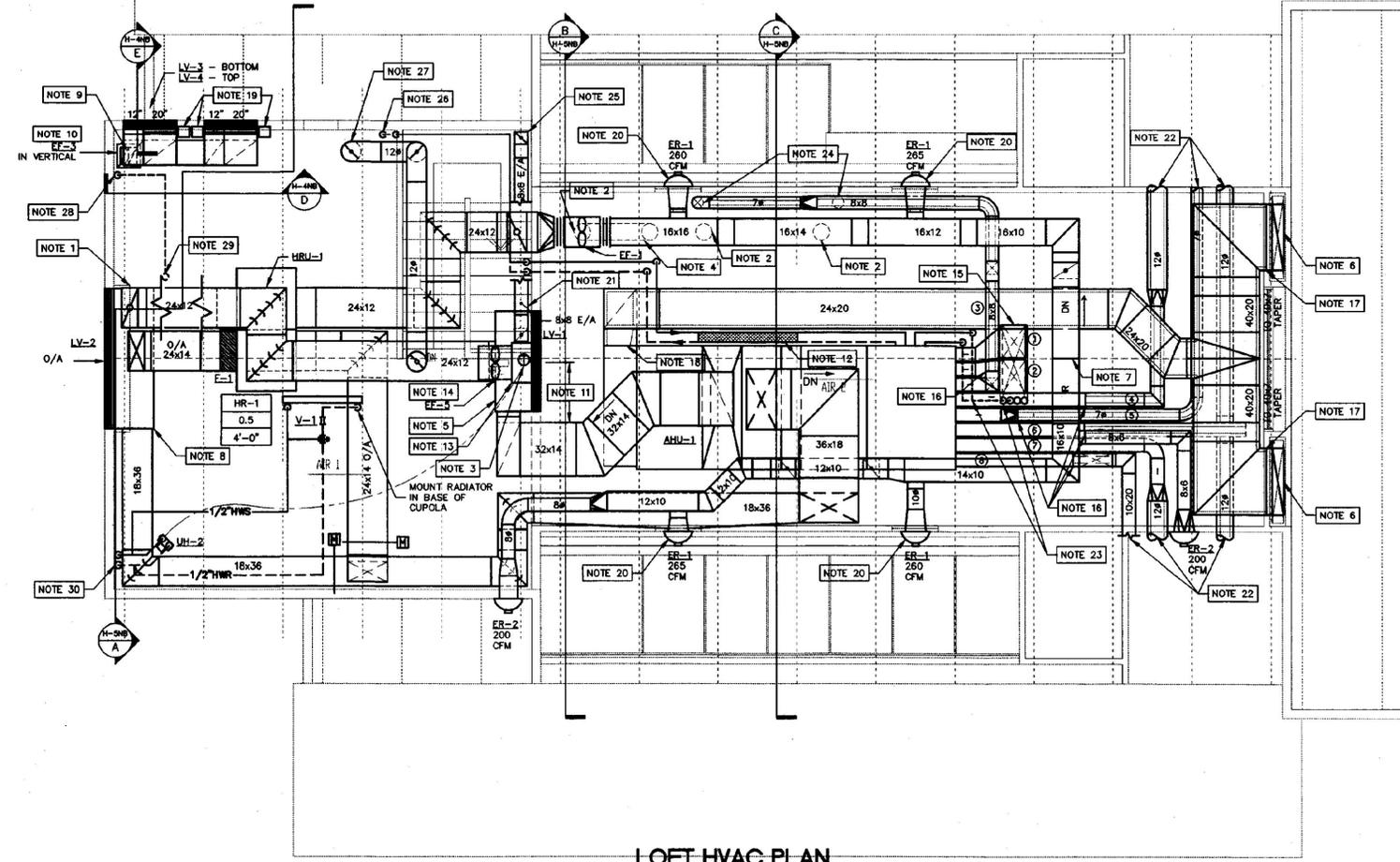
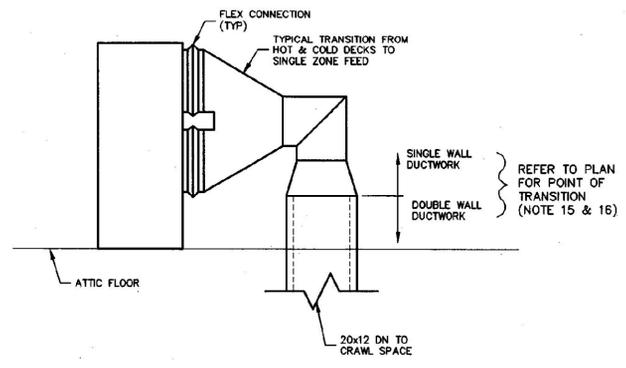


**DX COIL PIPING DETAIL - (SPLIT FACE)**  
SCALE: NONE



**LOFT HVAC PLAN**  
SCALE: 1/4"=1'-0"



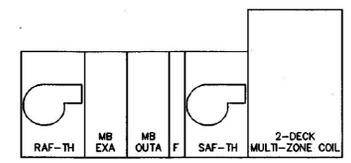
**ELEVATION OF MULTI-ZONE DUCT CONNECTIONS**  
SCALE: 1/2"=1'-0"

NOTES:  
CONNECTION SHOWN FOR 20x14 AND 14x14 DUCTS TO CRAWL SPACE (WORST CASE TRANSITIONS).

**SINGLE ZONE DUCT SIZES: DOWNSTREAM OF HOT/COLD DECK TRANSITION**

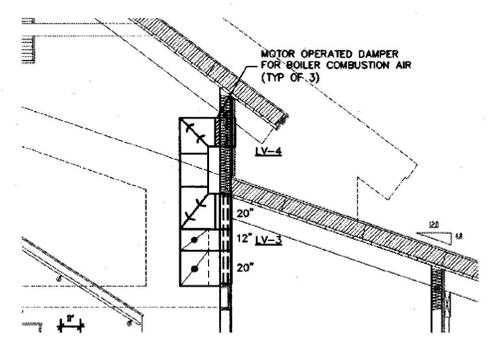
ZONE ①	20"x12"	ENTRY
ZONE ②	20"x12"	INFORMATION (BENCHES)
ZONE ③	8"x8"	FLEX BATHROOM
ZONE ④	8"x14" TO 12"ø	MEN'S BATHROOM
ZONE ⑤	7"ø	OFFICE
ZONE ⑥	8"x20" TO (2) 12"ø	INFORMATION (NOZZLES)
ZONE ⑦	8"x18" TO 12"ø	WOMEN'S BATHROOM/STAFF
ZONE ⑧	10"x20"	VESTIBULE

NOTE: ALL CONNECTIONS TO HOT AND COLD DECKS ARE 8"x20". PROVIDE BALANCING DAMPERS IN DUCTWORK TO BALANCE FLOWS AS SHOWN ON THE PLANS.

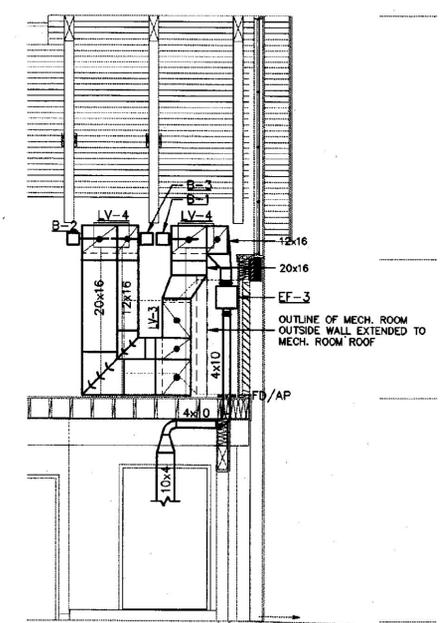


**AHU-1 CONFIGURATION**  
SCALE: NONE

- NOTES:
- 24x12 E/A DUCT TO RISE, TURN BACK TIGHT TO THE TOPSIDE OF HRU-1, AND ROUTE TO E/A PLENUM BEHIND LV-1.
  - 10"ø E/A DOWN TO MAIN FLOOR. FOR CONTINUATION SEE DRAWING H-3NB.
  - MECHANICAL CONTRACTOR SHALL PROVIDE LINE VOLTAGE THERMOSTATS TO ELECTRICAL CONTRACTOR FOR MOUNTING AND WIRING. M.C. TO FURNISH AND INSTALL LINE VOLTAGE AQUASTAT ON PIPING, E.C. TO WIRE.
  - OFFSET E/A DUCT FROM MAIN TO FLOOR PENETRATION UNDER EF-1.
  - PROVIDE 60"Wx48"Hx24"DEEP PLENUM FOR E/A AND RELIEF AIR TO LEAVE THROUGH LV-1.
  - 40x7 R/A UP IN CHASE TO RETURN AIR FROM INFORMATION AREA. COORDINATE INSTALLATION WITH G.C.
  - ROUTE 16"x10" E/A DUCT UP IN BETWEEN CEILING JOISTS, FOLLOWING CONTOUR OF CEILING. REFER TO LOFT STRUCTURAL PLAN FOR COORDINATION PURPOSES.
  - PROVIDE 84"Wx64"Hx24"DEEP O/A PLENUM FOR LV-2.
  - 10x4 E/A DOWN TO FUEL OIL ROOM. SEE DRAWING H-3NB FOR CONTINUATION.
  - EF-3 MOUNTED SUCH THAT E/A DUCTWORK PASSES OVER TOP OF C/A DUCTWORK. SEE SECTION D THIS DRAWING.
  - MAINTAIN MINIMUM 3'-0" WIDE CLEAR SPACE AT TOP OF STAIR FOR ACCESS INTO LOFT MECHANICAL ROOM.
  - LOCATION OF HW COIL CONTROL VALVE PIPING TRAIN ABOVE UNIT ADJACENT TO RELIEF AIR AND O/A DUCT CONNECTIONS. SEE PIPING SCHEMATICS DRAWING H-3NB.
  - 24x24 E/A PLENUM ATTACHED TO UNUSED PORTION OF E/A LOUVER (LV-1) ABOVE HVAC E/A PLENUM.
  - MOUNT EF-5 TO 24x24 PLENUM ABOVE HVAC E/A PLENUM. SEE WALL FAN DETAIL, DRAWING H-3NB.
  - TRANSITION TO 20x12 DOUBLE WALL DUCTWORK DOWNSTREAM OF VERTICAL ELBOWS (REFER TO MULTI-ZONE DUCT DETAIL). FOR CONTINUATION SEE DRAWING H-3NB.
  - TRANSITION FROM SINGLE WALL TO DOUBLE WALL DUCTWORK AT POINT SHOWN.
  - DOUBLE WALL R/A UP TO 40x7 RISER, RISER DUCT IS SINGLE WALL.
  - DOUBLE WALL R/A DUCT DN TO AHU-1 R/A PLENUM.
  - (3) COMBUSTION AIR DAMPERS, SEE DETAILS D AND E THIS DRAWING.
  - CENTER "NOZZLE" DIFFUSERS BETWEEN EXPOSED BEAMS.
  - CONNECT 8"x8" CRAWL SPACE E/A DUCT TO E/A AND RELIEF AIR PLENUM. PROVIDE BACKDRAFT DAMPER AT POINT OF CONNECTION.
  - FOR CONTINUATION OF S/A DUCTWORK SEE MAIN FLOOR PLAN, DRAWING H-3NB.
  - (2) REFRIGERANT SUCTION AND (2) REFRIGERANT LIQUID LINES UP FROM CRAWL SPACE THROUGH CHASE ON MAIN FLOOR LEVEL. SEE DRAWING H-3NB FOR CONTINUATION. ROUTE PIPING BELOW DUCTWORK AND CONNECT TO DX COIL PER DETAIL THIS DRAWING.
  - 7"ø S/A DUCT DOWN TO MAIN FLOOR. FOR CONTINUATION SEE DRAWING H-3NB.
  - 8"x8" E/A DUCT DOWN TO MAIN FLOOR. FOR CONTINUATION OF DUCTWORK SEE DRAWING H-3NB.
  - 2"HWS&R DOWN TO MECHANICAL ROOM. SEE DRAWING H-3NB FOR CONTINUATION. ROUTE PIPING ALIGNED VERTICALLY AS SHOWN.
  - 12" BOILER FLUE DOWN TO MECHANICAL ROOM. FOR CONTINUATION SEE DRAWING H-3NB. OFFSET FLUE (ANGLE GREATER THAN 45°) AND RUN HORIZONTALLY AT ROOF LINE. TERMINATE THROUGH ROOF BEHIND CUPOLA. SEE SECTION A DRAWING H-5NB FOR ADDITIONAL CLARIFICATION.
  - 1-1/2" FUEL OIL VENT DOWN TO FUEL OIL STORAGE TANKS. FOR CONTINUATION SEE DRAWING H-3NB.
  - 1-1/2" FLUE OIL VENT UP THROUGH ROOF. TERMINATE MINIMUM OF 18" ABOVE ROOF WITH MUSHROOM CAP.
  - 3/4"HWS&R DOWN TO MAIN FLOOR. FOR CONTINUATION SEE DRAWING H-3NB.



**HIGH COMBUSTION AIR LOUVER DETAIL (LV-3/LV-4)**  
SCALE: 1/4"=1'-0"



**HIGH COMBUSTION AIR LOUVER DETAIL (LV-3/LV-4)**  
SCALE: 1/4"=1'-0"

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No.	DATE	REVISION

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265 SOUTH CHAMPLAIN STREET, BURLINGTON, VERMONT 05401 (802) 864-8683

**Hallam Associates**  
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**WILLISTON INFORMATION CENTER**  
189 NORTHBOUND  
STATE PROJECT # IM-BLDG (4)

**LOFT HVAC PLAN**

DRAWN: J.MARSHALL  
CHECKED: M.COOK  
PROJ.No: 10215  
DATE: JAN 15, 2001

**H-4nb**