

INDOOR UNIT DESIGNATION		AHU-1	AHU-2	AHU-3
OUTDOOR UNIT DESIGNATION		HP-1	HP-2	HP-3
AIR QUANTITIES			l	
TOTAL SUPPLY AIR	CFM	1,200	1,700	600
OUTSIDE AIR	CFM	45	45	20
HEATING AND COOLING CAPACITIES	•		•	•
TOTAL HEATING CAPACITY	втин	57,300	57,300	18,000
SENSIBLE COOLING CAPACITY	втин	42,975	42,975	13,500
TOTAL COOLING CAPACITY	втин	51,300	57,300	18,000
AIR TEMPERATURES				
COOLING COIL ENTERING	°Fdb-°Fwb	80-67	80-67	80-67
COOLING COIL LEAVING	°Fdb-°Fwb	55-54	55-54	55-54
HEATING COIL ENTERING AND LEAVING	°Fdb-°Fdb	52-95	52-95	52-95
INDOOR UNIT DATA	•			
EXTERNAL STATIC PRESSURE (INCL. FILTER)	IN. H2Ø	Ø.T	Ф.Т	Ø.T
BLOWER MOTOR	HP	3/4	3/4	3/4
ELECTRICAL CHARACTERISTICS	V/PH	208-230/1	208-230/1	208-230
CONDENSATE DRAIN SIZE	IN.	3/4"	3/4"	3/4"
FILTER LOCATION		UNIT	UNIT	UNIT
ELECTRIC HEAT DATA				
HEATING TYPE		ELECTRIC	ELECTRIC	ELECTRIC
LOCATION		SUPPLY	SUPPLY	SUPPLY
ACTUAL HEATING CAPACITY (NOMINAL CAP.)	KIII	10	10	3
VOLTAGE	V/PH	208-230/1	208-230/1	208-230
OUTDOOR UNIT DATA				
NUMBER OF COMPRESSORS/NUMBER OF STAGES	NO.	1	1	1
ELECTRICAL CHARACTERISTICS	√/ P H	208-230/1	208-230/1	208-230
MCAMOCP	AMPS (EACH)	26.7/45	39.2/60	12.2/20
UNIT WEIGHT	LBS.	325	325	154
REFRIGERANT TYPE		R-410A	R-410A	R-410A
REFRIGERANT SUCTION AND LIQUID LINE SIZES	ININ.	MFG.	MFG.	MFG.
SEER/SEER2		14.3/15	14.3/15	14/11.5
COP (HEATING)		-	-	-
HSPF (HEATING)		8.5	8.5	8.5
MANUFACTURER		ВОЗСН	воэсн	DAIKIN
MODEL NUMBER (INDOOR UNIT)		BVAØ36	BVAØ48	ASPTISD
MODEL NUMBER (OUTDOOR UNIT)		ВОНА36Н	BONA60H	DZI4SDI

1. ALL AHU'S TO BE VARIABLE SPEED WITH HUMIDITY CONTROL.

2. T'STAT TO BE HONEYWELL VISION PRO 8000 TYPE WITH HUMIDITY CONTROL.

3. PROVIDE SINGLE POINT OF POWER. 4. PROVIDE 2" FILTER & RACK.

5. MANUFACTURE TO PROVIDE TRANSFORMER FOR ELECTRIC HEATERS.

6. PROVIDE LONG LINE ACCESSORY FOR REFRIGERANT LINE IF NEEDED. 1. PROVIDE CONDENSATE PUMP FOR ALL AHU'S.

8. REFER TO MANUFACTURE FOR INSTALL AND SERVICE CLEARANCE.

MECHANICAL GENERAL NOTES

SUBJECT TO THE NON TECHNICAL SPECIFICATIONS. THIS ALL WORK SHALL CONFORM WITH ALL LOCAL AND STATE ORDINANCES OR REGULATIONS GOVERNING THE SECTION APPLIES TO ALL AIR CONDITIONING, SHEETMETAL, INSTALLATION OF SUCH EQUIPMENT. IF WORK, AS LAID OUT, PIPING. AND AUTOMATIC TEMPERATURE CONTROLS WORK. INDICATED OR SPECIFIED IS RECOGNIZED TO BE 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR CONTRARY TO OR CONFLICTING WITH LOCAL ORDINANCES TO COORDINATE HIS WORK WITH THAT OF OTHER TRADES. OR REGULATIONS, THE CONTRACTOR SHALL REPORT SAME SEE ARCHITECTURAL SECTIONS FOR A DESCRIPTION OF TO THE ENGINEER BEFORE SUBMITTING A BID. THE ENGINEER WORK AND SEQUENCE OF CONSTRUCTION. THE DRAWINGS WILL THEN ISSUE INSTRUCTIONS AS TO PROCEDURE. IF CONTRACTOR FAILS TO NOTIFY THE ENGINEER OF CONFLICTS ARE ESSENTIALLY DIAGRAMMATIC IN NATURE. THEY ARE, HOWEVER, AS ACCURATE AS SCALE PERMITS AND THE OR OMISSIONS NOTED ABOVE, ALL CHANGES REQUIRED TO CONTRACTOR SHALL FOLLOW THEM AS CLOSELY AS COMPLY WITH ORDINANCES AND REGULATIONS SHALL BE POSSIBLE. IT SHALL BE THE RESPONSIBILITY OF THE MADE WITHOUT ADDITIONAL EXPENSE TO THE OWNER. CONTRACTOR TO VERIFY ALL CONDITIONS RELATING TO THE WORK IN THE FIELD PRIOR TO PROCEEDING WITH THE WORK.

I. THE WORK DESCRIBED HEREINAFTER SHALL BE INSTALLED

THE CONTRACTOR SHALL VERIFY ALL WALLS, PARTITIONS,

FABRICATION OF ANY DUCTWORK OR PIPING SYSTEMS. ALL

OFFSETS REQUIRED FOR INSTALLATION OF DUCTWORK, OR

PIPING SHALL BE INCLUDED IN THE SCOPE OF WORK AT NO

ADDITIONAL COST TO THE OWNER. THE ENGINEER SHALL BE

3. ALL MATERIALS SHALL BE NEW AND OF BEST QUALITY

MANUFACTURERS. MATERIALS AND EQUIPMENT SHALL BE

PROPERLY STORED AND PROTECTED FROM THE WEATHER

UNNECESSARY CORROSION AND FOULING. ALL WORK SHALL

CONSIDERED INCOMPETENT OR UNFIT FOR WORK ON THIS

CONSTRUCTION PROJECT SHALL BE PROMPTLY REMOVED

4. THE WORK SHALL COMPLY WITH ALL APPLICABLE CODES,

REGULATIONS, ORDINANCES, ETC., WHETHER FEDERAL, STATE

OR LOCAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR

SECURING ANY PERMITS AND PAYING ANY FEES REQUIRED IN

AND STRUCTURAL SYSTEMS BEFORE INSTALLATION AND

THE SOLE INTERPRETER OF THE DRAWINGS.

AND SHALL BE THE PRODUCTS OF REPUTABLE

AT ALL TIMES DURING CONSTRUCTION TO PREVENT

BE DONE IN A NEAT AND WORKMANLIKE MANNER BY

SKILLED AND COMPETENT MECHANICS. ANY WORKER

BY THE CONTRACTOR UNDER THE DIRECTION OF THE

5. THE CONTRACTOR IS REQUIRED TO ATTEND ALL

PERFORM THE WORK OF SUCH ITEMS, IN A MANNER

LOCATION OF THE SEVERAL PARTS OF THE WORK.

6. ALL CUTTING AND PATCHING SHALL BE DONE BY

AND SMOOTH AND SHALL MATCH EXISTING ADJOINING

7. SEE GENERAL REQUIREMENTS FOR ELECTRICITY AND

8. ALL FINISHED FIELD INSTALLED PRESSURE PIPING

TOOLS, EQUIPMENT, TRANSPORTATION, SCAFFOLDING,

TERMS AND CONDITIONS OF THE CONTRACT. THE

EXPERIENCED GENERAL SUPERINTENDENT AND EXPERIENCED SUPERINTENDENT FOR EACH TRADE

SERVICES, SUPERVISION, PLANT, AND PERFORMING ALL

OPERATIONS REQUIRED TO PROPERLY COMPLETE ALL

INDICATED ON THE APPLICABLE DRAWINGS, SUBJECT TO

CONTRACTOR IS REQUIRED TO HAVE A QUALIFIED AND

WATER. THE MECHANICAL CONTRACTOR IS RESPONSIBLE

FOR FURNISHING ALL FUEL REQUIRED FOR THE OPERATION

9. WORK CONSISTS OF FURNISHING ALL LABOR, MATERIALS,

WORK IN ACCORDANCE WITH THESE SPECIFICATIONS AND AS

@ 73°F and 60%RH

4.79 Pints/kWh

2.27 L/kWh

55 Pints / 6.875 Gallons

' Plug Type B

(USA, MEX, CAN, JPN)

BE AS THOUGH REQUIRED IN ALL.

OF HIS CONSTRUCTION EQUIPMENT.

SYSTEMS SHALL BE TESTED.

@ 80°F and 60%RH

150 CFM @ 0.0" WG

140 CFM @ 0.2" WG

130 CFM @ 0.4" WG

Up to 1,800 Sq. Ft. / 18,000 Cu. Ft.

580 watts @ 80°F and 60% RH

8" Round Inlet, 8" Round Outlet

3/4" Threaded Female NPT

115 volt – 1 phase – 60 Hz

9', 115 VAC, Ground

5.0 Pints/kWh

2.4 L/kWh

70 Watts

5.1 amps

15 Amps

55 lbs.

R410A, 15 oz.

12"W x 12"H x 28"D

Operating Temperature 49°F Min., 95°F Max.

70 Pints / 8.75 Gallons

SURFACES.

▶ DH-1

Water Removal

Efficiency

Blower

Fan

Sizing

Power

Energy Factor

ELECTRICAL

Circuit Requirement

Duct Connections

Drain Connection

Unit Dimensions

Refrigerant

Unit Weight

SPECIFICATIONS

Supply Voltage

Current Draw

Power Cord

PERFORMANCE

CONSTRUCTION CONFERENCES INCLUDING THE PRE-BID

CONFERENCE, THE PRE-CONSTRUCTION CONFERENCE AND

THE OWNER'S PROGRESS MEETINGS AS SCHEDULED BY THE

ARCHITECT OR THE OWNER. FAILURE TO MAKE REFERENCES

IN THE SPECIFICATIONS TO ANY ITEMS OF THE WORK SHOWN

BY THE DRAWINGS, AND NECESSARY TO THE COMPLETION

THE FULL RESPONSIBILITY TO FURNISH THE MATERIALS AND

WHICH DETAILED SPECIFICATIONS ARE INCLUDED. DRAWINGS

OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR OF

COMPARABLE TO OTHER ITEMS OF SIMILAR NATURE FOR

AND SPECIFICATIONS ARE INTENDED TO CLEARLY SET

FORTH ALL WORK, AND THE DETAILED DESCRIPTION IS

ADDED TO ASSIST IN ESTABLISHING THE SCOPE AND THE

COLLECTIVELY, THEY SHALL GOVERN AND CONTROL THE

SCOPE, CHARACTER AND DESIGN OF THE WORK, AND ANY

ITEM CALLED FOR IN ANY ONE OF THE DOCUMENTS SHALL

WORKMEN SKILLED IN THE TRADES INVOLVED. ALL CUTTING

OR DAMAGE FACILITIES. ALL PATCHING SHALL FINISH FLUSH

SHALL BE DONE IN SUCH A MANNER AS NOT TO ENDANGER

ORDER TO PROCEED WITH THE WORK.

10. THE LATEST EDITIONS OF THE ESTABLISHED STANDARDS OF THE FOLLOWING ORGANIZATIONS, AND INDIVIDUAL STANDARDS NAMED SHALL BE FOLLOWED THE SAME AS IF THEY WERE FULLY WRITTEN HEREIN AND CONSTITUTE A PART OF THE SPECIFICATION REQUIREMENTS EXCEPT WHERE OTHERWISE SPECIFIED:

INVOLVED ON THE JOB WHEN ANY WORK IS IN PROGRESS.

. FLORIDA BUILDING CODE, 2023 8TH EDITION. 2. FLORIDA PLUMBING CODE, 2023 8TH EDITION. 3. FLORIDA MECHANICAL CODE, 2023 8TH EDITION. 4. NFPA 70, NATIONAL ELECTRICAL CODE 5. NFPA 101, LIFE SAFETY CODE 6. NFPA 90A, STANDARD FOR THE INSTALLATION OF AIR

CONDITIONING AND VENTILATION SYSTEMS 1. NFPA 91, STANDARD FOR THE INSTALLATION OF BLOWER AND EXHAUST SYSTEMS 8. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS.

THE FOREGOING RULES, STANDARDS, REGULATIONS, SPECIFICATIONS, RECOMMENDATIONS AND REQUIREMENTS SHALL BE FOLLOWED BY THE CONTRACTOR AS MINIMUM REQUIREMENTS. THEY SHALL NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING HIGHER GRADES OF MATERIALS AND WORKMANSHIP WHICH ARE SPECIFIED HEREIN OR INDICATED ON THE DRAWINGS.

11. THE INTERIOR FACE OF DUCTWORK HOUSING SUPPLY. RETURN OR EXHAUST AIR DIFFUSERS, REGISTERS OR GRILLES SHALL BE PAINTED "FLAT-BLACK" SO WHEN VIEWED FROM BELOW AND ABOVE NOTHING BEYOND SURFACE OF AIR DEVICE IS VISIBLE.

12. THERMOSTAT/SENSOR WIRING TO BE RUN INSIDE WALLS/COLUMNS OR IN ATTIC SPACE. THE USE OF WIREMOLD OR EXTERNAL RACEWAY SHALL BE APPROVED BY THE ENGINEER.

13. A COMPLETE CERTIFIED TEST AND BALANCE REPORT SHALL BE SUPPLIED BY AN INDEPENDENT CERTIFIED TEST AND BALANCE AGENCY TO THE ENGINEER IN WRITING PER AABC TEST AND BALANCE REPORT MANUAL (LATEST EDITION) PRIOR TO JOB ACCEPTANCE BY OWNER. THE REPORT SHALL BE SIGNED AND SEALED BY A REGISTERED ENGINEER IN THE STATE OF FLORIDA.

14. THE SUBMISSION OF A BID OR PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED HIMSELF/HERSELF WITH THE PLANS, SPECIFICATIONS AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND OR LABOR DUE TO DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED, UNLESS DIFFICULTIES COULD NOT HAVE BEEN FORESEEN EVEN THOUGH PROPER EXAMINATION HAD BEEN

15. ALL POWER WIRING, RELAYS, PANELS, TRANSFORMERS, DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL CONTROL WIRING, RELAYS, PANELS SENSORS (OR THERMOSTATS) SHALL BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR. ALL MOTOR STARTERS SHALL BE FURNISHED BY THE HYAC CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

16. ALL DUCTS TO HAVE AIR EXTRACTORS (ADJUSTABLE TYPE) ON SQUARE OR RECTANGULAR TAKEOFFS WITH SPIN-IN VOLUME DAMPERS ON ROUND OR OVAL TAKE-OFFS. SPIRAL DUCT TAKE-OFFS HAVE NO EXTRACTORS INSTALL FLEXIBLE DUCT CONNECTORS AT ALL FANS AND AIR HANDLING UNITS.

Capacity

Energy Factor kW-h

Airflow @ varying E.S.P.

(external static pressure - dry coil)

Dimensions (cabinet only)(3)

Voltage, phase,

frequency

Noise

Current draw(

Unit Weight

Shipping Weight

Inlet air operating

conditions during

17. FLEXIBLE DUCTS MUST COMPLY WITH UL 181 AND SHALL NOT EXCEED EIGHT FEET IN LENGTH: REMAINING BRANCH LINE SHALL BE GALVANIZED METAL WITH 2" EXTERNAL INSULATION. FLEXIBLE DUCTS SHALL HAVE FOIL BACKING

18. ANY CONDENSATION ON SURFACES OF HVAC EQUIPMENT, DUCTWORK OR PIPING WILL BE CORRECTED BY THE CONTRACTOR. WRAP WITH INSULATING TAPE OR EXTERNAL INSULATION HAVING A VAPOR BARRIER.

19. INSULATION OUTSIDE OF THE BUILDING SHALL BE WRAPPED WITH ALUMINUM. INSIDE ALL SUPPLY, RETURN, EXHAUST AND FRESH AIR DUCTS SHALL BE GALVANIZED METAL, COMPLETELY SEALED, FINISHED WITH 2" EXTERNAL INSULATION HAVING VAPOR, RETARDING JACKET (FSK TYPE). INSULATION SHALL COMPLY WITH UL 181 AND MUST HAVE FLAME SPREAD RATING OF 25 AND A SMOKE DEVELOPED RATING NO HIGHER THAN 50.

20. ROOM SENSORS OR THERMOSTATS SHALL BE MOUNTED AT 48 INCHES ABOVE FINISHED FLOOR.

21. THERMOSTATS TO BE 1 DAY PROGRAMMABLE WITH DIGITAL DISPLAY. PROVIDE AND INSTALL A LOCK BOX FOR ALL THERMOSTATS.

22. SMOKE DETECTORS (SEE DRAWINGS) SHALL BE IONIZATION TYPE AS APPROVED BY THE ENGINEER. COORDINATE THE INSTALLATION WITH THE ELECTRICAL CONTRACTOR CONTRACTOR SHALL VERIFY THAT DETECTORS ARE COMPATIBLE WITH FIRE ALARM SYSTEMS. IF UNIT SELECTION IS NOT COMPATIBLE THE CONTRACTOR SHALL PURCHASE AND INSTALL PROPER UNIT TO INSURE LIFE SAFETY PROTECTION SMOKE DETECTORS SHALL AUTOMATICALLY SOUND AUDIBLE ALARM AND TURNOFF

23. FURNISH AND INSTALL ACCESS DOORS(18"x18" MINIMUM) IN ALL DRYWALL CEILINGS FOR ACCESS TO MECHANICAL EQUIPMENT.

24. COORDINATE THE INSTALLATION OF ALL AUX. COND. DRAINS LOCATED IN WALLS WITH THE GENERAL CONTRACTOR COORDINATE THE INSTALLATION OF ALL MAIN COND. DRAINS LOCATED IN WALLS AND CHASES WITH THE PLUMBING CONTRACTOR.

25. THE CONTRACTOR SHALL NOT FABRICATE ANY AIR DISTRIBUTION DUCTWORK UNTIL IT HAS BEEN VERIFIED THAT SUFFICIENT CLEARANCES ARE AVAILABLE FOR THE INSTALLATION OF HYAC SYSTEMS CONSIDERING REQUIREMENTS FOR PIPING, LIGHT FIXTURES, CEILING SYSTEMS, FLOOR SYSTEMS, FOUNDATIONS, AND STRUCTURES. IF A CONFLICT ARISES CONTACT THE ENGINEER FOR PERMISSION IT REPOUTE SYSTEM. ALL DUCTWORK SHALL BE ROUTED AT THE EXPENSE OF THE CONTRACTOR.

26. DEVIATION FROM MATERIALS, METHODS, AND PROCEDURES SET FORTH HEREIN MUST BE APPROVED IN WRITING BY THE ENGINEER. APPROVAL WILL NOT BE GIVEN UNLESS THE ENGINEER IS SATISFIED THAT THE PROPOSED SYSTEMS ARE SUPERIOR IN PERFORMANCE, DURABILITY, LONGEVITY, AND RELIABILITY TO THAT SPECIFIED.

27. APPROVALS OF EQUIPMENT OR SYSTEMS OTHER THAN THAT SHOWN MUST BE WITHIN TEN (10) WORKING DAYS PRIOR TO BID DATE.

28. ALL DUCT AND PIPE SIZES SHOWN ARE CLEAR NET INSIDE DIMENSIONS

29. ALL AIR DISTRIBUTION DUCTWORK SHALL BE AIR TIGHT AND FREE OF LEAKS, AND SHALL BE INSPECTED FOR LEAKS PRIOR TO INSTALLATION OF FAN UNITS OR FINISHED FLOOR/CEILING SYSTEM. DUCTWORK SHALL BE SEALED WITH AIR DUCT SEALER PER SMACNA STANDARDS AND UL

30. EQUIPMENT, DUCTWORK, DAMPERS, LOUVERS, GRILLES, REGISTERS, DIFFUSERS, OTHER AIR DISTRIBUTIONS EQUIPMENT AND MATERIALS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING:

(A) ASHRAE (B) SBCCI (C) SMACNA

(J) ASME

(E) AMCA STANDARD HANDBOOK 99 (F) AIR DIFFUSION COUNCIL TEST CODE 1062R3 (G) SBCCI STANDARD MECHANICAL CODE (I) ANSI

@ 80°F/60%RH

@ 73°F/60% RH

@ 80°F/60% RH

@ 73°F/60% RH

0.0" w.c.

0.2" w.c.

0.4" w.c.

Dehumidification:

Ventilation:

⁽²⁾Rated capacity, energy factor and current draw measured at 80°F/60% RH inlet air at 0.0 ESP. Height does not include adjustable feet. The width excludes the filter doors and length excludes

Model E080CS

31. INSULATE ALL REFRIGERANT LINES WITH 3/4" ARMAFLEX OR EQUIVALENT INSULATION: PROVIDE WITH WEATHERPROOF ALUMINUM JACKET ON LINES OUTSIDE.

32. ALL MATERIALS SHALL BE LISTED BY THE UNDERWRITERS LABORATORIES (UL) OR NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA).

33. REFRIGERANT PIPING SHALL BE SIZED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR LIQUID, VAPOR HORIZONTAL AND

34. TUBING SHALL BE INSTALLED WITH MOISTURE INDICATOR SIGHT GLASS LOCATED IN THE LIQUID LINE ADJACENT TO THE OUTDOOR UNIT

35. THOROUGHLY CLEAN REFRIGERANT PIPE FITTINGS BEFORE ASSEMBLY. ALL JOINTS ARE TO BE MADE WITH SILVER ALLOY BRAZE MELTING ABOVE 1100 DEGREES F. NO ACID FLUX IS TO BE USED ON ANY JOINT.

36. ALL CONDENSATE DRAINS SHALL TERMINATE INTO ROOF GUTTER. SECURE TO ROOF SEAMS WITH APPROVED CLIP.

37. ALL WORK AND MATERIALS SHALL BE WARRANTED (PARTS AND LABOR) FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER. AN ADDITIONAL WARRANTY (PARTS ONLY) SHALL INCLUDE 4 YEARS ON ALL COMPRESSORS, WITH NINE YEARS ON ALL HEAT EXCHANGERS.

38. CONTRACTOR SHALL SUPPLY, TO THE ENGINEER, 6 SETS OF SUBMITTALS ON THE FOLLOWING ITEMS:

AIR DISTRIBUTION (DIFFUSER, GRILLE AND REGISTERS) B. HEATING/AIR CONDITIONING EQUIPMENT DAMPERS

INSULATION MATERIALS

CONTROLS G. PIPING

FANS

NOTE: THESE ITEMS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONTRACTOR ORDERING.

39. ALL FEES, PERMITS, TAPS, LICENSE, INSURANCE, AND BONDS SHALL BE PAID BY THIS CONTRACTOR FOR ALL RELATED WORK.

40. ROUTE REFRIGERANT PIPING AS SHOWN ON DRAWINGS. MANUFACTURE TO SIZE REFRIGERANT PIPING.

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FEATURES

Built-in digital control with top or front

Top or end air discharge orientation

• 3/4" PVC adapters for drain connection with adapters for threaded connection or plastic

10' drain tubing

5-year warranty

SPECIFICATIONS DH-2

80 ppd

65 ppd

2.8 L/KW-h

2.35 L/KW-h

185 CFM

135 CFM

85 CFM

50°F--104°F, 40°F

40°F–140°F,

0%_99% RH

(non-condensing)

dew point min.

120 VAC, 1 phase, 60 Hz

4.8 Amps

45 dBA ducted

Width: 14", Height: 15", Length: 26"

63 lbs.

81 lbs.

mounting options

• 40' crawlspace alert cable with LED light

• ½" EPS cabinet insulation

 Washable MERV 8 filter (part number 5881) and 10" diameter inlet/outlet duct collars

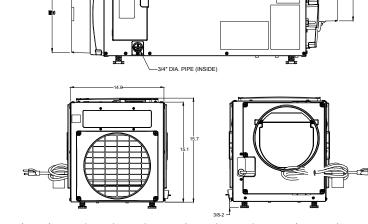
R32 refrigerant

Corrosion-resistant aluminum coils

 8' power cord (plug type); field-configurable hardwire option is available

• 10°F-30°F discharge air temperature rise

hose included



RETREAT MAIN HOUSE

MARTHA'S

2023-101 Drawn By: RPW Checked By: RPW Project #

Winton Engineering, P.A.

Robin Winton, P.E.

2207 WOODBINE DR.

TALLAHASSEE, FL 32309 850-894-5376

FL *56206

ROBIN WINTON, STATE OF FLORIDA,

ON THE DATE INDICATED HERE.

PROFESSIONAL ENGINEER. LICENSE NO

56206. THIS ITEM HAS BEEN DIGITALLY

SIGNED AND SEALED BY ROBIN WINTON

PRINTED COPIES OF THIS DOCUMENT

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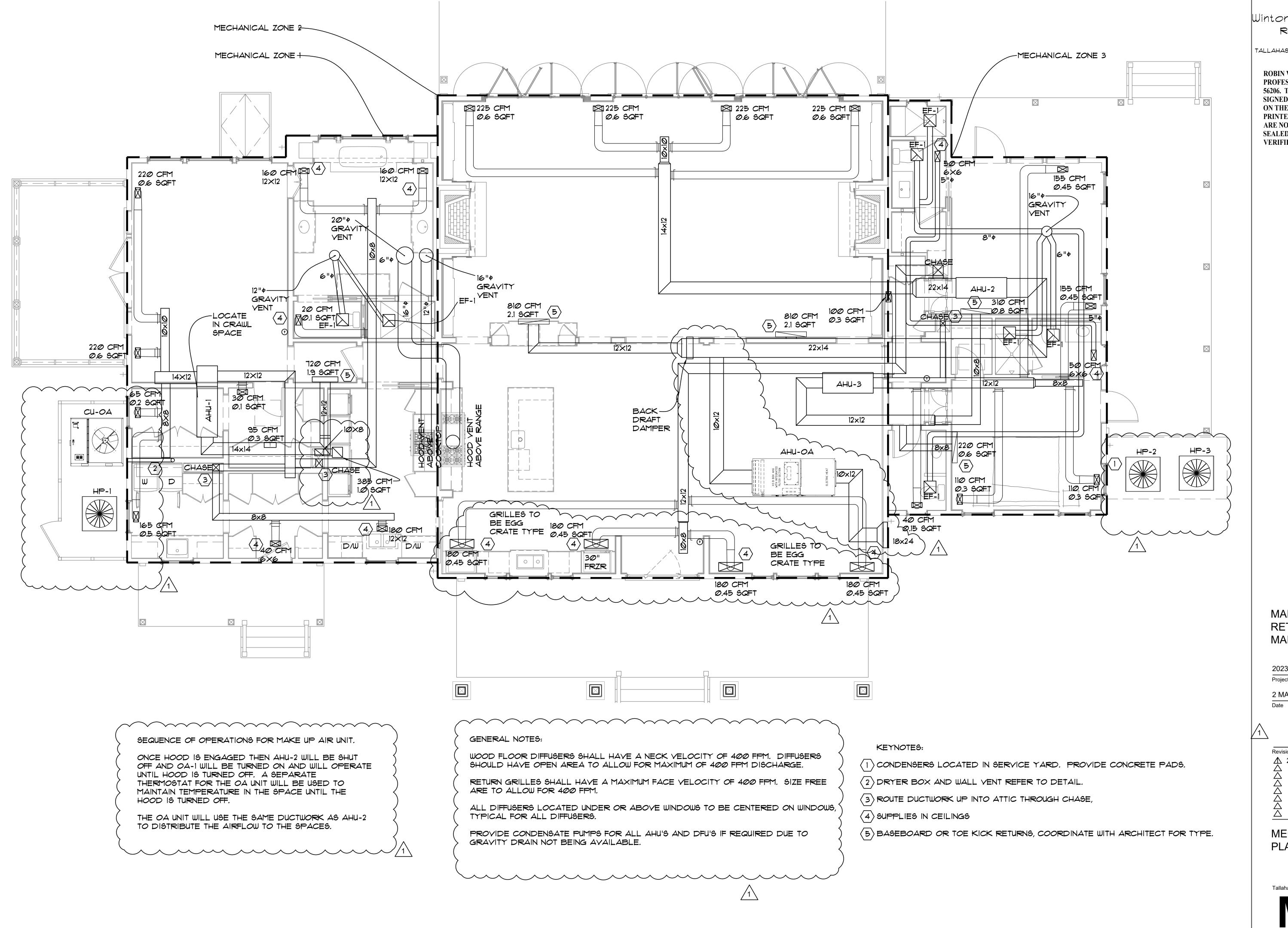
2 MAY 2024

▲ 2/11/25 CHANGES

MECHANICAL NOTES

2207 WOODBINE DR, TALLAHAASEE, FL 32309

Phone 850 567-2019



Winton Engineering, P.A Robin Winton, P.E. 2201 WOODBINE DR.

2201 WOODBINE DR.
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MARTHA'S RETREAT MAIN HOUSE

2023-101	Drawn By:	RPW
Project #	Checked By:	RPW

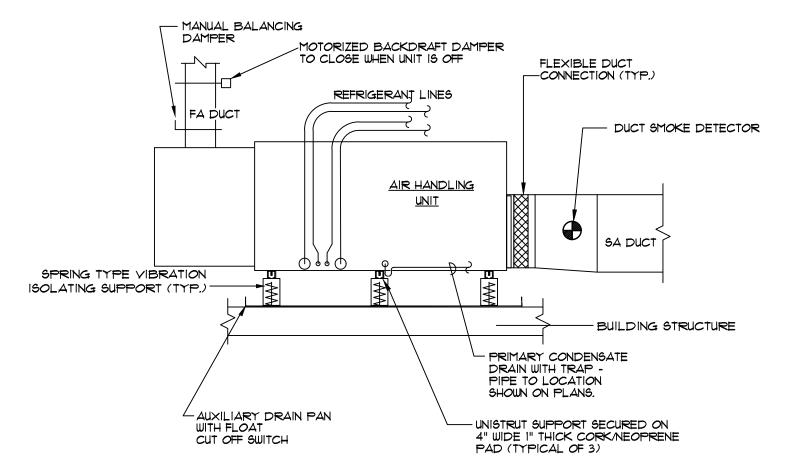
2 MAY 2024

MECHANICAL PLAN

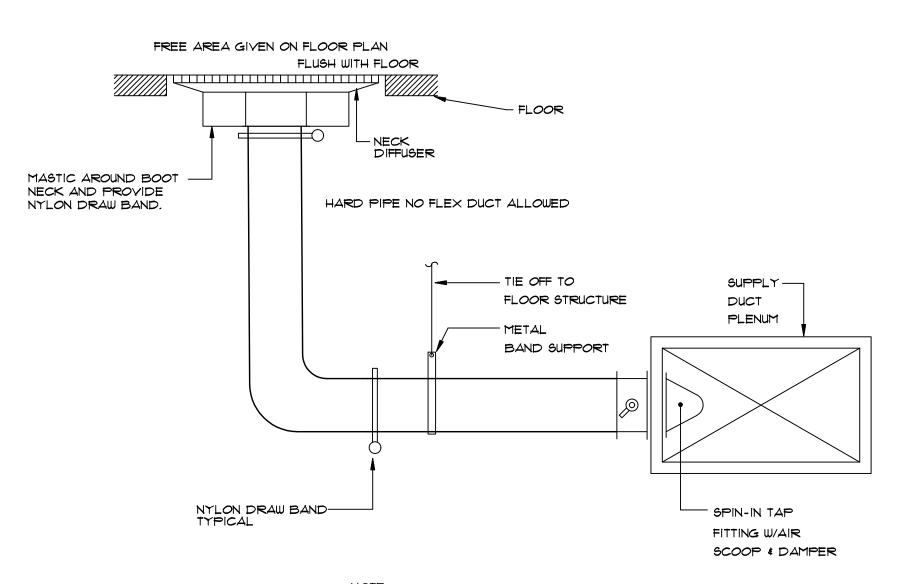
Tallahassee Florida

MOODDINE DE TALLAHASEE EL 20200

Phone 850 567-2019

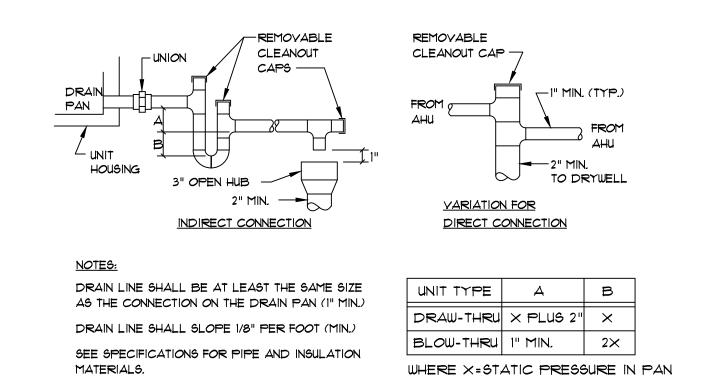


HORIZONTAL AIR HANDLING UNIT

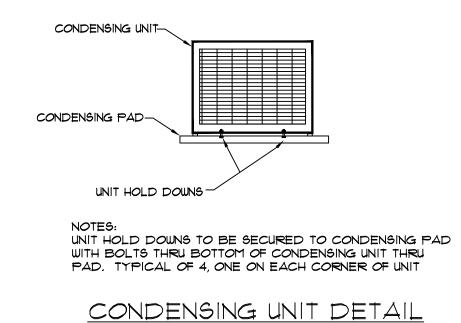


FOR EXACT TAKE OFF SIZES REFER TO SCHEDULE

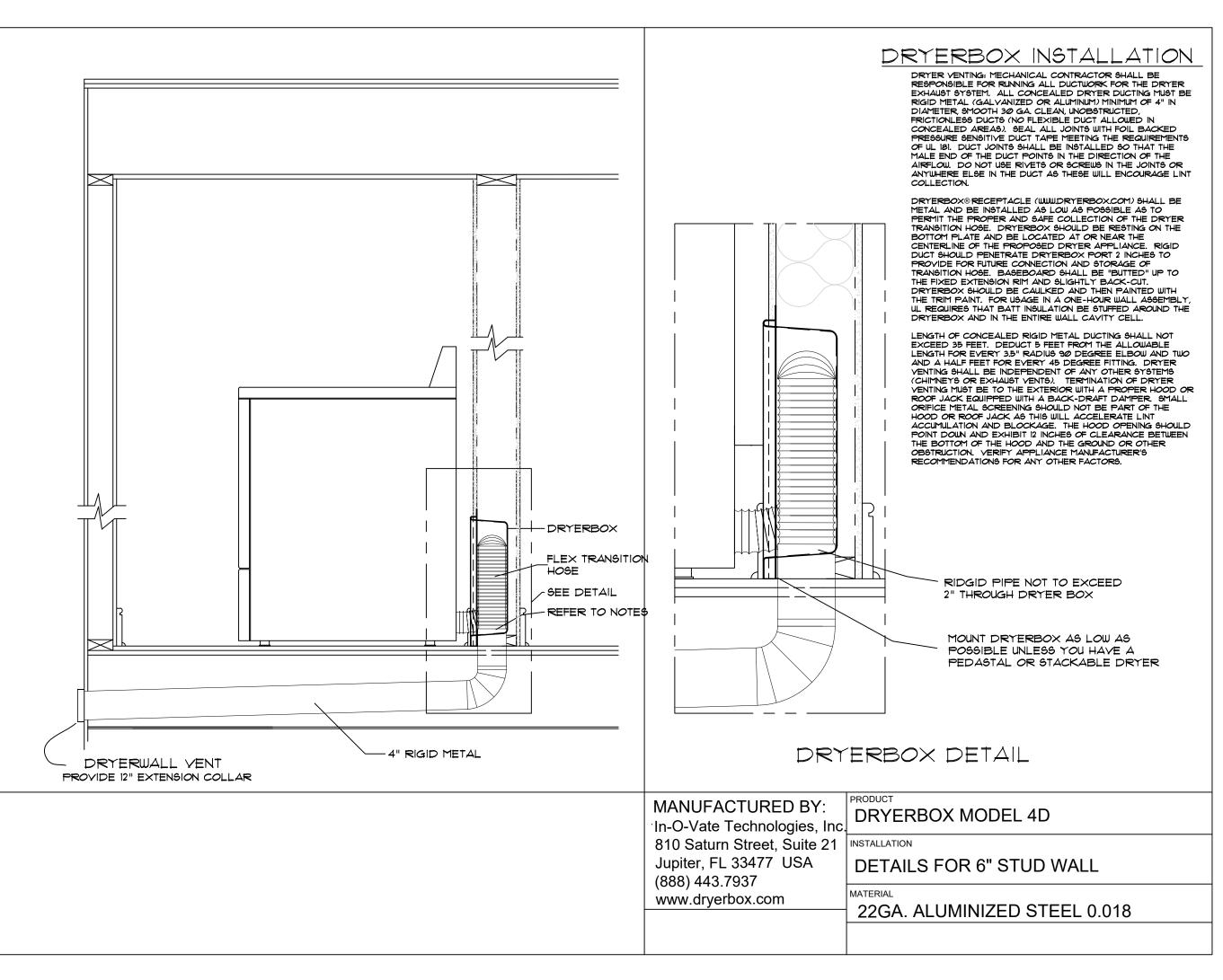
SUPPLY AIR DIFFUSER DETAIL

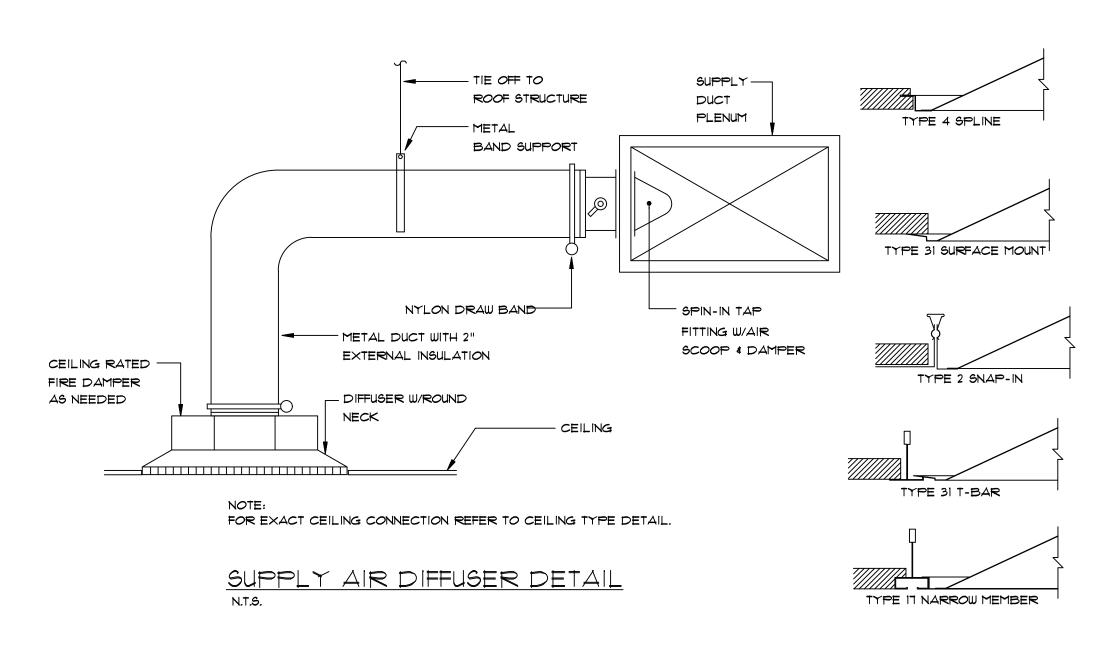


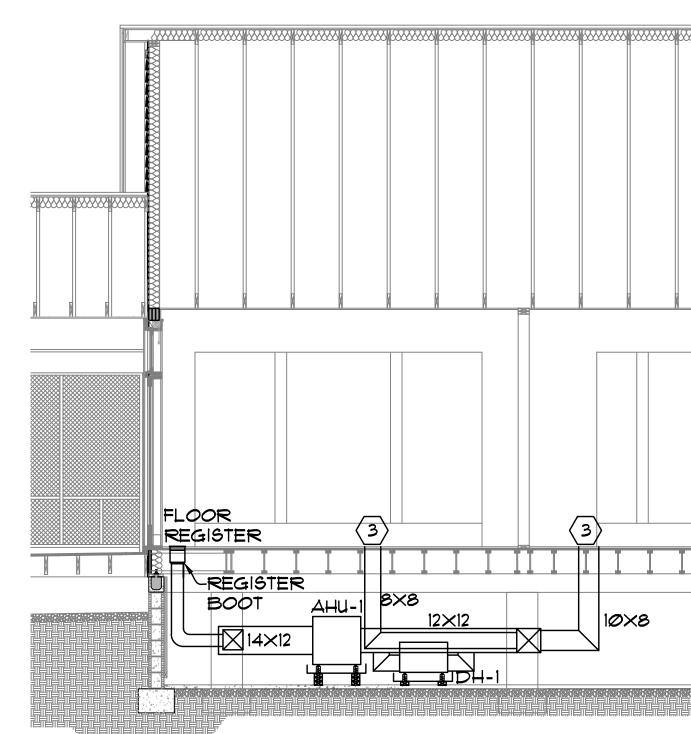
CONDENSATE DRAIN DETAIL



WITH HOLD DOWNS

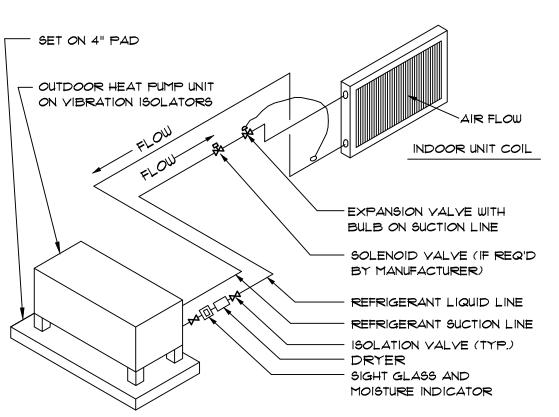






MECHANICAL CRAWLSPACE PLAN(TYP)

SCALE 1/4" = 1'0"



NOTES: 1. INSULATE SUCTION LINE.

- 2. PITCH ALL HORIZONTAL SUCTION PIPING A MINIMUM OF 1/2" IN 10 FEET IN DIRECTION OF FLOW.
- 3. EQUIPMENT MANUFACTURER SHALL DETERMINE THE REFRIGERANT PIPE SIZES. PROVIDE SOLENOID VALVE, ACCUMULATOR AND OTHER REFRIGERANT SPECIALTIES AS RECOMMENDED BY THE MANUFACTURER.
- 4. WHERE REFRIGERANT PIPING IS NOT SHOWN, ROUTE AS DIRECTLY AS POSSIBLE FROM OUTDOOR UNIT ABOVE GRADE THRU WALL OF MECHANICAL ROOM TO AHU.

REFRIGERANT PIPING SCHEMATIC-SPLIT SYSTEM HEAT PUMP

N.T.S.

GENERAL NOTES:

WOOD FLOOR DIFFUSERS SHALL HAVE A NECK VELOCITY OF 400 FPM. DIFFUSERS SHOULD HAVE OPEN AREA TO ALLOW FOR MAXIMUM OF 400 FPM DISCHARGE.

RETURN GRILLES SHALL HAVE A MAXIMUM FACE VELOCITY OF 400 FPM. SIZE FREE ARE TO ALLOW FOR 400 FPM.

ALL DIFFUSERS LOCATED UNDER OR ABOVE WINDOWS TO BE CENTERED ON WINDOWS, TYPICAL FOR ALL DIFFUSERS.

Robin Winton, P.E.

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Winton Engineering, P.A.

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MARTHA'S RETREAT MAIN HOUSE

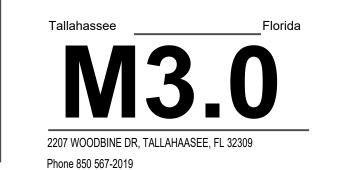
2023-101 Drawn By: RPW
Project # Checked By: RPW

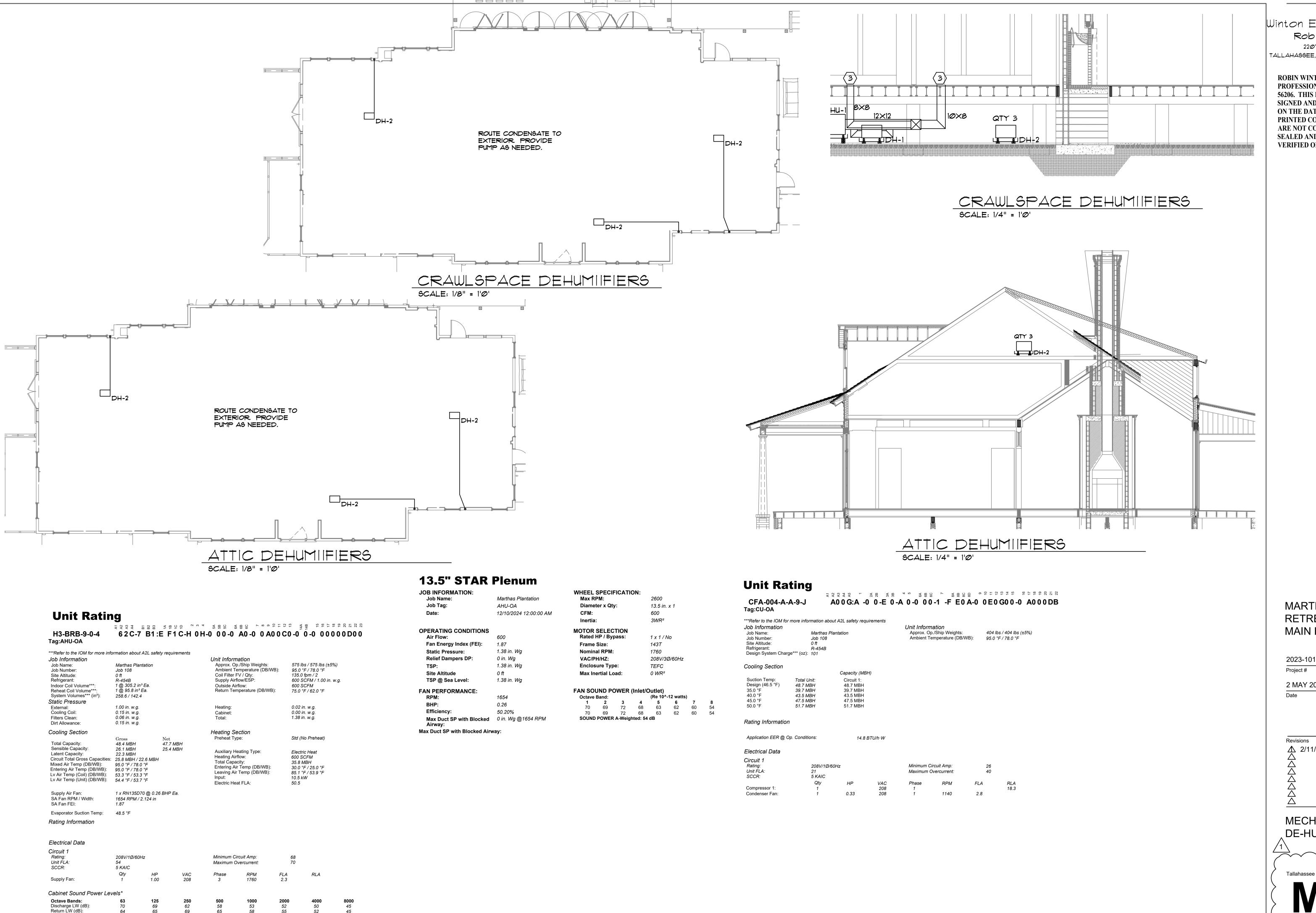
2 MAY 2024
Date

Revisions

\(\rightarrow \)

MECHANICAL DETAILS





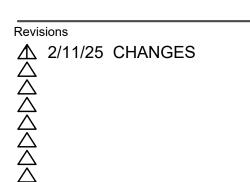
Winton Engineering, P.A Robin Winton, P.E. 2201 WOODBINE DR. TALLAHASSEE, FL 32309 850-894-5376

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FL *56206

MARTHA'S RETREAT MAIN HOUSE

2023-101	Drawn By: RPW
Project #	Checked By: RPW
2 MAY 2024	
Date	



MECHANICAL DE-HUMIDIFIERS

Tallahassee Florida

2207 WOODBINE DR, TALLAHAASEE, FL 32309

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