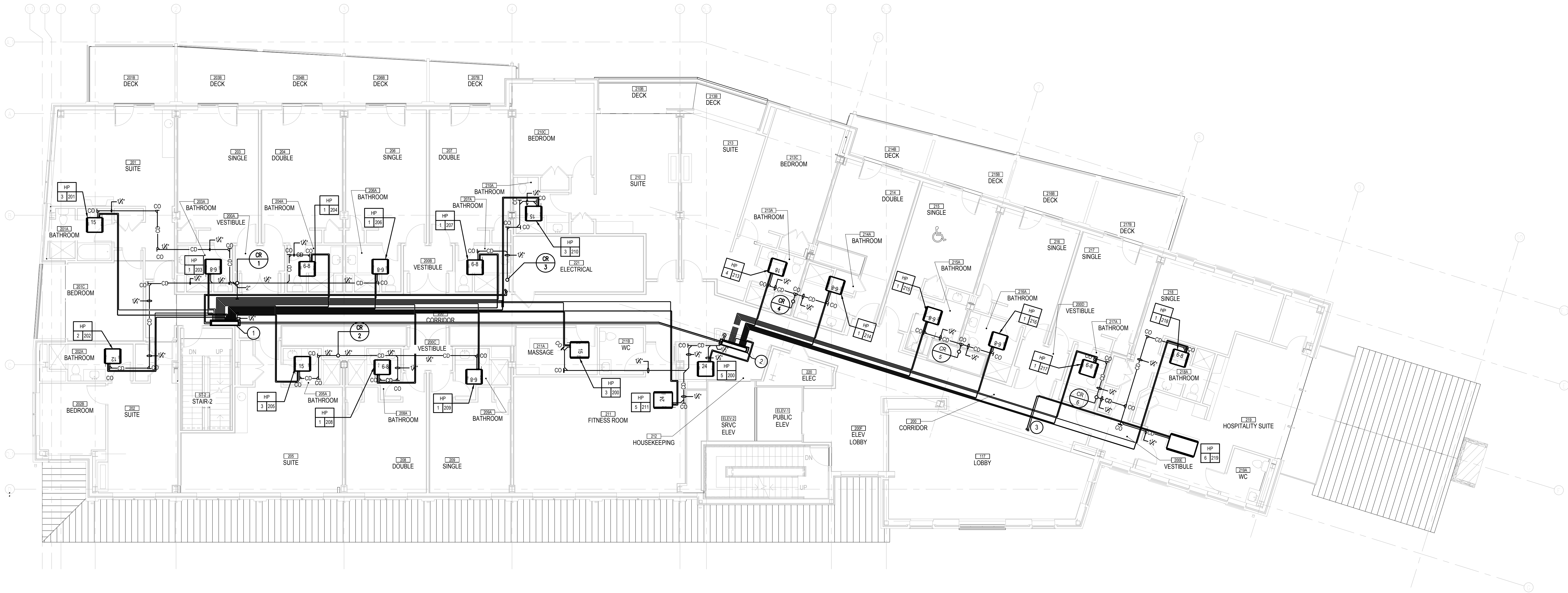
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SECOND FLOOR PLAN-
MECHANICAL PIPING

DRAWING

M-3.1A



SECOND FLOOR PLAN — MECHANICAL PIPING

SCALE : 1/8" = 1'-0"

NOTES :

- REFER TO DRAWING MPE-1 FOR HVAC, PLUMBING/FIRE PROTECTION & ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS & DRAWING LIST.
- ALL CONDENSATE DRAIN PIPING SHALL SLOPE TO RISERS AT 1/4" SLOPE.
- FINAL REFRIGERANT PIPING SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS.

DRAWING NOTES :

- MAIN BC CONTROLLER BOX FOR CU-1. RUN REFRIGERANT GAS AND LIQUID PIPING TO AND FROM HPS ON FIRST FLOOR TO MAIN BC CONTROLLER FOR CU-1. MC TO PROVIDE AN INSULATED GALVANIZED STEEL DRAIN PAN W/ DRAIN PIPE BELOW BC CONTROLLER BOX.
- SUB BC CONTROLLER BOX FOR CU-1. MC TO PROVIDE AN INSULATED GALVANIZED STEEL DRAIN PAN W/ DRAIN PIPE BELOW BC CONTROLLER BOX.
- REFRIGERANT GAS AND LIQUID PIPING DOWN FROM THIRD FLOOR. REFER TO PLAN 104-4.1A FOR CONTINUATION.

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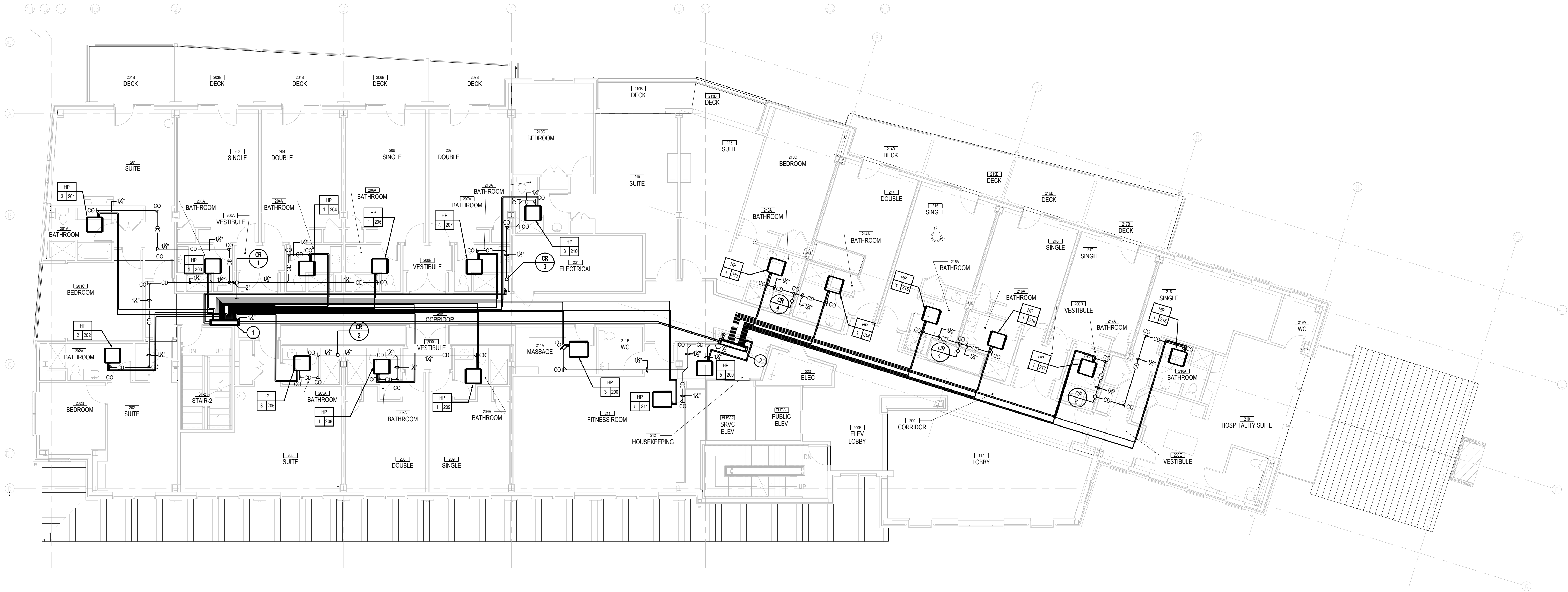
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SECOND FLOOR PLAN-
MECHANICAL PIPING

DRAWING

M-3.1



SECOND FLOOR PLAN — MECHANICAL PIPING

SCALE : 1/8" = 1'-0"

NOTES :

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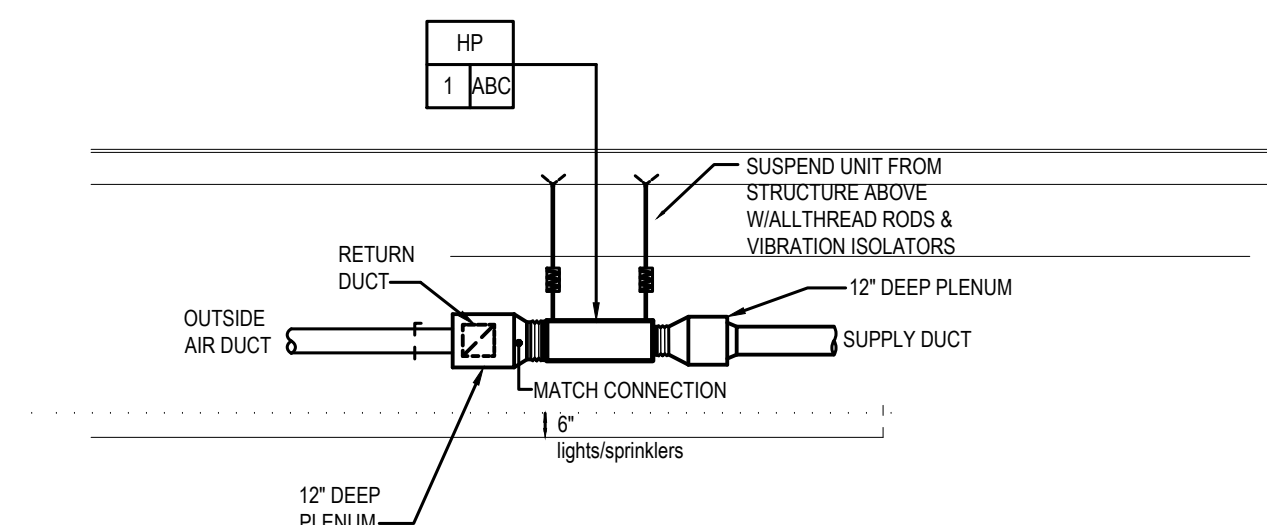
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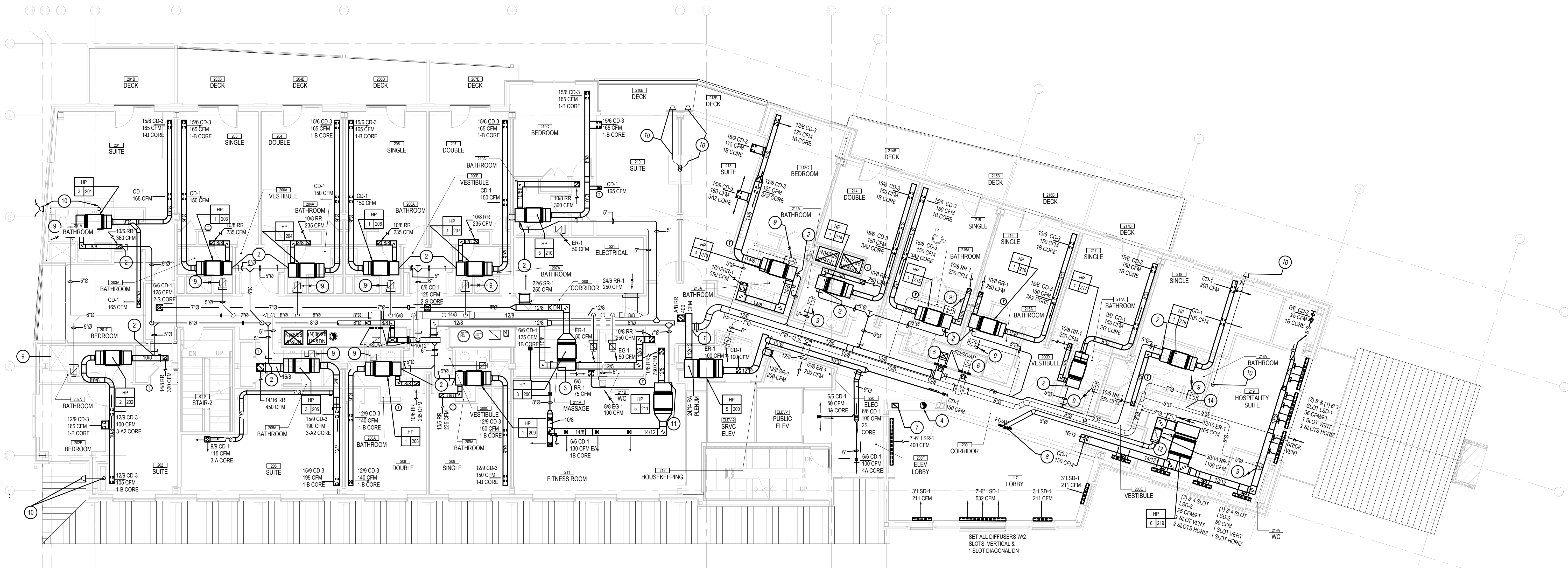
SECOND FLOOR PLAN -
DUCTWORK

DRAWING

M-3A



HP MOUNTING DETAIL
SCALE : NOT TO SCALE



SECOND FLOOR PLAN — DUCTWORK
SCALE : 1/8" = 1'-0"

NOTES :

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2. COORDINATE FINAL AIR DEVICE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN, LIGHTING PLAN, FIRE PROTECTION AND SPRINKLERS.
3. PROVIDE COMBINATION FIRESMOKE DAMPERS IN ALL DUCTS PENETRATING RATED WALL & FLOOR ASSEMBLIES.

DRAWING NOTES :

1. CONNECT 126 OA DUCT TO RETURN DUCT AND BALANCE TO 300 CFM.
2. CONNECT 5'0" OA DUCT TO UNIT RETURN AIR PLENUM AND BALANCE TO 50 CFM.
3. CONNECT 106OA DUCT TO UNIT RETURN AIR PLENUM AND BALANCE TO 250 CFM.
4. X" 10 DOUBLE WALL FIRE PLACE FLUE UP & DN. REFER TO PLAN 1M-2 & 1M-4 FOR CONTINUATION.
5. RTU-1A 148 OA DUCT UP. REFER TO PLAN 1M-4 FOR CONTINUATION.
6. 12'10" EA DUCT UP. REFER TO PLAN 1M-4 FOR CONTINUATION.
7. 12'9" EA DUCT UP. REFER TO PLAN 1M-4 FOR CONTINUATION.
8. 8'0" OA DUCT FROM ABOVE W/FID IN FLOOR. REFER TO PLAN 1M-4 FOR CONTINUATION.
9. EXHAUST 50 CFM THROUGH A 68 ER-1 IN BATHROOM.
10. INSTALL FIRE PLACE DOUBLE WALL VENT PIPE FROM FIRE PLACE UNIT TO HORIZONTAL TERMINATION CAP. INSTALL CAP, FLUE & CAP FURNISHED BY GC. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
11. CONNECT 7'0" OA DUCT TO UNIT RETURN AIR PLENUM AND BALANCE TO 150 CFM.
12. CONNECT OA DUCT TO RA DUCT. BALANCE TO 215 CFM.
13. ALL FLEX CONNECTIONS TO PLENUMS IN THIS SPACE ARE TO BE 7" Ø.
14. CONNECT 5' Ø SS TO RANGE HOOD EXHAUST OUTLET & EXTEND DUCT TO BRICK VENT.

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3	ISSUE FOR CONSTRUCTION	02.28.2019
2	COMMISSIONING COMMENTS	01.23.2019
1	PERMIT SET	07.25.2018
1	90% PRICING SET	06.18.2018

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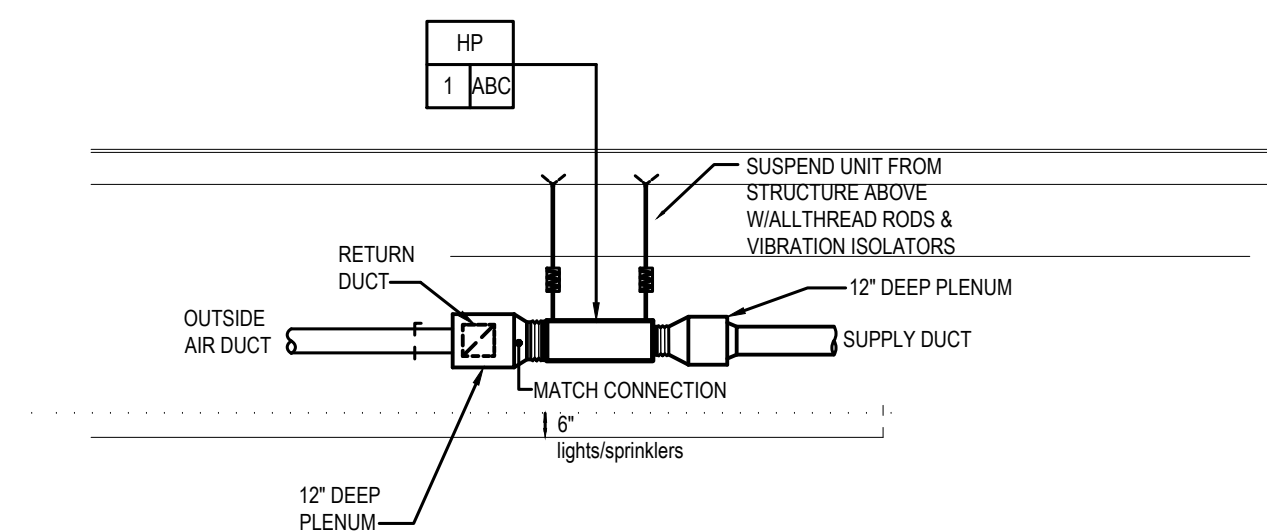
PROJECT #:	140145.001
FILENAME:	
DRAWN:	WFW
CHECKED:	WFW
DATE:	07/25/18

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02-28-2019

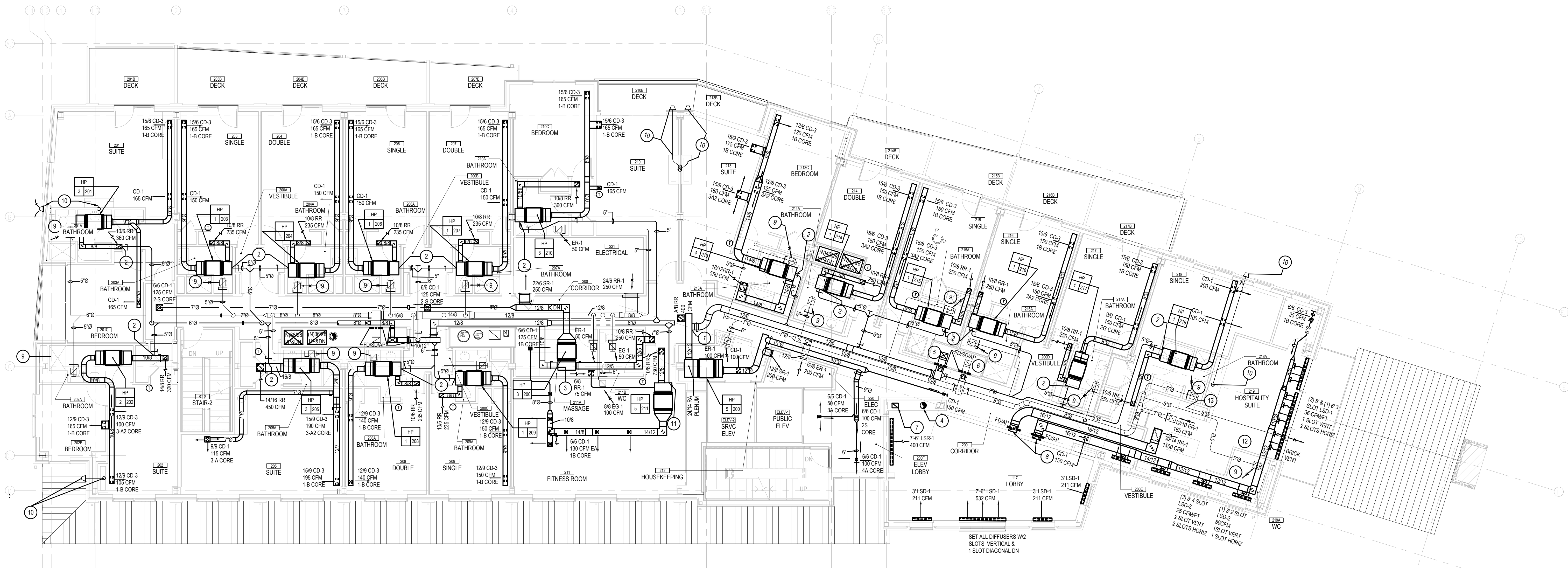
SECOND FLOOR PLAN -
DUCTWORK

DRAWING

M-3



HP MOUNTING DETAIL
SCALE : NOT TO SCALE



SECOND FLOOR PLAN — DUCTWORK
SCALE : 1/8" = 1'-0"

NOTES :

1. REFER TO DRAWING MPE-1 FOR HVAC, PLUMBING/FIRE PROTECTION & ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS & DRAWING LIST.
2. COORDINATE FINAL AIR DEVICE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN, LIGHTING PLAN, FIRE PROTECTION AND SPRINKLERS.
3. PROVIDE COMBINATION FIRE/SMOKE DAMPERS IN ALL DUCTS PENETRATING RATED WALL & FLOOR ASSEMBLIES.

DRAWING NOTES :

1. CONNECT 126 OA DUCT TO RETURN DUCT AND BALANCE TO 300 CFM.
2. CONNECT 5'0" OA DUCT TO UNIT RETURN AIR PLENUM AND BALANCE TO 50 CFM.
3. CONNECT 106OA DUCT TO UNIT RETURN AIR PLENUM AND BALANCE TO 250 CFM.
4. X" ID DOUBLE WALL FIRE PLACE FLUE UP & DN. REFER TO PLAN 1M-2 & 1M-4 FOR CONTINUATION.
5. RTU-1A 148 OA DUCT UP. REFER TO PLAN 1M-4 FOR CONTINUATION.
6. 12'10" EA DUCT UP. REFER TO PLAN 1M-4 FOR CONTINUATION.
7. 12'9" EA DUCT UP. REFER TO PLAN 1M-4 FOR CONTINUATION.
8. 16'12" SUPPLY & RETURN DUCTS UP W/IFD IN FLOOR. REFER TO PLAN 1M-4 FOR CONTINUATION.
9. EXHAUST 50 CFM THROUGH A 68 ER-1 IN BATHROOM.
10. INSTALL FIRE PLACE DOUBLE WALL VENT PIPE FROM FIRE PLACE UNIT TO HORIZONTAL TERMINATION CAP. INSTALL CAP, FLUE & CAP FURNISHED BY GC. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
11. CONNECT 7'0" OA DUCT TO UNIT RETURN AIR PLENUM AND BALANCE TO 150 CFM.
12. ALL FLEX CONNECTIONS TO PLENUMS IN THIS SPACE ARE TO BE 7'0"
13. CONNECT 5'0" SS TO RANGE HOOD EXHAUST OUTLET & EXTEND DUCT TO BRICK VENT.

274 SOUTH RIVER ROAD
NEW HOPE, PA 18938

274 SOUTH RIVER ROAD
NEW HOPE, PA 18938

OWNER/ OPERATOR:
GATEWAY TO NEW HOPE, LLC
274 South River Road
New Hope, PA 18938

ARCHITECT:
STOKES ARCHITECTURE
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Philadelphia, PA 19103
tel: (215) 523-9190

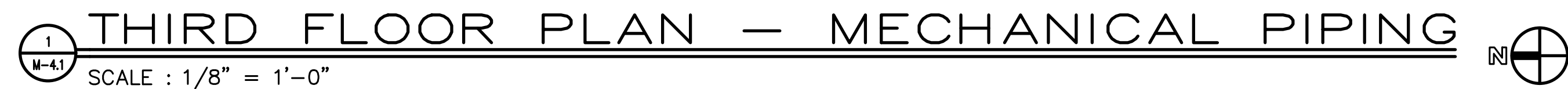
INTERIOR DESIGNER
LONGUE DESIGN INC
707 Matsonford Road
Villanova, PA 19085
tel: (610) 525-7593
fax: (610) 525-7594

CIVIL ENGINEER:
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STRUCTURAL ENGINEER:
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MEP ENGINEER:
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Philadelphia, PA 19106
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fax: (215) 627-8240

LIGHTING DESIGNER
AN ORTER LIGHTING DESIGN LLC
 227 W. 29th St 8th Floor
 New York, NY 10001
 tel: (646) 502-7568



- 1- REFER TO DRAWING MPE-1 FOR HVAC, PLUMBING/FIRE PROTECTION & ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS & DRAWING LIST.
- 2- SLOPE ALL CONDENSATE DRAIN PIPING TO RISER AT $\frac{1}{4}$ " SLOPE.
- 3- FINAL REFRIGERANT PIPING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.

- 1 MAIN BOILER CONTROLLER BOX FOR CU2. RUN REFRIGERANT GAS AND LIQUID PIPING TO AND FROM HP'S ON GRADE LEVEL. TO MAIN BOILER CONTROLLER FOR CU2. MC TO PROVIDE AN INSULATED GALVANIZED STEEL, DRAIN PAN W/ DRAIN PIPE BELOW BOILER CONTROLLER BOX.
- 2 SUB BOILER CONTROLLER BOX FOR CU2. RUN REFRIGERANT GAS AND LIQUID PIPING TO AND FROM HP'S ON PENTHOUSE LEVEL. TO SUB BOILER CONTROLLER FOR CU2. MC TO PROVIDE AN INSULATED GALVANIZED STEEL, DRAIN PAN W/ DRAIN PIPE BELOW BOILER CONTROLLER BOX.
- 3 REFRIGERANT GAS AND LIQUID PIPING UP TO HP ON PENTHOUSE LEVEL.
- 4 REFRIGERANT GAS AND LIQUID PIPING UP TO HP'S ON GRADE LEVEL.
- 5 MULTIPLE REFRIGERANT GAS AND LIQUID PIPING TO HP ON THIS LEVEL.
- 6 REFRIGERANT GAS AND LIQUID PIPING TO HP ON THIS LEVEL.
- 7 REFRIGERANT GAS AND LIQUID PIPING DOWN TO SECOND FLOOR. REFER TO PLAN 1/8"=1'-0" FOR CONTINUATION.

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THIRD FLOOR
PLAN -
MECHANICAL PIPING

DRAWING

M-4.1A

RIVERHOUSE AT
Odette's

274 SOUTH RIVER ROAD
NEW HOPE, PA 18838

OWNER/ OPERATOR:
GATEWAY TO NEW HOPE, LLC
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New Hope, PA 18838

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MEP ENGINEER:
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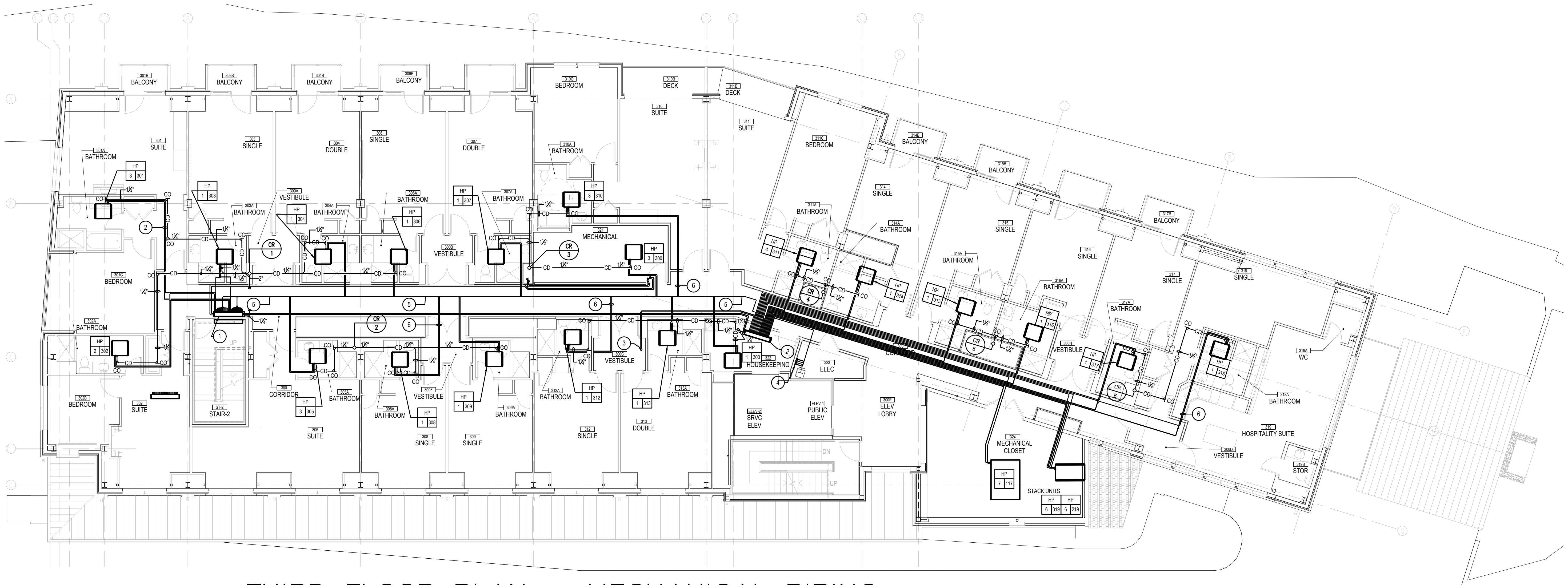
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THIRD FLOOR
PLAN -
MECHANICAL PIPING

DRAWING

M-4.1



1 THIRD FLOOR PLAN — MECHANICAL PIPING
SCALE : 1/8" = 1'-0"

NOTES :

1. REFER TO DRAWING MPE-1 FOR HVAC, PLUMBING/FIRE PROTECTION & ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS & DRAWING LIST.
2. SLOPE ALL CONDENSATE DRAIN PIPING TO RISER AT 1/4" SLOPE.
3. FINAL REFRIGERANT PIPING SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS.

DRAWING NOTES :

1. MAIN BC CONTROLLER BOX FOR CU-2. RUN REFRIGERANT GAS AND LIQUID PIPING TO AND FROM HPS ON GRADE LEVEL TO MAIN BC CONTROLLER FOR CU-2. MC TO PROVIDE AN INSULATED GALVANIZED STEEL DRAIN PAN W/ DRAIN PIPE BELOW BC CONTROLLER BOX.
2. SUB BC CONTROLLER BOX FOR CU-2. RUN REFRIGERANT GAS AND LIQUID PIPING TO AND FROM HPS ON PENTHOUSE LEVEL TO SUB BC CONTROLLER FOR CU-2. MC TO PROVIDE AN INSULATED GALVANIZED STEEL DRAIN PAN W/ DRAIN PIPE BELOW BC CONTROLLER BOX.
3. REFRIGERANT GAS AND LIQUID PIPING UP TO HP ON PENTHOUSE LEVEL.
4. REFRIGERANT GAS AND LIQUID PIPING DN HPS ON GRADE LEVEL.
5. MULTIPLE REFRIGERANT GAS AND LIQUID PIPING TO HP ON THIS LEVEL.
6. REFRIGERANT GAS AND LIQUID PIPING TO HP ON THIS LEVEL.

RIVERHOUSE AT Odette's

274 SOUTH RIVER ROAD
NEW HOPE, PA 18938

OWNER/ OPERATOR:
GATEWAY TO NEW HOPE, LLC
274 South River Road
New Hope, PA 18938

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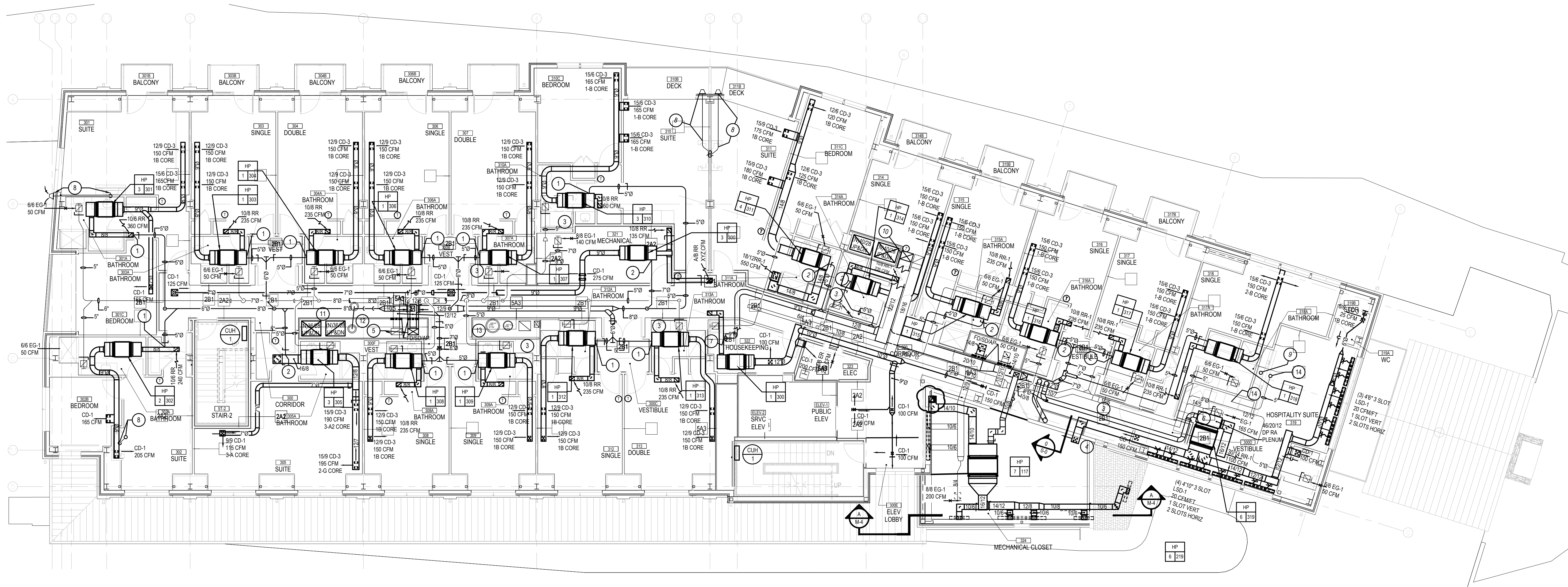
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THIRD FLOOR
PLAN - DUCTWORK

DRAWING

M-4A



THIRD FLOOR PLAN — DUCTWORK

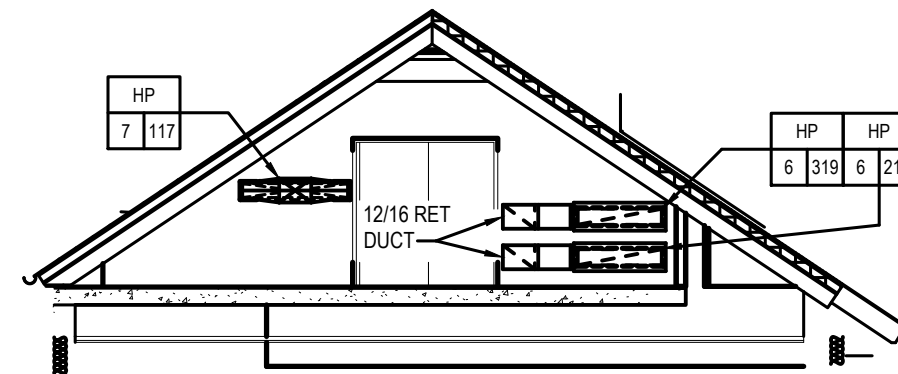
SCALE : 1/8" = 1'-0"

NOTES :

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- PROVIDE COMBINATION FIRE/SMOKE DAMPERS IN ALL DUCTS PENETRATING RATED WALL & FLOOR ASSEMBLIES.

DRAWING NOTES :

- CONNECT OA DUCT TO RA DUCT, BALANCE TO 50 CFM
- CONNECT OA DUCT TO RA DUCT, BALANCE TO 140 CFM
- 66 EG-1, 50 CFM
- CD-1, 150 CFM
- RTU-1 2014 OA & 2012 EA DUCT UP, OA & EA DUCT DN
- CONNECT OA DUCT TO RA DUCT, BALANCE TO 215 CFM
- CONNECT OA DUCT TO RA DUCT, BALANCE TO 300 CFM
- INSTALL FIRE PLACE DOUBLE WALL VENT PIPE FROM FIRE PLACE UNIT TO HORIZONTAL TERMINATION CAP. INSTALL CAP, FLUE & CAP FURNISHED BY GC. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
- INSTALL FIRE PLACE DOUBLE WALL VENT PIPE FROM FIRE PLACE UNIT TO HORIZONTAL TERMINATION CAP. INSTALL CAP, FLUE & CAP FURNISHED BY GC. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
- TRANSITION 22/12 OA DUCT TO 16/22 IN VERTICAL. SEE PLAN 1M-5 FOR CONTINUATION AND CLARIFICATION.
- RTU-2 SUPPLY AND RETURN RISERS
- EF-X RISER
- 27/18 RISER FROM MAIN KITCHEN HOOD 1 UP TO EF-1, 18/18 RISER MAIN KITCHEN HOOD 2 TO EF-2, 22" X 18" TOILET ROOM AND GENERAL EXHAUST RISER FROM FIRST FLOOR TO EF-4, 12" X 8" ALUMINUM RISER FROM DISHWASHER HOOD TO EF-3
- CONNECT 5" Ø SS TO RANGE HOOD EXHAUST OUTLET & EXTEND DUCT UP TO ROOF CAP.



SECTION A-A

SCALE : 1/8" = 1'-0"

RIVERHOUSE AT Odette's

274 SOUTH RIVER ROAD
NEW HOPE, PA 18938

OWNER/ OPERATOR:
GATEWAY TO NEW HOPE, LLC
274 South River Road
New Hope, PA 18938

ARCHITECT:
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111 S. Independence Mall East Suite 950
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tel: (215) 925-3788

MEP ENGINEER:
WICK FISHER WHITE
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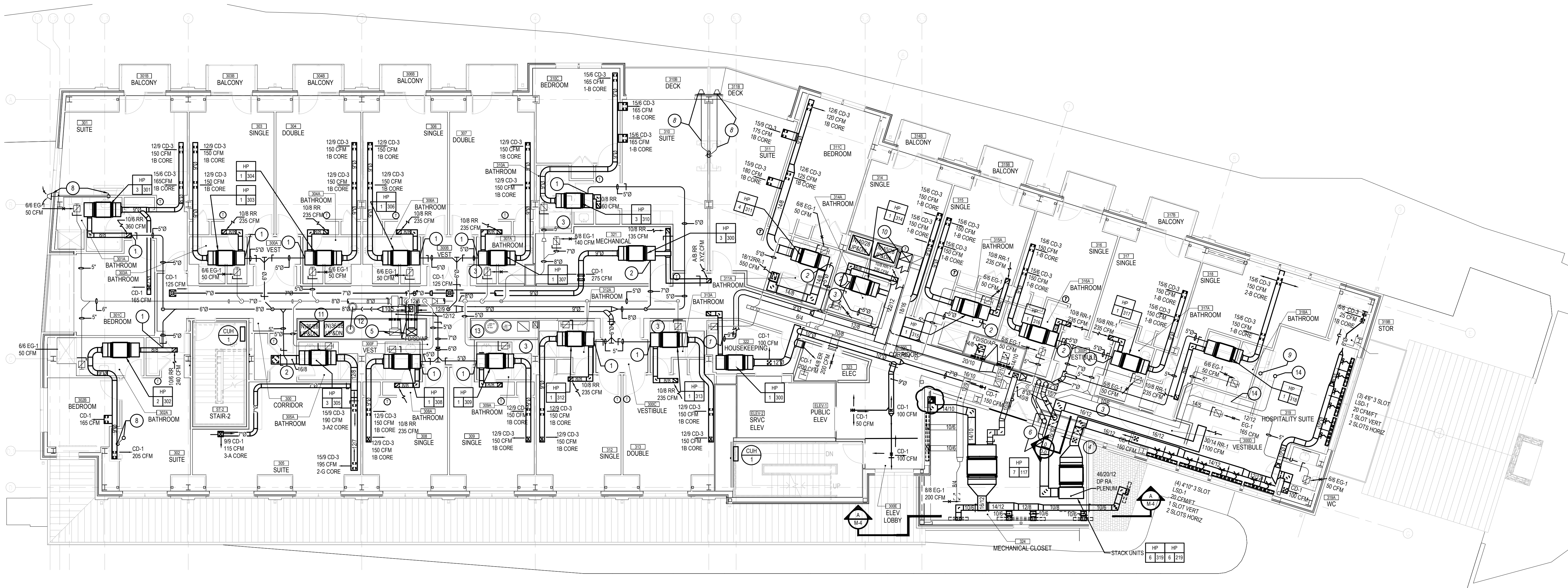
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THIRD FLOOR
PLAN - DUCTWORK

DRAWING

M-4



THIRD FLOOR PLAN — DUCTWORK

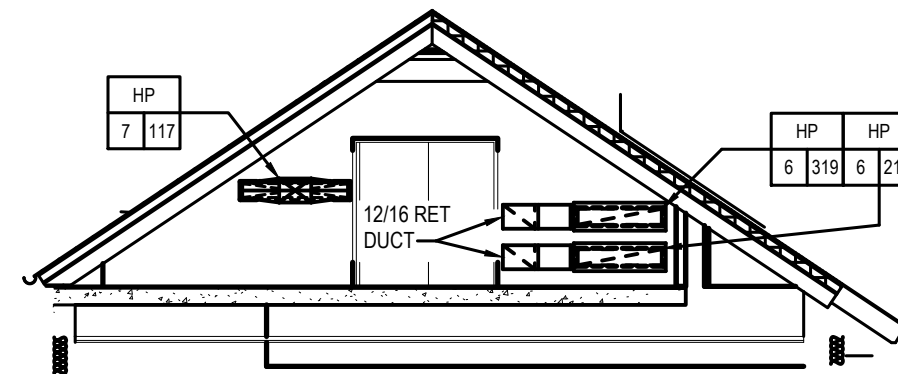
SCALE : 1/8" = 1'-0"

NOTES :

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- COORDINATE FINAL AIR DEVICE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN, LIGHTING PLAN, FIRE PROTECTION AND SPRINKLERS.
- PROVIDE COMBINATION FIRE/SMOKE DAMPERS IN ALL DUCTS PENETRATING RATED WALL & FLOOR ASSEMBLIES.

DRAWING NOTES :

- CONNECT OA DUCT TO RA DUCT. BALANCE TO 50 CFM
- CONNECT OA DUCT TO RA DUCT. BALANCE TO 140 CFM
- 66 EG-1, 50 CFM
- CD-1, 150 CFM
- RTU-1 2014 OA & 2012 EA DUCT UP. 'OA & EA DUCT DN
- CONNECT OA DUCT TO RA DUCT. BALANCE TO 215 CFM
- CONNECT OA DUCT TO RA DUCT. BALANCE TO 300 CFM
- INSTALL FIRE PLACE DOUBLE WALL VENT PIPE FROM FIRE PLACE UNIT TO HORIZONTAL TERMINATION CAP. INSTALL CAP FLUE & CAP FURNISHED BY GC. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
- INSTALL FIRE PLACE DOUBLE WALL VENT PIPE FROM FIRE PLACE UNIT TO TERMINATION CAP ON ROOF ABOVE. INSTALL CAP FLUE & CAP FURNISHED BY GC. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
- TRANSITION 22/12 OA DUCT TO 16/22 IN VERTICAL. SEE PLAN 1M-5 FOR CONTINUATION AND CLARIFICATION.
- RTU-2 SUPPLY AND RETURN RISERS
- EF-X RISER
- 21/3 RISER FROM MAIN KITCHEN HOOD 1 UP TO EF-1. 16/3 RISER MAIN KITCHEN HOOD 2 TO EF-2. 22' X 18" TOILET ROOM AND GENERAL EXHAUST RISER FROM FIRST FLOOR TO EF-4. 12' X 8" ALUMINUM RISER FROM DISHWASHER HOOD TO EF-3
- CONNECT 5" Ø SS TO RANGE HOOD EXHAUST OUTLET & EXTEND DUCT UP TO ROOF CAP.



SECTION A-A

SCALE : 1/8" = 1'-0"

RIVERHOUSE AT
Odette's

274 SOUTH RIVER ROAD
NEW HOPE, PA 18938

OWNER/ OPERATOR:
GATEWAY TO NEW HOPE, LLC
274 South River Road
New Hope, PA 18938

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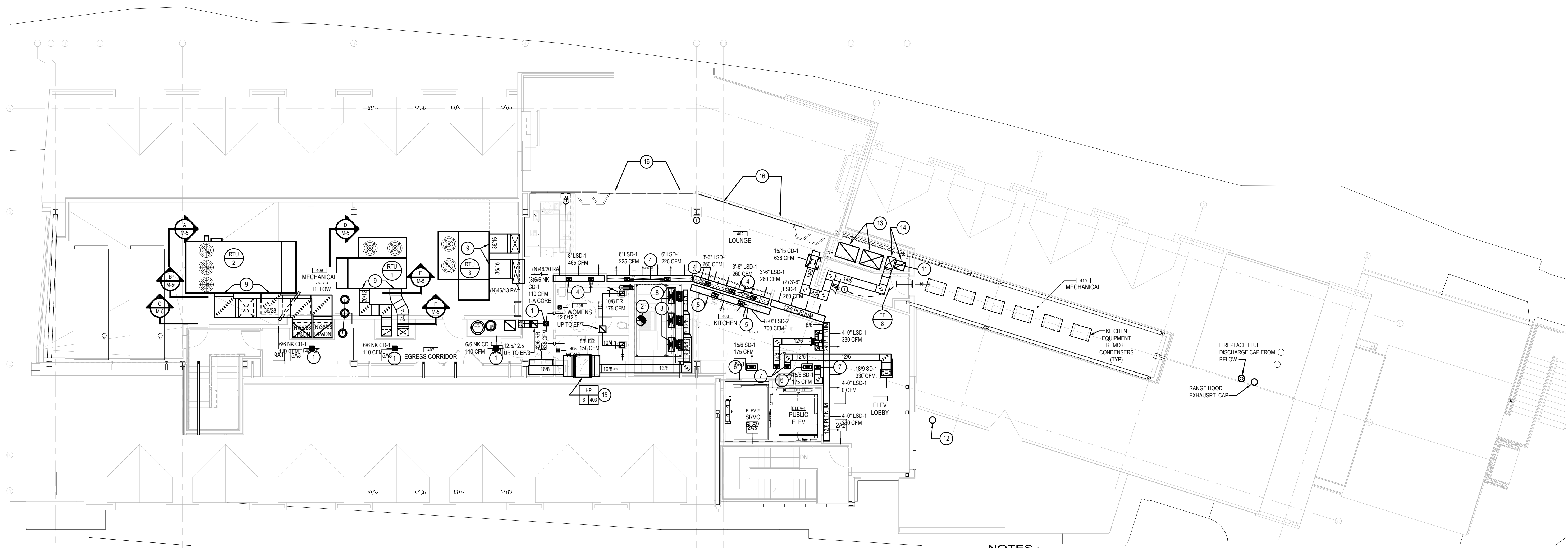
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NOTES :

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2. COORDINATE FINAL AIR DEVICE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN, LIGHTING PLAN, FIRE PROTECTION AND SPRINKLERS.
3. HVAC SYSTEM DESIGN FOR LOUNGE 402 IS CALCULATED WITH DOORS CLOSED. SPACE DESIGN TEMPERATURES WILL NOT BE MAINTAINED IF PATIO DOORS ARE LEFT OPEN.
4. PROVIDE COMBINATION FIRE/SMOKE DAMPERS IN ALL DUCTS PENETRATING RATED WALL & FLOOR ASSEMBLIES.

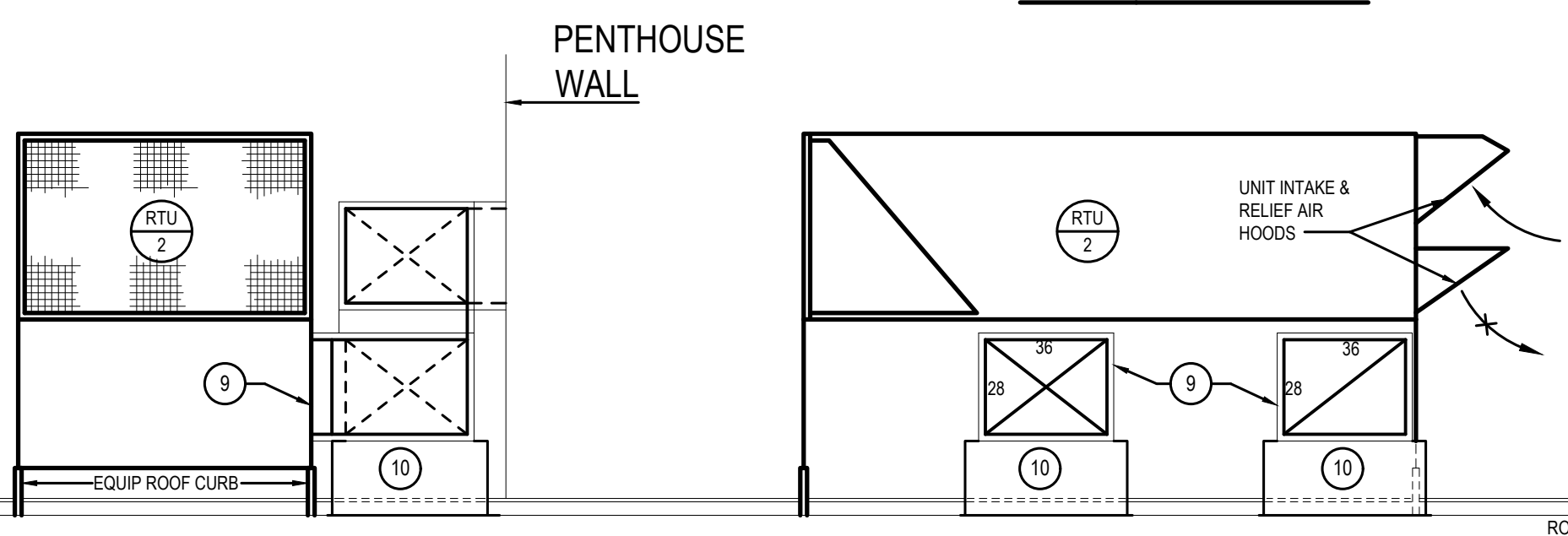
DRAWING NOTES :

1. RTU-3: 6/6 UP THRU ROOF, REFER TO PLAN 1M-6 FOR CONTINUATION.
2. EF-6: 18" RANGE HOOD EXHAUST DUCT UP THROUGH ROOF. REFER TO PLAN 1M-6 FOR CONTINUATION.
3. MAU-3: 20" HOOD MAKE-UP AIR DUCT UP THROUGH ROOF. REFER TO PLAN 1M-6 FOR CONTINUATION.
4. RTU-3: 10/6 SUPPLY DUCT FROM 12/6 PLENUM UP THROUGH ROOF. REFER TO PLAN 1M-6 FOR CONTINUATION.
5. RTU-3: 12/6 SUPPLY DUCT FROM 12/6 PLENUM UP THROUGH ROOF. REFER TO PLAN 1M-6 FOR CONTINUATION.
6. RTU-3: 15/6 SUPPLY DUCT FROM DIFFUSER NECK TRANSITION TO 6/6 AND RISE THROUGH ROOF. REFER TO PLAN 1M-6 FOR CONTINUATION.
7. RTU-3: 12/6 SUPPLY DUCT UP THROUGH ROOF. REFER TO PLAN 1M-6 FOR CONTINUATION.
8. HP-6-403: XY SUPPLY DUCT - CONNECT TO HOOD CONNECTIONS.
9. RTU-3: CONNECT SUPPLY & RETURN DUCTS TO UNIT PLENUM CURB.
10. DUCT/EQUIPMENT SUPPORT RAILS.
11. TRANSITION FROM 16/22 TO 22/12 IN VERTICAL DOWNSTREAM OF 14/9 TAKEOFF. SEE PLAN 1M-4 FOR CONTINUATION AND CLARIFICATION.
12. INSTALL FIRE PLACE DOUBLE WALL VENT PIPE FROM LOBBY FIRE PLACE UNIT TO TERMINATION CAP. INSTALL INDUCTION FAN AND CAP. FLUE, FAN & CAP FURNISHED BY GC. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
13. RTU-4: 40/28 SUPPLY & RETURN DUCTS UP THROUGH ROOF W/ WIRE DAMPERS & ACCESS DOORS. REFER TO PLAN 1M-6 FOR CONTINUATION.
14. RTU-1A: 16/22 SUPPLY & 18/19 RETURN DUCTS UP THROUGH ROOF W/ WIRE DAMPERS & ACCESS DOORS. REFER TO PLAN 1M-6 FOR CONTINUATION.
15. RUN REFRIGERANT GAS AND LIQUID PIPING TO AND FROM HP'S ON PENTHOUSE LEVEL TO SUB-B/C CONTROLLER FOR CU-2 ON THIRD FLOOR. FINAL REFRIGERANT PIPING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.

15. WALL WINDOW SENSOR. PROVIDE AND INSTALL A WIRED KADTRONIX HVAC SMART RELAY SWITCH (HRSR). INTEGRATE THE 24V CONTACT DIRECTLY TO THE UG000 CONTROLLER SUCH THAT WHEN THE WALL WINDOW IS OPENED, THE CORRESPONDING RTU WILL BECOME IDLE (SHUTDOWN). CONTROLLER CAN MONITOR A MAXIMUM OF FIVE (5) RELAY SWITCHES. REFER TO SEQUENCE OF OPERATIONS FOR FURTHER CLARIFICATION.

PENTHOUSE PLAN — MECHANICAL

SCALE : 1/8" = 1'-0"

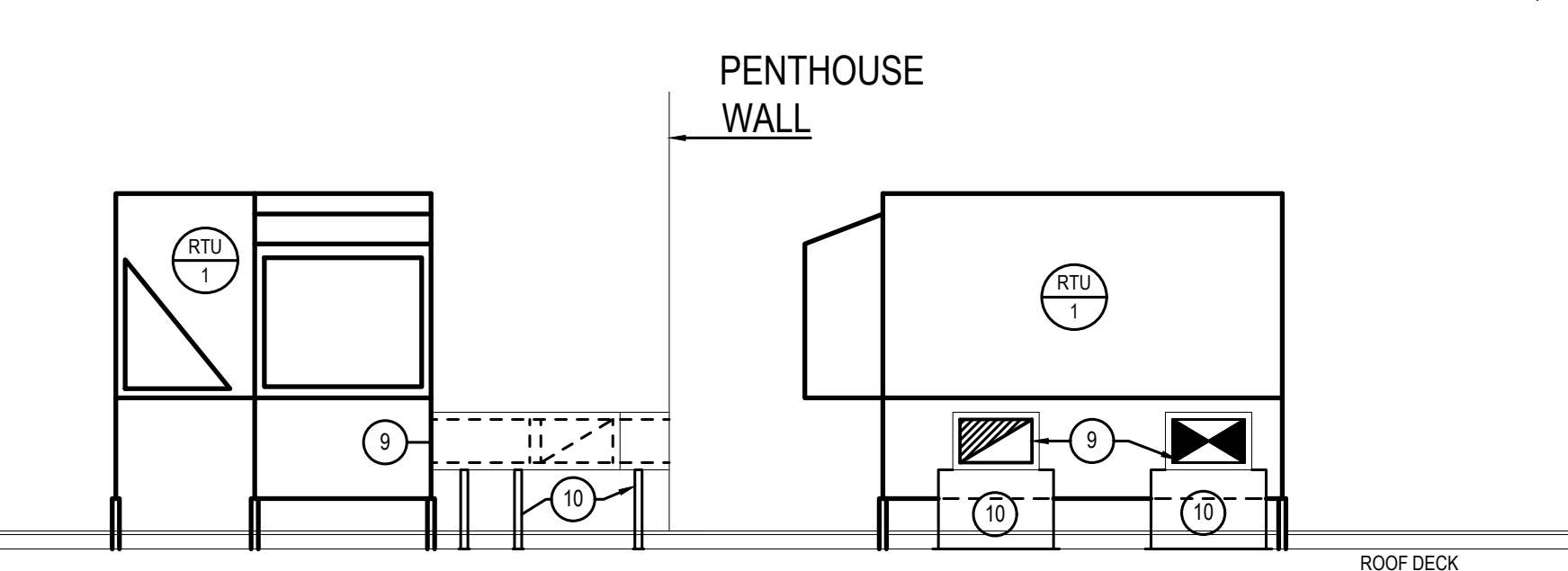


SECTION A-A

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

SECTION B-B

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

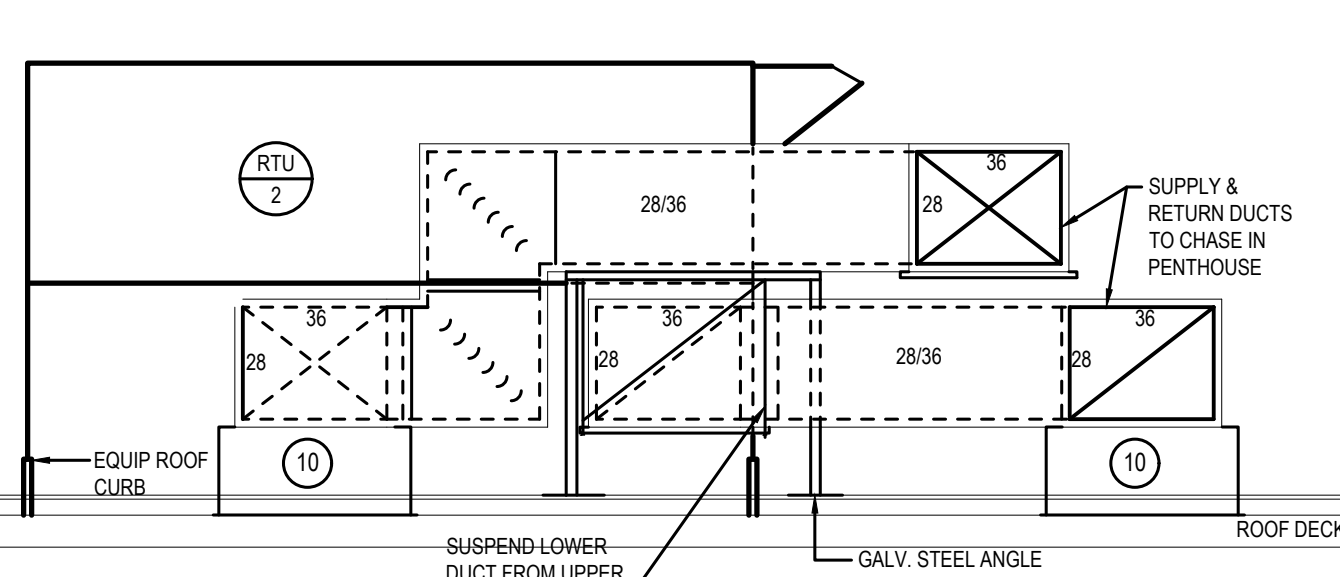


SECTION D-D

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

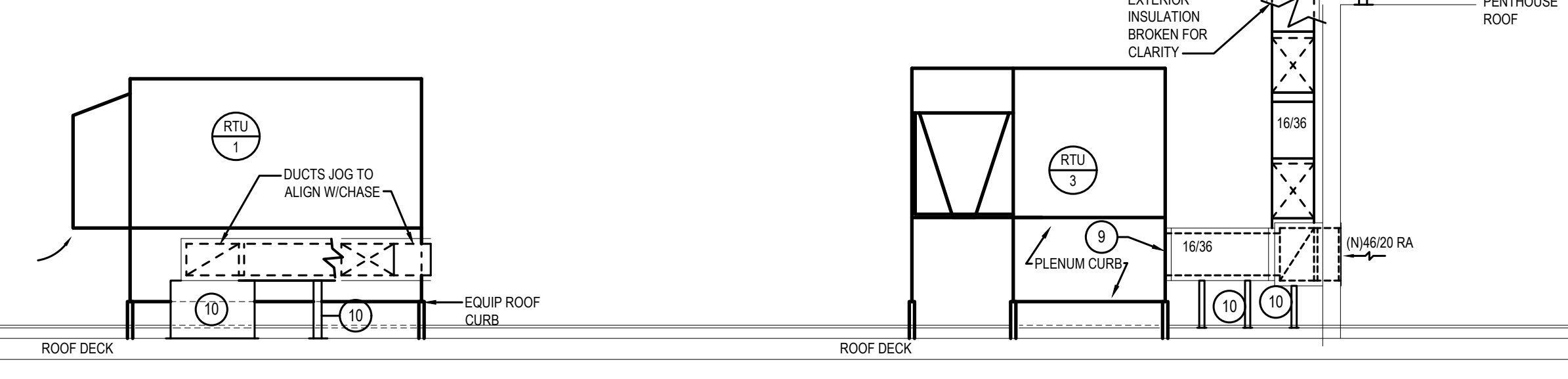
SECTION E-E

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



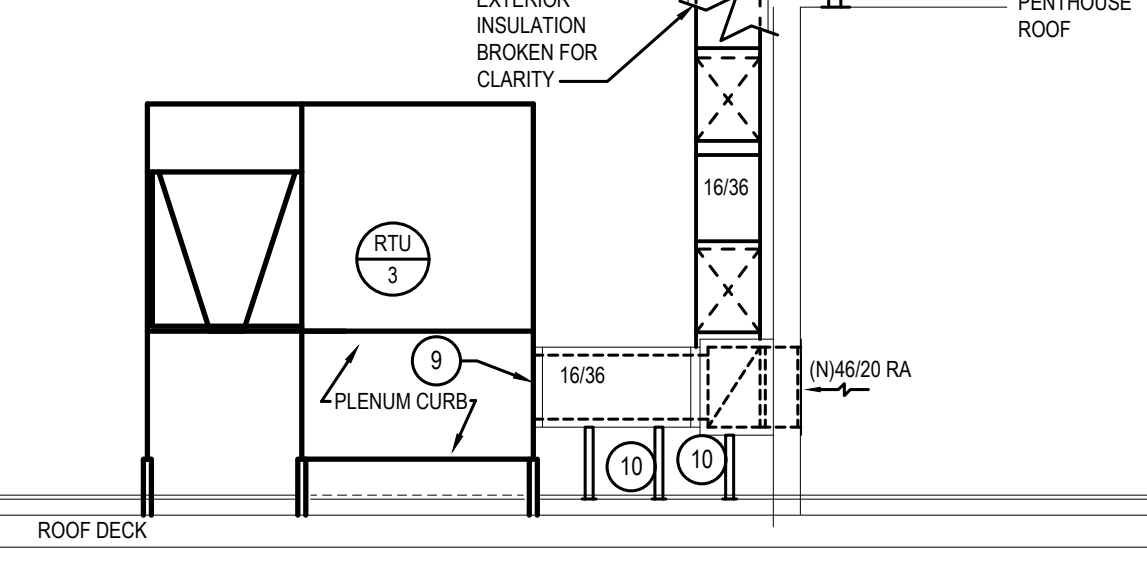
SECTION C-C

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



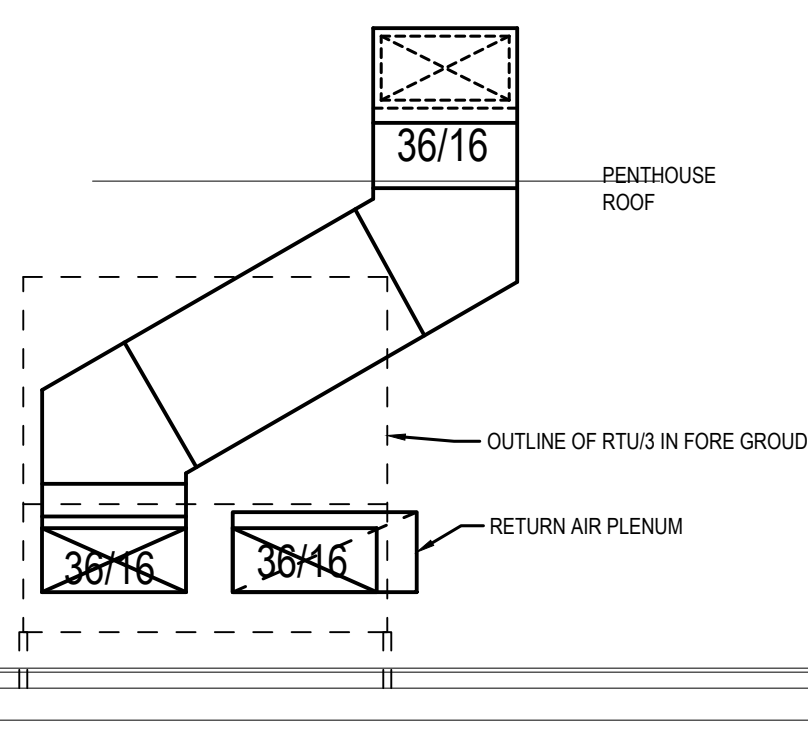
SECTION F-F

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



SECTION G-G

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



SECTION H-H

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

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PROJECT #	140145.001
FILENAME:	WFW
DRAWN:	WFW
CHECKED:	WFW
DATE:	07/25/18

MARK	REVISIONS	DATE
3	COMMISSIONING COMMENTS	01.23.2019
2	PERMIT SET	07.25.2018
1	90% PRICING SET	06.18.2018

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--

ISSUE FOR CONSTRUCTION
02-28-2019

PENTHOUSE PLAN -
MECHANICAL

DRAWING

M-5

RIVERHOUSE AT Odette's

274 SOUTH RIVER ROAD
NEW HOPE, PA 18838

OWNER/ OPERATOR:
GATEWAY TO NEW HOPE, LLC
274 South River Road
New Hope, PA 18838

ARCHITECT:
STOKES ARCHITECTURE
2103 Sansom Street
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ASSOCIATES, LLC
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MEP ENGINEER:
WICK FISHER WHITE
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3	ISSUE FOR CONSTRUCTION	02/28/2019
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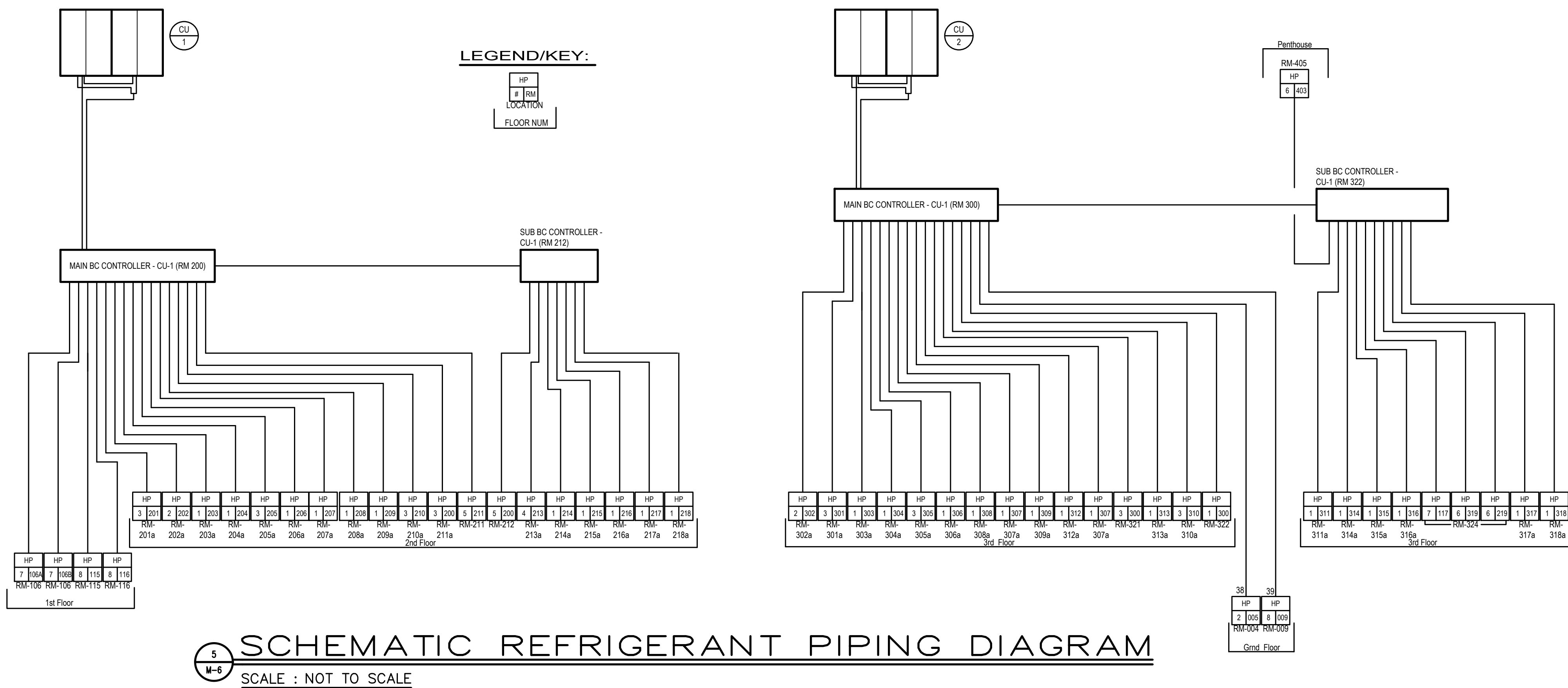
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ROOF PLAN -
MECHANICAL

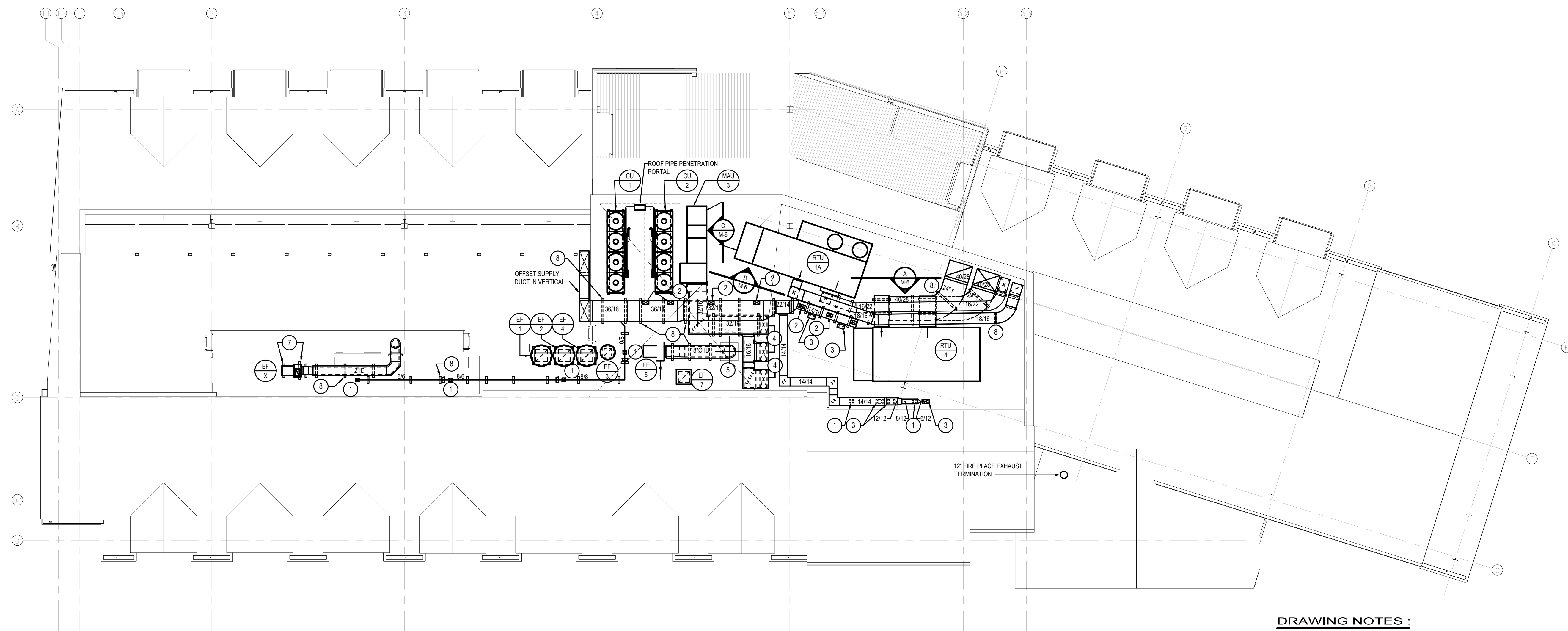
DRAWING

M-6



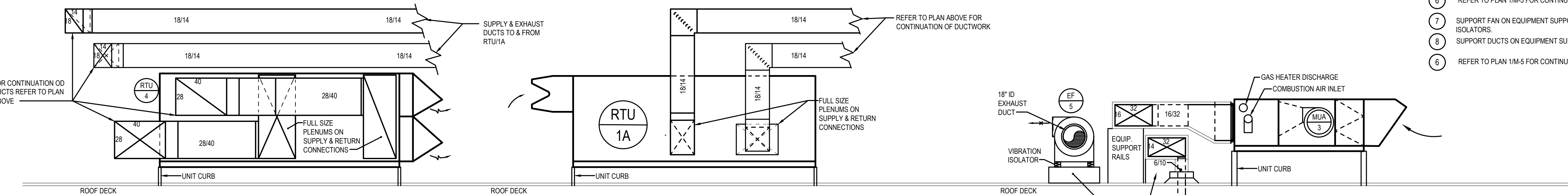
SCHEMATIC REFRIGERANT PIPING DIAGRAM

SCALE : NOT TO SCALE



ROOF PLAN — MECHANICAL

SCALE : 1/8" = 1'-0"



SECTION A-A

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

SECTION B-B

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

SECTION C-C

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

DRAWING NOTES :

- RTU-3: 6/8 DN THROUGH ROOF. REFER TO PLAN 1M-5 FOR CONTINUATION.
- RTU-3: 10/6 DN THROUGH ROOF. REFER TO PLAN 1M-5 FOR CONTINUATION.
- RTU-3: 12/6 DN THROUGH ROOF. REFER TO PLAN 1M-5 FOR CONTINUATION.
- MAU-3: 28/12 DN TO RANGE HOOD IN PENTHOUSE. (TYP FOR 3) REFER TO PLAN 1M-5 FOR CONTINUATION.
- EF-5: 18/0 (ID) DN TO RANGE HOOD IN PENTHOUSE. REFER TO PLAN 1M-5 FOR CONTINUATION.
- REFER TO PLAN 1M-5 FOR CONTINUATION.
- SUPPORT FAN ON EQUIPMENT SUPPORT RAILS AND VIBRATION ISOLATORS.
- SUPPORT DUCTS ON EQUIPMENT SUPPORT RAILS.
- REFER TO PLAN 1M-5 FOR CONTINUATION.

NOTES :

- REFER TO DRAWING MPE-1 FOR HVAC, PLUMBING/FIRE PROTECTION & ELECTRICAL GENERAL NOTES, ABBREVIATIONS, LEGENDS & DRAWING LIST.
- FINAL REFRIGERANT PIPING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- PROVIDE COMBINATION FIRE/SMOKE DAMPERS IN ALL DUCTS PENETRATING RATED WALL & FLOOR ASSEMBLIES.

ROOFTOP UNIT SCHEDULE																																					
UNIT NO.	SERIES	TYPE	COOLING				SUPPLY FAN SECTION					RETURN/EXHAUST FAN SECTION					EVAPORATOR COIL				GAS HEAT SECTION		CONDENSING SECTION		CONDENSING FAN		ELECTRIC SERVICE			WEIGHT Lbs.	BASIS OF DESIGN	REMARKS					
			SEER MBH	TOTAL MBH	NOMINAL TONS	EFFICIENCY EER	CFM	MIN. O.A. CFM	RPM	ESP IN. WG.	TSP IN. WG.	BRHP	CFM	ESP IN. WG.	TSP IN. WG.	RPM	BRHP	NO. OF ROWS	E.A.T. (T) DBWB	L.A.T. (T) DBWB	REFRIGERANT TYPE	MBH INPUT	MBH OUTPUT	NO. OF COMP.	FLA EA COMP.	WV	NO. OF MOTORS	FLA (TOTAL)	VOLTAGE				MCA	MROPD			
RTU-1	NORTH WING GUEST ROOMS-CA	ROOFTOP	815	130.8	12	11.2	2,614	2,614	2,223	2.0	3.5	2,241.0	1,690	2.0	-	2,200	1.51/23	4	82.1/819	91.5/915	R-410A	200	160	2	54/139	63	2	1.8	460/60/3	24.8	30	2,610	DANN DP501A	① ②			
RTU-1A	SOUTH WING GUEST ROOMS-CA	ROOFTOP	717	121.6	10	11.6	2,688	2,688	2,541	2.0	3.37	2,217.10	2,080	2.0	3.35	2,087	2.12/130	6	80.8/860	92.5/925	R-410A	150	130	2	6.8/719	10.6	2	2.1	460/60/3	33.5	40	3,385	TRANE HORIZON	① ④			
RTU-2	BALLROOM	ROOFTOP	315.7	381.9	35	10.1	12,000	2,430	1,860	2.0	3.39	10,717.5	9,900	0.5	-	-	-	110	6	79.9/850	94.9/944	R-410A	300	240	3	22.8/166/131	29.9	3	2.0	460/60/3	83.5	100	4,381	DANN WP303F	① ③		
RTU-3	PENTHOUSE	ROOFTOP	137.52	178.33	15	10.8	4,800	1,030	1,565	2.0	2.4	23/43	4,800	0.75	-	1,665	15/40	6	81.2/868	89.3/893	R-410A	300	240	2	7.9/118	14.0	2	1.8	460/60/3	33.7	45	2,711	DANN DP515A	① ③			
RTU-4	BAR/DINING ROOM	ROOFTOP	319.9	360.0	35	13.6	12,000	2,135	791	2.0	2.9	10.9/15	12,000	0.75	-	-	-	110	6	78.5/850	95.1/941	R-410A	350	280	3	14.1/182/192	41.6	3	3.5	460/60/3	89.4	100	4,981	TRANE YD420	① ③		

ROOFTOP UNIT SCHEDULE NOTES:

- PROVIDE UNIT WITH SOLID DOUBLE-WALL CONSTRUCTION (R-7 MINIMUM), SUPPLY FAN VFD OR ECM MOTOR, 100% MODULATING EXHAUST FAN W/VED OR ECM MOTOR, COMBINATION 2"X4" FILTER RACK, SPRING ISOLATED FANS, MODULATING HOT GAS RE-HEAT, MODULATING GAS HEAT WITH SS HEAT EXCHANGER, SS DRAIN PAN, VARIABLE SPEED COMPRESSOR, PHASE FAILURE CONTACTS, LOW VOLTAGE RELAYS, INTEGRAL SMOKE DETECTOR, PLENUM CURB (HEIGHT TO SUIT DUCT SIZES ON PLAN), GAS INTERFACE, 5 YEAR COMPRESSOR PARTS WARRANTY, FACTORY START-UP AND FIRST YEAR LABOR WARRANTY. PROVIDE THERMOSTAT THAT MATCHES UNIT CAPACITY CONTROL, (MODULATING).
- PROVIDE UNIT WITH ENTHALPY ENERGY RECOVERY WHEEL.
- PROVIDE UNIT WITH COMPARATIVE ENTHALPY ECONOMIZER.
- PROVIDE UNIT WITH ENTHALPY ENERGY RECOVERY WHEEL, DUTY AS LISTED IN ADJACENT SCHEDULE.

MAKE UP AIR UNIT SCHEDULE																									
UNIT NO.	TYPE	FAN SECTION							GAS HEATING SECTION				FILTERS				ELECTRIC SERVICE						WEIGHT Lbs.	BASIS OF DESIGN GREENHECK UNO	REMARKS ①
		TOTAL CFM	MIN. O.A. CFM	RPM	HP	ESP. (IN. WG.)	ESP. (IN. WG.)	EAT. (T)	LAT. (T)	MBH INPUT/OUTPUT	CFM	TYPE	AREA	FACE VELOCITY	PD	V.	Ø	H2	MCA	MOP					
MUA-1	INDOOR INDIRECT GAS FIRED	3,423	3,423	1,182	3	1.75	1.75	0"	10"	300/900	300	16.66 SQ. FT.	206	0.86	208	3	60	15.2	25	1,286	1024-1124H2	UNITS SHALL BE COMPLETE W/VAW OPERATION, VFD BY E.C., 8-1 FURNACE TURN DOWN RATIO, MERV 8 FILTERS, 1 COMPLETE SPARE SET, 1 SPARE BELT, DOUBLE WALL INSULATED GALVANIZED COATED CONSTRUCTION, CONTROL CENTER, HEAT INLET AIR SENSOR, DIRTY FILTER SWITCH, LOOSE-SERVICE RECEPTACLE, SMOKE DETECTOR SUPPLIED, INSTALLED BY E.C., TERMINAL STRIP FOR UNIT CONTROLS & NF DISC SWITCH.			
MUA-2	INDOOR INDIRECT GAS FIRED	2,054	2,054	1,572	2	1.75	1.75	0"	10"	200/600	200	DISPOSABLE	8.33 SQ. FT.	246	0.08	208	3	60	10.2	15	951	1024-109-H12	UNIT COMPLETE W/INSULATED ROOF CURB, ALUM. MESH WEATHER HOOD, DAMPERED AIR INLET, DOUBLE WALL INSULATED CASING W/INTERMATECTOR, EXTERIOR COATING, SPARE BELT AND FILTERS, CONTROL CENTER, FREEZE PROTECTION, HEAT AIR INLET SENSOR, DIRTY FILTER SWITCH, NOING SPARE CONTACTS ON STARTER TERMINAL, STRIP FOR UNIT CONTROLS, LOOSE SERVICE RECEPTACLE, SMOKE DETECTOR SUPPLIED- INSTALLED BY E.C., MOUNTING GPN-24-574-5-G12 & NF DISC SWITCH.		
MUA-3	ROOM MOUNTED INDIRECT GAS FIRED	2,494	2,494	1,348	2	0.75	0.75	0"	60"	200/600	200	13.33 SQ. FT.	187	0.07	208	3	60	10.2	15	916	1024-109-H12				

- PROVIDE THERMOSTAT THAT MATCHES UNIT CAPACITY CONTROL, (STAGES/TURNDOWN).

AIR SOURCE HEAT PUMP UNIT SCHEDULE																				
NO.	QTY	LOCATION	SERVICE	TYPE	TOTAL CFM	O.A. CFM	INDOOR FAN DATA			INDOOR BY COOL				ELECTRIC SERVICE					REMARKS	BASIS OF DESIGN
							ESP (IN. WG.)	MOTOR HP	RPM	TOTAL COOLING CAPACITY (MBH @ 81°F)	SENSIBLE COOLING MBH	HTG MBH @ 31°F	KW HEATING INPUT	V.	Ø	V.	MCA	MOCP		
HP-1	25	SEE PLANS	SEE PLANS	CEILING CONCEALED, DUCTED	300	-	0.6	-	-	5.9	5.7	4.1	0.04	208	1	60	1.05	15	-	MTSUBISHI CITY MULTI PHEV-P10BMAU-E3
HP-2	3	SEE PLANS	SEE PLANS	CEILING CONCEALED, DUCTED	371	-	0.6	-	-	11.8	8.3	8.6	0.07	208	1	60	1.20	15	-	MTSUBISHI CITY MULTI PHEV-P10BMAU-E3
HP-3	8	SEE PLANS	SEE PLANS	CEILING CONCEALED, DUCTED	494	-	0.6	-	-	14.7	11.3	10.7	0.07	208	1	60	1.45	15	-	MTSUBISHI CITY MULTI PHEV-P10BMAU-E3
HP-4	2	SEE PLANS	SEE PLANS	CEILING CONCEALED, DUCTED	600	-	0.6	-	-	17.2	13.4	12.3	0.08	208	1	60	1.56	15	-	MTSUBISHI CITY MULTI PHEV-P10BMAU-E3
HP-5	2	SEE PLANS	SEE PLANS	CEILING CONCEALED, DUCTED	883	-	0.6	-	-	23.1	19.9	17.0	0.15	208	1	60	2.73	15	-	MTSUBISHI CITY MULTI PHEV-P10BMAU-E3
HP-6	3	SEE PLANS	SEE PLANS	CEILING CONCEALED, DUCTED	883	-	0.6	-	-	28.9	23.6	21.2	0.15	208	1	60	2.78	15	-	MTSUBISHI CITY MULTI PHEV-P10BMAU-E3
HP-7	3	SEE PLANS	SEE PLANS	CEILING CONCEALED, DUCTED	1165	-	0.6	-	-	34.6	27.5	25.2	0.22	208	1	60	3.32	15	-	MTSUBISHI CITY MULTI PHEV-P10BMAU-E3
HP-8	3	SEE PLANS	SEE PLANS	CASSETTE	307	-	0.6	-	-	5.9	5.7	4.1	0.04	208	1	60	1.05	15	-	MTSUBISHI CITY MULTI PHEV-P10BMAU-E3

CONDENSING UNIT SCHEDULE																								
NO	SYSTEM	NOMINAL TONS	COOLING MBH	COOLING EFF. EER	HEATING MBH	HEATING EFF. COP	REFRIGERANT		AMBIENT AIR OUTLET °F	CONDENSER FAN				COMPRESSOR				ELECTRICAL SERVICE ②				BASIS OF DESIGN		
							TYPE	SUCTION TEMP. °		NO	FLA EA	FLA LRA	FLA LRA	QUAN.	KW EA	FLA EA	LRA	ELECTRICAL SERVICE						
																		V	Ø	HZ	MCA		MOP	
CU-1	GUEST ROOMS HEAT PUMPS- NORTH	24	144.0/144.0	21.9	180.0/160.0	3.36	R-410A	-	95	2/2	-	-	-	-	1/1	-	-	-	208	3	60	52/52	80/80	MTSUBISHI CITY MULTI-PHEV-P10BMAU-E3 ①
CU-2	GUEST ROOMS HEAT PUMPS- SOUTH	26	160.0/144.0	19.7	180.0/160.0	3.27	R-410A	-	95	2/2	-	-	-	-	1/1	-	-	-	208	3	60	68/52	110/80	MTSUBISHI CITY MULTI-PHEV-P10BMAU-E3 ①

- PROVIDE TWINNING KIT.
- EACH OUTDOOR UNIT IS A PAIR OF MODULES THAT NEED SEPARATE POWER CONNECTIONS.

FAN SCHEDULE													
NO.	SERVICE	CFM	S.P. (IN. WG.)	HP	RPM	TYPE	CLASS	DRIVE	ELECTRICAL SERVICE			BASIS OF DESIGN GREENHECK	REMARKS
									V.	Ø	H2		
EF-1	KITCHEN HOOD # 52	4,396	2.25	3	1,163	ROOF UPBLAST	1	BELT	208	3	60	MODEL CUBE-240HP-30	① ② ③
EF-2	KITCHEN HOOD # 90	2,567	2.0	1.5	1,476	ROOF UPBLAST	1	BELT	208	3	60	MODEL CUBE-180HP-20	① ② ③
EF-3	DISHWASHER HOOD	600	1.75	0.5	2,398	ROOF UPBLAST	1	BELT	115	1	60	MODEL CUBE-101H-VIS	①
EF-4	TOILET ROOM & MISC. AREA EXHAUST	2,830	2.25	2	1,586	ROOF UPBLAST	1	BELT	208	3	60	MODEL CUBE-180HP-20	①
EF-5	PENTHOUSE KITCHEN HOOD # 122	3,117	1.75	2	1,684	UTILITY SET	1	BELT	208	3	60	MODEL USF-316-BI-G	② ③ ④ ⑤ ⑥ ⑦
EF-6	MUA1 & 2 COMBUSTION AIR EXHAUST	600	1.0	0.5	2,328	UTILITY SET	1	BELT	208	3	60	MODEL CSW-9-BI-21-10-1-5	② ③ ④ ⑤ ⑥ ⑦
EF-7	PENTHOUSE LEVEL REST ROOMS	360	0.5	1/6	1,550	LOW SILHOUTTE- ROOF FAN	1	DIRECT DRIVE	120	1	60	MODEL G-90	①
EF-8	PENTHOUSE ELECTRICAL ROOM	300	0.375	121 WATTS	947	CEILING FAN	-	DIRECT DRIVE	120	1	60	MODEL SP-A410	⑧ ⑨ ⑩
EF-9	STORAGE 006	300	0.375	121 WATTS	947	CEILING FAN	-	DIRECT DRIVE	120	1	60	MODEL SP-A410	⑧ ⑨ ⑩
-	-	-	-	-	-	-	-	-	-	-	-	-	-

EXHAUST FAN SCHEDULE NOTES:

- 12" ROOF CURB
- DISCONNECT SWITCH & VFD BY EC.
- HIGH EFFICIENCY MOTOR SUITABLE FOR USE W/VED
- PROVIDE EQUIPMENT SUPPORT RAILS & VIBRATION ISOLATION
- PROVIDE DRAIN OUTLET IN FAN SCROLL AND INSTALL GREASE CONTAINMENT CONTAINER BELOW FAN
- INSTALL A SS SCREEN ON FAN DISCHARGE.
- WEATHERPROOF MOTOR HOUSING
- PROVIDE A WC-8 ALUMINUM WALL DISCHARGE CAP
- PROVIDE REVERSE ACTING THERMOSTAT FOR FAN OPERATION
- FAN TO HAVE INTEGRAL DISCONNECTION PLUG.

ENERGY WHEEL SCHEDULE

	AIRFLOW DB - WB - PD	SUMMER CONDITION DB - WB - PD		WINTER CONDITION DB - WB - PD	
		DB	WB	PD	PD
VENTILATION SUPPLY	2,614 CFM	82.2°F	67.9°F	0.60"	44.6°F 34.5°F 0.60"
VENTILATION RETURN	1,690 CFM	75.0°F	62.0°F	0.60"	70.0°F 50.0°F 0.60"
OUTSIDE AIR	2,614 CFM	83.0°F	78.0°F	-	10.0°F 7.0°F -
EXHAUST	1,690 CFM	-°F	-°F	0.60"	-°F -°F 0.60"

	AIRFLOW DB - WB - PD	SUMMER CONDITION DB - WB - PD		WINTER CONDITION DB - WB - PD	
		DB	WB	PD	PD
VENTILATION SUPPLY	2,668 CFM	80.8°F	68.0°F	1.14"	51.2°F 45.7°F 1.14"
VENTILATION RETURN	2,668 CFM	75.0°F	63.0°F	2.0"	70.0°F 58.0°F 2.0"
OUTSIDE AIR	2,861 CFM	95.0°F	78.0°F	-	10.0°F 8.0°F -
EXHAUST	2,861 CFM	88.2°F	73.2°F	1.15"	30.3°F 29.6°F 1.15"

BUILDING DESIGN CONDITIONS			
OUTSIDE DESIGN TEMPERATURE	7° DB	INDOOR DESIGN TEMPERATURE	70° ± 45% RH
WINTER CONDITION	7° DB		72° 50% RH
SUMMER CONDITION	93° DB 75° WB		

AIR DEVICE SCHEDULE

DEVICE NO.	FUNCTION	DAMPER	SIZE	CFM RANGE	DESCRIPTION	MANUFACTURER & MODEL NO.	FINISH	NC LEVEL	REMARKS
LSD-1	SUPPLY	YES	SEE PLANS	-	(3) 1" DISCHARGE SLOTS W/ ICE TONG SHAPED PATTERN CONTROLLERS.	PRICE 'SDS-100'	WHITE	-	MOUNT DIFFUSERS WITHIN A FACTORY INTERNALLY INSULATED AND FIELD EXTERNALLY WRAPPED SHEET METAL DISCHARGE PLENUM. SURFACE MOUNTING FRAME AND MITERED EDGE FLANGES
LSD-2	SUPPLY	YES	SEE PLANS	-	(4) 1" DISCHARGE SLOTS W/ ICE TONG SHAPED PATTERN CONTROLLERS.	PRICE 'SDS-100'	WHITE	-	
LSR-1	RETURN	YES	SEE PLANS	-	(3) 1" INLET SLOTS	PRICE 'SDR-100'	WHITE	-	
SG-1	SUPPLY	YES	SEE PLANS	-	SIDEWALL SUPPLY REGISTER	PRICE 'SDGE'	WHITE	-	-
SR-1	SUPPLY	YES	SEE PLANS	-	-	-	-	-	-
RR-1	RETURN	YES	SEE PLANS	-	ALUMINUM LOUVERED FACE REGISTER	PRICE '935'	WHITE	-	REGISTER BLADES PARALLEL TO LONG SIDE OF UNIT. UNIT SHALL INCLUDE AN ALUMINUM OPPOSED BLADE DAMPER, OPERABLE FROM FACE OF UNIT.
ER-1	EXHAUST	YES	SEE PLANS	-	ALUMINUM LOUVERED FACE REGISTER	PRICE '935'	WHITE	-	REGISTER BLADES PARALLEL TO LONG SIDE OF UNIT. UNIT SHALL INCLUDE AN ALUMINUM OPPOSED BLADE DAMPER, OPERABLE FROM FACE

RIVERHOUSE AT Odette's

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GATEWAY TO NEW HOPE, LLC
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MECHANICAL DETAILS &
DIAGRAMS

DRAWING

M-8

