

DRC

H.V.A.C GENERAL NOTES:

PZ23-12000051
05/15/2024

MECHANICAL SHALL CONFORM WITH THE CURRENT (FBC 2020, 7th EDITION), NFPA, NEC, AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS AND ORDINANCES.

CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, TAXES, INSPECTIONS, TESTS, PERFORMANCE BONDS, FINES AND OTHER ITEMS AS REQUIRED FOR THE INSTALLATION OF THE COMPLETE MECHANICAL SYSTEMS, AND SHALL BE RESPONSIBLE FOR OBTAINING HIS OWN PERMIT.

MECHANICAL PLANS ARE DIAGRAMATIC, AND MAY CHANGE DUE TO FIELD CONDITIONS.

ARCHITECTH SHALL BE COORDINATE WITH ALL TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION AND IN STRICT COMPLIANCE WITH STRUCTURAL PLANS AND ALL APPLICABLE CODES AND STANDARDS.

MECHANICAL CONTRATOR SHALL VERIFY AND COORDINATE EXISTING OF THE BUILDING BEFORE INSTALLATION AND COORDINATE RUTE OF DUCTWORK SYSTEMS.

CONTRACTOR SHALL PROVIDE ALL REQUIRED INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK. ALSO VERIFY EXISTING CONDITIONS BEFORE START THE JOB.

DUCT CONSTRUCTION, BRACING AND SUSPENSION IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE LATEST EDITION OF THE A.S.H.R.A.E. GUIDE AND S.M.A.C.N.A. STANDARDS. DUCT SIZES SHOWN ARE "INSIDE" DIMENSIONS. VERIFY EXACT LOCATION OF DUCT WITH RESPECT TO STRUCTURE BEFORE FABRICATION.

ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION AND IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES AND STANDARDS.

SUBMIT SHOP DRAWING OF ALL MATERIALS AND EQUIPMENT FOR APPROVAL PRIOR TO FABRICATION.

GENERAL/MECHANICAL CONTRACTOR SHALL BE VERIFY ALL INSULATION VALUE USED FOR CALCUALTIUIONS IN ENERGY AND/OR HEAT LOAD PROVIDED BY MECHANICAL ENGINEER.

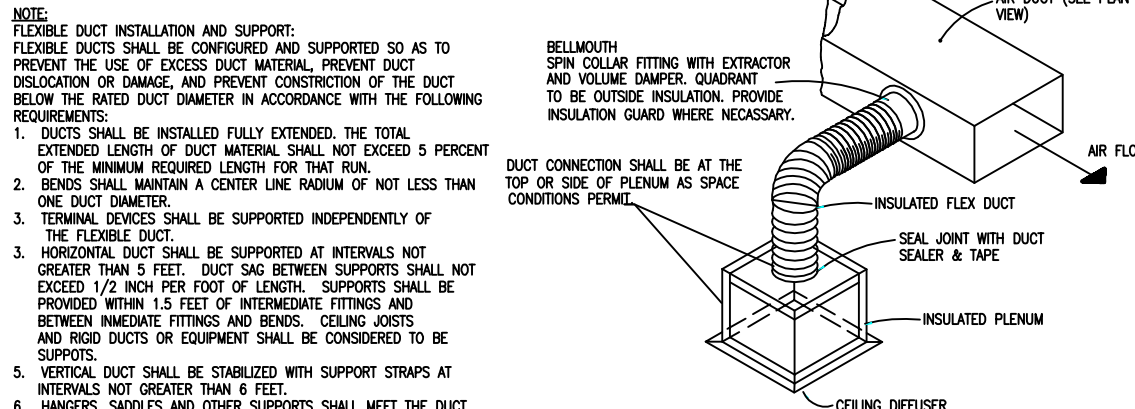
CUT ALL OPENINGS AND CHASES REQUIRED TO ACCOMMODATE THE WORK UNDER THIS DIVISION, AND REPAIR ALL FLOORS, WALLS, ETC., DAMAGED BY SUCH CUTTINGS. ALL WORK DONE UNDER THIS HEADING MUST CONFORM IN EVERY RESPECT TO FINISH AND QUALITY OF MATERIALS AND WORKMANSHIP SPECIFIED UNDER APPROPRIATE SECTIONS FOR THE BUILDING.

MECHANICAL CONTRACTOR SHALL BE RESPONSABLE FOR AIR BALANCE ACORDING WITH PLAN.

ALL DUCTWORK RUNNING IN CONDITIONED SPACE COULD BE R-4 AND DUCTWORK RUNNING IN UNCONDITIONED SPACE SHALL BE R-6 MIN INSUATION. PLS VERIFY LOCAL CODES.

PROVIDE 1" UNDERCUT AT ALL INTERIOR DOORS.

HVAC DESIGN REQUIRES	YES	NO
DUCT SMOKE DETECTOR		X
FIRE DAMPER(S)/ RADIANT		X
SMOKE DAMPER(S)		X
FIRE RATED ENCLOSURE		X
FIRE RATED ROOF CEILING ASSEMBLY		X
FIRE STOPPING		X
SMOKE CONTROL		X



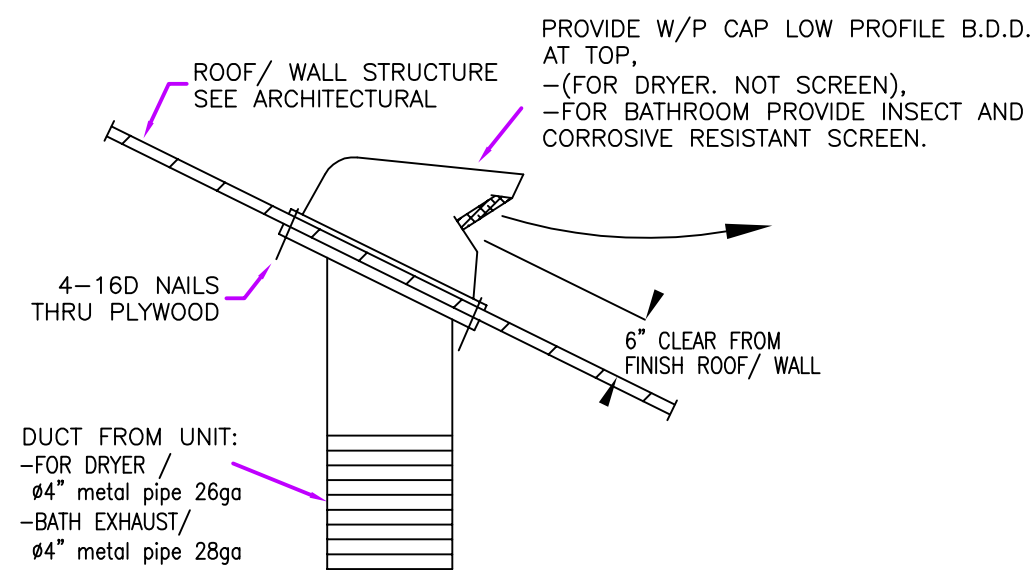
DUCT CONNECTIONS DETAIL (TYPICAL)

A/C GRILLE SPECS.	
SUPPLY GRILLE	TITUS MODEL: 250-AA W/O.B.D. or similar
RETURN GRILLE	TITUS MODEL: 350FL or similar

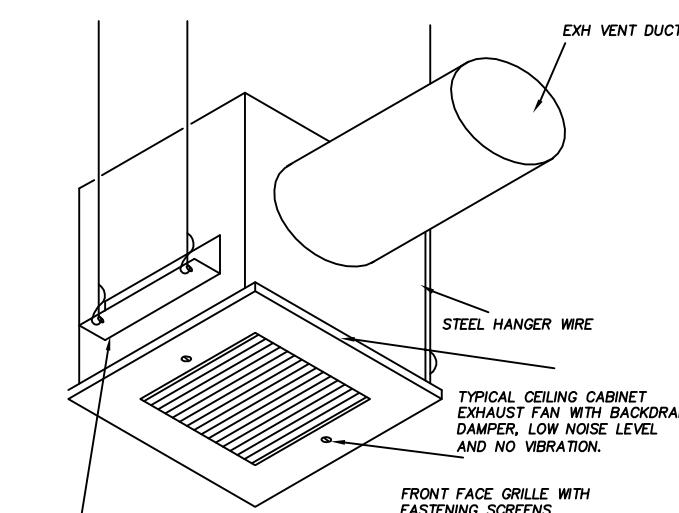
SCOPE OF WORK:

- IS LIMITED TO INSTALL A NEW UNIT AS SPECIFIED IN THIS PLAN.
- IS LIMITED TO INSTALL A/C DUCT WORK AND VENTILATION SYSTEMS AS SPECIFIED IN THIS PLAN

SPLIT SYSTEM SCHEDULE	
NOMINAL TONS	3.5
TOTAL COOLING CAP. (BTU/HR)	41,500
SENSIBLE COOLING CAP.(BTU/HR)	30,700
SUPPLY (CFM)	1400
HEATER (KW)	10
ESP-IN WG	0.3
AHU MIN CIRCUIT AMPACITY	56
CU MIN CIRCUIT AMPACITY	25
VOLTAGE	230V-1P
DESIGN MANUFACTURE	RHEEM (OR EQUAL APPROVED)
AHU MODEL	RH114821STAN
CU MODEL	RA1642A/J1
SEER	16
REFRIGERANT LINE SIZE	3/4"-7/8"



TYPICAL ROOF/ WALL CAP DETAIL @ DRYER AND/OR TOILET EXH.



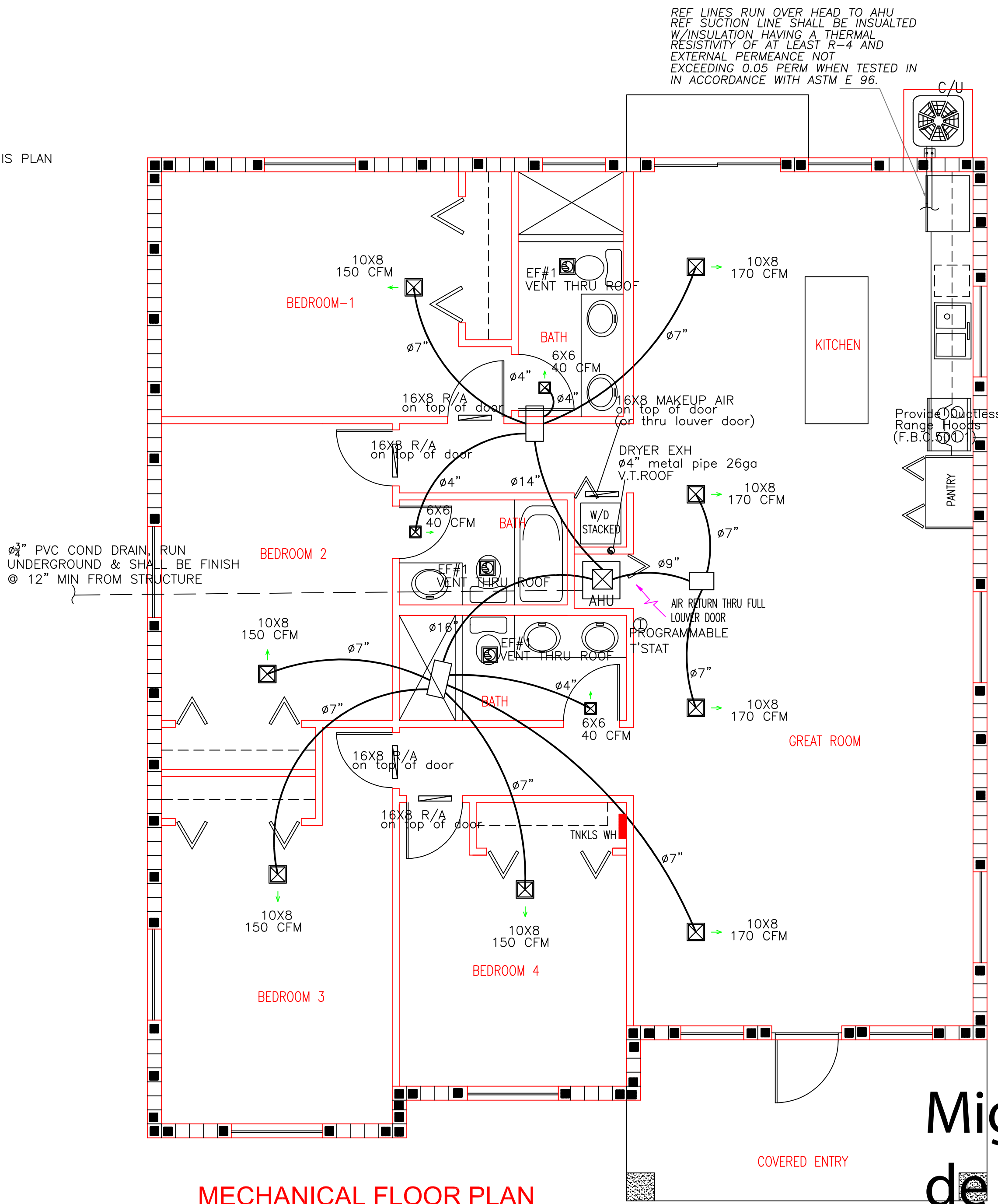
CEILING MOUNTED CABINET EXHAUST FAN DETAIL

EF#1
EXH FAN#1 (BRAND: BROAN)
MODEL 696, 50 CFM & B.D.D.
WIRE CONNECTED TO INDEPENT SWITCH. (OR EQUAL APPROVED)

STANDARD 3" WIDE HANGERS		
Duct size, inches	Minimum Channel Gauge	Minimum Channel Profile
48" Wide or greater	4 ft	6 ft
Less than 48" wide and less than 48" deep	6 ft	8 ft
Width between 28" & 48" and greater than 16" deep	8 ft	10 ft
Less than 28" wide and 16" deep or less	8 ft	10 ft

CHANNEL SECTION		
If Total Extension is not greater than:	Minimum Channel Gauge	Minimum Channel Profile
6"	24	3" x 1.5"
16"	22	3" x 2"
30"	18	3" x 2"

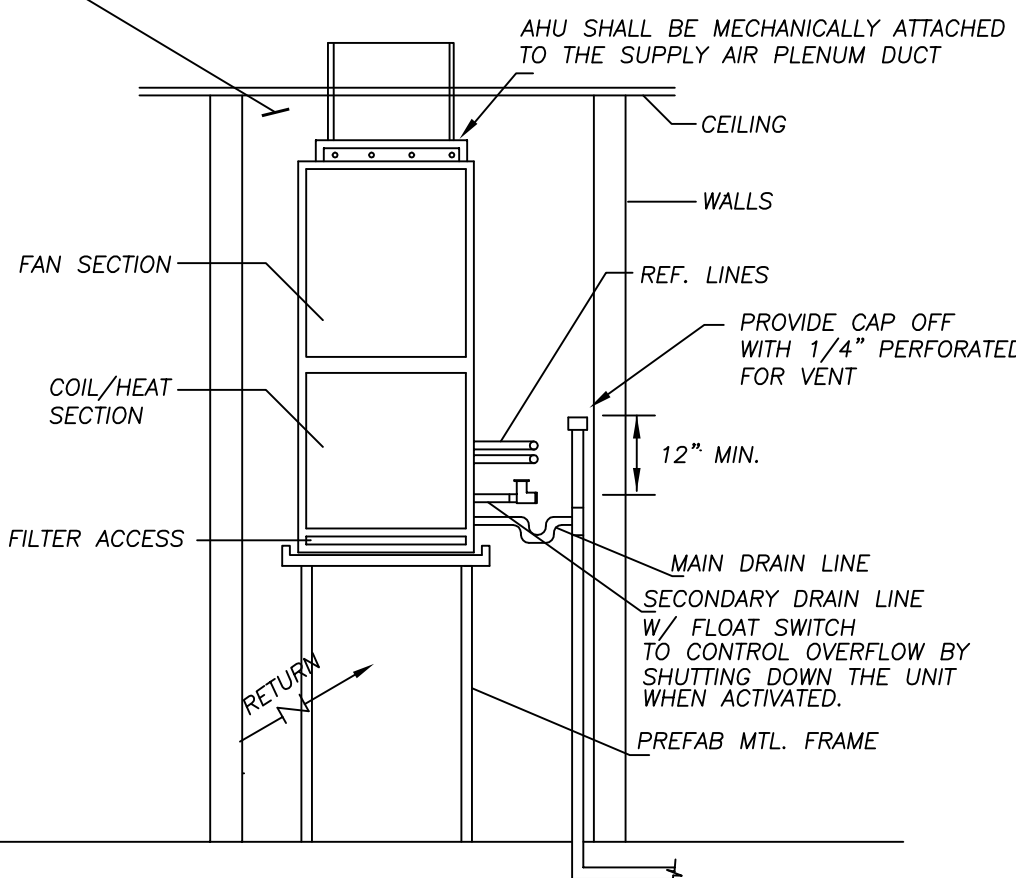
USE OF Cambridge Duct Support Webbing 50" x 1- 3/4" Black UL 2043



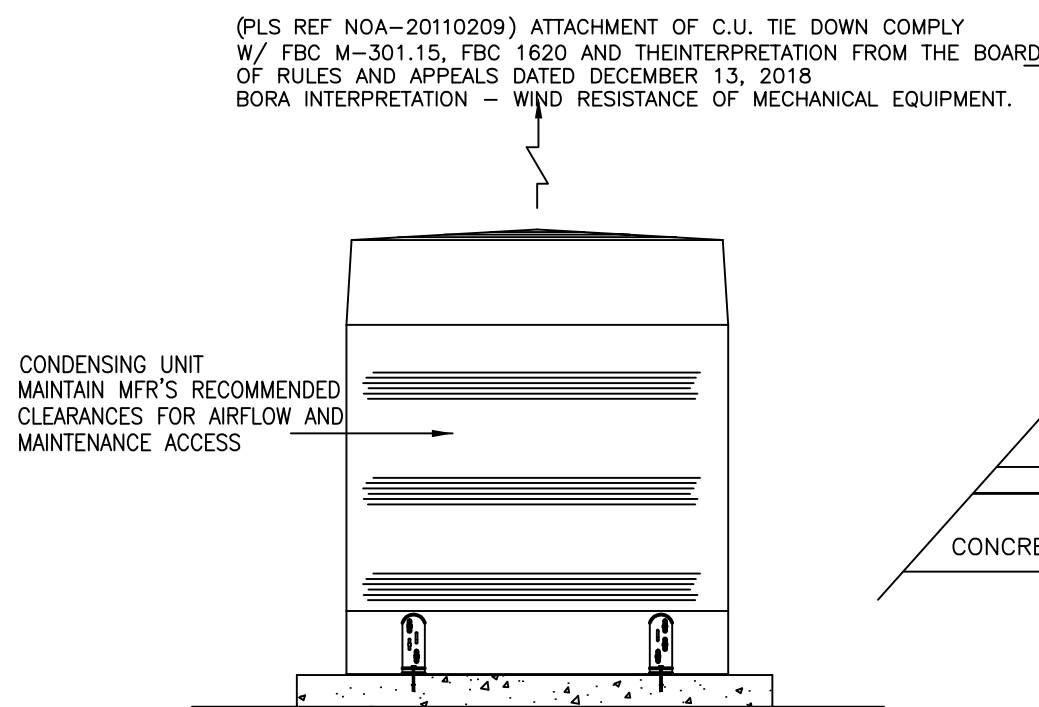
MECHANICAL FLOOR PLAN

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

"3" MIN. CLEARANCE TO BE PROVIDED ALONG THE SIDES, BACK AND TOP OF AHU. THIS IS IN ADDITION TO REQUIREMENTS OF THE AHU CLOSET TO MEASURE AT LEAST 12 INCHES WIDER THAN THE AHU.2017 FBCR-M13051.1



AHU CLOSET INSTALLATION



CONDENSING UNIT INSTALLATION DETAIL

NOTES:
- REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING-TYPE TAMPER RESISTANT CAPS OR SHALL BE OTHERWISE SECURED TO PREVENT UNAUTHORIZED ACCESS. TO COMPLIANCE WITH THE FBC, R SECTION M1411.6.
- ALL EXPOSED REFRIGERANT PIPING INSULATION TO BE JACKETED OR PAINTED WITH AV PROTECTIVE PAINT.
NOTE ON CONDENSING UNIT MOUNTING DETAIL.

Miguel F de Diego

Digitally signed
by Miguel F de Diego
Date: 2023.11.13 15:35:12 -05'00'

10-4-2022

STATE OF FLORIDA
MIGUEL DE DIEGO
REGISTERED ARCHITECT
No. 13378

PZ23-12000051
12/20/2023

NEW RESIDENCE
MODEL B
PARCEL-4 351 NW 10th STREET
POMPANO BEACH, FLORIDA

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AA-26001641

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PH. (954) 926-3358 FAX (954) 926-2021

CHECKED
DRAWN
DATE 10-4-22
COMM. NO. 21-194