

HVAC SHOP DRAWING SAMPLE

BID ACCURATE LLC

LIST OF HVAC DRAWINGS

LIST OF HVAC DRAWINGS			
Sheet Number	Sheet Name	Sheet Issue Date	Current Revision Description
H-100	HVAC DUCKWORK PLAN - GENERAL	05/12/2024	A
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H-102	HVAC DUCKWORK PLAN - PART B	05/12/2024	A
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BID ACCURATE LLC

ABBREVIATIONS:

AC	GAS FURNACE WITH SPLIT SYSTEM AC
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
BOD	BOTTOM OF DUCT
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
COD	CABLE OPERATED DAMPER
CU	CONDENSING UNITS
EA	EXHAUST AIR
EAD	EXHAUST AIR DUCT
EF	EXHAUST FAN
FC	MINI SPLIT SYSTEM HEAT PUMP
FCL	FALSE CEILING LEVEL
FD	FIRE DAMPER
FLEX	FLEXIBLE DUCT
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FSD	FIRE SMOKE DAMPER
KED	KITCHEN EXHAUST DUCT
KMD	KITCHEN MAKE-UP AIR DUCT
MAU	MAKE-UP AIR UNIT / VENTILATION UNIT
OA	OUTSIDE AIR
OED	OPEN END DUCT
RA	RETURN AIR
RAD	RETURN AIR DUCT
RTU	ROOF TOP AIR CONDITIONING UNIT
SA	SUPPLY AIR
SAD	SUPPLY AIR DUCT
T	THERMOSTAT
TG	TRANSFER GRILLE
TOD	TOP OF DUCT
VAV	VARIABLE AIR VALVE
VD	VOLUME DAMPER

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ADDRESS
RENOVATIONS
&
ADDITIONS

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Drawn:	RA
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Scale:	1/4"=1'-0"

HVAC DUCTWORK
PLAN - GENERAL

SHEET TITLE

H-100

SHEET NO.

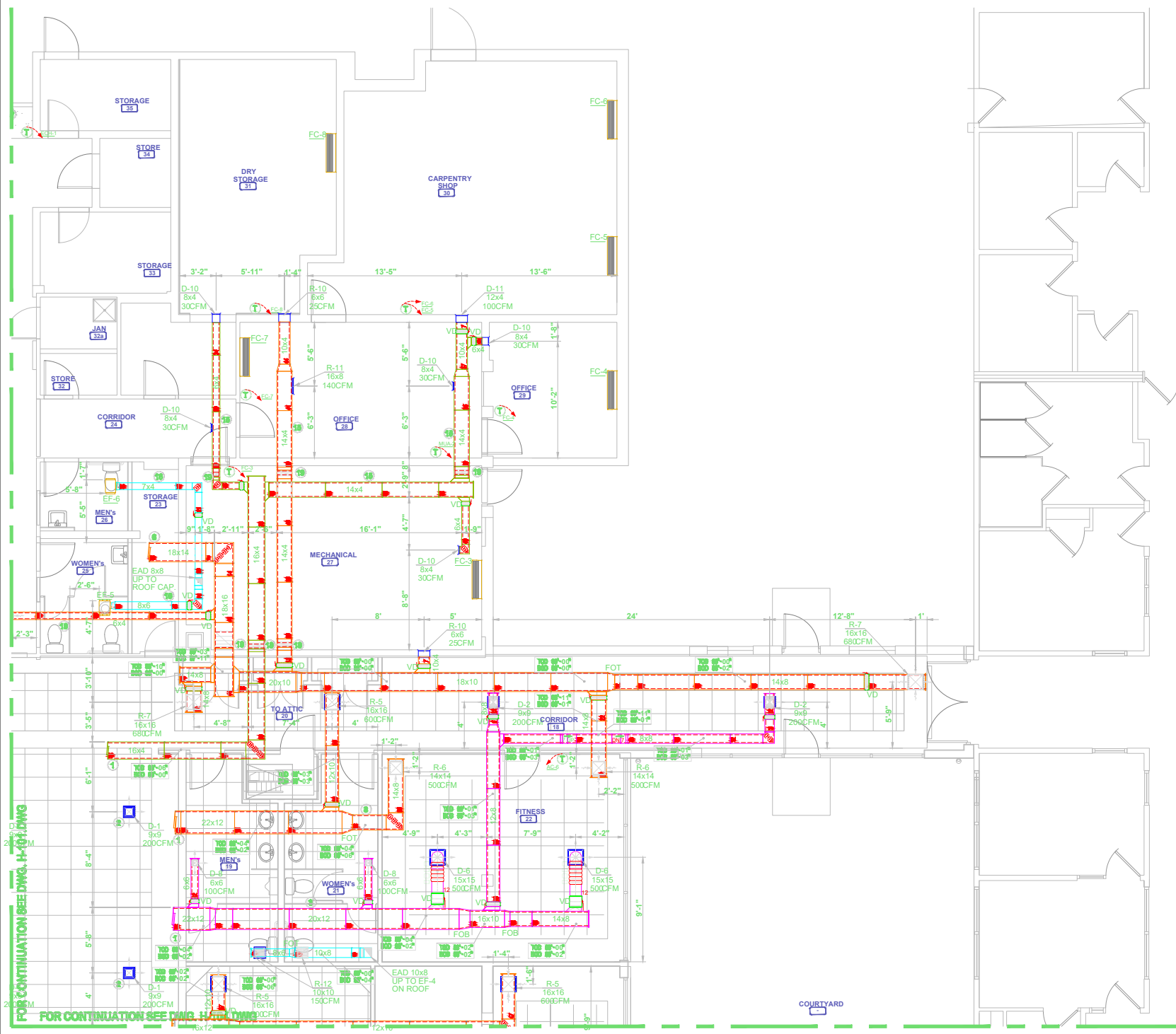
NOTES:

- SEE HVAC DUCTWORK ATTIC PLAN, H-20 FOR CONTINUATION
- GRD FED FROM DUCT ON ATTIC FLOOR ABOVE. SEE ATTIC PLAN DRAWING H-200 FOR CONTINUATION.
- DUCT IN ATTIC SPACE.
- 32x16 SUPPLY DUCT DOWN FROM RTU. SEE HVAC ROOF PLAN, H-300 FOR CONTINUATION.
- 32x16 RETURN DUCT UP TO RTU. SEE HVAC ROOF PLAN, H-300 FOR CONTINUATION.
- 18x14 RETURN DUCT, SEE HVAC ROOF PLAN, H-300 FOR CONTINUATION.
- 28x12 SUPPLY DUCT FROM KITCHEN HOOD, BY FOOD SERVICE EQUIPMENT
- CONTRACTOR, UP TO ATTIC. REFER TO HVAC DUCTWORK ATTIC PLAN, H-200, FOR CONTINUATION.
- 14x10 EXHAUST DUCT FROM KITCHEN HOOD, BY FOOD SERVICE EQUIPMENT
- CONTRACTOR, UP TO ATTIC. REFER TO HVAC DUCTWORK ATTIC PLAN, H-200, FOR CONTINUATION.
- PROVIDE DUCT TRANSITION AS REQUIRED TO CONNECT TO EXISTING DUCT.
- EXISTING EXHAUST PAN AND DUCTWORK TO REMAIN
- EXISTING ELECTRIC WALL HEATER TO REMAIN
- PROVIDE 16x4 EXHAUST AIR DUCT CONNECTION TO DISHWASHER HOOD. REFER TO HVAC DUCTWORK ATTIC PLAN, H-200 FOR CONTINUATION.
- RETURN DUCT FROM LOW RETURN UP TO ATTIC. SEE HVAC DUCTWORK ATTIC PLAN, H-200 FOR CONTINUATION.
- LOCATE FAN COIL UNIT SO THAT IT FALLS BETWEEN EXISTING JOISTS.
- DUCTWORK RUNS EXPOSED IN SPACE.
- DUCTWORK SHALL RUN BETWEEN EXISTING ROOF FRAMING.
- INSTALL CABINET HEATER RECESSED IN BULKHEAD
- PROVIDE DUCT OFFSET TO TRANSITION BETWEEN ATTIC SPACE AND MECHANICAL ROOM.
- PROVIDE DUCT OFFSET TO TRANSITION BETWEEN MECHANICAL ROOM AND JUST BELOW CEILING IN ADJACENT SPACE.
- PROVIDE DUCT PRESSURE SENSOR PER MANUFACTURER'S RECOMMENDATIONS FOR CONTROL VAV SYSTEM.



Figure 1 shows a cross-section of a four-story building. The total height is 40'-0". The first floor is 12'-0" high, and the upper three floors are each 10'-0" high. The building has a central core and two side wings. The core is 4'-0" wide, and the wings are 3'-0" wide. The building is shown in a simplified schematic with dimensions and a scale of 1/4" = 1'-0".

HVAC DUCTWORK
PLAN - PART A



- NOTES:**
- 1 SEE HVAC DUCTWORK ATTIC PLAN, H-20 FOR CONTINUATION
 - 2 GRD FED FROM DUCT ON ATTIC FLOOR ABOVE. SEE ATTIC PLAN DRAWING H-200 FOR CONTINUATION.
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 - 12 EXISTING EXHAUST PAN AND DUCTWORK TO REMAIN
 - 13 EXISTING ELECTRIC WALL HEATER TO REMAIN
 - 14 PROVIDE 16x4 EXHAUST AIR DUCT CONNECTION TO DISHWASHER HOOD. REFER TO HVAC DUCTWORK ATTIC PLAN, H-200 FOR CONTINUATION.
 - 15 RETURN DUCT FROM LOW RETURN UP TO ATTIC. SEE HVAC DUCTWORK ATTIC PLAN, H-200 FOR CONTINUATION.
 - 16 LOCATE FAN COIL UNIT SO THAT IT FALLS BETWEEN EXISTING JOISTS.
 - 17 DUCTWORK RUNS EXPOSED IN SPACE.
 - 18 DUCTWORK SHALL RUN BETWEEN EXISTING ROOF FRAMING.
 - 19 INSTALL CABINET HEATER RECESSED IN BULKHEAD
 - 20 PROVIDE DUCT OFFSET TO TRANSITION BETWEEN ATTIC SPACE AND MECHANICAL ROOM.
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 - 22 PROVIDE DUCT PRESSURE SENSOR PER MANUFACTURER'S RECOMMENDATIONS FOR CONTROL VAV SYSTEM.



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ABBREVIATIONS:

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AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
BOD	BOTTOM OF DUCT
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
COD	CABLE OPERATED DAMPER
CU	CONDENSING UNITS
EA	EXHAUST AIR
EAD	EXHAUST AIR DUCT
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FC	MINI SPLIT SYSTEM HEAT PUMP
FCL	FALSE CEILING LEVEL
FD	FIRE DAMPER
FFL	FINISH FLOOR LEVEL
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FSD	FIRE SMOKE DAMPER
KED	KITCHEN EXHAUST DUCT
KMD	KITCHEN MAKE-UP AIR DUCT
MAU	MAKE-UP AIR UNIT / VENTILATION UNIT
OA	OUTSIDE AIR
OED	OPEN END DUCT
RA	RETURN AIR
RAD	RETURN AIR DUCT
RTU	ROOF TOP AIR CONDITIONING UNIT
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T	THERMOSTAT
TG	TRANSFER GRILLE
TOD	TOP OF DUCT
VAV	VARIABLE AIR VALVE
VD	VOLUME DAMPER

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ADDRESS

RENOVATIONS & ADDITIONS

REV	DESCRIPTION	DATE
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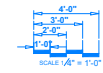
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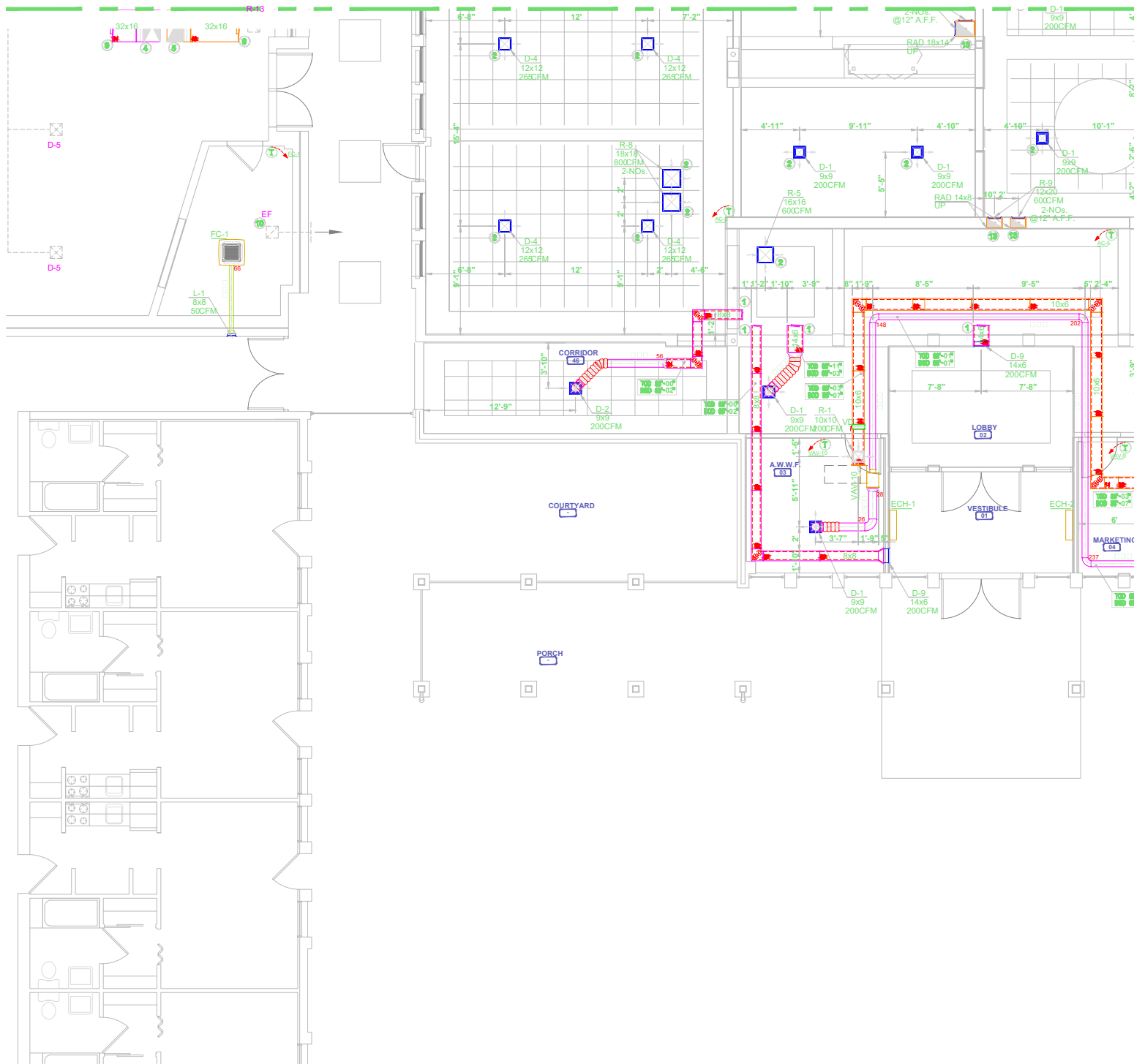
HVAC DUCTWORK PLAN - PART B

SHEET TITLE

H-102

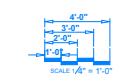
SHEET NO.





NOTES:

- 1 SEE HVAC DUCTWORK ATTIC PLAN, H-20 FOR CONTINUATION
- GRD FED FROM DUCT ON ATTIC FLOOR ABOVE. SEE ATTIC PLAN DRAWING H-200 FOR CONTINUATION.
- 2 DUCT IN ATTIC SPACE.
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- 13 EXISTING ELECTRIC WALL HEATER TO REMAIN
- 14 PROVIDE 16x4 EXHAUST AIR DUCT CONNECTION TO DISHWASHER HOOD. REFER TO HVAC DUCTWORK ATTIC PLAN, H-200 FOR CONTINUATION.
- 15 RETURN DUCT FROM LOW RETURN UP TO ATTIC. SEE HVAC DUCTWORK ATTIC PLAN, H-200 FOR CONTINUATION.
- 16 LOCATE FAN COIL UNIT SO THAT IT FALLS BETWEEN EXISTING JOISTS.
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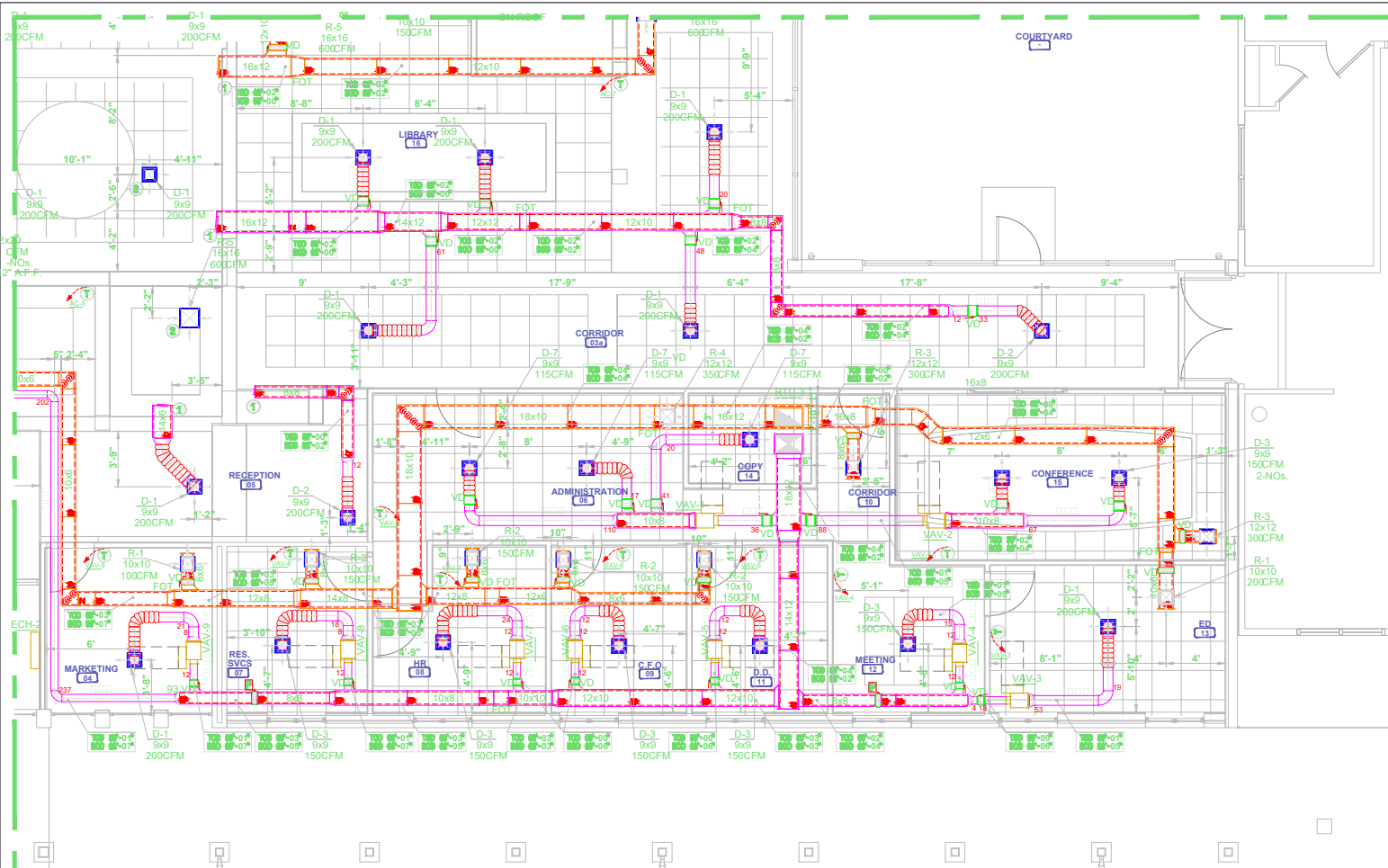
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HVAC DUCTWORK
PLAN - PART C

SHEET TITLE

H-103

SHEET NO.



NOTES:

- 1 SEE HVAC DUCTWORK ATTIC PLAN, H-20 FOR CONTINUATION
- GRD FED FROM DUCT ON ATTIC FLOOR ABOVE. SEE ATTIC PLAN
- 2 DRAWING H-200 FOR CONTINUATION.

32x16 SUPPLY DUCT DOWN FROM
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RETURN DUCT FROM LOW
RETURN UP TO ATTIC. SEE HVAC
DUCTWORK ATTIC PLAN, H-200
FOR CONTINUATION.

14 LOCATE FAN COIL UNIT SO THAT IT FALLS BETWEEN EXISTING JOISTS

DUCTWORK RUNS EXPOSED IN SPACE.

10 DUCTWORK SHALL RUN BETWEEN EXISTING ROOF FRAMING.



INSTALL CABINET HEATER RECESSED IN BULKHEAD

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PROVIDE DUCT PRESSURE
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HVAC DUCTWORK
PLAN - PART D

SHEET TITLE

H-104

SHEET NO.