

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

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

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

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.

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

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

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

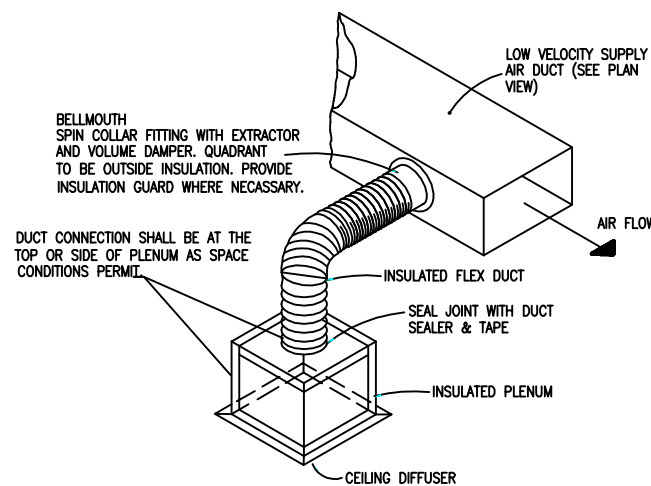
ALL DUCTWORK RUNNING IN CONDITIONED SPACE COULD BE R-4 AND DUCTWORK RUNNING IN UNCONDITIONED SPACE SHALL BE R-6 MIN INSULATION. PLS VERIFY LOCAL CODES.

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

NOTE: DUCT INSTALLATION AND SUPPORT:

- 1. FLEXIBLE DUCTS SHALL BE CONFIGURED AND SUPPORTED SO AS TO PREVENT THE USE OF EXCESS DUCT MATERIAL. PREVENT DUCT FROM BEING STRETCHED TO THE POINT OF EXCESSIVE TENSION. DO NOT BELOW THE RATED DUCT DIAMETER IN ACCORDANCE WITH THE FOLLOWING:
- a. DUCTS SHALL BE INSTALLED FULLY EXTENDED. THE TOTAL LENGTH OF THE DUCT SHALL BE THE MINIMUM REQUIRED LENGTH PLUS 10% OF THE MINIMUM REQUIRED LENGTH FOR TWO RUNS.
- b. BENDS SHALL MAINTAIN A CENTER LINE RADIUS OF NOT LESS THAN 10 TIMES THE DUCT DIAMETER.
- c. TERMINAL DEVICES SHALL BE SUPPORTED INDEPENDENT OF THE FLEXIBLE DUCT.
- d. HORIZONTAL DUCT SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING 10 FEET. VERTICAL DUCT SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING 12 INCH PER FOOT OF LENGTH. SUPPORTS SHALL BE SPACED TO MAINTAIN THE DUCT AT ITS RATED DIAMETER AND BETWEEN INADEQUATE FITS AND BENDS. CEILING JOISTS AND RIGID DUCTS OR EQUIPMENT SHALL BE CONSIDERED TO BE SUPPORTS.
- e. VERTICAL DUCT SHALL BE STABILIZED WITH SUPPORT STRAPS AT 10 FEET INTERVALS.
- f. HANGERS, SHOULDER AND OTHER SUPPORTS SHALL MEET THE DUCT DESIGNER'S REQUIREMENTS. SUPPORTS SHALL BE INSTALLED WITHIN 10 FEET OF THE DUCT TERMINAL DEVICES. SUPPORTS SHALL BE INSTALLED WITHIN 10 FEET TO PREVENT RESTRICTION OF THE INTERNAL DUCT DIAMETER.
- g. SUPPORTS SHALL BE MAINTAINED AT THE RATED DIAMETER. DUCTS IN DIRECT CONTACT SHALL BE LESS THAN 1/2 INCH.

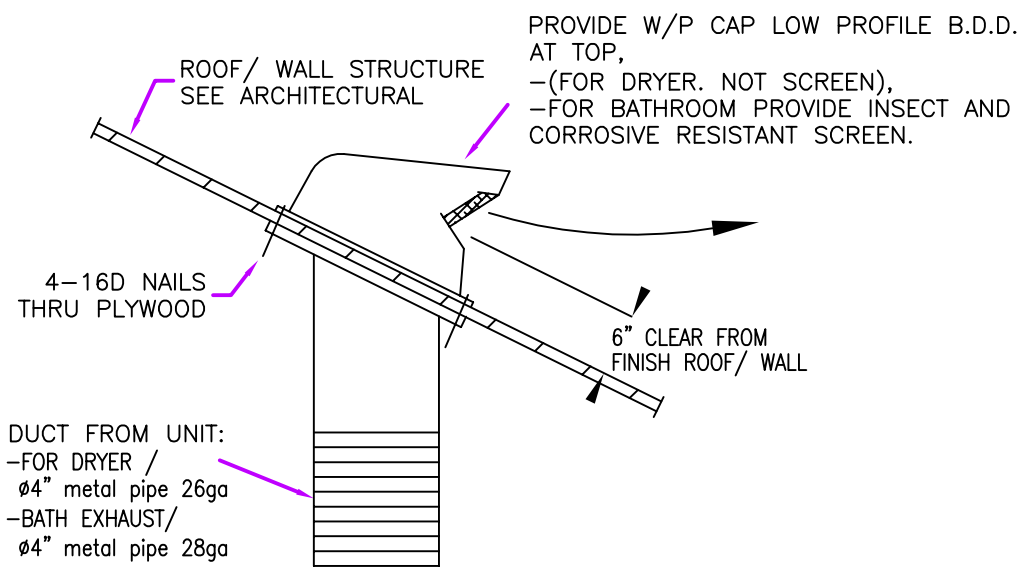


DUCT CONNECTIONS DETAIL (TYPICAL)

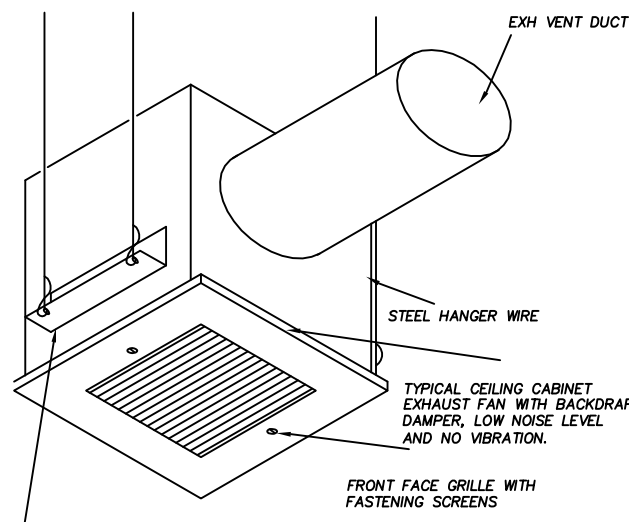
A/C GRILLE SPECS.	
SUPPLY GRILLE	TITUS MODEL: 250-AA W/O.B.D.or similar
RETURN GRILLE	TITUS MODEL: 350FL or similar

SPLIT SYSTEM SCHEDULE	
NOMINAL TONS	4
TOTAL COOLING CAP. (BTU/HR)	45 500
SENSIBLE COOLING CAP.(BTU/HR)	33 500
SUPPLY (CFM)	1550
WATER (KW)	10
ESP-IN WG	0.3
AHU MIN. CIRCUIT AMPACITY.	56
CU. MIN. CIRCUIT AMPACITY	25
VOLTAGE	208V-1P
DESIGN MANUFACTURE	RHEEM (OR EQUIV. APPROVED)
AHU MODEL	RH11A825TAN
CU. MODEL	RA1648AJ1
SEER	16
REFRIGERANT LINE SIZE	7/8"-3/8"


- 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.



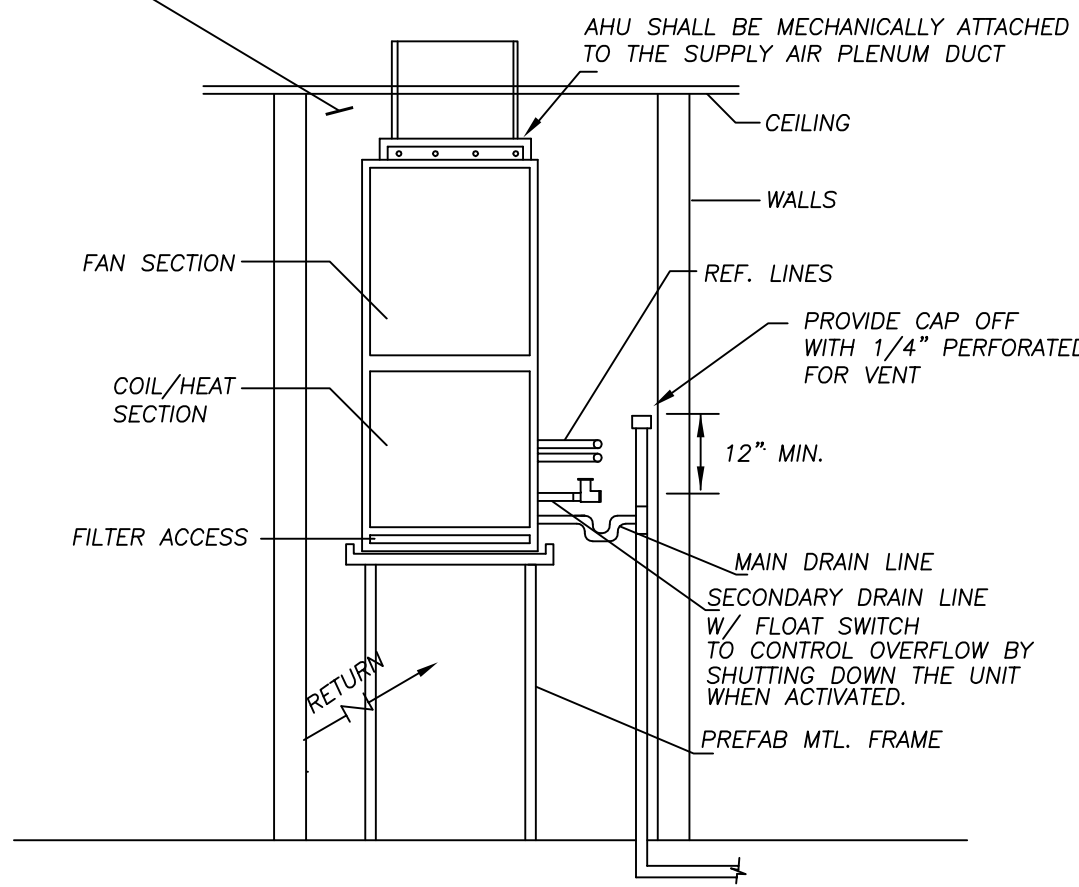
TYPICAL ROOF/ WALL CAP DETAIL
@ DRYER AND/OR TOILET EXH.



CEILING MOUNTED CABINET EXHAUST FAN DETAIL

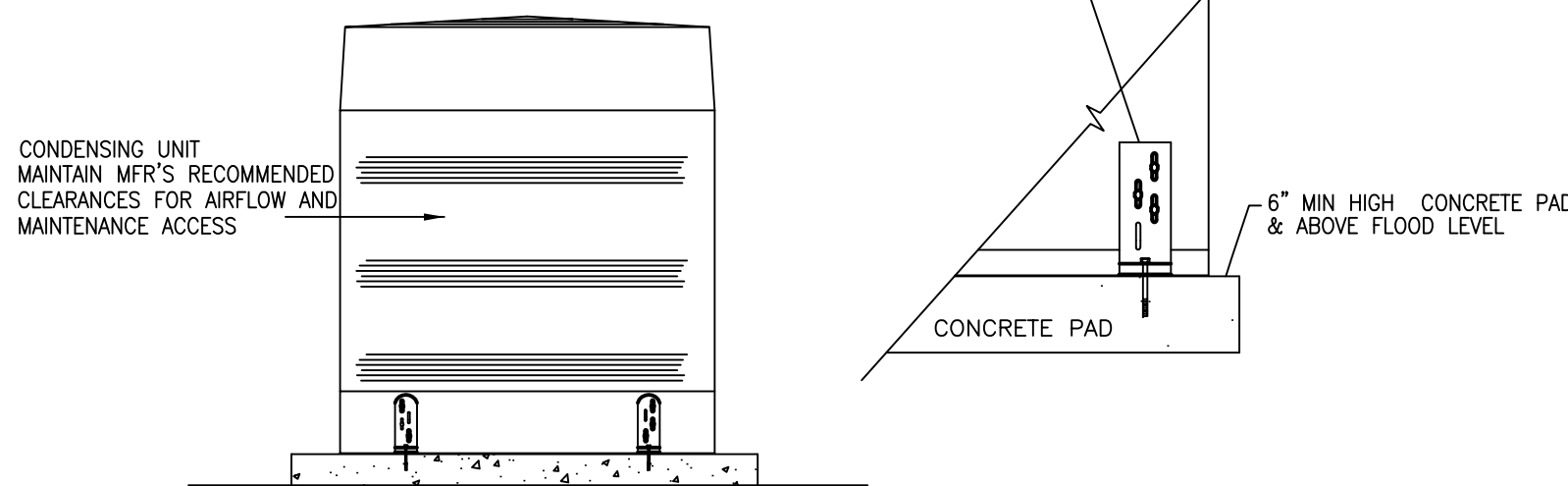
 EF#1
EXH FAN#1 (BRAND: BROAN) MODEL 696, 50 CFM & B.D.D. WIRE CONECTED TO INDEPENT SWITCH. (OR EQUAL APPROVED)

"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

(PLS REF NOA-20110209) ATTACHMENT OF C.U. TIE DOWN COMPLY
W/ FBC M-301.15, FBC 1620 AND THE INTERPRETATION FROM THE BOARD
OF RULES AND APPEALS DATED DECEMBER 13, 2018
BORA INTERPRETATION - WIND RESISTANCE OF MECHANICAL EQUIPMENT.

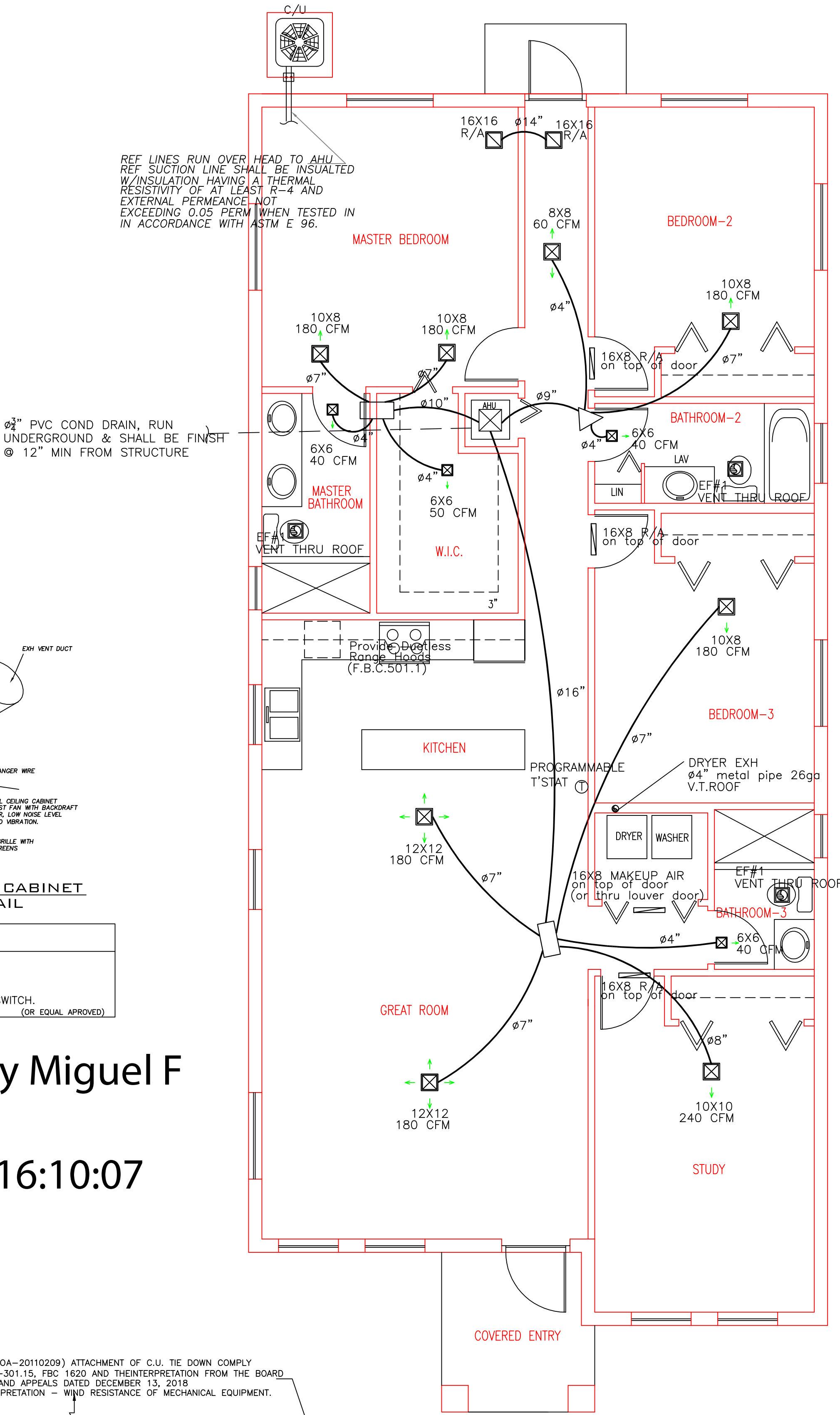


CONDENSING UNIT INSTALLATION DETAIL

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

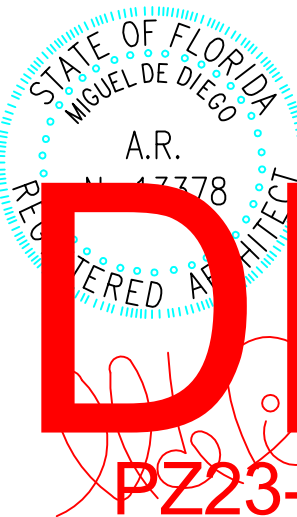
NOTE ON CONDENSING UNIT MOUNTING DETAIL



MECHANICAL PLAN

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

9-19-2022



PZ23-12000051
12/20/2023

ALL DESIGN, DRAWINGS, REPORTS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES AND ANY OTHER DOCUMENTS PREPARED BY THE ARCHITECT AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF THE ARCHITECT AND IS NOT TO BE REPRODUCED, COPIED OR ALTERED IN WHOLE OR IN PART. IT IS ONLY TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN AND IS NOT TO BE USED ON ANY OTHER PROJECT. THE ARCHITECT SHALL RETAIN ALL COMMON LAW COPYRIGHT AND OTHER RESERVED RIGHTS THEREIN.

WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALE.

[illegible]

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CHECKED _____
DRAWN _____
DATE 4-4-2022 _____
COMM. NO. 21-194 _____

CONTRACTOR SHALL VERIFY ALL DIMENSIONS, NOTES AND CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK