

H.V.A.C. GENERAL NOTES:

ALL WORK 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 CALCUALTUIONS 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.

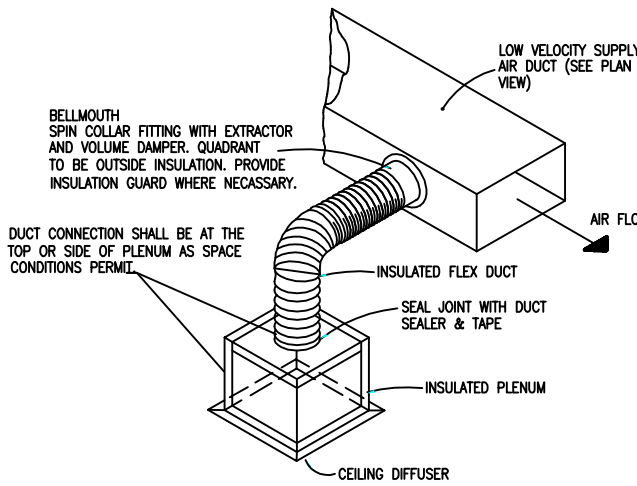
ALL DUCTWORK RUNNING IN CONDITIONED SPACE COULD BE R-4 AND DUCTWORK RUNNING IN UNCONDITIONED SPACE SHALL BE R-6 MIN INSUATION. PLS VERIFY LOCAL CODES.

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

NOTE: FLEXIBLE DUCT INSTALLATION AND SUPPORT: FLEXIBLE DUCTS SHALL BE CONFIGURED AND SUPPORTED SO AS TO PREVENT THE USE OF EXCESS DUCT MATERIAL, PRESENT DUCT DEGRADATION OR DAMAGE AND PREVENT CORROSION OF THE DUCT BELOW THE DUCT DUCT DIAMETER IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

- DUCTS SHALL BE INSTALLED FULLY EXTENDED. THE TOTAL EXTENDED LENGTH OF DUCT MATERIAL SHALL NOT EXCEED 5 PERCENT OF THE MINIMUM REQUIRED LENGTH FOR THAT RUN.
- SERIES SHALL MAINTAIN A CENTER LINE PROFILE OF NOT LESS THAN ONE DUCT DIAMETER.
- TERRAIN DEVICES SHALL BE SUPPORTED INDEPENDENTLY OF THE FLEXIBLE DUCT.
- HORIZONTAL DUCT SHALL BE SUPPORTED AT INTERVALS NOT GREATER THAN 5 FEET. DUCT SAG BETWEEN SUPPORTS SHALL NOT EXCEED 1/2 INCH PER FOOT OF LENGTH. SUPPORTS SHALL BE PROVIDED WITHIN 1.5 FEET OF INTERMEDIATE FITTINGS AND BETWEEN IMMEDIATE FITTINGS AND ENDS. CEILING JOISTS AND ROOF DUCTS OR EQUIPMENT SHALL BE CONSIDERED TO BE SUPPORTS.
- VERTICAL DUCT SHALL BE STABILIZED WITH SUPPORT STRIPS AT INTERVALS NOT GREATER THAN 4 FEET.
- HANGERS, GABLETS AND OTHER SUPPORTS SHALL MEET THE DUCT MANUFACTURER'S RECOMMENDATIONS AND SHALL BE OF SUFFICIENT WIDTH TO PREVENT RESTRICTION OF THE FLEXIBLE DUCT DIAMETER. IN NO CASE SHALL THE MATERIAL SUPPORTING FLEXIBLE DUCT THAT IS IN DIRECT CONTACT WITH IT BE LESS THAN 1/2 INCHES WIDE.



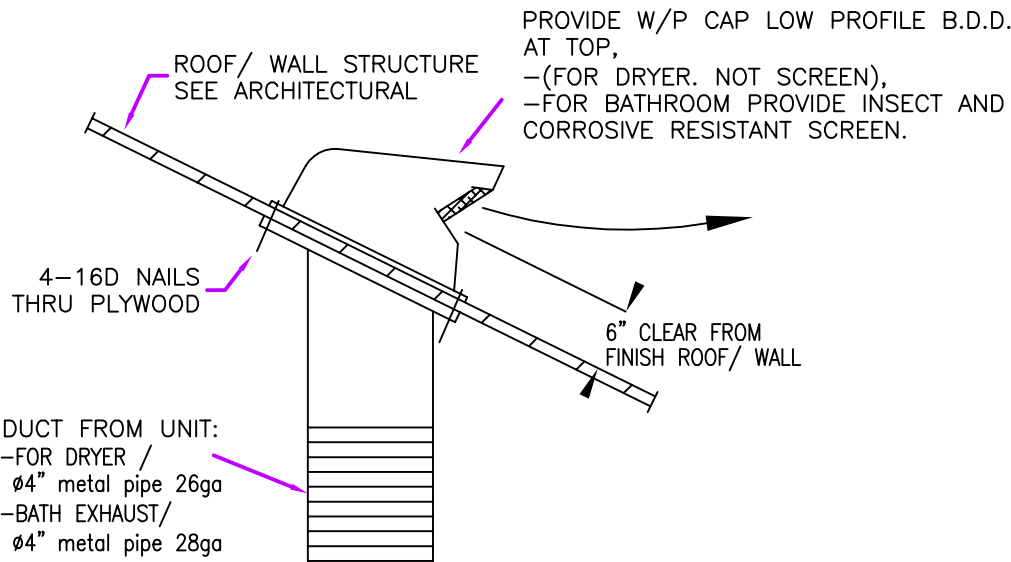
DUCT CONNECTIONS DETAIL (TYPICAL) N.T.S.

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

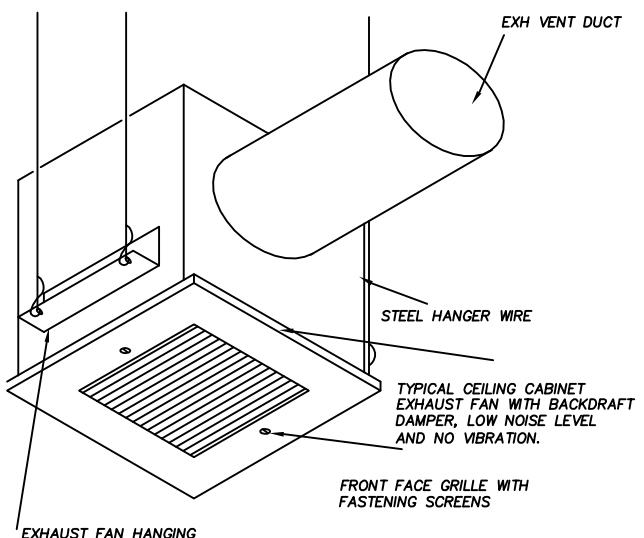
SPLIT SYSTEM SCHEDULE	
NOMINAL TONS	4
TOTAL COOLING CAP. (BTU/HR)	45 500
SENSIBLE COOLING CAP.(BTU/HR)	33 500
SUPPLY (CFM)	1550
HEATER (KW)	10
ESP-IN WG	0.3
AHU MIN. CIRCUIT AMPACITY.	56
CU MIN. CIRCUIT AMPACITY	29
VOLTAGE	208V-1P
DESIGN MANUFACTURE	RHEEM (OR EQUAL APPROVED)
AHU MODEL	RH148/24STAN
CU MODEL	RA1648AJ1
SEER	16
REFRIGERANT LINE SIZE	7/8"-3/8"

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

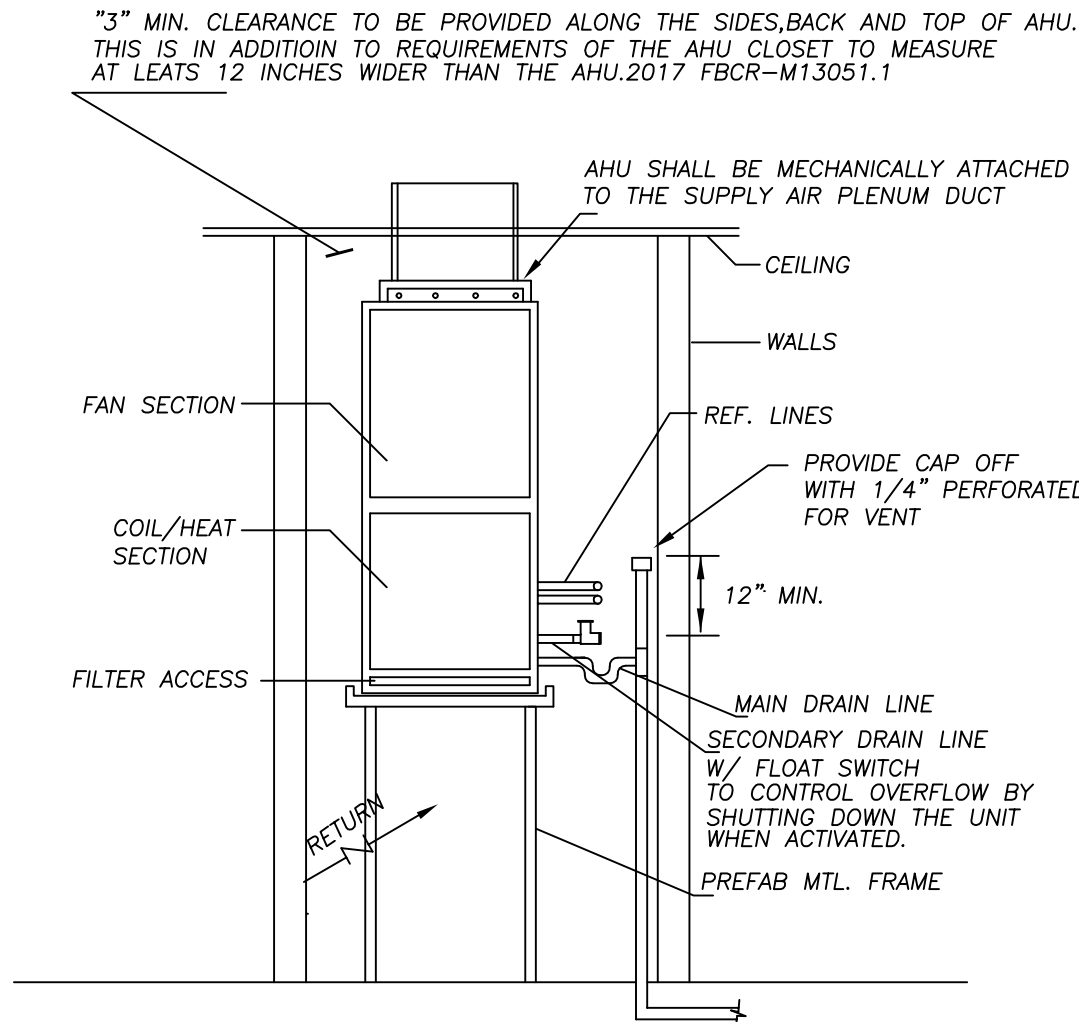


TYPICAL ROOF/ WALL CAP DETAIL @ DRYER AND/OR TOILET EXH. N.T.S.

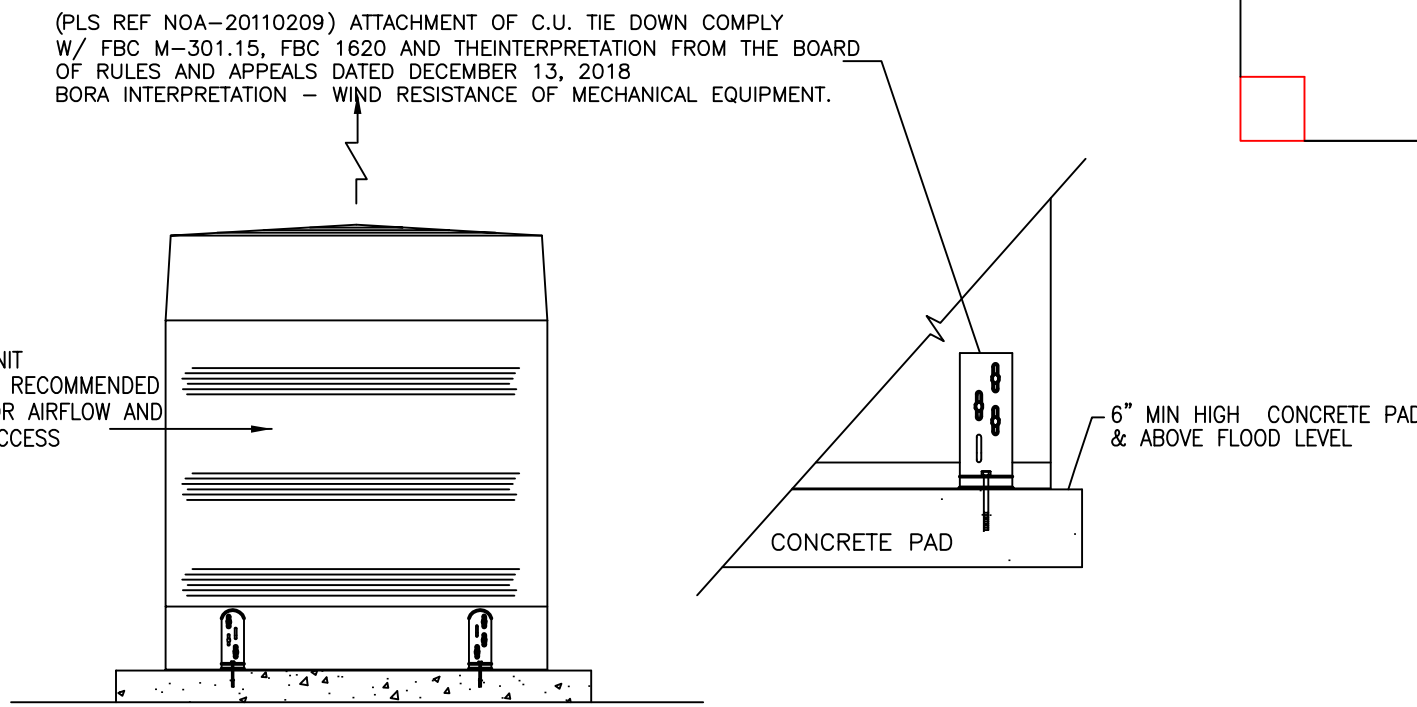


CEILING MOUNTED CABINET EXHAUST FAN DETAIL

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



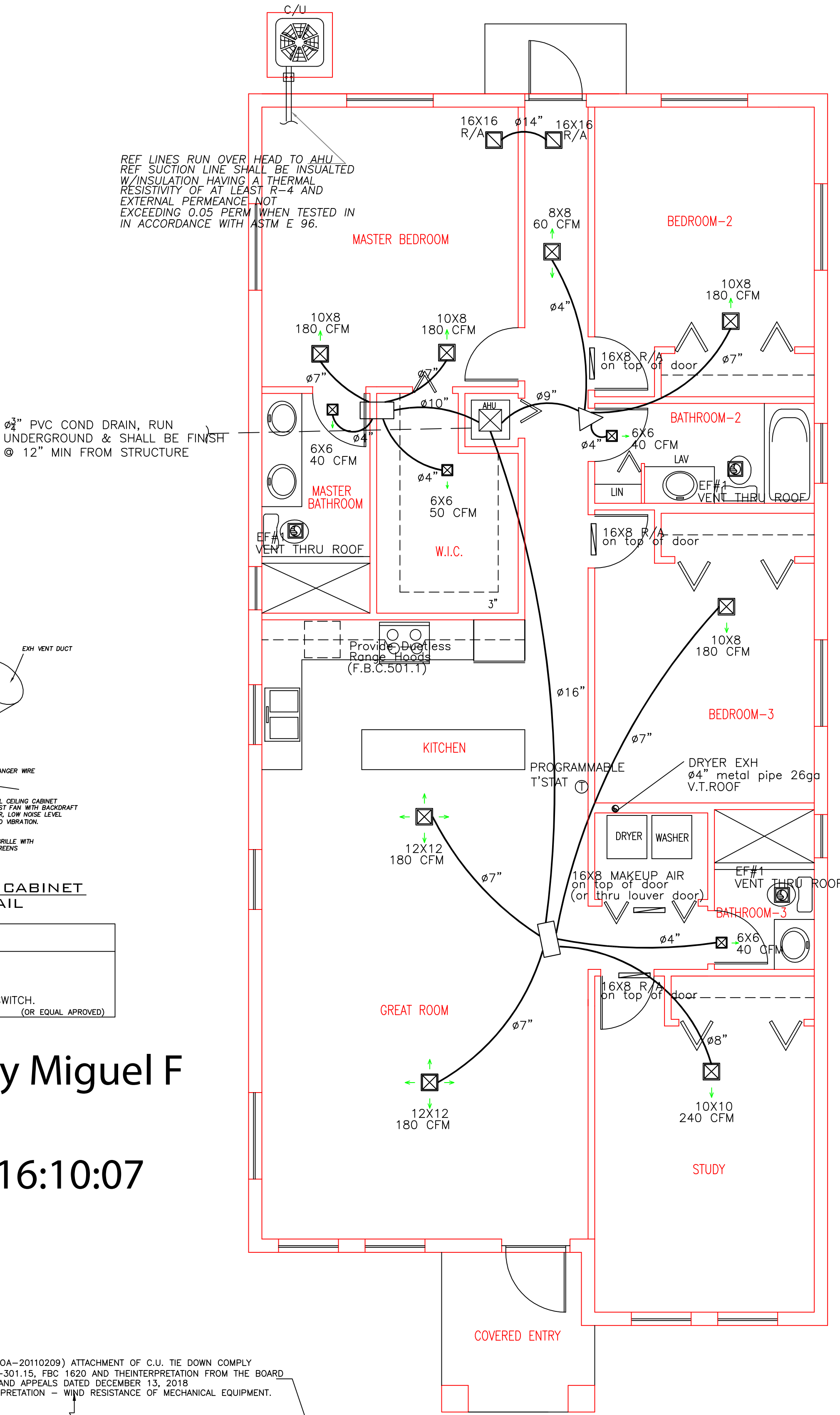
AHU CLOSET INSTALLATION N.T.S.



CONDENSING UNIT INSTALLATION DETAIL N.T.S.

NOTES:

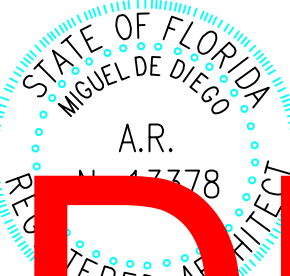
- REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING-TYPE TAMPER RESISTANT CAPS OR SHALL BE OTHERWISE SECURED TO PREVENT UNAUTHORIZED ACCESS. TO COMPLIANCE WITH THE FBC, R SECTION M1411.6.
- ALL EXPOSED REFRIGERANT PIPING INSULATION TO BE JACKETED OR PAINTED WITH AV PROTECTIVE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



MECHANICAL PLAN

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

9-19-2022



DRC
PZ23-12000051
12/20/2023

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NO.	DATE	REVISION

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