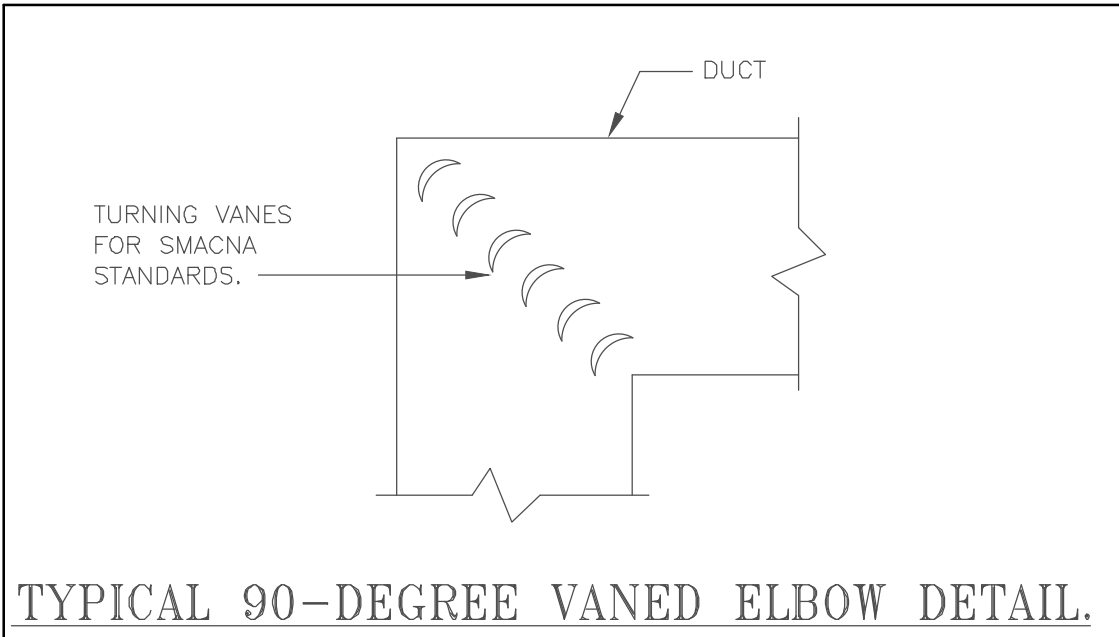
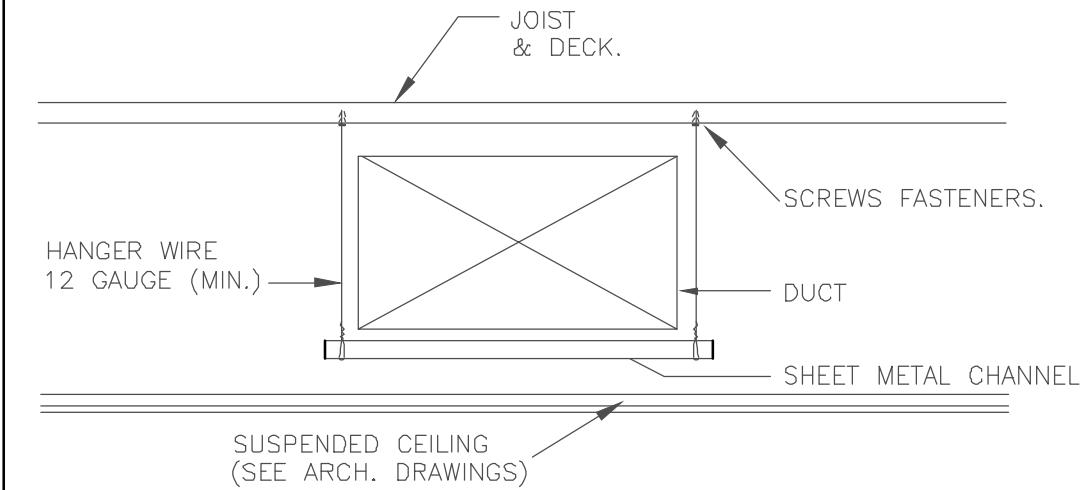


SPLIT AC UNIT SCHEDULE					
INDOOR UNIT DESIGNATION		AHU-1 & AHU-4	AHU-2	AHU-3	
AREA SERVED		SEE PLAN	SEE PLAN	SEE PLAN	
LOCATION		A/C CLOSET	A/C CLOSET	A/C CLOSET	
OPERATING WEIGHT, LBS		207	207	210	
DESIGN MANUFACTURER		CARRIER	CARRIER	CARRIER	
MODEL NUMBER		FX4DNF037	FE4ANB006	FJ4DNX060	
SEER2 / ---		16.5/-	18.0/-	15.5/-	
FAN SECTION	TOTAL AIR, CFM	2,000	1,600	1,400	
	VENT AIR, CFM				
	EXTERNAL STATIC PRESSURE, IN OF WATER	0.5	0.5	0.5	
	FAN MOTOR HP. (NON-OVERLOAD)	3/4-6.8 FLA	3/4-6.8 FLA	3/4-6.1 FLA	
	ELECTRICAL SERVICE AVAILABLE	230/1/60	230/1/60	230/1/60	
	MIN. CIRC. AMP	58.5	58.5	58.5	
CLG. COIL	MAX. CIRC. PROT.	60	60	60	
	FACE VELOCITY - FPM	---	---	---	
	DESIGN AIR ACROSS COIL, CFM	2,000	1,600	1,400	
	GRAN TOTAL CAPACITY, BTU/HR	58,000	46,600	42,400	
	TOTAL SENSIBLE CAPACITY, BTU/HR	44,900	36,000	34,200	
	ENTERING AIR TEMP., F°DB/WB	80/67	80/67	80/67	
FILTER	COIL MODEL NO.	---	---	---	
	TYPE & THICKNESS	CLEANABLE 1"	CLEANABLE 1"	CLEANABLE 1"	
	QUANTITY AND SIZE	AS PER MANUF.	AS PER MANUF.	AS PER MANUF.	
HEATER	FACE VELOCITY FPM. MAX.				
	HEAT COIL TYPE	ELECT.	ELECT.	ELECT.	
	ELECTRICAL SERVICE AVAILABLE	230/1/60	230/1/60	230/1/60	
AIR COOLED CONDENSING UNIT	HEATING, KW	10	10	10	
	STAGES & KW PER STAGE	1/10	1/10	1/10	
	OUTDOOR UNIT DESIGNATION	CU-1 & CU-4	CU-2	CU-3	
	TYPE OF FAN	PROP.	PROP.	PROP.	
	NO. OF FANS AND AMPS	1/ 1.4	1/ 1.2	1/ 1.52	
	AMBIENT AIR TEMP. F° DB	95	95	95	
	CONDENSING TEMP. F° DB	---	---	---	
	NO. OF COMPRESSORS/ TYPE	1/SCROLL	1/SCROLL	1/SCROLL	
	COMPRESSORS R.L.A./L.R.A. EACH	30.9/74	20.9/42	25.0/120	
	CAPACITY REDUCTION.	VARIABLE	VARIABLE	0-100	
	MIN. CIRC. AMP	40	35	32.8	
	MAX. CIRC. PROT.	60	50	50	
	ELECTRICAL SERVICE AVAILABLE	230/1/60	230/1/60	230/1/60	
	OPERATING WEIGHT, LBS	282	255	351	
	DESIGN MANUFACTURER	CARRIER	CARRIER	CARRIER	
	MODEL NUMBER	24VNA960-3	24VNA948-3	24VNO36	
	REFRIGERANT TYPE	410A	410A	410A	
	REFRIGERANT PIPE SIZE, SUCTION/LIQUID	7/8" - 3/8"	7/8" - 3/8"	7/8" - 3/8"	
NOTES:					
1. ALL THERMOSTATS SHALL BE CARRIER MANUFACTURER PROGRAMMABLE TYPE WITH HUMIDITY CONTROL.					
2. ALL FAN COIL UNITS SHALL BE PROVIDED WITH FACTORY INSTALLED CIRCUIT BREAKER.					
3. PROVIDE ALL COND. UNITS WITH SEACOAST PROTECTION ON COIL AND CASE.					
4. REFER TO MANUFACTURER SPECS FOR REFRIGERANT LINES REQUIRED SIZE AND ACCESSORIES.					

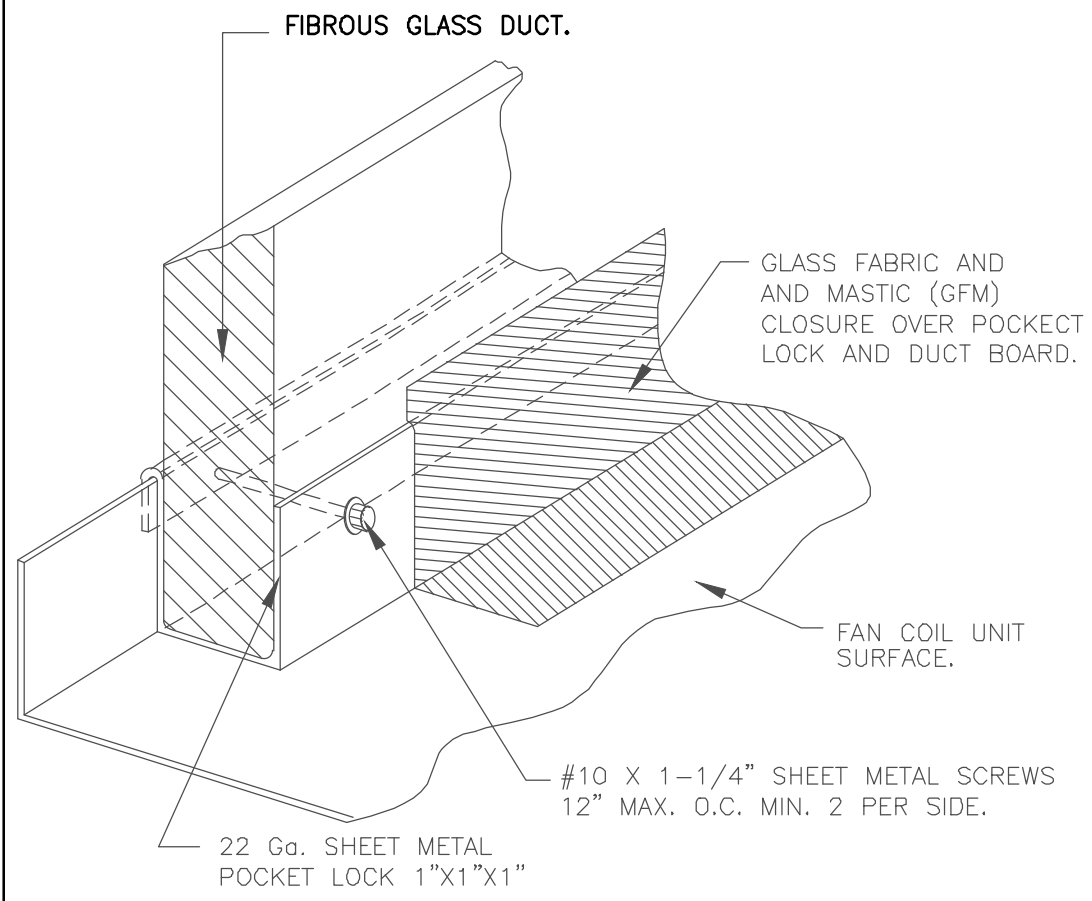
VENTILATION FAN SCHEDULE					
UNIT DESIGNATION		EF-1	EF-2	EF-3	EF-4
AREA SERVED		TOILET	MASTER BATHS	SAUNA	STORAGE
OPERATING WEIGHT, LBS		17	17	17	24
LOCATION		CEILING	CEILING	WALL	CEILING
FAN TYPE		CLG. BLOWER	CLG. BLOWER	CLG. BLOWER	CLG. BLOWER
FAN	TOTAL AIR, CFM	50	80	110	249
	DRIVE TYPE	DIRECT	DIRECT	DIRECT	DIRECT
	FAN WHEEL TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
	FAN TIP SPEED, FPM MAX.	---	---	---	---
	FAN SPEED, RPM	716	716	716	716
	TOTAL STATIC PRESSURE, IN OF WATER	0.1	0.1	0.1	0.1
	FAN MOTOR HP. (NON-OVERLOAD)	30.7 WATTS	30.7 WATTS	30.7 WATTS	85.6 WATTS
	FAN MOTOR STARTER TYPE	WALL SWITCH	WALL SWITCH	WALL SWITCH	WALL SWITCH
	STARTER FURNISHED BY	MC	MC	MC	MC
	ELECTRICAL SERVICE AVAILABLE	120-1-60	120-1-60	120-1-60	120-1-60
	MASONARY OPENING REQUIRED	---	---	---	---
	ZONES	0.3	0.3	0.3	0.3
ACCESSORIES	DESIGN MANUFACTURER	PANASONIC	PANASONIC	PANASONIC	L. COOK
	MODEL NUMBER	FV-0510VSC1	FV-0510VSC1	FV-0510VSC1	GC-422
	SERVICE SWITCH	YES	YES	YES	YES
	SMOKE DETECTOR (U.L. APPROVED)	NO	NO	NO	NO
	FIRE DAMPER	---	---	---	---
	CONSTRUCTION	ALUM/PLASTIC	ALUM/PLASTIC	ALUM/PLASTIC	ALUM/PLASTIC
	MULTIBLADE BACKDRAFT DAMPER	YES	YES	YES	YES
	BIRDSCREEN	NO	NO	NO	NO
	SOLID STATE SPEED CONTROL	NO	NO	NO	NO
	THERMOSTAT CONTROL	NO	NO	NO	YES
	FACTORY FABRICATED CURB	NO	NO	NO	NO
	FILTER AND FILTER FRAME	NO	NO	NO	NO



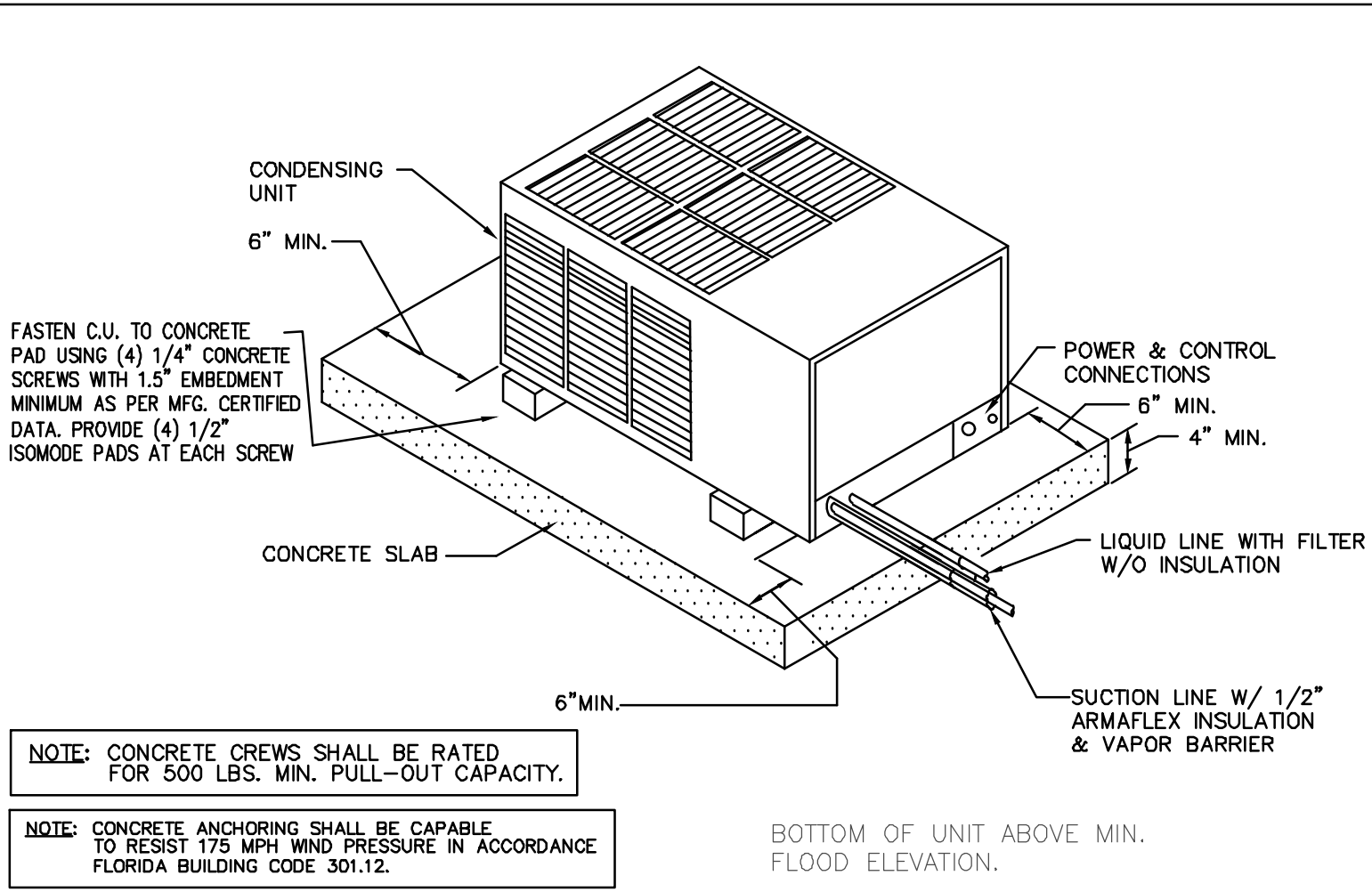
TYPICAL 90-DEGREE VANED ELBOW DETAIL.



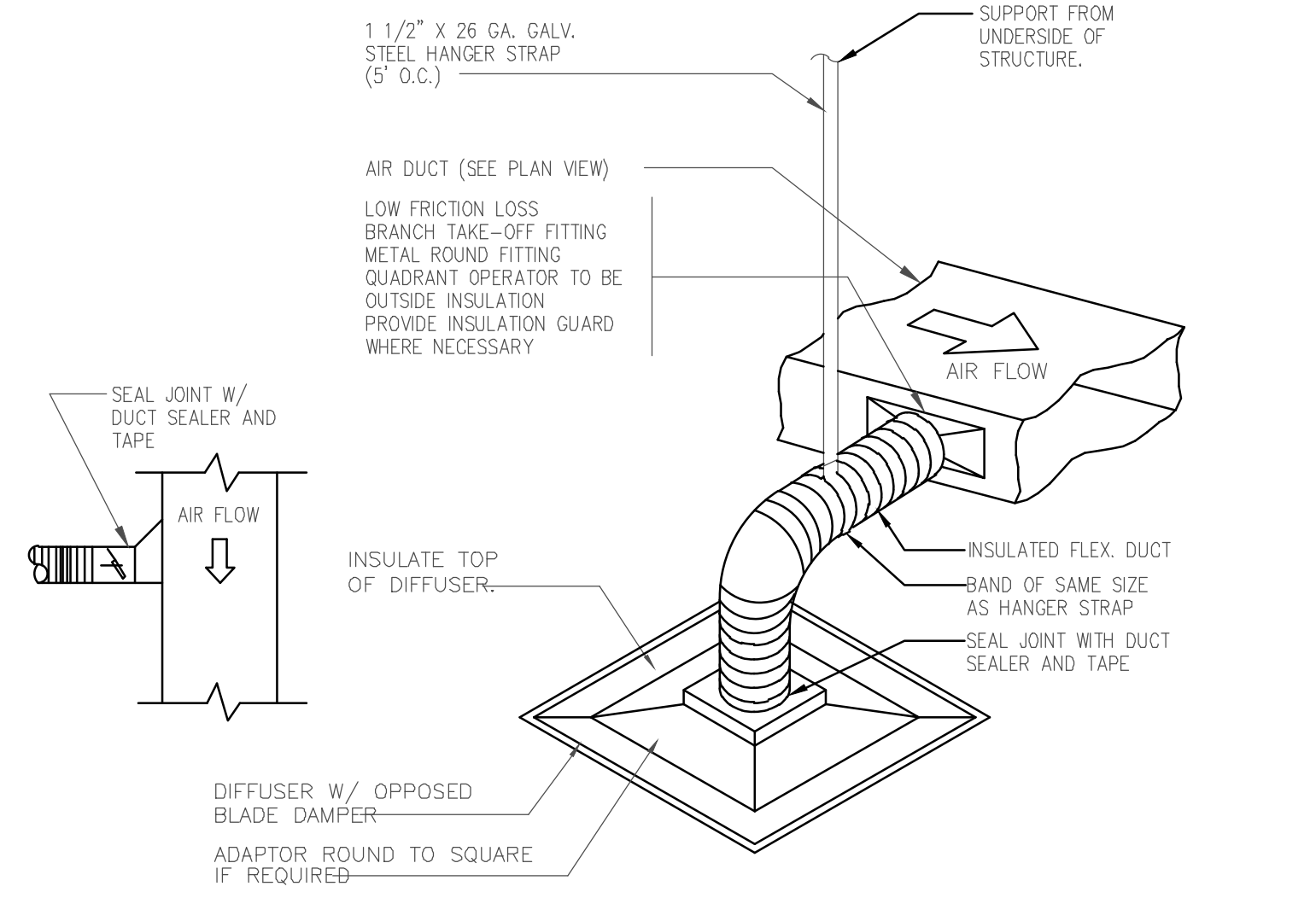
DUCT HANGER DETAIL
N.T.S.



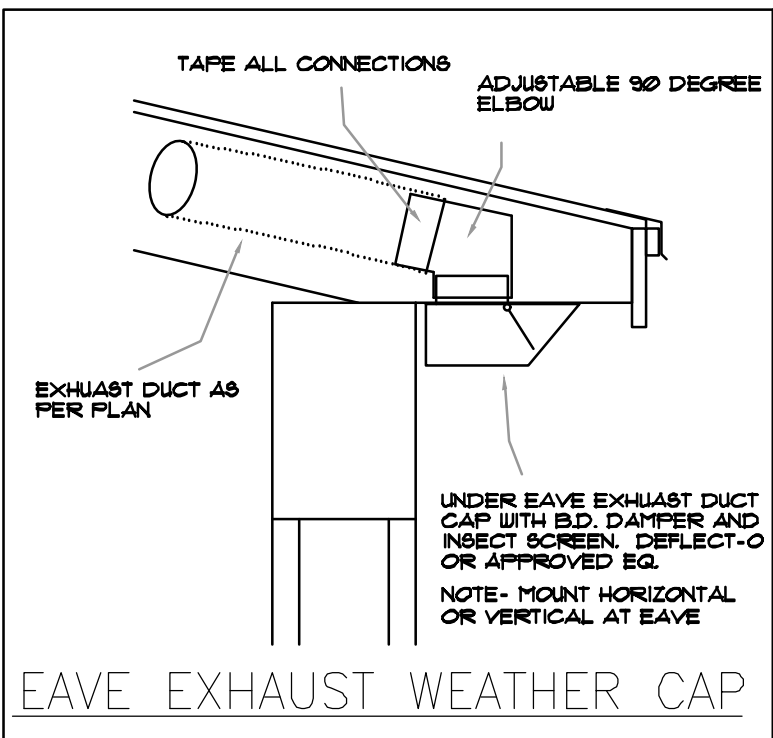
CONNECTION DETAIL
N.T.S.



CONDENSING UNIT MOUNTING DETAIL
N.T.S.



FLEXIBLE DUCT CONNECTION DETAIL
N.T.S.



EAVE EXHAUST WEATHER CAP

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

HEAT PUMP EQUIPMENT SCHEDULE		
F. A. N.	INDOOR UNIT DESIGNATION	AC-5
	AREA SERVED	SEE FL. PLAN
	TOTAL SUPPLY AIR	510
	OUTSIDE AIR	---
	EXTERNAL STATIC PRESS.	H ₂ O 0.4
	FAN MOTOR	MCA/FLA 2.63 / 2.1
	ELEC. CHAR.	V/ø/~ 230/1ø/60
	COOL. COIL. CAP.	MBTU/HR 18.0
	TOTAL SENS. CAP.	MBTU/HR 13.5
	ENT. AIR TEMP.	°F DB/°F WB 80 / 67
	MODEL NUMBER	---
	UNIT MANUFACTURER	MITSUBISHI
A. H. U. (COOLING COIL)	MODEL NUMBER	PEAD-A18AA9
	WEIGHT	LBS. 69
	REMARKS: REF. PIPING	RL/RV 3/8" / 5/8"
	HEATING CAP.	MBTU/HR 28
AIR COOLED CONDENSING UNIT	OUTDOOR UNIT DESIGNATION	CU-5
	LOCATION	SEE FL. PLAN
	AMBIENT TEMP.	°F 95
	REFRIGERANT	R410A
	COMP./COND. FAN	9 RLA/ 18 LRA /0.93 FLA
	MCA/MOCP	AMP 14/25
	ELEC. CHAR.	V/ø/~ 230/1ø/60
	MANUFACTURER	MITSUBISHI
	MODEL NUMBER	SUZ-KA18NA2
	WEIGHT	LBS. 190
	REMARKS	SEER2/HSPF2 22.0/11.2
	NOTES:	
1. PROVIDE ALL AHU'S WITH 7 DAYS PROGRAMMABLE THERMOSTAT.		
2. PROVIDE ALL AHU'S WITH BUILT IN DISCONNECT.		
3. A/C UNITS SHALL BE MANUFACTURED BY MITSUBISHI OR SIMILAR.		

AIR DISTRIBUTION SCHEDULE				
SIMBOL	USE	TYPE	ACCESORIES	DESIGN MANUFACTURER & MODEL Mo.
A	SUPPLY AIR	LINEAR DIFFUSER	O.B.D.	TITUS FL-10 (1 SLOT)
B	SUPPLY AIR	LINEAR DIFFUSER	O.B.D.	TITUS FL-20 (1 SLOT)
C	SUPPLY AIR	LINEAR BAR	---	TITUS CT-480 (4" WIDE)
R1	RETURN AIR	LINEAR BAR	---	TITUS CT-480 (4" WIDE)
R2	RETURN AIR	LINEAR BAR	---	TITUS CT-480 (6" WIDE)
R3	RETURN AIR	R/A GRILLE	---	56FL
L	VENTILATION	WALL LOUVER	---	POTTEROFF MODEL EDV-545-MD NOA No. 23-1215.15

- NOTES:
- ALL AIR DISTRIBUTION DEVICES SHALL BE ALL ALUMINUM CONSTRUCTION.
 - COORDINATE COLOR FINISH WITH ARCHITECT, WHITE BAKED ENAMEL STANDARD.
 - ARROWS INDICATE DIRECTION OF AIR DISTRIBUTION.
 - PROVIDE REMOTE YOUNG CONTROL ON ALL GRILLES FOR AIR BALANCE.
 - WALL LOUVER SHALL BE A MIAMI-DADE APPROVED LOUVER.

HVAC NOTES

1. GENERAL

All mechanical systems are to be installed in accordance with all applicable sections of the NFPA Standards, ANSI standards, 8th Edition of the Florida Building Code 2023, the local building code, noise & height ordinances, plans and specifications.

- DRAWINGS: Refer to all drawings for coordination of the HVAC work.
 - ARRANGE AND PAY for all permits/licenses, inspections and tests. Obtain the required certificates and present to owner.
 - GUARANTEE: The completed installation shall be fully guaranteed against defective materials and/or improper workmanship for a minimum of one year for material and labor. Compressors shall be guaranteed for a period of five years.
 - As built drawings shall be submitted to owner at the completion of project.
2. SHOP DRAWINGS: Contractors shall submit for approval, within 30 days after signing contract, a minimum of five copies of fully descriptive literature, including but not limited to: fans, air conditioning units, air outlets. No work shall proceed without approval of these submittals.

3. DESIGN PARAMETERS:

- Outdoor design temperature (Summer): 91°F DB and 79°F WB
- Outdoor design temperature (Winter): 45°F
- Indoor design temperature (Summer): 70°F DB
- Indoor design temperature (Winter): 68°F DB

4. ALL THERMOSTATS SHALL have heating mode maximum setting of 75 F, and cooling mode minimum setting of 70 F. The thermostat shall be arranged to prevent the simultaneous operation of heating and cooling.

5. ELECTRICAL CONTROLS AND POWER WIRING: Under electrical contract.

6. EQUIPMENT SPECIFIED BY manufacturer's number shall include all accessories, controls, etc., listed in the catalog as standard with the equipment. Optional or additional accessories shall be furnished as specified.
7. MATERIALS:

- REFRIGERANT PIPING: Shall be type L soft drawn, copper tubing, dehydrated for refrigerant use. Sized as shown on drawings or as per air conditioning equipment manufacturer's recommendations.
- INSULATION: Refrigerant suction piping shall be insulated with 1/2" thick foamed plastic insulation, fire retardant type. Insulation shall be installed in piping before assembly. No split insulation will be acceptable. Seal joints with manufacturer's approved adhesive and grey tape. The piping and fittings for Refrigerant vapor (suction) lines shall be insulated with insulation having a thermal resistivity of at least R-4 and having external surface permeance not exceeding 0.05 perm when tested in accordance with ASTM E96 to comply with FBCR Section M141.5.
- DUCTWORK:
 - All supply air ductwork shall be fiberglass ductboard, fabricated and installed as per latest edition of SMACTA "Fibrous Glass Duct Manual". 1-1/2" thick R-6.0 in uncond. space. 1" thick R-4.2 in cond. space.
 - All exhaust ductwork shall be galvanized sheet metal duct not lighter than 26 gage.
 - All duct dimensions are clear inside dimensions.
 - Flexible insulated ductwork with 1 1/2" thick fiberglass insulation with FRK vapor barrier, class I air duct, U.L. R-6.0 MIN.
 - Dryer ductwork: 26 ga. min. galvanized steel, having a smooth interior surface with joints running in the direction of airflow and without sheet metal screws or other fasteners in the air stream. Maximum length shall not exceed 25 feet. wall caps shall be provided with backdraft damper. Dryer exhaust wall cap is not to be provided with a screen as required by the FBCR-1502.3
 - Intake openings shall comply with 2023 Florida Mechanical Code Section 401.4.1 and the exhaust outlets comply with the Section 501.2.1.

8. Provide metal round fittings at all flexible duct connection to supply duct.

9. TEST AND BALANCE: Contractor shall test and balance all ventilation and air conditioning systems. Submit four copies of Test and Balance Report to owner for approval.

10. CONTROLS: Air conditioning units shall be started and stopped thru individual thermostat. Individual thermostats shall start/stop supply fans and activate cooling/heating systems as selected.
11. Mechanical plans in general, are diagrammatic in nature, and are to be read in conjunction with arch. Plumbing, electrical and structural plans and shall be considered as one set of documents. Duct and piping offsets, bends and transitions will be required to provide and install a complete functional system and shall be provided by the contractor at no additional cost to the owner.

12. Contractor shall verify job conditions prior to ordering, fabrication or installation of materials or equipment. Notify architect/engineer of any conflicts before fabrication.
13. Provision must be taken to prevent HVAC duct surface contact with the Foam insulation, either during application of after the foam dried up to prevent a voided listing of the A/C ductworks (both flexible and fiberglass duct board).

#26000522

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FERNANDA ROCA
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CASA PA' FERNANDA

NEW SINGLE-FAMILY RES.
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FILE NAME:

PROJECT NO:

2304

DRAWN BY:

JMM

CHECKED BY:

JMM

ISSUE DATE:

11/14/24

REVISIONS

SHEET TITLE

MECHANICAL NOTE
& DETAILS

SHEET:

OF:

M-200

1 MECHANICAL NOTES, SCHEDULES, AND DETAILS

SCALE: N.T.S.



PROJECT NORTH

JMM
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Certificate of Authorization #06902

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